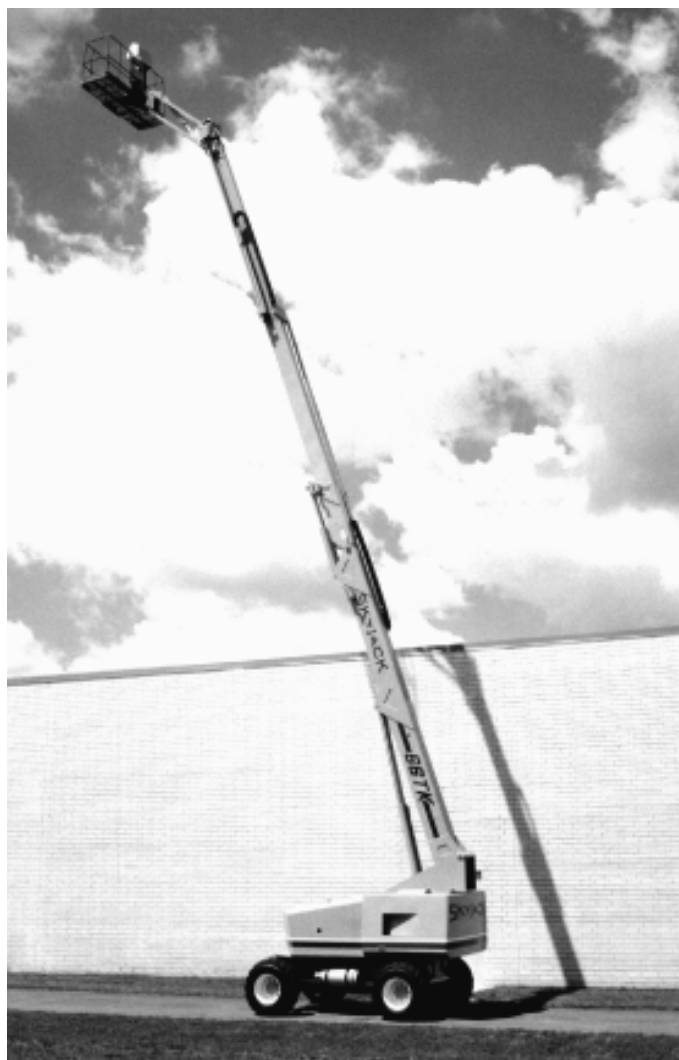


SKYJACK™

OPERATING MAINTENANCE & PARTS MANUAL

Model SJB-66TK, Serial Numbers 93198 and Above.



SJB-66TK BOOM

For Service in North America and Asia please call 800 275-9522

Skyjack Inc. Service Center 3451 Swenson Ave., St. Charles, IL. 60174 **FAX 630 262-0006**

For Parts in North America and Asia please call 800 965-4626

Skyjack Inc. Parts Center 990 Vernon Rd., Wathena, KS, 66090 ... **FAX 888 782-4825**

For Parts & Service in Canada please call 800 265-2738

Skyjack Inc. 55 Campbell Rd., Guelph, Ontario, Canada N1H 1B9 **FAX 519 837-3883**

For Parts & Service in Europe please call 31 297 255 526

Skyjack Europe Communicatieweg 29, 3641 SG Mijdrecht Netherlands **FAX 31 297 256 948**

CALIFORNIA
Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the state of California to cause cancer, birth defects, and other reproductive harm.

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WARNING

ANSI/SIA (United States)

You are required by ANSI/SIA A92.5 -1990 to read and understand **YOUR RESPONSIBILITIES** in the Manual Of Responsibilities before you use or operate this work platform.

CSA (Canada) and CE (Europe)

You are required to conform to national health and safety regulations applicable to the operation of this work platform.

FAILURE TO COMPLY with your REQUIRED RESPONSIBILITIES in the use and operation of the work platform could result in death or serious injury.

OPERATOR SAFETY REMINDERS

The National Safety Council reminds us that most accidents are caused by the failure of some individuals to follow simple and fundamental safety rules and precautions. Common sense dictates the use of protective clothing when working on or near machinery. Use appropriate safety devices to protect your eyes, ears, hands, feet and body.

You, as a careful operator, are the best insurance against an accident. Therefore, proper usage of this work platform is mandatory. The following pages of this manual should be read and understood completely before operating the work platform. Any modifications from the original design are strictly forbidden without written permission from SKYJACK, Inc.

 DANGER	VOLTAGE RANGE	MINIMUM SAFE APPROACH DISTANCE	
ELECTROCUTION HAZARD	(PHASE TO PHASE)	(FEET)	(METERS)
THIS MACHINE IS NOT INSULATED. MAINTAIN SAFE CLEARANCES FROM ELECTRICAL POWER LINES AND APPARATUS. YOU MUST ALLOW FOR PLATFORM SWAY, ROCK OR SAG. THIS WORK PLATFORM DOES NOT PROVIDE PROTECTION FROM CONTACT WITH OR PROXIMITY TO AN ELECTRICALLY CHARGED CONDUCTOR.	(0 TO 300V)	AVOID CONTACT	
	(Over 300V to 50KV)	10	3.05
	(Over 50KV to 200KV)	15	4.06
	(Over 200KV to 350KV)	20	6.10
	(Over 350KV to 500KV)	25	7.62
	(Over 500KV to 750KV)	35	10.67
	(Over 750KV to 1000KV)	45	13.72
FAILURE TO AVOID THIS HAZARD WILL RESULT IN DEATH OR SERIOUS INJURY!			

DO NOT OPERATE THIS EQUIPMENT WITHOUT PROPER AUTHORIZATION AND TRAINING. DEATH OR SERIOUS INJURY COULD RESULT FROM IMPROPER USE OF THIS EQUIPMENT!

SERVICE POLICY AND WARRANTY

SKYJACK, Inc. warrants each new work platform to be free of defective parts and workmanship during the first 12 months. Refer to Warranty Statement on Page iv for details.

NOTE

SKYJACK, Inc. is continuously improving and expanding product features on it's equipment; therefore, specifications and dimensions are subject to change without notice.



This Safety Alert Symbol Means Attention!

Become Alert! Your Safety Is Involved.

The Safety Alert Symbol identifies important safety messages on machines, safety signs, in manuals, or elsewhere. When you see this symbol, be alert to the possibility of personal injury or death. Follow the instructions in the safety message.

SCOPE OF THIS MANUAL

This manual applies to the ANSI/SIA, CSA and CE versions of the SJB-66TK work platform. Equipment identified with "ANSI/CSA" meets the ANSI/SIA-A92.5-1990 standards. Equipment identified with "CSA" meets the CAN3-B354.4-M82 standards. Equipment identified with "CE" meets the requirements for the European countries, i.e. Machinery Directive 89/392/EEC and EMC Directive 89/336/EEC and the corresponding EN standards.

WARRANTY STATEMENT

SKYJACK, Inc. warrants each new work platform to be free of defective parts and workmanship. During the first full year, labor and replacement parts will be provided by the local authorized Skyjack dealer without charge. For the following 48 months, structural components found to be defective will be replaced or repaired at no charge.

A warranty registration card is supplied with each work platform. The warranty is only effective when the warranty card has been completed and returned to Skyjack within 15 days from the time of billing. When work platforms are put into stock, the warranty period does not start until the work platform has been shipped to the dealer's customer. If a unit is put into service and no warranty card has been mailed to Skyjack, Inc., the warranty period will commence 15 days from the date the dealer was invoiced for the work platform.

All warranty claims are subject to approval by Skyjack's Service Department. Skyjack, Inc. reserves the right to limit or adjust claims with regard to defective parts, labor or travel time based on usual and customary guidelines. Parts purchased from sources other than Skyjack will not be covered under this warranty. Misuse or improper operation, lack of normal maintenance and inspections as outlined in this Operating/Maintenance and Parts Manual, alterations to original design and/or components or accidents will void all warranty. **Batteries are not covered by this warranty.**

The above mentioned warranty statement is exclusive and no other warranty whether written, oral or implied shall apply. Skyjack excludes any implied warranty of merchantability and fitness and accepts no liability for consequential damages or for other negligence.

WARRANTY PROCEDURES

The selling distributor or authorized dealer shall be responsible for the complete handling of customer claims under this warranty. Here's what to do:

1. When a customer files a claim under this warranty, contact Skyjack's Service Department to verify warranty coverage. NOTE: The complete serial number of the work platform is required to verify the claim.
2. When Skyjack's Service Department verifies warranty coverage, they will also issue an RA (Return Authorization) number for the return of any defective component(s). All items over \$25.00 in value must be returned to Skyjack, Inc.

3. Fill out a Warranty Claim Form from dealer's supply of claim forms. Then notify Skyjack's Service Department of the warranty claim number on the form used.
4. The distributor/dealer should then file a warranty claim with Skyjack, Inc. describing the nature of the defect, probable cause, work performed, travel hours, and labor hours listed separately. Warranty labor will be paid at a rate of \$42.00 per hour. The travel allowance will be paid at the same hourly rate within the dealer's specified territory, limited to a maximum of four (4) hours. If a part has serviceable components, PLEASE replace the bad component. For instance, if you have a bad switch on a controller, please replace the switch. Hydraulic cylinders should be repacked, unless they are damaged beyond repair. Engine failures should be directed to your local engine distributor and covered by the manufacturer's warranty. Skyjack will accommodate you and your labor. Labor rates and travel allowances are subject to change without notice.
5. Warranty claims must be received by Skyjack within 15 working days from the date of the repair. Warranty claims received with insufficient information will be returned for correction or completion.
6. Materials returned for warranty inspection must have the following procedures:
 - A. Carefully packaged to prevent additional damage during shipping.
 - B. Drained of all contents and all open ports capped or plugged.
 - C. Shipped in a container tagged or marked with the RA number.
 - D. Shipped **PREPAID**. Any item(s) returned for warranty by any other means may be refused and returned unless prior approval from Skyjack is obtained.
 - E. Items shipped to the dealer will be sent freight prepaid and added to the invoice.

Failure to comply with the above procedures may delay approval and processing of the warranty claim and could result in the denial of a warranty claim. Skyjack's dealer's accounts must be kept current in order to approve and issue warranty credits. Skyjack reserves the right to withhold issuance of warranty credits to a dealer if their account is not in good standing. This is subject to change without prior notice.

SECTION 1 INTRODUCTION

PURPOSE OF EQUIPMENT

The SKYJACK SJB-TK Boom Work Platforms are designed to transport and raise personnel and tools to overhead and below grade work areas.

USE OF EQUIPMENT

The work platform (Fig. 1-2) is a highly maneuverable, mobile work station. The TK models are designed for both slab-type and rough terrain applications. **Lifting and elevated driving MUST be on a flat, level, compacted surface.**

WARNINGS

The operator **MUST** read and completely understand the front panel labels (Figures 1-1) and **ALL** other warnings in this manual and on the work platform. Compare the labels on the work platform with the labels found throughout Sections 1 and 2 of this manual. If any labels are damaged or missing, replace them immediately.

DESCRIPTION

The work platform consists of four major assemblies, the platform, boom assembly, turret and drive chassis. An operator's control console is located on the platform. A foot switch on the platform enables and disables the platform controls. (Auxiliary and emergency controls are located on the rotating turret and platform.)

PLATFORM - The platform is constructed of a skid-resistant see-thru deck surface and a 42" high tubular steel railing system with midrails and 6" toe boards. The platform can be entered at either access through a sliding midrail bar or optional hinged gate. The platform can be rotated 90 degrees from center in either direction. A 110 VAC GFI outlet is also located on the platform.

BOOM ASSEMBLY - The boom is mounted on the turret and consists of a 6 foot hydraulic boom jib, telescoping fly boom, telescoping mid boom, boom knuckle assembly and main boom. This mechanism uses double-acting hydraulic cylinders with holding valves to control movement of each boom.

TURRET - The turret rotates 360 degrees continuously. Within the turret are two main cabinets. One cabinet contains the base control box, main hydraulic manifold and function valves, emergency hydraulic pump and motor, and the primary and emergency batteries. The other cabinet contains the engine, and hydraulic pumps. The hydraulic oil and fuel tanks are also mounted on the turret with access to filler neck and level gauges through the removeable covers.

DRIVE CHASSIS - The base is a rigid one-piece weldment. Models equipped with dual fuel option have mounting straps for a propane tank on each side. The front axle has two non-driven wheels, steerable by a hydraulic cylinder (2WD models), or a hydraulic motor driven axle with an integrated cylinder for steering the wheels and spring-applied hydraulically-released parking brakes (4WD models). The rear axle is hydraulic motor driven (2WD models), or coupled to the front axle by a drive shaft (4WD models) and has spring-applied hydraulically-released parking brakes.

PLATFORM CONTROL CONSOLE - Located on the platform, this control station contains controls for work platform motion, emergency stopping and emergency pump operation.

OPTIONAL ACCESSORIES - The SKYJACK SJB-TK Boom Work Platforms are designed to accept a variety of optional accessories. These are listed in Table 1-1. Specifications and Features found later in this section. Operating instructions for these options (if required) can be found in Section 2 of this manual.

General Work Conditions

Read and pay attention to all labels on the unit.

DO NOT exert excessive side forces on platform while elevated.

DO NOT overload, the lift relief valve does not protect against overloading when the platform is elevated.

DO NOT alter or disable limit switches or other safety devices.

DO NOT raise your platform in windy or gusty conditions.

DO NOT exceed the rated capacity of your unit. Make sure the load is evenly distributed on the platform.

Jobsite Hazards

DO NOT operate the unit on surfaces not capable of supporting the weight of the work platform, including the rated load, e.g. covers, drains and trenches.

BE AWARE of overhead obstacles, especially electrical lines. Also be aware of poorly lit areas that might hide overhead obstacles.

DO NOT elevate the work platform if the unit is not on firm level surfaces. Avoid pot holes, loading docks, debris, drop offs and surfaces that may affect the stability of your work platform.

DO NOT climb or descend a grade steeper than 30% while in travel mode. Boom elevated driving must be done only on firm surfaces. (Ref. Table 1-1)

ENSURE that there is no person(s) in the path of travel.

Work Platform Conditions

An operator should not use any work platform that:

Has ladders, scaffolding or other devices mounted on it to increase its size or work height.

Does not have a clean, uncluttered work area.

Does not appear to be working properly.

Has been damaged or appears to have worn or missing parts.

Has alterations or modifications not approved by the manufacturer.

Has safety devices which have been altered or disabled.

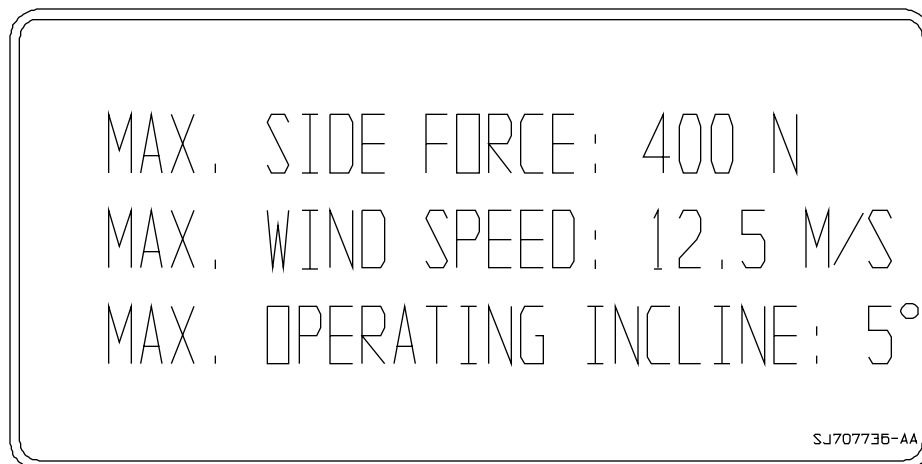


Figure 1-1. Front Panel & Platform Labels

TABLE 1-1. SPECIFICATIONS AND FEATURES

Specifications

WEIGHT	34000 lb. (11703kg)
WORK HEIGHT (nominal)	71'9" (21.87m)
RAISED PLATFORM HEIGHT (nominal)	65'9" (20.04m)
STOWED HEIGHT	9'0" (2.74m)
OVERALL WIDTH	8'0" (2.44m)
STOWED LENGTH	29'6" (8.99m)
PLATFORM CAPACITY (Unrestricted)	600 lb. (272kg)
PLATFORM SIZE (Standard)	30" x 96" (.76mx2.44)
ELECTRICAL SYSTEM (Engine starting)	12 volt
GRADABILITY	30%+
TURRET ROTATION	Continuous
TIRE SIZE	15 x 19.5 Air Filled

Features

STANDARD EQUIPMENT

- 6 Foot Hydraulically Controlled Boom Jib
- Variable Speed Drive and Function Controls
- Telescopic Knuckle Assembly
- Continuous Drive and Steer Directional Sensing
- 12 Volt DC Emergency Power
- Engine Anti-restart Protection
- Spring-Applied Hydraulically Released Parking Brakes
- ANSI and CSA Standards Compliance
- 110V Outlet on Platform with GFI
- Ford LRG 423 Gasoline Engine

OPTIONAL EQUIPMENT

- Operator Horn
- All Function Motion Alarm
- Travel Alarm
- Flashing Amber Light
- Spring-Loaded Half Gate
- Spring Loaded Full Gate
- Dual Fuel (Gas/Propane)
- 3500 Watt Hydraulic Generator
- Cold Weather Start Package
- 30" x 72" and 30" x 120" Platform Options
- Four Wheel Drive
- Diesel Engine
- Chassis Lights
- Platform Work Lights
- Air or Hydraulic Line to Platform
- Platform Overload Sensing (France)

WORK PLATFORM MAJOR COMPONENT IDENTIFICATION

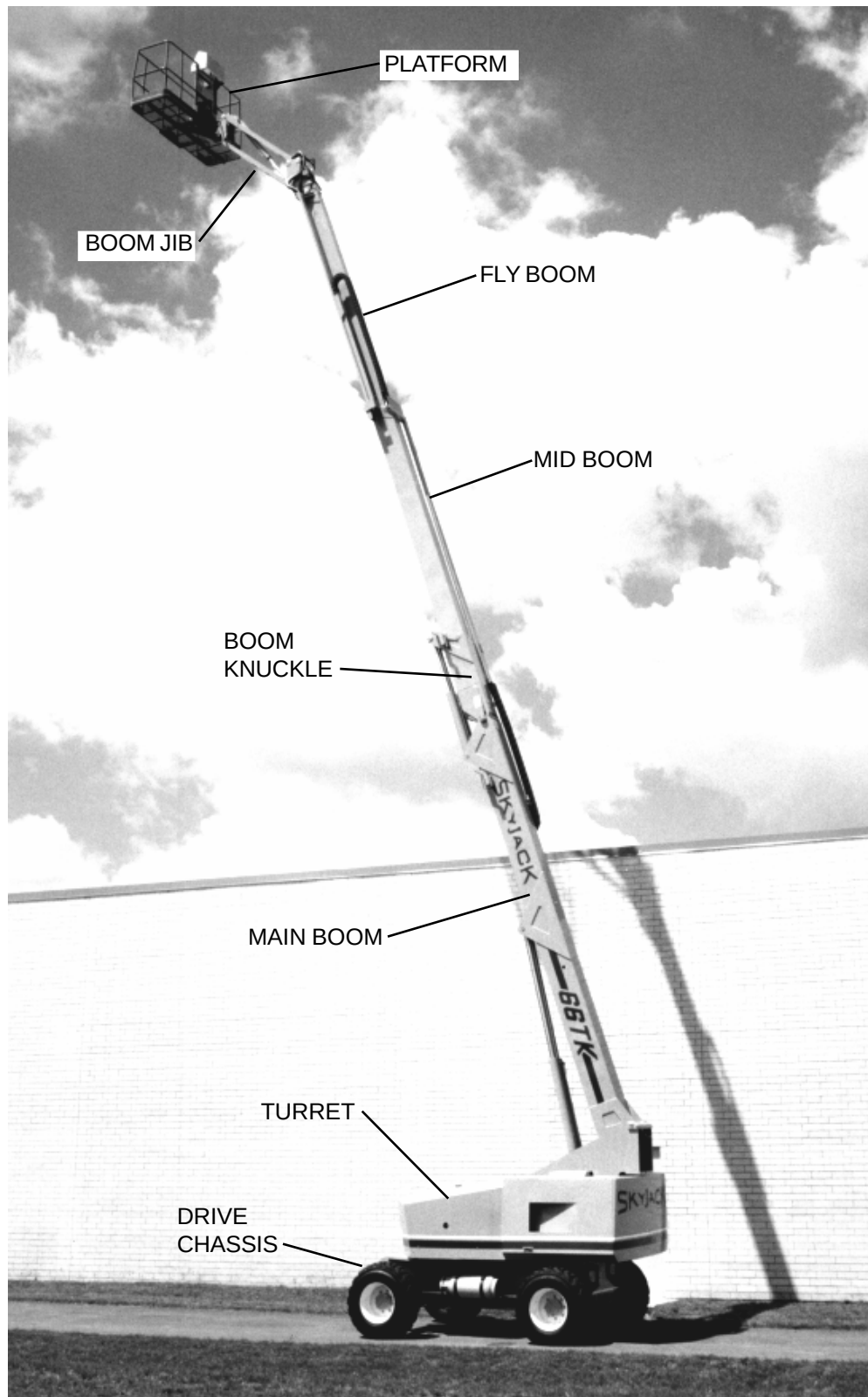


Figure 1-2. SKYJACK SJB-66TK Boom Work Platform

SECTION 2

OPERATOR CONTROLS/INSPECTIONS

OPERATOR QUALIFICATIONS

Only trained and authorized persons should use this work platform. Safe use of this work platform requires the operator to understand the limitations and warnings, operating procedures and operator's responsibility for maintenance. Accordingly, the operator **MUST** understand and be familiar with this operating manual, its warnings and instructions and **ALL** warnings and instructions on the work platform. Operator also **MUST** be familiar with employer's work rules and related government regulations and be able to demonstrate his/her ability to understand and operate **THIS** make and model work platform in the presence of a qualified person.

OPERATOR'S RESPONSIBILITY FOR MAINTENANCE

Death or injury can result if the work platform is not kept in good working order. Inspection and maintenance should be performed by competent personnel who are familiar with mechanical procedures.

The operator should be assured that the work platform has been properly maintained and inspected before using it. Even if the operator is not directly responsible for the maintenance of this work platform, the operator should perform **ALL** the daily inspections found in Table 2-1. Maintenance and Inspection Schedule.

NOTE

Replace all worn or damaged parts or labels discovered during this inspection.

MAINTENANCE AND INSPECTION SCHEDULE

The actual operating environment of the work platform governs the use of the maintenance schedule. The inspection points covered in Table 2-1. Maintenance and Inspection Schedule indicates the areas of the work platform to be maintained or inspected and at what intervals the maintenance and inspections are to be performed.

OWNER'S ANNUAL INSPECTION RECORD

It is the responsibility of the owner to arrange daily, weekly, monthly and annual inspections of the work platform. (Refer to Table 2-2. in this manual.)

GENERAL MAINTENANCE HINTS

- Before attempting any repair work, disconnect the battery by turning the Battery Disconnect Switch to the "OFF" position.
- Preventative maintenance is the easiest and least expensive type of maintenance.

OPERATING CONTROL IDENTIFICATION

The following descriptions are for identification, explanation and locating purposes only. A qualified operator **MUST** read and completely understand these descriptions before operating this work platform. Procedures for operating this work platform are detailed in the "**OPERATING PROCEDURES**" section on Pages 8 through 9 in this manual.

Base Controls - Electrical

Base Control Panel

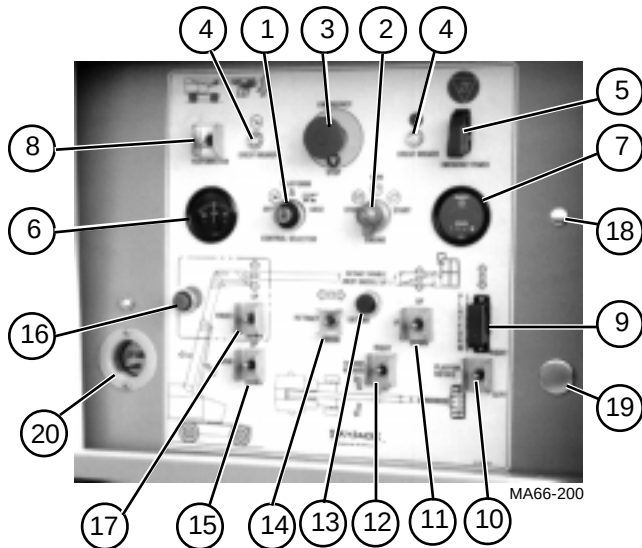


Figure 2-1. Base Control Panel and Label

1. OFF/PLATFORM/BASE SELECT KEY SWITCH
2. ENGINE OFF/RUN/START SELECT SWITCH
3. EMERGENCY STOP BUTTON
4. CIRCUIT BREAKERS
5. EMERGENCY PUMP SELECT TOGGLE SWITCH
6. CHARGING AMPERAGE GAUGE
7. ENGINE HOUR METER
8. MANUAL PLATFORM STOWING TOGGLE SWITCH
9. MANUAL PLATFORM LEVELING SWITCH
10. PLATFORM/JIB ROTATE TOGGLE SWITCH
11. JIB UP/DOWN TOGGLE SWITCH
12. TURRET ROTATE TOGGLE SWITCH
13. RETRACT DISABLE LIGHT
14. BOOM RETRACT/EXTEND TOGGLE SWITCH
15. BOOM LIFT UP/DOWN TOGGLE SWITCH
16. KNUCKLE ENABLE LIGHT
17. BOOM KNUCKLE UP/DOWN TOGGLE SWITCH
18. GLOW PLUG SWITCH (Diesel option)
19. COLD WEATHER START OPTION RECEPTACLE
20. 110 VOLT RECEPTACLE (Power to platform) or VOLT METER FOR GENERATOR OPTION

BASE CONTROL PANEL - This control station, located on the side of the rotating turret, contains the following controls:

1. OFF/PLATFORM/BASE SELECT KEY SWITCH - Turning the key to the "⊗" (off) position disconnects power from the control circuit. When the "B" (platform) position is selected, power is directed to the control station on the platform. When in the "B" (base) position, power is directed to the control station on the base.

2. ENGINE STOP/RUN/START SELECT SWITCH - Turning the switch to the "⊗" (start) position will engage the starter, once the engine starts, release the switch and it will return to the "B" (run) position. To stop the engine turn the switch to the "⊗" (off) position. The engine must be running before any functions can be operated.

3. EMERGENCY STOP BUTTON - When struck, this red push-button switch disconnects power to the control circuit. In the event of an emergency or at work platform shut down, push button in. To restore power, simply pull button out.



WARNING

Depressing the Emergency Stop Button instantly engages parking brakes.

4. CIRCUIT BREAKER - In the event of a power overload or positive circuit grounding, the circuit breaker will pop out. Make the necessary corrections, then depress the push-button to reset.

5. EMERGENCY PUMP SELECT TOGGLE SWITCH - In the event of an emergency, moving this toggle switch to the "↑" (up) position kills the engine, enables the 12 volt emergency pump and allows all functions, except drive to be operated. To resume normal operation, move the switch to the down position by closing the switch cover.

6. AMPERAGE GAUGE - With the engine running, this gauge monitors battery charging amperage.

7. HOUR METER - Activated by the engine oil pressure switch, this gauge measures engine running time.

8. MANUAL PLATFORM STOWING TOGGLE SWITCH - This feature is used to fold the platform below the boom arm for minimum stowed length. With the Off/Platform/Base Select Key Switch in the "B" (base) position. Fully retract the Mid and Fly boom sections. Elevate the main boom slightly above horizontal to prevent the platform from contacting the ground. Hold the Manual Platform Stowing Toggle Switch in the "↑" (up) position (**this switch must be held through the entire stowing procedure**) and fully lower the boom jib. With the Manual Platform Leveling Switch, tilt the platform below the boom. Lower the boom to the desired position and release the Manual Stowing Switch. To resume normal operation, hold the Platform Stowing Toggle Switch in the "↑" (up) position and raise the boom until there is sufficient ground clearance for the platform to swing out. Release the stowing switch and continue to raise the boom, the automatic leveling system will return the platform to its working position.



WARNING

Before using the platform stowing feature. Remove all loose items from platform i.e. tools, work materials, etc. Check around platform for any obstacles that may be in the path of travel of the platform. DO NOT use the stowing feature with a person in the platform.

9. MANUAL PLATFORM LEVELING TOGGLE SWITCH - This switch is to be used with the Manual Platform Stowing Toggle Switch to level the platform or for stowing the platform below the boom. This switch will not operate unless the Platform Stowing Switch is being held in the “↑” (up) position.

10. PLATFORM LEFT/RIGHT ROTATION TOGGLE SWITCH - This switch controls left and right rotation of the platform. To rotate the platform to the left, push and hold this toggle switch to the “↓” (left) position. Release switch to stop. To rotate the platform to the right, push and hold this toggle switch to the “↑” (right) position.

11. JIB UP/DOWN TOGGLE SWITCH - This switch controls the up/down movement of the jib. To move the jib upward, push and hold this toggle switch to the “↑” (up) position. Release switch to stop. To move the jib downward, push and hold this toggle switch to the “↓” (down) position. Release switch to stop.

12. TURRET ROTATION TOGGLE SWITCH - This switch controls clockwise and counter-clockwise turret rotation. To rotate the turret clockwise, push and hold this toggle switch to the “↓” (cw) position. Release switch to stop. To rotate the turret counterclockwise, push and hold this toggle switch to the “↑” (ccw) position. Release switch to stop.

13. RETRACT DISABLE LIGHT - This red indicator light informs the operator that the boom is in a knuckle down condition and the mid boom retract function is not available. The boom knuckle must be in the full up position to allow the mid boom to be retracted.

14. BOOM RETRACT/EXTEND TOGGLE SWITCH - This switch controls the retraction and extension of the telescoping boom arm. This function is automatically sequenced so the mid boom always extends first and retracts last. To retract the boom arm, push and hold this toggle switch to the “←” (retract) position. Release switch to stop. To extend the boom arm, push and hold this toggle switch to the “→” (extend) position. Release switch to stop.

15. BOOM UP/DOWN TOGGLE SWITCH - This switch controls the up/down movement of the boom section. To raise the boom section, push and hold this toggle

switch to the “↑” (up) position. Release switch to stop. To lower the boom section, push and hold this toggle switch to the “↓” (down) position. Release switch to stop.

16. KNUCKLE ENABLE LIGHT - This green indicator light notifies the operator when the mid boom has been fully extended and the boom knuckle feature is available. If this light is not on the boom knuckle function is not available and will not operate.

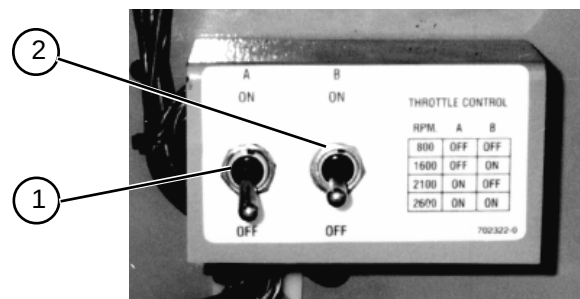
17. BOOM KNUCKLE UP/DOWN TOGGLE SWITCH - This switch controls the up/down movement of the boom knuckle section. To lower the knuckle section, push and hold this toggle switch to the “↓” (down) position. Release switch to stop. To raise the knuckle section, push and hold this toggle switch to the “↑” (up) position. Release switch to stop.

18. GLOW PLUG TOGGLE SWITCH (Diesel option) - This switch activates the diesel engine glow plugs. Prior to starting the engine hold this switch in the up position for 15-20 seconds.

19. COLD WEATHER START RECEPTACLE OPTION - This receptacle is used for A.C. connection on machines equipped with the Cold Weather Start Option.

20. 110 VOLT RECEPTACLE (Power to platform) or VOLT METER FOR GENERATOR OPTION - This 110 volt receptacle provides power to platform on standard machines or replaced by a volt meter for machines equipped with the Hydraulic Generator Option.

Engine Throttle Control Switches



MA66-201

Figure 2-2. Engine Throttle Control Switches

1. ENGINE THROTTLE CONTROL SWITCH “A”
2. ENGINE THROTTLE CONTROL SWITCH “B”

ENGINE THROTTLE CONTROL SWITCHES - These switches located on the engine tray side plate inside the engine cabinet are used to control the engine RPM for engine service, adjustment, or diagnostic testing. To allow full range of RPM at this control the Off/Platform/Base Select Key Switch must be in the “P” (platform) position. Machines with diesel option have only one switch and two available RPM ranges.

Battery Disconnect Switches

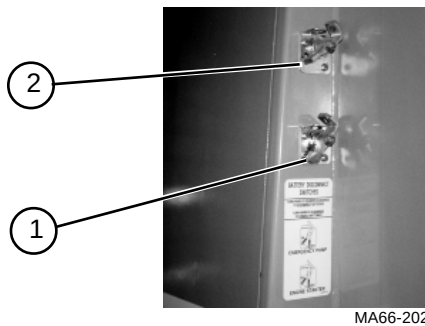


Figure 2-3. Battery Disconnect Switches

1. ENGINE BATTERY DISCONNECT SWITCH
2. EMERGENCY BATTERY DISCONNECT SWITCH

BATTERY DISCONNECT SWITCHES - These switches, located on the fuel tank cover of the turret, disconnect power from both the starting battery and the emergency battery for servicing, shipping and machine shutdown. Both switches **SHOULD** be in the "ON" position when operating the machine.

Base Controls - Mechanical Manual Fuel Shut-Off Valve

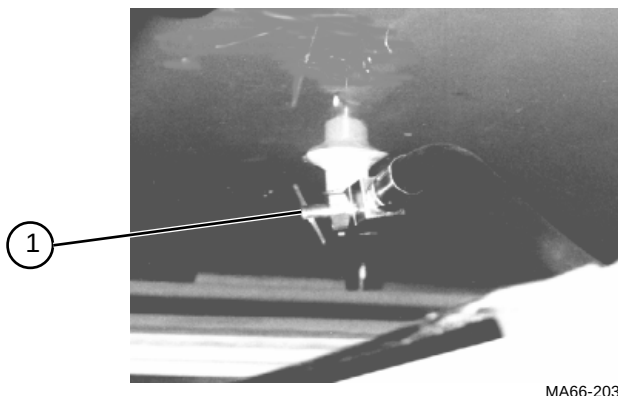


Figure 2-4. Fuel Shut-Off Valve

1. FUEL SHUT OFF VALVE

1. FUEL SHUT OFF VALVE - This valve located in the fuel supply line on the bottom of the fuel tank turns off the supply of fuel to the fuel pump.

Turret Transportation Lock

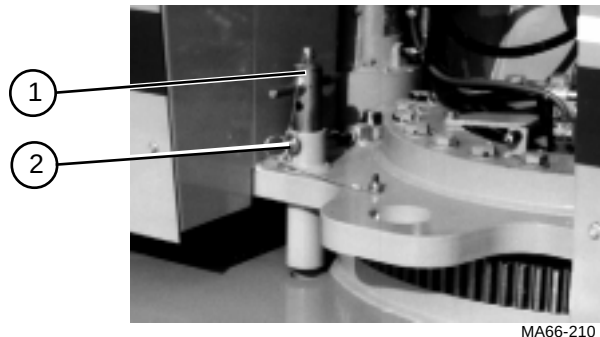


Figure 2-5. Turret Transportation Lock

1. TURRET TRANSPORTATION LOCK
2. TURRET TRANSPORTATION LOCK RETAINING PIN

1. TURRET TRANSPORTATION LOCK - This locking device, located on the turret base plate near the rotation gear, is used to lock the turret in place during shipping only.

2. TURRET TRANSPORTATION LOCK RETAINING PIN - This retaining pin is used to hold the transportation lock in either the locked or unlocked position.

Base Controls - Hydraulic Manual Hydraulic Fluid Shut-Off Valve

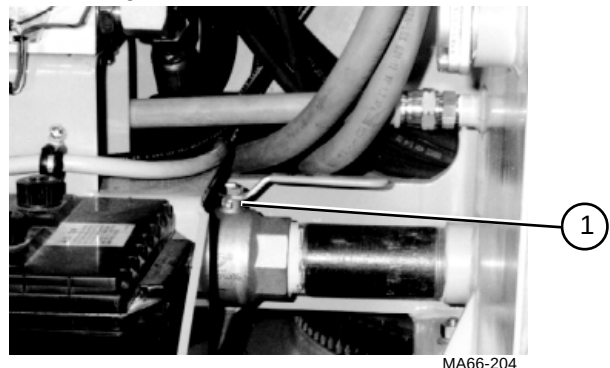


Figure 2-6. Hydraulic Fluid Shut-Off Valve

1. HYDRAULIC FLUID SHUT OFF VALVE

1. HYDRAULIC FLUID SHUT OFF VALVE - This valve located in the hydraulic fluid supply line on the hydraulic tank turns off the supply of hydraulic fluid to the pumps. **DO NOT** start or run the engine with this valve closed.

Drive Relief Valve Overrides (SJB-66TK - Later Models)

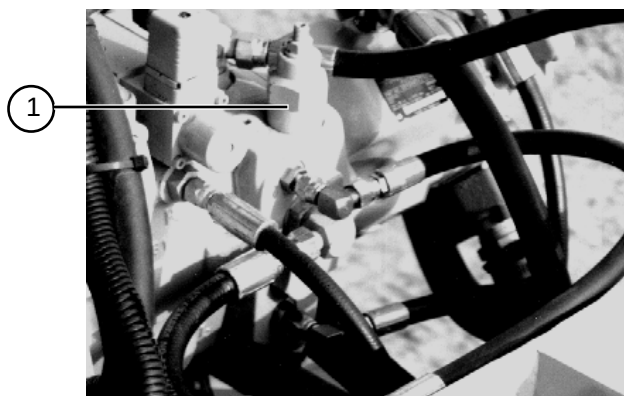


Figure 2-7. Drive Pump

1. DRIVE RELIEF VALVE WITH OVERRIDE STEM

1. DRIVE RELIEF VALVE WITH OVERRIDE STEM.

The relief override stems, located on the top and bottom of the Drive Pump, are used to override the drive relief valves allowing the machine to be loaded or unloaded from a trailer using a winch line. To override the drive relief valve the procedure below MUST be followed:



DO NOT attempt to override the relief valves without the wheels chocked.

- Step 1. Place the machine on a flat level surface and chock the wheels to prevent from rolling.
- Step 2. Loosen the retaining nut on the relief valve override stem. Screw in the override stem (clockwise) until it stops. Repeat this step for both relief valves.
- Step 3. Release the parking brake (see Brake Manifold in this section). The machine is now ready to be loaded or unloaded using a winch line.
- Step 4. Once the machine has been loaded or unloaded unscrew the override stem (counter-clockwise) until it stops and reset the retaining nut.



DO NOT tow. This procedure is intended for loading and unloading the machine using a winch line and should not be used to tow the machine.

Drive Motor Disengage Lever (SJB-66TK - Earlier Models)



MA66-205

Figure 2-7. Drive Motor Disengage Lever

1. DRIVE MOTOR DISENGAGE LEVER

1. DRIVE MOTOR DISENGAGE LEVER - This lever is located on the top side of the planetary gear box at the rear drive axle (2WD models), or on the top side of the transfer case on the front axle (4WD models) and is held in position with an allen head set screw. This lever is used to disengage the drive motor for winching the machine onto or off of a transport vehicle if desired. To disengage the drive motor the procedure below MUST be followed:

- Step 1. Place machine on a flat level surface and chock wheels to prevent from rolling.
- Step 2. Remove set screw from lever and rotate lever towards rear of machine (2WD models) or towards front of machine (4WD models) to disengage drive motor. Reinstall set screw to hold lever in position.
- Step 3. Release the parking brakes using the brake release procedure described in the base hydraulic controls portion of this section.



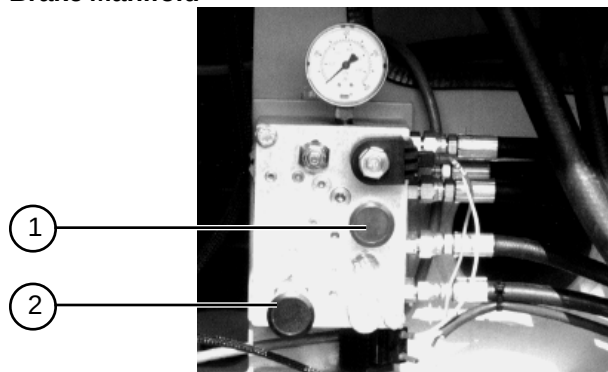
DO NOT tow. This procedure is intended for loading and unloading with a winch line only.



DO NOT attempt to disengage the drive motor without the wheels chocked.

DO NOT release brakes prior to disengaging motor.

Brake Manifold



MA66-207

Figure 2-8. Brake Manifold

1. PARKING BRAKE OVERRIDE VALVE PLUNGER
2. PARKING BRAKE RELEASE HAND PUMP

BRAKE MANIFOLD - This manifold is located near the Base Control Panel on the rotating turret, and accessed by opening the hydraulic/electric cabinet door. It contains the following controls:



DO NOT release the brakes on an incline without the wheels chocked.

1. PARKING BRAKE OVERRIDE VALVE PLUNGER - When this red plunger is pulled out, the brake hydraulic circuit is isolated allowing use of the parking brake hand pump.

2. PARKING BRAKE RELEASE HAND PUMP - The hand pump **MUST** be used to disengage the parking brakes. To release the parking brakes the procedure below **MUST** be followed:

Step 1. Firmly pull out the red plunger on the Brake Manifold until the knob remains out.

Step 2. Grasp the black hand pump plunger and pump rapidly until firm resistance is felt and the brake pressure gauge reaches 700 psi. The brakes are now release. (Although the gauge reading may decrease the brakes will remain released until pressure drops below 300 psi.)

NOTE

To return brakes to normal operation depress red plunger or operate any hydraulic function other than steering.

Platform Controls - Electrical Foot Switch

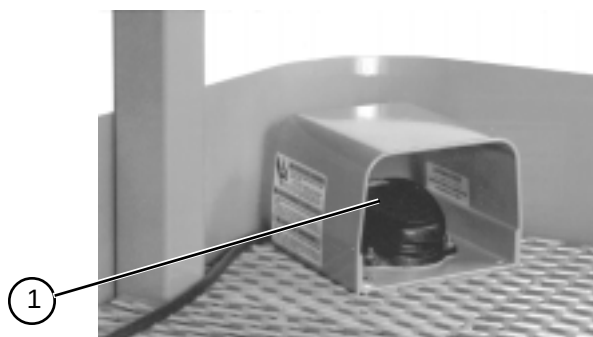


Figure 2-9. Foot Switch

1. FOOT SWITCH

1. FOOT SWITCH - The foot switch is located on the platform. When the foot switch is depressed and held, power is brought to the controls on the operator's control console. When the foot switch is released, the controls on the operator's control console are cut out.

NOTE

Engine will not start with foot switch depressed.

IMPORTANT NOTE

The foot switch **MUST** be depressed and held to use any control on the operator's control console.



Before releasing the foot switch, the controllers should be returned to the neutral position. **Work platform motion will stop when the foot switch is released.** When the foot switch is released the parking brakes are immediately engaged.

Operator's Control Console

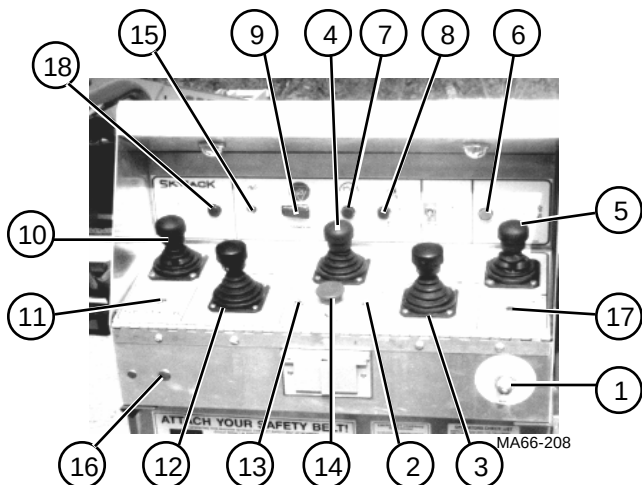


Figure 2-10. Operator's Control Console and Label

1. ENGINE STOP/RUN/START SELECT SWITCH
2. ENGINE SPEED SELECT SWITCH
3. DRIVE/STEER CONTROLLER
4. JIB UP/DOWN, PLATFORM ROTATE CONTROLLER
5. BOOM KNUCKLE UP/DOWN CONTROLLER
6. BOOM KNUCKLE ENABLE INDICATOR LIGHT
7. ENGINE WARNING LIGHT
8. TILT SENSOR INDICATOR LIGHT
9. EMERGENCY PUMP SELECT TOGGLE SWITCH
10. BOOM EXTEND/RETRACT CONTROLLER
11. HORN TOGGLE SWITCH (Option)
12. BOOM UP/DOWN, TURRET ROTATE CONTROLLER
13. DUEL FUEL SELECT SWITCH (Option)
14. EMERGENCY STOP BUTTON
15. PLATFORM WORK LIGHTS and/or CHASSIS HEAD LIGHTS TOGGLE SWITCH (Option)
16. GLOW PLUG SWITCH (Diesel option)
17. HYDRAULIC GENERATOR OPTION TOGGLE SWITCH
18. RETRACT DISABLE INDICATOR LIGHT

OPERATOR'S CONTROL CONSOLE - This control station is located at the front of the platform. It contains the following controls:

IMPORTANT NOTE

The foot switch MUST be depressed and held to use any control on the operator's control console. Refer to Operating Procedures for detailed instructions on operating these controls.

1. ENGINE STOP/RUN/START SELECT SWITCH - This rotating switch controls engine starting and operation. To start engine **Do Not** depress the foot switch.

2. ENGINE SPEED SELECT SWITCH - This three position switch is used to control engine running speed. When the foot switch is released, the engine returns to idle speed.

3. DRIVE/STEER CONTROLLER - This lever-type controller allows the operator to drive in forward and reverse and steer left and right.

4. JIB UP/DOWN AND PLATFORM ROTATE CONTROLLER - This lever-type controller allows the operator to choose the direction and vary the speed for jib up/down movement and platform right/left rotation.

5. BOOM KNUCKLE UP/DOWN CONTROLLER - This lever-type controller allows the operator to choose the direction and vary the speed of the knuckle up/down movement. This function is only available when the mid boom is fully extended and the Knuckle Enable Indicator Light is on.

6. KNUCKLE ENABLE INDICATOR LIGHT - This green indicator light informs the operator that the knuckle function is available to be used. The knuckle function will not operate until this light is on.

7. ENGINE WARNING LIGHT - This red light indicates that the engine oil pressure is low or the engine is overheating.

8. TILT SENSOR INDICATOR LIGHT & BUZZER - This red light and buzzer indicates that the work platform is on a slope. If machine is elevated at this time drive function will be unoperable. Return machine to fully lowered position and drive to flat level ground. Sensor will reset automatically and elevated driving will be restored.

9. EMERGENCY PUMP SELECT TOGGLE SWITCH - In the event of an emergency, lifting the switch cover and holding this switch in the up position kills the engine and enables all functions, except drive to be operated using the 12 volt emergency pump. If the switch is released, power to the emergency pump is disconnected.

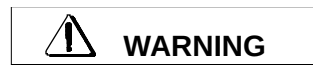
10. BOOM EXTEND RETRACT CONTROLLER - This lever-type controller allows the operator to extend or retract the boom and vary the speed of the function. **NOTE** - The mid boom will not retract if the retract disable light is on.

11. HORN TOGGLE SWITCH (Optional) - The horn can be sounded by pushing this toggle switch to the up position.

12. BOOM UP/DOWN AND TURRET ROTATE CONTROLLER - This lever-type controller allows the operator to choose the direction and vary the speed for boom up/down movement or turret right/left rotation.

13. DUEL FUEL SELECT SWITCH TOGGLE SWITCH (Option) - This switch allows the operator to select the fuel source to be used.

14. EMERGENCY STOP BUTTON - When struck, this red push-button switch disconnects power to the control circuit. In the event of an emergency or at work platform shut down, push button in. To restore power, simply pull button out.



Depressing the Emergency Stop Button instantly engages parking brakes.

15. PLATFORM WORK LIGHT and/or CHASSIS HEAD LIGHTS TOGGLE SWITCH (Optional) - This switch controls power to the platform mounted work lights and/or the chassis mounted head lights.

16. GLOW PLUG TOGGLE SWITCH (Diesel option) - This switch activates the diesel engine glow plugs. Prior to starting the engine hold this switch in the up position for 15-20 seconds.

17. HYDRAULIC GENERATOR TOGGLE SWITCH (Optional) - This switch operates the optional hydraulic 110 volt generator to supply power to the platform mounted 110 volt outlet.

18. RETRACT DISABLE LIGHT - This red indicator light informs the operator that the boom is in a knuckle down condition, the mid boom cannot retract until the knuckle is in a full up position.

OPERATING PROCEDURES

Before operating any control, read and completely understand ALL Dangers, Warnings and Cautions on the work platform and in this operator's manual.

Prestart Checks

1. Carefully read and completely understand ALL of Section 2, OPERATION in this manual and ALL warnings and instruction decals on the work platform.
2. Check for obstacles around the work platform and in the path of travel such as holes, drop offs, debris, ditches and soft fill.
3. Check overhead clearances.

Start and Operation

At the base control panel:

1. Pull out the Emergency Stop Button.
2. Select “” (platform) with Off/Platform/Base Select Key Switch.
3. Enter the platform by sliding the entry bar upward. Make sure the entry bar returns to midrail position. Close the gate (if so equipped).

Using the platform controls:



DO NOT operate any control on the operator's control console without your safety belt fastened and properly securing the safety belt lanyard to the platform lanyard rings. **Failure to avoid this hazard could result in death or serious injury!**

4. Attach the safety belt lanyards of each occupant to the platform lanyard rings.
5. Pull out the Emergency Stop Button.
6. Select desired fuel source using the Fuel Source Select Switch. (Machines with dual fuel option) Press and hold Glow Plug Switch for 15 to 20 seconds, then release. (Machines with diesel engine option)
7. Turn Engine Stop/Run/Start Select Switch to the “” (start) position until engine starts, then release. **DO NOT** over crank the starter. (If engine fails to start after multiple attempts, consult the TROUBLE SHOOTING section in the Operational Maintenance and Parts Manual). **NOTE** Engine will not start if foot switch is depressed.

8. Select desired engine RPM using the Engine Speed Select Switch.

REMEMBER

The following controls on the Operator's Control Console WILL NOT operate unless the Foot Switch is depressed and held.

NOTE

When the operator is positioned over an axle, the direction the operator is facing will be FORWARD!



DO NOT drive the boom when the platform position does not allow the operator a clear view of the chassis

- The operator should not drive or steer while below-grade, or in a position where he cannot see the chassis.
- Before the operator goes into a position where he cannot see the chassis, the operator and “the spotter” shall verify that the intended path of travel is clear of obstruction. This shall be done by driving the TK unit from a position in which the chassis is visible without changing the steering angle, along the length of the travel path.
- Area of operation should be marked off with cones or fenced off with black/yellow warning tape.

9. **TO DRIVE FORWARD:** Slowly move the Drive/Steer Controller handle to the “” (forward) position. Release controller handle to stop.
10. **TO DRIVE IN REVERSE:** Slowly move the Drive/Steer Controller handle to the “” (reverse) position. Release controller handle to stop.
11. **TO STEER:** Move the Drive/Steer Controller handle in the direction you wish to steer.
12. **TO MOVE THE JIB UP:** Slowly move the Jib Up/Down, Platform Rotate Controller to the “” (up) position. Release the controller to stop.
13. **TO MOVE THE JIB DOWN:** Slowly move the Jib Up/Down, Platform Rotate Controller to the “” (down) position. Release the controller to stop.
14. **TO ROTATE THE PLATFORM TO THE LEFT:** Slowly move the Jib Up/Down, Platform Rotate Controller to the “” (left) position. Release the controller to stop.
15. **TO ROTATE THE PLATFORM TO THE RIGHT:** Slowly move the Jib Up/Down, Platform Rotate Controller to the “” (right) position. Release the controller to stop.

16. **TO MOVE THE BOOM UPWARD:** Slowly move the Boom Up/Down, Turret Rotate Controller to the “↑” (up) position. Release the controller to stop.
17. **TO MOVE THE BOOM DOWNWARD:** Slowly move the Boom Up/Down, Turret Rotate Controller to the “↓” (down) position. Release the controller to stop.
18. **TO ROTATE THE TURRET CLOCKWISE:** Slowly move the Boom Up/Down, Turret Rotate Controller to the “↻” (cw) position. Release the controller to stop.
19. **TO ROTATE THE TURRET COUNTER-CLOCKWISE:** Slowly move the Boom Up/Down, Turret Rotate Controller to the “↺” (ccw) position. Release the controller to stop.
20. **TO EXTEND THE BOOM ARM:** Slowly move the Boom Extend/Retract Controller to the “↑” (extend) position. Release the controller to stop. (This function is automatically sequenced so the mid boom will always extend first, followed by the fly boom.)
21. **TO RETRACT THE BOOM ARM:** Slowly move the Boom Extend/Retract Controller to the “↓” (retract) position. Release the controller to stop. (If the retract dissable light is on, the boom is in a knuckle down position.) The boom knuckle must be in the full up position to retract the mid boom. (This function is automatically sequenced so the fly boom will always retract first.)
22. **TO MOVE THE BOOM KNUCKLE DOWN:** Slowly move the Knuckle Up/Down Controller to the “↓” (down) position. Release controller to stop. This function only becomes available when the mid boom has been fully extended, as indicated by the green Knuckle Enable Light on the control console.
23. **TO MOVE THE BOOM KNUCKLE UP:** Slowly move the Knuckle Up/Down Controller to the “↑” (up) position. Release controller to stop. This function only becomes available when the mid boom has been fully extended, as indicated by the green Knuckle Enable Light on the control console.
24. **TO SOUND THE HORN:** Press the Horn Toggle Switch to the “↑” (up) position.
25. **TO OPERATE USING THE EMERGENCY PUMP:** Raise the cover on the Emergency Pump Select Toggle Switch. Press and hold the switch to the “↑” (up) position. When the switch is released, power to the auxiliary pump

will be disconnected. This function is intended to be used in the event of an engine failure to lower the work platform or enable the unit to be loaded onto a trailer using a winch line. This function is not intended to be use for an extended period of time.

Shutdown Procedure

1. Completely retract the boom and lower the platform.
2. Push in the Emergency Stop Buttons.
3. Rotate the Engine Stop/Run/Start Select Switch to the “⊘” (stop) position.
4. Rotate the Off/Platform/Base Key Switch to the “⊘” (off) position. Remove the key.

Loading and Tie Down Procedure

1. With mid and fly boom sections fully retracted and trailer on firm level ground. Align the tires of the boom with the back end of the trailer.
2. Select low speed on the platform throttle control and slightly raise jib and/or boom for ground clearance while loading. Slowly and carefully drive the machine on to the trailer. In the event of an engine failure the Emergency Pump can be used to raise the boom, and steer the work platform while winch loading.

NOTE

For loading and unloading using a winch line, see the drive motor disengage and brake manifold portions of this section.

3. With machine loaded on trailer, tie down as recommended. (Refer to Figure 2-11.)
4. Remove turret lock retaining pin. Lower turret lock into locked position and reinstall turret lock retaining pin.

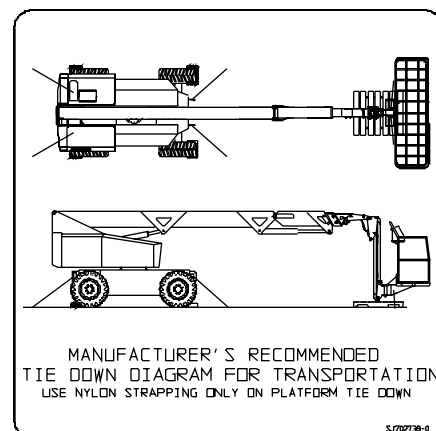


Figure 2-11. Recommended Tie Down Locations

Table 2-1. Maintenance and Inspection Schedule

	Daily	Weekly	Monthly	3 Months	6 Months	* Yearly
Engine (11)						
Fuel leaks (1)	✓					✓
Engine oil (4)	✓					✓
Engine RPM (8)			✓			✓
Fuel filter (7)					✓	✓
Muffler (2)(3)(11)				✓		✓
Air cleaner (1)(7)			✓			✓
Fuel tank cap (2)(3)	✓					✓
Coolant level (1)(12)	✓					✓
Mechanical						
Struct. damage/welds (1)	✓					✓
Parking brakes (2)	✓					✓
Tires and wheels (1)(2)(3)	✓					✓
Guides and wear pads (1)(2)(3)	✓					✓
Railings and gate (2)(3)		✓				✓
Bolts and fasteners (3)	✓					✓
Rust (1)			✓			✓
Whl brgs (2) King pins (1)(6)				✓	✓	✓
Turret gear (1)(2)(3)(6)		✓				✓
Turret gear box (1)(2)(3)(4)		✓				✓
Pivot pins (1)	✓					✓
Steer cylinders/tie rod ends(6)				✓		✓
Axle gear oil (13)						✓
Electrical						
Battery fluid level (1)	✓					✓
Joysticks and control switches (1)(2)(3)	✓					✓
Cords and wiring (1)(3)	✓					✓
Battery terminals (1)(3)	✓					✓
Terminals and plugs (1)(3)	✓					✓
Generator and receptacle (2)	✓					✓
Limit switches (2)	✓					✓
Tilt sensors (2)	✓					✓
Directional sensing (2)	✓					✓
Emergency pump (2)		✓				✓
Hydraulic						
Hydraulic oil level (1)(4)	✓					✓
Hydraulic leaks/hoses (1)(3)	✓					✓
Lift/lowering time (8)				✓		✓
Hydraulic cylinders (1)(2)(3)		✓				✓
Emergency lowering (2)	✓					✓
Lift capacity (5)			✓			✓
Hydraulic oil/filter (7)					✓	✓
Miscellaneous						
Labels (1)(9) Manuals (10)	✓					✓
NOTES: (1) Visually inspect (2) Check operation (3) Check tightness (4) Check oil level (5) Check relief valve setting. Refer to (6) Lubricate (7) Replace (8) See Table 5-7. General Specification Serial Number nameplate MT-66-500 (9) Replace if missing or illegible (10) Proper Operating Manual MUST be in the manual tube (11) Refer to engine manual (12) Check only when cooled (13) Change oil using 80W90, GL5 * Record inspection						

BRAKE OPERATION TEST PROCEDURE

Proper operation of the parking brakes should be checked daily or at the beginning of each shift. Locate the machine in an appropriate area for testing the brakes. **IMPORTANT NOTE:** The area for testing the machine **MUST** be completely level and free of obstructions. **DO NOT** drive on an incline unless the parking brakes are working properly. With the machine fully stowed and the throttle switch in the high position (if engine powered). Drive the machine forward at full speed and remove foot from foot switch. Repeat this step driving in reverse.



WARNING

Parking brakes will instantly engage causing the machine to stop immediately.

The machine should come to an instant and abrupt stop. If the machine does not stop instantly or if the machine pulls to one side while stopping, the brake adjustment **MUST** be checked before putting the machine into service.

Table 2-2. Owner's Annual Inspection Record

MODEL NUMBER _____		SERIAL NUMBER _____						
RECORDING DATE								
RECORDING YEAR #	1	2	3	4	5	6	7	8
OWNERS NAME								
INSPECTED BY								

Table 2-3. Tire Specifications - SJKB-66TK

MT-66-501

Model	Tire		Fill Specification	
	Size	Rating	Type	Pressure
Standard	15 x 19.5	16 Ply	Air	95 PSI
HIGH FLOTATION (Option)	31 x 15.5 lug 31 x 13.5 rib	12 Ply 14 Ply	Air Air	85 PSI 85 PSI
FOAM FILLED (Option)	15 x 19.5	16 Ply	Solid Urethane	*

* 28 Durometer Fill installed at 55 psi

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Table 2-4. Maximum Platform Capacities - SJKB-66TK

Model	Platform Capacity (unrestricted)
SJB-66TK	600# (272kg) 3 occupants
WITH OPTIONAL 10' PLATFORM	500# (227kg) 2 occupants

NOTE: Refer to capacity label on work platform for additional information.

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RECOMMENDED HYDRAULIC OILS

DO NOT use synthetic or fire resistant oil in this work platform. Use ATF Dexron III (ESSO) or equivalent hydraulic oil. For conditions causing oil temperatures below -31°F (-35° C) and above 122°F (50° C) consult Skyjack, Inc.

Table 2-5. Standard Operating Times - SJKB-66TK

Function	Seconds Grnd. or Platform
Turret cw	155 - 170
Turret ccw	155 - 170
Lift up	95 - 105
Lift down	60 - 70
Knuckle down	70 - 80
Knuckle up	105 - 115
Mid Boom out*	30 - 40
Mid Boom in*	20 - 30
Fly Boom out*	30 - 40
Fly Boom in*	20 - 30
Jib up	40 - 50
Jib down	20 - 30
Platform cw	25 - 35
Platform ccw	25 - 35

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Table 2-6. General Specifications - SJKB-66TK

BATTERY (Primary) BATTERY (Emergency)	12 Volt/850 CCA 12 Volt/1000 CCA
AMBIENT NOISE LEVEL	83db
ENGINE RPM SETTINGS (Ford) ENGINE RPM SETTINGS (Diesel)	900(idle), 1600, 2100, 2600 1600(idle), 2600
FUEL (Standard) FUEL (Diesel option)	Non-blended unleaded No. 2 Diesel
GROUND CLEARANCE	12" (30.48cm)
TRAVEL SPEED (Elevated) TRAVEL SPEED (Stowed)	0-.8mph (0-1.29kph) 0-3.5mph (0-5.63kph)
INSIDE TURNING RADIUS (2WD) INSIDE TURNING RADIUS (4WD) OUTSIDE TURNING RADIUS (2WD) OUTSIDE TURNING RADIUS (4WD)	8'-4" (2.5m) 11'-11" (3.6m) 18'-4" (5.6m) 19'-1" (5.8m)
POWER (Ford LRG 423) POWER-Option(Deutz Diesel)	63 Horsepower 57 Horsepower
PIVOTAL HEIGHT	27' (8.2m)
HORIZONTAL REACH	58'-2" (17.7m)
TAILSWING	3' (.9m)
FLOOR LOADING	Not Available at Printing
HYDRAULIC CAPACITY	55 gallons (208-liter)
FUEL CAPACITY	45 gallons (170-liter)

MT-66-506

NOTES

SECTION 3

SYSTEM COMPONENT IDENTIFICATION AND SCHEMATICS

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HYDRAULIC SYSTEM

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Table 3-1. Skyjack Booms, Electrical Symbols Legend

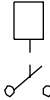
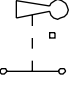
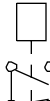
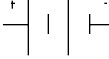
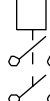
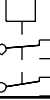
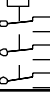
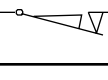
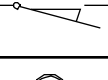
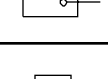
	CIRCUITS CROSSING NO CONNECTION		EMERGENCY STOP BUTTON		RELAY, SINGLE POLE SINGLE THROW
	CIRCUITS CONNECTED		KEY SWITCH		RELAY, SINGLE POLE DOUBLE THROW
	BATTERY		FOOT SWITCH		RELAY, DOUBLE POLE SINGLE THROW
	GROUND		TOGGLE SWITCH		RELAY, DOUBLE POLE DOUBLE THROW
	FUSE		BUSH BUTTON SWITCH		RELAY, TRIPLE POLE DOUBLE THROW
	CIRCUIT BREAKER		ROTARY SWITCH		DIODE
	VOLT METER		LIMIT SWITCH N.O.		SILICON CONTROLLED RECTIFIER
	HOURMETER		LIMIT SWITCH N.O. HELD CLOSED		CAPACITOR
	LIGHT		LIMIT SWITCH N.C.		RESISTOR
	HYDRAULIC VALVE COIL		LIMIT SWITCH N.C. HELD OPEN		POTENTIOMETER
	PROPORTIONAL HYDRAULIC VALVE COIL		CAM OPERATED LIMIT SWITCH		PROXIMITY SWITCH
	ELECTRIC MOTOR		TILT SWITCH		PNP TRANSISTOR
	HORN		LEVEL SENSOR		NPN TRANSISTOR
	PRESSURE/VACUUM SWITCH		TEMPERATURE SWITCH		

Table 3-2. Skyjack Booms, Hydraulic Symbols Legend

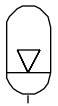
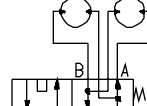
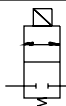
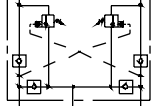
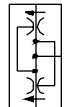
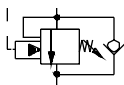
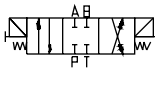
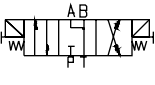
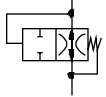
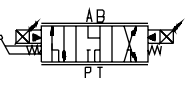
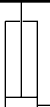
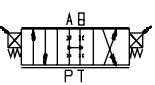
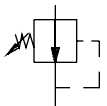
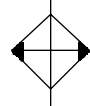
 MAIN LINES Solid	 ADJUSTABLE FLOW CONTROL	 ROTARY ACTUATOR
 PILOT LINES Dashed	 CHECK VALVE	 FIXED DISPLACEMENT HYDRAULIC MOTOR BIDIRECTIONAL
 LINES CROSSING NO CONNECTION	 SHUTTLE VALVE	 VARIABLE DISPLACEMENT HYDRAULIC MOTOR
 LINES CONNECTED	 ACCUMULATOR, GAS CHARGED	 BIDIRECTIONAL SERIES PARELLEL HYDRAULIC MOTOR
 HYDRAULIC TANK	 CUSHION CYLINDER	 TWO POSITION TWO WAY NORMALLY OPEN VALVE
 HYDRAULIC FILTER WITH BYPASS	 PRESSURE SWITCH	 TWO POSITION TWO WAY NORMALLY CLOSED VALVE
 ELECTRIC MOTOR	 MOTION CONTROL ASSEMBLY	 TWO POSITION THREE WAY VALVE
 ENGINE	 FLOW DIVIDER COMBINER	 TWO POSITION THREE WAY VALVE
 FIXED DISPLACEMENT PUMP UNIDIRECTIONAL	 COUNTER BALANCE VALVE	 THREE POSITION FOUR WAY CLOSED CENTER CLOSED PORT
 VARIABLE DISPLACEMENT PUMP BIDIRECTIONAL	 ELECTRICAL VALVE COIL	 THREE POSITION FOUR WAY CLOSED CENTER OPEN PORT
 HAND PUMP	 VELOCITY FUSE	 THREE POSITION FOUR WAY CLOSED CENTER OPEN PORT PROPORTIONAL
 PILOT OPERATED RELIEF VALVE	 SINGLE ACTING CYLINDER	 THREE POSITION FOUR WAY OPEN CENTER OPEN PORT PROPORTIONAL
 PRESSURE REDUCING VALVE	 DOUBLE ACTING CYLINDER	 OIL COOLER
 FIXED ORIFICE	 DOUBLE ACTING DOUBLE RODDED CYLINDER	
 BRAKE CYLINDER	 SPRING APPLIED HYDRAULICALLY RELEASED BRAKE	

Table 3-3. Relay Schedule

RELAY NUMBER	RELAY FUNCTION	WIRES	LOCATION	ENGINE
01CR	Engine Cutout Relay	01,60A,60B,02	Base Panel	All
02ACR	Engine Time Delay Relay	76,77,03A,02,02A	Engine	Diesel
08CR1	Platform Start Relay	08,57,57A,02	Platform Console	All
08CR2	Tilt Brake Relay	08,28,28A,02	Base Panel	All
08CR3	Drive Enable Relay	08,61,61A,02	Base Panel	All
107CR	Platform Leveling Relay	107,94,94A,02	Platform Console	All
108CR	Emergency Pump Relay	108,83,02,DCM1	Base Panel	All
11CR	Fuel Select/Glow Plug Relay	11,77A,50,56,02/ 11,54,02,GP	Base Panel	Dual Fuel/Diesel
17CR1	Steer Direction Relay	17,24,23,23A	Base Panel	All
17CR2	Steer Direction Relay	17,23,24,24A	Base Panel	All
17CR3	Drive Direction Relay	17,61B,62,02	Base Panel	All
17CR4	Drive Direction Relay	17,61B,61C,62,02	Base Panel	All
18CR	Main Boom Down Relay	18,13,13A,02	Base Panel	All
19CR	Main Boom Up Relay	19,14,14A,02	Base Panel	All
20CR1	Emergency Pump Relay	20,01,02,108	Base Panel	All
20CR2	Flashing Light Option Relay	20,20A,09,02	Base Panel	Option
21CR	Load Sence Dump Relay	21,21A,09,02	Base Panel	All
22CR2	Knuckle Up Relay	22,29,69,80,02	Base Panel	All
23ACR	Right Steer Relay	23A,23B,09,02	Base Panel	All
24ACR	Left Steer Relay	24A,24B,09,02	Base Panel	All
25CR	Mid Boom Out Relay	25,25A,09,02	Base Panel	All
26CR	Brake Relay	26,26A,09,02	Base Panel	All
49CR	Horn Option Relay	49,49A,09,02	Base Panel	Option
51CR1	Tilt Relay	51,61A,61B,02	Base Panel	All
51CR2	Tilt Alarm Relay	51,27,09,02	Base Panel	All
51CR3	Brake Safety Relay	51,26,26A,02	Base Panel	All
59CR	High Drive Relay	59,59A,09,02	Base Panel	All
60ACR	Base Panel Power Relay	60A,07,09,02	Base Panel	All
60BCR	Ignition Relay	60B,03,03A,02	Base Panel	All
69CR	Telescope Retract Sequence Relay	69,69A,09,02	Base Panel	All
75CR	Knuckle Enable Relay	75,75A,08,02	Platform Console	All
75CR2	Telescope Extend Sequence Relay	75,75B,09,02	Base Panel	All
77CR	Fuel Pump Relay	77,77A,09,02	Base Panel	Gas/Dual Fuel
81CR	Work Light Option Relay	81,81A,09,02	Base Panel	Option
85CR	Hydraulic Generator Option Relay	85,85A,09,02	Base Panel	Option
88CR	Throttle Control Relay	88,78,08,02	Base Panel	Gas/Dual Fuel
TD1	Engine Time Delay Relay	54,57A,77,02	Engine	Gas/Dual Fuel
TD2	Mid Boom Out Time Delay Relay	25A,75,103,02	Base Panel	All

Table 3-4. Wire Number and Color Code

WIRE NO.	WIRE COLOR	WIRE NO.	WIRE COLOR	WIRE NO.	WIRE COLOR	WIRE NO.	WIRE COLOR	WIRE NO.	COLOR
1	PUR/BLK	20	ORG/BLU	39	BLK/RED	68	GREY	94	YEL/GREY
2	WHT	21	WHT/RED	40	BLU/RED	69	WHT/GRN	96	WHT/GR-EY
3	GRN/PUR	22	PUR/GRN	41	BLU/PUR	74	GRN/GREY	97	ORG/GREY
4	RED/YEL	23	BLK/WHT	46	RED/BLK	75	GREY/PUR	98	RED SHLD
5	PUR	24	BLU/BLK	48	YEL/GREY	76	BRN/BLU	98A	BLK SHLD
6		25	BRN/BLK	49	GRN/RED	77	BRN/GREY	99	BLK/GREY
7	RED	26	BLU/YEL	50	BRN	78	RED/BLU	107	BLK/BLU
8	PUR/WHT	27	RED/BLK/WHT	51	BLK/GRN	79	BRN/PUR	108	YEL/BRN
9	YEL	28	GRN	53	BRN/RED	80	GREY/WHT	109	GRN/YEL
10	BLU/WHT	29	GREY/ORG	54	YEL	81	GREY/BLK	110A	BLU
11	WHT/ORG	30	RED/GRN	55	YEL/PUR	82	BRN/WHT	110B	BRN
12	GREY/ORG	31	RED/WHT	56	YEL/BLK	83	BLU/GREY	111	GREY/GRN
13	ORG	32	GRN/BLK	57	BRN/GRN	84	WHT/BLK/PUR	114	YEL/RED
14	BLK	33	GRN/WHT	59	YEL/BLU	85	GREY/BLU		
15	BLU	34	ORG/BLK	60	WHT/BLU	88	BLK/GRN		
16	WHT/BLK	35	ORG/WHT	61	GREY/BRN	90	RED/GREY		
17	BLU/GRN	36	RED/PUR	62	GREY/RED	91	RED SHLD		
18	GRN/BLU	37	WHT/RED/BLK	63	GREY/YEL	92	GRN SHLD		
19	ORG/GRN	38	ORG/RED	64	WHT/BRN	93	BLK SHLD		

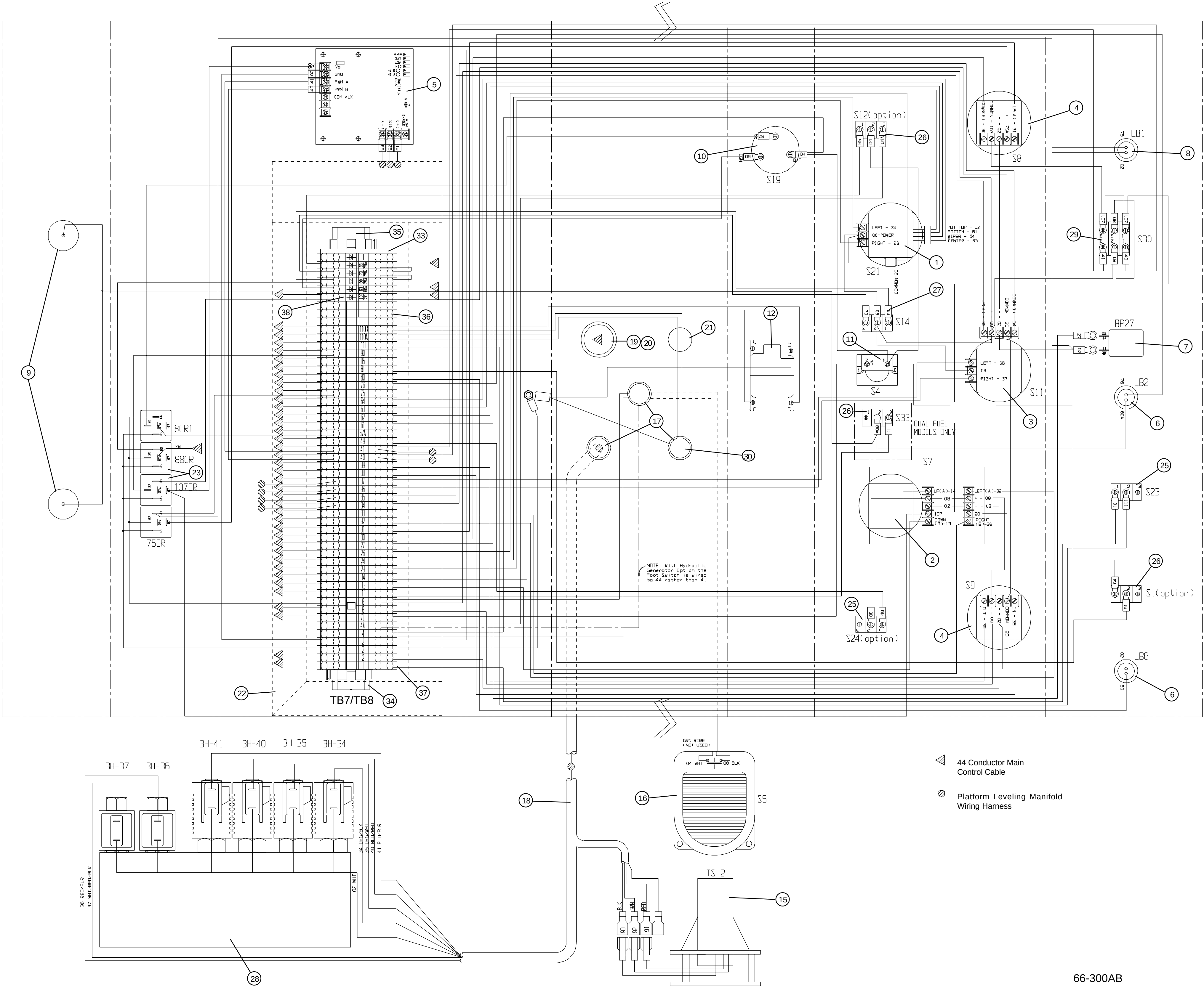
MA-66-304

This table is to be used as a wire number/color reference for all electrical drawings and schematics. All wire numbers will retain their original color coding, for example if wire 7 is red, wire 7A, 7B, and 7C will also be red.

**FIGURE 3-1. CONTROL CONSOLE DIAGRAM PARTS LIST WITH OPTIONS
(Gas and dual fuel)**

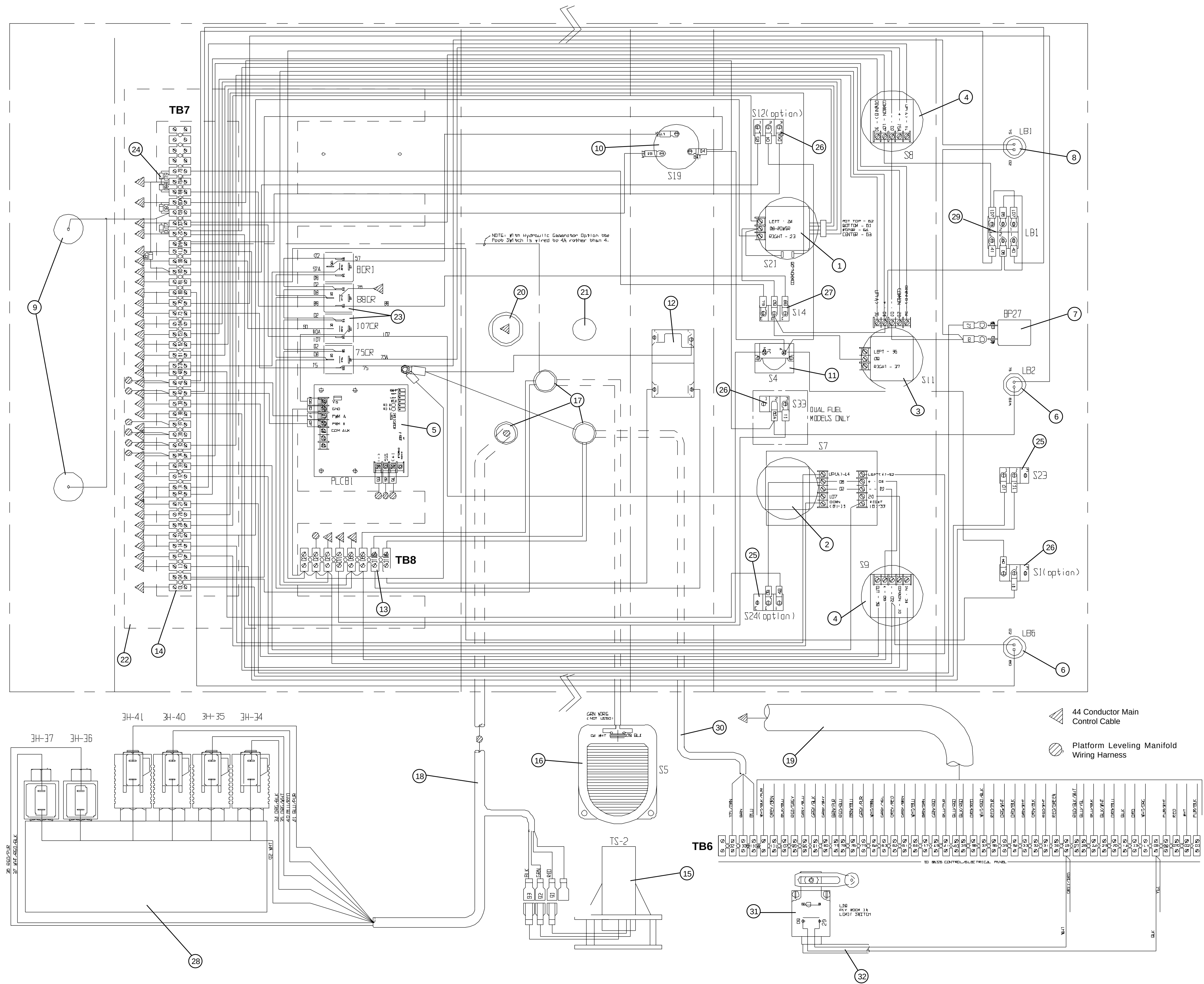
Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	702197	CONTROLLER, Drive/steer (For components, refer to Figure 6-5.)	1
2	702198	CONTROLLER, Main lift/turret rotate (For components, refer to Figure 6-6.)	1
3	702199	CONTROLLER, Jib lift/platform rotate (For components, refer to Figure 6-7.)	1
4	702200	CONTROLLER, Knuckle/extension (For components, refer to Figure 6-8.)	2
5	704311	CIRCUIT BOARD, Platform leveling	1
6	701934	LIGHT, Red indicator	2
	703185	• BULB, 12 Volt #1893	1
7	701936	ALARM, Dual	1
	703186	• BULB, 12 Volt #1815	1
8	701935	LIGHT, Green indicator	1
	703185	• BULB, 12 Volt #1893	1
9	701937	LIGHT, Console illumination	2
	703187	• BULB, 12 Volt #67	1
10	701931	SWITCH, Anti-restart ignition	1
11	(Ref.)	SWITCH ASSEMBLY, Emergency stop (For components, refer to Figure 6-4.)	1
12	109698	RECEPTACLE, 110 Volt GFCI	1
13	103011	TERMINAL STRIP, Large (Serial Number 93266 and Below.)	1
14	103012	TERMINAL STRIP, Small (Serial Number 93266 and Below.)	4
15	702168	SENSOR, Platform leveling	1
16	700187	SWITCH, Foot	1
17	103036	STRAIN RELIEF, Strait plastic	4
18	704478	WIRE HARNESS, Platform leveling manifold	1
19	704085	CABLE, 49 Wire main control (Serial Number 93230 and Above.)	1212"
	704085	CABLE, 49 Wire main control (Serial Number 93229 and Below.)	468"
20	702613	STRAIN RELIEF, 1-1/8" Strait	1
21	102956	PLUG, Knockout 7/8"	1
22	702185	WIRE DUCT, 1"	22"
	706421	WIRE DUCT, 1-1/2"	58"
	702186	COVER, 1" Wire duct	80"
23	701943	RELAY, 12 Volt sealed	4
24	700166	DIODE, 1 Amp 400PIV (Serial Number 93266 and Below.)	5
25	701929	SWITCH, Toggle 2 position momentary	2
26	701930	SWITCH, Toggle 2 position maintained	3
27	701933	SWITCH, Toggle 3 position maintained	1
28	704179	MANIFOLD ASSEMBLY, Platform leveling (For components, refer to Figure 6-13.)	1
29	702662	SWITCH, Toggle 3 position momentary DPDT	1
30	704086	CABLE, 12 Ga. 3 wire (Serial Number 93230 and Above.)	1212"
	704086	CABLE, 12 Ga. 3 wire (Serial Number 93229 and Below.)	468"
31	702434	LIMIT SWITCH, Roller arm	1
32	103256	CABLE, 18 Ga. 2 wire	800"
33	707146	END PLATE (Serial Number 93267 and Above.)	1
34	707147	END STOP (Serial Number 93267 and Above.)	2
35	707149	DIN RAIL, For terminal blocks (Serial Number 93267 and Above.)	17/64"
36	707143	TERMINAL BLOCK, thru (Serial Number 93267 and Above.)	43"
37	707144	TERMINAL BLOCK, Ground (Serial Number 93267 and Above.)	3
38	707145	TERMINAL BLOCK, Diode (Serial Number 93267 and Above.)	6

FIGURE 3-1. CONTROL CONSOLE DIAGRAM WITH OPTIONS(Dual Fuel)
(Serial Number 93267 and Above)



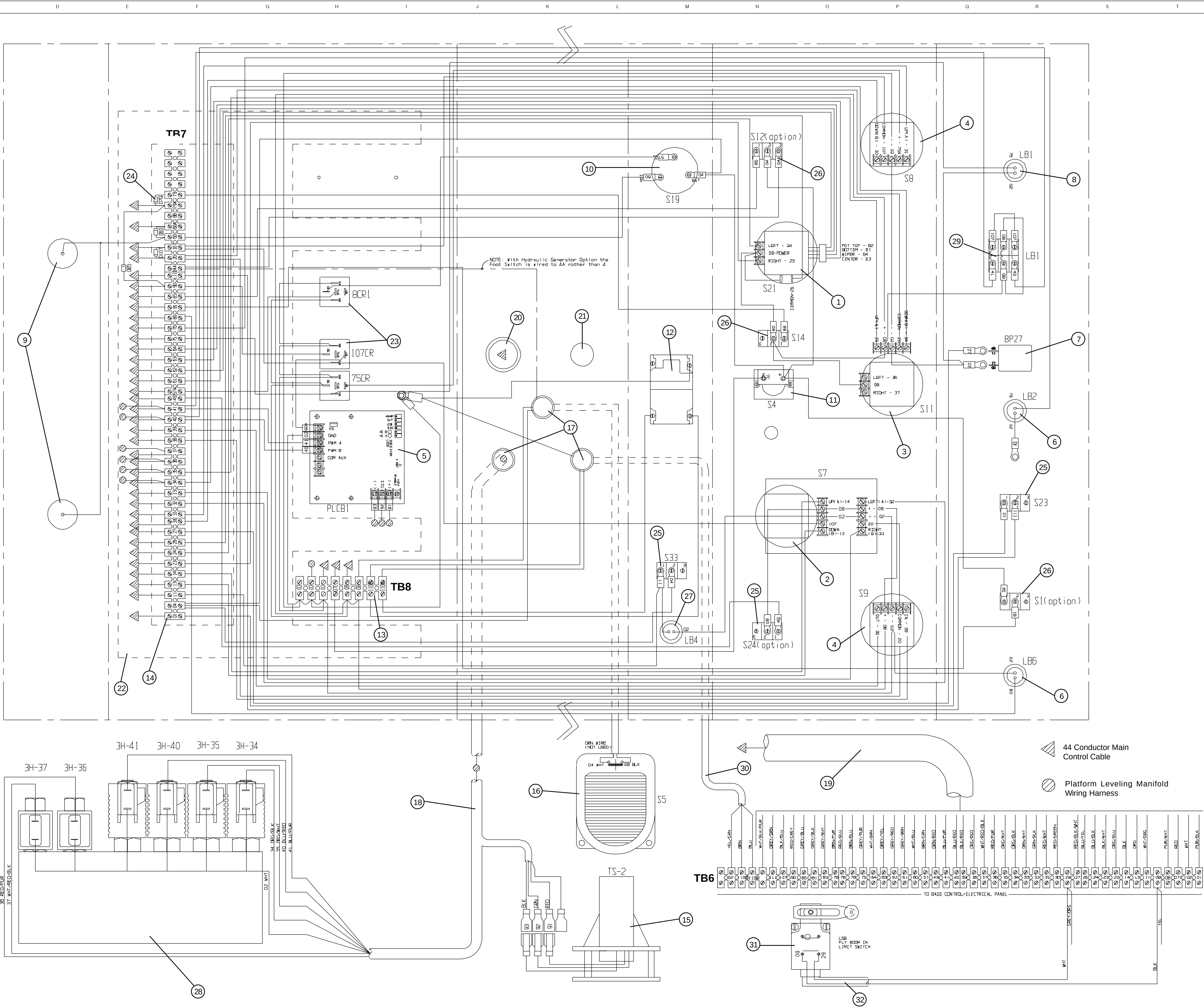
66-300AB

FIGURE 3-1. CONTROL CONSOLE DIAGRAM WITH OPTIONS(Dual Fuel)
(Serial Number 93266 and Below)



MA-66-300

FIGURE 3-2. CONTROL CONSOLE DIAGRAM WITH OPTIONS (Diesel)
(Serial Number 93266 and Below)



MA-66-301

FIGURE 3-2. CONTROL CONSOLE DIAGRAM PARTS LIST WITH OPTIONS (Diesel)

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	702197	CONTROLLER, Drive/steer (For components, refer to Figure 6-5.)	1
2	702198	CONTROLLER, Main lift/turret rotate (For components, refer to Figure 6-6.)	1
3	702199	CONTROLLER, Jib lift/platform rotate (For components, refer to Figure 6-7.)	1
4	702200	CONTROLLER, Knuckle/extension (For components, refer to Figure 6-8.)	2
5	704311	CIRCUIT BOARD, Platform leveling	1
6	701934	LIGHT, Red indicator	2
	703185	• BULB, 12 Volt #1893	1
7	701936	ALARM, Dual	1
	703186	• BULB, 12 Volt #1815	1
8	701935	LIGHT, Green indicator	1
	703185	• BULB, 12 Volt #1893	1
9	701937	LIGHT, Console illumination	2
	703187	• BULB, 12 Volt #67	1
10	701931	SWITCH, Anti-restart ignition	1
11	(Ref.)	SWITCH ASSEMBLY, Emergency stop (For components, refer to Figure 6-4.)	1
12	109698	RECEPTACLE, 110 Volt GFCI	1
13	103011	TERMINAL STRIP, Large (Serial Number 93266 and Below.)	1
14	103012	TERMINAL STRIP, Small (Serial Number 93266 and Below.)	4
15	702168	SENSOR, Platform leveling	1
16	700187	SWITCH, Foot	1
17	103036	STRAIN RELIEF, Strait plastic	4
18	704478	WIRE HARNESS, Platform leveling manifold	1
19	704085	CABLE, 49 Wire main control (Serial Number 93230 and Above.)	1212"
	704085	CABLE, 49 Wire main control (Serial Number 93229 and Below.)	468"
20	702613	STRAIN RELIEF, 1-1/8" Strait	1
21	102956	PLUG, Knockout 7/8"	1
22	702185	WIRE DUCT, 1"	22"
	706421	WIRE DUCT, 1-1/2"	58"
	702186	COVER, 1" Wire duct	80"
23	701943	RELAY, 12 Volt sealed	3
24	700166	DIODE, 1 Amp 400PIV (Serial Number 93266 and Below.)	4
25	701929	SWITCH, Toggle 2 position momentary	3
26	701930	SWITCH, Toggle 2 position maintained	3
27	703720	LIGHT, Amber indicator	
28	704179	MANIFOLD ASSEMBLY, Platform leveling (For components, refer to Figure 6-13.)	1
29	702662	SWITCH, Toggle 2 position momentary DPDT	1
30	704086	CABLE, 12 Ga. 3 wire (Serial Number 93230 and Above.)	1212"
	704086	CABLE, 12 Ga. 3 wire (Serial Number 93229 and Below.)	468"
31	702434	LIMIT SWITCH, Roller arm	1
32	103256	CABLE, 18 Ga. 2 wire	AR
33	707146	END PLATE (Serial Number 93267 and Above.)	1
34	707147	END STOP (Serial Number 93267 and Above.)	2
35	707149	DIN RAIL, For terminal blocks (Serial Number 93267 and Above.)	17/64"
36	707143	TERMINAL BLOCK, thru (Serial Number 93267 and Above.)	43"
37	707144	TERMINAL BLOCK, Ground (Serial Number 93267 and Above.)	3
38	707145	TERMINAL BLOCK, Diode (Serial Number 93267 and Above.)	6

FIGURE 3-3. TURRET WIRING DIAGRAM PARTS LIST

Index No.	Skyjack Part No.	Description							Units per Assy.
		1	2	3	4	5	6	7	
1	703719	BATTERY, 12 Volt engine							1
2	702032	BATTERY, 12 Volt emergency pump							1
3	702532	ISOLATOR, Battery							1
4	700552	SWITCH, Machine tilt							1
5	701926	METER, Amp (in Base Control Panel)							1
6	706512	MANIFOLD, Brake (For components, refer to Figure 6-30.)							1
7	702864	MANIFOLD, Main (For components, refer to Figure 6-31.)							1
8	702614	PUMP MOTOR ASSEMBLY, Emergency							1
9	103011	TERMINAL STRIP, Large							2.5
10	703109	PROPORTIONAL VALVE, 4 Bank							1
11	703058	CONTACTOR, 12 Volt							1
12	706096	CABLE ASSEMBLY, 2 Ga.							1
13	706097	CABLE ASSEMBLY, 2Ga.							1
14	706096	CABLE ASSEMBLY, 2 Ga. (Gas and Dual Fuel)							2
	706099	CABLE ASSEMBLY, 2/0 (Diesel)							2
15	102600	DISCONNECT SWITCH, Battery							2
16	706694	HARNESS ASSEMBLY, Turret wiring							1

FIGURE 3-3. TURRET WIRING DIAGRAM

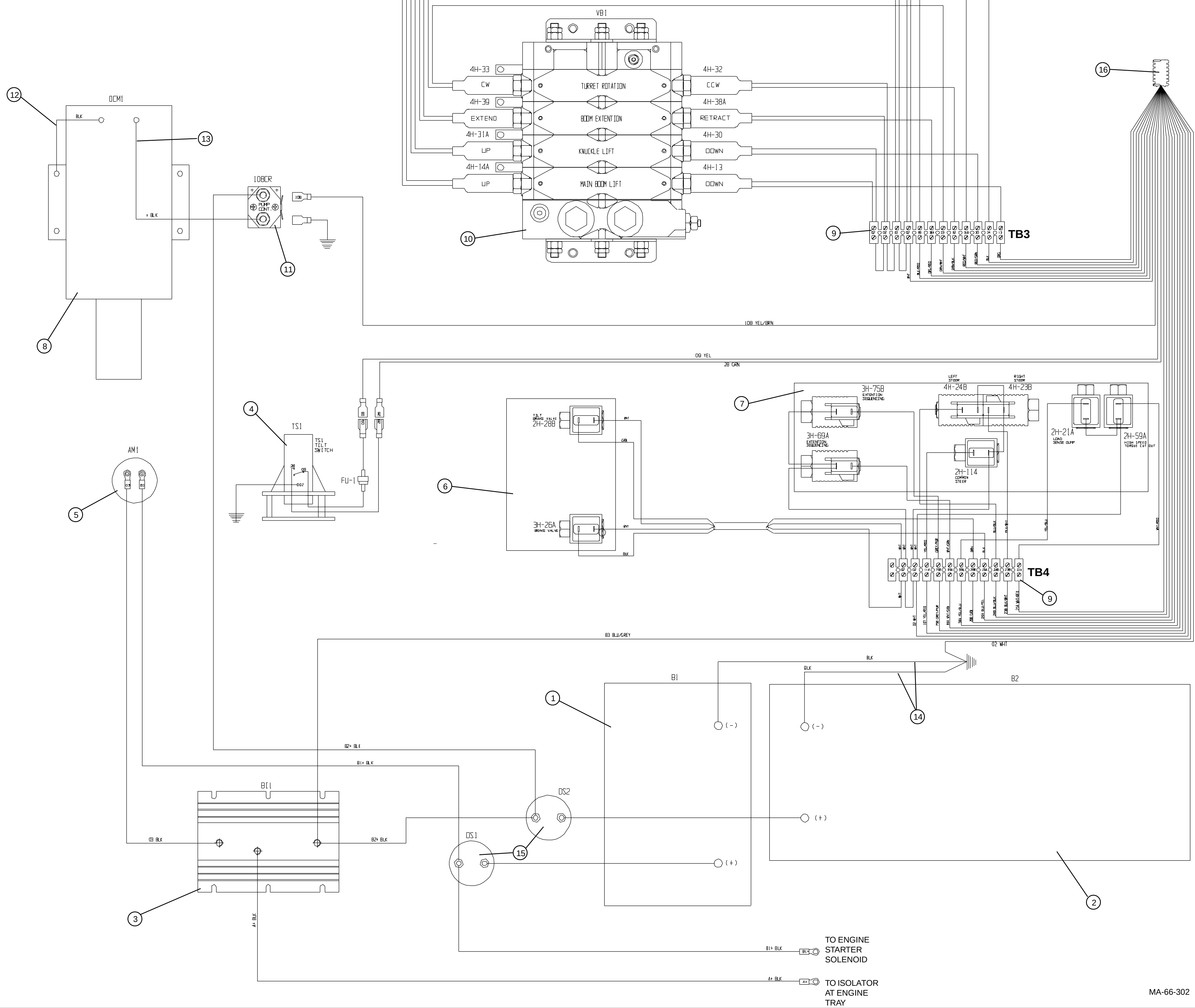


FIGURE 3-4. BASE CONTROL/ELECTRICAL PANEL WIRING DIAGRAM (Serial Number 93267 and Above.)

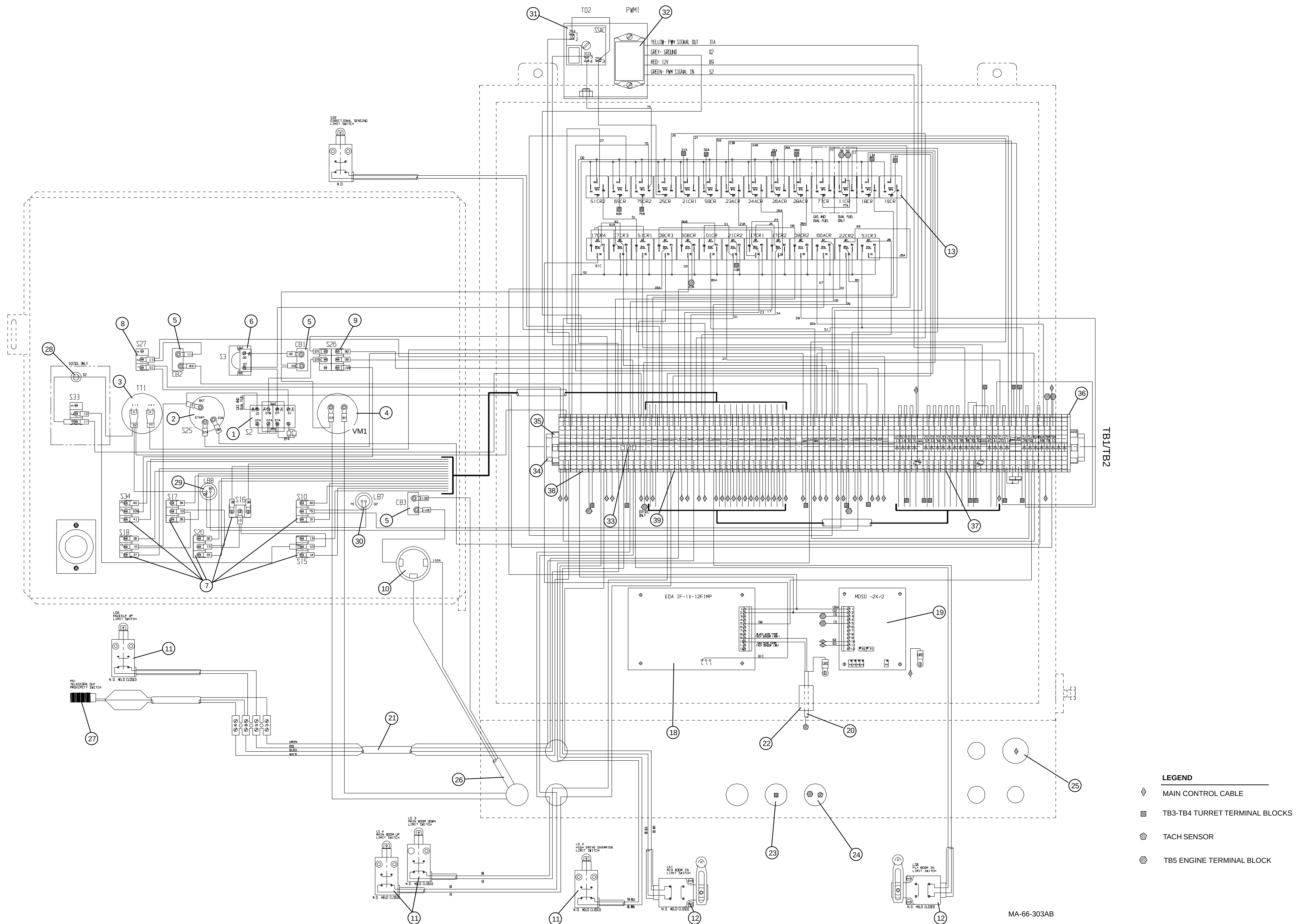
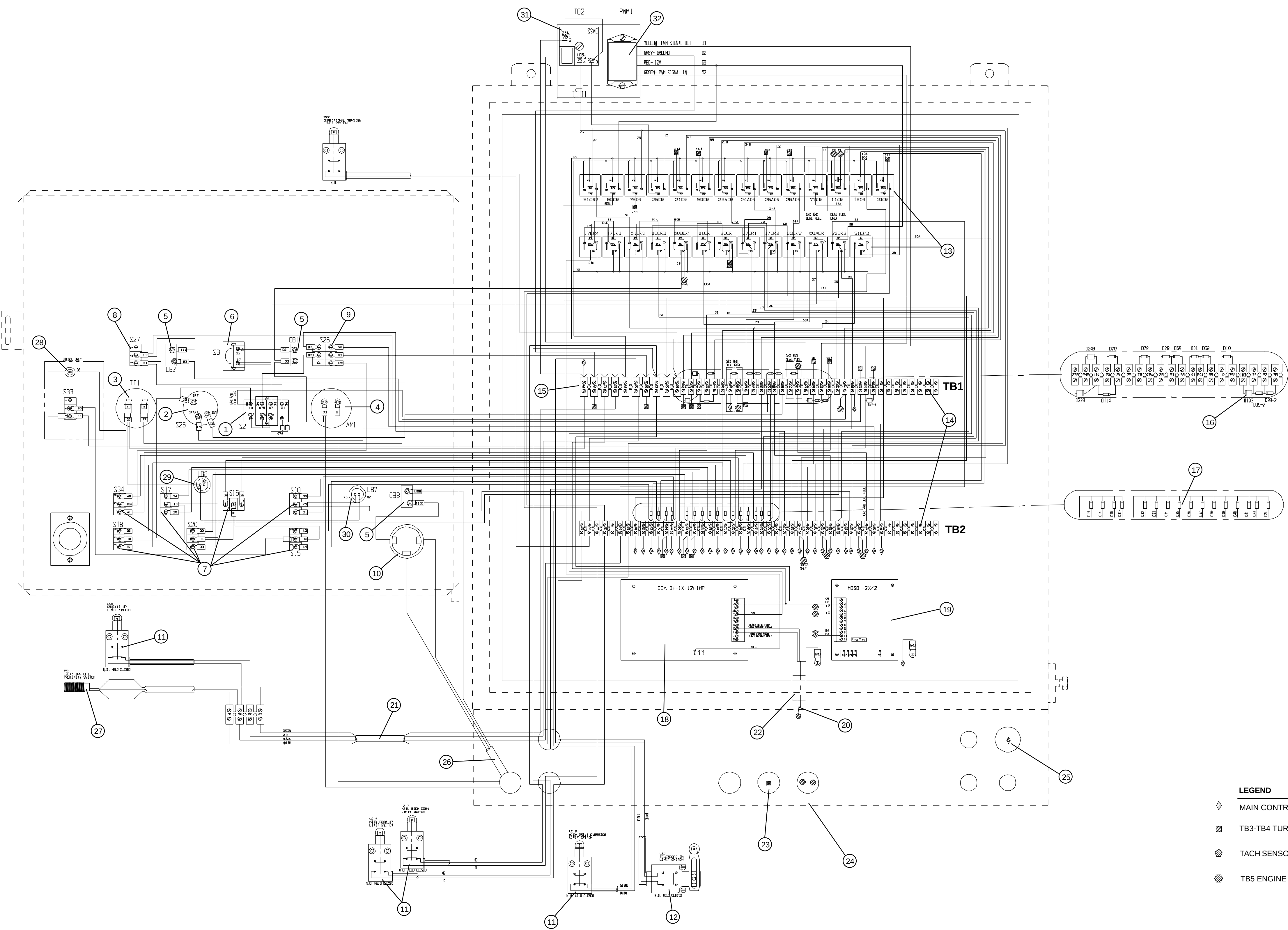


FIGURE 3-4. BASE CONTROL/ELECTRICAL PANEL WIRING DIAGRAM (Serial Number 93266 and Below.)



- LEGEND**
- ◆ MAIN CONTROL CABLE
 - TB3-TB4 TURRET TERMINAL BLOCKS
 - ⬢ TACH SENSOR
 - ⬢ TB5 ENGINE TERMINAL BLOCK

FIGURE 3-4. BASE CONTROL PANEL DIAGRAM PARTS LIST

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	(Ref.)	SWITCH ASSEMBLY, Keyed	1
	102753	• SWITCH HEAD, Keyed	1
	104466	•• KEY, #455	1
	103141	• CONTACT, Switch N.O.	2
	103279	• CONTACT BASE, Switch 2 N.C.	1
	103225	• CONTACT, Switch N.C.	1
2	701931	SWITCH, Anti-restart ignition	1
3	701925	METER, Hour	1
4	704732	METER, Volt (Serial Number 93267 and Above.)	1
	701926	METER, Amp (Serial Number 93266 and Below.)	1
5	702402	BREAKER, 12 Volt/15 amp	3
6	(Ref.)	SWITCH ASSEMBLY, Emergency stop	1
	102769	• SWITCH HEAD, Emergency stop	1
	103281	• CONTACT BASE, Switch N.C.	1
7	102853	SWITCH, Toggle SPDT 3 position momentary	7
8	701929	SWITCH, Toggle SPDT 2 position momentary	AR
9	703005	SWITCH, Toggle DPDT 2 position momentary	1
10	105271	PLUG, Recessed male 110 volt	1
	103227	• PROTECTOR BOOT, Rubber	1
11	706294	LIMIT SWITCH, Plunger	4
12	702434	LIMIT SWITCH, Roller arm	2
13	701943	RELAY, 12 Volt sealed	AR
14	103012	TERMINAL STRIP, Small (Serial Number 93266 and Below.)	7
15	103011	TERMINAL STRIP, Large (Serial Number 93266 and Below.)	1
16	102921	DIODE, 6 Amp/1000PIV (Serial Number 93266 and Below.)	AR
17	700166	DIODE, 1 Amp/400PIV (Serial Number 93266 and Below.)	AR
18	701547	CARD, EDA Controller	1
		• FUSE, 250 Volt, 3 amp	1
19	701546	CARD, MDSD Dual driver	1
		• FUSE, 125 Volt, 4 amp	1
20	700165	CABLE, 22/2 Shielded	240"
21	103255	CABLE, 18/4	408"
22	706074	CORE, Snap on ferrite	1
23	706694	HARNESS, Turret wiring	1
24	704251	HARNESS, Engine wiring	1
25	704085	CABLE, 44 Conductor control (Serial Number 93230 and Above.)	1212"
	704085	CABLE, 44 Conductor control (Serial Number 93229 and Below.)	795"
26	704086	CABLE, 3 Conductor 12 ga (Serial Number 93230 and Above.)	1212"
	704086	CABLE, 3 Conductor 12 ga. (Serial Number 93229 and Below.)	795"
27	703054	SWITCH, Proximity	1
28	703720	LIGHT, Amber indicator	1
29	701934	LIGHT, Red indicator	1
	703185	• BULB, 12 Volt #1893	1
30	701934	LIGHT, Green indicator	1
	703185	• BULB, 12 Volt #1893	1
31	706213	RELAY, Time delay	1
32	706649	BUFFER, Signal	1
33	707148	ADJUSTMENT JUMPER, Terminal block (Serial Number 93267 and Above.)	3
34	707149	DIN RAIL, Terminal block (Serial Number 93267 and Above.)	1/4"
35	707147	END STOP (Serial Number 93267 and Above.)	2
36	707146	END PLATE (Serial Number 93267 and Above.)	1
37	707145	TERMINAL BLOCK, Diode (Serial Number 93267 and Above.)	26
38	707144	TERMINAL BLOCK, Ground (Serial Number 93267 and Above.)	5
39	707143	TERMINAL BLOCK, Thru (Serial Number 93267 and Above.)	57

FIGURE 3-5. ENGINE COMPARTMENT WIRING DIAGRAM PARTS LIST (Gas and dual fuel)

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	701643	THROTTLE CONTROL, Engine	1
2	701929	SWITCH, Toggle SPDT 2 position momentary	2
3	704251	HARNESS ASSEMBY, Engine wire	1
4	700165	• CABLE, 22/2 Shielded	240"
5	702314	BREAKER, 12 Volt 15 amp	1
6	FORD	TERMINAL STRIP	2
7	115389	SENSOR, Magnetic tachometer	1
8	703866	SENSOR, Coolant temperature	1
9	FORD	SWITCH, 6 PSI Oil pressure	1
10	FORD	RELAY, 12 Volt starter	1
11	FORD	WIRING HARNESS, Alternator	1
12	703864	ACTUATOR, Rotary (Governor)	1
13	704616	RELAY, Time delay	1

FIGURE 3-5. ENGINE COMPARTMENT WIRING DIAGRAM (Dual fuel)

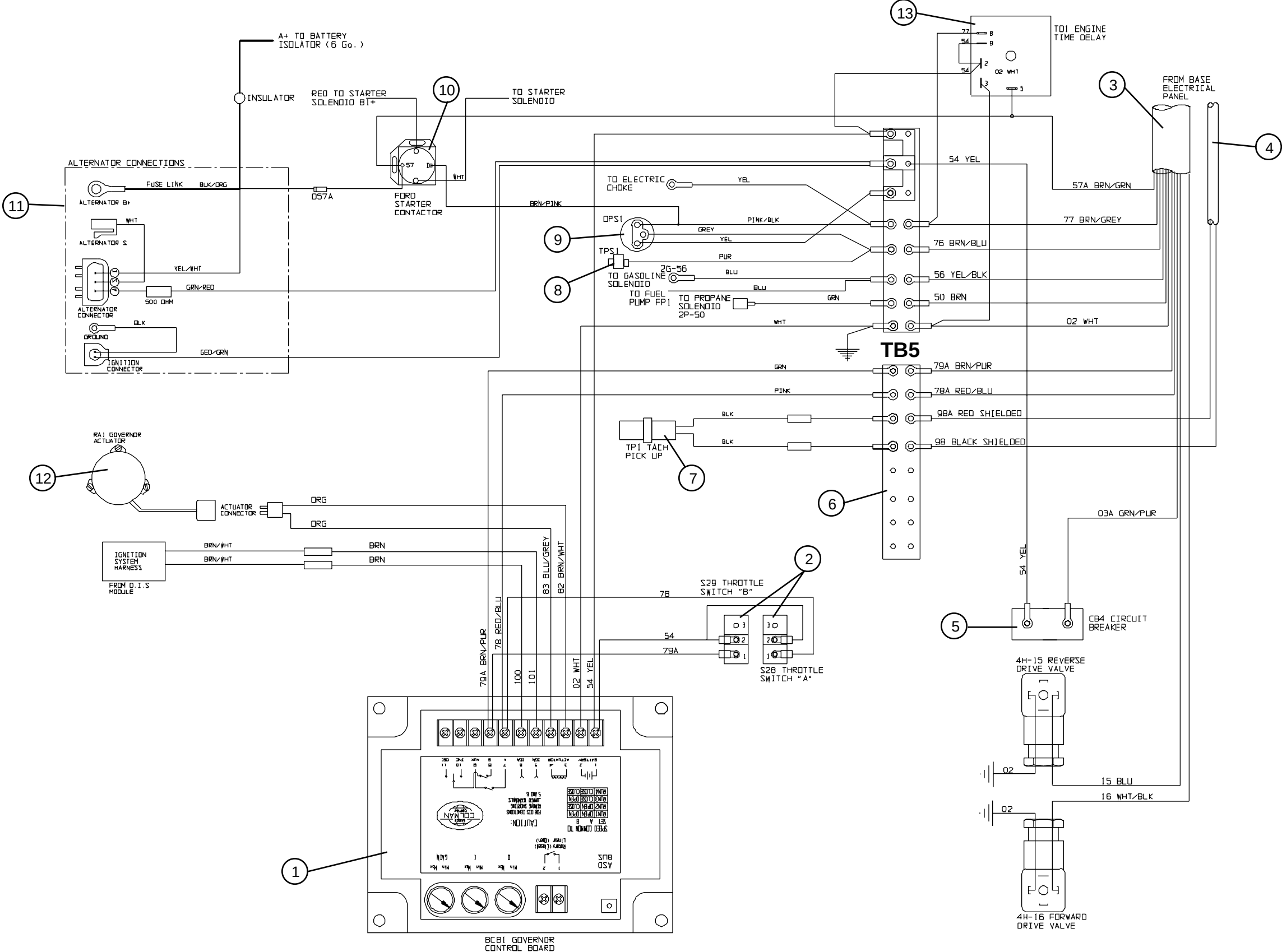


FIGURE 3-6. ENGINE COMPARTMENT WIRING DIAGRAM (Deutz diesel)

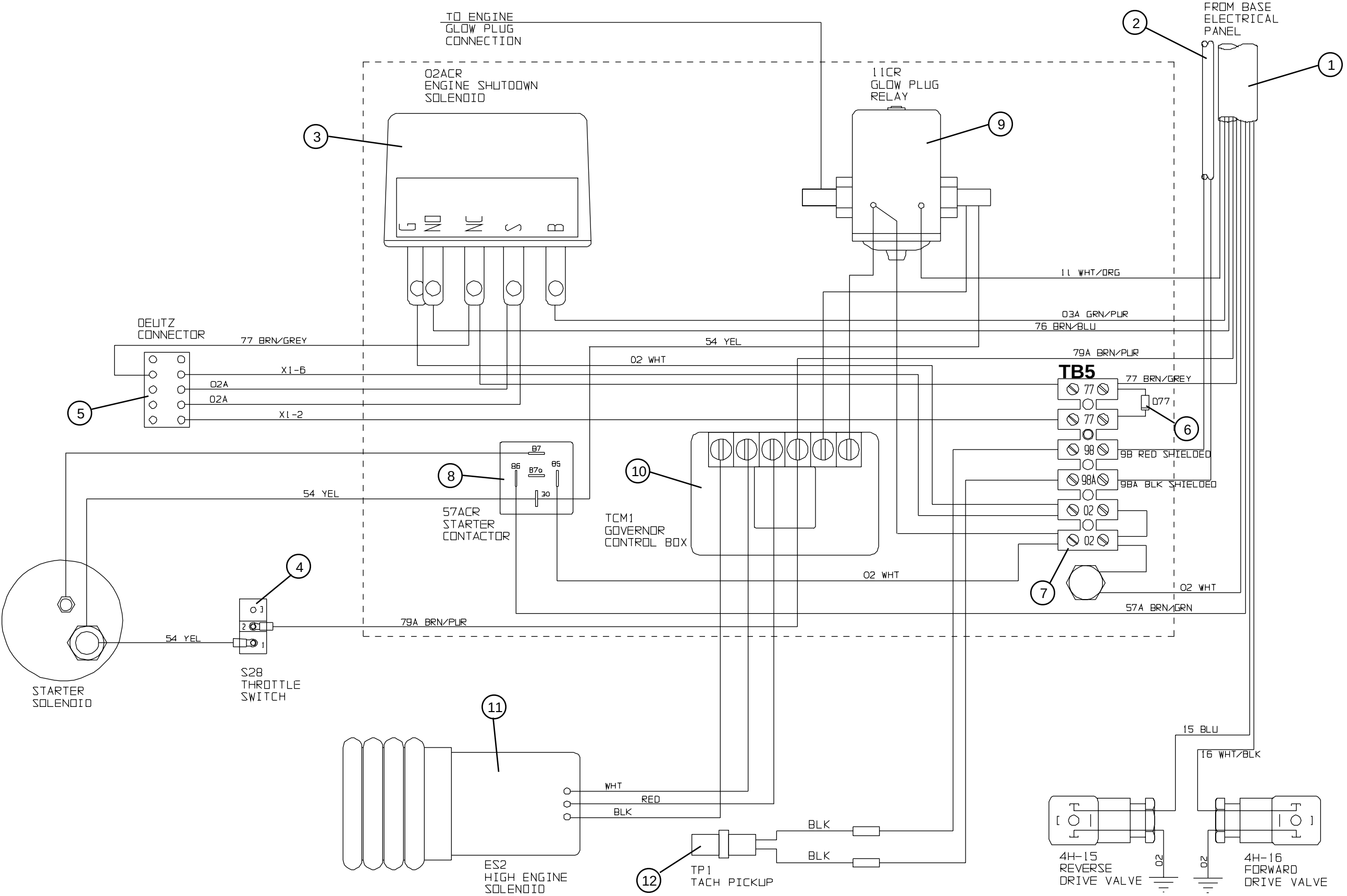


FIGURE 3-6. ENGINE COMPARTMENT WIRING DIAGRAM PARTS LIST (Deutz diesel)

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	704251	HARNESS ASSEMBLY, Engine	1
2	700165	• CABLE, 22/2 Shielded	240"
3	703179	SWITCH, Engine	1
4	701929	SWITCH, Toggle 2 position momentary	1
5	DEUTZ	CONNECTOR, 10 Pole engine	1
6	102921	DIODE, 6 Amp/1000PIV	1
7	103012	TERMINAL STRIP, Small	1
8	701943	RELAY, 12 Volt sealed	1
9	703437	CONTACTOR, 12 Volt 80 amp	1
10	703348	MODULE, Throttle control	1
11	703347	ACTUATOR, Throttle control	1
12	115389	SENSOR, Magnetic tachometer	1

NOTES

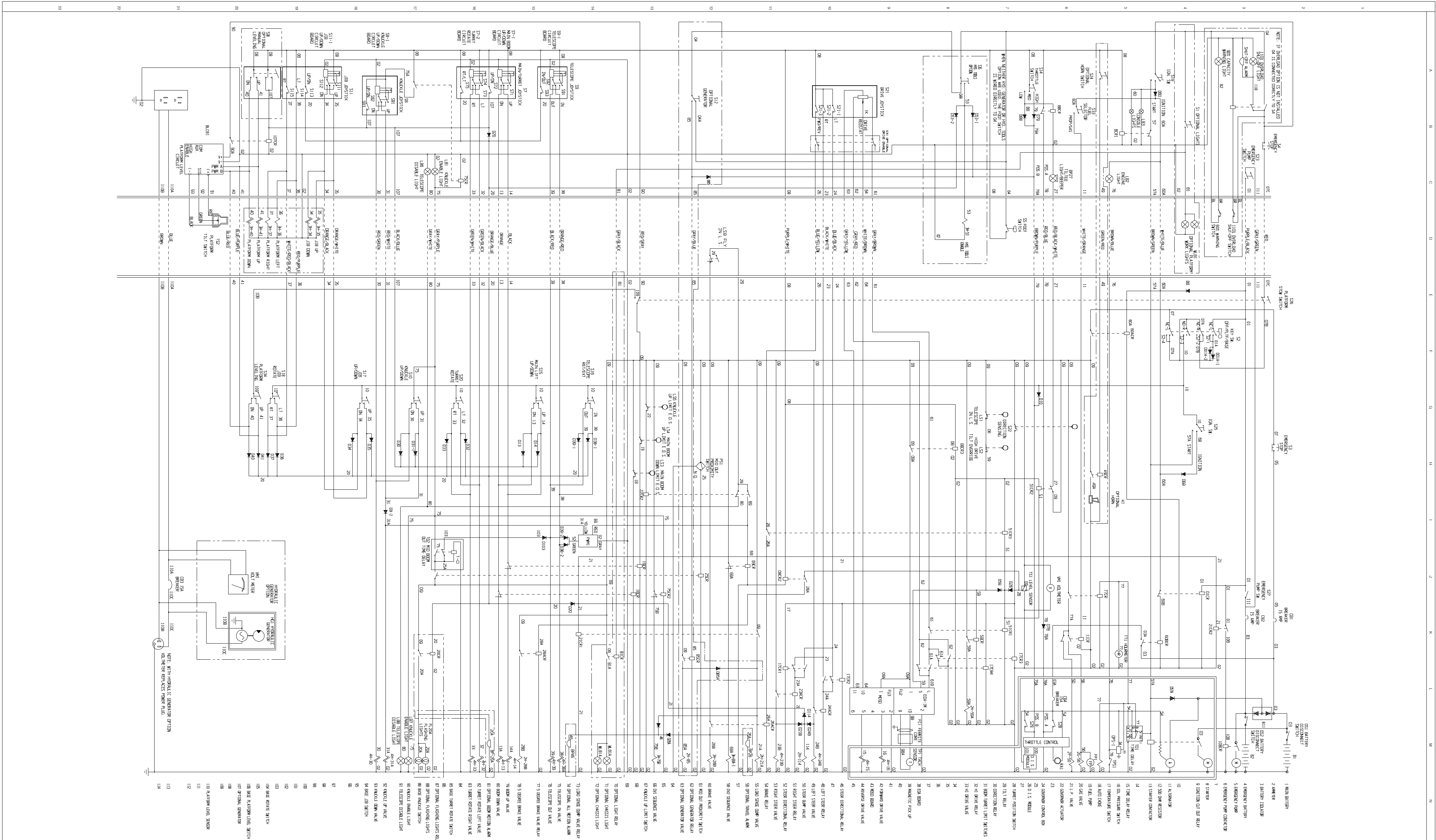


FIGURE 3-7. ELECTRICAL SCHEMATIC (Dual fuel)(Serial Number 93266 and Below)

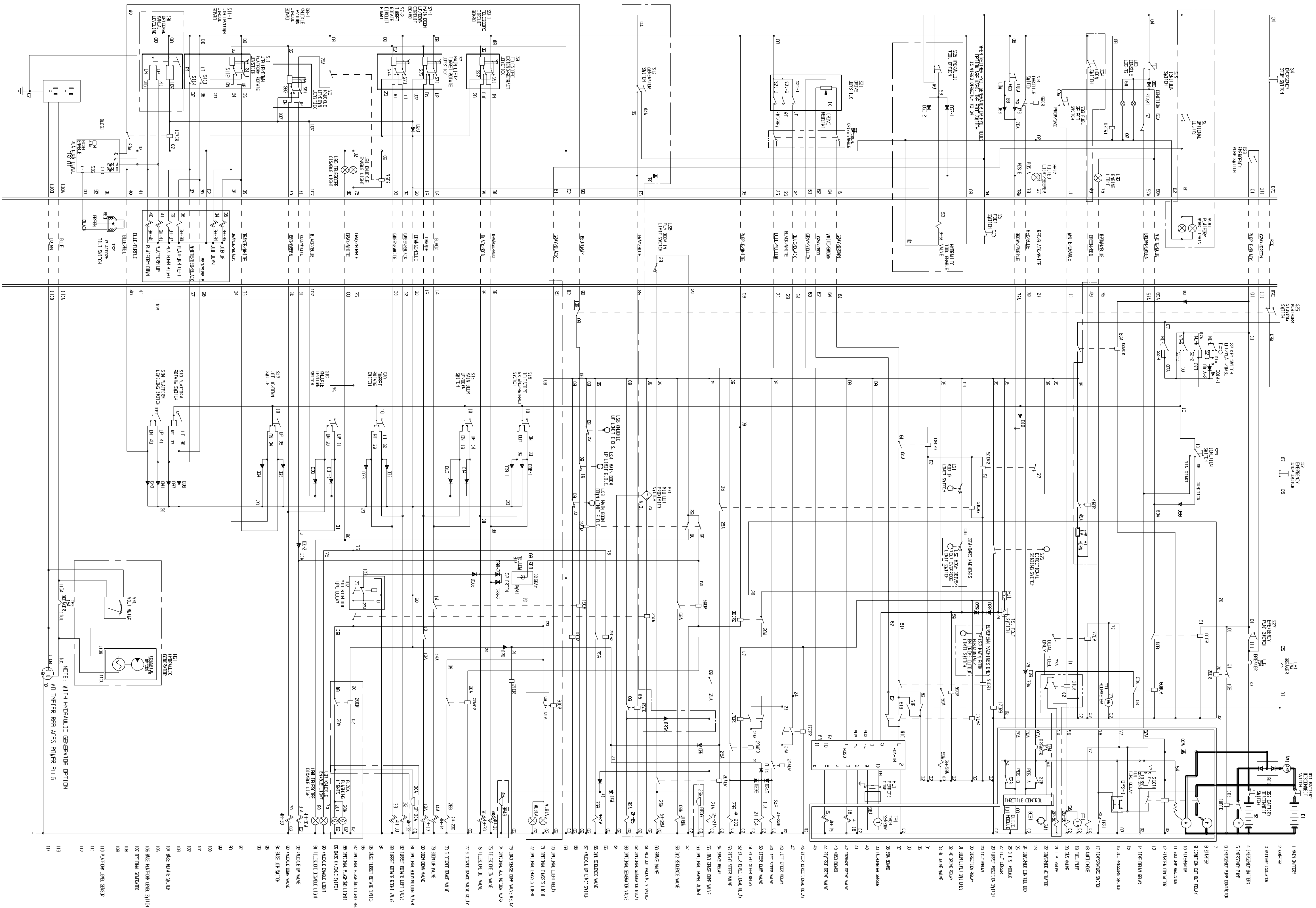


FIGURE 3-8. ELECTRICAL SCHEMATIC (Deutz diesel)(Serial Number 93267 and Above)

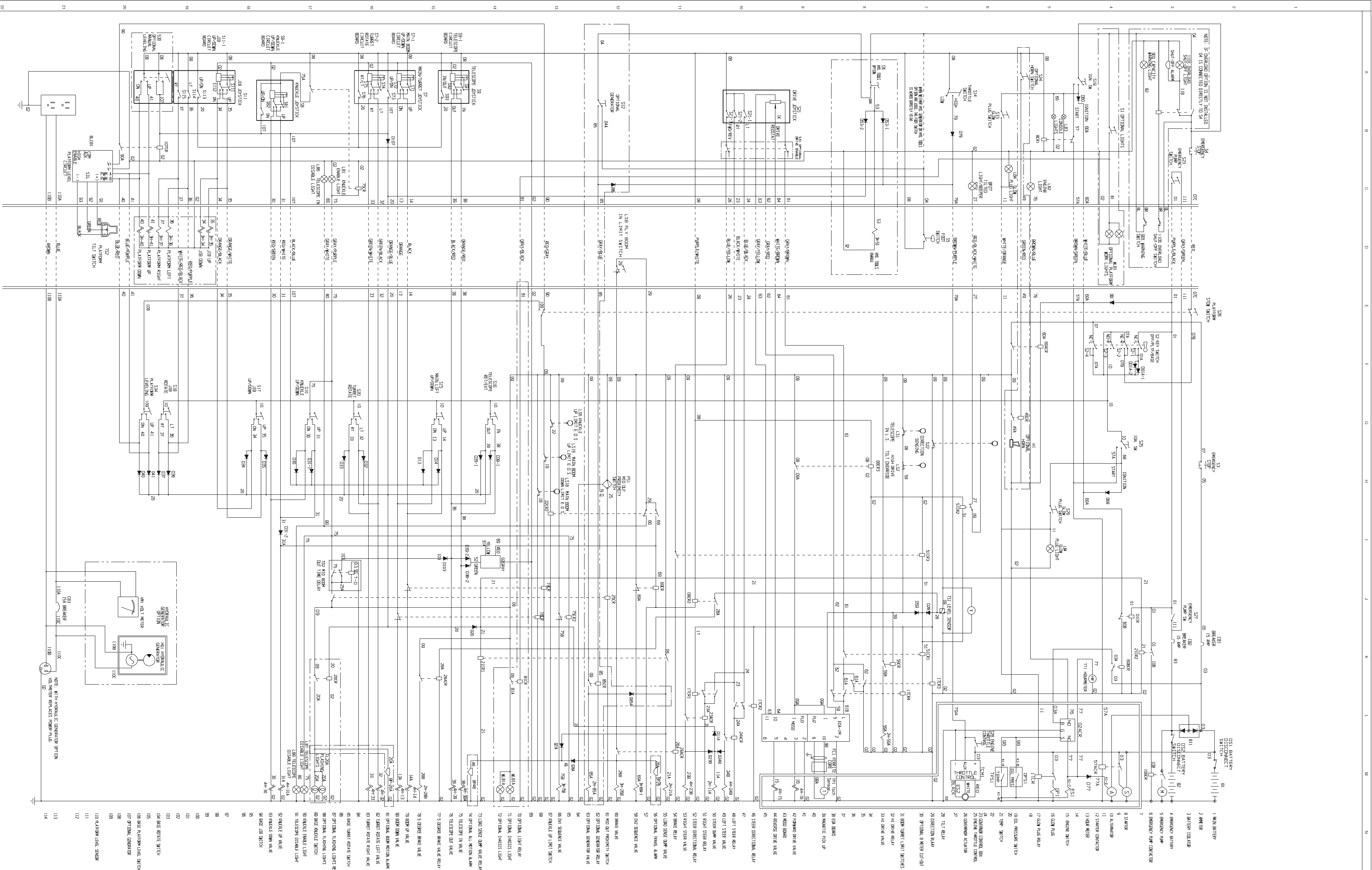


FIGURE 3-8. ELECTRICAL SCHEMATIC (Deutz diesel)(Serial Number 93266 and Below)

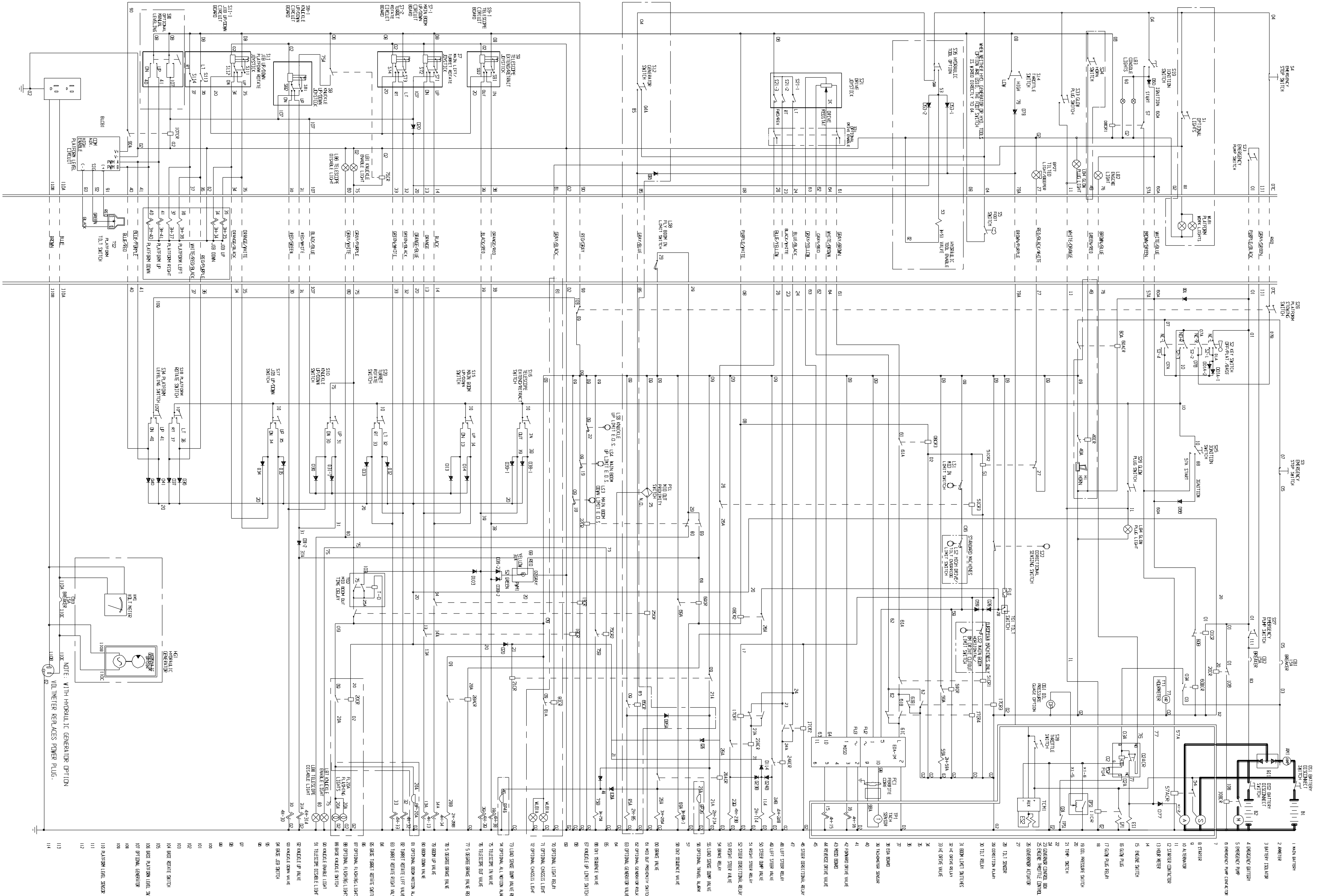


FIGURE 3-7/FIGURE 3-8. ELECTRICAL SCHEMATIC PARTS LIST

Ref. No.	Skyjack Part No.	Description	Units per Assy
		1 2 3 4 5 6 7	
01CR	701943	RELAY, 12 Volt sealed	1
02ACR	703179	RELAY, Engine time delay (diesel)	1
57ACR	701943	RELAY, 12 Volt sealed (diesel)	1
08CR1 THRU 107CR	701943	RELAY,12 Volt sealed	AR
11CR	701943	RELAY, 12 Volt sealed (gas/dual fuel)	1
11CR	703437	RELAY, 12 Volt 80 amp (diesel)	1
108CR	703058	CONTACTOR, 12 Volt	1
2G56	117108	VALVE, Gas (dual fuel)	1
2H114	703814	VALVE, Steering dump	1
2H21A	703190	VALVE, Load sense dump	1
2H28B	703190	VALVE, 5° Braking	1
2H59A	703190	VALVE, High drive	1
2H85A	703867	VALVE, Hydraulic generator (option)	1
2P50	107444	VALVE, Propane (dual fuel)	1
3H26A	703189	VALVE, Parking brake	1
3H34	703798	VALVE, Jib down	1
3H35	703798	VALVE, Jib up	1
3H36	703189	VALVE, Platform/jib rotate left	1
3H37	703189	VALVE, Platform/jib rotate right	1
3H40	703799	VALVE, Platform down	1
3H41	703800	VALVE, Platform up	1
4H13	703820	VALVE, Boom down	1
4H14	703820	VALVE, Boom up	1
4H15	\$	DRIVE VALVE, Reverse	1
4H16	\$	DRIVE VALVE, Forward	1
4H23B	703812	VALVE, Right steer	1
4H24B	703812	VALVE, Left steer	1
4H30	703822	VALVE, Knuckle down	1
4H31A	703822	VALVE, Knuckle up	1
4H32	703822	VALVE, Turret rotate left	1
4H33	703822	VALVE, Turret rotate right	1
4H38A	703819	VALVE, Retract	1
4H39A	703819	VALVE, Extend	1
AM1	701926	METER, Amp (Serial Number 93266 and Below)	1
B1	703719	BATTERY, 12 Volt engine start	1
B2	702032	BATTERY, 12 Volt emergency pump	1
BCB1	701643	CONTROL BOX, Governor (gas and dual fuel)	1
BI1	702532	ISOLATOR, Battery	1
BP20A	703321	BEEPER, Boom motion alarm (option)	1
BP46	703321	BEEPER, All motion alarm (option)	1
BP26	703321	BEEPER, Travel alarm (option)	1
BP27	701936	BEEPER/LIGHT, Tilt warning	1
CB1-CB3	702402	BREAKER, Circuit 15 amp	3
CB4	702314	BREAKER, Circuit (gas and dual fuel)	1
DO1A-1	102921	DIODE, 6 Amp/1000 piv	1
DO1A-2	102921	DIODE, 6 Amp/1000 piv	1
DO1 - DO23	700166	DIODE, 1 Amp/400 piv	8
D23B	102921	DIODE, 6 Amp/1000 piv	1
D24B	102921	DIODE, 6 Amp/1000 piv	1
D26 - D31	700166	DIODE, 1 Amp/400 piv	4
D31-3	102921	DIODE, 6 Amp/1000 piv	1
D32 - D88	700166	DIODE, 1 Amp/400 piv	AR
DS1-DS2	102600	DISCONNECT SWITCH, Battery	2
FC1	706074	CORE, Snap on ferrite	1
FL20A	703323	LIGHT, Flashing (option)	2
FP1	115387	PUMP, Fuel (gas and dual fuel)	1
FU1	114866	FUSE, 250 Volt/1 amp	1
FU2	\$	FUSE, EDA board, 250 volt/3 amp	1
FU3	\$	FUSE, MDSD board, 125 volt/4 amp	1
FU4	\$	FUSE, Engine switch (diesel)	1
H1	703322	HORN, 12 Volt (option)	1

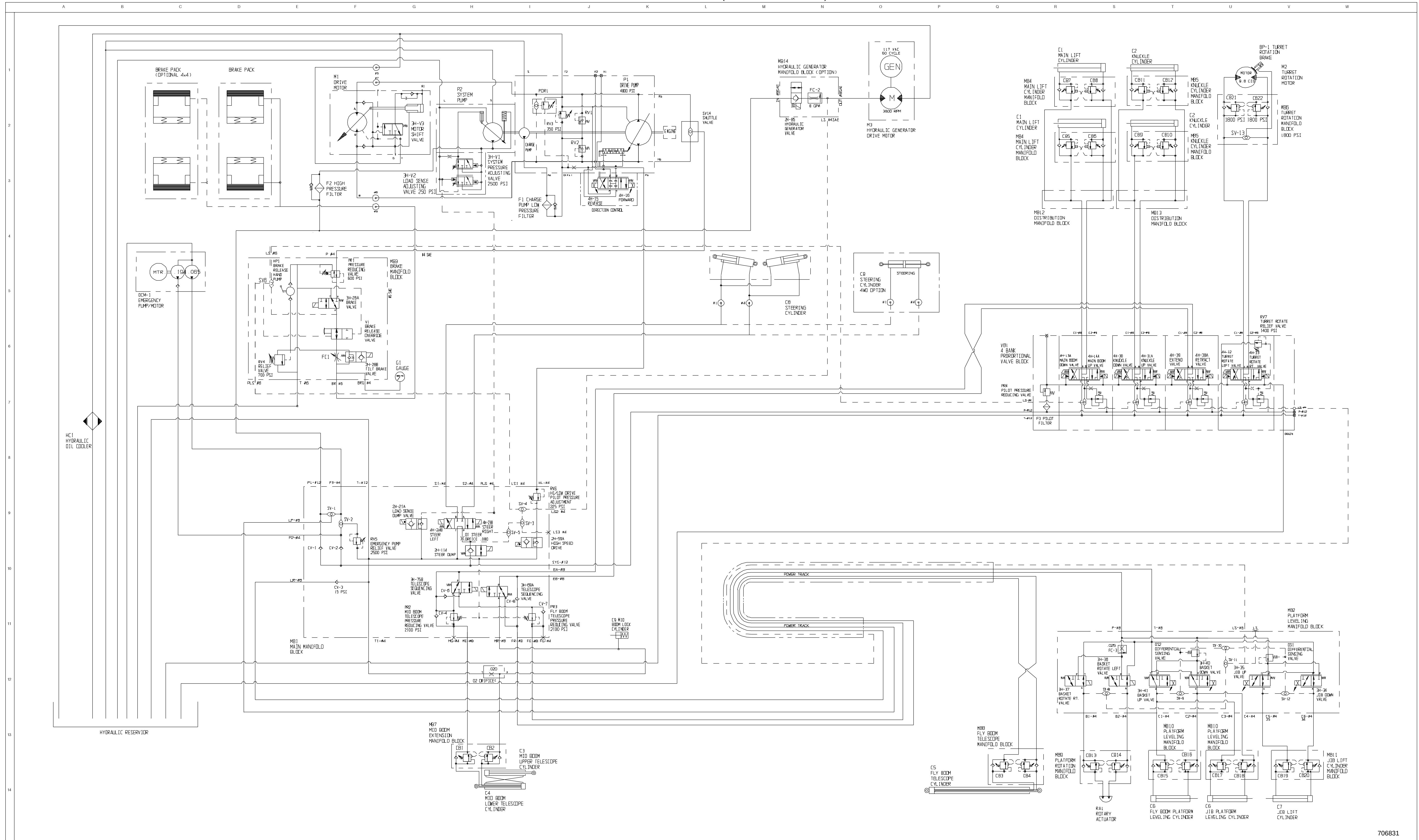
SJB-66TK, Serial Number 93198 and above

Ref. No.	Skyjack Part No.	Description	Units per Assy
		1 2 3 4 5 6 7	
LB1	701935	LIGHT, Knuckle enable (platform)	1
LB2	701934	LIGHT, Engine oil/temp	1
LB3	701937	LIGHTS, Console	2
LB4	703720	LIGHT, Glow plug (diesel)	2
LB6	701934	LIGHT, Retract dissable (platform)	1
LB7	701935	LIGHT, Knuckle enable (base)	1
LB8	701934	LIGHT, Retract dissable (base)	1
LS1	702434	LIMIT SWITCH, Telescope in	1
LS2	706294	LIMIT SWITCH, High speed override	1
LS3-LS4	706294	LIMIT SWITCH,Main Up and Main Down	2
LS6	706294	LIMIT SWITCH, Knuckle up	1
OPS1	\$	SWITCH, Engine oil pressure	1
PLCB1	704311	CIRCUIT BOARD, Auto platform leveling	1
PS1	703054	PROXIMITY SWITCH, Telescope out	1
PWM1	706649	BUFFER, Signal	1
RA1	703864	ROTARY, Actuator (gas and dual fuel)	1
S1	701930	SWITCH, Lights (option)	1
S10	102853	SWITCH, Knuckle up/down	1
S11	702199	CONTROLLER, Jib/platform	1
S11-1	702173	CIRCUIT BOARD, Controller	
S12	701930	SWITCH, Hydraulic generator (option)	1
S14	701933	SWITCH, Throttle control (gas and dual fuel)	1
	701930	SWITCH, Throttle control (diesel)	1
S15	102853	SWITCH, Main lift	1
S16	102853	SWITCH, Extend/retract	1
S17	102853	SWITCH, Jib lift	1
S18	102853	SWITCH, Platform/jib rotate	1
S19	701931	SWITCH, Ignition (platform)	1
S2	(Ref.)	SWITCH ASSEMBLY, Key	1
S20	102853	SWITCH, Turret rotation	1
S21	702197	CONTROLLER, Drive/steer	1
S22	111356	LIMIT SWITCH, Directional sensing	1
S23	(Ref.)	SWITCH ASSEMBLY, Emergency pump (platform)	1
S24	701929	SWITCH, Horn (option)	1
S25	701931	SWITCH, Ignition (base)	1
S26	701929	SWITCH, Platform stowing	1
S27	701929	SWITCH ASSEMBLY, Emergency pump (base)	1
S28	701929	SWITCH, Throttle controle (base)	1
S29	701929	SWITCH, Throttle controle (base)	1
S3	(Ref.)	SWITCH ASSEMBLY, Emergency stop (base)	1
S30	702662	SWITCH, Platform leveling	1
S31	703005	SWITCH, Drive enable (option)	
S33	701930	SWITCH, Fuel select (dual fuel)	1
	701929	SWITCH, Glow plug (platform)(diesel)	1
S34	102853	SWITCH, Platform leveling	1
S4	(Ref.)	SWITCH ASSEMBLY, Emergency stop (platform)	1
S5	700187	FOOT SWITCH	1
S7	702198	CONTROLLER, Main lift/turret rotate	1
S7-1	703176	CIRCUIT BOARD, Controller	1
S7-2	703176	CIRCUIT BOARD, Controller	1
S8	702200	CONTROLLER, Knuckle	1
S8-1	703170	CIRCUIT BOARD, Controller	1
S9	702200	CONTROLLER, Extend/retract	1
S9-1	703170	CIRCUIT BOARD, Controller	1
TD1	704616	RELAY, Engine time delay	1
TD2	706213	RELAY, Telescope boom time delay	1
TP1	115389	PICKUP, Magnetic tachometer	1
TPS1	\$	SWITCH, Engine temperature	1
TS1	700552	TILT SWITCH, Machine	1
TS2	702168	SENSOR, Auto leveling	1
TT1	701925	METER, Hour	1
V	794732	METER, Volt (Serial Number 93267 and Above)	1
WL81	\$	LIGHTS, Platform (option)	2
WL81A	703545	LIGHTS, Chassis (option)	2
		\$ - Consult Factory	

FIGURE 3-9/FIGURE 3-10. HYDRAULIC SCHEMATIC PARTS LIST

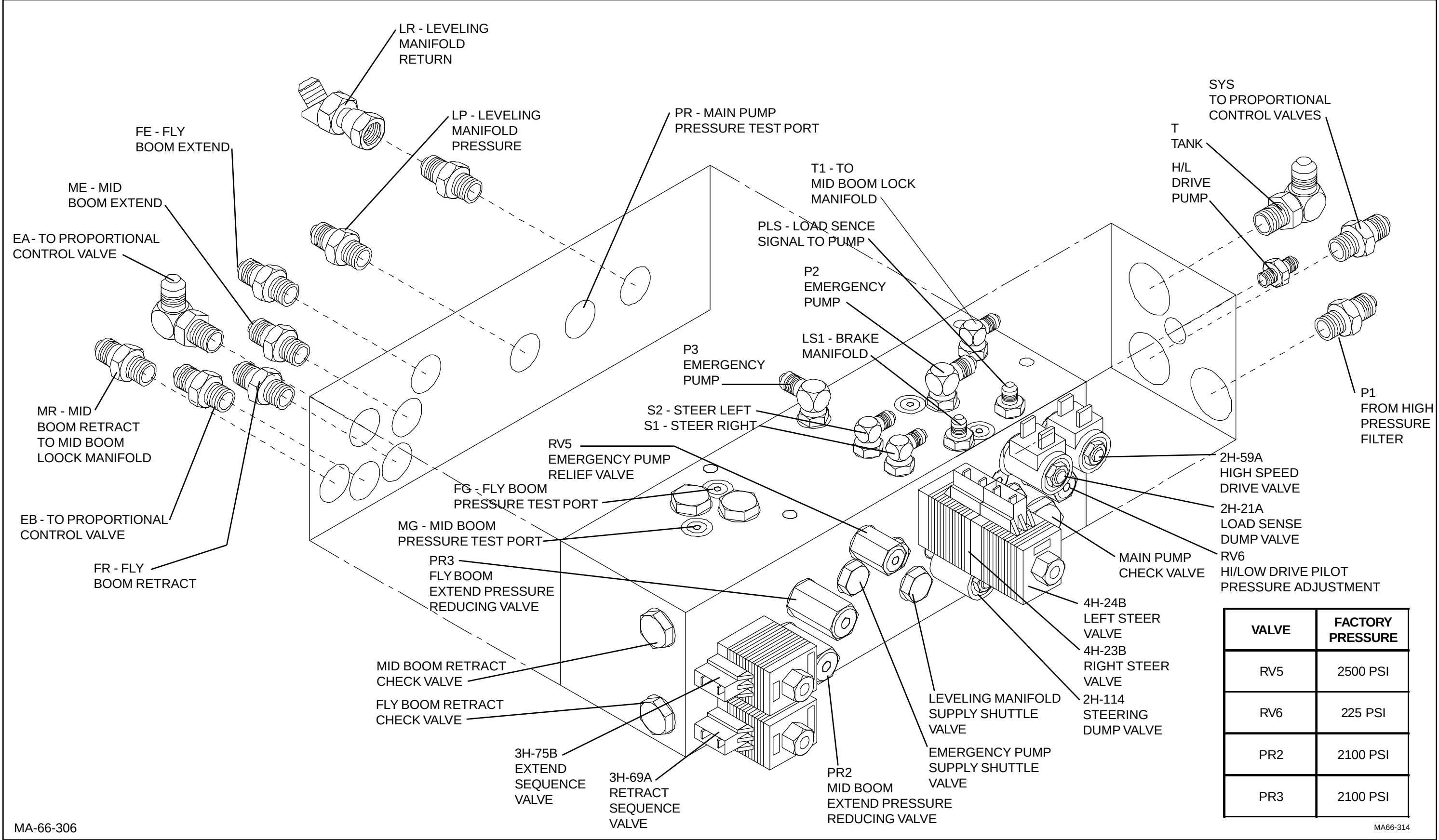
Ref. No.	Skyjack Part No.	Description	Units per Assy	Ref. No.	Skyjack Part No.	Description	Units per Assy
		1 2 3 4 5 6 7				1 2 3 4 5 6 7	
C1	701991	CYLINDER ASSEMBLY, Main lift	2	3H-40	703799	VALVE, Platform leveling down	1
	702643	• KIT, Seal repair	AR	3H-41	703800	VALVE, Platform leveling up	1
C2	701375	CYLINDER ASSEMBLY, Knuckle	2	3H-75B	703808	VALVE, Extension sequencing	1
	702644	• KIT, Seal repair	AR	3H-69A	703808	VALVE, Retraction sequencing	1
C3	702052	CYLINDER ASSEMBLY, Mid boom extension upper	1	3H-26A	703189	VALVE, Brake	1
	702645	• KIT, Seal repair	AR	3H-V1	\$	VALVE, System pressure adjusting	1
C4	702043	CYLINDER ASSEMBLY, Mid boom extension lower	1	3H-V2	\$	VALVE, Load sense adjusting	1
	702645	• KIT, Seal repair	AR	3H-V3	\$	VALVE, Drive motor shift	1
C5	701912	CYLINDER ASSEMBLY, Fly boom extension	1	4H-15	\$	VALVE, Reverse drive (Includes 4H-16)	1
	702645	• KIT, Seal repair	AR	4H-16	\$	VALVE, Forward drive (Includes 4H-15)	1
C6	702153	CYLINDER ASSEMBLY, Platform leveling	2	4H-32	703822	VALVE, Turret rotate left (Includes 4H-33)	1
	702644	• KIT, Seal repair	AR	4H-33	703822	VALVE, Turret rotate right (Includes 4H-32)	1
C7	702143	CYLINDER ASSEMBLY, Jib lift	1	4H-38A	703821	VALVE, Boom extend (Includes 4H-39)	1
	702642	• KIT, Seal repair	AR	4H-39	703821	VALVE, Boom retract (Includes 4H-38)	1
C8	702913	CYLINDER ASSEMBLY, Steering (2WD models)	2	4H-23B	703812	VALVE, Steering right (Includes 4H-48)	1
	703180	• KIT, Seal repair	AR	4H-24B	703812	VALVE, Steering Left (Includes 4H-47)	1
	706537	CYLINDER ASSEMBLY, Steering (4WD models)	1	4H-13A	703819	VALVE, Main boom down (Includes 4H-71)	1
		(For components, refer to Figure 6-50.)		4H-14A	703819	VALVE, Main boom up (Includes 4H-70)	1
	706538	• Kit, Seal repair	AR	4H-30	703820	VALVE, Knuckle down (Includes 4H-73)	1
C9	706677	CYLINDER ASSEMBLY, Mid boom lock	1	4H-31A	703820	VALVE, Knuckle up (Includes 4H-72)	1
	706547	•KIT, Seal repair	AR	M1	701544	MOTOR, Drive	1
CB1-20	701827	VALVE, Counterbalance 3000 psi	20	M2	702992	MOTOR, Turret rotation	1
CB21-22	706384	VALVE, Counterbalance 1800 psi	2	M3	\$	MOTOR, Hydraulic generator (option)	1
CV1	703817	VALVE, Check	1	O1	703811	ORIFICE, .080	1
CV2-3	703815	VALVE, Check	2	O2	706712	ORIFICE, .020	1
CV4-8	703809	VALVE, Check	4	P1	701543	PUMP, Drive	1
CV9	703198	VALVE, Check	1	P2	701545	PUMP, System	1
DCM1	702614	PUMP/MOTOR ASSEMBLY, Emergency	1	POR1	710840	VALVE, Pressure override	1
DS1-2	703801	VALVE, Differential sensing	2	PR1	703191	VALVE, Brake system pressure reducing	1
F1	702033	FILTER ASSEMBLY, Charge pump	1	PR2	703810	VALVE, Mid boom extension pressure reducing	1
	703047	• ELEMENT, Filter	1	PR3	703810	VALVE, Fly boom extension pressure reducing	1
F2	702034	FILTER ASSEMBLY, High pressure	1	PR4	703818	VALVE, Pilot pressure reducing	1
	703825	• ELEMENT, Filter	1	RA1	702061	ACTUATOR, Platform rotation	1
FC1	706026	VALVE, Flow control, brake	1		701876	• KIT, Seal repair	AR
FC2	703868	VALVE, Flow control, hydraulic generator	1	RV1	\$	VALVE, Drive relief	1
FC3	703802	VALVE, Flow control, platform rotate	1	RV2	\$	VALVE, Drive relief	1
HC1	702031	COOLER, Hydraulic oil	1	RV3	\$	VALVE, Charge pump relief	1
HP1	703193	HAND PUMP, Brake release	1	RV4	703194	VALVE, Brake relief	1
2H-21A	703190	VALVE, Load sense dump	1	RV5	703807	VALVE, Emergency pump relief	1
2H-59A	703190	VALVE, High speed drive	1	RV6	703813	VALVE, High speed drive relief	1
2H-85	703867	VALVE, Hydraulic generator (option)	1	RV7	\$	VALVE, Turret rotate relief	1
2H-28B	703190	VALVE, Tilt braking	1	SV1-2	703816	VALVE, Load sense shuttle	2
2H-114	703814	VALVE, Steering dump	1	SV3-12	703197	VALVE, Load sense shuttle	10
3H-34	703798	VALVE, Jib down	1	SV13	703030	VALVE, Load sense shuttle	1
3H-35	703798	VALVE, Jib up	1	SV14	704949	VALVE, Brake shuttle	1
3H-36	703189	VALVE, Platform rotation left	1	V1	703192	VALVE, Brake release override	1
3H-37	703189	VALVE, Platform rotation right	1			\$ - Consult Factory	

FIGURE 3-9. HYDRAULIC SCHEMATIC (Serial Number 93267 and Above.)



[illegible]

FIGURE 3-11. MAIN MANIFOLD COMPONENT AND PORT IDENTIFICATION



VALVE	FACTORY PRESSURE
RV5	2500 PSI
RV6	225 PSI
PR2	2100 PSI
PR3	2100 PSI

FIGURE 3-12. BRAKE MANIFOLD COMPONENT AND PORT IDENTIFICATION (Serial Number 93267 and Above.)

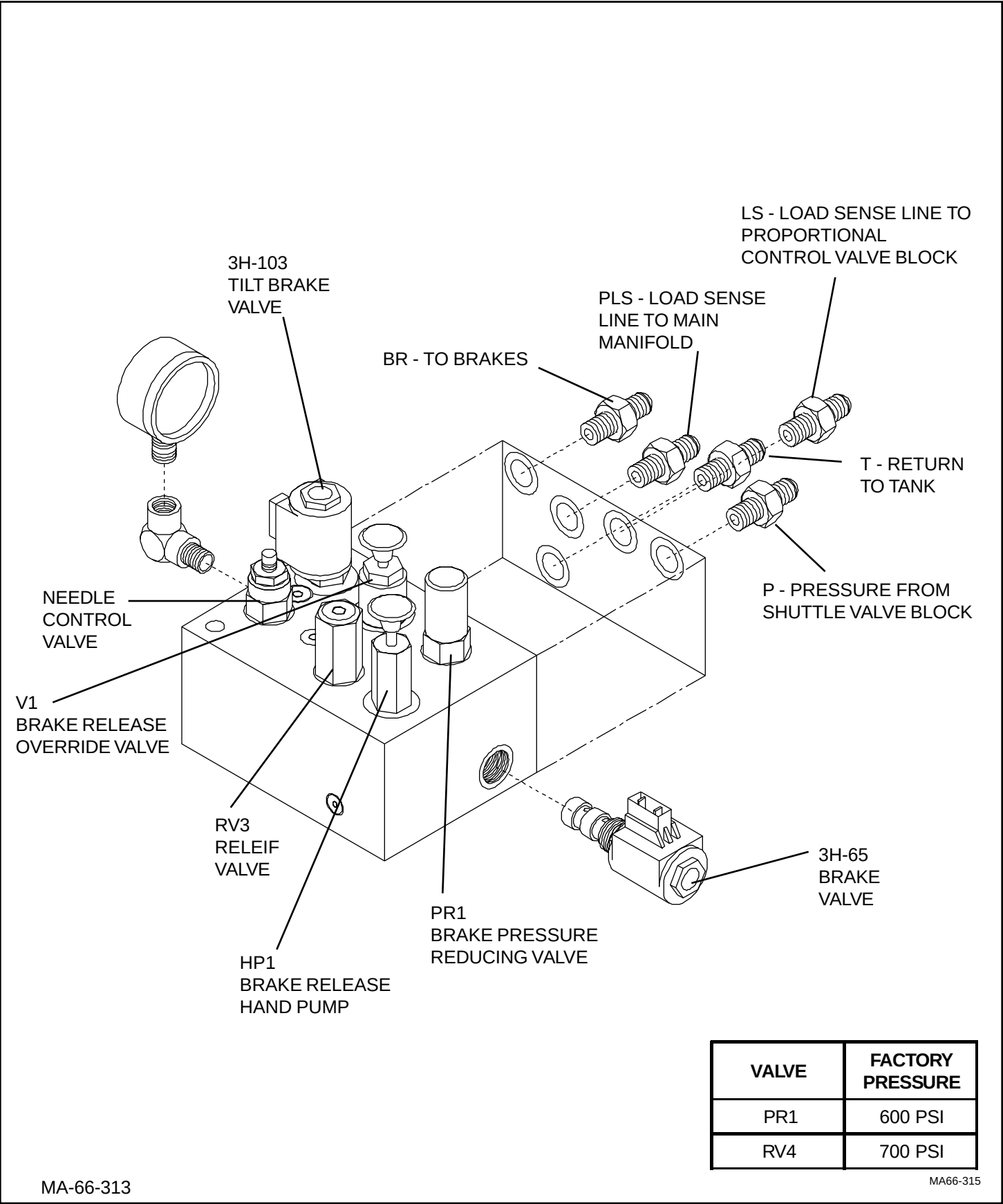


FIGURE 3-13. BRAKE MANIFOLD COMPONENT AND PORT IDENTIFICATION (Serial Number 93266 and Below.)

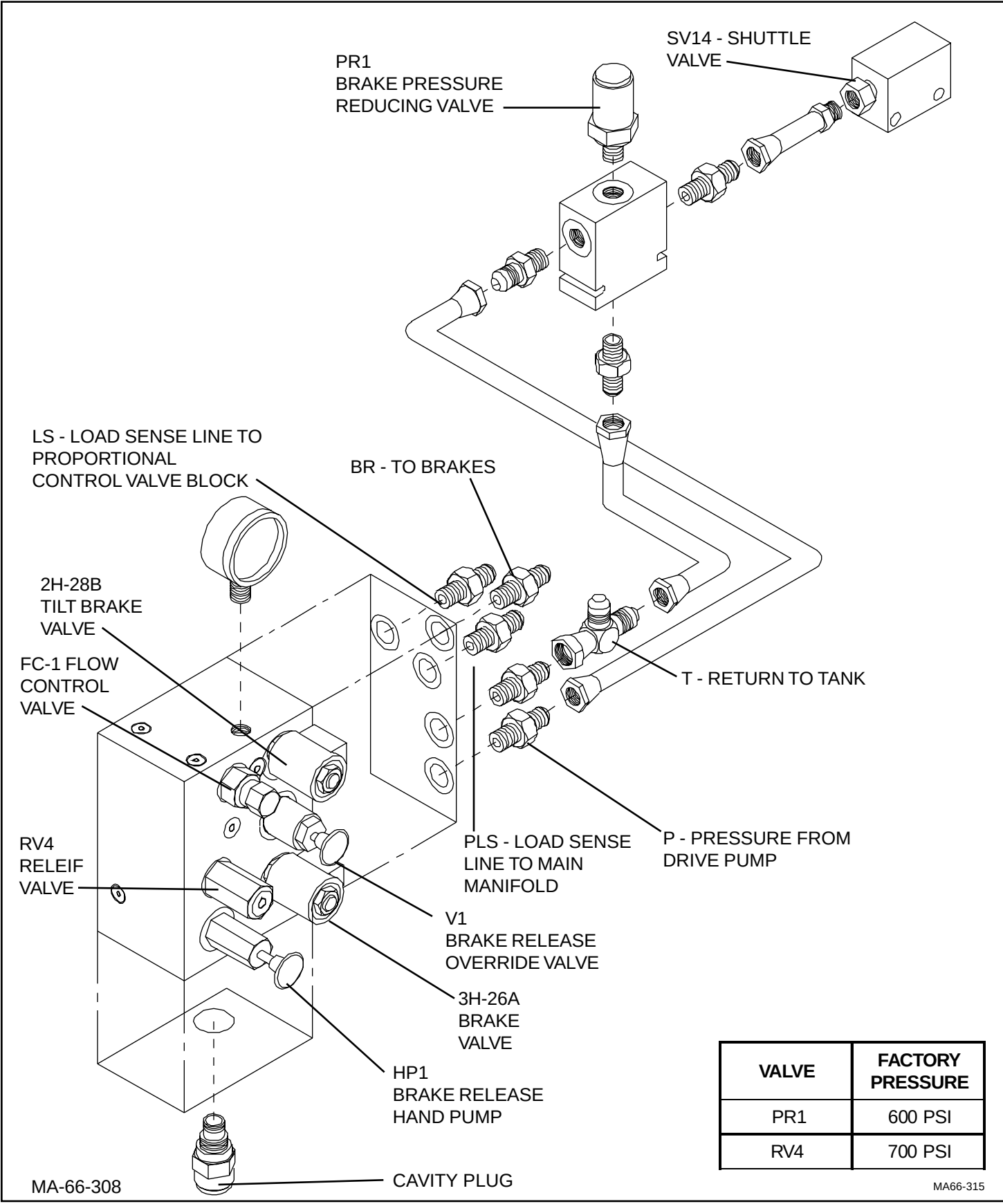
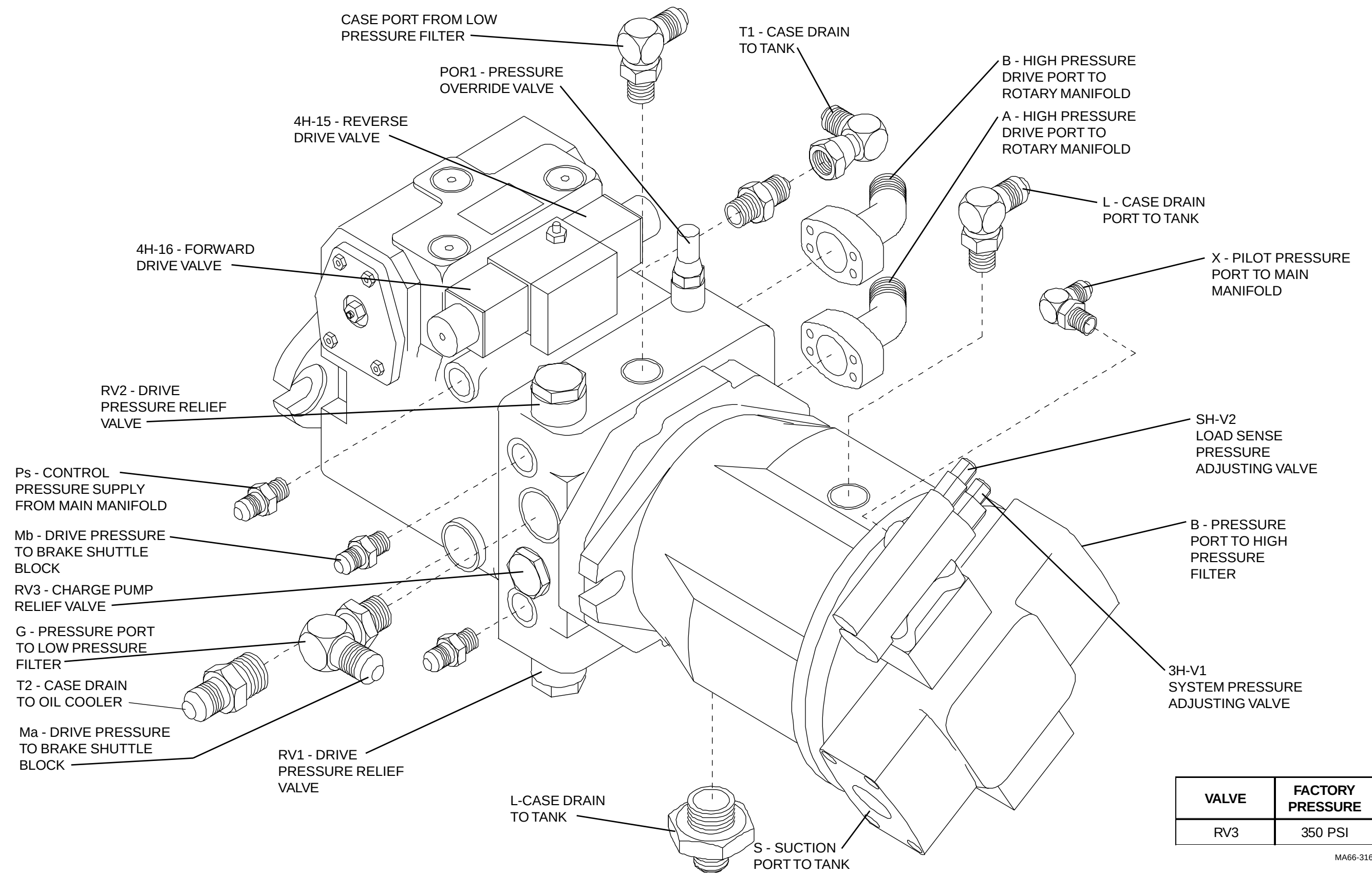


FIGURE 3-14. DRIVE AND SYSTEM PUMP COMPONENT AND PORT IDENTIFICATION



VALVE	FACTORY PRESSURE
RV3	350 PSI

MA-66-309

MA66-316

FIGURE 3-15. PLATFORM LEVELING MANIFOLD COMPONENT AND PORT IDENTIFICATION

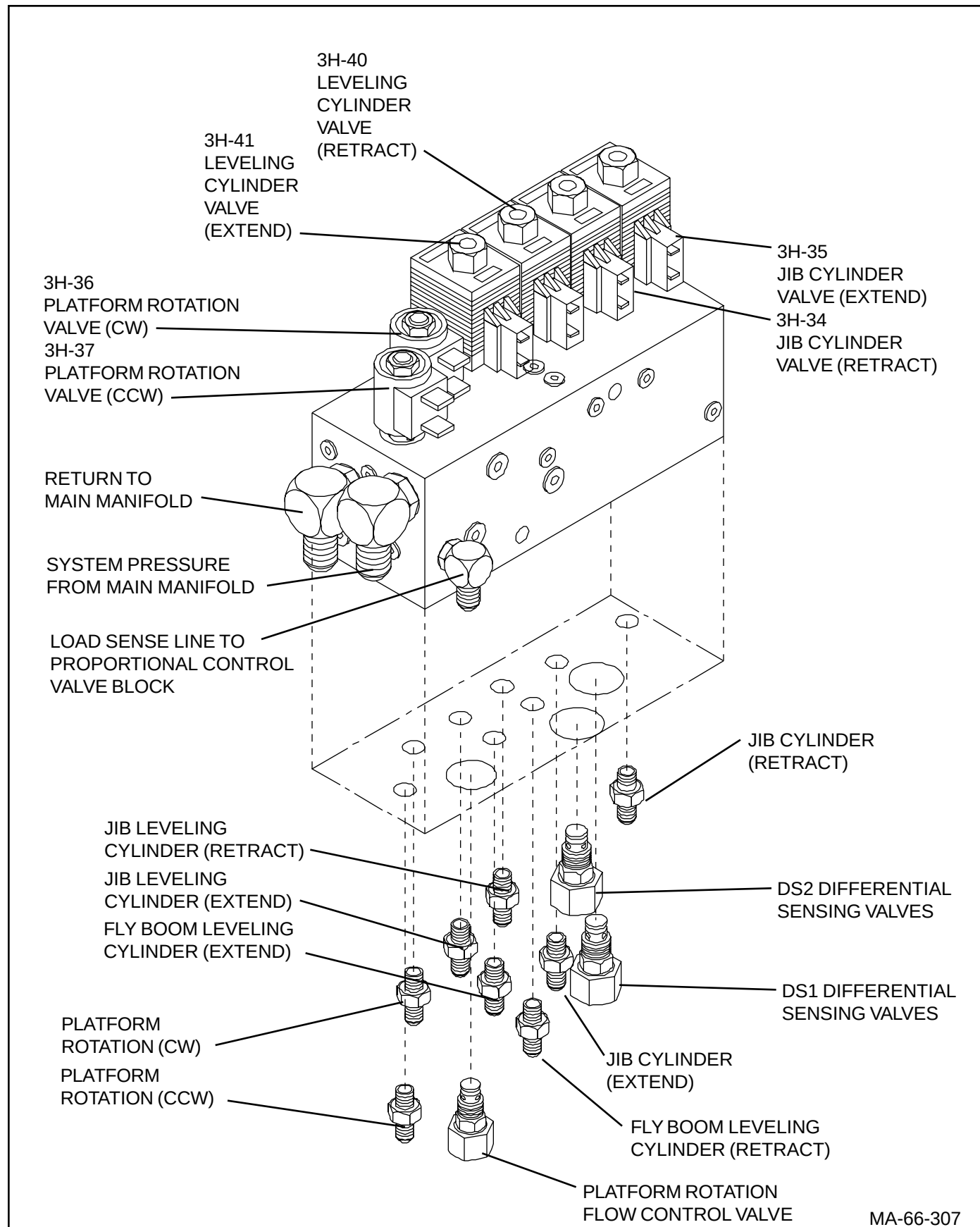
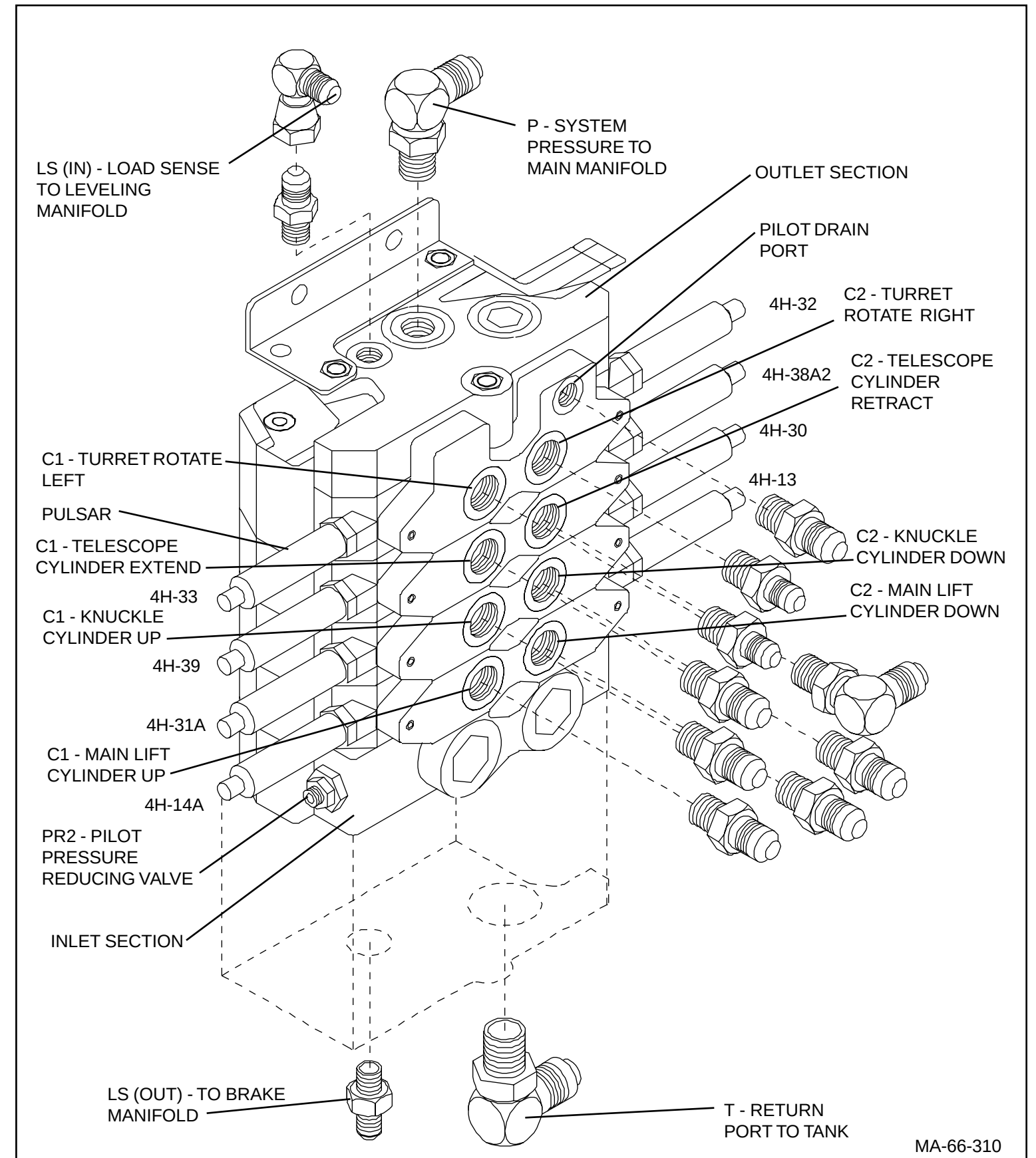


FIGURE 3-16. PROPORTIONAL VALVE ASSEMBLY COMPONENT AND PORT IDENTIFICATION



SECTION 4 TROUBLESHOOTING

The following pages contain a Table of Troubleshooting information for locating and correcting most service trouble which can develop. Careful and accurate analysis of the system listed in the Table of Troubleshooting Information will localize the trouble more quickly than any other method. This manual can not cover all possible troubles and deficiencies that may occur. If a specific trouble is not listed, isolate the major component in which the trouble occurs, and then isolate and correct the specific problem.

TROUBLE	PROBABLE CAUSE	REMEDY
---------	----------------	--------

ELECTRICAL SYSTEM

NOTE: ALL TESTS SHOULD BE PERFORMED WITH BOOM OVER NON-STEERING AXLE

ALL CONTROLS INOPERATIVE	1. A battery disconnected or discharged.	1. Connect battery or recharge.
	2. Loose or broken 6 Ga. wire from Battery to Ammeter AM1.	2. Check Continuity. Replace if defective.
	3. Defective Ammeter AM1.	3. Check Ammeter. Replace if defective.
	4. Loose or broken wire #03 from Ammeter AM1 to Circuit Breaker CB1.	4. Check Continuity. Replace if defective.
	5. Circuit Breaker CB1 tripped or defective.	5. Reset Breaker, check for defective wiring. Replace if Defective
	6. Loose or broken wire #05 from Circuit Breaker CB1 to Base Emergency Stop Switch S4.	6. Check Continuity. Replace if defective.
	7. Open or defective Base Emergency Stop Button S4.	7. Close Switch. Replace if defective.
	8. Loose or broken wire #07 from Base Emergency Stop Switch S4 to Key Select Switch S2.	8. Check Continuity. Replace if defective.
	9. Open or defective Key Select Switch S2-4.	9. Close switch. Replace if defective.
	10. Loose or broken wire #60A from Base Terminal Block TB-1 to Relay 60ACR.	10. Check Continuity. Replace if defective.
	11. Loose or broken wire #07 from Key Select Switch S2-4 to Relay 60ACR.	11. Check Continuity. Replace if defective.
	12. Loose or broken wire #02 from Relay 60ACR to Base Terminal Block TB-1.	12. Check Continuity. Replace if defective.
	13. Defective Relay 60ACR.	13. Check Relay. Replace if defective.
	14. Loose or broken wire #02 from Base Terminal Block TB-1 to Battery B1.	14. Check Continuity. Replace if defective.
ENGINE WILL NOT CRANK FROM PLATFORM	1. Foot on Foot Switch S5.	1. Remove Foot from Foot Switch.
	2. Defective Ignition Switch S19.	2. Check Continuity. Replace if defective.
	3. Loose or broken wire #57 from Ignition Switch S19 to Relay 8CR1.	3. Check Continuity. Replace if defective.
	4. Defective Relay 8CR1.	4. Check Continuity. Replace if defective.
	5. Loose or broken wire #57A from Relay 8CR1 to Base Terminal Block TB-2.	5. Check Continuity. Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
ELECTRICAL SYSTEM (Cont.)		
ENGINE WILL NOT CRANK FROM BASE	- Loose or broken wire #10 from Key Select Switch S2-3 to Base Ignition Switch S25. - Loose or broken wire #57A from Base Ignition Switch S25 to Base Terminal Block TB-2. - Defective Switch S25.	- Check Continuity. Replace if defective. - Check Continuity. Replace if defective. - Check Switch. Replace if defective.
NO POWER TO PLATFORM	- Open or defective Key Select Switch S2-2. - Loose or broken wire #07B from Key Select Switch S2-2 to Platform Stow Switch S26. - Open or defective Platform Stow Switch S26. - Loose or broken wire #07C from Platform Stow Switch S26 to Base Terminal Block TB-2. - Loose or broken wire #07C from Base Terminal Block TB-2 to Platform Terminal Block TB-8. - Loose or broken wire #07C from Platform Terminal Block TB-8 to Platform Emergency Stop Switch S4. - Open or defective Platform Emergency Stop Switch S4.	- Close Switch. Replace if defective - Check Continuity. Replace if defective - Close Switch. Replace if defective - Check Continuity. Replace if defective - Check Continuity. Replace if defective. - Check Continuity. Replace if defective. - Close Switch. Replace if defective.
ENGINE CRANKS BUT WILL NOT START	- Loose or broken wire #60A from Base Terminal Block TB-2 to Ignition Cut Out Relay 01CR. - Defective Ignition Cut Out Relay 01CR. - Loose or broken wire #60B from Ignition Cut Out Relay 01CR to Ignition Relay 60BCR. - Defective Ignition Relay 60BCR. - Loose or broken wire #02 from Ignition Relay 60BCR to Base Terminal Block TB-1. - Loose or broken wire #03 from Ammeter AM1 to Ignition Relay 60BCR. - Loose or broken wire #03A from Ignition Relay 60BCR to Circuit Breaker CB4. - Tripped or defective Circuit Breaker CB4.	- Defective Ign. - Check Relay. Replace if defective. - Check Continuity. Replace if defective. - Check Relay. Replace if defective. - Check Continuity. Replace if defective. - Check Continuity. Replace if defective. - Check Continuity. Replace if defective. - Reset Breaker, check for defective wiring. Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
ENGINE CRANKS BUT WILL NOT START (Continued)	9. Loose or broken wire #54 from Circuit Breaker CB4 to Engine Terminal Block.	9. Check Continuity. Replace if defective.
	10. Loose or broken wire #54 from Engine Terminal Block to Time Delay TD1.	10. Check Continuity. Replace if defective.
	11. Defective Time Delay TD1.	11. Check Time Delay. Replace if defective.
	12. Loose or broken wire #02 from Time Delay TD-1 to Engine Terminal Block.	12. Check Continuity. Replace if defective.
	13. Loose or broken wire #77 from Time Delay TD-1 to Base Terminal Block TB-1.	13. Check Continuity. Replace if defective.
	14. Loose or broken wire #77 from Base Terminal block TB-1 to Fuel relay 77CR.	14. Check Continuity. Replace if defective.
	15. Defective Fuel relay 77CR.	15. Check Relay. Replace if defective.
	16. Loose or broken wire #02 from Fuel relay 77CR to Base Terminal Block TB-1.	16. Check Continuity. Replace if defective.
	17. Loose or broken wire #09 from Base Terminal Block TB-1 to Fuel Relay 77CR.	17. Check Continuity. Replace if defective.
	18. Loose or broken wire #77A from Fuel Relay 77CR to Fuel Select Relay 11CR.	18. Check Continuity. Replace if defective.
	19. Defective Fuel Select Relay 11CR.	19. Check Relay. Replace if defective.
	20. Loose or broken wires #50(L.P.) or #56(Gasoline) from Fuel Select Relay to Fuel Valves 2P-50(L.P.) or 2G-56(Gasoline).	20. Check Continuity. Replace if defective.
	21. Defective Fuel valves 2P-50(L.P.) or 2G-56(Gasoline).	21. Check Fuel Valves. Replace if defective.
	22. Loose or broken wire #56 from Fuel select Relay 11CR to Fuel Pump FP1(Gasoline mode only).	22. Check Continuity. Replace if defective.
	23. Defective Fuel Pump FP1.	23. Check Pump. Replace if defective.
	24. No spark.	24. Refer to Ford Engine Service Manual.
ENGINE CRANKS BUT WILL NOT START FROM PLATFORM	1. Loose or broken wire #60 from Platform Ignition Switch to Platform Terminal Block TB-7.	1. Check Continuity. Replace if defective.
	2. Open Diode D-60 at Platform Ignition Switch S19.	2. Check Diode. Replace if defective.
	3. Loose or broken wire #60A from Platform Terminal Block TB-7 to Base Terminal Block TB-2.	3. Check Continuity. Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
ELECTRICAL SYSTEM (Cont.)		
ENGINE STARTS BUT WILL NOT KEEP RUNNING	1. Engine oil level low. 2. Loose or broken wire #54 from Engine Terminal Block to Oil Pressure Switch OPS1. 3. Defective Oil Pressure Switch OPS1 4. Loose or broken wire #54 from Oil Pressure Switch OPS1 to Engine Terminal Block TB5.	1. Check oil Level. Refill to proper level. 2. Check Continuity. Replace if defective. 3. Check Switch. Replace if defective. 4. Check Continuity. Replace if defective.
CONTROLS INOPERATIVE FROM PLATFORM	1. Loose or broken wire #04 from Platform Emergency Stop Switch to Foot Switch S5. 2. Open or defective Foot Switch S5. 3. Loose or broken wire #08 from Foot Switch S5 to Platform Terminal Block TB-8.	1. Check Continuity. Replace if defective. 2. Close Switch. Replace if defective. 3. Check Continuity. Replace if defective.
NO BOOM OR STEER FUNCTIONS FROM PLATFORM OR BASE	1. Loose or broken wire #20 from Base Terminal Block TB-2 to Base Terminal block TB-1. 2. Open Diode D20. 3. Loose or broken wire #21 from Base Terminal Block TB-1 to Load Sense Relay 21CR. 4. Defective Load Sense Relay 21CR. 5. Loose or broken wire #02 from load Sense Relay 21CR to Base Terminal Strip TB-1. 6. Loose or broken wire #09 from Base Terminal Block TB-1 to Load Sense Relay 21CR. 7. Loose or broken wire #21A from Load Sense Relay 21CR to Load Sense Dump Valve Coil 2H-21A. 8. Defective Load Sense Dump Valve Coil 2H-21A. 9. Loose or broken wire #02 from Load Sense Dump Valve 2H-21A to Base Terminal Block TB-2.	1. Check Continuity. Replace if defective. 2. Check Diode. Replace if defective. 3. Check Continuity. Replace if defective. 4. Check Relay. Replace if defective. 5. Check Continuity. Replace if defective. 6. Check Continuity. Replace if defective. 7. Check Continuity. Replace if defective. 8. Check Continuity through Coil. Replace if defective. 9. Check Continuity. Replace if defective.
NO MAIN BOOM DOWN FROM PLATFORM OR BASE	1. Stuck or misadjusted Main Boom Down End of Stroke Limit Switch LS3. 2. Loose or broken wire #09 from Base Terminal Block TB-1, to Main Boom Down End of Stroke Limit Switch LS3.	1. Adjust Switch. Replace if defective. 2. Check Continuity. Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
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ELECTRICAL SYSTEM (Cont.)

NO MAIN BOOM DOWN FROM PLATFORM OR BASE (Continued)	3.	Loose or broken wire #18 from Main Boom Down End of Stroke Limit Switch LS3 to Base Terminal Block TB-2.	3.	Check Continuity. Replace if defective.
	4.	Loose or broken wire #18 from Base Terminal Block TB-2 to Relay 18CR.	4.	Check Continuity. Replace if defective.
	5.	Defective Relay 18CR.	5.	Check Relay. Replace if defective.
	6.	Loose or broken wire #02 from Relay 18CR to Base Terminal Block TB-1.	6.	Check Continuity. Replace if defective.
	7.	Loose or broken wire #13 from Base Terminal Block TB-2 to Relay 18CR.	7.	Check Continuity. Replace if defective.
	8.	Loose or broken wire 13A from Relay 18CR to Main Boom Down Valve 4H-13A.	8.	Check Continuity. Replace if defective.
	9.	Defective Main Boom Down Valve Coil 4H-13A.	9.	Check Continuity through Coil, reading should be 28 OHMS. Replace if defective.
	10.	Loose or broken wire #02 from Main Boom Down Valve Coil 4H-13A to Base Terminal Block TB-1.	10.	Check Continuity. Replace if defective.
NO MAIN BOOM UP FROM PLATFORM OR BASE CONTROLS	1.	Stuck or misadjusted Main Boom Up End of Stroke Limit Switch LS4.	1.	Adjust Switch. Replace if defective.
	2.	Loose or broken wire #09 from Base Terminal Block TB-1, to Main Boom Up End of Stroke Limit Switch LS4.	2.	Check Continuity. Replace if defective.
	3.	Loose or broken wire #19 from Main Boom Up End of Stroke Limit Switch to Base Terminal Block TB-2.	3.	Check Continuity. Replace if defective.
	4.	Loose or broken wire #19 from Base Terminal Block TB-2 to Relay 19CR.	4.	Check Continuity. Replace if defective.
	5.	Defective Relay 19CR.	5.	Check Relay. Replace if defective.
	6.	Loose or broken wire #02 from Relay 19CR to Base Terminal Block TB-1.	6.	Check Continuity. Replace if defective.
	7.	Loose or broken wire #14 from Base Terminal Block TB-2 to Relay 19CR.	7.	Check Continuity. Replace if defective.
	8.	Loose or broken wire 14A from Relay 19CR to Main Boom Up Valve 4H-14A.	8.	Check Continuity. Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
ELECTRICAL SYSTEM (Cont.)		
NO MAIN BOOM UP FROM PLATFORM OR BASE CONTROLS (Continued)	9. Defective Main Boom Up Valve Coil 4H-14A. 10. Loose or broken wire #02 from Main Boom Up Valve Coil 4H-13A to Base Terminal Block TB-1.	9. Check Continuity through Coil, reading should be 28 OHMS. Replace if defective. 10. Check Continuity. Replace if defective.
NO BOOM FUNCTIONS FROM PLATFORM	1. Loose or broken wire #20 from Platform Terminal Block TB-7 to Base Terminal Block TB-2.	1. Check Continuity. Replace if defective.
NO MAIN BOOM UP OR DOWN FROM PLATFORM	1. Defective Switch S71 on Main Boom Joystick S7. 2. Defective Circuit Board S7-1 on Main Boom Joystick S7. 3. Loose or broken wire #20 #107 from Circuit Board S7-1 to Platform Terminal Block TB-7.	1. Check switch. Replace if defective. 2. Refer to Section 5, Page 4 for OEM Controller Diagnostics. 3. Check Continuity. Replace if defective.
NO MAIN BOOM UP FROM PLATFORM	1. Defective Switch S-72 on Circuit Board S7. 2. Loose or Broken wire #14 from Circuit Board S7 to Platform Terminal block TB-7. 3. Loose or broken wire #14 from Platform Terminal Block TB-7 to Base Terminal block TB-2.	1. Check Switch. Replace if defective. 2. Check Continuity. Replace if defective. 3. Check Continuity. Replace if defective.
NO MAIN BOOM DOWN FROM PLATFORM CONTROLS	1. Defective Switch S-72 on Circuit Board S7. 2. Loose or broken wire #13 from Circuit Board S7 to Platform Terminal Block TB-7. 3. Loose or broken wire #13 from Platform Terminal Block TB-7 to Base Terminal Block TB2.	1. Check Switch. Replace if defective. 2. Check Continuity. Replace if defective. 3. Check Continuity. Replace if defective.
NO TURRET ROTATE LEFT FROM PLATFORM OR BASE CONTROLS	1. Loose or broken wire #32 from Base Terminal Block TB-2 to Turret Rotate Left Valve 4H-32. 2. Defective Turret Rotate Left Valve Coil 4H-32. 3. Loose or broken wire #02 from Turret Rotate Left Valve 4H-32 to Base Terminal Block TB-3.	1. Check Continuity. Replace if defective. 2. Check Continuity through Coil. Reading should be 28 OHMS. Replace if defective. 3. Check Continuity. Replace if defective.
NO TURRET ROTATE RIGHT FROM PLATFORM OR BASE CONTROLS	1. Loose or broken wire #33 from Base Terminal Block TB-2 to Turret Rotate Right Valve 4H-33. 2. Defective Turret Rotate Right Valve Coil 4H-33. 3. Loose or broken wire #02 from Turret Rotate Right Valve 4H-33 to Base Terminal Block TB-3.	1. Check Continuity. Replace if defective. 2. Check Continuity through Coil. Reading should be 28 OHMS. Replace if defective. 3. Check Continuity. Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
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ELECTRICAL SYSTEM (Cont.)

NO TURRET ROTATE RIGHT OR LEFT FROM PLATFORM	1. Defective Switch S73 on Turret Rotate Circuit Board S7-2. 2. Defective Turret Rotate Circuit Board S7-2. 3. Loose or broken wire #20 from Circuit Board S7-2 to Platform Terminal Block TB-7.	1. Check Switch. Replace if defective. 2. Refer to Section 5, Page 4 for OEM Controller Diagnostics. 3. Check continuity. Replace if defective.
NO TURRET ROTATE LEFT FROM PLATFORM	1. Defective Switch S-74 on Circuit Board S7-2. 2. Loose or broken wire #32 from Circuit Board S7-2 to Platform Terminal Block TB6. 3. Loose or broken wire #32 from Platform Terminal Block TB-7 to Base Terminal Block TB-1.	1. Check Switch. Replace if defective. 2. Check Continuity. Replace if defective. 3. Check Continuity. Replace if defective.
NO TURRET ROTATE RIGHT FROM PLATFORM	1. Defective Switch S-74 on Circuit Board S7-2. 2. Loose or broken wire #33 from Circuit Board S7-2 to Platform Terminal Block TB-7. 3. Loose or broken wire #33 from Platform Terminal Block TB-7 to Base Terminal Block TB-1.	1. Check Switch. Replace if defective. 2. Check Continuity. Replace if defective. 3. Check Continuity. Replace if defective.
NO TELESCOPE IN FROM PLATFORM OR BASE CONTROLS	1. Loose or broken wire #38 from Base Terminal Block TB-2 to Telescope In Valve 4H-38. 2. Defective Telescope In Valve Coil 4H-38. 3. Loose or broken wire #02 from Telescope In Valve 4H-38 to Base Terminal Block TB-3.	1. Check Continuity. Replace if Defective. 2. Check Continuity through Coil. Reading should be 28 OHMS. Replace if defective. 3. Check Continuity. Replace if defective.
NO TELESCOPE OUT FROM PLATFORM OR BASE CONTROLS	1. Loose or broken wire #39 from Base Terminal Block TB-2 to Telescope In Valve 4H-39. 2. Defective Telescope In Valve Coil 4H-39. 3. Loose or broken wire #02 from Telescope In Valve 4H-39 to Base Terminal Block TB-3.	1. Check Continuity. Replace if Defective. 2. Check Continuity through Coil. Reading should be 28 OHMS. Replace if defective. 3. Check Continuity. Replace if defective.
NO TELESCOPE IN OR OUT FROM PLATFORM	1. Defective Switch S91 on Telescope Joystick S9. 2. Defective Circuit Board S9-1 on Telescope Joystick S9. 3. Loose or broken wire #20 from Telescope Joystick S9 to Platform Terminal Block TB-7.	1. Check Switch. Replace if defective. 2. Refer to Section 5, Page 4 for OEM Controller Diagnostics. 3. Check Continuity. Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
ELECTRICAL SYSTEM (Cont.)		
NO TELESCOPE IN FROM PLATFORM	1. Defective Switch S92 on Circuit Board S9-1. 2. Loose or broken wire #38 from Circuit Board S9-1 to Platform Terminal Block TB-7. 3. Loose or broken wire #38 from Platform Terminal Block to Base Terminal Block TB-2.	1. Check Switch. Replace if defective. 2. Check Continuity. Replace if defective. 3. Check Continuity. Replace if defective.
NO TELESCOPE OUT FROM PLATFORM	1. Defective Switch S92 on Circuit Board S9-1. 2. Loose or broken wire #39 from Circuit Board S9-1 to Platform Terminal Block TB-7. 3. Loose or broken wire #39 from Platform Terminal Block TB-7 to Base Terminal Block TB-2.	1. Check Switch. Replace if defective. 2. Check Continuity. Replace if defective. 3. Check Continuity. Replace if defective.
FLY BOOM WILL NOT EXTEND AFTER MID BOOM HAS EXTENDED	1. Loose or broken wire #09 from Terminal Block TB-1 to Mid Boom out Proximity Switch PS1. 2. Defective Mid Boom Out Proximity Switch PS1. 3. Loose or broken wire #02 from Mid Boom Out Proximity Switch PS1. 4. Mid Boom Out Proximity PS1 Switch out of adjustment. 5. Loose or broken wire #25 from Mid Boom out Proximity Switch PS1 to Relay 25CR. 6. Defective Relay 25CR. 7. Loose or broken wire #02 from Relay 25CR to Terminal Block TB-1. 8. Loose or broken wire #09 from Relay 25CR to Terminal Block TB-1. 9. Loose or broken wire #25A from Relay 25CR to Time Delay TD2. 10. Defective Time Delay TD2. 11. Loose or broken wire #02 from Time Delay TD2 to Base Terminal block TB1. 12. Loose or broken wire #75 from Time Delay TD2 to Relay 75CR2. 13. Defective Relay 75CR2.	1. Check Continuity. Replace if defective. 2. Check Switch. Replace if defective 3. Check Continuity. Replace if defective. 4. Check for excessive clearance between Mid Boom and Knuckle. Shim as needed. Readjust Proximity Switch. 5. Check Continuity. Replace if defective. 6. Check Relay. Replace if defective. 7. Check Continuity. Replace if defective. 8. Check Continuity. Replace if defective. 9. Check Continuity. Replace if defective. 10. Check Time delay. Replace if defective. 11. Check Continuity. Replace if defective. 12. Check Continuity. Replace if defective. 13. Check Relay. Replace if Defective

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
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ELECTRICAL SYSTEM (Cont.)

FLY BOOM WILL NOT EXTEND AFTER MID BOOM HAS EXTENDED (Continued)	14.	Loose or broken wire #02 from Relay 75CR2 to Terminal Block TB-1.	14.	Check Continuity. Replace if defective.
	15.	Loose or broken wire #09 from Relay 75CR2 to Terminal Block TB-1.	15.	Check Continuity. Replace if defective.
	16.	Loose or broken wire #75B from Relay 75CR2 to Sequence Valve 3H-75B.	16.	Check Continuity. Replace if defective.
	17.	Defective Coil on Sequence Valve 3H-75B.	17.	Check Continuity through Coil. Replace if defective.
	18.	Loose or broken wire #02 from Sequence Valve 3H-75B to Terminal Block TB-1.	18.	Check Continuity. Replace if defective.
MID BOOM WILL NOT RETRACT AFTER FLY BOOM HAS RETRACTED	1.	Loose or broken wire #09 from Terminal Block TB-1 to Fly in Limit Switch LS8.	1.	Check Continuity. Replace if defective.
	2.	Defective Fly in Limit Switch LS8.	2.	Check Switch. Replace if Defective.
	3.	Loose or broken wire #29 from Fly in Limit Switch LS8 to Relay 22CR.	3.	Check Continuity. Replace if defective.
	4.	Defective Relay 22CR.	4.	Check Relay. Replace if defective.
	5.	Loose or broken wire #02 from Relay 22CR to Base Terminal Block TB1.	5.	Check Continuity. Replace if defective.
	6.	Loose or broken wire #09 from Terminal Block TB-1 to Knuckle Up End of Stroke Limit Switch LS6.	6.	Check Continuity. Replace if defective.
	7.	Defective Knuckle Up End of Stroke Limit Switch LS6.	7.	Check Switch. Replace if defective.
	8.	Loose or broken wire #22 from Knuckle Up End of Stroke Limit Switch LS6 to Relay 22CR.	8.	Check Continuity. Replace if defective.
	9.	Loose or broken wire #69 from 22CR to Relay 69CR.	9.	Check Continuity. Replace if defective.
	10.	Defective Relay 69CR.	10.	Check Relay. Replace if defective.
	11.	Loose or broken wire 02 from 69CR to Base Terminal Block TB-1.	11.	Check Continuity. Replace if defective.
	12.	Loose or broken wire #09 from 69CR to Base Terminal Block TB-1.	12.	Check Continuity. Replace if defective.
	13.	Loose or broken wire #69A from Relay 69CR to Sequence Valve 3H-69A.	13.	Check Continuity. Replace if defective.
	14.	Defective Sequence Valve Coil 3H-69A.	14.	Check Continuity through Coil. Replace if defective.
	15.	Loose or broken wire #02 from Sequence Valve Coil 3H-69A to Base Terminal Block TB-1.	15.	Check Continuity. Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
ELECTRICAL SYSTEM (Cont.)		
NO JIB UP OR DOWN FROM PLATFORM	1. Defective Switch S-111 on CB S11-1. 2. Defective Circuit Board S11-1 3. Loose or broken wire #20 from Circuit Board S11-1 to Terminal Block TB-7 in Platform Control Box.	1. Check Switch. Replace if defective. 2. Refer to Page 5-4, Figure 5-1 OEM Troubleshooting. 3. Check Continuity. Replace if defective.
NO JIB DOWN FROM PLATFORM OR BASE CONTROLS	1. Loose or broken wire #34 from Platform Terminal Block TB-7 to Jib Down Valve 3H-34. 2. Defective Jib Down Valve 3H-34. 3. Loose or broken wire #02 from Jib Down Valve 3H-34 to Platform Terminal Block TB-7.	1. Check Continuity. Replace if defective. 2. Check Continuity through Coil. Replace if defective. 3. Check Continuity. Replace if defective.
NO JIB UP FROM PLATFORM OR BASE CONTROLS	1. Loose or broken wire #35 from Platform Terminal Block TB-7 to Jib Up Valve 3H-35. 2. Defective JIB Up Valve Coil 3H-35. 3. Loose or broken wire #02 from Jib Up Valve 3H-35 to Platform Terminal Block TB-7.	1. Check Continuity. Replace if defective. 2. Check Continuity through Coil. Replace if defective. 3. Check Continuity. Replace if defective.
NO JIB DOWN FROM PLATFORM	1. Defective Switch S-112 on Circuit Board S11-1. 2. Loose or broken wire #34 from Circuit Board S11-1 to Platform Terminal Block TB-7.	1. Check Switch. Replace if defective. 2. Check Continuity. Replace if defective.
NO JIB UP FROM PLATFORM	1. Defective Switch S-112 on Circuit Board S11-1. 2. Loose or broken wire #35 from Circuit Board S11-1 to Platform Terminal Block TB-7.	1. Check Switch. Replace if defective. 2. Check Continuity. Replace if defective.
NO PLATFORM ROTATE LEFT FROM PLATFORM OR BASE CONTROLS	1. Loose or broken wire #36 from Platform Terminal block TB-7 to Platform Rotate Left Valve 3H-36. 2. Defective Platform Rotate Left Valve Coil 3H-36. 3. Loose or broken wire #02 from Platform Rotate Left Valve 3H-36 to Platform Terminal Block TB-6. 4. Open Diode D36.	1. Check Continuity. Replace if defective. 2. Check Continuity through Coil. Replace if defective. 3. Check Continuity. Replace if defective. 4. Check Continuity. Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
ELECTRICAL SYSTEM (Cont.)		
NO PLATFORM ROTATE RIGHT FROM PLATFORM OR BASE CONTROLS	1. Loose or broken wire #37 from Platform Terminal block TB-7 to Platform Rotate Left Valve 3H-37. 2. Defective Platform Rotate Left Valve Coil 3H-37. 3. Loose or broken wire #02 from Platform Rotate Left Valve 3H-37 to Platform Terminal Block TB-7. 4. Open Diode D37.	1. Check Continuity. Replace if defective. 2. Check Continuity through Coil. Replace if defective. 3. Check Continuity. Replace if defective. 4. Check Continuity. Replace if defective.
NO PLATFORM ROTATE LEFT FROM PLATFORM	1. Defective Switch S113 on Joystick S11. 2. Loose or broken wire #36 from Joystick S11 to Platform Terminal Block TB-7.	1. Check Switch. Replace if defective. 2. Check Continuity. Replace if defective.
NO PLATFORM ROTATE RIGHT FROM PLATFORM	1. Defective Switch S114 on Joystick S11. 2. Loose or broken wire #37 from Joystick S11 to Platform Terminal Block TB-7.	1. Check Switch. Replace if defective. 2. Check Continuity. Replace if defective.
NO KNUCKLE UP OR DOWN FROM PLATFORM OR BASE CONTROLS	1. Loose or broken wire #75 from Time Delay TD2 to Base Terminal Block TB-2.	1. Check Continuity. Replace if defective.
NO KNUCKLE DOWN FROM PLATFORM OR BASE CONTROLS	1. Loose or broken wire #30 from Base Terminal Block TB-2 to Knuckle Down Valve Coil 4H-30. 2. Defective Knuckle Down Valve Coil 4H-30. 3. Loose or broken wire #02 from Knuckle Down Valve Coil 4H-30.	1. Check Continuity. Replace if defective. 2. Check Continuity through Coil. Reading should be 28 OHMS. Replace if defective. 3. Check Continuity. Replace if defective.
NO KNUCKLE UP FROM PLATFORM OR BASE CONTROLS	1. Open Diode D31-2. 2. Loose or broken wire #31A from Base Terminal Block TB-1 to Knuckle Up Valve Coil 4H-31A. 3. Defective Knuckle Up Valve Coil 4H-31A. 4. Loose or broken wire #02 from Knuckle Up Valve Coil 4H-31A to Base Terminal Block TB-3.	1. Check Diode. Replace if defective. 2. Check Continuity. Replace if defective. 3. Check Continuity through Coil. Reading should be 28 OHMS. Replace if defective. 4. Check Continuity. Replace if defective.
NO KNUCKLE UP OR DOWN FROM PLATFORM	1. Loose or broken wire #75 from Base Terminal Block TB-2 to Platform Terminal Block TB-7. 2. Loose or broken wire #75 from Platform Terminal Block TB-7 to Relay 75CR.	1. Check Continuity. Replace if defective. 2. Check Continuity. Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
ELECTRICAL SYSTEM (Cont.)		
NO KNUCKLE UP OR DOWN FROM PLATFORM (Continued)	3. Defective Relay 75CR. 4. Loose or broken wire #02 from Relay 75CR to Platform Terminal block TB-8. 5. Loose or broken wire #08 from Platform Terminal block TB-7 to Relay 75CR. 6. Loose or broken wire #75A from Relay 75CR to Joystick S8. 7. Defective Switch S81 on Circuit Board S8-1. 8. Defective Circuit Board S8-1. 9. Loose or broken wire #107 from Circuit Board S8-2 to Platform Terminal Block TB-8.	3. Check Relay. Replace if defective. 4. Check Continuity. Replace if defective. 5. Check Continuity. Replace if defective. 6. Check Continuity. Replace if defective. 7. Check Switch. Replace if defective. 8. Refer to Section 5, Page 4 for Controller Diagnostics. 9. Check Continuity. Replace if defective.
NO KNUCKLE DOWN FROM PLATFORM	1. Defective Switch S82 on Circuit Board S8-1. 2. Loose or broken wire #30 from Circuit Board S8-1 to Platform Terminal Block TB-7. 3. Loose or broken wire #30 from TB-7 to TB-2.	1. Check Continuity. Replace if defective. 2. Check Continuity. Replace if defective. 3. Check Continuity. Replace if defective.
NO KNUCKLE UP FROM PLATFORM	1. Defective Switch S82 on Circuit Board S8-1. 2. Loose or broken wire #31 from Circuit Board S8-1 to Platform Terminal Block TB-7. 3. Loose or broken wire #31 from TB-7 to TB-2.	1. Check Continuity. Replace if defective. 2. Check Continuity. Replace if defective. 3. Check Continuity. Replace if defective.
PLATFORM WILL NOT LEVEL UP OR DOWN FROM PLATFORM	1. Loose or broken wire #09 to Platform Stow Switch S26. 2. Defective Platform Stow Switch S26. 3. Loose or broken wire #90 from Platform Stow Switch S26 to Base Terminal Block TB-2. 4. Loose or broken wire #90 from Base Terminal Block TB-2 to Platform Terminal Block TB-7. 5. Loose or broken wire #90 from Platform Terminal Block TB-7 to Relay 107CR. 6. Defective Relay 107CR. 7. Loose or broken Wire #107 from Platform Terminal Block TB-7 to Relay 107CR. 8. Loose or broken wire #02 from Relay 107CR to Platform Terminal Block TB-7. 9. Loose or broken wire #90A from Relay 107CR to Leveling Circuit Board PLCB1 10. Defective Leveling Circuit Board PLCB1.	1. Check Continuity. Replace if defective. 2. Check Switch. Replace if defective. 3. Check Continuity. Replace if defective. 4. Check Continuity. Replace if defective. 5. Check Continuity. Replace if defective. 6. Check Relay. Replace if defective. 7. Check Continuity. Replace if defective. 8. Check Continuity. Replace if defective. 9. Check Continuity. Replace if defective. 10. Refer to Page 5-11, Figure 5-6. Platform Leveling Diagnostics.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
ELECTRICAL SYSTEM (Cont.)		
PLATFORM WILL NOT LEVEL UP OR DOWN FROM PLATFORM (Continued)	11. Loose or broken wire #91 from Leveling Circuit Board PLCB1 to Level Sensor TS2. 12. Loose or broken wire #92 from Leveling Board PLCB1 to Level Sensor TS2. 13. Loose or broken wire #93 from Leveling Board PLCB1 to Level Sensor TS2. 14. Loose or broken wire #02 from Leveling Board PLCB1 to Platform Terminal Block TB-7.	11. Check Continuity. Replace if defective. 12. Check Continuity. Replace if defective. 13. Check Continuity. Replace if defective. 14. Check Continuity. Replace if defective.
PLATFORM WILL NOT LEVEL UP FROM PLATFORM	1. Loose or broken wire #41 from Leveling Board BLCB1 to Level Up Valve 3H-41 2. Defective Level Up Valve Coil 3H-41. 3. Loose or broken wire #02 from Level Up Valve Coil 3H-41 to Platform Terminal Block TB-8.	1. Check Continuity. Replace if defective. 2. Check Continuity. Replace if defective. 3. Check Continuity. Replace if defective.
PLATFORM WILL NOT LEVEL DOWN FROM PLATFORM	1. Loose or broken wire #40 from Leveling Board PLCB1 to Level Down Valve 3H-40 2. Defective Level Down Valve Coil 3H-40. 3. Loose or broken wire #02 from Level Down Valve Coil 3H-40 to Platform Terminal Block TB-8.	1. Check Continuity. Replace if defective. 2. Check Continuity. Replace if defective. 3. Check Continuity. Replace if defective.
UNIT WILL NOT DRIVE NOTE: Platform Must Be Over Non Steering Axle For These Procedures	1. Loose or broken wire #08 from Base Terminal Block TB-2 to Relay 08CR3. 2. Defective Relay 08CR3. 3. Loose or broken wire #02 from Relay 08CR3 to Base Terminal Block TB-1. 4. S/N 93267 & above. Loose or broken wire #09 from TB1 to Relay 03CR3. 4a. S/N 93266 & below. Loose or broken wire #61 from Drive Joystick S21 to Relay 08CR3. 5. S/N 93267 & above. Loose or broken wire #09A from Relay 08CR3 to terminal 1 of EDA & MDSD boards. 5a. S/N 93266 & below. Loose or broken wire #61A from Relay 08CR3 to Relay 51CR1. 6. Defective Relay 51CR1. 7. Loose or broken wire #51 from Relay 51CR1 to Base Terminal Block TB-1. 8. Loose or broken wire #61B from Relay 51CR1 to Relay 17CR3.	1. Check Continuity. Replace if defective. 2. Check Relay. Replace if defective. 3. Check Continuity. Replace if defective. 4. Check Continuity. Replace if defective. 4a. Check Continuity. Replace if defective. 5. Check Continuity. Replace if defective. 5a. Check Continuity. Replace if defective. 6. Check Relay. Replace if defective. 7. Check Continuity. Replace if defective. 8. Check Continuity. Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
ELECTRICAL SYSTEM (Cont.)		
UNIT WILL NOT DRIVE (Continued)	9. Defective Relay 17CR3.	9. Check Continuity. Replace if defective.
	10. Loose or broken wire #02 from Relay 17CR3 to Base Terminal Block TB-1.	10. Check Relay. Replace if defective.
	11. Loose or broken wire #64 from Drive Joystick S21 to Terminal 10 on MDSD Board.	11. Check Continuity. Replace if defective.
	12. Loose or broken wire #62 from Drive Joystick S21 to Relay 17CR4.	12. Check Continuity. Replace if defective.
	13. Defective Relay 17CR4.	13. Check Continuity. Replace if defective.
	14. Loose or broken wire #61C from Relay 17CR4 to Terminal "L" on EDA Board.	14. Check Relay. Replace if defective.
	15. Loose or broken wire #63 from Drive Joystick S21 to Terminal 11 on MDSD Board.	15. Check Continuity. Replace if defective.
	16. Defective Potentiometer S21-4 on Drive Joystick S21.	16. Check Potentiometer. Replace if defective.
	17. Broke or loose wire #09 to Terminal 1 on EDA Board.	17. Check Continuity. Replace if defective.
	18. Loose or broken wire #02 to Terminal 2 on EDA Board.	18. Check Continuity. Replace if defective.
	19. Loose or broken wire #98 from Terminal 10 on EDA Board to Magnetic Pickup TP1.	19. Check Continuity. Replace if defective.
	20. Loose or broken wire #98A from Terminal 9 on EDA Board to Magnetic Pickup TP1.	20. Check Continuity. Replace if defective.
	21. Magnetic Pickup TP1 out of adjustment.	21. Refer to Page 5-5, Figure 5-2 EDA Board Diagnostics.
	22. Defective Magnetic Pickup TP1.	22. Refer to Page 5-5, Figure 5-2 EDA Board Diagnostics.
	23. Loose or broken wire #09 from Terminal 1 on EDA Board to Terminal 1 on MDSD Board.	23. Check Continuity. Replace if defective.
	24. Loose or broken wire #02 from Terminal 2 on EDA Board to Terminal 2 on MDSD Board.	24. Check Continuity. Replace if defective.
	25. Blown Fuse FU2 on EDA Board.	25. Replace Fuse.
	26. Defective EDA Board.	26. Refer to Page 5-5, Figure 5-2 EDA Board Diagnostics.
	27. Blown Fuse FU3 on MDSD Board.	27. Replace Fuse.
	28. Defective MDSD Board.	28. Refer to Page 5-7, Figure 5-3 MDSD Board Diagnostics.
NO DRIVE FORWARD	1. Loose or broken wire #16 from Terminal 3 on MDSD Board to Forward Drive Valve Coil 4H-16.	1. Check Continuity. Replace if defective.
	2. Defective Forward Drive Valve Coil 4H-16.	2. Check Continuity through Coil. Replace if defective.
	3. Loose or broken wire #02 from Forward Drive Valve 4H-16 to pump housing.	3. Check Continuity. Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
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ELECTRICAL SYSTEM (Cont.)

NO DRIVE FORWARD (Continued)	4. Defective MDSD Board.	4. Refer to Page 5-6, Figure 5-3 MDSD Diagnostics.
NO DRIVE REVERSE	1. Loose or broken wire #15 from Terminal 5 on MDSD Board to Reverse Drive Valve Coil 4H-15. 2. Defective Reverse Drive Valve Coil 4H-15. 3. Loose or broken wire #02 from Reverse Drive Coil 4H-15 to pump housing. 4. Defective MDSD Board.	1. Check Continuity. Replace if defective. 2. Check Continuity through Coil. Replace if defective. 3. Check Continuity. Replace if defective. 4. Refer to Page 5-6, Figure 5-3 MDSD Diagnostics.
NO HIGH DRIVE	1. Loose or broken wire #09 from Base Terminal Block TB-1 to MID Boom in Limit Switch LS1. 2. Defective Mid Boom in Limit Switch LS1. 3. Loose or broken wire #06 from Mid Boom in Limit Switch LS1 to High Drive/Tilt Over-ride Limit Switch LS2. 4. Defective High Drive/Tilt Over-ride Limit Switch LS2. 5. Loose or defective wire #59 from Tilt Over-ride/High Drive Limit Switch LS2 to Base Terminal Block TB-1. 6. Loose or broken wire #59 from Base Terminal Block TB-1 to Terminal 5 on EDA Board. 7. Loose or broken wire #59 from Base Terminal Block TB-1 to Relay 59CR. 8. Defective Relay 59CR. 9. Loose or defective wire #02 from Relay 59CR to Terminal Block TB-1. 10. Loose or broken wire #09 from Terminal Block TB-1 to Relay 59CR. 11. Loose or broken wire #59A from High Drive Relay 59CR to High Drive Valve Coil 2H-59A. 12. Defective High Drive Valve Coil 2H-59A. 13. Loose or broken wire #02 from High Drive Relay 59CR to Terminal Block TB-1.	1. Check Continuity. Replace if defective. 2. Check Switch. Replace if defective. 3. Check Continuity. Replace if defective. 4. Check Switch. Replace if defective. 5. Check Continuity. Replace if defective. 6. Check Continuity. Replace if defective. 7. Check Continuity. Replace if defective. 8. Check Relay. Replace if defective. 9. Check Continuity. Replace if defective. 10. Check Continuity. Replace if defective. 11. Check Continuity. Replace if defective. 12. Check Continuity through coil. Replace if defective. 13. Check Continuity. Replace if defective.
NO DRIVE ELEVATED OR TELESOPED OUT	1. Machine out of level.	1. Move machine to firm level ground.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
ELECTRICAL SYSTEM (Cont.)		
NO DRIVE ELEVATED OR TELESKOPED OUT (Continued)	2. Loose or broken wire #09 from Base Terminal Block to Tilt Switch Fuse FU1. 3. Blown Tilt Switch Fuse FU1. 4. Defective Tilt Switch TS1. 5. Loose or broken wire #28 from Tilt Switch TS1 to Base Terminal Block TB-1. 6. Open Diode D28.	2. Check Continuity. Replace if defective. 3. Check Continuity. Replace if defective. 4. Check Switch. Replace if defective. 5. Check Continuity. Replace if defective. 6. Check Diode. Replace if defective.
NO STEER LEFT OR RIGHT	1. Open Diode D114. 2. Loose or broken wire #114 from Terminal Block to Steer Dump Valve Coil 2H-114. 3. Defective Steer Dump Valve Coil 2H-114. 4. Loose or broken wire #02 from Steer Dump Valve Coil 2H-114 to Terminal Block.	1. Check Diode. Replace if defective. 2. Check Continuity. Replace if defective. 3. Check Continuity through Coil. Replace if defective. 4. Check Continuity. Replace if defective.
NO STEER LEFT NOTE: Platform Must Be Over Non Steer Axle For These Checks	1. Defective Steer Left Switch S21-1. 2. Loose or broken wire #24 from Steer Left Switch S21-1 to Relay 17CR2. 3. Defective Relay 17CR2. 4. Loose or broken wire #24A from Relay 17CR2 to Steer Left Relay 24ACR. 5. Defective Steer Left Relay 24ACR. 6. Loose or broken wire #02 from Steer Left Relay 24ACR to Base Terminal Block TB-1. 7. Loose or broken wire #09 from Steer Left Relay 24ACR to Base Terminal Block TB-1. 8. Loose or broken wire #24B from Steer Left Relay 24ACR to Steer Left Valve 4H-24B. 9. Defective Steer Left Valve Coil 4H-24B. 10. Loose or broken wire #02 from Steer Left Valve 4H-24B to Base Terminal Block TB-1. 11. Open Diode D24B.	1. Check Switch. Replace if defective. 2. Check Continuity. Replace if defective. 3. Check Relay. Replace if defective. 4. Check Continuity. Replace if defective. 5. Check Relay. Replace if defective. 6. Check Continuity. Replace if defective. 7. Check Continuity. Replace if defective. 8. Check Continuity. Replace if defective. 9. Check Continuity through Coil. Replace if defective. 10. Check Continuity. Replace if defective. 11. Check Diode. Replace if defective.
NO STEER RIGHT NOTE: Platform Must Be Over Non Steer Axle For These Checks	1. Defective Steer Right Switch S21-2. 2. Loose or broken wire #23 from Steer Right Switch S21-2 to Relay 17CR1.	1. Check Switch. Replace if defective. 2. Check Continuity. Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
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ELECTRICAL SYSTEM (Cont.)

NO STEER RIGHT (Continued)	3.	Defective Relay 17CR1.	3.	Check Relay. Replace if defective.
	4.	Loose or broken wire #23A from Relay 17CR1 to Steer Right Relay 23ACR.	4.	Check Continuity. Replace if defective
	5.	Defective Steer Right Relay 23ACR.	5.	Check Relay. Replace if defective.
	6.	Loose or broken wire #02 from Steer Right Relay 23ACR to Terminal Block TB-1.	6.	Check Continuity. Replace if defective.
	7.	Loose or broken wire #09 from Steer Right Relay 23ACR to Terminal Block TB-1.	7.	Check Continuity. Replace if defective.
	8.	Loose or broken wire #23B from Steer Right Relay 23ACR to Steer Right Valve 4H-23B.	8.	Check Continuity. Replace if defective.
	9.	Defective Steer Right Valve Coil 4H-23B.	9.	Check continuity through Coil. Replace if defective.
	10.	Loose or broken wire #02 from Steer Right Valve 4H-23B to Terminal Block TB-1.	10.	Check Continuity. Replace if defective.
	11.	Open Diode D23B on Terminal Block TB-1.	11.	Check Diode. Replace if defective.
DRIVE AND STEER WILL NOT CHANGE DIRECTIONS	1.	Loose or broken wire #09 from Terminal Strip to Direction Sensing Switch S22.	1.	Check Continuity. Replace if defective.
	2.	Defective Direction Sensing Switch S22.	2.	Check Switch. Replace if Defective.
	3.	Loose or broken wire #17 from Direction Sensing Switch S22 to Terminal Block TB-2.	3.	Check Continuity. Replace if defective.
	4.	Loose or broken Wire #17 from Terminal Block TB-2 to Relays 17CR1,17CR2,17CR3 and 17CR4.	4.	Check Continuity. Replace if defective.
BRAKES WILL NOT RELEASE	1.	Defective Switch S21-3 in Drive Joystick.	1.	Check Switch. Replace if defective.
	2.	Loose or broken wire #26 from Switch S21-3 in Drive Joystick to Terminal Block TB-2.	2.	Check Continuity. Replace if Defective.
	3.	Loose or broken wire from Base Terminal Block TB-2 to Base Terminal block TB-1.	3.	Check Continuity. Replace if Defective.
	4.	Open Diode D26.	4.	Check Diode. Replace if Defective.
	5.	Loose or broken wire #26 from Terminal Block TB-1 to Brake Relay 26CR.	5.	Check Continuity. Replace if Defective.
	6.	Defective Brake Relay 26CR.	6.	Check Relay. Replace if defective.
	7.	Loose or broken Wire #02 from Brake Relay 26CR to Terminal Block TB-1.	7.	Check Continuity. Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
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ELECTRICAL SYSTEM (Cont.)

BRAKES WILL NOT RELEASE (Continued)	8. Loose or broken Wire #09 from Brake Relay 26CR to Terminal Block TB-1.	8. Check Continuity. Replace if Defective.
	9. Loose or broken wire #26A from Brake Relay 26CR to Brake Valve 3H-26A.	9. Check Continuity. Replace if defective.
	10. Defective Brake Valve Coil 3H-26A.	10. Check Continuity through coil. Replace if defective.
	11. Loose or broken wire #02 from Brake Valve Coil 3H-26A to Terminal Block TB-1.	11. Check Continuity. Replace if defective.
BASE CONTROLS INOPERATIVE	1. Defective Contact Block S2-3 on Key Switch S2.	1. Check Contact Block. Replace if defective.
	2. Loose or broken wire #10 from Contact Block S2-3 to Base Ignition Switch S25.	2. Check Continuity. Replace if Defective.
	3. Loose or broken wire #10 from Contact Block S2-3 to Terminal Block TB-1.	3. Check Continuity. Replace if defective.
	4. Loose or broken Wire #10 from Base Ignition Switch to Base Control Switches.	4. Check Continuity. Replace if defective.
NO START FROM BASE	1. Defective Base Ignition Switch S25.	1. Check Switch. Replace if defective.
	2. Loose or broken Wire #68 from Base Ignition Switch S25 to Diode D68 on Terminal Block TB-1.	2. Check Continuity. Replace if defective.
	3. Open Diode D68 on Terminal Block TB-1.	3. Check Diode. Replace if defective.
NO TELESCOPE FROM BASE	1. Defective Telescope Extend/Retract Switch S16.	1. Check Switch. Replace if defective.
	2. Loose or broken wire #38 (retract) or wire #39 (extend) from Telescope Extend/Retract Switch S16 to Terminal Block TB-2.	2. Check Continuity. Replace if defective.
	3. Open Diodes D38-1 (retract) or D39-1 (extend) on Terminal Block TB-2.	3. Check Diode. Replace if defective.
NO MAIN BOOM FROM BASE	1. Defective Main Boom Up/Down Switch S15.	1. Check Switch. Replace if defective.
	2. Loose or broken wire #14 (up) or #13 (down) from Main Boom Up/Down Switch S15 to Terminal Block TB-2.	2. Check Continuity. Replace if defective.
	3. Open Diode D13 (down) or D14 (up) on Terminal Block TB-2.	3. Check Diode. Replace if defective.
NO TURRET ROTATE FROM BASE	1. Defective Turret Rotate Switch S20.	1. Check Switch. Replace if defective.
	2. Loose or broken wire #33 (right) or #32 (left) from Turret Rotate Switch S20 to Terminal Block TB-2.	2. Check Continuity. Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
ELECTRICAL SYSTEM (Cont.)		
NO TURRET ROTATE FROM BASE (Continued)	3. Open Diode D32 (left) or D33 (right) on Terminal Block TB-2.	3. Check Diode. Replace if defective.
NO JIB UP OR DOWN FROM BASE	1. Defective Jib Up/Down Switch S17. 2. Loose or broken wire #35 (up) or #34 (down) from Jib up/down Switch S17 to Terminal Block TB-2. 3. Loose or broken wire #34 (down) or #35 (up) from Base Terminal Block TB-2 to Platform Terminal Block TB-7. 4. Open Diode D34 (down) or D35 (up) on Terminal Block TB-2.	1. Check Switch. Replace if defective. 2. Check Continuity. Replace if defective. 3. Check Continuity. Replace if defective. 4. Check Diode. Replace if defective.
NO PLATFORM ROTATE FROM BASE	1. Defective Platform Rotate Switch S18. 2. Loose or broken wire #37 (right) or #36 (left) from Platform Rotate Switch S18 to Terminal Block TB-2. 3. Loose or broken wire #36 left or #37 right from Base Terminal Block to Platform Terminal Block TB-7. 4. Open Diode D36 (left) or D37 (right) on Terminal Block TB-2.	1. Check Switch. Replace if defective. 2. Check Continuity. Replace if defective. 3. Check Continuity. Replace if defective. 4. Check Diode. Replace if defective.
NO KNUCKLE UP OR DOWN FROM BASE	1. Defective Knuckle Up/Down Switch S10. 2. Loose or broken wire #31 (up) or #30 (down) from Knuckle Up/Down Switch S10 to Terminal Block TB-2. 3. Open Diode D30 (down) or D31-1 (up) on Terminal Block TB-2.	1. Check Switch. Replace if defective. 2. Check Continuity. Replace if defective. 3. Check Diode. Replace if defective.
NO PLATFORM LEVEL UP/DOWN FROM BASE	1. Loose or broken wire #109 from Platform Stow Switch S26 to Platform Level Switch S34. 2. Defective Platform Level Switch S34. 3. Loose or broken wire #41 (up) or #40 (down) from Platform Level Switch S34 to Base Terminal Block TB-2. 4. Loose or broken wire #41 (up) or #40 (down) from Platform Level Switch S34 to Platform Terminal Block TB-7. 5. Open Diode D40 (down) or D41 (up) on Terminal Block TB-2.	1. Check Continuity. Replace if defective. 2. Check Switch. Replace if defective. 3. Check Continuity. Replace if defective. 4. Check Continuity. Replace if defective. 5. Check Diode. Replace if defective.
BRAKES APPLY TOO QUICK ON LEVEL SURFACE	1. Loose or broken wire #28 from Tilt Switch TS1 to Relay 08CR2. 2. Defective Relay 08CR2. 3. Loose or broken wire #2 from Relay 08CR2 to Terminal Block TB-1.	1. Check Continuity. Replace if defective. 2. Check Relay. Replace if defective. 3. Check Continuity. Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
ELECTRICAL SYSTEM (Cont.)		
BRAKES APPLY TOO QUICK ON LEVEL SURFACE (Continued)	4. Loose or broken wire #08 from Platform Terminal Block TB-8 to Relay 08CR2. 5. Loose or broken wire #28A from Relay 08CR2 to Relay 28ACR. 6. Defective Relay 28ACR. 7. Loose or broken wire #02 from Relay 28ACR to Terminal Block TB-1. 8. Loose or broken wire #09 from Terminal Block TB-1 to Relay 28ACR. 9. Loose or broken wire #28B from Relay 28ACR to 5 Degree Brake Valve 2H-28B. 10. Defective 5 Degree Brake Valve Coil 2H-28B. 11. Loose or broken wire #02 from 5 Degree Brake Valve 2H-28B to Terminal Block TB-1.	4. Check Continuity. Replace if defective. 5. Check Continuity. Replace if defective. 6. Check Relay. Replace if defective. 7. Check Continuity. Replace if defective. 8. Check Continuity. Replace if defective. 9. Check Continuity. Replace if defective. 10. Check Continuity through Coil. Replace if defective. 11. Check Continuity. Replace if defective.
NO THROTTLE CONTROL FROM PLATFORM (STAYS AT IDLE 900 RPM)	1. Loose or broken wire #08 from Platform Terminal Block TB-8 to Throttle Switch S14. 2. Defective Throttle Switch S14.	1. Check Continuity. Replace if Defective. 2. Check Switch. Replace if Defective.
NO LOW ENGINE RPM (1600 RPM'S)	1. Loose or broken wire #88 from Throttle Switch S14 to Platform Terminal Block TB-7. 2. Open Diode D88 from Throttle Switch S14 to wire #79A. 3. Loose or broken wire #79A from Platform Terminal Block TB-7 to Throttle Control BCB-1 Position "B". 4. Loose or broken wire #88 from Throttle Switch S14 to Relay 88CR. 5. Defective Relay 88CR. 6. Loose or broken wire #02 from Relay 88CR to Platform Terminal Block TB-8. 7. Throttle Control BCB1 out of adjustment or defective.	1. Check Continuity. Replace if Defective. 2. Check Diode. Replace if Defective. 3. Check Continuity. Replace if defective. 4. Check Continuity. Replace if defective. 5. Check Relay. Replace if defective. 6. Check Continuity. Replace if defective. 7. Refer to Page 5-14, Figure 5-8 Barber/Colman Diagnostics.
NO MID ENGINE RPM (2100 RPM'S)	1. Defective Throttle Switch S14. 2. Defective Relay 88CR. 3. Loose or broken wire #08 from Platform Terminal Block TB-8 to Relay 88CR. 4. Loose or broken wire #78 from Relay 88CR to Base Terminal Block TB-1. 5. Open Diode D78 on Base Terminal Block TB-1.	1. Check Switch. Replace if Defective. 2. Check Relay. Replace if Defective. 3. Check Continuity. Replace if defective. 4. Check Continuity. Replace if defective. 5. Check Diode. Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
ELECTRICAL SYSTEM (Cont.)		
NO MID ENGINE RPM (2100 RPM'S) (Continued)	6. Loose or broken wire #78A from Diode D78 to Throttle Control BCB1 position "A". 7. Throttle Control BCB1 out of adjustment or defective.	6. Check Continuity. Replace if defective. 7. Refer to Page 5-14, Figure 5-8 Barber/Colman Diagnostics.
NO HIGH ENGINE RPM (2600 RPM'S)	1. Loose or broken wire #79 from Throttle Switch S14 to Platform Terminal Block TB-7. 2. Open Diode D79 on Platform Terminal TB-7. 3. Throttle Control BCB1 out of adjustment or defective.	1. Check Continuity. Replace if defective. 2. Check Diode. Replace if defective. 3. Refer to Page 5-14, Figure 5-8 Barber/Colman Diagnostics.
L. P. OR GASOLINE VALVES INOPERATIVE	1. Loose or broken wire #09 from Base Terminal Block TB-1 to Relay 77CR. 2. Defective Relay 77CR. 3. Loose or broken wire #02 from Relay 77CR to Base Terminal Block TB-1. 4. Loose or broken wire #77A from Relay 77CR to Relay 11CR. 5. Loose or broken wire #77 from TB1 to 77CR.	1. Check Continuity. Replace if defective. 2. Check Relay. Replace if defective. 3. Check Continuity. Replace if defective. 4. Check Continuity. Replace if defective. 5. Check Continuity. Replace if defective.
L. P. VALVE INOPERATIVE	1. Defective Relay 11CR. 2. Loose or broken wire #50 from Relay 11CR to Engine Terminal Block. 3. Loose or broken wire #50 from Engine Terminal Block to L.P. Valve 2P-50. 4. Defective L.P. Valve 2P-50.	1. Check Relay. Replace if defective. 2. Check Continuity. Replace if defective. 3. Check Continuity. Replace if defective. 4. Check Valve. Replace if defective.
GASOLINE VALVE AND FUEL PUMP INOPERATIVE	1. Defective Relay 11CR. 2. Loose or broken wire #56 from Relay 11CR to Engine Terminal Block. 3. Loose or broken wire #56 from Engine Terminal Block to Fuel Pump FP1 or Gasoline Valve 2G-56. 4. Loose or broken wire 11 from Fuel Select Switch S33 to 11CR. 5. Loose or broken wire #02 on 11CR. 6. Defective S33 Switch. 7. Loose or broken wire #60A on S33.	1. Check Relay. Replace if defective. 2. Check Continuity. Replace if defective. 3. Check Continuity. Replace if defective. 4. Check Continuity. Replace if defective. 5. Check Continuity. Replace if defective. 6. Check Switch. Replace if defective. 7. Check Continuity. Replace if defective.

TROUBLESHOOTING

TROUBLE	PROBABLE CAUSE	REMEDY
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HYDRAULIC SYSTEM

NOTE: ALL TESTS SHOULD BE PERFORMED WITH BOOM OVER NON-STEERING AXLE

ALL FUNCTIONS INOPERATIVE	1. Broken or defective Pump Coupling.	1. Check Coupling. Replace if defective.
ALL BOOM FUNCTIONS INOPERATIVE	1. Defective Shuttle Valve SV-3. 2. Defective Shuttle Valve SV-4. 3. Defective Shuttle Valve SV-5. 4. Defective Shuttle Valve SV-6. 5. Defective Load Sense Dump Valve 2H-21A. 6. Defective Load Sense Adjusting Valve 3H-V2. 7. Defective System Pressure Adjusting Valve 3H-V1. 8. Defective System Pump P2.	1. Check Shuttle Valve. Replace if defective. 2. Check Shuttle Valve. Replace if defective. 3. Check Shuttle Valve. Replace if defective. 4. Check Shuttle Valve. Replace if defective. 5. Check Valve. Replace if defective. 6. Check Valve. Replace if defective. 7. Check Valve. Replace if defective. 8. Refer to page 24 for trouble shooting procedure.
NO MAIN BOOM, KNUCKLE, TELESCOPE OR TURRET ROTATE. ALL OTHER FUNCTIONS OPERATE	1. Blocked Pilot Pressure Filter F3 in Apitech Manifold Inlet. 2. Defective Pilot Pressure Reducing Valve PR4. 3. Blown O-ring on any of the Pulsars. 4. Check Valve CV-1 stuck shut.	1. Check Filter, clean or replace if blocked. 2. Check Valve. Replace if defective. 3. Check all Pulsars. Repair as needed. 4. Check CV-1. Replace if defective.
NO MAIN BOOM UP OR DOWN	1. Defective Compensator Valve in Main Boom Section of Apitech Valve. 2. Stuck Spool Valve 4H-13A or 4H-14A in Main Boom Section of Apitech Valve.	1. Check Valve. Replace Main Boom Valve section if defective. 2. Check Valve. Replace Main Boom Valve section if defective.
NO MAIN BOOM UP	1. Defective Pulsar on Main Boom Up Valve 4H-14A. 2. Stuck or Defective Counter Balance Valves CB5 or CB7.	1. Check Pulsar. Replace if defective. 2. Check Valves. Replace if defective.
NO MAIN BOOM DOWN	1. Defective Pulsar on 4H-13A Valve. 2. Stuck or Defective Counter Balance Valves CB6 or CB8.	1. Check Pulsar. Replace if defective. 2. Check Valves. Replace if defective.
NO TURRET ROTATE LEFT OR RIGHT	1. Defective Compensator Valve in Turret Rotate section of Apitech Valve. 2. Relief Valve RV-7 out of adjustment. 3. Stuck Spool Valve 4H-32 or 4H-33 in Turret Swing section of Apitech Valve. 4. Stuck or Defective Shuttle Valve SV13 in Turret Rotation Manifold MB6. 5. Defective Turret Rotate Motor M2.	1. Check Valve. Replace Turret Rotate section if defective. 2. Check Adjustment. Adjust to 2000 PSI. 3. Check Valve. Replace Turret Rotate section if defective. 4. Check Valve. Replace if defective. 5. Check Motor. Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
HYDRAULIC SYSTEM (Cont.)		
NO TURRET ROTATE LEFT	1. Defective Pulsar on Turret Rotate Left Valve 4H-32. 2. Stuck or defective Counter Balance Valve CB22.	1. Check Pulsar. Replace if defective. 2. Check Valve. Replace if defective.
NO TURRET ROTATE RIGHT	1. Defective Pulsar on Turret Rotate Right Valve 4H-33. 2. Stuck or defective Counter Balance Valve CB21.	1. Check Pulsar. Replace if defective. 2. Check Valve. Replace if defective.
TURRET ROTATE BRAKE INOPERATIVE	1. Defective Shuttle Valve SV-13. 2. Defective Turret Rotate Brake BP1.	1. Check Valve. Replace if defective. 2. Check Brake. Replace if defective.
NO MID OR FLY TELESCOPE IN OR OUT	1. Defective Compensator Valve in Telescope Section of Apitech Valve. 2. Stuck Spool Valve 4H-38A or 4H-39 in Telescope section of Apitech Valve. 3. Stuck or Defective Telescope Sequence Valve 3H-69A.	1. Check Valve. Replace Telescope Valve Section if defective. 2. Check Valve. Replace Telescope Valve section if defective. 3. Check Valve. Replace if defective.
NO MID BOOM TELESCOPE OUT	1. Defective or Misadjusted Mid Boom Telescope Pressure Reducing Valve PR2. 2. Stuck or Defective Counter Balance Valve CB2. 3. Defective C-3 or C-4 Telescopic Cylinder.	1. Check Valve. Replace if defective. Readjust to 2100 PSI. 2. Check Valve. Replace if defective. 3. Check Cylinder. Replace or repack if defective.
NO MID BOOM TELESCOPE IN	1. Stuck or defective Telescope Sequence Valve 3H-69A. 2. Stuck or Defective Counter Balance Valve CB1. 3. Defective C-3 or C-4 Telescope Cylinder. 4. Defective Mid Boom Lock Cylinder C9.	1. Check Valve. Replace if defective. 2. Check Valve. Replace if defective. 3. Check Cylinder. Replace or Repack if defective. 4. Inspect Cylinder. Rebuild or Replace as necessary.
NO FLY BOOM OUT	1. Stuck or defective Telescope Sequence Valve 3H-75B. 2. Defective or misadjusted Fly Boom Telescope Pressure Reducing Valve PR3. 3. Stuck or defective Counter Balance Valve CB4. 4. Defective C-5 Fly Boom Telescope Cylinder	1. Check Valve. Replace if defective. 2. Check Valve. Replace if defective. Readjust to 2100 PSI. 3. Check Valve. Replace if defective. 4. Check Cylinder. Replace or repack if defective.
NO FLY BOOM IN	1. Stuck or defective Counter Balance Valve CB3. 2. Defective C-5 Fly Boom Telescope Cylinder.	1. Check Valve. Replace if defective. 2. Check Cylinder. Replace or repack if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
NO JIB UP OR DOWN	1. Defective DS1 Differential Sensing Valve. 2. Stuck or defective 3H-34 or 3H-35. 3. Defective Load Sense Shuttle Valve SV12.	1. Check Valve. Replace if defective. 2. Check Valve. Replace if defective. 3. Check Valve. Replace if defective.
NO JIB UP	1. Stuck or defective JIB Up Valve 3H-35. 2. Stuck or Defective Counter Balance Valve CB19. 3. Defective C7 Jib Cylinder.	1. Check Valve. Replace if defective. 2. Check Valve. Replace if defective. 3. Check cylinder. Replace or repack if defective.
NO JIB DOWN	1. Stuck or defective JIB Down Valve 3H-34. 2. Stuck or Defective Counter Balance Valve CB20. 3. Defective C7 Jib Cylinder.	1. Check Valve. Replace if defective. 2. Check Valve. Replace if defective. 3. Check cylinder. Replace or repack if defective.
NO PLATFORM ROTATE LEFT OR RIGHT	1. Plugged or defective Flow Control FC3. 2. Defective Load Sense Shuttle Valve SV8. 3. Defective rotary Actuator RA1 4. Stuck or defective 3H-36 or 3H-37.	1. Check Flow Control. Clean if plugged. Replace if defective. 2. Check Valve. Replace if defective. 3. Check Rotary Actuator. Replace if defective. 4. Check Valve. Replace if defective.
NO PLATFORM ROTATE LEFT	1. Stuck or defective Platform Rotate Left Valve 3H-36. 2. Stuck or defective Counter Balance Valve CB13.	1. Check Valve. Replace if defective. 2. Check Valve. Replace if defective.
NO PLATFORM ROTATE RIGHT	1. Stuck or defective Platform Rotate Right Valve 3H-37. 2. Stuck or defective Counter Balance Valve CB14.	1. Check Valve. Replace if defective. 2. Check Valve. Replace if defective.
NO KNUCKLE UP OR DOWN	1. Defective Compensator Valve in Knuckle Section of Apitech Valve. 2. Stuck Spool Valve 4H-30 or 4H-31A in Knuckle Section of Apitech Valve.	1. Check Valve. Replace Knuckle Valve section if Defective. 2. Check Valve. Replace Knuckle Valve section if defective.
NO KNUCKLE DOWN	1. Defective Pulsar on Knuckle Down Valve 4H-30. 2. Stuck or defective Counter Balance Valve CB10 or CB12.	1. Check Valve. Replace if Defective. 2. Check Valve. Replace if defective.
NO KNUCKLE UP	1. Defective Pulsar on Knuckle Up Valve 4H-31A. 2. Stuck or defective Counter Balance Valve CB9 or CB11.	1. Check Valve. Replace if defective. 2. Check Valve. Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
HYDRAULIC SYSTEM (Cont.)		
PLATFORM WILL NOT LEVEL UP OR DOWN	1. Defective DS2 Differential Sensing Valve. 2. Defective Load Sense Shuttle Valve SV9.	1. Check Valve. Replace if defective. 2. Check Valve. Replace if defective.
PLATFORM WILL NOT LEVEL DOWN	1. Defective Platform Level Down Valve 3H-40. 2. Stuck or defective Counter Balance Valve CB15 or CB17.	1. Check Valve. Replace if defective. 2. Check Valve. Replace if defective.
PLATFORM DOES NOT LEVEL UP	1. Defective Platform Level UP Valve 3H-41. 2. Stuck or defective Counter Balance Valve CB16 or CB18.	1. Check Valve. Replace if defective. 2. Check Valve. Replace if defective.
BRAKES WILL NOT RELEASE	1. Defective Brake Valve 3H-26A. 2. Defective or misadjusted Pressure Reducing Valve PR1. 3. Defective Relief Valve RV4. 4. Stuck Shuttle Valve SV14.	1. Check Valve. Replace if defective. 2. Check Valve. Replace if defective. 3. Check Valve. Replace if defective. 4. Check Valve. Replace if defective.
BRAKES WILL NOT ENGAGE	1. Stuck or defective Brake Valve 3H-26A. 2. Brakes out of adjustment.	1. Check Valve. Replace if defective. 2. Refer to Page 5-31 Figure 5-27 for Adjustment procedure.
NO DRIVE FORWARD OR REVERSE	1. Brakes will not release. 2. Defective Relief Valve RV3. 3. Defective Pressure Over-ride Valve P.O.R.1 4. Defective or stuck directional Valve 4H-15 or 4H-16. 5. Defective Main Drive Pump P1. 6. Defective Drive Motor M1.	1. Refer to Brake Diagnostics. 2. Refer to Page 5-20 Figure 5-13 for test procedure. Replace if defective. 3. Refer to Page 5-20 Figure 5-13 for test procedure. Replace if defective. 4. Check Valve. Replace if defective. 5. Refer to Drive Pump Diagnostics Page 5-20 Figure 5-14. 6. Refer to Page 5-20 Figure 5-14 Drive Motor Test Procedure. Replace if defective.
NO DRIVE FORWARD	1. Defective Relief Valve RV1.	1. Check Valve. Replace if defective.
NO DRIVE REVERSE	1. Defective Relief Valve RV2.	1. Check Valve. Replace if defective.
NO HIGH DRIVE	1. Stuck or defective High Speed Drive Valve 2H-59A. 2. Relief Valve RV6 set too low.	1. Check Valve. Replace if defective. 2. Refer to Page 5-20 Drive Pump Test procedure. If pressure is lower than 300 PSI replace Relief Valve RV3.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
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HYDRAULIC SYSTEM (Cont.)

NO ELEVATED DRIVE	1. Defective or misadjusted Hi/Low Drive Relief Valve RV6.	1. Check Valve. Replace if defective.
NO STEER LEFT OR RIGHT	1. Stuck or defective Steer Dump Valve 2H-114. 2. Plugged Steer Orifice O1. 3. Stuck or defective Steer Valve 4H-23B or 4H-24B. 4. Steer Cylinder(s) C8 Leaking Internally.	1. Check Valve. Replace if defective. 2. Clean Orifice. 3. Check Valve. Replace if defective. 4. Check Cylinder(s). Replace if defective.

SECTION 5

MAINTENANCE AND SERVICE

GENERAL MAINTENANCE HINTS

- Before attempting any repair work, turn Battery Disconnect Switch to the “OFF” position. Refer to Section 2, Page 4.
- Preventive maintenance is the easiest and least expensive type of maintenance.

REPLACEMENT PARTS

Use only original replacement parts. Parts such as batteries, chargers, wheels, railings, etc. with weight and dimensions different from original parts **will** affect stability of the work platform and **must not** be used without manufacturer's consent.

Use only original filled tires for models which **must** be so equipped. Consult factory.

All replacement tires **must** be of the same size and load rating as original equipment to maintain safety and stability of the work platform. Consult factory.

Any machine that is damaged or not operating properly MUST be immediately tagged and removed from service until proper repairs are completed.

MAINTENANCE AND SERVICE SAFETY TIPS

- Maintenance and repair should only be performed by personnel who are trained and qualified to service this machine.
- All maintenance and service procedures should be performed in a well lighted and well ventilated area.
- Anyone operating or servicing this machine must read and completely understand all operating instructions and safety hazards in this manual.
- All tools, supports and lifting equipment to be used must be of proper rated load and in good working order before any service work begins. Work area should be kept clean and free of debris to avoid contaminating components while servicing.
- All service personnel must be familiar with employer and governmental regulations that apply to servicing this type of equipment.
- Keep sparks and flames away from all flammable or combustible materials.
- Properly dispose of all waste material, i.e. used oil, old parts etc.

HYDRAULIC SYSTEM AND COMPONENT MAINTENANCE AND REPAIR

The following points should be kept in mind when working on the hydraulic system or any component:

1. Any structure has limits of strength and durability. To prevent failure of structural parts of hydraulic components, relief valves which limit pressure to safe operating values are included in the hydraulic circuits.
2. Tolerance of working parts in the hydraulic system is very close. Even small amounts of dirt or foreign materials in the system can cause wear or damage to components, as well as general faulty operation of the hydraulic system. Every precaution must be taken to assure absolute cleanliness of the hydraulic oil.
3. Samples of hydraulic oil should be drawn from the reservoir every six months. These samples should be about two quarts and should be taken while the oil is warmed through normal operation of the system. If possible, the sample should be analyzed by a qualified lubrication specialist to determine whether it is suitable for further use. The intervals between oil changes depend on operating conditions and on the care used in keeping the oil clean.
4. Whenever there is a hydraulic system failure which gives reason to believe that there are metal particles of foreign materials in the system, drain and flush the entire system and replace the filter cartridges. A complete change of oil must be made under these circumstances.
5. Whenever the hydraulic system is drained, check the magnets in the hydraulic reservoir for metal particles. If metal particles are present, flush the entire system and add a new change of oil. The presence of metal particles also may indicate the possibility of imminent component failure. A very small amount of fine particles is normal.
6. DO NOT use synthetic or fire resistant oil in this work platform. Use ATF Dexron III (ESSO) or equivalent hydraulic oil. For conditions causing oil temperatures below -31°F (-35° C) and above 122°F (50° C) consult Skyjack, Inc.
7. All containers and funnels used in handling hydraulic oil must be absolutely clean. Use a funnel when necessary for filling the hydraulic oil reservoir, and fill the reservoir only through the filter opening. The use of cloth to strain the oil should be avoided to prevent lint from getting into the system.
8. When removing any hydraulic component, be sure to cap and tag all hydraulic lines involved. Also, plug the ports of the removed components.
9. All hydraulic components must be disassembled in spotlessly clean surroundings. During disassembly, pay particular attention to the identification of parts to assure proper reassembly. Clean all metal parts in a clean mineral oil solvent. Be sure to thoroughly clean all internal passages. After the parts have been dried thoroughly, lay them on a clean, lint-free surface for inspection.
10. Replace all o-rings and seals when overhauling any component. Lubricate all parts with clean hydraulic oil before reassembly. Use small amounts of petroleum jelly to hold o-rings in place during assembly.
11. Be sure to replace any lost hydraulic oil when completing the installation of the repaired component, and bleed any air from the system when required.
12. All hydraulic connections must be kept tight. A loose connection in a pressure line will permit the oil to leak out or air to be drawn into the system. Air in the system can cause damage to the components and noisy or erratic system operation.

MAINTENANCE. Three simple maintenance procedures have the greatest effect on the hydraulic system performance, efficiency and life. Yet, the very simplicity of them may be the reason they are so often overlooked. What are they? Simply these:

1. Change filters regularly.
2. Maintain a sufficient quantity of clean hydraulic oil of the proper type and viscosity in the hydraulic reservoir.
3. Keep all connections tight.

Table 5-1. Special Tools

BRAKE ADJUSTMENT TOOL	SKYJACK PART 707704
17mm ALLEN WRENCH	PURCHASE LOCALLY
PRESSURE GAUGE 0 - 5000 psi	PURCHASE LOCALLY
PRESSURE GAUGE 0 - 1000 psi	PURCHASE LOCALLY
CYLINDER ASSEMBLY TOOL - 2" Inside Diameter	SKYJACK PART 706522
CYLINDER ASSEMBLY TOOL - 2-1/2" Inside Diameter	SKYJACK PART 706521
CYLINDER ASSEMBLY TOOL - 3-1/4" Inside Diameter	SKYJACK PART 709800
CYLINDER ASSEMBLY TOOL - 3-1/2" Inside Diameter	SKYJACK PART 703872
CYLINDER ASSEMBLY TOOL - 4-1/2" Inside Diameter	SKYJACK PART 703873
CYLINDER ASSEMBLY TOOL - 5" Inside Diameter	SKYJACK PART 706866

Tools-501

Table 5-2. Torque Specifications

DIRECTIONAL VALVE MOUNTING SCREWS						28-32 in. lbs.		
TURRET ROTATE GEAR MOUNTING BOLTS						375 ft. lbs.		
WHEEL MOUNTING BOLTS						290 ft. lbs.		
COUNTER WEIGHT BOLTS						240 ft. lbs.		
AXLE MOUNTING BOLTS						205 ft. lbs.		
HYDRAULIC PUMP MOUNTING BOLTS						75 ft. lbs.		
SPEED REDUCER MOUNTING BOLTS						175 ft. lbs.Light Oil		
CARTRIDGE VALVES								
SIZE			08	38	58	10	12	16
ft. lbs. (max)			20	20	20	25	35	50
in. lbs. (max)			240	240	240	300	420	600
COILS								
SIZE								
ft. lbs. (max)					4 to 5			
in. lbs. (max)					48 to 60			
SAE PLUGS								
SIZE	2	4	5	6	8	10	12	16
ft. lbs. (max)	3	10	15	15	25	25	30	35
in. lbs. (max)	36	120	180	180	300	300	360	400

Torques

ELECTRICAL SYSTEMS DIAGNOSTICS AND ADJUSTMENTS

O.E.M Controller Adjustments

NOTE: These procedures cover all boom functions.

1. Locate "THRESHOLD" potentiometer on joystick controller board for the function being adjusted and turn counter- clockwise until it clicks.
2. Locate "MAXOUT" potentiometer on joystick controller board for the function being adjusted and turn counterclockwise until it clicks.
3. Start engine, set engine R.P.M. switch to high engine.
4. Depress foot-switch, move the joystick for the function being adjusted slowly until the red LED light on the board just comes on.
5. While holding joystick at the light on position, turn the "THRESHOLD" potentiometer clockwise until movement in the functions just starts.
6. Turn the "THRESHOLD" potentiometer counterclockwise 1/2 turn.
7. Move joystick to full stroke and hold.
8. Turn the "MAXOUT" potentiometer clockwise until no increase in function speed can be felt.
9. Turn the "MAXOUT" potentiometer an extra 1/2 turn clockwise.
10. Paint potentiometer screws with fingernail polish to prevent vibration from changing settings.

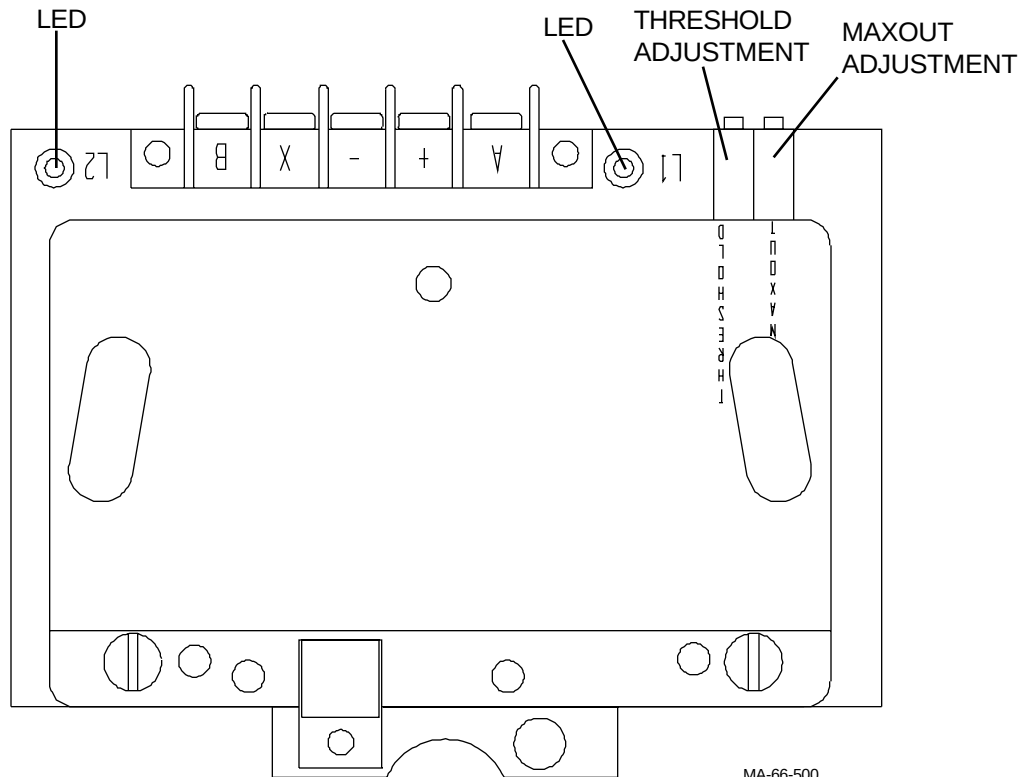


Figure 5-1. OEM Controller PC Board.

EDA BOARD DIAGNOSTICS

1. Start engine from base.
2. Fully retract the telescopic boom sections and lower the main boom below horizontal.
3. Using a Volt\Ohm meter, measure voltage at terminal 1 of the EDA board to a good chassis ground. Reading should be at least 12 volts.
4. Measure voltage between terminals 1 and 2. Reading should be the same as in Step 1.
5. Shut engine off.
6. Locate terminals 9 and 10 on EDA board and remove the attached wires.
7. Using a Volt\Ohm meter set to RX100 scale, measure resistance across the two wires removed in Step 9. Reading should be between 135 to 165 ohms. If reading is outside this range replace magnetic pickup.
8. Reconnect wires to terminals 9 and 10.
9. Restart the engine from the platform control console. Depress and hold foot switch.
10. Select 2600 RPM's with engine speed switch at the platform control console.
11. Measure the voltage at the terminal labeled "L" on the EDA board. It should read 5.9 volts. If no voltage present, replace EDA board. If reading is 1.95 volts precede to step 12. If reading is between 1.95 and 5.9 Volts, perform EDA board adjustment procedure. If reading does not change after performing adjustment procedure, replace EDA board.
12. Measure voltage between terminal 5 and a good chassis ground. If no voltage present, check and repair the mid boom out and or high drive\tilt over ride circuit. If a minimum of 12 volts is present, replace EDA board.

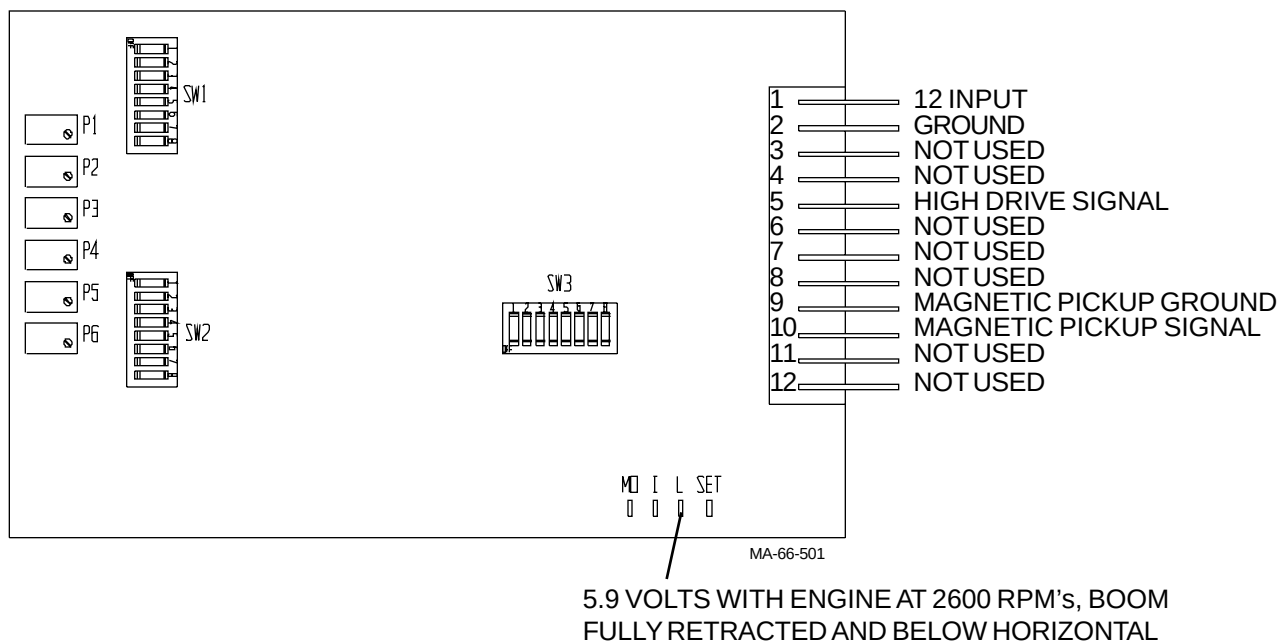


Figure 5-2. Multi-Purpose Controller (EDA) Card.

MDSD BOARD DIAGNOSTICS

1. Start engine from the platform control console and select mid RPMs (2100 RPMs).
2. Fully retract the telescopic boom sections and lower the main boom below horizontal.
3. Locate EDA and MDSD boards in base control cabinet.
4. Depress and hold the foot switch.
5. Using a Volt\Ohm meter, measure voltage at terminal 1 on MDSD board and a good chassis ground. A minimum of 12 volts should be present. Repair wiring if no voltage present.
6. Using a Volt\Ohm meter, measure voltage at terminal 1 and terminal 2 on MDSD board. A minimum of 12 volts should be present. Repair wiring if no voltage present.
7. Check fuse on MDSD board. Replace if blown.
8. Using a Volt\Ohm meter, measure voltage at terminal "L" on EDA board and a good chassis ground. Record reading.
9. Measure voltage at terminal 11 on MDSD board and a good chassis ground. It should read 1/2 the voltage measured at terminal "L" on EDA board. If no voltage present, refer to section 4 page 13 For "No drive" trouble in electrical trouble shooting.
10. Measure voltage at terminal 10 on MDSD board and a good chassis ground. It should read the same voltage measured at terminal 11 on MDSD board. If reading are not the same voltage, adjust drive joystick potentiometer until reading is the same voltage at terminal 11 on MDSD board. If no voltage present, refer to SECTION 4 Page 13 For "No drive" trouble in electrical trouble shooting.
11. Using a Volt\Ohm meter, measure voltage at terminal 10 on MDSD board, while the joystick is stroked forward and reverse. In forward the voltage on terminal 10 will increase. In reverse it will decrease. In both cases the increase or decrease should be smooth. If reading is erratic in either direction, replace drive joystick potentiometer.
12. Locate and remove wire 16 from terminal 3 on MDSD board.
13. Using a Volt\Ohm meter set on ohms scale, check continuity between wire 16 and a good chassis ground. If continuity present continue to step 11. If no continuity present, refer to SECTION 4 Page 14 under "No Drive Forward" in electrical trouble shooting.
14. Install a Volt\Ohm meter with a milliampere scale between terminal 3 and wire 16.
15. Move drive joystick in the forward direction. It should read approximately 400ma as joystick is at threshold and increase as joy stick is moved farther. If there is no reading, replace MDSD board. If reading is low, perform MDSD adjustments. Refer to Page 12 in this section for adjustment procedures.
16. Remove meter from MDSD board and reinstall wire 16 to terminal 3.
17. Locate and remove wire 15 from terminal 5 on MDSD board.
18. Using a Volt\Ohm meter set on ohms scale, check continuity between wire 15 and a good chassis ground. If continuity present continue to step 16. If no continuity present, refer to SECTION 4 Page 14 under "No Drive Reverse" in electrical trouble shooting.
19. Install a Volt\Ohm meter with a milliampere scale between terminal 5 and wire 15.
20. Move drive joystick in the reverse direction. It should read approximately 400ma as joystick is at threshold and increase as joy stick is moved farther. If there is no reading, replace MDSD board. If reading is low, perform MDSD adjustments. Refer to Page 12 in this section for adjustment procedures.
21. Remove meter from MDSD board and reinstall wire 15 to terminal 5.

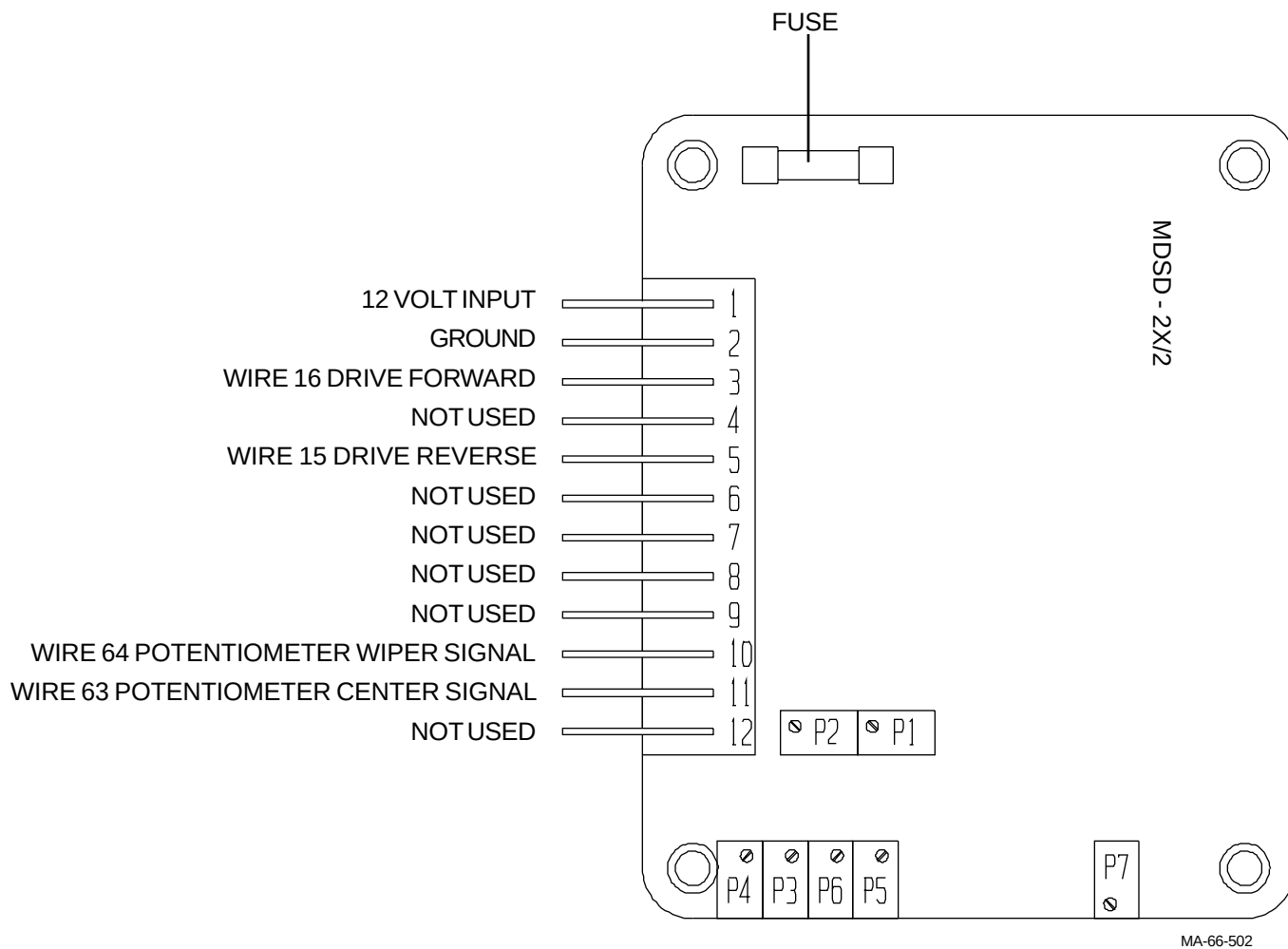


Figure 5-3. Dual Solenoid Driver (MDSD) Card.

EDA AND MDSD BOARD ADJUSTMENT PROCEDURES

1. Set dip switches on SW1, SW2 and SW3 according to the chart on Figure 5-5. Base EDA Board Setting.
2. Disconnect wire 59 from terminal 5 of EDA board.
3. Set potentiometers P1 through P6 according to the chart on Figure 5-5. Base EDA Board Setting.
4. Switch base key switch to platform, pull out basecontrol panel emergency stop switch.
5. Pull out platform control console emergency stop switch and turn ignition switch to on.

NOTE: DO NOT START ENGINE AT THIS TIME.

6. Depress foot switch.
7. Attach meter leads to the "Set" and "MO" terminals on the EDA board. Refer to Figure 5-5. Base EDA Board Setting for terminal location.
8. Adjust P6 on EDA board to 0 volts.
9. Start engine and select 1600 RPM's with engine speed switch. (Lower position)
10. Attach meter leads to the "L" terminal of the EDA board and a good chassis ground. (The rest of the adjustments to the EDA board will be measured this way)
11. Adjust P1 on EDA board to 1.26 volts.
12. Select 2600 RPM's with engine speed switch (Upper position).
13. Adjust P2 on EDA board to 1.95 volts.

NOTE: Dip switch sequence 1 - 4 on SW1 may have to be changed in order to obtain 1.95 volts.

14. Reattach wire 59 to terminal 5 of the EDA board. Make sure the telescopic boom sections are fully retracted and the main boom is below horizontal.
15. Select 1600 RPM's with engine speed switch (Lower position).
16. Adjust P3 on EDA board to 3.35 volts.
17. Select 2600 RPM's with engine speed switch (Upper position).
18. Adjust P4 on EDA board to 5.9 volts.

NOTE: Dip switch sequence 1 - 4 on SW2 may have to be changed in order to obtain 5.9 volts.

19. On earlier models disengage drive motor from axle 2WD or the transfer case on 4WD machines or override drive relief valves on newer machines. (See page 2-5 For instructions.)



Place machine on level surface and block wheels to prevent machine from rolling. Failure to follow this warning may result in death or serious injury.

20. Start engine. Steps 21-32 will be performed with engine running and in high engine setting. Steps 33-46 will be performed with engine running and in low engine setting.

NOTE

The following procedures require a volt/ohm meter capable of reading milliampere.

21. Remove wire 16 from terminal 3 of MDSD board.
22. Attach milliammeter between wire 16 and terminal 3.
23. Move drive joystick to the full forward position.
24. Adjust P3 on MDSD board to 1175 milliampere (1.175A).
25. Remove meter from wire 16 and terminal 3. Reattach wire 16 to terminal 3.
26. Remove wire 15 from terminal 5 of MDSD board.
27. Attach milliammeter between wire 15 And terminal 5.
28. Fully retract and lower the boom.
29. Move drive joystick fully to the reverse position.
30. Adjust P4 on MDSD board to 1175 milliampere (1.175A).
31. Remove meter from wire 15 And terminal 5. Reattach wire 15 to terminal 5.

32. Reengage drive motor to axle.
33. Extend boom approximately 3 feet to put machine in creep speed mode.
34. Mark the side of a tire at a point closest to the ground.
35. Fully stroke the drive joystick in the forward position.
36. Using the mark on the side of the tire, time how long it takes to make 1/2 revolution.
37. Adjust P5 on the MDSD board to obtain 1/2 revolution in 15 seconds.
38. Fully stroke the drive joystick in reverse.
39. Using the mark on the side of the tire, time how long it takes to make 1/2 revolution.
40. Adjust P6 on the MDSD board to obtain 1/2 revolution in 15 seconds.
41. Mark off 50 feet in an open area.
42. Retract boom fully to put machine in high speed mode.
43. Time how long it takes to travel 50 feet. Machine should travel 50 feet in 8 1/2 to 10 1/2 seconds.
44. Adjust P3 on MDSD board for forward to obtain 50 feet in 8 1/2 to 10 1/2 seconds.
45. Adjust P4 on MDSD board for reverse to obtain 50 feet in 8 1/2 to 10 1/2 seconds.
46. If adjustment on P3 or P4 require increasing output, repeat steps 19 through 31.



Do not exceed 1200 milliampere (1.2A) on wire 15 or 16. Damage to drive coils will result! If output requires a reading higher than 1200 milliampere (1.2A) to obtain 50 feet in 9 1/2 to 10 1/2 seconds, check for binding in the drive system such as brakes dragging.

47. Apply nail polish or RTV silicone, to prevent vibration from changing potentiometer settings.

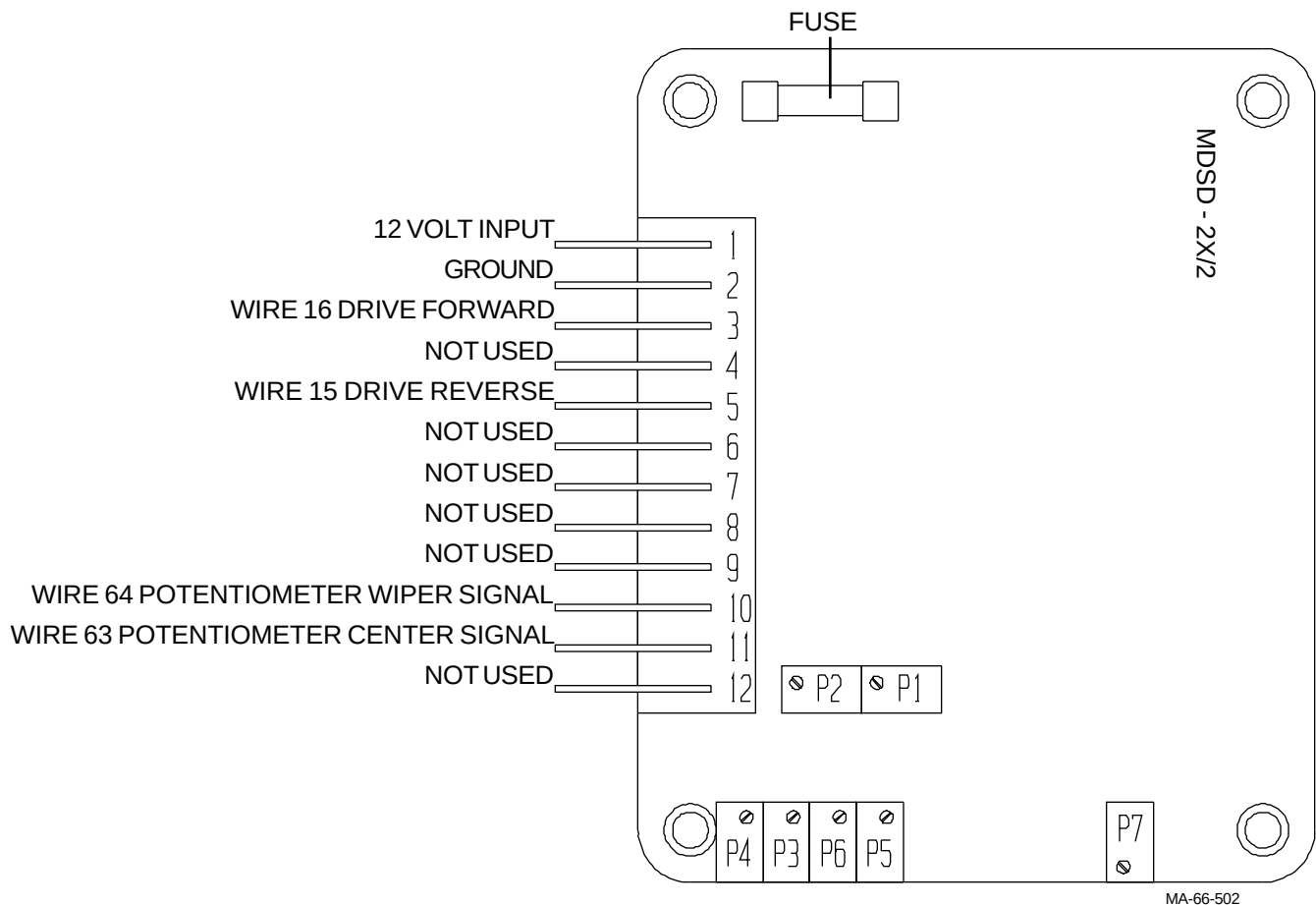
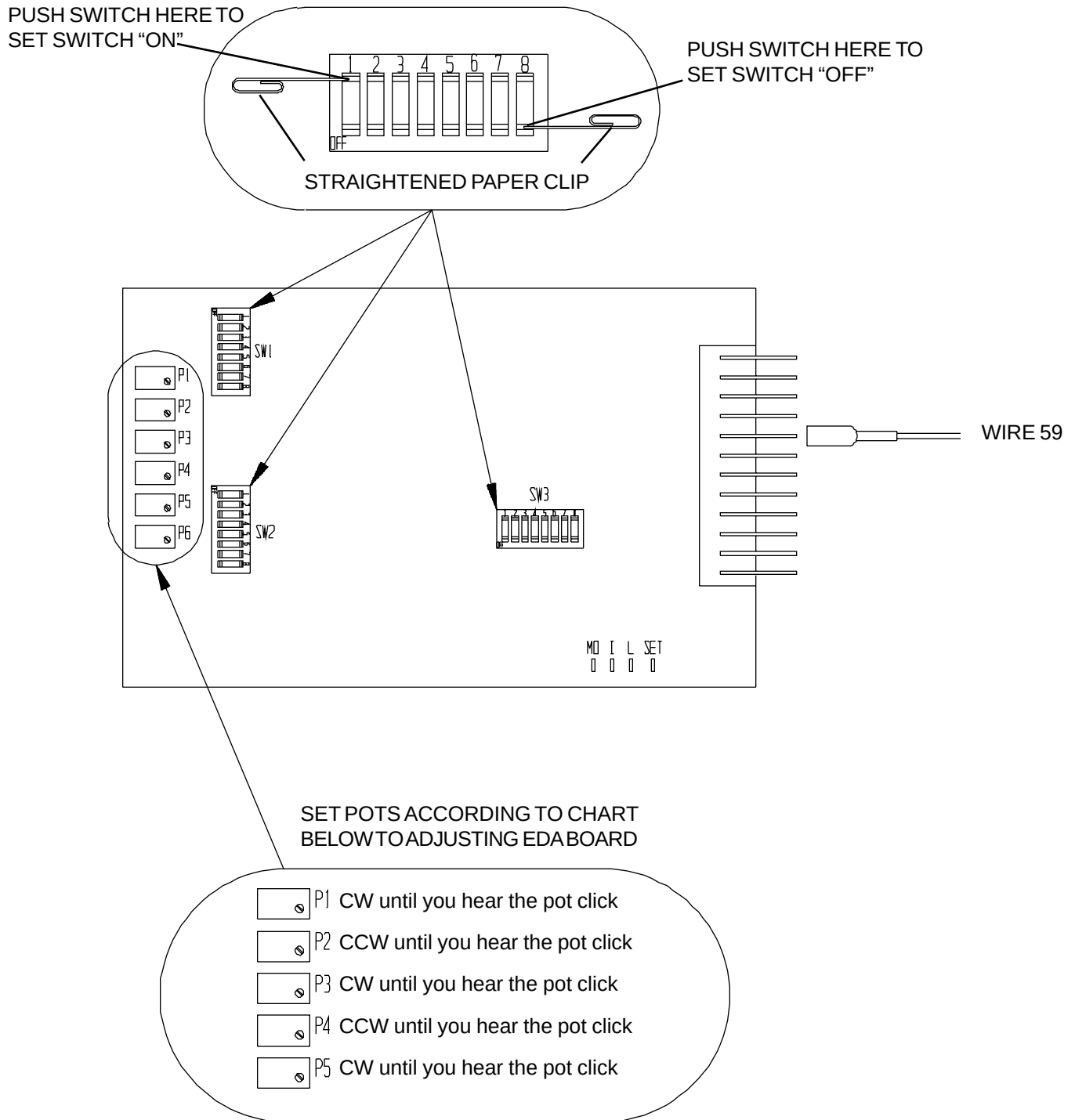


Figure 5-4. Dual Solenoid Driver (MDSD) Card.

SET DIP SWITCHES ACCORDING TO CHART BELOW

	1	2	3	4	5	6	7	8
SW1	ON	ON	ON	ON	ON	ON	ON	ON
SW2	OFF	OFF	ON	OFF	ON	OFF	OFF	OFF
SW3	ON	OFF	ON	OFF	OFF	OFF	OFF	OFF



MA-66-503

Figure 5-5. Base EDA Board Settings.

LEVELING CIRCUIT DIAGNOSTICS

1. Open platform control console.
2. Locate the leveling board.
3. Locate the terminal labeled "Vs" and "GND" on level board. Refer to Figure 5-6 for location.
4. Start engine and select low RPM'S.
5. Move the main boom joystick in the up position until boom motion is just noticeable. Hold the joystick in this position.
6. Measure voltage between the terminals labeled "Vs" and "GND" on platform leveling board. It should read 11-13 Volts. If no voltage present, repair wiring from terminal strip to leveling board or relay 107CR. If voltage present, proceed to Step 7.
7. Shut engine off.
8. Using a jumper wire, connect the terminal labeled "Vs" to a 12 volt source in the platform.
9. Locate the terminals labeled "+" and "-". Refer to Figure 5-6 for location.
10. Measure voltage between the terminals "+" and "-". It should read 6.2 Volts $\pm$.2 Volts. If no voltage present, replace leveling board. If voltage present, proceed to step 11.
11. Locate the terminal labeled "SIG". Refer to Figure 5-6 for location.
12. Measure voltage between the terminals labeled "SIG" and "-". It should read 3.1 volts $\pm$.2 volts. If no voltage present, repair broken wire between level sensor and leveling board or replace level sensor. If voltage present, go to step 13.
13. Remove cover from level sensor.
14. Measure voltage at the terminals labeled "SIG" and "-" while gently tipping the top of the leveling sensor toward the platform. The voltage should start at 3.1 volts and increase to 4.8 Volts. If no voltage present or does not increase, repair broken wire between level sensor and leveling board or replace level sensor. If voltage present, proceed to step 15.
15. Measure voltage at the terminals labeled "SIG" and "-" while gently tipping the top of the leveling sensor away from the platform. The voltage should start at 3.1 volts and decrease to 1.1 Volts. If no voltage present or does not decrease, repair broken wire between level sensor and leveling board or replace level sensor. If voltage present, proceed to step 16.
16. Attach meter leads to the terminal labeled "PWM A" and a good "GND".
17. Gently tip the top of the leveling sensor toward the platform. The meter should read 3.1 Volts at threshold to 7.9 to 8.8 Volts at close to full sensor tilt. If no voltage present or does not fluctuate, replace leveling board. If voltage present proceed to Step 18.
18. Attach meter leads to the terminal labeled "PWM B" and "GND".
19. Gently tip the top of the leveling sensor away from the platform. The meter should read 3.1 Volts at threshold to 7.9 to 8.8 Volts at close to full sensor tilt. If no voltage present or does not fluctuate, replace leveling board.

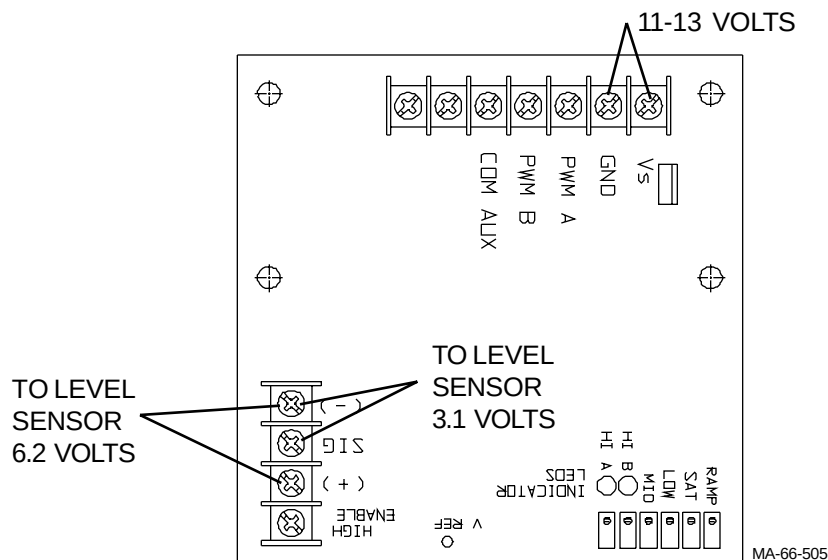


Figure 5-6. Leveling Circuit Control Board.

PLATFORM LEVELING ADJUSTMENT PROCEDURE

NOTE: The potentiometers marked "HI A" and "HI B" are not used. No adjustments are needed on these potentiometers.

1. Locate leveling control board inside platform control box.
2. Locate the potentiometers on the leveling control board marked "RAMP", "LOW", and "MID". Refer to Figure 5-7 for component location.
3. Turn the "RAMP", "LO" and "MID" potentiometer adjusting screws counter-clockwise until they click. NOTE: These are 25 turn potentiometers. If the click can not be heard turn the potentiometer 25 turns counter-clockwise.
4. Place a level on the floor of the platform, parallel to the boom.
5. Using the Manual Platform Leveling Switch, level the Platform, using the level on the floor of the Platform as a guide.
6. Remove the cover from the Level Sensor.
7. Using a "Bulls Eye" Bubble Level on top of the Level Sensor, adjust Sensor mounting bolts to level the Sensor .
8. From the Platform Controls, raise the Main Boom until platform is severely out of level.
9. With the engine running in low R.P.M.'s and the Foot Switch depressed, move the Main Boom joystick in the up direction until boom just starts to move. Slowly release the Joystick until movement just stops but the function is still active. Hold the Joystick in this position.
10. While holding the Main Boom Joystick in the position described in step 9, locate and adjust the "LOW" potentiometer on the Leveling Board until the Platform just starts to level.
11. Continue to hold the Main Boom Joystick until the Platform has leveled itself.
12. Switch the engine to HI R.P.M.'s. Operate the Main Boom up and down.
13. Locate and adjust the "MID" potentiometer so the Platform maintains a level position at all lift up and down speeds.
14. Shut engine off.

NOTE: The following adjustments are to be made only if the Platform leveling reacts too fast or too slow or if the "SAT" potentiometer has been tampered with.

NOTE: The following steps require 2 VOM meters.

15. Locate on the Leveling Board, the terminals labeled "SIG", "PWM A" and "GND".
16. Attach the Red lead from one of the meters to the "SIG" terminal and the Black lead to the "GND" terminal.
17. Attach the Red lead of the second meter to the "PWM A" terminal and the Black lead to the "GND" terminal.
18. Using a jumper wire, connect the terminal labeled "Vs" to a 12 volt source in the Platform Control Box.

NOTE: Do not start engine at this time.

19. At the Level Sensor, SLOWLY tilt the sensor AWAY from the Platform until the meter attached to the "SIG" terminal reads 1.1 volts. Hold the sensor in this position.
20. Observe the reading on the meter attached to the "PWM A" terminal. It should read 7.9 volts. If the 7.9 volt signal appears before the 1.1 volt signal locate and turn the "SAT" potentiometer counter-clockwise 1/2 turn. Release the Level Sensor. Repeat Step 19, while observing meters. Adjust the "SAT" potentiometer until a 7.9 volt signal appears on the "PWM A" meter at the same time as the 1.1 volt signal appears on the "SIG" meter.
21. Paint all potentiometer adjusting screws with nail polish or RTV Silicone to prevent vibration from changing settings.

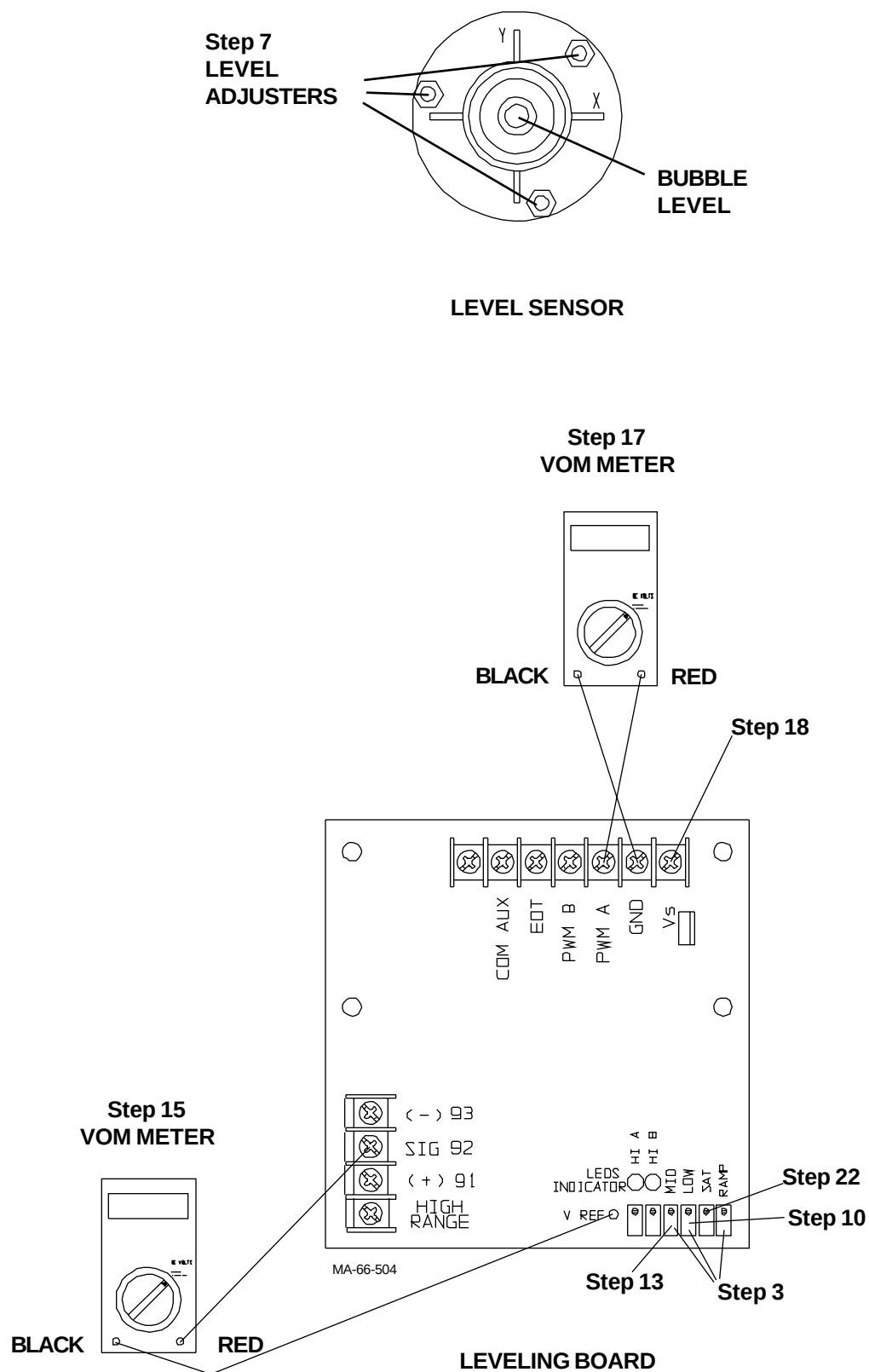


Figure 5-7. Leveling Circuit Control Board and Level Sensor.

BARBER\COLMAN GOVERNOR DIAGNOSTICS

1. At carburetor, check movement of throttle shaft. It should move freely and spring return to the idle position. Repair any binding of the throttle shaft.
2. Locate the electrical connector in the actuator wires, between governor control box and the governor actuator on the carburetor.
3. Disconnect the connector and using a volt/ohm meter set on the RX10 scale, measure resistance of the actuator coil. Resistance should be $2 \text{ OHMS} \pm .5 \text{ OHMS}$. If reading outside of this range, replace actuator. Reconnect the connector.
4. Start engine from base control panel.
5. At the governor control, measure voltage between terminals 1 and 2. It should read $12 \text{ volts} \pm 2 \text{ volts}$. If no voltage present repair wiring between control box and engine terminal strip.
6. Activate speed switch "B" and measure voltage between terminal 8 on the governor control box and a good chassis ground. It should read $12 \text{ volts} \pm 2 \text{ volts}$. If no voltage present, repair wiring between speed switch "B" and control box.
7. Activate speed switch "A" and measure voltage between terminal 7 on the governor control box and a good chassis ground. It should read $12 \text{ volts} \pm 2 \text{ volts}$. If no voltage present, repair wiring between speed switch "A" and control box.
8. Measure voltage between terminals 5 and 6 and a good chassis ground. The voltage at each terminal should be the same and fluctuate with engine RPM'S. If no voltage present, repair wiring between governor control box and the distributorless ignition modules.

Note: The absence of voltage on either terminal 5 or 6 will cause the governor to operate the engine at double the set RPM.

9. Measure the voltage on terminal 3 and a good chassis ground. It should read $12 \text{ volts} \pm 2 \text{ volts}$. If no voltage present, replace governor control box.
10. Attach voltmeter to terminals 3 and 4. Activate speed switches as listed in the table on Figure5-8. and measure voltage. If no voltage present, replace governor control box. If readings too high or too low, Perform governor adjustment procedure. See page 20 in this section.

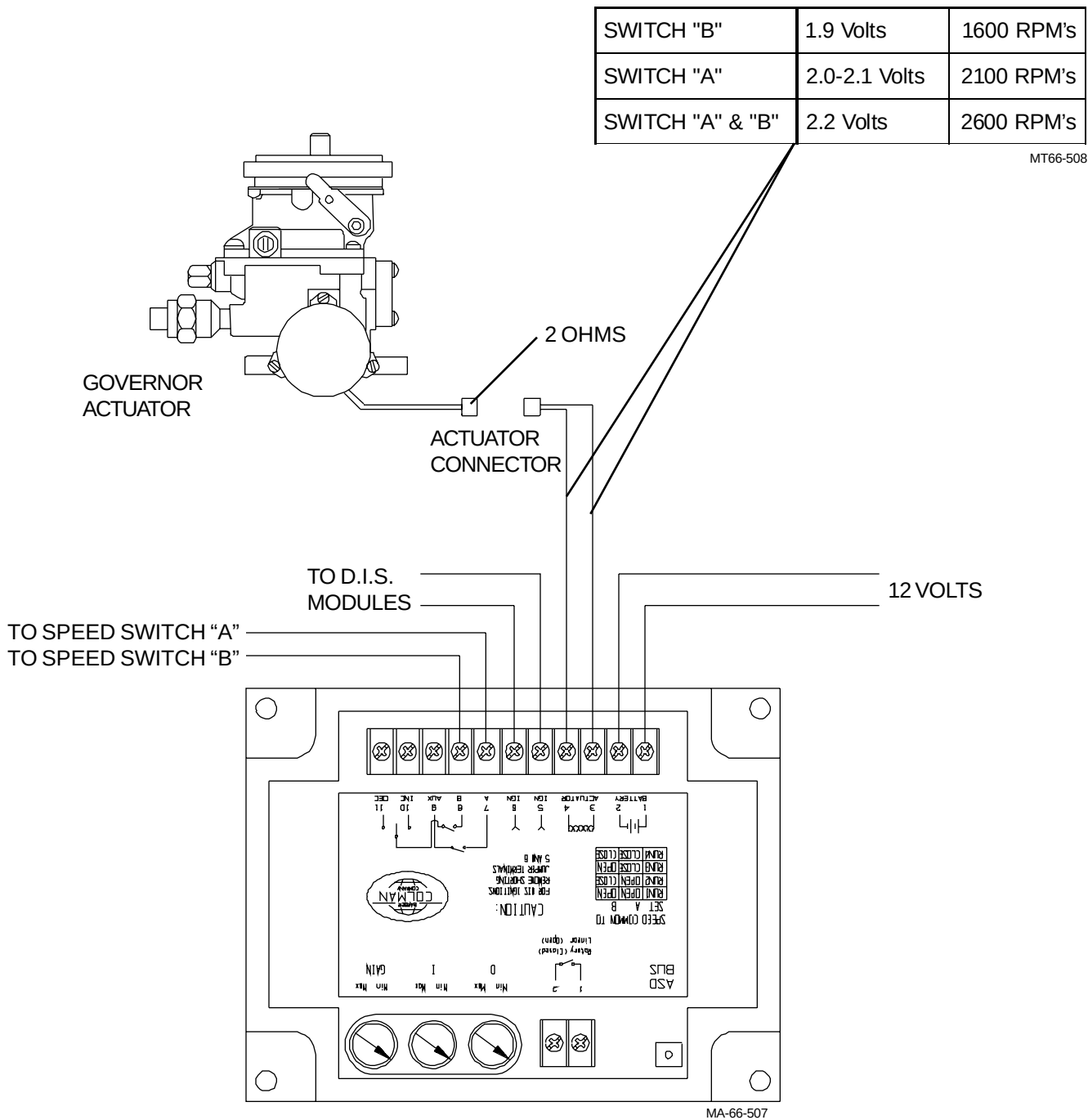


Figure 5-8. Barber Colman Governor Control Diagnostics.

BARBER COLMAN GOVERNOR ADJUSTMENTS

1. Start and run engine until at normal operating temperature.
2. Set the "D", "I" AND "GAIN" potentiometers as shown in Figure 5-9.
3. Shut engine off. Disconnect governor actuator from the control box at the weather pack connector.
4. Attach a tachometer to the engine and start.
5. Adjust engine base RPM's to 850 RPM's, by loosening the three screws mounting the actuator and turning actuator housing.
6. Shut engine off. Reconnect actuator to control box.
7. Select platform with key switch and start engine from the platform control console.
8. Adjust engine governor to 900 RPM's by jumping terminal 9 to 10 to increase RPM's or terminal 9 to terminal 11 to decrease RPM's.
9. At the governor control panel, switch the toggle switch labeled "B" up and hold.
10. Adjust engine governor to 1600 RPM's by jumping terminal 9 to 10 to increase RPM's or terminal 9 to terminal 11 to decrease RPM's.
11. Release the toggle switch labeled "B" and switch the toggle switch labeled "A" up and hold.
12. Adjust engine governor to 2100 RPM's by jumping terminal 9 to 10 to increase RPM's or terminal 9 to terminal 11 to decrease RPM's.
13. While holding the toggle switch labeled "A" up switch the toggle switch labeled "B" up and hold.
14. Adjust engine governor to 2600 RPM's by jumping terminal 9 to 10 to increase RPM's or terminal 9 to terminal 11 to decrease RPM's.
15. Release toggle switches and recheck settings by switching toggle switches. Readjust if necessary.

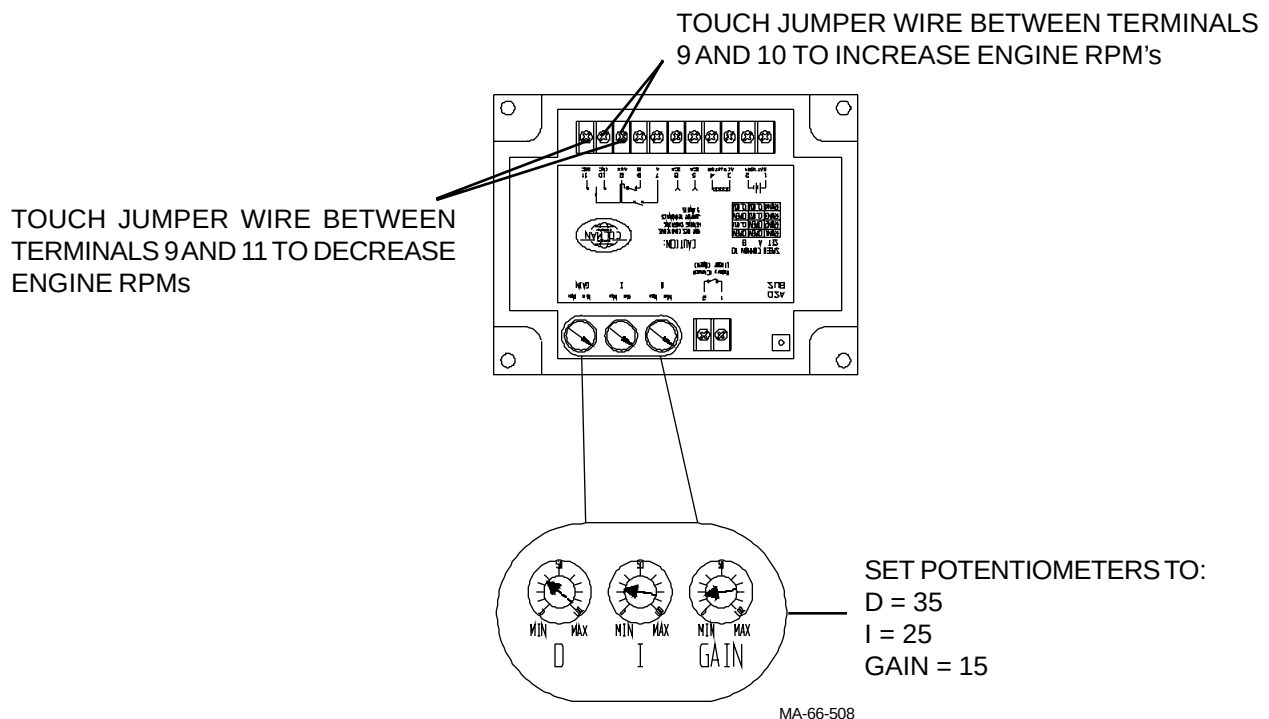


Figure 5-9. Barber Colman Governor Control.

MAGNETIC PICK UP TEST PROCEDURE

1. Locate magnetic pickup on engine bell housing. Trace leads from the magnetic pickup to the terminal strip on back of engine.
2. Mark location of leads from the magnetic pickup and remove from terminal strip.
3. Using a volt/ohm meter set on the RX100 scale, measure the resistance across the leads. Refer to Figure 5-10. It should read between 135 - 165 ohms. If reading is outside of this range, the pick up is defective.
4. To test the magnetic pickup operation, with leads removed from the terminal strip, start engine and turn high engine switch to high (2600 RPM's).
5. With volt/ohm meter set to A.C. volts scale, measure voltage across leads. At 2600 RPM's you should read at least 10 volts A.C.. If reading is below 10 volts A.C. the magnetic pickup is defective.

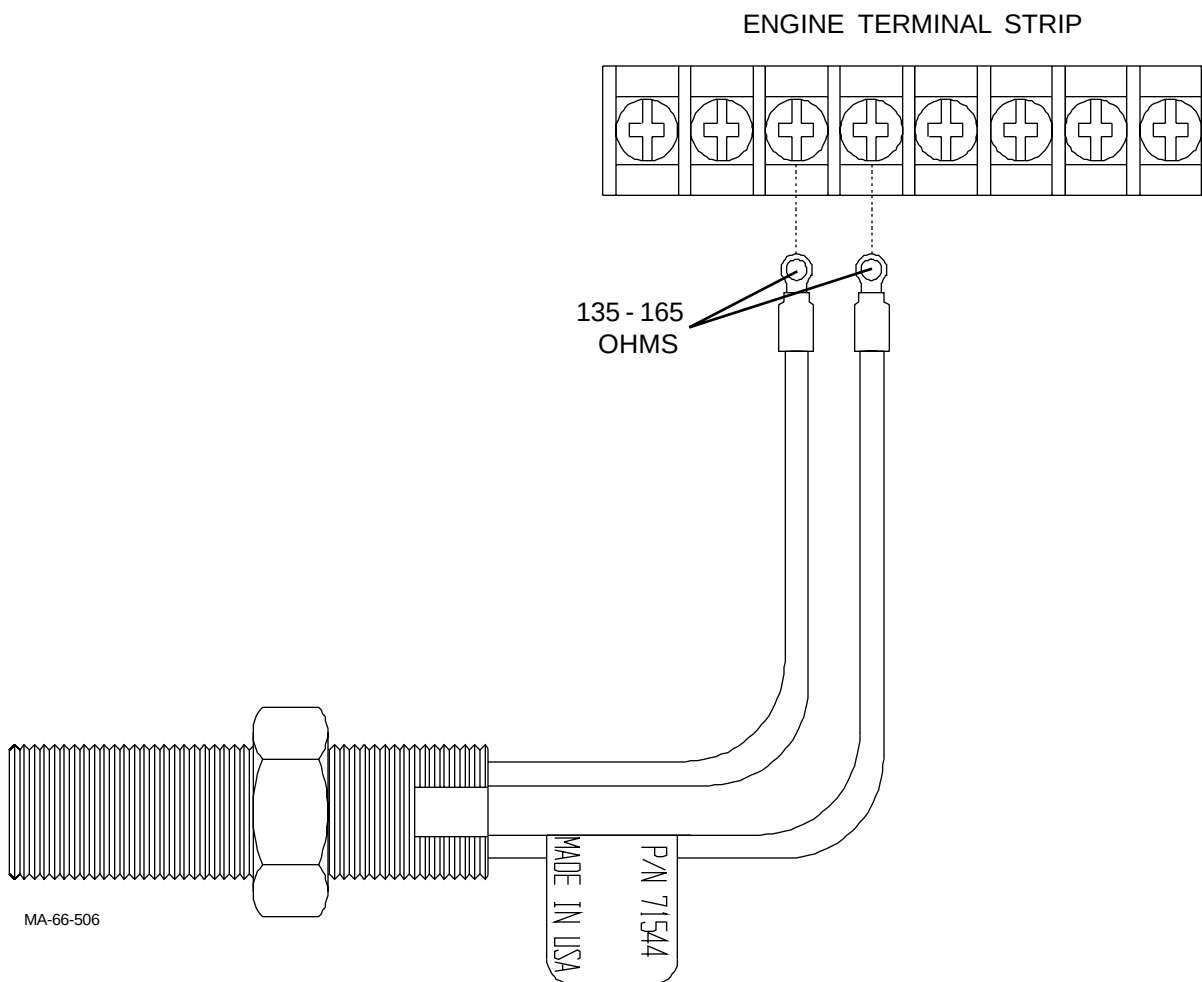


Figure 5-10. Magnetic Tachometer Pickup.

MAGNETIC PICKUP REPLACEMENT INSTRUCTIONS

1. Locate and mark the location of the wires from the magnetic pickup to the terminal strip on the back of the engine.
2. Remove wires from terminal strip.
3. Loosen locknut securing the magnetic pickup to the engine bellhousing.
4. Remove magnetic pickup from bellhousing by turning counter-clockwise.
5. Remove locknut from defective pickup and install on the replacement pickup.
6. Using the engine starter, "bump" the engine until a tooth on the flywheel is in the center of the pickup bore.
7. **Gently** turn the replacement pickup clockwise until it just bottoms out on the flywheel tooth.
8. Turn the magnetic pickup counter-clockwise 1/2 turn.

NOTE: Do not exceed 1/2 turn or pickup will not sense the flywheel properly.

9. Tighten lock nut against bellhousing.
10. Attach pickup wires to the terminal strip on the back of the engine.
11. Start engine from the platform and select high engine RPM's (2600 RPM's).
12. Check voltage between terminal "L" on the EDA board and a good chassis ground (Refer to EDA/MDSD adjustment procedure for location). It should read 5.9 volts D.C. Perform EDA/MDSD adjustment procedure if voltage does not read 5.9 volts D.C.

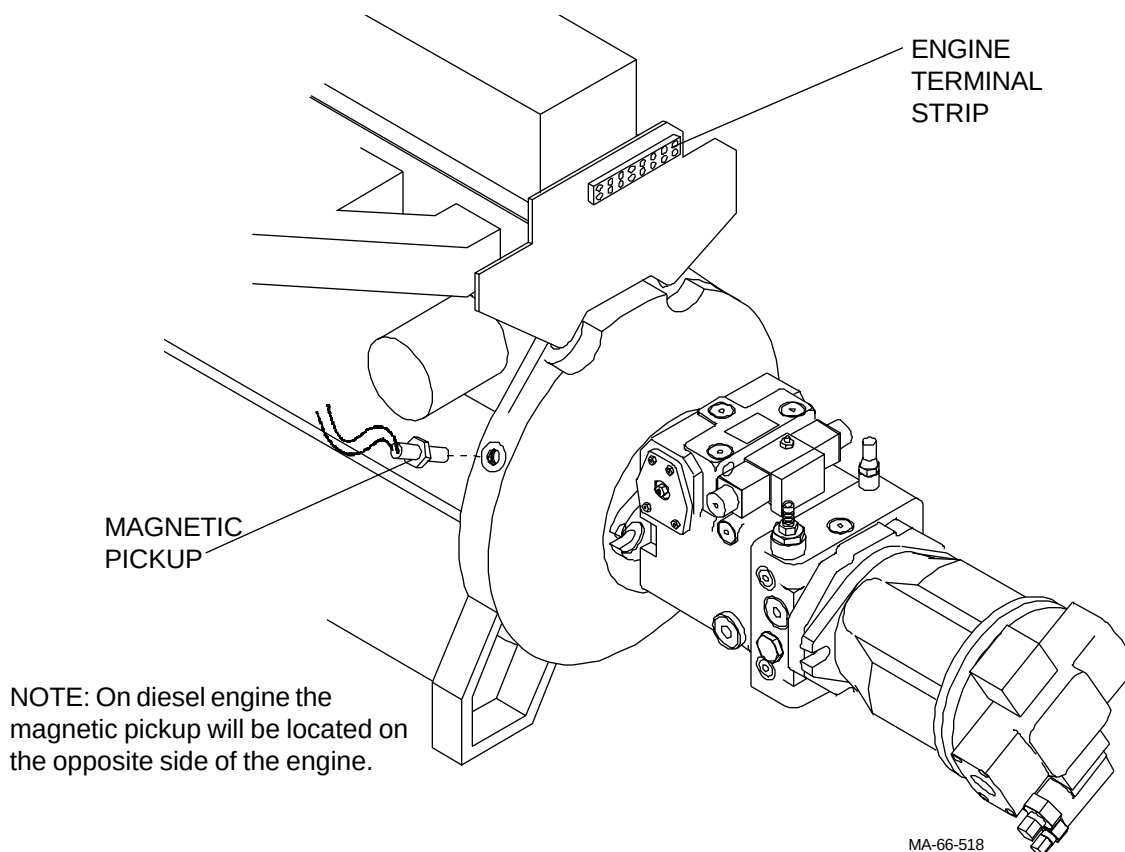


Figure 5-11 Magnetic Pickup Location (Ford engine shown)

MID BOOM OUT PROXIMITY SWITCH ADJUSTMENT



WARNING

DO NOT attempt to adjust mid boom out proximity switch with engine running. Unexpected movement of the mid boom could occur.

End Clearance Adjustment

1. With Mid Boom fully extended, remove proximity switch and measure from outside surface of knuckle to the wear pad insert. (distance "A")
2. Measure from the surface of the proximity mounting plate to the tip of the proximity switch. (distance "B") The difference between distance A and B should be between 0.0625 (1.5mm) and 0.157 (4mm) for the switch to operate properly.

Contact Point Adjustment

3. With Mid Boom fully extended, loosen the proximity switch mounting hardware.
4. Slide the switch toward the platform.
5. Slowly slide the switch back towards the base of the machine, stopping 1/16 (1.5mm)" past the point when the contact indicator light comes on.
6. Tighten mounting hardware.

NOTE: It may be necessary to add weight the platform to achieve proper adjustment.

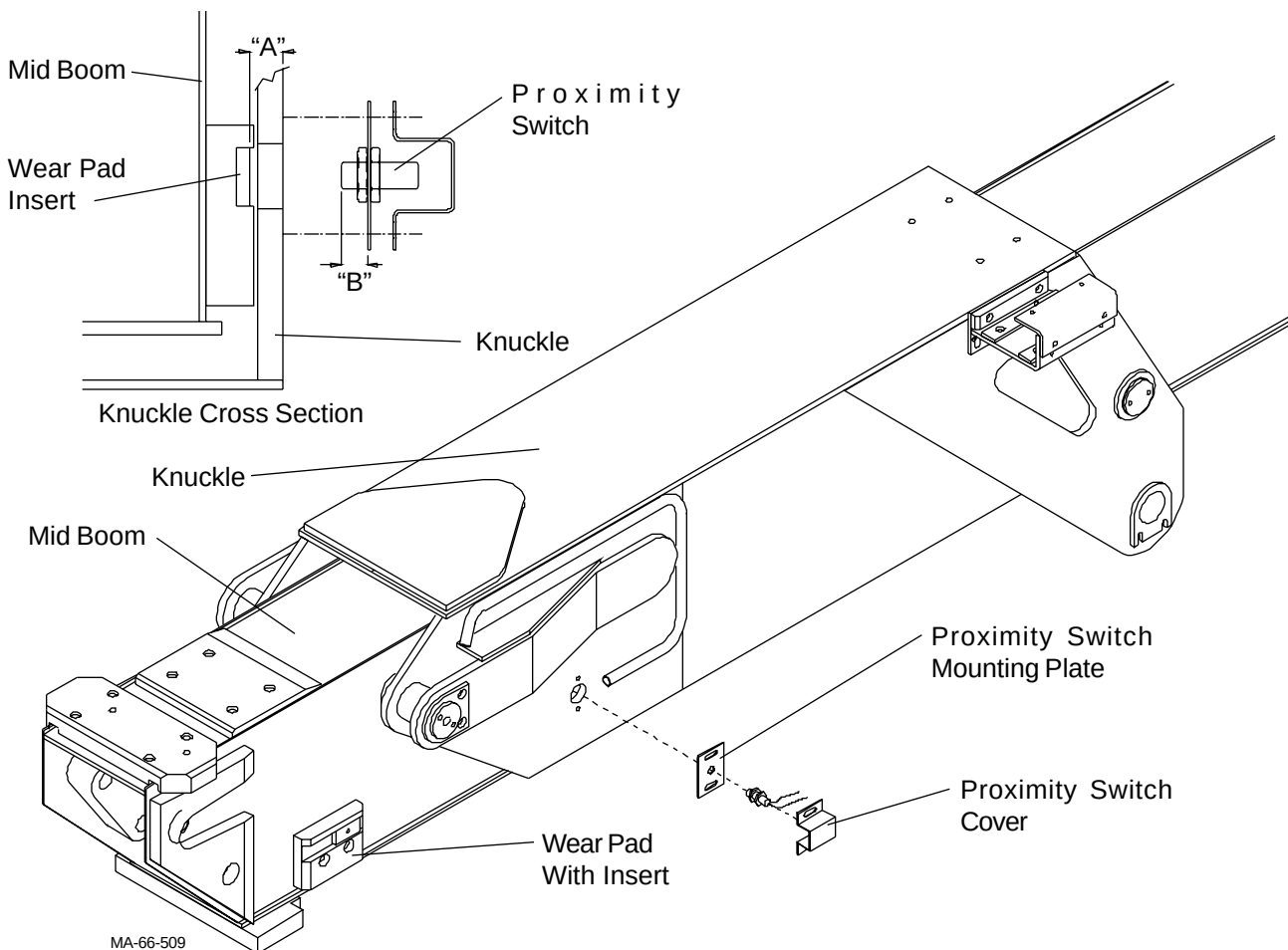


Figure 5-12 Mid Boom Out Proximity Switch Adjustment

HYDRAULIC SYSTEM DIAGNOSTICS AND ADJUSTMENTS

DRIVE PUMP TEST PROCEDURE

NOTE: Perform tests with basket over non-steer axle, boom below horizontal and fully retracted.

For the following procedure refer to Figure 5-13, and Figure 5-14.

1. Locate and remove the hose attached to the port labeled "Ps" on the drive pump.
2. Cap hose to prevent contaminating hydraulic system.
3. Install a 3000 PSI gauge into the port labeled "Ps" on the drive pump.
4. Start engine from base controls.
5. Check reading on gauge. It should read 350 PSI. If 350 PSI present, move to step 9. If no pressure present, go to next step.
6. If no pressure present or below 350 PSI, replace relief valve RV3.
7. If no pressure present or below 350 PSI after replacing relief valve RV3, replace the pressure over ride valve POR1.
8. If no pressure present or below 350 PSI, replace drive pump.
9. Locate and disconnect the forward drive hose from the top of the rotary manifold.
10. Cap port in rotary manifold to prevent contaminating hydraulic system.
11. Install a 10,000 PSI gauge into the hose.
12. Start engine from platform.
13. Select low engine RPM'S (1600 RPM'S).
14. **SLOWLY** move drive joystick in the forward direction.
15. Observe gauge reading. Gauge should read 4800 PSI. If 4800 PSI present drive pump is operating properly. If no pressure present, replace drive pump.

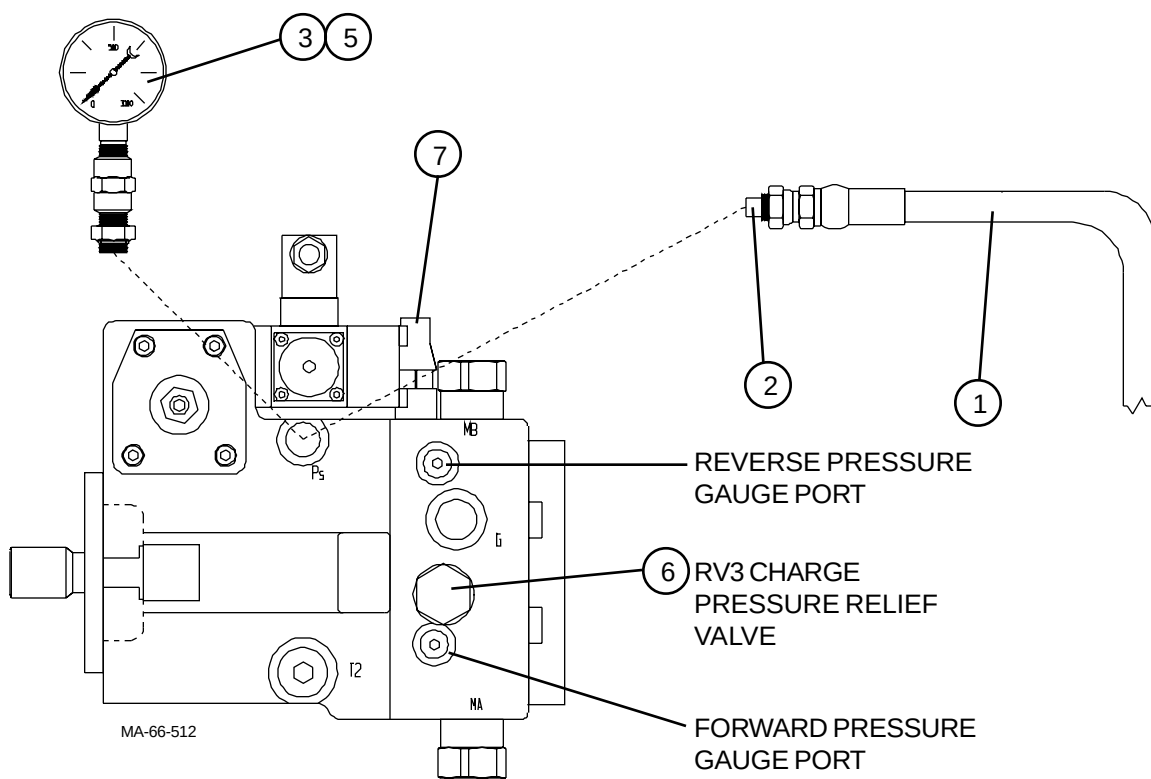


Figure 5-13 Drive Pump Test Ports

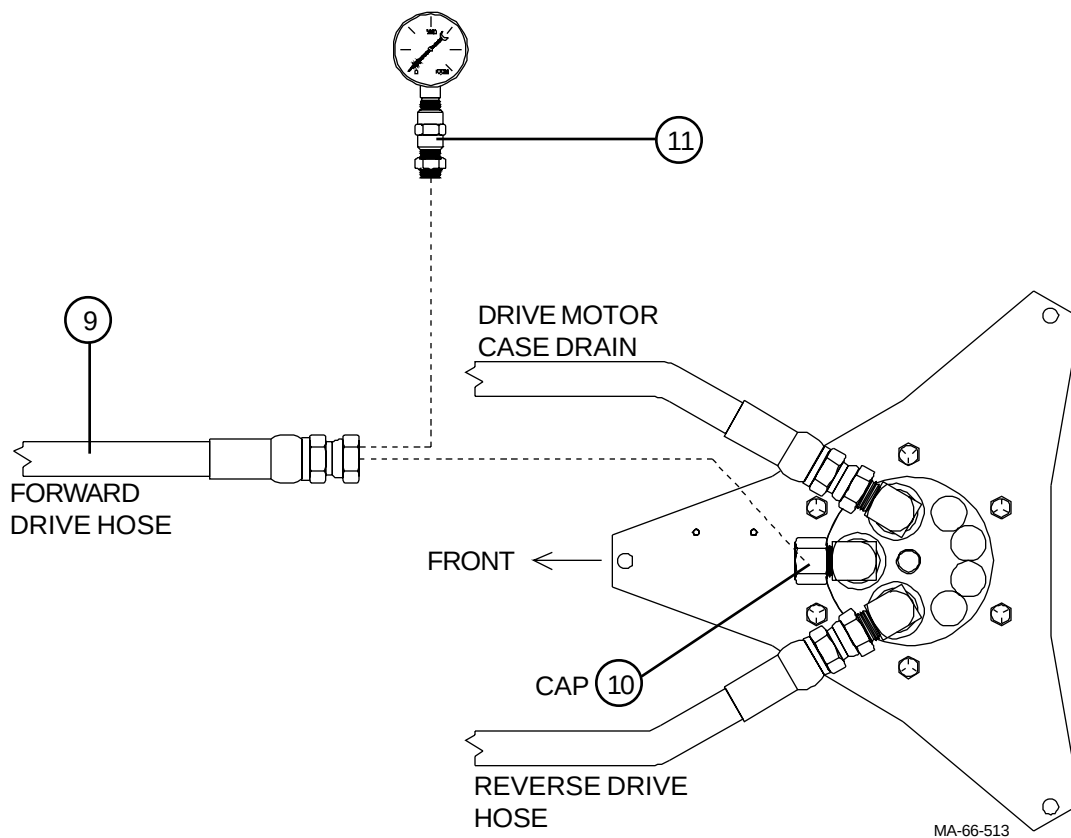


Figure 5-14 Rotary Manifold

Boom Function Pump Pressure Adjustments

1. Remove plug and install a 5000 PSI gauge into port "X" on the boom function pump. Refer to Figure 5-15 for location.
2. Remove cap off the system pressure adjusting valve.
3. Loosen lock nut on system pressure adjusting valve.
4. Start engine from base.
5. Raise jib arms above main boom.
6. Locate the main boom down toggle switch. Depress and hold in the down position.
7. Adjust system pressure adjusting valve to obtain 2650 PSI.
8. Shut off engine.
9. Tighten lock nut and reinstall cap.
10. Remove gauge from port "X" and install plug removed in step 1.
11. Install a 1000 PSI gauge into port closest to pump housing.
12. Remove cap from load sense pressure adjusting valve. Refer to Figure 5-15.
13. Loosen lock nut on load sense pressure adjusting valve.
14. Start engine. **DO NOT operate any functions.**
16. Adjust load sense pressure adjusting valve to obtain 250 PSI.
17. Tighten lock nut and reinstall cap.
18. Remove gauge from port and install plug removed in step 11.

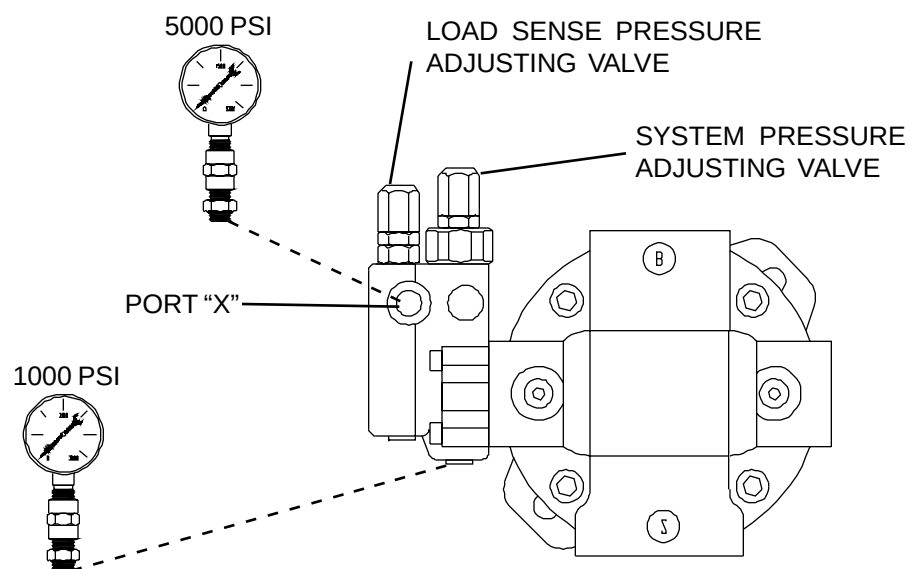


Figure 5-15. System Pressure Adjustment.

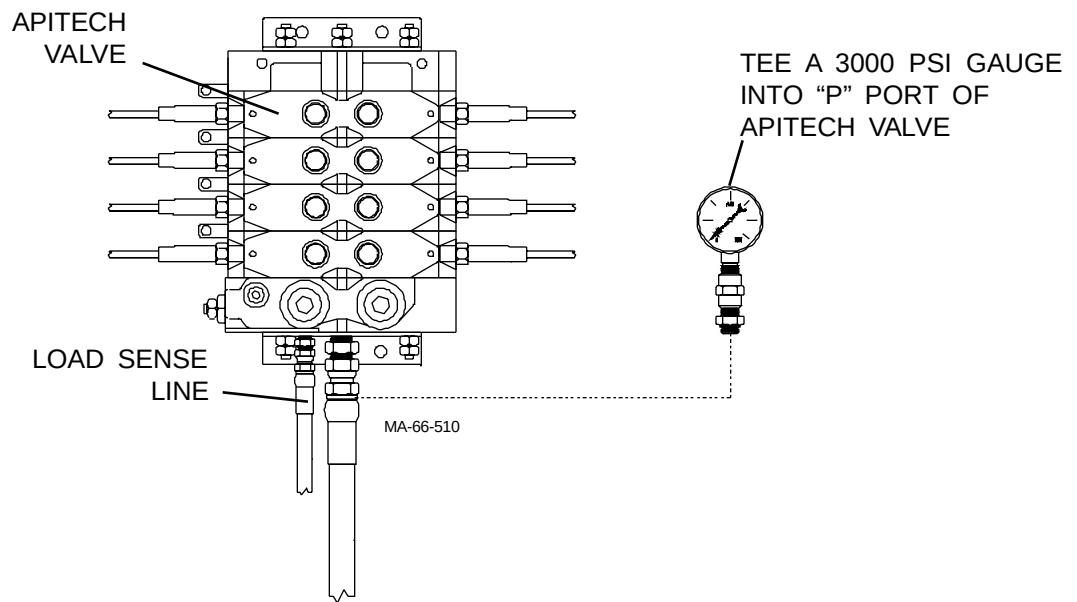


Figure 5-16. Proportional Valve Bank.

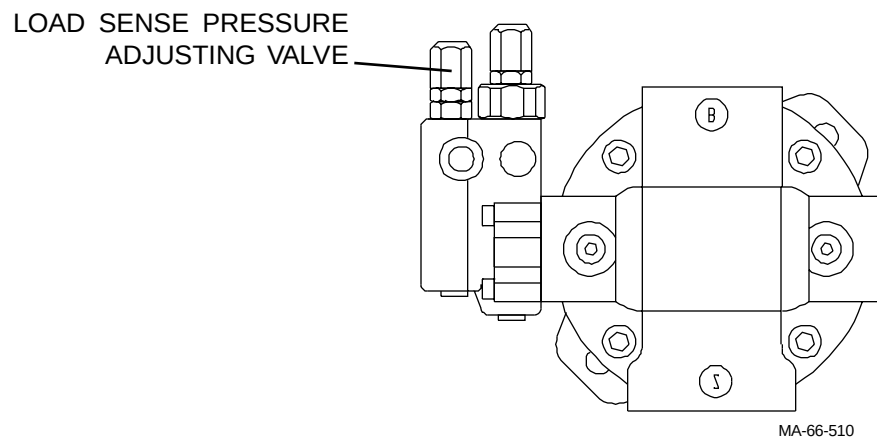


Figure 5-17. Load Sense Pressure Adjustment.

BOOM FUNCTION SPEED ADJUSTMENT

1. Using a stop watch, time the full travel of the function to be adjusted. For turret rotate, mark a spot on the chassis and time how long it takes to make one complete revolution.

Note: Time the function in both directions as each direction is capable of being adjusted.

2. Locate the valve section to be adjusted. Refer to Figure 5-18.
3. Loosen lock nuts on flow limiter adjustment screws. Refer to Figure 5-19.
4. Using the chart, locate adjusting screw for the direction being adjusted.
5. Turning adjusting screw clockwise slows down the function.
6. Turning adjusting screw counterclockwise speeds up the function.
7. Tighten lock nuts after completing adjustments.

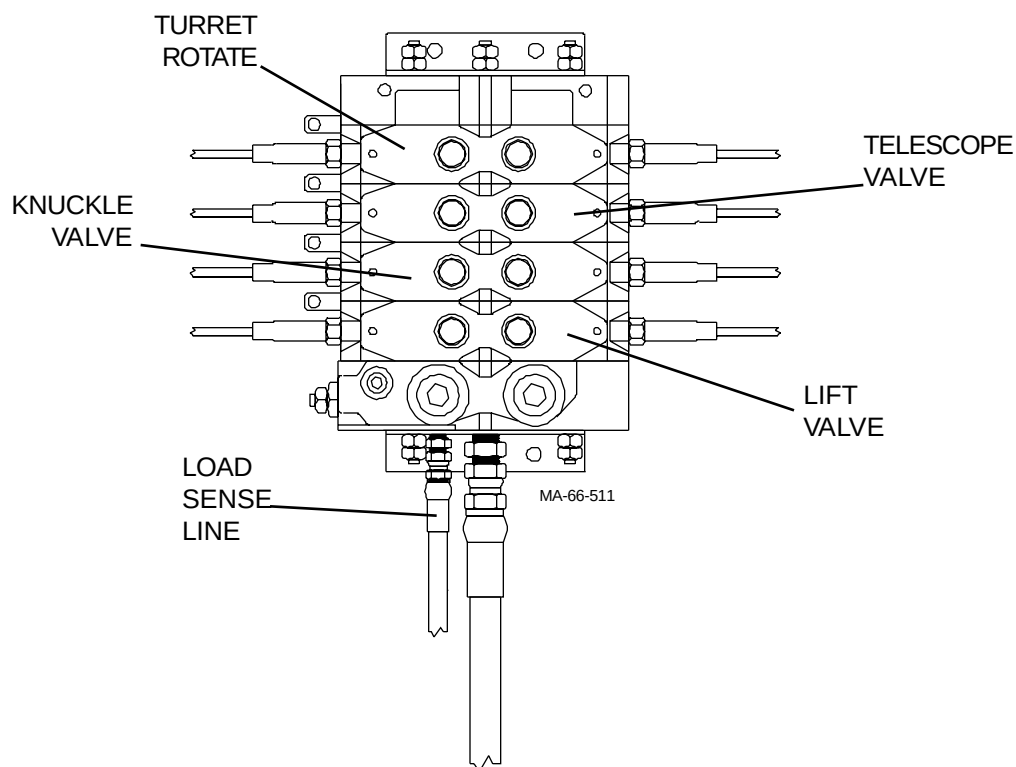
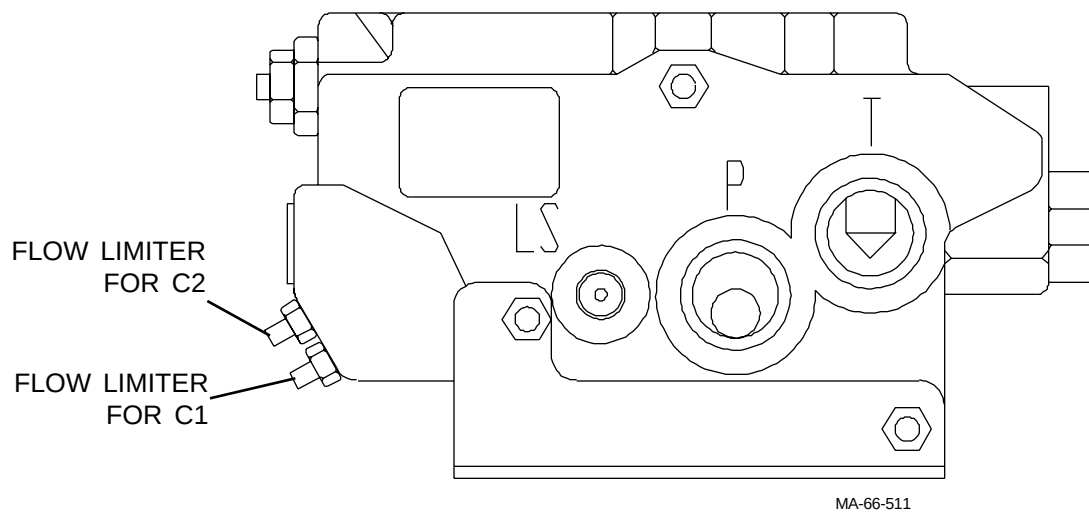


Figure 5-18. Proportional Valve Bank.

VALVE SECTION	C1 PORT	C2 PORT
LIFT	DOWN	UP
KNUCKLE	DOWN	UP
TELESCOPE	RETRACT	EXTEND
TURRET ROTATE	LEFT	RIGHT

MT66-509



MA-66-511

Figure 5-19. Boom Function Speed Adjustment.

MID AND FLY BOOM EXTEND PRESSURE ADJUSTMENTS

- 1) Locate the port labeled "MG" on top of the turret manifold and install a 3000 PSI gauge. Refer to Figure 5-20 for port location.
- 2) Disconnect wire 75B from mid boom out sequence valve. Refer to Figure 5-21 for valve location.
- 3) Start engine, set engine RPM's to mid range (1600 RPM's).
- 4) Depress and hold telescope out toggle switch.
- 5) When the mid boom comes to a stop, while holding the telescope out switch, adjust the mid boom out pressure reducer to 2100 PSI. Refer to Figure 5-21 for location.
- 6) Stop engine and remove gauge and reconnect wire 75B.
- 7) Install a 3000 PSI gauge into the port labeled "FG". Refer to Figure 5-22 for location.
- 8) Start engine, set engine RPM's to mid range (1600 RPM's).
- 9) Depress and hold telescope out toggle switch.
- 10) When the fly boom comes to a stop, while holding the telescope out switch, adjust the fly boom out pressure reducer to 2100 PSI. Refer to Figure 5-23 for location.
- 11) Stop engine and remove gauge.

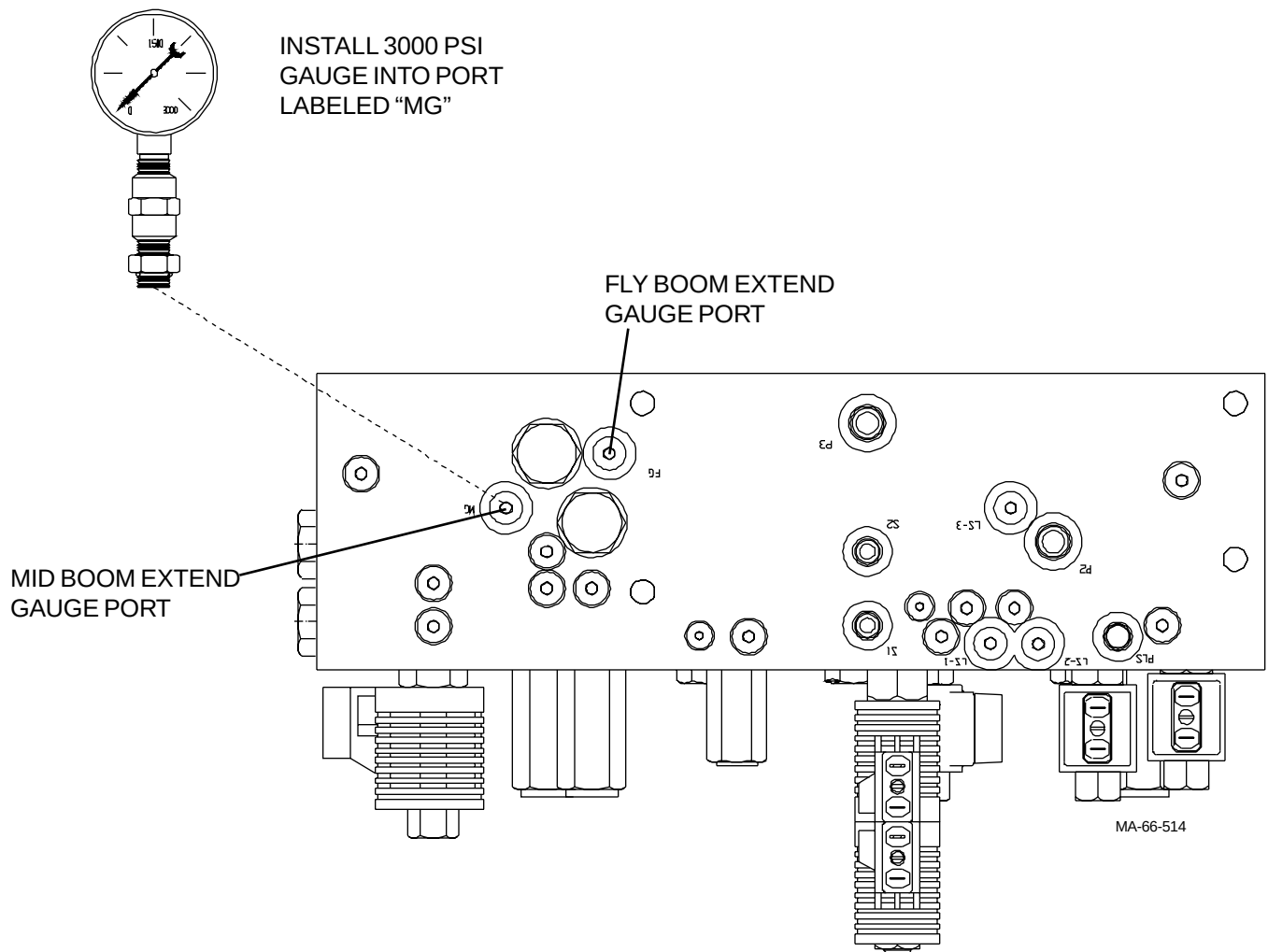


Figure 5-20. Main Manifold. (port "MG")

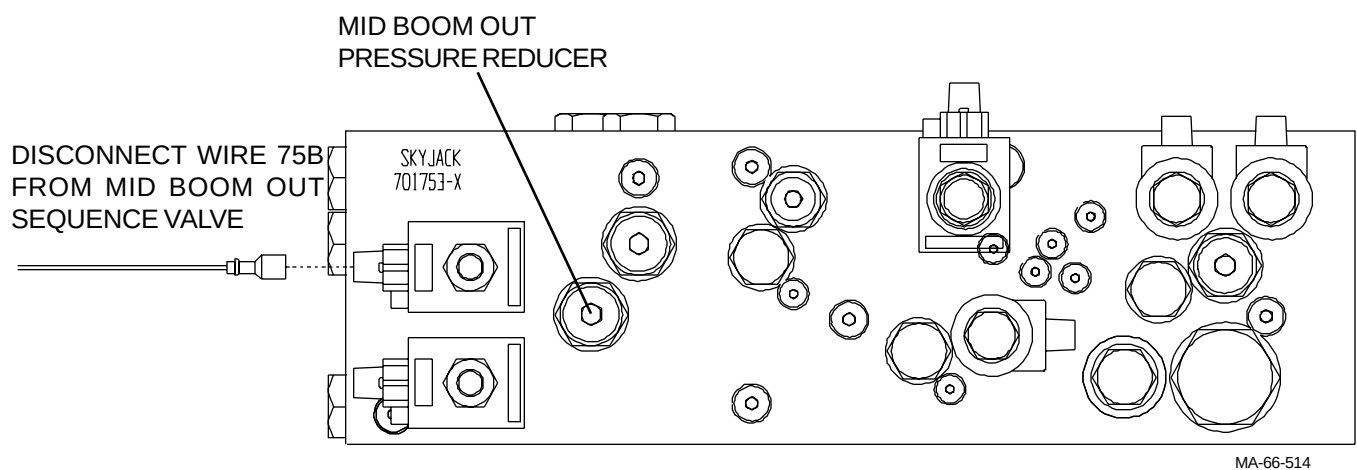
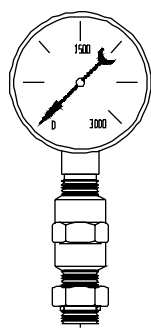


Figure 5-21. Main Manifold. (mid boom out pressure reducer)



INSTALL 3000 PSI
GAUGE INTO PORT
LABELED "FG"

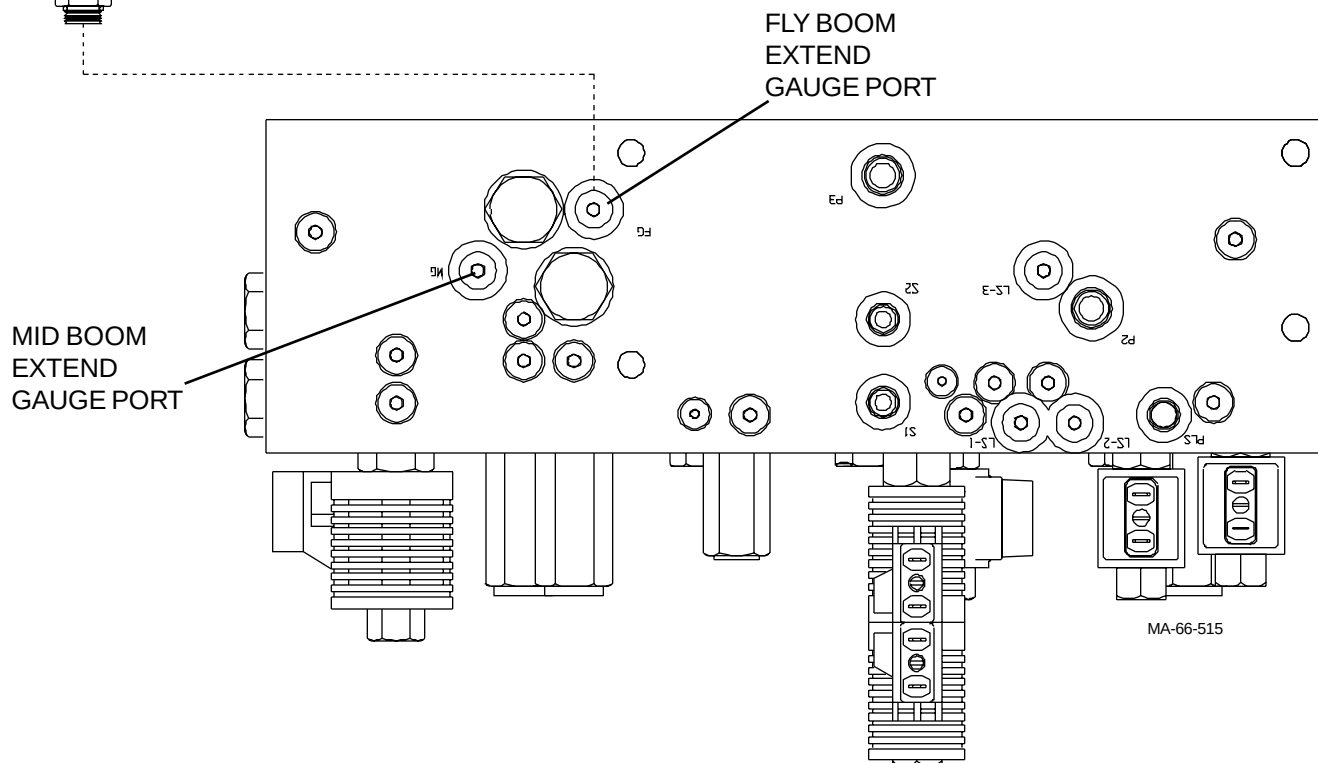


Figure 5-22. Main Manifold. (port "FG")

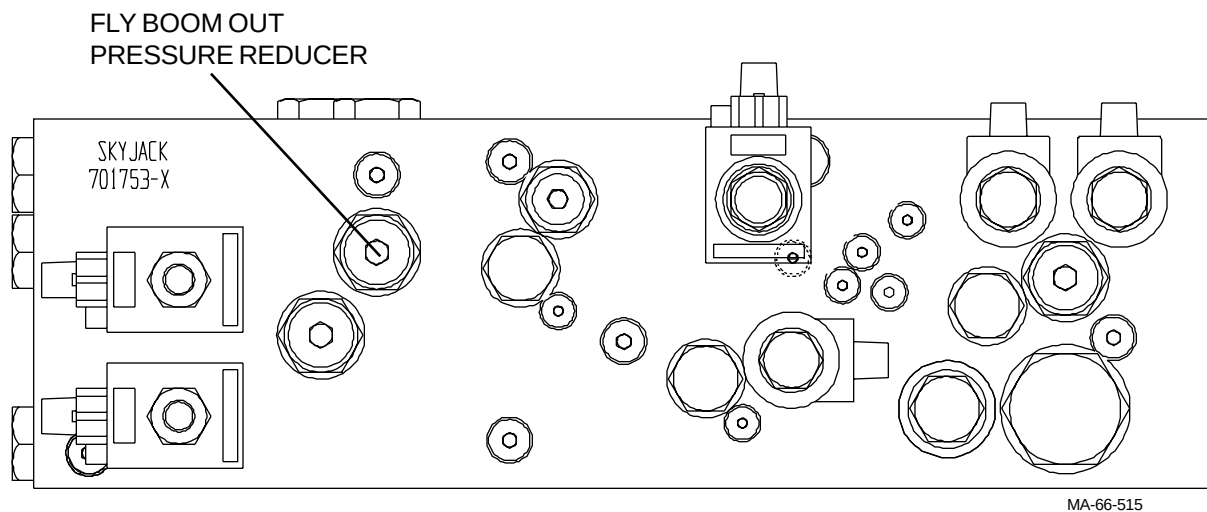


Figure 5-23. Main Manifold. (fly boom out pressure reducer)

LOW DRIVE PRESSURE ADJUSTMENT

- 1) Fully lower and retract boom.
- 2) Tee a 1000 PSI gauge into the port marked Ps on the drive pump. Refer to Figure 5-24.
- 3) Start engine, and check gauge reading with boom fully lowered and retracted. It should read 350 PSI.
- 4) Extend telescope 6 feet. Adjust Hi/Low relief valve to 225 PSI. Refer to Figure 5-25.
- 5) Remove gauge and test drive. With boom fully lowered and retracted high drive will be available. With the boom above horizontal or extended, only low drive will be available.

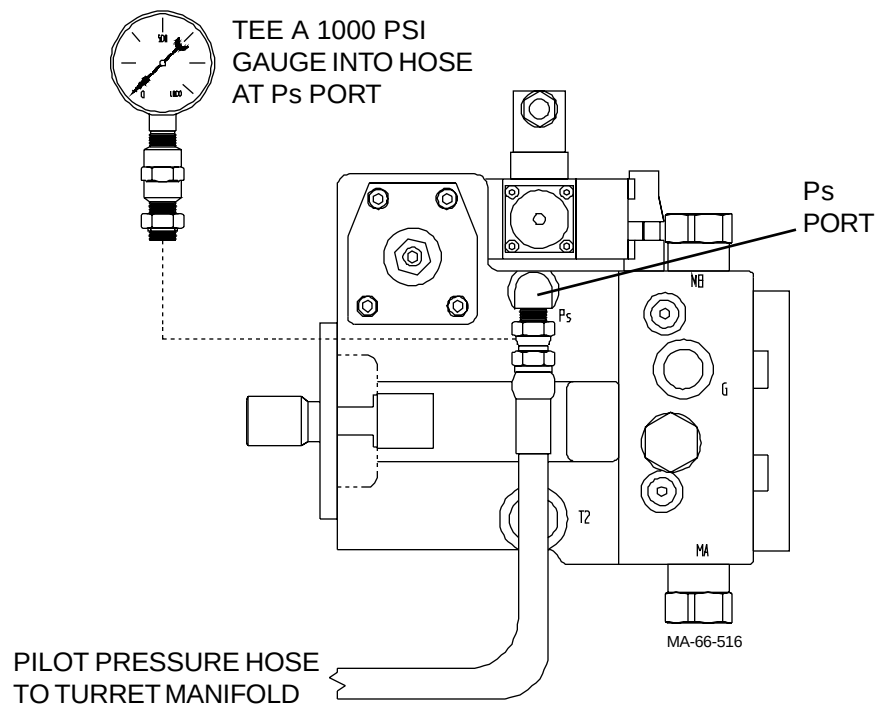


Figure 5-24. Drive Pump.

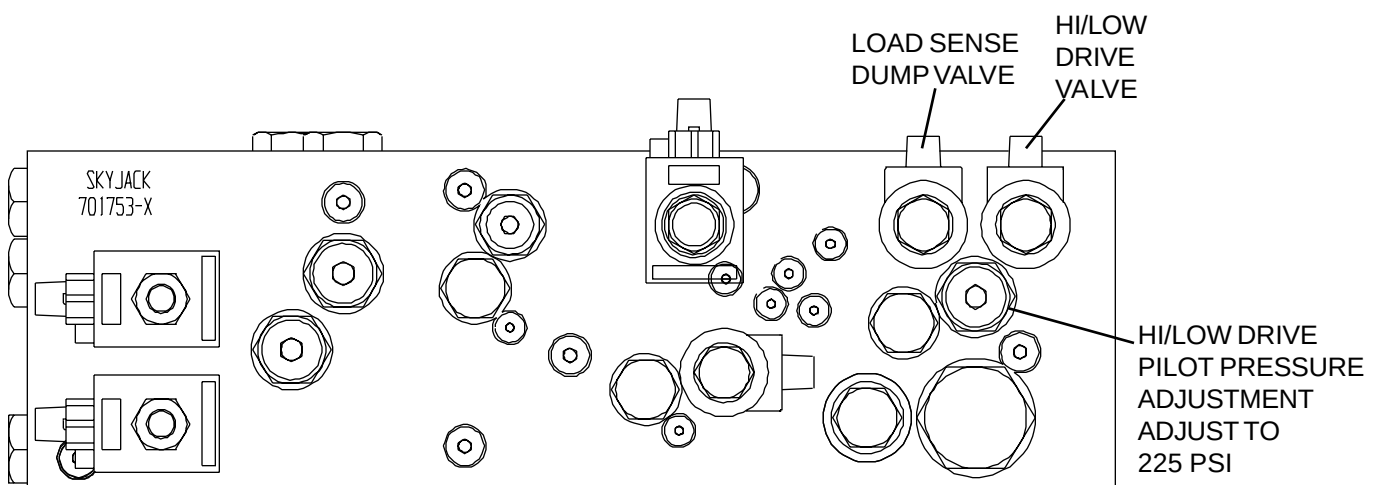


Figure 5-25. Hi/Low Drive Pressure Adjustment.

BRAKE ADJUSTMENT PROCEDURE

Hydraulic

1. Block wheels to prevent machine from rolling.
2. Locate brake system pressure reducer. Refer to Figure 5-26 for location
3. Remove cap from pressure reducer and turn adjuster **GENTLY** clockwise until it bottoms out.



Valve damage will occur if tightened too much!

4. Pull out brake release override (red knob). Refer to Figure 5-26 for location.
5. Locate brake system relief valve. Refer to Figure 5-26. for location.
6. Pump brake release hand pump. See Figure 5-26. Adjust releif valve to 700 PSI on gauge.
7. Push brake release override valve in.
8. Start engine from platform controls and extend boom slightly to achive low speed drive.
9. Drive machine forward or reverse and observe pressure gauge. should read 600 - 650 PSI.
10. Stop machine and adjust pressure reducing valve 1/4 turn at a time until 600 - 650 pressure reading is achived. Turn clockwise to increase or counterclockwise to decrease.

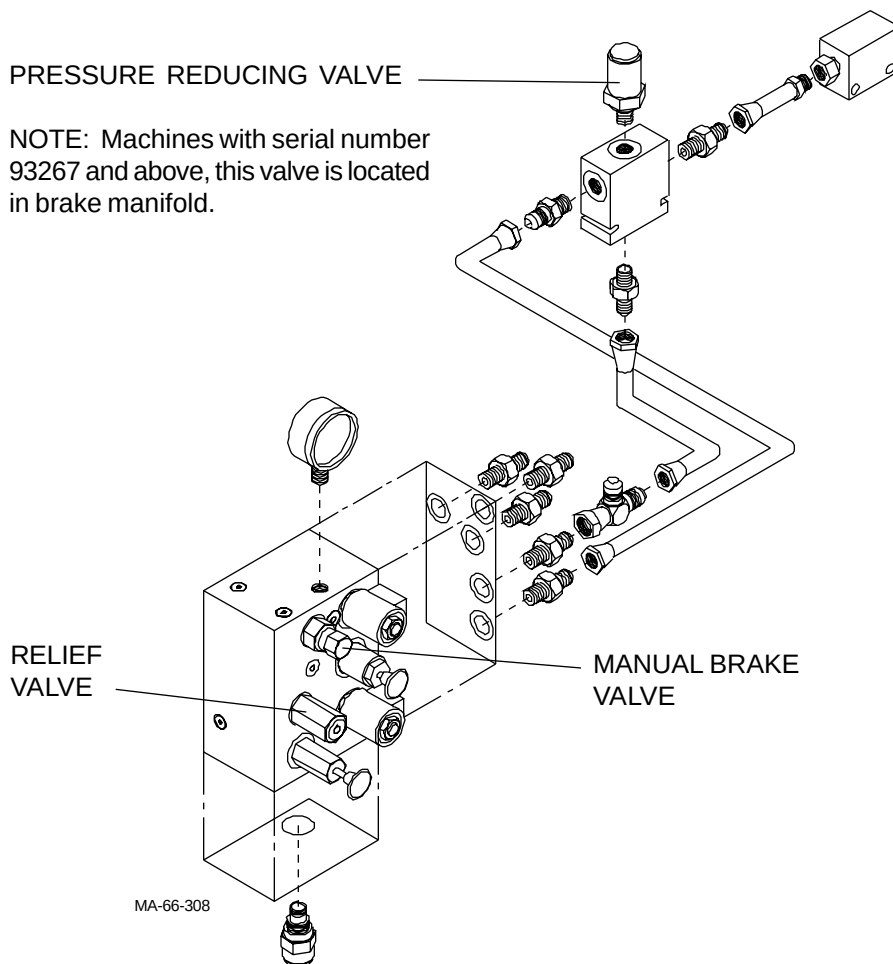


Figure 5-26. Brake Manifold.

BRAKE ADJUSTMENT PROCEDURES

Mechanical

Checking the adjustment of each brake on the axle requires the following procedure:

NOTE - For machines with the 4 WD option this procedure must be followed for both axles.

1. Chock the wheels to prevent the work platform from rolling when the brake is released.
2. Remove the Center Plug (17mm allen head) (Item #1) from each brake cover.
3. Starting with the left brake, insert the shaft of the Dial Indicator (Item #2, Skyjack part #707704) through the hole in the brake cover and carefully tighten the gauge holder (clockwise) until no threads are exposed.
4. Rotate the dial on the Dial Indicator to "0".
5. Locate the Parking Brake Release Procedure (refer to Section 2, Page 5). Follow the procedure to release the parking brakes.
6. Read the Dial Indicator setting. The proper setting range is 0.080" (1.8mm) to 0.085" (2.2mm). If the setting is within this range, pull out the Brake Override Valve Plunger to engage the brakes, then perform the same adjusting check on the right brake. Remove the Dial Indicator and reinstall Center Plug.

NOTE: If setting on either brake is not within the specified range, proceed to step 7.

7. Remove the Dial Indicator. Pull out the Brake Override Valve Plunger to engage the brakes. With a M19 socket and wrench, adjust the Actuator Shaft (Item #3) by tightening (clockwise) the Actuator Shaft Nut (Item #4) to reach a lower setting or loosening (counterclockwise) the Actuator Shaft Nut (Item #4) to reach a higher setting.
8. Repeat steps 3, 4, 5 and 6.
9. If setting is still not within the specified range, repeat steps 7 and 8 until setting is within specified range.

NOTE: The brake will automatically return to normal operation when a drive function is selected.

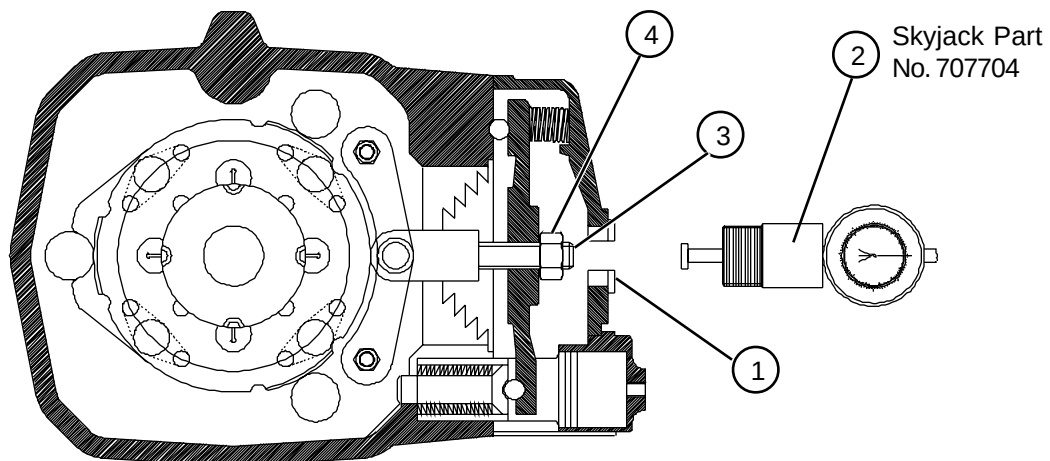


Figure 5-27. Cross Section of Brake Assembly.

MECHANICAL ADJUSTMENTS

Boom Wear Pad Clearances

1. Mid Boom base side wear pads = 0" Clearance.
2. Mid Boom base top and bottom wear pads = 0.0625" (1.5mm) - 0.125 (3mm).
3. Fly Boom base side wear pads = 0.0625" (1.5mm) - 0.125 (3mm).
4. Fly Boom base top and bottom wear pads = 0.0625" (1.5mm) - 0.125 (3mm).
5. All outer wear pads and plug style wear pads = Center boom sections and adjust wear pads to just make contact with boom.

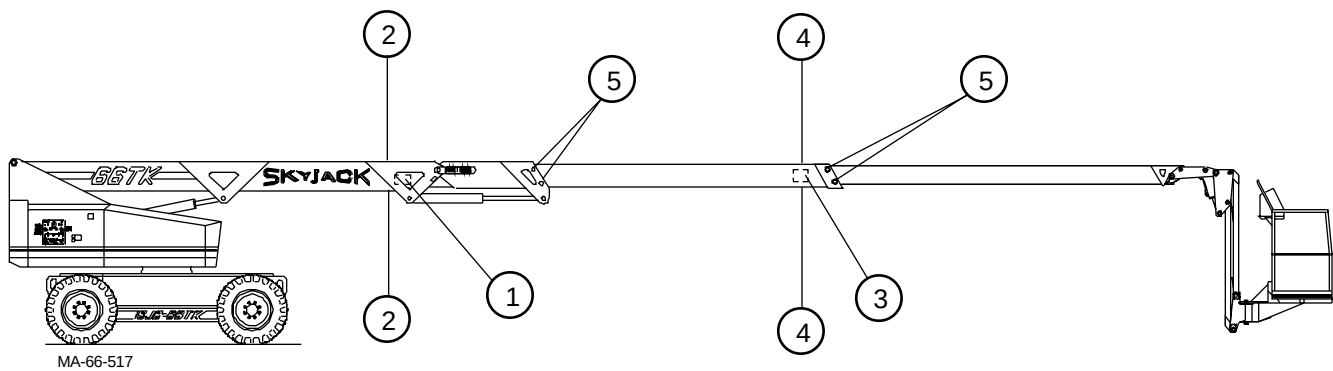
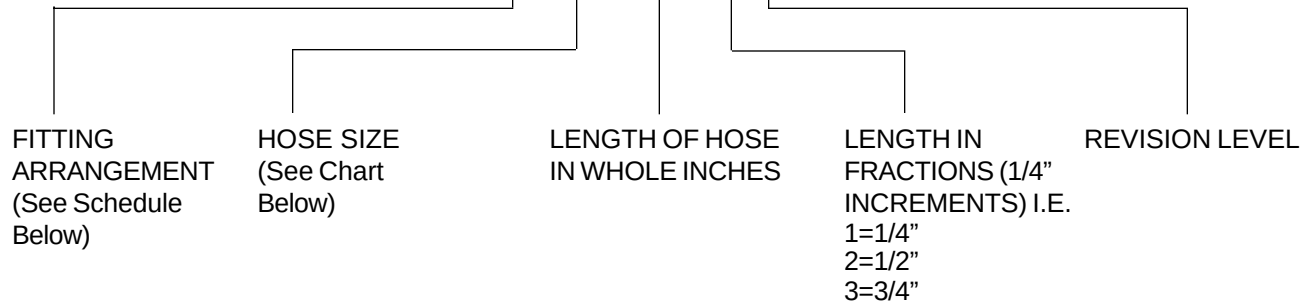


Figure 5-28. Boom Wear Pad Locations.

STANDARD HOSE NUMBERING SYSTEM

H1104 0081 2-0



Using the number above as an example (H1104 0081 2 0). This hose requires a 37° JIC, female swivel fitting on one end. A medium length 90° JIC, female swivel fitting for the other end. The Hose must meet or exceed S.A.E. 100R13 hose specification, and be a total of 81-1/2" long. NOTE: Hose ends and hose must be from same manufacturer per S.A.E. J1273 Nov. '91, Sections 3.10 and 4.2. Hose ends and hose must be of the same size i.e. #4 size fittings must be used with #4 size hose.

HOSE SIZE CHART

SIZE	03	04	06	08	10	12	16	20	24	32	40	48	56	64
I.D.	3/16"	1/4"	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"

FITTING ARRANGEMENT SCHEDULE

HOSE PREFIX	HOSE END FITTING	HOSE END FITTING	S.A.E. HOSE SPECIFICATION
H1	FEMALE, 37° JIC, SWIVEL	FEMALE, 37° JIC, SWIVEL	100R1
H2	FEMALE, 37° JIC, SWIVEL	FEMALE, 37° JIC, SWIVEL	100R13
H3	FEMALE, 37° JIC, SWIVEL	45°, FEMALE, 37° JIC, SWIVEL	100R1
H4	FEMALE, 37° JIC, SWIVEL	45°, FEMALE, 37° JIC, SWIVEL	100R13
H5	FEMALE, 37° JIC, SWIVEL	LONG 90°, FEMALE, 37° JIC, SWIVEL	100R1
H6	FEMALE, 37° JIC, SWIVEL	SHORT 90°, FEMALE, 37° JIC, SWIVEL	100R1
H7	LONG 90°, FEMALE, 37° JIC, SWIVEL	LONG 90°, FEMALE, 37° JIC, SWIVEL	100R1
H8	FEMALE, 37° JIC, SWIVEL	FEMALE, 37° JIC, SWIVEL	100R4
H9	FEMALE, 37° JIC, SWIVEL	45°, FEMALE, 37° JIC, SWIVEL	100R4
H10	FEMALE, 37° JIC, SWIVEL	MALE PIPE THREAD FITTING	100R1
H11	FEMALE, 37° JIC, SWIVEL	MEDIUM 90°, FEMALE, 37° JIC, SWIVEL	100R13
H12	SHORT 90°, FEMALE, 37° JIC, SWIVEL	SHORT 90°, FEMALE, 37° JIC, SWIVEL	100R1
H13	FEMALE, 37° JIC, SWIVEL	REUSABLE MALE PIPE THREAD FITTING	300 PSI
H14	REUSABLE MALE PIPE THREAD FITTING	NO FITTING	300 PSI
H15	REUSABLE, FEMALE, 37° JIC, SWIVEL	REUSABLE, FEMALE, 37° JIC, SWIVEL	300 PSI
H16	NO FITTING	NO FITTING	100R4
H17	NO FITTING	NO FITTING	300 PSI
H18	REUSABLE, FEMALE, 37° JIC, SWIVEL	NO FITTING	300 PSI
H19	LONG 90°, FEMALE, 37° JIC, SWIVEL	FEMALE, 37° JIC, SWIVEL	100R13
H20	FEMALE, 37° JIC, SWIVEL	SHORT 90°, FEMALE, 37° JIC, SWIVEL	100R4
H21	FEMALE, 37° JIC, SWIVEL	SHORT 90°, FEMALE, 37° JIC, SWIVEL	100R2AT
H22	FEMALE, 37° JIC, SWIVEL	FEMALE, 37° JIC, SWIVEL	100R2AT
H23	FEMALE, 37° JIC, SWIVEL	LONG 90°, FEMALE, 37° JIC, SWIVEL	100R2AT
H24	FEMALE, 37° JIC, SWIVEL	SHORT 90°, FEMALE, 37° JIC, SWIVEL	100R13
H25	FEMALE, 37° JIC, SWIVEL	FEMALE, 37° JIC, SWIVEL	100R4

CABLE CARRIER REPAIR

Removing and Replacing Cable Carrier Links

The Cable Carrier can be repaired link by link. Follow the steps below to remove and replace a link in the Cable Carrier:

NOTE: Insure step of lids (Top and Bottom) point to the male end of the side covers.

1. Use a screwdriver to pry the upper and lower lids from the Cable Carrier.
2. The side covers can be pryed loose by using a screwdriver.
3. New lids and side covers may be installed by snapping links together.

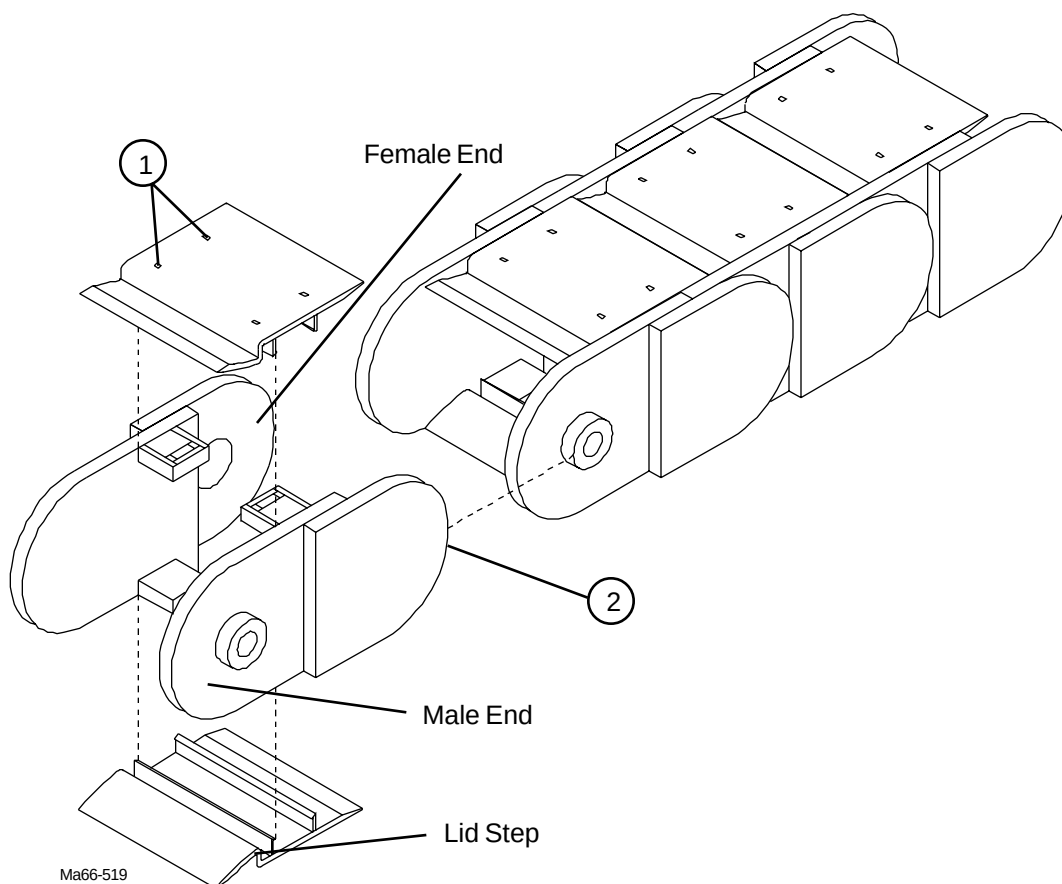


Figure 5-29. Cable Carrier.

SECTION 6 PARTS LIST

GENERAL

The information contained in this section is designed to aid the user in locating and identifying replacement parts. Component parts of various assemblies and sub-assemblies comprising the work platform are illustrated and accompanied by a descriptive parts list. Exploded drawings are used to show relative location of component parts in disassembly order. If a part cannot be found in this section, order by work platform model number and serial number, giving a complete description of the part.

PARTS ORDERING INFORMATION

When ordering replacement parts, the complete part number and description should be used to ensure proper identification and delivery of the desired item. This complete identification should also be used when requesting equipment information.

METHOD OF LISTING

Parts are listed in order according to the reference number shown in the illustration, followed by a full description based upon the "NOUN FIRST" method. That is, the noun name of the part is listed first, then the modifying description information which serves to specifically identify the item. For example: PIN, Clevis. Assemblies or groups are shown at the beginning of a parts list and are identified with the letter references A, B, C, etc. Individual parts in these lists have corresponding letters after their description to identify which assembly or group it is used in. Individual parts without identifying letters

are used in all the assemblies or group shown at the beginning of the parts list. Descriptions preceded with an (•) indicates a serviceable component or attaching hardware for the higher level assembly.

QUANTITIES (Units per Assy.)

The quantities of each part that are required to complete the assembly. If quantity is (AR), it is understood that the quantity may vary when machine is equipped with certain options. Order quantity as needed.

HARDWARE

Standard screws, washers, nuts, etc. are not identified by a reference number. These parts are known as COMMON HARDWARE items and appear indented under the major items with which they are used. They should be ordered separately as listed, since they are not component parts of the pieces they attach to.

HOW TO ORDER REPAIR PARTS

1. Address all orders to your local SKYJACK dealer.
2. Specify model and serial number of the work platform (found on the serial number plate).
3. List the quantity needed.
4. List the length needed (if bulk item).
5. List the part number and description as shown in this manual for each item.
6. Show billing and shipping address and name of individual if possible.
7. Suggest best routing.

CUSTOMER _____

DEALER _____

MODEL NUMBER _____

SERIAL NUMBER _____

DATE PURCHASED _____

USE ONLY SKYJACK AUTHORIZED REPLACEMENT PARTS!

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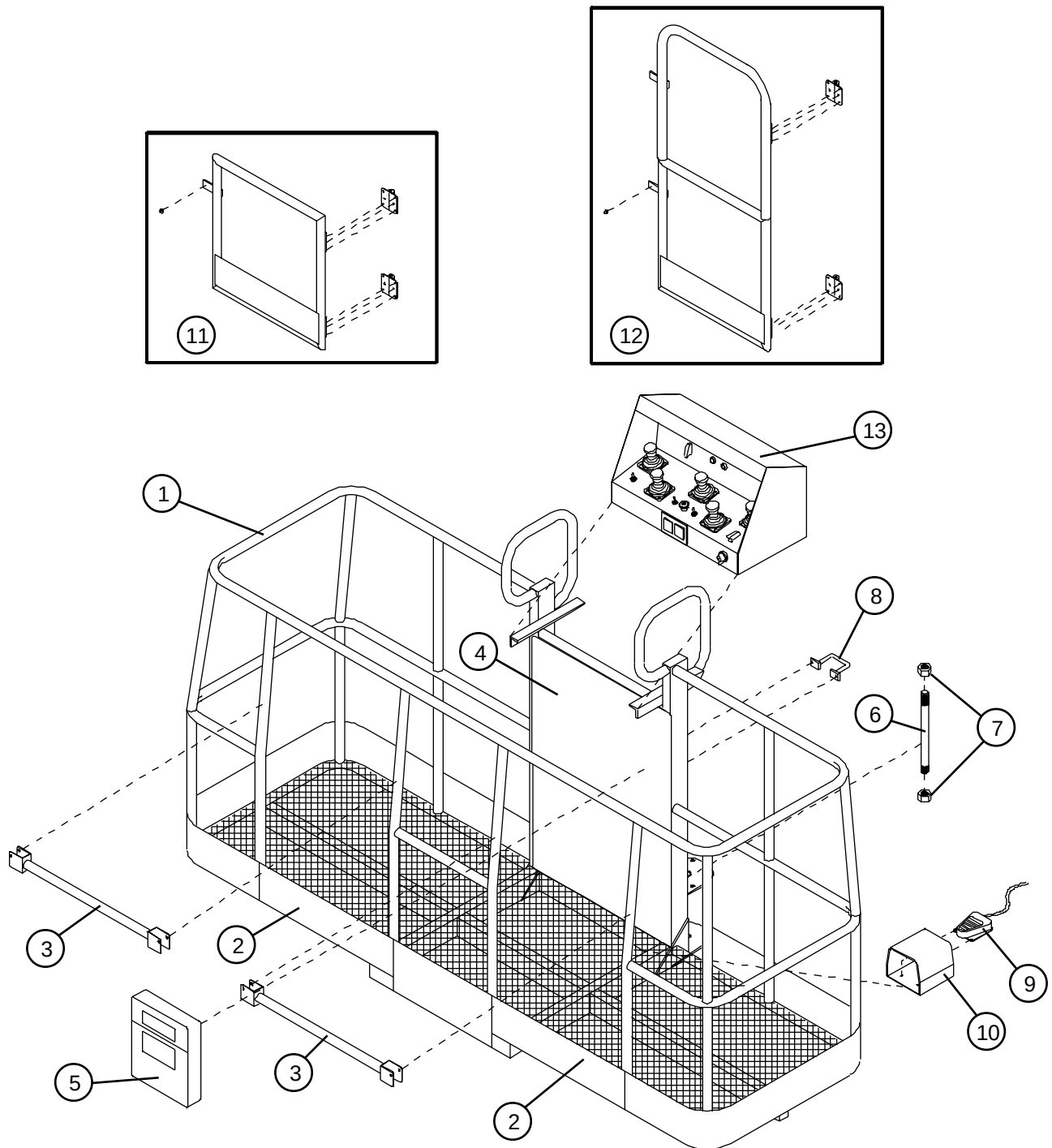
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SJB-66TK, Serial Number 93198 and above

FIGURE 6-1. PLATFORM ASSEMBLY (30" x 96")

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
A	702946	PLATFORM ASSEMBLY, Standard	-
B	703236	PLATFORM ASSEMBLY, With half gate option	-
C	703232	PLATFORM ASSEMBLY, With full gate option	-
D	703221	PLATFORM ASSEMBLY, European, Standard	-
E	\$	PLATFORM ASSEMBLY, European, half gate option	-
F	\$	PLATFORM ASSEMBLY, European, full gate option	-
1	706654	• WELDMENT, Platform, A	1
	706799	• WELDMENT, Platform, B	1
	706800	• WELDMENT, Platform, C	1
	706657	• WELDMENT, Platform, D	1
	\$	• WELDMENT, Platform, E	1
	\$	• WELDMENT, Platform, F	1
	103909	•• BOLT, HHCS 1/2"-13x1-1/2" gr 5	12
	103470	•• WASHER, Lock 1/2"	12
	704329	•• BOLT, HHCS 3/8"-16x6-1/2" gr 5	1
	104606	•• NUT, Lock 3/8"-16	2
2	706142	• KICK PLATE, A	2
	706603	•• BOLT, BHCS 1/4"-20x1/2" stainless steel	8
	700583	•• LOCKNUT, 1/4"x20	8
3	708028	• RAIL ASSEMBLY, Entry, A, D (Serial Number 93249 and Above.)	2
		• RAIL ASSEMBLY, Entry, A, D (Serial Number 93248 and Below, replace entire assembly with P/N 708028.)	2
4	706844	• PLATE, Label	1
	103632	•• SCREW, Self tapping 1/4"-14x3/4"	6
5	706664	•• GROMMET, 7/16" I.D. x 1/16 mat'l	1
	117293	• MANUAL BOX, Plastic	1
	706857	•• BOLT, Mach. Head 1/4"-20x3/4"	4
	103995	•• WASHER, Flat 1/4"	4
	700583	•• LOCKNUT, 1/4"x20	4
6	704603	• CENTER BOLT, Actuator (Plated)	1
7	700570	•• NUT, Hex 1"x14	2
8	706457	• WELDMENT, Hose ring	1
	103857	•• BOLT, HHCS 1/4"-20x1" gr 5	2
	104000	•• WASHER, Lock 1/4"	2
9	700520	• FOOT SWITCH ASSEMBLY	1
	700187	•• SWITCH, Foot	1
	103567	•• CONNECTOR ASSEMBLY, 4 Pin male	1
10	103569	•• CONNECTOR ASSEMBLY, 4 Pin male	1
	700188	• SWITCH COVER, Foot	1
	103857	•• BOLT, HHCS 1/4"-20x1" gr 5	2
11	700598	•• WASHER, Fender 1 1/4" O.D. - 9/32" I.D.	2
	(Ref.)	GATE ASSEMBLY, Half gate (Option), B, E	1
	706801	• WELDMENT, RH gate	1
	706802	• WELDMENT, LH gate	1
	710262	• PLATE, Latch mounting	1
	710274	• LATCH, Finger bolt	1
	701027	• BUMPER, Rubber	2
	117277	• HINGE, Spring	4
12	112495	• BOLT, HHCS 1/4"-20x3/8" gr 5	24
	104000	• WASHER, Lock 1/4"	24
	(Ref.)	GATE ASSEMBLY, Full gate (Option), C, F	1
	706803	• WELDMENT, Full gate	1
	710262	• PLATE, Latch mounting	1
	710274	• LATCH, Finger bolt	1
	701027	• BUMPER, Rubber	2
	117277	• HINGE, Spring	2
	112495	• BOLT, HHCS 1/4"-20x3/8" gr 5	12
	104000	• WASHER, Lock 1/4"	12
13	(Ref.)	CONSOLE ASSEMBLY, Platform control (For components refer to Figure 6-4) \$ - Consult Factory	1

FIGURE 6-2. PLATFORM ASSEMBLY (30" x 72")

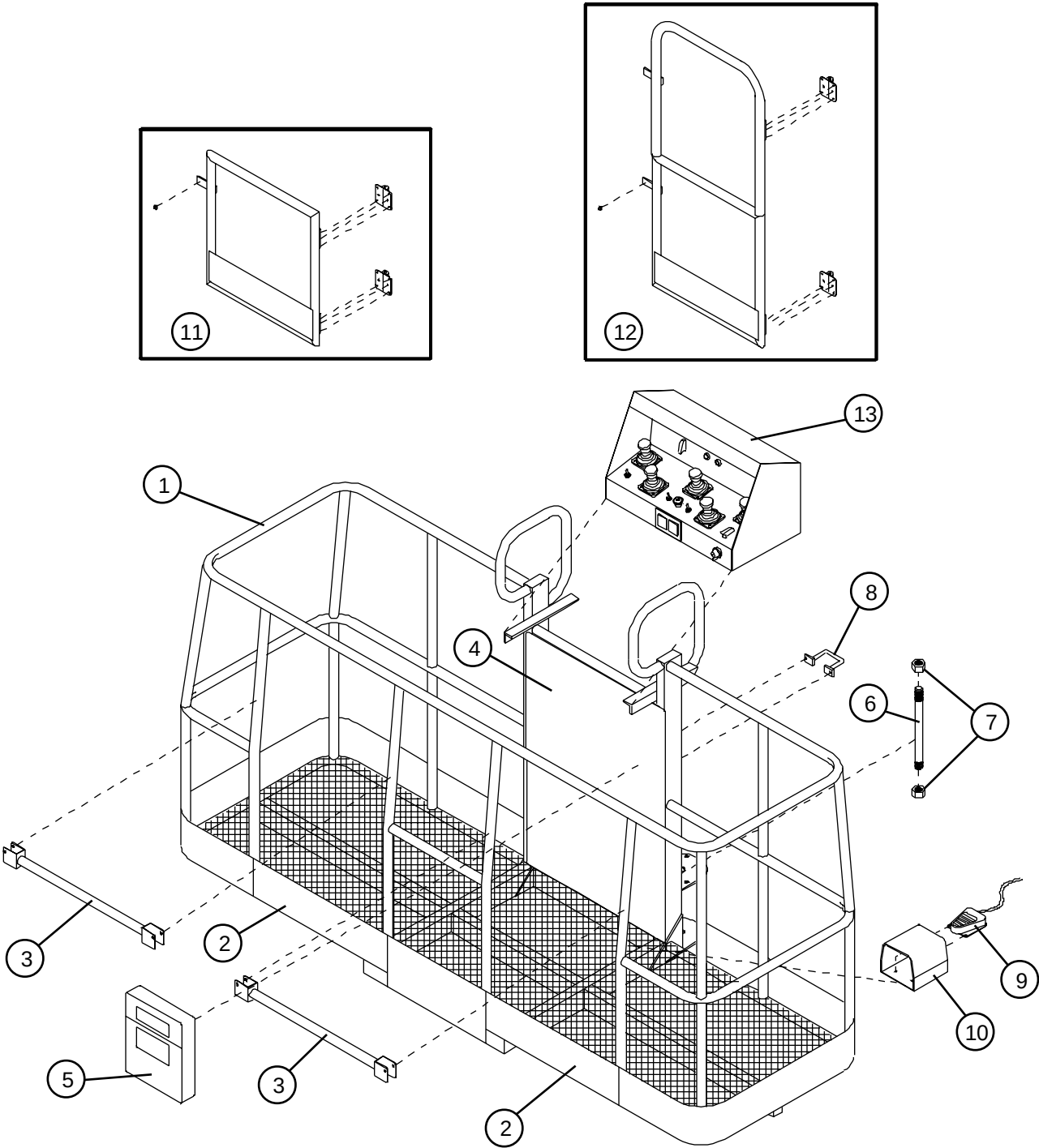


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FIGURE 6-2. PLATFORM ASSEMBLY (30" x 72")

Index No.	Skyjack Part No.	Description							Units per Assy.
		1	2	3	4	5	6	7	
A	\$	PLATFORM ASSEMBLY, Standard							-
B	\$	PLATFORM ASSEMBLY, With half gate option							-
C	\$	PLATFORM ASSEMBLY, With full gate option							-
D	\$	PLATFORM ASSEMBLY, European, Standard							-
E	707806	PLATFORM ASSEMBLY, European, half gate option							-
F	\$	PLATFORM ASSEMBLY, European, full gate option							-
1	\$	• WELDMENT, Platform, A							1
	\$	• WELDMENT, Platform, B							1
	\$	• WELDMENT, Platform, C							1
	\$	• WELDMENT, Platform, D							1
	707844	• WELDMENT, Platform, E							1
	\$	• WELDMENT, Platform, F							1
	103909	•• BOLT, HHCS 1/2"-13x1-1/2" gr 5							12
	103470	•• WASHER, Lock 1/2"							12
	704329	•• BOLT, HHCS 3/8"-16x6-1/2" gr 5							1
	104606	•• NUT, Lock 3/8"-16							2
	706142	• KICK PLATE, A							2
	706603	•• BOLT, BHCS 1/4"-20x1/2" stainless steel							8
	700583	•• LOCKNUT, 1/4"x20							8
3	708028	• RAIL ASSEMBLY, Entry, A, D (Serial Number 93249 and Above.)							2
		• RAIL ASSEMBLY, Entry, A, D (Serial Number 93248 and Below, replace entire assembly with P/N 708028.)							2
4	706844	• PLATE, Label							1
	103632	•• SCREW, Self tapping 1/4"-14x3/4"							6
5	706664	•• GROMMET, 7/16" I.D. x 1/16 mat'l							1
	117293	• MANUAL BOX, Plastic							1
	706857	•• BOLT, Mach. Head 1/4"-20x3/4"							4
	103995	•• WASHER, Flat 1/4"							4
	700583	•• LOCKNUT, 1/4"x20							4
6	704603	• CENTER BOLT, Actuator (Plated)							1
7	700570	•• NUT, Hex 1"x14							2
8	706457	• WELDMENT, Hose ring							1
	103857	•• BOLT, HHCS 1/4"-20x1" gr 5							2
	104000	•• WASHER, Lock 1/4"							2
9	700520	• FOOT SWITCH ASSEMBLY							1
	700187	•• SWITCH, Foot							1
	103567	•• CONNECTOR ASSEMBLY, 4 Pin male							1
10	103569	•• CONNECTOR ASSEMBLY, 4 Pin male							1
	700188	• SWITCH COVER, Foot							1
	103857	•• BOLT, HHCS 1/4"-20x1" gr 5							2
11	700598	•• WASHER, Fender 1-1/4" O.D. - 9/32" I.D.							2
	(Ref.)	GATE ASSEMBLY, Half gate (Option), B, E							1
	706801	• WELDMENT, RH gate							1
12	706802	• WELDMENT, LH gate							1
	710262	• PLATE, Latch mounting							1
	710274	• LATCH, Finger bolt							1
	701027	• BUMPER, Rubber							2
	117277	• HINGE, Spring							4
	112495	• BOLT, HHCS 1/4"-20x3/8" gr 5							24
	104000	• WASHER, Lock 1/4"							24
	(Ref.)	GATE ASSEMBLY, Full gate (Option), C, F							1
	706803	• WELDMENT, Full gate							1
	710262	• PLATE, Latch mounting							1
13	710274	• LATCH, Finger bolt							1
	701027	• BUMPER, Rubber							2
	117277	• HINGE, Spring							2
	112495	• BOLT, HHCS 1/4"-20x3/8" gr 5							12
	104000	• WASHER, Lock 1/4"							12
	(Ref.)	CONSOLE ASSEMBLY, Platform control (For components refer to Figure 6-4)							1
		\$ - Consult Factory							

FIGURE 6-3. PLATFORM ASSEMBLY (30" x 120")

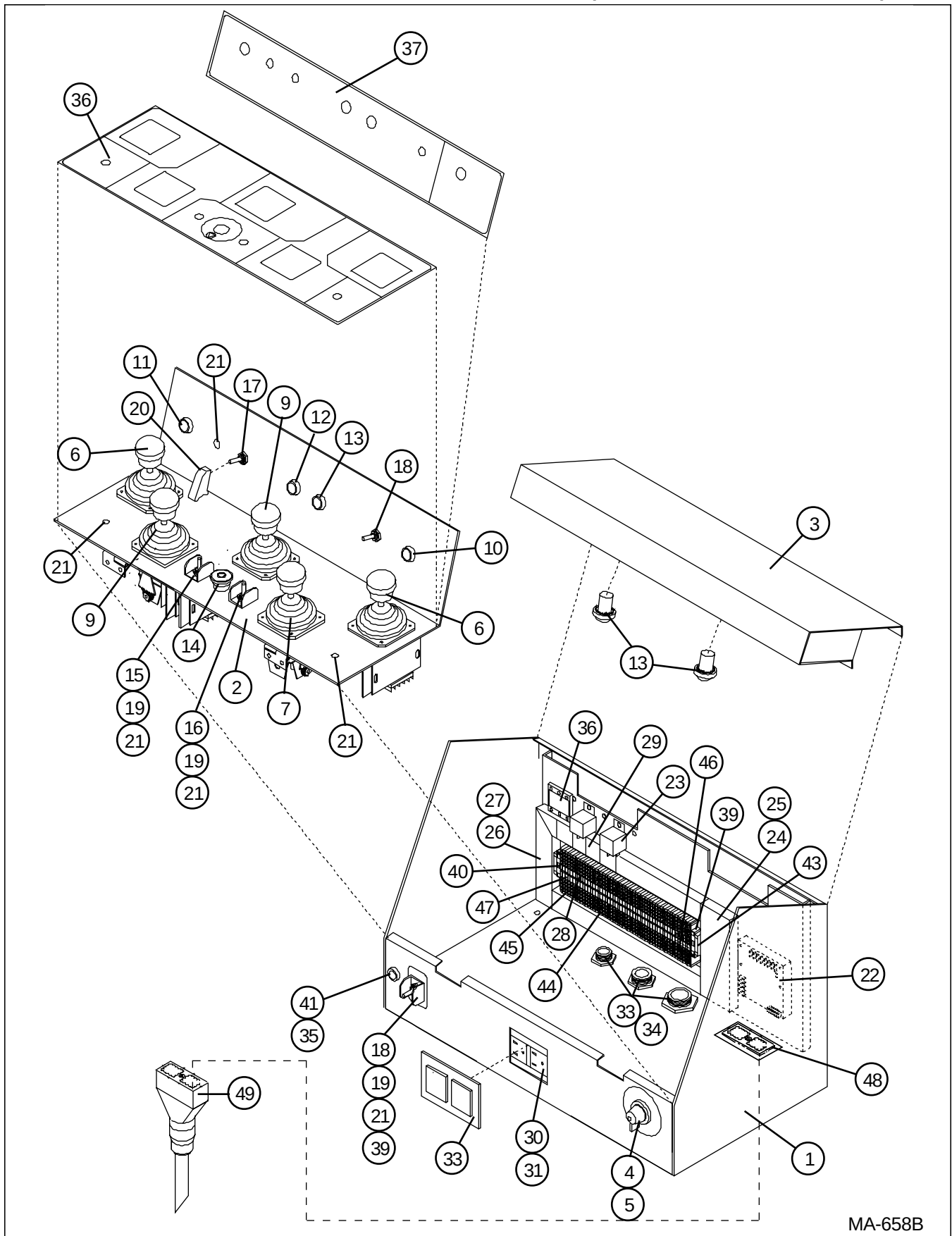


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FIGURE 6-3. PLATFORM ASSEMBLY (30" x 120")

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
A	707659	PLATFORM ASSEMBLY, Standard	-
B	\$	PLATFORM ASSEMBLY, With half gate option	-
C	707668	PLATFORM ASSEMBLY, With full gate option	-
D	\$	PLATFORM ASSEMBLY, European, Standard	-
E	\$	PLATFORM ASSEMBLY, European, half gate option	-
F	\$	PLATFORM ASSEMBLY, European, full gate option	-
1	703482	• WELDMENT, Platform, A	1
	\$	• WELDMENT, Platform, B	1
	707667	• WELDMENT, Platform, C	1
	\$	• WELDMENT, Platform, D	1
	\$	• WELDMENT, Platform, E	1
	\$	• WELDMENT, Platform, F	1
	103909	•• BOLT, HHCS 1/2"-13x1-1/2" gr 5	12
	103470	•• WASHER, Lock 1/2"	12
	704329	•• BOLT, HHCS 3/8"-16x6-1/2" gr 5	1
	104606	•• NUT, Lock 3/8"-16	2
	706142	• KICK PLATE, A	2
	706603	•• BOLT, BHCS 1/4"-20x1/2" stainless steel	8
2	700583	•• LOCKNUT, 1/4"x20	8
	708028	• RAIL ASSEMBLY, Entry, A, D (Serial Number 93249 and Above.) • RAIL ASSEMBLY, Entry, A, D (Serial Number 93248 and Below, replace entire assembly with P/N 708028.)	2 2
4	706844	• PLATE, Label	1
	103632	•• SCREW, Self tapping 1/4"-14x3/4"	6
	706664	•• GROMMET, 7/16" I.D. x 1/16 mat'l	1
5	117293	• MANUAL BOX, Plastic	1
	706857	•• BOLT, Mach. Head 1/4"-20x3/4"	4
	103995	•• WASHER, Flat 1/4"	4
	700583	•• LOCKNUT, 1/4"x20	4
6	704603	• CENTER BOLT, Actuator (Plated)	1
7	700570	•• NUT, Hex 1"x14	2
8	706457	• WELDMENT, Hose ring	1
	103857	•• BOLT, HHCS 1/4"-20x1" gr 5	2
	104000	•• WASHER, Lock 1/4"	2
9	700520	• FOOT SWITCH ASSEMBLY	1
	700187	•• SWITCH, Foot	1
	103567	•• CONNECTOR ASSEMBLY, 4 Pin male	1
10	103569	•• CONNECTOR ASSEMBLY, 4 Pin male	1
	700188	• SWITCH COVER, Foot	1
	103857	•• BOLT, HHCS 1/4"-20x1" gr 5	2
11	700598	•• WASHER, Fender 1-1/4" O.D. - 9/32" I.D.	2
	(Ref.)	GATE ASSEMBLY, Half gate (Option), B, E	1
	706801	• WELDMENT, RH gate	1
12	706802	• WELDMENT, LH gate	1
	710262	• PLATE, Latch mounting	1
	710274	• LATCH, Finger bolt	1
	701027	• BUMPER, Rubber	2
	117277	• HINGE, Spring	4
	112495	• BOLT, HHCS 1/4"-20x3/8" gr 5	24
	104000	• WASHER, Lock 1/4"	24
	(Ref.)	GATE ASSEMBLY, Full gate (Option), C, F	1
	706803	• WELDMENT, Full gate	1
	710262	• PLATE, Latch mounting	1
	710274	• LATCH, Finger bolt	1
	701027	• BUMPER, Rubber	2
13	117277	• HINGE, Spring	2
	112495	• BOLT, HHCS 1/4"-20x3/8" gr 5	12
	104000	• WASHER, Lock 1/4"	12
	(Ref.)	CONSOLE ASSEMBLY, Platform control (For components refer to Figure 6-4) \$ - Consult Factory	1

FIGURE 6-4. PLATFORM CONTROL CONSOLE ASSEMBLY (Serial Number 93267 and Above)



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FIGURE 6-4. PLATFORM CONTROL CONSOLE ASSEMBLY (Serial Number 93267 and Above)

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
A	708716	CONSOLE ASSEMBLY, Platform (dual fuel)(Serial Number 93267 to 93442.)	-
	711329	CONSOLE ASSEMBLY, Platform (dual fuel)(Serial Number 93443 and Above.)	-
B	708718	CONSOLE ASSEMBLY, Platform (gas only)	-
C	708717	CONSOLE ASSEMBLY, Platform (diesel)(Serial Number 93267 to 93442.)	-
	711330	CONSOLE ASSEMBLY, Platform (diesel)(Serial Number 93443 and Above.)	-
D	711331	CONSOLE ASSEMBLY, Platform (Europe)(Serial Number 93443 and Above.)	-
1	711319	• BOTTOM WELDMENT, Control console	1
2	703490	• FACE WELDMENT, Control console	1
	700481	• • BOLT, Mach-hd 1/4-20 x 1/2" lg.	4
	700583	• • NUT, Lock 1/4"-20	4
3	704254	• TOP WELDMENT, Control console	1
	700481	• • BOLT, Mach-hd 1/4"-20 x 1/2" lg.	4
	700583	• • NUT, Lock 1/4"-20	4
4	701931	• SWITCH, Ignition start-anti restart	1
5	701776	• LABEL, Ignition console	1
6	702200	• CONTROLLER, Extension and knuckle, (For components, refer to Figure 6-8.)	2
7	702197	• CONTROLLER, Drive/Steer, (For components, refer to Figure 6-5.)	1
8	702199	• CONTROLLER, Jib/Platform, (For components, refer to Figure 6-7.)	1
9	702198	• CONTROLLER, Main boom/Turret, (For components, refer to Figure 6-6.)	1
10	701935	• LIGHT, Green indicator	1
	703185	• • BULB, 12 Volt #1893	1
11	701934	• LIGHT, Red indicator	2
	703185	• • BULB, 12 Volt #1893	1
12	701936	• DUAL ALARM, 12 Volt	1
	703186	• • BULB, 12 Volt #1815	1
13	701937	• LIGHT, Illuminator	2
	703187	• • BULB, 12 Volt #67	1
14	(Ref.)	• SWITCH ASSEMBLY, Emergency stop	1
	102769	• • HEAD, Emergency stop switch	1
	103281	• • BASE, Contact base 2 N.C.	1
15	701930	• SWITCH, Toggle 2 position maintained, A, D	2
	701930	• SWITCH, Toggle 2 position maintained, C	1
16	701933	• SWITCH, Toggle 3 position maintained, B	1
17	701929	• SWITCH, Toggle 2 position momentary, A, B	1
	701929	• SWITCH, Toggle 2 position momentary, C, D	2
18	702662	• SWITCH, Toggle 3 position momentary, 2 pole, A	1
19	707394	• GUARD, Toggle switch	AR
20	701927	• COVER, Guard red bottom	1
21	702262	• PLUG, Knockout 1/2"	AR
22	704311	• CIRCUIT BOARD, Platform leveling	1
	103955	• • BOLT, Mach-hd #6-32 x 3/4" lg.	4
23	701943	• RELAY, Sealed 12 volt	AR
	103962	• • BOLT, Mach-hd #10-32 x 1/2" lg.	1
	104185	• • WASHER, Lock #10	1

Parts list continued on Page 13.

FIGURE 6-4. PLATFORM CONTROL CONSOLE ASSEMBLY (Serial Number 93267 and Above)

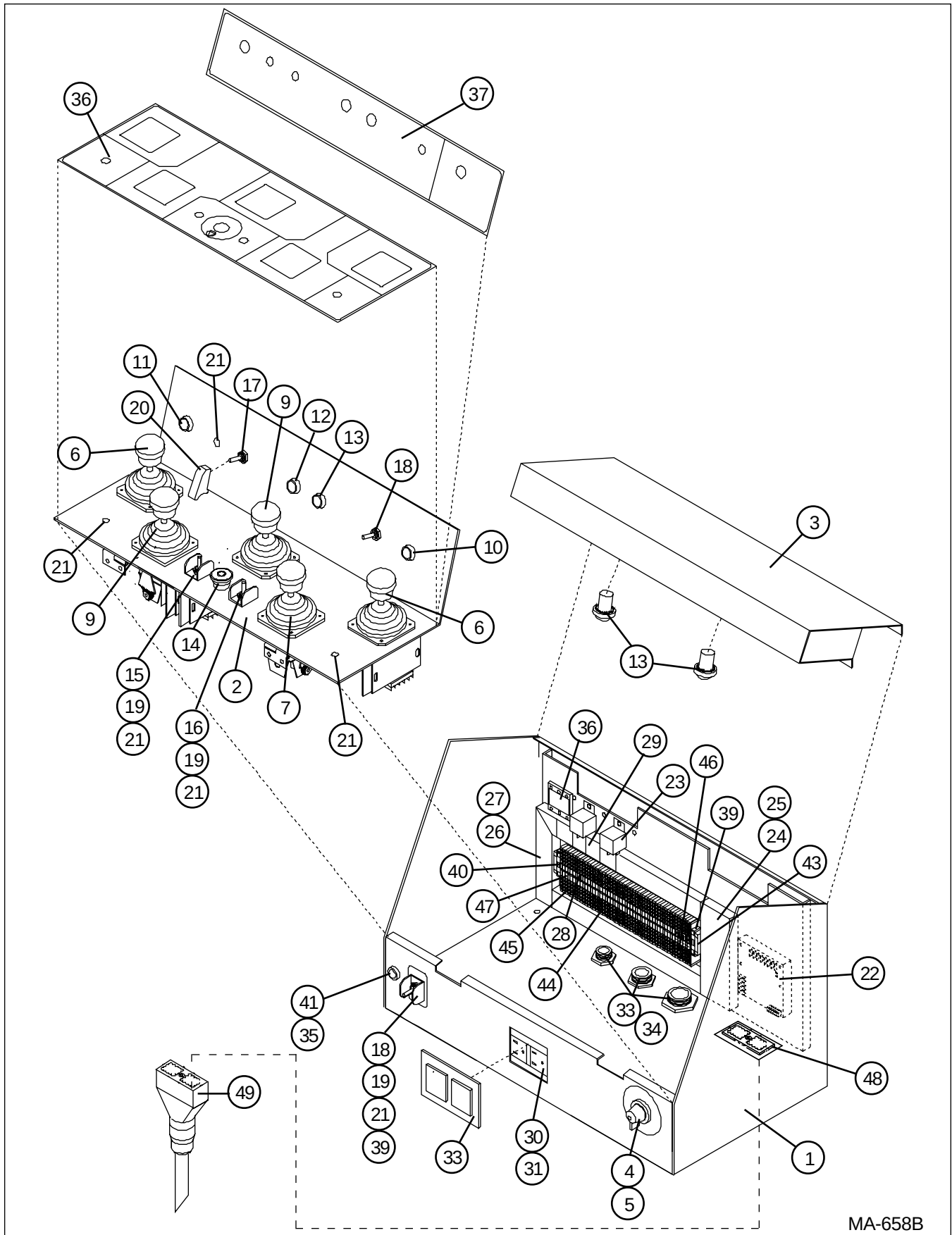
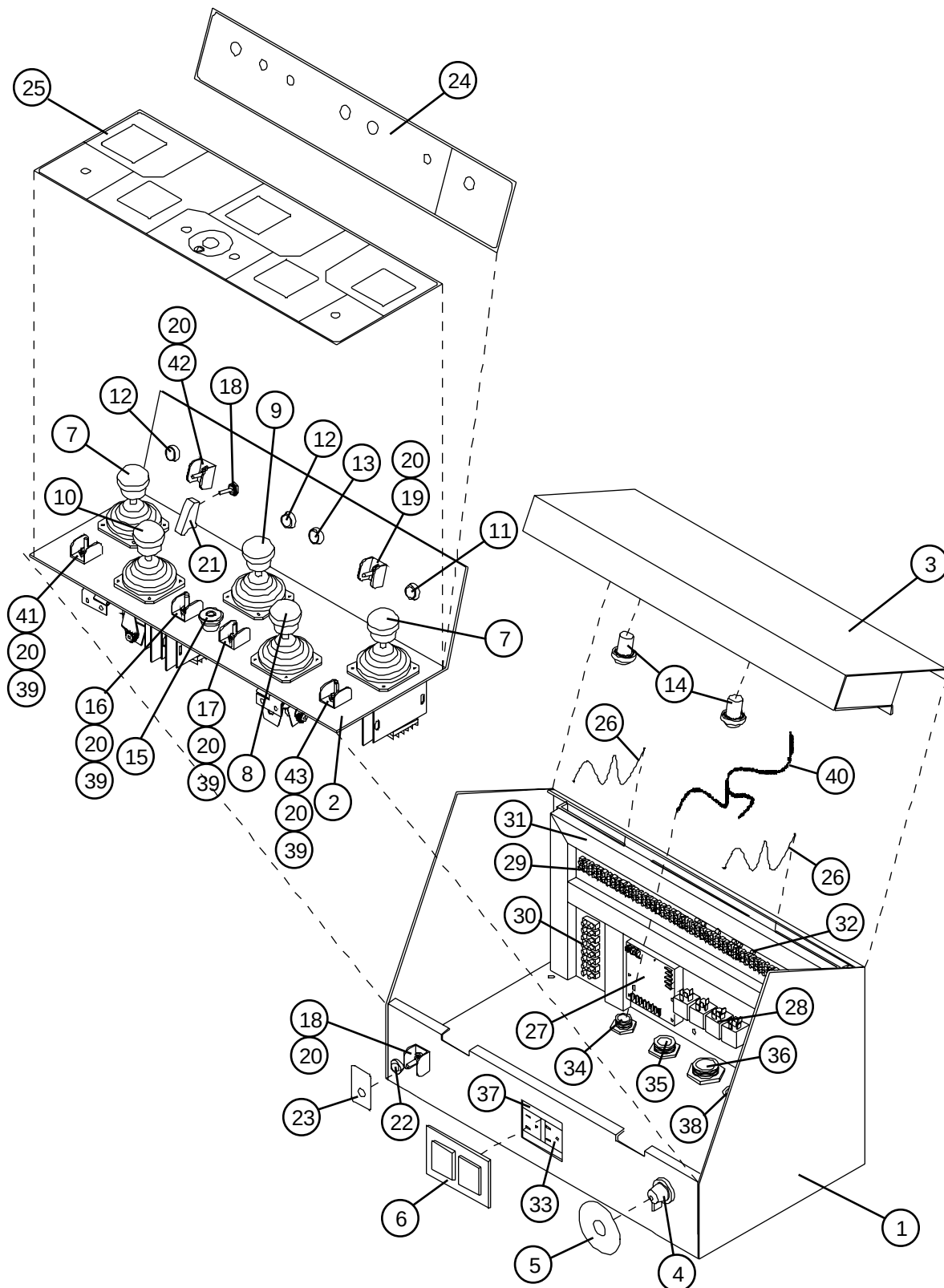


FIGURE 6-4. PLATFORM CONTROL CONSOLE ASSEMBLY (Serial Number 93267 and Above)

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
		Parts list continued from Page 11.	
24	707020	• WIRE DUCT, 2"x2"	7"
25	707188	• COVER, Wire duct 2"	7"
26	707187	• WIRE DUCT, 1"x2"	31"
27	702186	• COVER, Wire duct 1"	31"
28	707148	• ADJ. JUMPER, For terminal block	1
29	703940	• LABEL, Console relays	1
	710195	• OUTLET, Assembly	1
30	109700	• • BOX, 110 Volt GFCI outlet	1
31	109698	• • RECEPTACLE, 110 Volt GFI	1
	103036	• • STRAIN RELIEF, Strait 1/2"	1
	703085	• • TERMINAL 12 guage #10 fork	1
32	109699	• COVER, 110 Volt GFI	1
	703737	• COVER, Receptacle, (Europe)	1
33	710266	• STRAIN RELIEF 1/2" NPT, (Serial Number 93443 and Above.)	3
	710354	• LOCKNUT 1/2" NPT, (Serial Number 93443 and Above.)	3
34	102956	• PLUG, Knockout 7/8"	1
35	701445	• PLUG, Knockout 3/8"	1
36	711468	• RELAY, Solid state drilled	1
37	706357	• LABEL, Console main	1
	703761	• LABEL, Console main (Europe)	1
38	706356	• LABEL, Console top	1
	706958	• LABEL, Console top (Europe)	1
39	703458	• LABEL, Glow plug, C	1
40	707146	• END PLATE	1
41	707147	• END STOP	2
42	703720	• INDICATOR LIGHT, Glow plug, C	1
43	707149	• DIN RAIL, For terminal blocks	17/64"
	103962	• • BOLT, Mach-HD #10-32x1/2"	2
	104185	• • WASHER, Lock #10	1
44	707143	• TERMINAL BLOCK, thru	43"
45	707144	• TERMINAL BLOCK, Ground	3
46	707145	• TERMINAL BLOCK, Diode	6
47	708834	• MARKER, Terminal strip (Serial Number 93267 to 93442.)	1
	711323	• MARKER, Terminal strip, (Serial Number 93443 and Above.)	1
48	711267	• CONNECTOR ASSEMBLY, (Serial Number 93443 and Above.)	1
49	711304	• CONTROL CABLE ASSEMBLY	1
	705255	• • CONTACT SOCKET	40
	707846	• • BOOT, Connector	1
	707874	• • PLUG, Connector, 40 pin	1
	701523	• CABLE TIE MOUNT-SELF ADHESIVE	AR

FIGURE 6-4. PLATFORM CONTROL CONSOLE ASSEMBLY (Serial Number 93266 and Below)

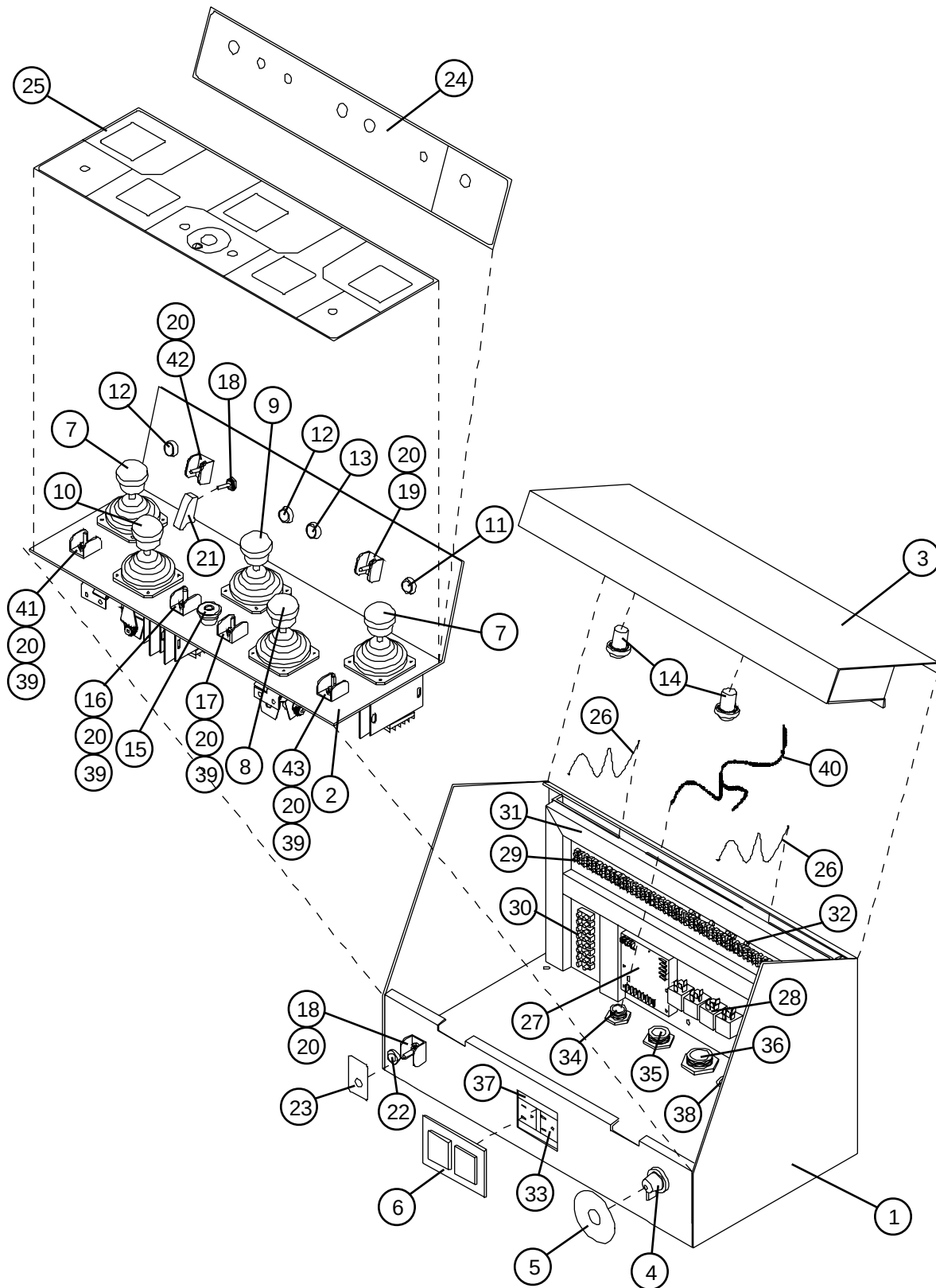


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FIGURE 6-4. PLATFORM CONTROL CONSOLE ASSEMBLY (Serial Number 93266 and Below)

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
A	706616	• CONTROL CONSOLE, Platform (Dual fuel)	-
B	706620	• CONTROL CONSOLE, Platform (Gas)	-
C	706618	• CONTROL CONSOLE, Platform (Diesel)	-
1	703489	• BOTTOM WELDMENT, Control console	1
2	703490	• FACE WELDMENT, Control console	1
	700481	• • BOLT, Mach-hd 1/4"-20x1/2" lg	5
	700583	• • NUT, Lock 1/4"-20	5
3	704254	• TOP WELDMENT, Control console	1
	700481	• • BOLT, Mach-hd 1/4"-20x1/2" lg	4
	700583	• • NUT, Lock 1/4"-20	4
4	701931	• SWITCH, Ignition start	1
5	701776	• LABEL, Ignition switch	1
6	109699	• COVER, 110 Volt GFI	1
	703737	• COVER, Receptical (Europe)	1
	700841	• • BOLT, Mach-hd #6-32x1/2" (Europe)	2
7	702200	• CONTROLLER, Extension and knuckle (For components, refer to Figure 6-8)	2
8	702197	• CONTROLLER, Drive/Steer (For components, refer to Figure 6-5)	1
9	702199	• CONTROLLER, Jib/Platform (For components, refer to Figure 6-7)	1
10	702198	• CONTROLLER, Main boom/Turret (For components, refer to Figure 6-6)	1
11	701935	• LIGHT, Green indicator	1
	703185	• • BULB, 12 Volt #1893	1
12	701934	• LIGHT, Red indicator	2
	703185	• • BULB, 12 Volt #1893	1
13	701936	• DUAL ALARM, 12 Volt	1
	703186	• • BULB, 12 Volt #1815	1
14	701937	• LIGHT, Console	2
	703187	• • BULB, 12 Volt #67	1
15	(Ref.)	• SWITCH ASSEMBLY, Emergency stop	1
	102769	• • HEAD, Emergency stop	1
	103281	• • BASE, Contact	1
16	701930	• SWITCH, Toggle 2 positioned maintained, A	1
17	701933	• SWITCH, Toggle 3 positioned maintained, A, B	1
	701930	• SWITCH, Toggle 2 positioned maintained, C	1
18	701929	• SWITCH, Toggle 2 positioned momentary, A, B	1
	701929	• SWITCH, Toggle 2 positioned momentary, C	2
19	702662	• SWITCH, Toggle 3 positioned momentary (Does not apply to European models)	1
20	111181	• GUARD, Toggle switch	AR
21	701927	• COVER, Toggle switch	1
22	703720	• LIGHT, Indicator, C	1
23	703458	• LABEL, Glow plug, C	1
24	706356	• LABEL, Top console	1
	706958	• LABEL, Top console (Europe)	1
25	706357	• LABEL, Main console	1
	703761	• LABEL, Main console (Europe)	1
Parts List Continued on Page 17.			

FIGURE 6-4. PLATFORM CONTROL CONSOLE ASSEMBLY (Serial Number 93266 and Below)

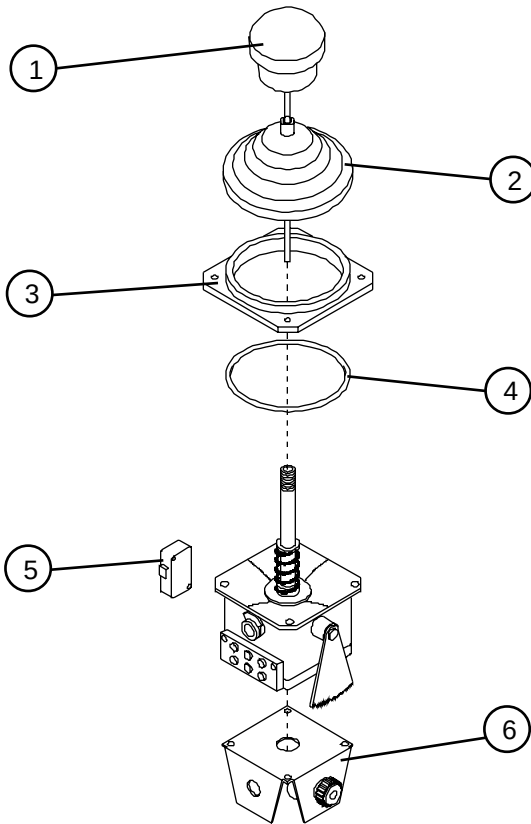


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FIGURE 6-4. PLATFORM CONTROL CONSOLE ASSEMBLY (Serial Number 93266 and Below)

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
		Parts List Continued from Page 15.	
26	703848	• WIRE ASSEMBLY, 17"	2
	104003	• • NUT, #10-32	2
27	704311	• AUTO-LEVELING ELECTRONICS, Platform	1
	103955	• • BOLT, Mach-hd #6-32x3/4"	4
28	701943	• RELAY, Sealed 12VDC	AR
	103962	• • BOLT, Mach-hd #10-32x1/2"	1
	104694	• • WASHER, Flat #10	1
	104185	• • WASHER, Lock #10	1
29	103012	• TERMINAL STRIP, Small	4
	103955	• • BOLT, Mach-hd #6-32x3/4"	2
30	103011	• TERMINAL STRIP, Large	1
	103955	• • BOLT, Mach-hd #6-32x3/4"	2
31	702185	• WIRE DUCT, 1"	22"
	706421	• WIRE DUCT, 1-1/2"	58"
	702186	• COVER, Wire duct 1"	80"
32	700166	• DIODE, Small	AR
33	109698	• OUTLET, 110V GFI (Does not apply to European models)	1
34	103036	• STRAIN RELIEF, Plastic	4
35	103041	• STRAIN RELIEF, 5/8"	1
36	702613	• STRAIN RELIEF, 1-1/8"	1
37	109700	• BOX, 110V GFCI	1
38	102956	• PLUG, Knockout 7/8"	1
39	702262	• PLUG, Knockout 1/2"	AR
40	704478	• WIRE HARNESS, Upper manifold	1
41	701929	• SWITCH, Toggle 2 position momentary(horn option)	1
42	701930	• SWITCH, Toggle 2 position maintained(lights option)	1
43	701930	• SWITCH, Toggle 2 position maintained (hydraulic generator option)	1

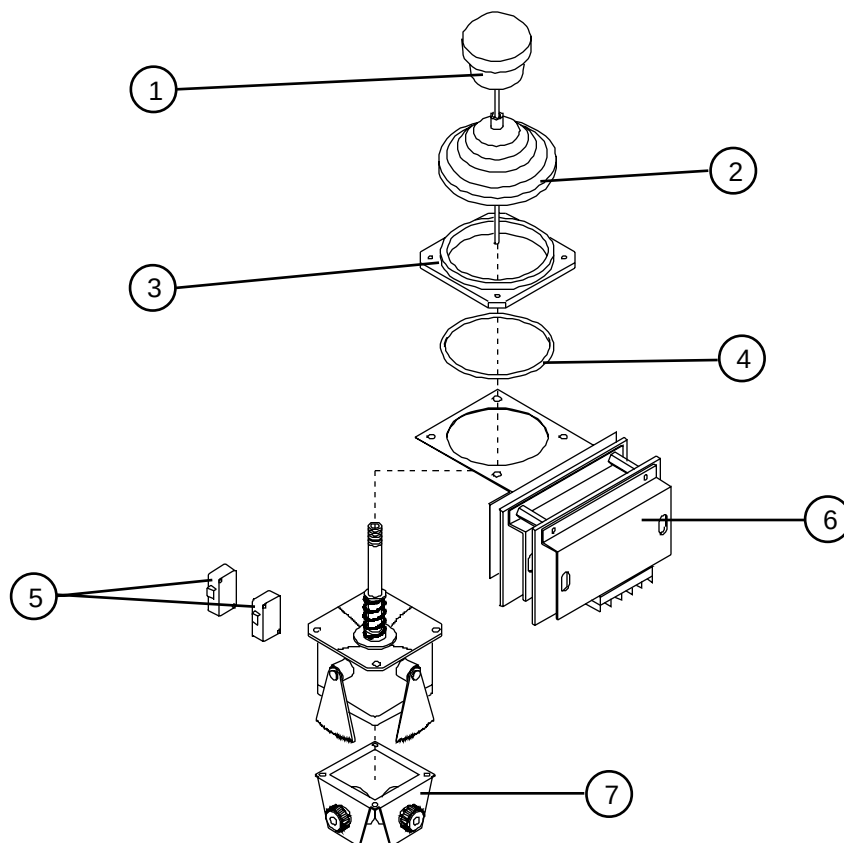
FIGURE 6-5. DRIVE FUNCTION CONTROLLER



MA66-642

Index No.	Skyjack Part No.	Description							Units per Assy.
		1	2	3	4	5	6	7	
	702197	CONTROLLER ASSEMBLY, Drive and steer							-
1	703175	• KNOB, Maintained center							1
2	703166	• BOOT, Controller handle							1
3	703167	• MOUNTING PLATE, Plastic							1
4	703168	• O-RING, Mounting seal							1
5	703172	• SWITCH, Controller							3
6	703178	• POTENTIOMETER ASSEMBLY							1

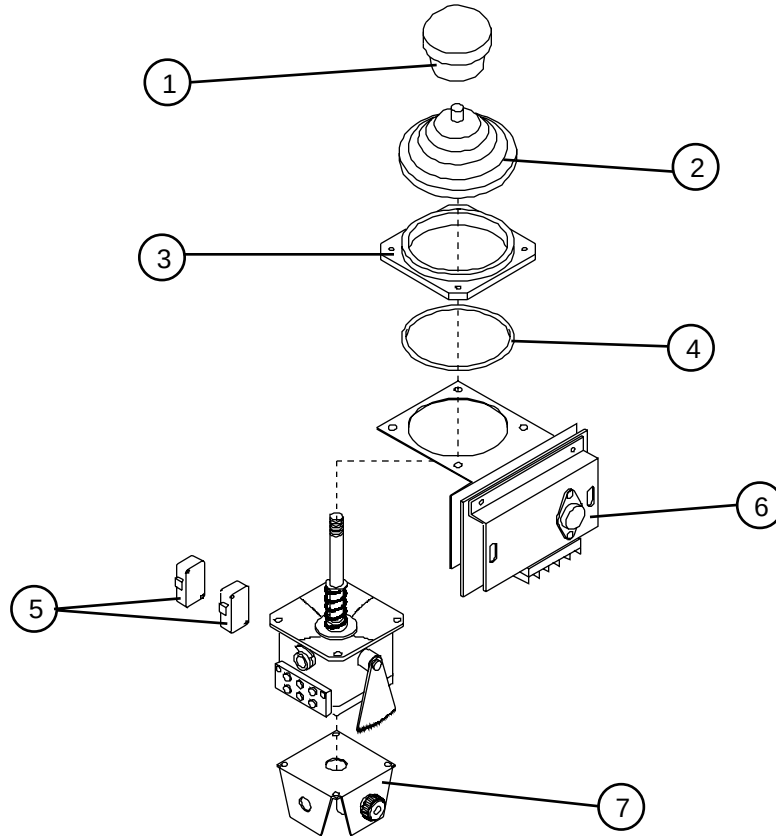
FIGURE 6-6. MAIN BOOM LIFT AND TURRET ROTATION CONTROLLER



MA66-643

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
	702198	CONTROLLER ASSEMBLY, Main lift and turret rotate	-
1	703175	• KNOB, Maintained center	1
2	703166	• BOOT, Controller handle	1
3	703167	• MOUNTING PLATE, Plastic	1
4	703168	• O-RING, Mounting seal	1
5	703172	• SWITCH, Controller	4
6	703176	• CIRCUIT BOARD ASSEMBLY	1
7	703177	• POTENTIOMETER ASSEMBLY	1

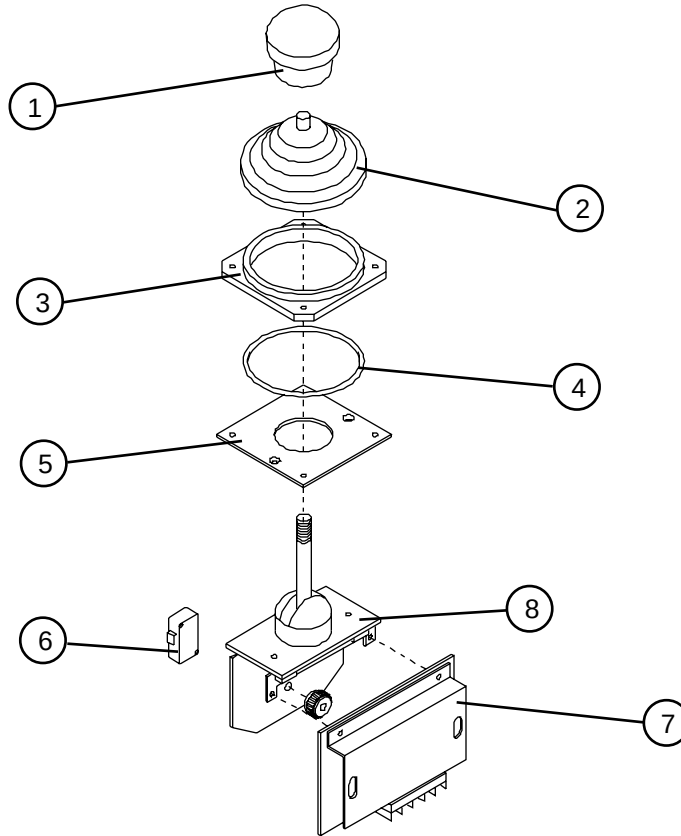
FIGURE 6-7. JIB LIFT AND PLATFORM ROTATION CONTROLLER



M66-644

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
	702199	CONTROLLER ASSEMBLY, Jib lift/platform rotate	-
1	703165	• KNOB, Controller handle	1
2	703166	• BOOT, Controller handle	1
3	703167	• MOUNTING PLATE, Plastic	1
4	703168	• O-RING, Mounting seal	1
5	703172	• SWITCH, Controller	4
6	703173	• CIRCUIT BOARD ASSEMBLY	1
7	703174	• POTENTIOMETER ASSEMBLY	1

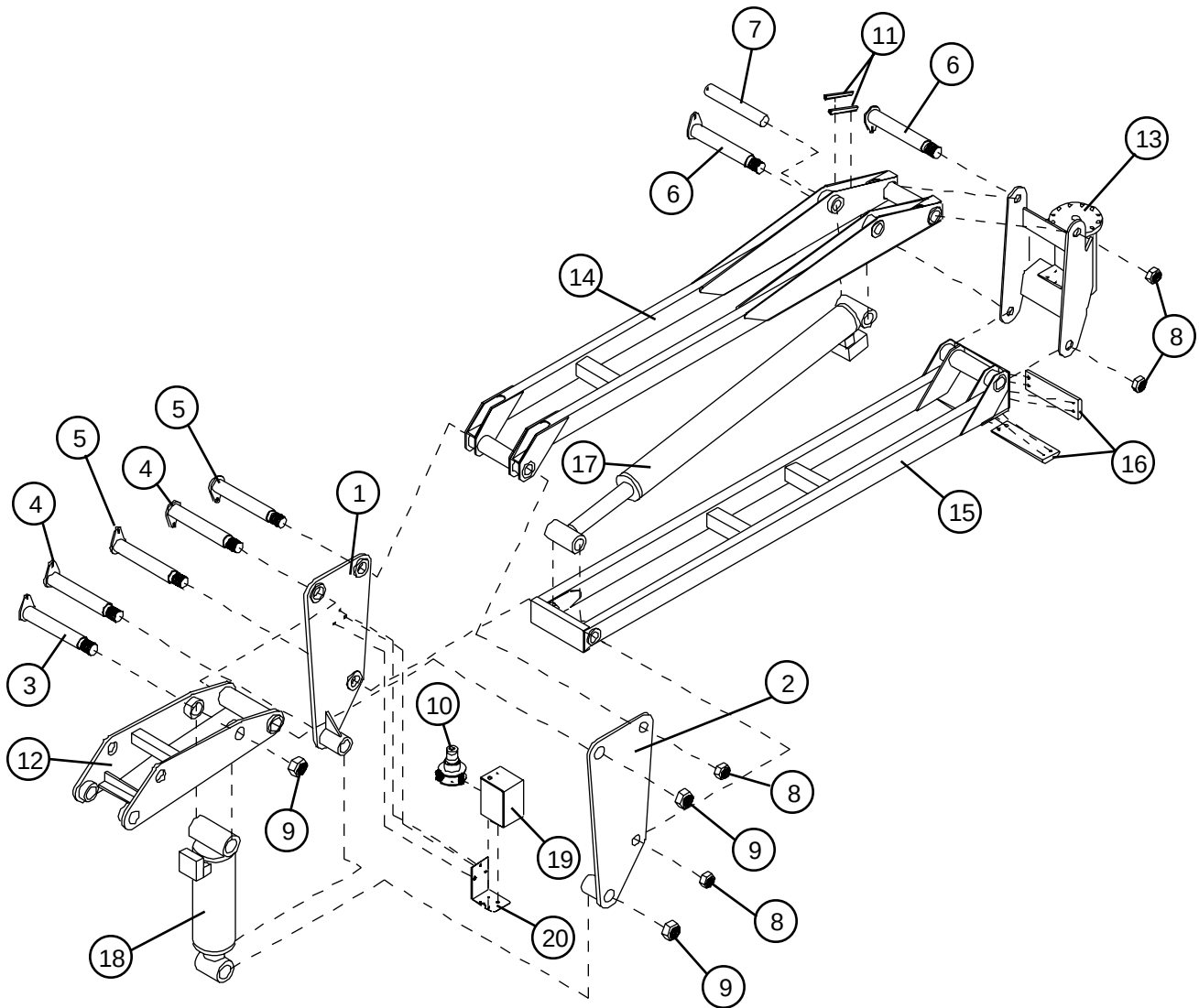
FIGURE 6-8. KNUCKLE LIFT AND BOOM TELESCOPIC CONTROLLER



MA66-645

Index No.	Skyjack Part No.	Description							Units per Assy.
		1	2	3	4	5	6	7	
	702200	CONTROLLER ASSEMBLY, Knuckle and telescopic							-
1	703165	• KNOB, Controller handle							1
2	703166	• BOOT, Controller handle							1
3	703167	• MOUNTING PLATE, Plastic							1
4	703168	• O-RING, Mounting seal							1
5	703169	• MOUNTING PLATE, Flange							1
6	703172	• SWITCH, Controller							2
7	703170	• CIRCUIT BOARD ASSEMBLY							1
8	703171	• SLAVE GEAR, Nylon							1

FIGURE 6-9. BOOM ASSEMBLY (Jib and Rotary Actuator Section)



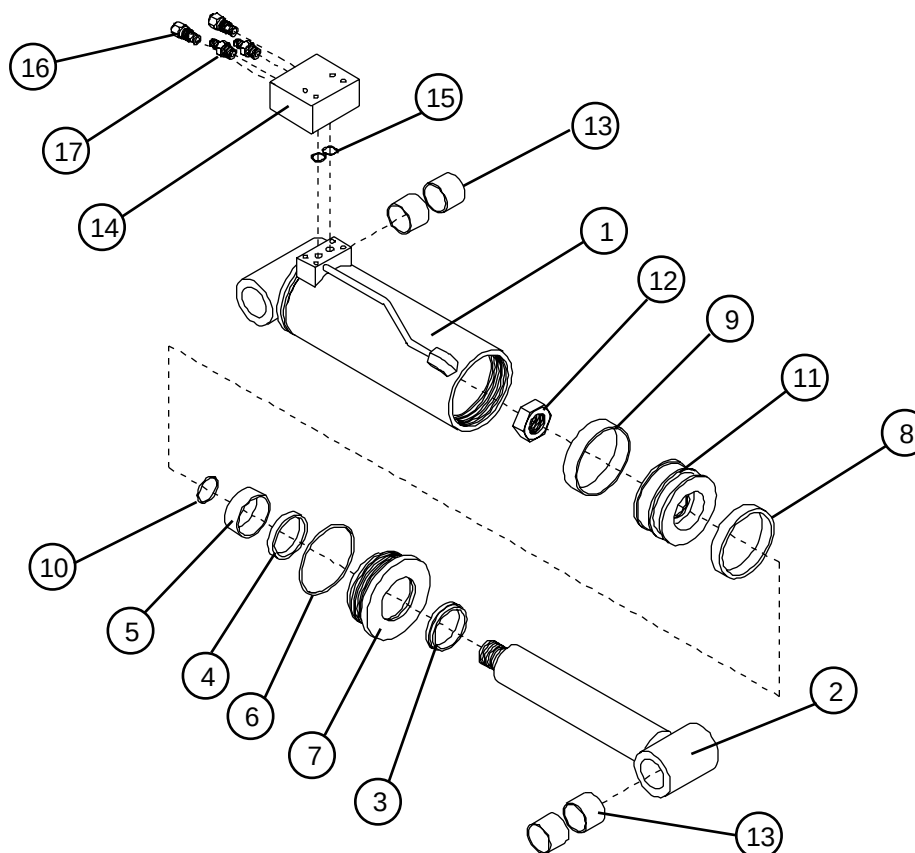
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FIGURE 6-9. BOOM ASSEMBLY (Jib and Rotary Actuator Section)

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	706939	WELDMENT, RH Jib mounting plate	1
2	704976	WELDMENT, LH Jib mounting plate	1
3	704357	WELDMENT, Pin - Leveling cylinder	1
	706872	• BOLT, HHCS 1/2"-13x3/4" w/nylon patch	1
	103470	• WASHER, Lock 1/2"	1
4	704386	WELDMENT, Pin - Jib bracket	2
	706872	• BOLT, HHCS 1/2"-13x3/4" w/nylon patch	2
	103470	• WASHER, Lock 1/2"	2
5	704429	WELDMENT, Pin	2
	706872	• BOLT, HHCS 1/2"-13x3/4" w/nylon patch	2
	103470	• WASHER, Lock 1/2"	2
6	704438	WELDMENT, Pin - Jib/Rotator	2
	706873	• BOLT, HHCS 1/2"-13x5/8" w/nylon patch	2
	103470	• WASHER, Lock 1/2"	2
7	709464	PIN, Jib cylinder (S/N 93352 and Above)	1
	706872	• BOLT, HHCS 1/2"-13x3/4" w/nylon patch	2
	700425	• WASHER, Stop	2
	103470	• WASHER, Lock 1/2"	2
	704630	PIN, Jib cylinder (S/N 93351 and Below)	1
	703157	• BOLT, HHCS 3/8"-16x2-3/4" gr 5	1
	103978	• NUT, Hex 3/8"-16 gr 5	1
	103999	• WASHER, Lock 3/8"	1
8	106230	NUT, Lock 1-1/4"-12 gr C top lock	4
9	701288	NUT, Lock 1-1/2"-12 gr C top lock	3
10	702168	SENSOR, Platform leveling	1
11	706885	EDGE TRIM, Jib	2
12	706947	BRACKET ASSEMBLY, Leveling	1
	101564	• BUSHING, 1-3/4"x1-15/16x1-1/2"	2
13	702018	ACTUATOR ASSEMBLY, Rotary	1
	706942	• ACTUATOR, Rotary	1
	700390	• VALVE BODY	1
	700839	•• BOLT, SHCS 1/4"-20x1-5/8"	3
	103995	•• WASHER, Flat 1/4"	3
	104000	•• WASHER, Lock 1/4"	3
	701487	•• O-RING, Seal	2
	701954	• FITTING, Connector #4orb - #4	2
	701827	• VALVE, Counterbalance	2
	701876	• KIT, Seal Repair	AR
14	709480	PARALLEL ASSEMBLY, Upper jib w/bushings (S/N 93352 and Above)	1
	103216	• BUSHING, 1-1/2"x1-21/32"x1-1/2" lg	6
	100904	• BUSHING, 1-1/2"x1-21/32"x1" lg	2
	702867	PARALLEL ASSEMBLY, Upper jib w/bushings (S/N 93351 and Below)	1
15	702866	PARALLEL ASSEMBLY, Lower jib w/bushings	1
	103216	• BUSHING, 1-1/2"x1-21/32"x1-1/2" lg	4
	100904	• BUSHING, 1-1/2"x1-21/32"x1" lg	2
16	703714	• WEAR PAD	2
	103864	•• BOLT, HHCS 5/16"-18x1"	4
	103984	•• NUT, Lock 5/16"-18	4
17	702143	CYLINDER ASSEMBLY, Jib (For components, refer to Figure 6-11)	1
18	706928	CYLINDER ASSEMBLY, Leveling (For components, refer to Figure 6-10)	1
19	704785	COVER WELDMENT, Level sensor	1
20	704784	BRACKET, Level sensor	1

NOTES

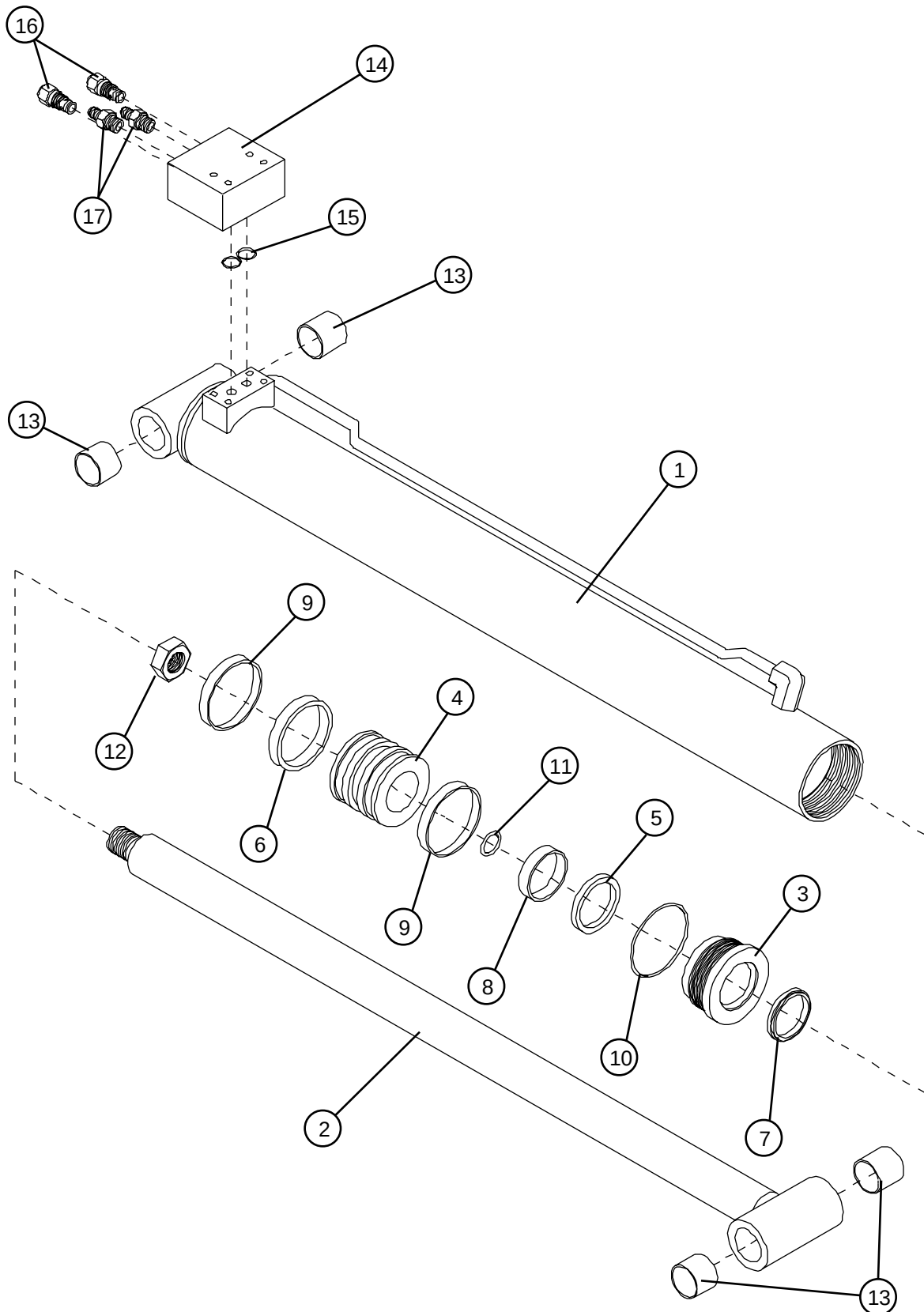
FIGURE 6-10. LEVELING CYLINDER ASSEMBLY



MA66-603

Index No.	Skyjack Part No.	Description							Units per Assy.
		1	2	3	4	5	6	7	
	706928	CYLINDER ASSEMBLY, Platform leveling (Jib)							1
1	702145	• WELDMENT, Cylinder barrel							1
2	706927	• WELDMENT, Cylinder rod							1
3*	700890	• WIPER, Rod							1
4*	106228	• SEAL, Rod							1
5*	106227	• WEAR RING, Rod							1
6*	701968	• O-RING, Gland							1
7	701380	• GLAND							1
8*	701377	• SEAL, Piston							1
9*	109248	• WEAR RING, Piston							1
10*	701967	• O-RING, Piston							1
11	702149	• PISTON							1
12	701288	• Nut, Lock 1-1/2"-12							1
13	101564	• BUSHING, 1-3/4"x1-15/16"x1-1/2"							6
14	701969	VALVE BLOCK							1
15	701635	• O-RING							2
	108429	• BOLT, Soc-hd 5/16"-18x2-1/2" lg.							4
	103404	• WASHER, Lock 5/16"							4
16	701827	VALVE, Counterbalance							2
17	702799	FITTING, Connector #8orb - #4							2
	702644	KIT, Seal repair							AR
	703873	TOOL, Cylinder assembly							AR
		* Part of Seal Repair Kit.							

FIGURE 6-11. JIB LIFT CYLINDER ASSEMBLY

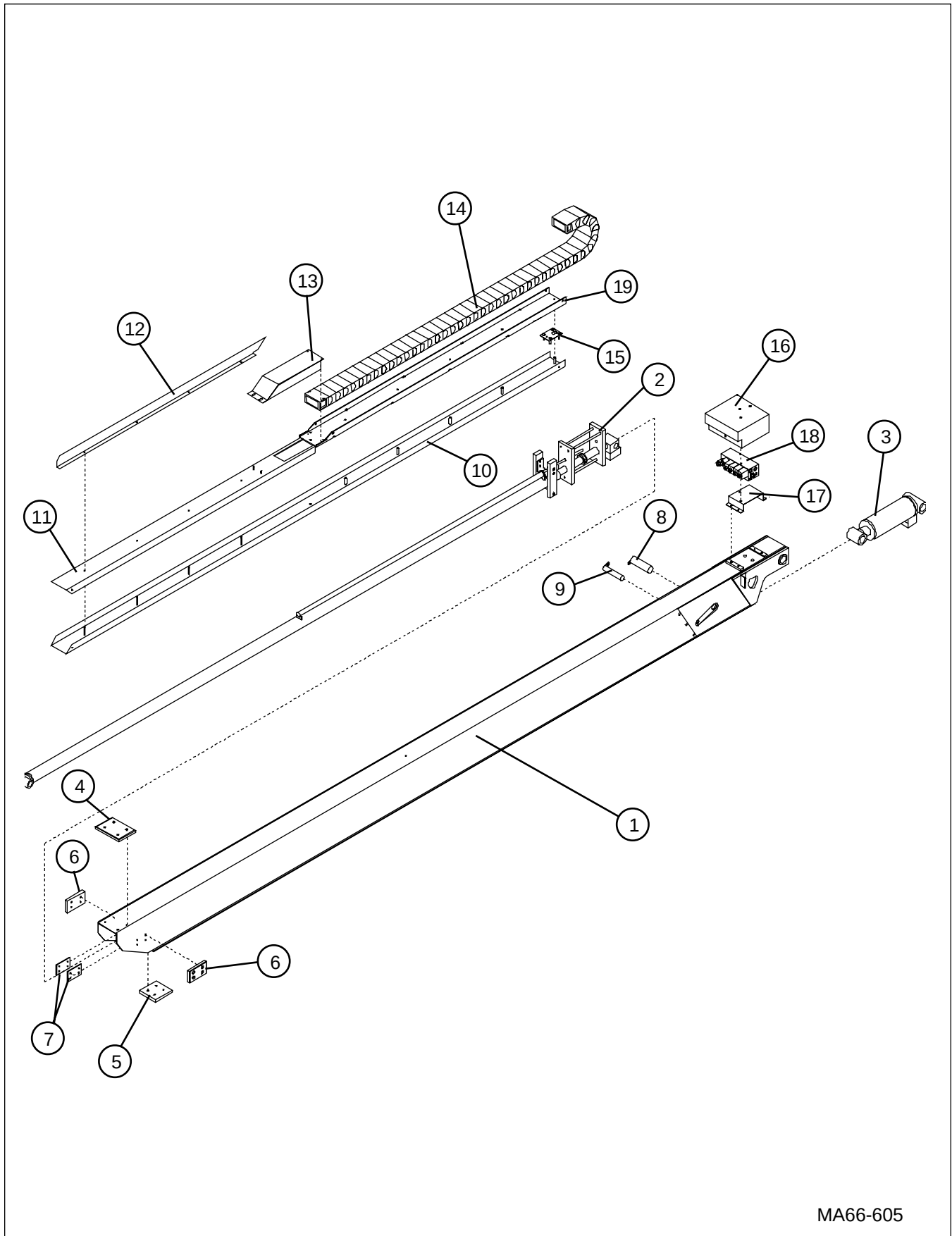


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FIGURE 6-11. JIB LIFT CYLINDER ASSEMBLY

Index No.	Skyjack Part No.	Description							Units per Assy.
		1	2	3	4	5	6	7	
	702143	CYLINDER ASSEMBLY, Jib lift							1
1	702147	• WELDMENT, Barrel							1
2	702146	• WELDMENT, Rod							1
3	701281	• GLAND							1
4	702144	• PISTON							1
5*	700571	• SEAL, Rod							1
6*	106225	• SEAL, Piston							1
7*	700573	• WIPER, Rod							1
8*	700574	• WEAR RING, Gland							1
9*	106226	• WEAR RING, Piston							2
10*	701280	• O-RING, Gland							1
11*	701639	• O-RING, Piston							1
12	106230	• NUT, Lock 1-1/4 -12							1
13	103216	• BUSHING, 1-1/2"x1-21/32x1-1/4" lg.							4
14	701969	VALVE BLOCK							1
15	701635	• O-RING							2
	103884	• BOLT, Hex-hd 5/16-18x2-1/2" lg.							4
	103404	• WASHER, Lock 5/16							4
16	701827	VALVE, Counterbalance							2
17	103070	FITTING, Connector #8orb - #6							2
	702642	KIT, Seal repair							AR
	703872	TOOL, Cylinder assembly							AR
		* Part of Seal Repair Kit.							

FIGURE 6-12. BOOM ASSEMBLY (Fly Boom Section)

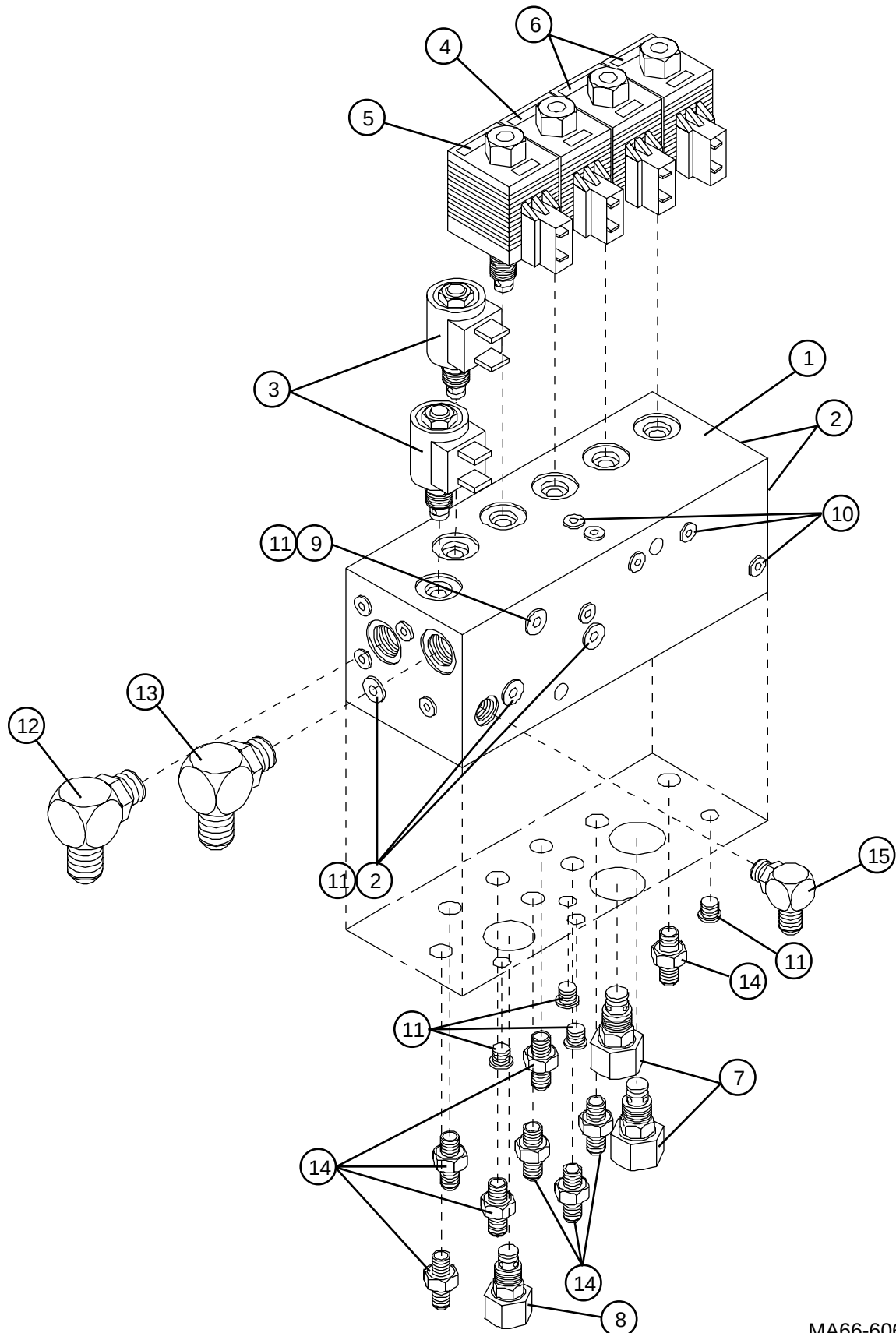


MA66-605

FIGURE 6-12. BOOM ASSEMBLY (Fly Boom Section)

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	706949	BOOM ASSEMBLY, Fly section	1
	101564	• BUSHING, 1-3/4"x1-15/16"x1-1/2" lg.	2
	101297	• BOLT, 3/8"-16x1-1/4" lg.	1
2	701922	CYLINDER ASSEMBLY, Fly boom extension (For components, refer to Figure 6-15.)	1
3	706928	CYLINDER ASSEMBLY, Platform leveling (For components, refer to Figure 6-14.)	1
4	702888	WEAR PAD, Fly boom base upper	1
5	701620	• BOLT, Flat-hd 3/8"-16x3/4" lg.	4
	702889	WEAR PAD, Fly boom base lower	1
6	701620	• BOLT, Flat-hd 3/8"-16x3/4" lg.	4
	702172	WEAR PAD, Fly boom side	2
7	701620	• BOLT, Flat-hd 3/8"-16x3/4" lg.	4
	702181	ATTACHMENT PLATE, Fly boom side wear pad	2
8	704463	PIN WELDMENT, Leveling cylinder	1
9	700582	• BOLT, Flat-hd 1/4"-20x3/4" lg.	1
	704462	PIN WELDMENT, Extension cylinder	1
10	700582	• BOLT, Flat-hd 1/4"-20x3/4" lg.	1
	702905	WELDMENT, Hose carrier tube mid/fly lower	1
11	103996	• WASHER, Flat 5/16"	4
	103984	• NUT, Lock 5/16"-18	4
12	709926	WELDMENT, Hose carrier tube mid/fly upper (S/N 93336 and Above)	1
	700781	• BOLT, Button-hd 5/16"-18x3/8" lg.	5
13	103996	• WASHER, Flat 5/16"	4
	103984	• NUT, Lock 5/16"-18	4
14	702816	STIFFENER, Hose carrier tube	1
	702908	WELDMENT, Hose cover	1
15	706143	• PLATE, Clamp	2
	103984	• NUT, Lock 5/16"-18	2
16	702911	• BOLT, Button-hd 1/4"-20x1" lg.	2
	700583	• NUT, Lock 1/4"-20	2
17	702649	HOSE CARRIER, Mid/fly (41 Links)	1
	703827	• KIT, Link repair	38
18	703862	• BRACKET, Hose carrier	1
	703863	• BRACKET, Hose carrier	1
19	702911	• BOLT, Button-hd 1/4-20 x 1" lg.	8
	700583	• NUT, Lock 1/4-20	8
20	702858	WELDMENT, Carrier tube mounting plate	1
	100397	• NUT, Hex 5/16"-18	4
21	103996	• WASHER, Flat 5/16"	4
	103404	• WASHER, Lock 5/16"	4
22	706402	COVER, Leveling manifold	1
	104606	• NUT, Lock 3/8"-16	2
23	103472	• WASHER, Flat 3/8"	2
	706380	BRACKET, Leveling manifold	1
24	101632	• BOLT, Hex hd 3/8"-16x3/4" lg	4
	103472	• WASHER, Flat 3/8"	4
25	103999	• WASHER, Lock 3/8"	4
	702871	MANIFOLD ASSEMBLY, Leveling (For components refer to Figure 6-13.)	1
26	104606	• NUT, Lock 3/8"-16	2
	702812	• BOLT, Hex hd 3/8"-16x4-1/2" lg	2
27	103472	• WASHER, Flat 3/8"	2
	709909	CATRAC CHANNEL (S/N 93336 and Above)	1
28	709908	CATRAC KIT (S/N 93335 and Below)	1

FIGURE 6-13. PLATFORM LEVELING MANIFOLD ASSEMBLY



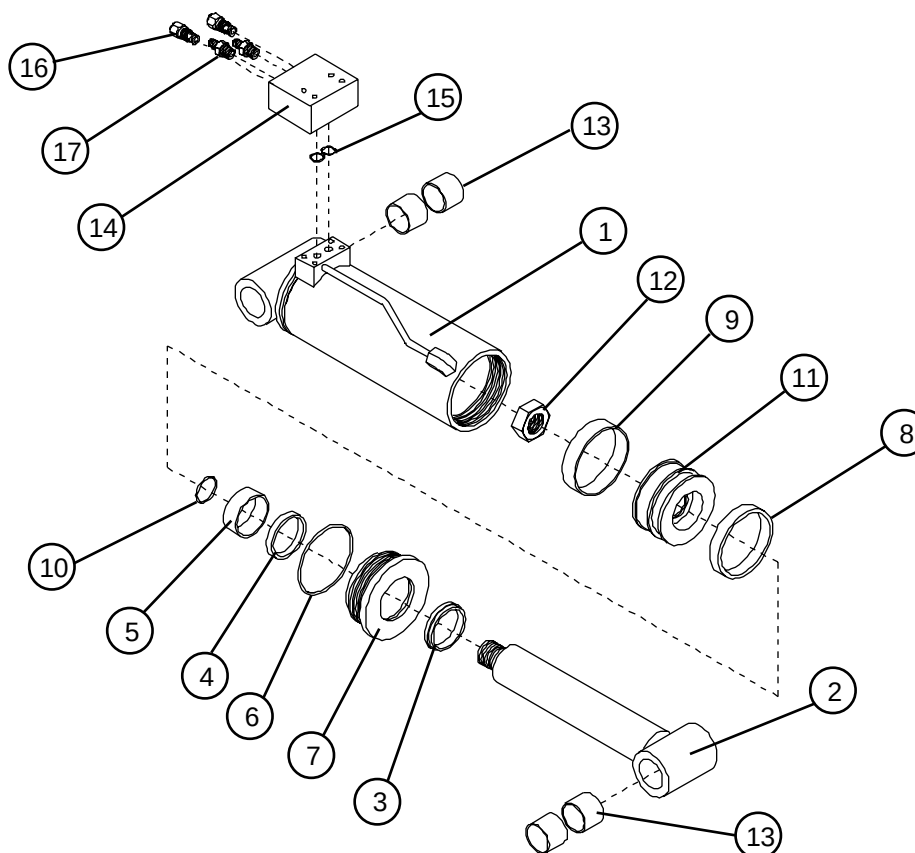
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FIGURE 6-13. PLATFORM LEVELING MANIFOLD ASSEMBLY

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
	703532	MANIFOLD ASSEMBLY, Leveling	1
1	703797	• BLOCK, Manifold	1
2	703197	• SHUTTLE VALVE, Load sensing	5
3	703189	• VALVE, Platform rotation	2
	703803	•• COIL, 12 Volt	1
4	703799	• VALVE, Platform leveling 4 GPM, retract	1
	703804	•• COIL, 12 Volt	1
5	703800	• VALVE, Platform leveling 2 GPM, extend	1
	703804	•• COIL, 12 Volt	1
6	703798	• VALVE, Jib lift, 6 GPM	2
	703804	•• COIL, 12 Volt	1
7	703801	• VALVE, Differential sensing	2
8	703802	• VALVE, Flow control	1
9	703870	• PIPE PLUG, Hex socket	1
10	700764	• PLUG, SAE #2	AR
11	700765	• PLUG, SAE #4	AR
12	102665	FITTING, Elbow 90° #8orb - #6	1
13	701998	FITTING, Elbow 90° #8orb - #8	1
14	701954	FITTING, Connector #4orb - #4	8
15	113348	FITTING, Elbow 90° #6orb - #4	1

NOTES

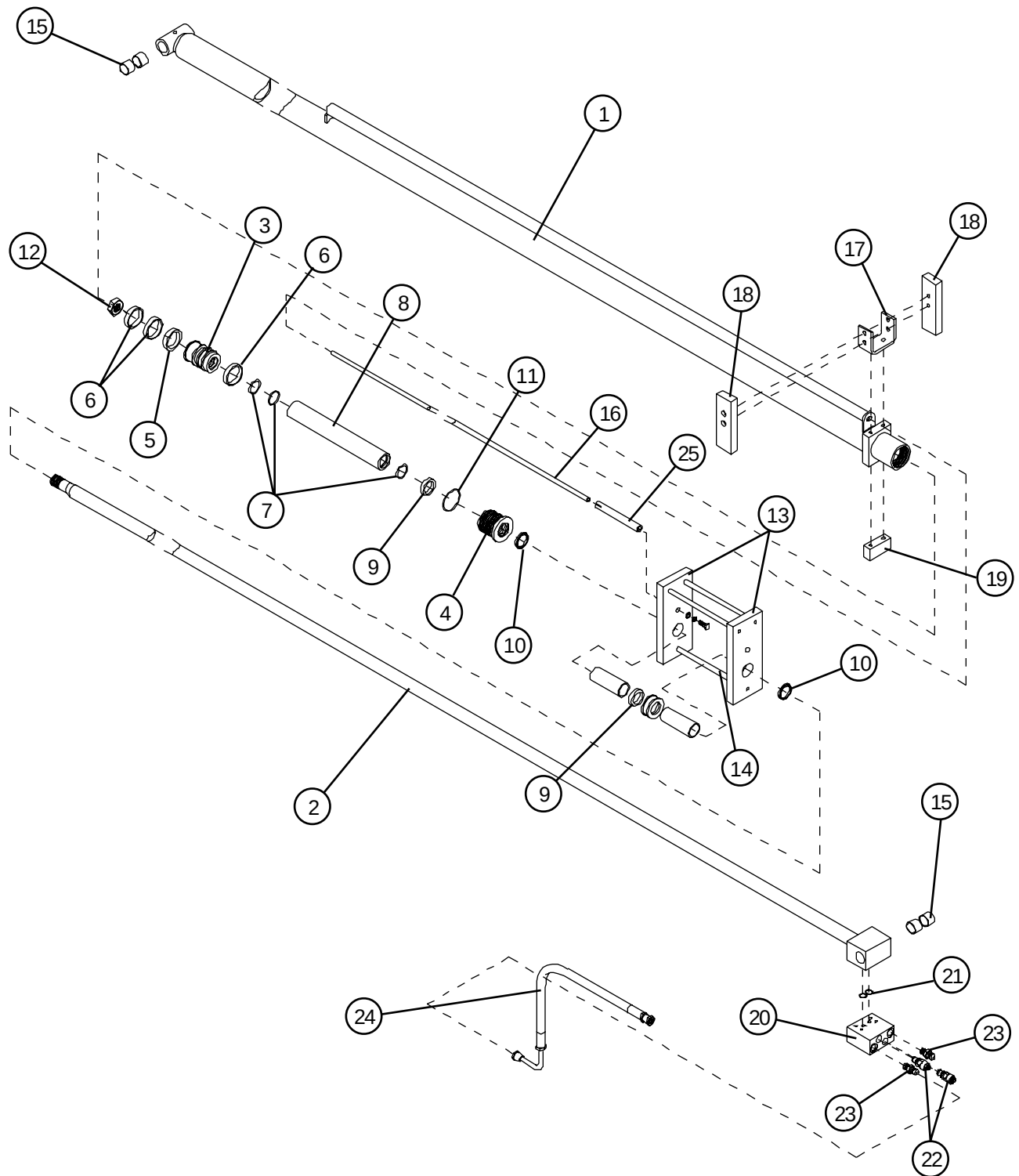
FIGURE 6-14. LEVELING CYLINDER ASSEMBLY



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Index No.	Skyjack Part No.	Description							Units per Assy.
		1	2	3	4	5	6	7	
	702153	CYLINDER ASSEMBLY, Platform leveling (Fly)							1
1	702145	• WELDMENT, Cylinder barrel							1
2	702244	• WELDMENT, Cylinder rod							1
3*	700890	• WIPER, Rod							1
4*	106228	• SEAL, Rod							1
5*	106227	• WEAR RING, Rod							1
6*	701968	• O-RING, Gland							1
7	701380	• GLAND							1
8*	701377	• SEAL, Piston							1
9*	109248	• WEAR RING, Piston							1
10*	701967	• O-RING, Piston							1
11	702149	• PISTON							1
12	701288	• Nut, Lock 1-1/2"-12							1
13	101564	• BUSHING, 1-3/4"x1-15/16"x1-1/2"							6
14	701969	VALVE BLOCK							1
15	701635	• O-RING							2
	108429	• BOLT, Soc-hd 5/16"-18x2-1/2" lg.							4
	103404	• WASHER, Lock 5/16"							4
16	701827	VALVE, Counterbalance							2
17	702799	FITTING, Connector #8orb - #4							2
	702644	KIT, Seal repair							AR
	703873	TOOL, Cylinder assembly							AR
		* Part of Seal Repair Kit.							

FIGURE 6-15. FLY BOOM EXTENSION CYLINDER ASSEMBLY

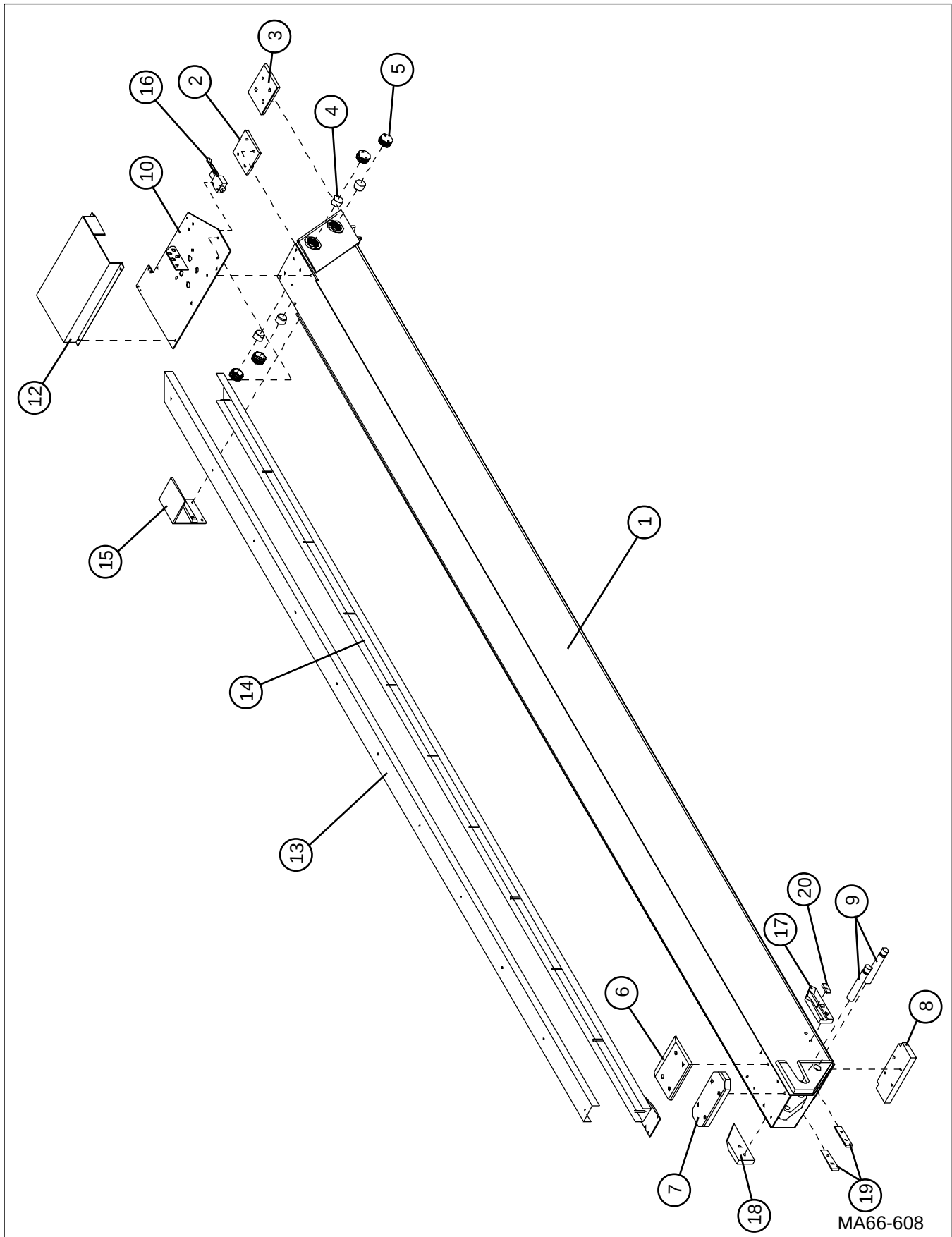


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FIGURE 6-15. FLY BOOM EXTENSION CYLINDER ASSEMBLY

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
	701912	CYLINDER ASSEMBLY, Fly boom extension	1
1	701913	• WELDMENT, Barrel	1
2	701915	• WELDMENT, Rod	1
3	701312	• PISTON	1
4	701314	• GLAND	1
5*	700585	• SEAL, Piston	1
6*	701315	• WEAR RING, Piston	3
7*	701967	• O-RING	3
8	701917	• SPACER	1
9*	701316	• SEAL, Rod	3
10*	701317	• WIPER, Rod	2
11*	701965	• O-RING	1
12	106230	• NUT, Lock 1-1/4"-12	1
13	711583	• GUIDE BAR, Rod, HDPE	2
	103871	•• BOLT, Hex-hd 3/8"-16x1-3/4" lg.	4
	103999	•• WASHER, Lock 3/8"	4
	103472	•• WASHER, Flat 3/8"	4
14	701362	• SUPPORT TUBE, Rod guide plate	2
15	101328	• BUSHING, 1-1/4"x1-13/32"x1" lg.	4
16	701521	GUIDE TUBE	1
	101632	• BOLT, HHCS 3/8"-16x3/4" lg.	1
	103596	• BOLT, HHCS 3/8"-16x2" lg.	1
	103472	• WASHER, Flat 3/8"	4
	103999	• WASHER, Lock 3/8"	2
17	701518	GUIDE SUPPORT, Extension cylinder	1
	101632	• BOLT, HHCS 3/8"-16x3/4" lg.	2
	103999	• WASHER, Lock 3/8"	2
18	701519	PAD, Extension cylinder guide support	2
	701533	• BOLT, Flat-hd 3/8-16 x 2" lg.	4
	104606	• NUT, Lock 3/8"	4
	103472	• WASHER, Flat 3/8"	4
19	702578	PAD, Extension cylinder lower guide	1
	701533	• BOLT, Flat-hd 3/8-16 x 2" lg.	2
	103472	• WASHER, Flat 3/8"	4
20	701969	VALVE BLOCK	1
21	701635	• O-RING	2
	108429	• BOLT, Soc-hd 5/16-18 x 2-1/2" lg.	4
	103404	• WASHER, Lock 5/16"	4
22	701827	VALVE, Counterbalance	2
23	702116	FITTING, connector #8orb-#8	2
24	704535	HOSE ASSEMBLY, (H608 0024 00-0) (Refer to SECTION 5, Page 33.)	2
25	704605	DAMPENER, Guide tube	1
	703092	• CLAMP, Gear #6	2
	702645	KIT, Seal repair	AR
		* Part of Seal Repair Kit.	

FIGURE 6-16. BOOM ASSEMBLY (Mid Boom Section)



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FIGURE 6-16. BOOM ASSEMBLY (Mid Boom Section)

Index No.	Skyjack Part No.	Description	Units per Assy.
1	703735	WELDMENT, Mid boom	1
	702569	WEAR PAD, Hose carrier 1/4" thk. (order separately)	8
	702696	• BOLT, Flat-hd 1/4-20 x 1/2" lg.	2
2	702884	WEAR PAD, Mid boom tip upper	1
	103473	• BOLT, Hex-hd 3/8-16 x 1" lg.	4
	103472	• WASHER, Flat 3/8"	4
	103999	• WASHER, Lock 3/8"	4
	103978	• NUT, Hex 3/8-16	4
3	702885	WEAR PAD, Mid boom tip lower	1
	103871	• BOLT, Hex-hd 3/8-16 x 1-3/4" lg.	4
	103472	• WASHER, Flat 3/8"	4
	103999	• WASHER, Lock 3/8"	4
	103978	• NUT, Hex 3/8-16	4
4	701576	WEAR PAD PLUG, Mid boom	4
5	704661	WEAR PAD CUP, Mid boom	4
6	703756	WEAR PAD, Mid boom base upper	1
	103952	• BOLT, Flat-hd 3/8-16 x 1" lg.	4
	703757	SHIM, Wear pad 9/64" thk.	AR
	703758	SHIM, Wear pad 5/64" thk.	AR
	703759	SHIM, Wear pad 1/16" thk.	AR
7	702886	WEAR PAD, Mid boom base upper	1
	703936	• BOLT, Flat-hd 3/8-16 x 1" lg.	4
8	702887	WEAR PAD, Mid boom base lower	1
	103952	• BOLT, Flat-hd 3/8-16 x 1" lg.	4
9	704628	PIN, Extension cylinder	2
	103473	• BOLT, Hex-hd 3/8-16 x 1"	1
	702929	• NUT, Jam 3/8-16	1
10	707777	WELDMENT, Crossover plate (Serial Number 93461 and Above.)	1
	707776	WELDMENT, Crossover plate (Serial Number 93230 and Above.)	1
	702994	WELDMENT, Crossover plate (Serial Number 93229 and Below.)	1
	101632	• BOLT, Hex-hd 3/8-16 x 3/4" lg.	4
	104606	• NUT, Lock 3/8-16	4
11	103012	TERMINAL STRIP, Small (Serial Number 93229 and Below.)(Not Shown)	4
12	702794	COVER, Crossover plate	1
	103856	• BOLT, Hex-hd 1/4-20 x 3/4" lg.	4
	700583	• NUT, Lock 1/4-20	4
13	704033	TUBE WELDMENT, Hose carrier, upper	1
	103995	• WASHER, Flat 1/4"	11
	700583	• NUT, Lock 1/4-20	11
14	702666	TUBE WELDMENT, Hose carrier lower	1
	103864	• BOLT, Hex-hd 5/16-18 x 1" lg.	2
	103996	• WASHER, Flat 5/16"	2
	103984	• NUT, Lock 5/16-18	2
	704040	• COVER, Stud	11
15	(Ref.)	ASSEMBLY, Hose carrier restraint	1
	702772	• RESTRAINT, Hose carrier	1
	103856	•• BOLT, Hex-hd 1/4-20 x 3/4"	2
	104000	•• WASHER, Lock 1/4"	2
	702569	• WEAR PAD, Hose carrier 1/4" thk.	1
	702696	•• BOLT, Flat-hd 1/4-20 x 1/2" lg.	2
Parts list continued on Page 39.			

FIGURE 6-16. BOOM ASSEMBLY (Mid Boom Section)

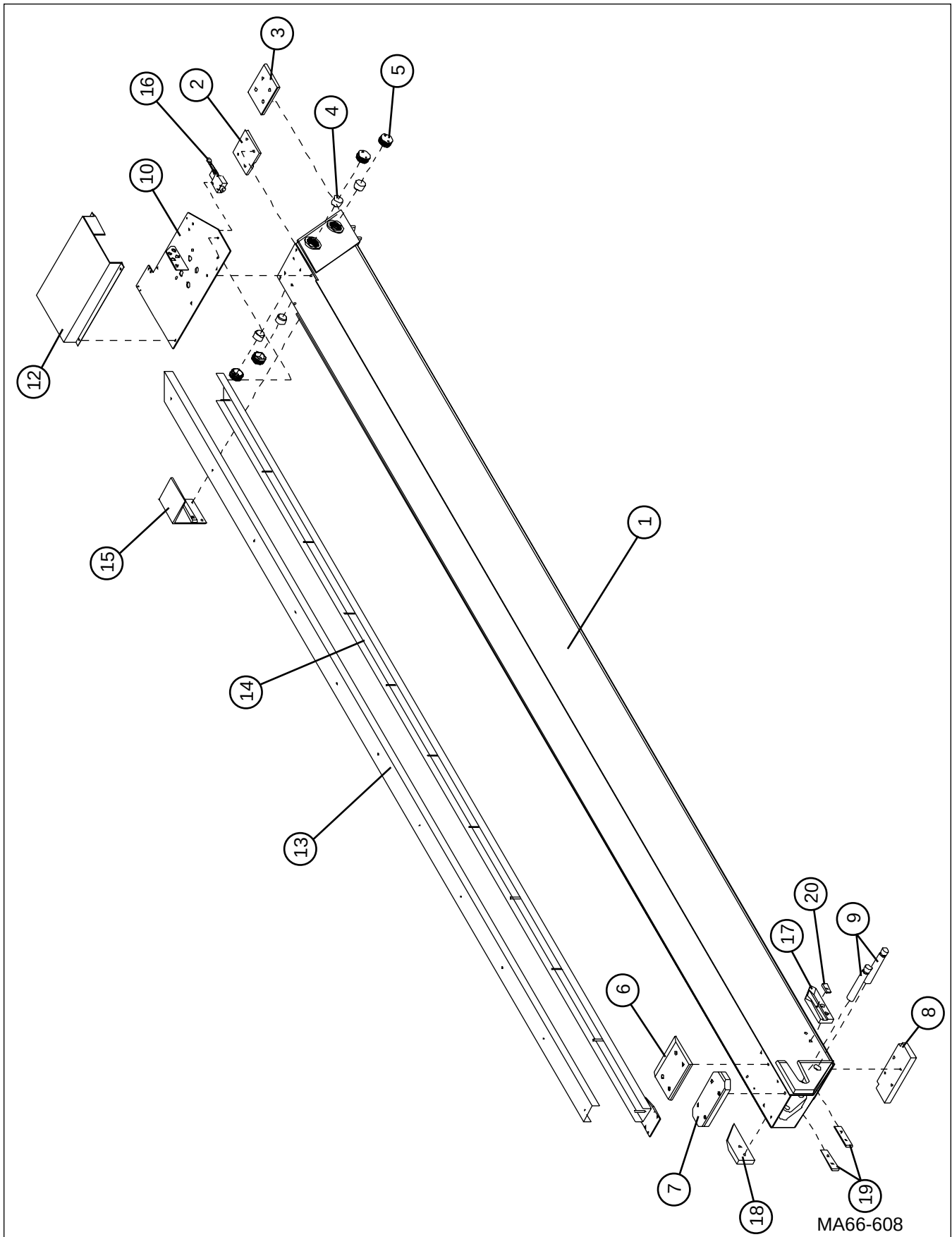
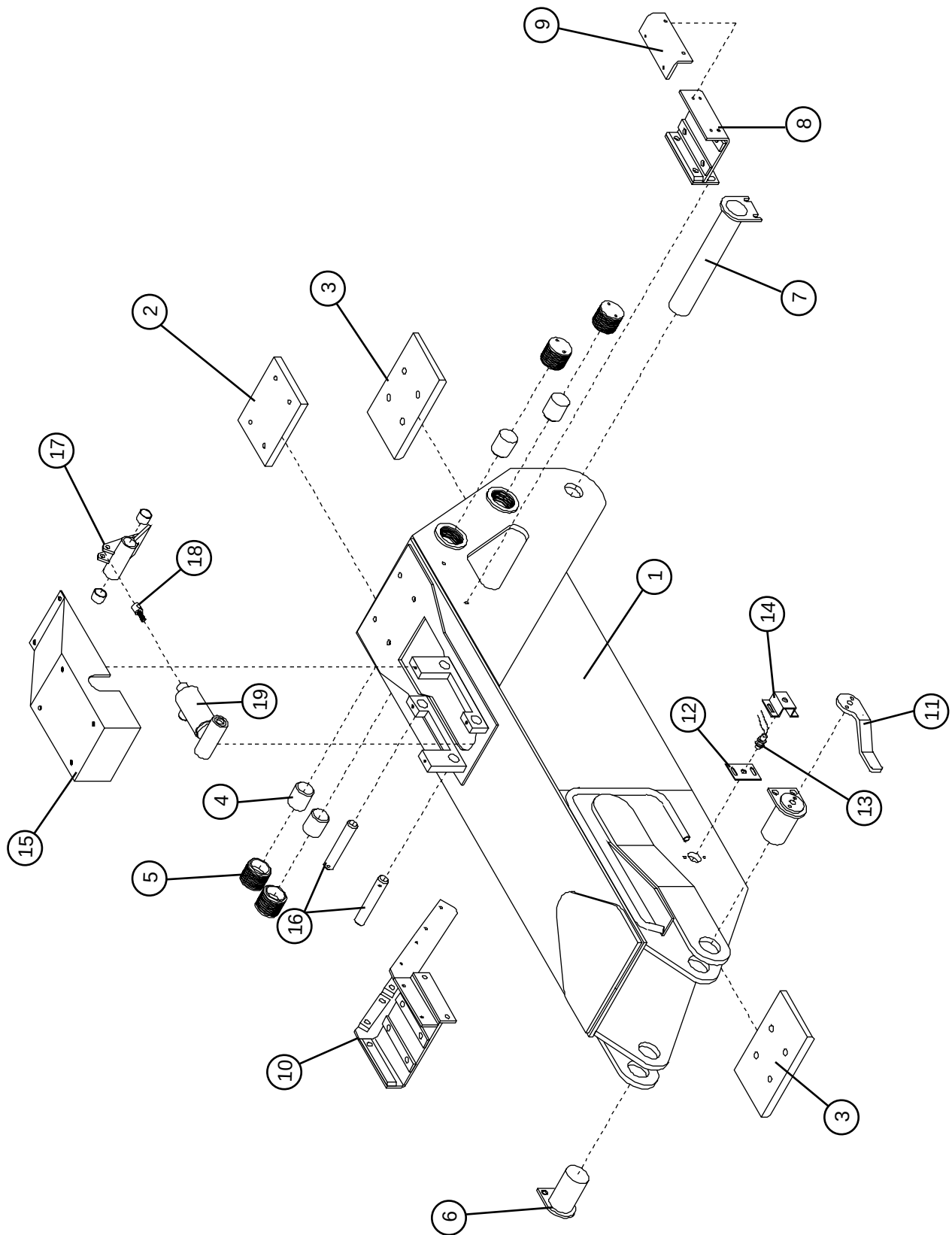


FIGURE 6-16. BOOM ASSEMBLY (Mid Boom Section)

Index No.	Skyjack Part No.	Description							Units per Assy.
		1	2	3	4	5	6	7	
		Parts list continued from Page 37.							
16	702434	LIMIT SWITCH							1
	703962	• SCREW, #10-32 x 1/2" lg.							2
17	703723	WEAR PAD, Mid boom left side							1
	701620	• BOLT, Flat-hd 3/8-16 x 3/4" lg.							2
	703832	SHIM, Wear pad 9/64" thk.							AR
	703833	SHIM, Wear pad 5/64" thk.							AR
	703834	SHIM, Wear pad 1/16" thk.							AR
18	703749	WEAR PAD, Mid boom right side							1
	703832	SHIM, Wear pad 9/64" thk.							AR
	703833	SHIM, Wear pad 5/64" thk.							AR
	703834	SHIM, Wear pad 1/16" thk.							AR
	701620	• BOLT, Flat-hd 3/8-16 x 3/4" lg.							2
19	703724	BACKING PLATE, Mid boom side wear pad							2
20	703732	INSERT, Wear pad							1
	703748	• BOLT, Flat-hd 1/4-20 x 5/8" lg.							1

FIGURE 6-17. BOOM ASSEMBLY (Knuckle Section)

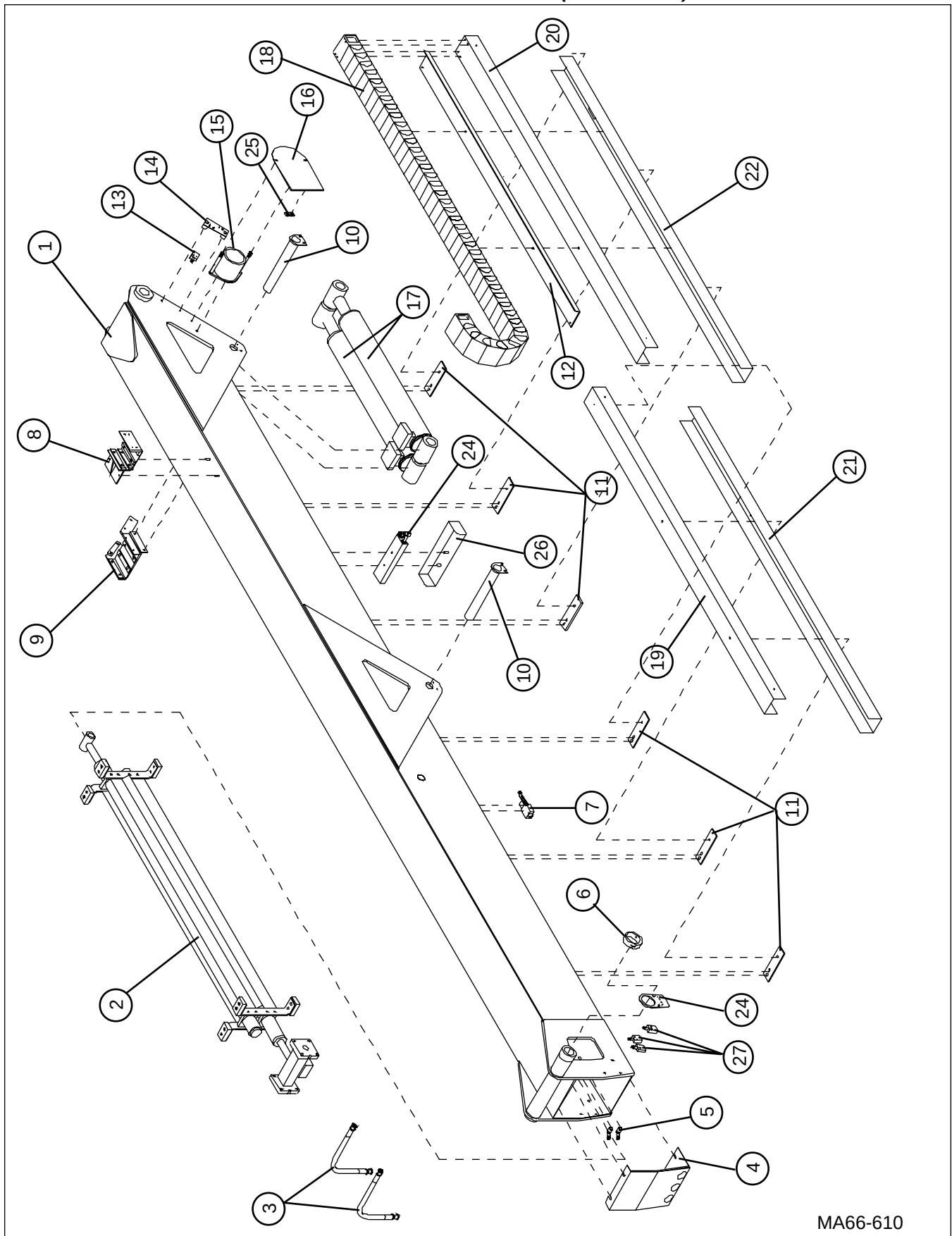


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FIGURE 6-17. BOOM ASSEMBLY (Knuckle Section)

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	706944	WELDMENT, Boom knuckle	1
2	702890	WEAR PAD, Knuckle tip upper	1
	103871	• BOLT, Hex-hd 3/8-16 x 1-3/4" lg.	4
	103472	• WASHER, Flat 3/8"	4
	103999	• WASHER, Lock 3/8"	4
	103978	• NUT, Hex 3/8-16	4
3	702891	WEAR PAD, Knuckle lower	1
	103596	• BOLT, Hex-hd 3/8-16 x 2" lg.	4
	103472	• WASHER, Flat 3/8"	4
	103999	• WASHER, Lock 3/8"	4
	103978	• NUT, Hex 3/8-16	4
4	701579	WEAR PAD PLUG, Knuckle	4
5	704662	WEAR PAD CUP, Knuckle	4
6	704627	PIN WELDMENT, Knuckle	2
	703270	• BOLT, Flat-hd 3/8-16 x 3/4" lg.	2
	703069	• SHIM, 3/32" thk.	AR
7	704442	PIN WELDMENT, Cylinder	1
	703270	• BOLT, Flat-hd 3/8-16 x 3/4" lg.	2
8	(Ref.)	WEAR PAD BRACKET ASSEMBLY, Hose carrier	1
	702595	• BRACKET WELDMENT, Hose carrier wear pad	1
	103887	•• BOLT, Hex-hd 5/16-18 x 3/4" lg.	2
	103996	•• WASHER, Flat 5/16"	2
	103404	•• WASHER, Lock 5/16"	2
	702691	• WEAR PAD, Hose carrier 1/2" thk.	1
	702569	• WEAR PAD, Hose carrier 1/4" thk.	3
	702696	•• BOLT, Flat-hd 1/4-20 x 1/2" lg.	2
9	(Ref.)	ANGLE BRACKET ASSEMBLY, Wear pad	1
	702655	• ANGLE BRACKET, Hose carrier wear pad	1
	103855	•• BOLT, Hex-hd 1/4-20 x 1/2" lg.	2
	104000	•• WASHER, Lock 1/4"	2
	702569	• WEAR PAD, Hose carrier 1/4" thk.	1
	702696	•• BOLT, Flat-hd 1/4-20 x 1/2" lg.	2
10	(Ref.)	WEAR PAD BRACKET ASSEMBLY, Hose carrier	1
	709911	• BRACKET WELDMENT, Hose carrier wear pad (S/N 93336 and Above)	1
	103887	•• BOLT, Hex-hd 5/16-18 x 3/4" lg.	2
	103404	•• WASHER, Lock 5/16"	2
	702691	• WEAR PAD, Hose carrier 1/2" thk.	2
	702569	• WEAR PAD, Hose carrier 1/4" thk.	6
	702696	•• BOLT, Flat-hd 1/4-20 x 1/2" lg.	2
11	703004	ACTIVATOR, Limit switch	1
	103855	• BOLT, Hex-hd 1/4-20 x 1/2" lg.	2
	104000	• WASHER, Lock 1/4"	2
12	703722	MOUNTING PLATE, Proximity switch	1
13	706293	SWITCH, Proximity	1
14	706388	COVER, Proximity switch	1
	103855	• BOLT, Hex-hd 1/4-20 x 1/2" lg.	2
	104000	• WASHER, Lock 1/4"	2
	706415	• PIN, Roll 1/8x5/8	2
15	706470	WELDMENT, Lock cylinder cover	1
	103885	• BOLT, HHCS 1/2-20x1/2	2
	104000	• WASHER, Lock 1/4	2
	103995	• WASHER, Flat 1/4	2
16	706690	PIN, Lock	2
17	706721	PLATE ASSEMBLY, Locking	1
	706675	• PLATE WELDMENT, Locking	1
	100249	• BUSHING	2
18	706925	ROD END, Adjustable	1
19	706677	CYLINDER ASSEMBLY, Mid boom lock (For components refer to Figure 6-22)	1

FIGURE 6-18. BOOM ASSEMBLY (Main Section)

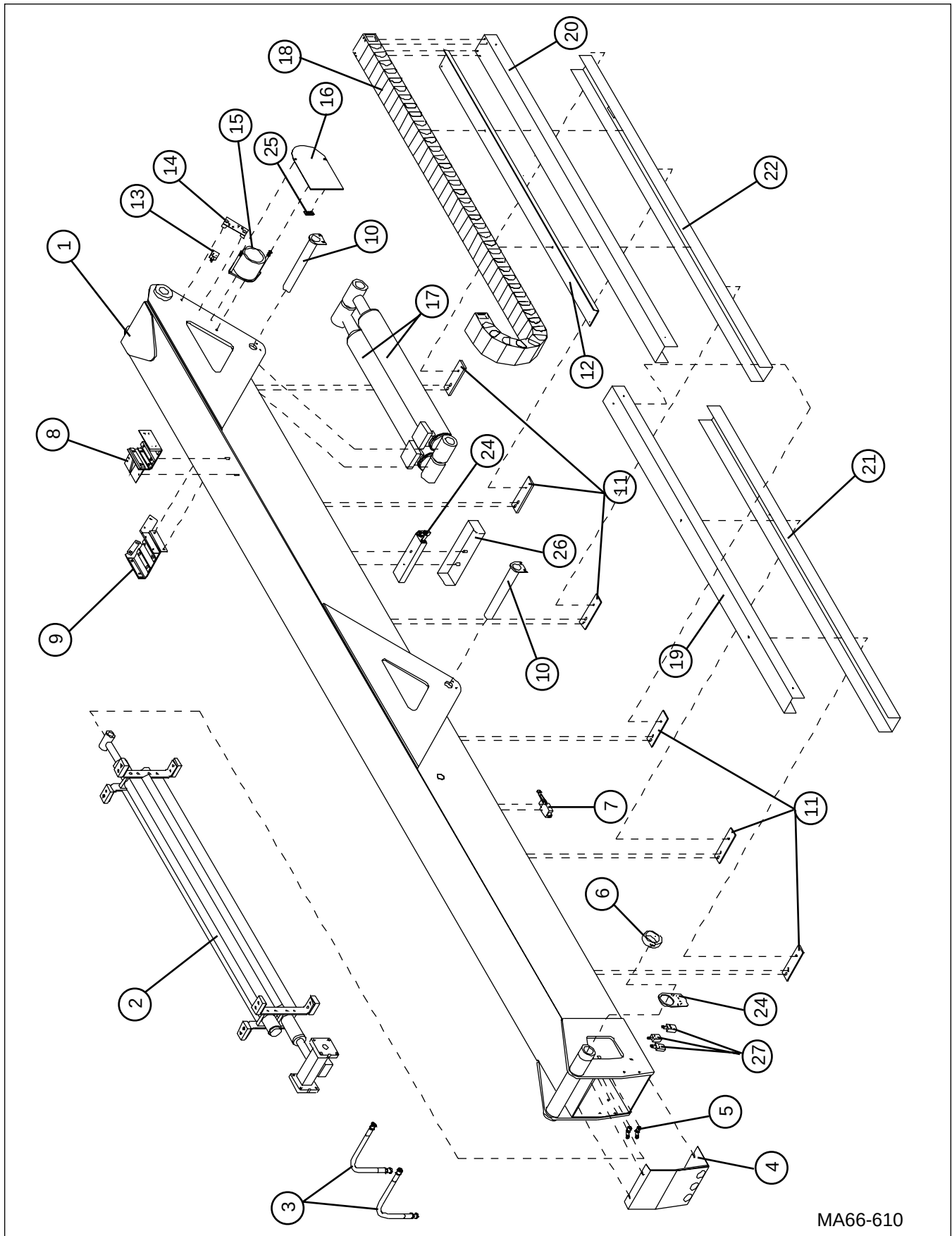


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FIGURE 6-18. BOOM ASSEMBLY (Main Section)

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	706948	BOOM ASSEMBLY, Main	1
	706941	• WELDMENT, Main boom	1
	103208	• BUSHING, 2" x 2-3/16" x 1-1/2" lg.	4
	701328	• BUSHING, 2-1/4" x 2-7/16" x 1-3/4" lg.	2
2	701997	HYDRAULIC ASSEMBLY, Mid extend dual cylinder (For components, refer to Figure 6-19.)	1
3	703886	HOSE ASSEMBLY, (H108-0019-00-0) (Refer to SECTION 5, Page 33)	2
4	702823	WELDMENT, Cover	1
	101632	• BOLT, Hex-hd 3/8-16 x 3/4" lg.	4
	103999	• WASHER, Lock 3/8"	4
5	702597	FITTING, Bulkhead, elbow 45° #8 - #8	2
6	706864	CAM, Main boom limit switch	1
7	702051	• SET SCREW, Soc-hd 1/4-20 x 3/8" lg.	2
	708602	ASSEMBLY, Limit switch (Includes 18/2 cabtire cable)	1
	710506	• CABTIRE CABLE, 18/2	1
	103962	• BOLT, Mach-hd 10-32 x 1/2" lg.	2
8	104185	• WASHER, Lock #10	2
	(Ref.)	GUIDE ASSEMBLY, Hose carrier	1
	702640	• WELDMENT, Hose carrier guide	1
	103984	• NUT, Lock 5/16-18	2
	103996	• WASHER, Flat 5/16"	2
	702691	• WEAR PAD, Hose carrier 1/2" thk.	2
	702569	• WEAR PAD, Hose carrier 1/4" thk.	4
	702696	• BOLT, Flat-hd 1/4-20 x 1/2" lg.	2
	(Ref.)	WEAR PAD BRACKET ASSEMBLY, Hose carrier	1
	702850	• BRACKET WELDMENT, Hose carrier wear pad	1
9	103887	• BOLT, Hex-hd 5/16-18 x 3/4" lg.	2
	103996	• WASHER, Flat 5/16"	2
	103404	• WASHER, Lock 5/16"	2
	702691	• WEAR PAD, Hose carrier 1/2" thk.	2
	702569	• WEAR PAD, Hose carrier 1/4" thk.	6
	702696	• BOLT, Flat-hd 1/4-20 x 1/2" lg.	2
	704449	PIN WELDMENT	2
10	103887	• BOLT, Hex-hd 5/16-18 x 3/4" lg.	2
	103996	• WASHER, Flat 5/16"	2
	103404	• WASHER, Lock 5/16"	2
11	702646	SUPPORT, Hose carrier	6
	103887	• BOLT, Hex-hd 5/16-18 x 3/4" lg.	2
	103404	• WASHER, Lock 5/16"	2
12	706865	CHANNEL, Catrac	1
	101632	• BOLT, Hex-hd 3/8-16 x 3/4" lg.	4
	103999	• WASHER, Lock 3/8"	4
13	706294	LIMIT SWITCH, Booted	1
	703268	• BOLT, Mach-hd 10-32 x 3/4" lg.	2
	104185	• WASHER, Lock #10	2
14	706329	WELDMENT, Limit switch mount	1
	103952	• BOLT, Flat-hd 3/8-16 x 1" lg.	2
Parts list continued on Page 45.			

FIGURE 6-18. BOOM ASSEMBLY (Main Section)

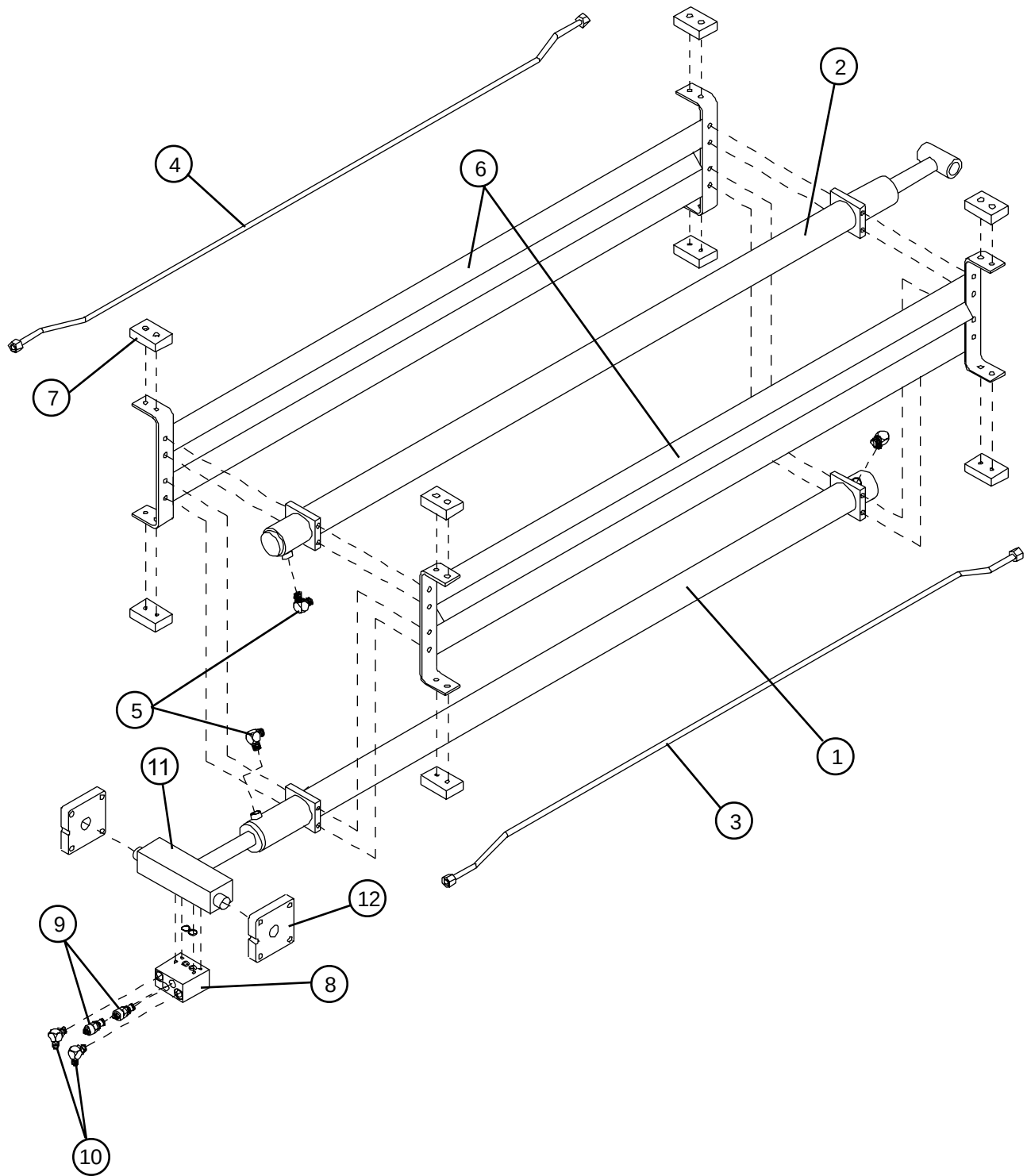


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FIGURE 6-18. BOOM ASSEMBLY (Main Section)

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
		Parts list continued from Page 43.	
15	703677	HOSE SUPPORT, (Serial number 93442 and Above.)	1
	701724	HOSE SUPPORT, (Serial number 93441 and Below.)	1
	101632	• BOLT, Hex-hd 3/8-16 x 3/4" lg.	2
	103999	• WASHER, Lock 3/8"	2
16	703676	COVER, Hose support, (Serial number 93442 and Above.)	1
	702722	COVER, Hose support, (Serial number 93441 and Below.)	1
	702507	• NUT, Lock 1/2"-13	2
	710554	HOSE SLEEVE, (Not Shown), (Serial Number 93444 and Above.)	1
	710664	EDGE TRIM, (Not Shown), (Serial Number 93444 and Above.)	2
17	701375	CYLINDER ASSEMBLY, Knuckle (For components, refer to Figure 6-23.)	2
18	702651	HOSE CARRIER ASSEMBLY, Main	1
	703826	• KIT, Link repair	38
	703828	• BRACKET, Hose carrier	1
	703861	• BRACKET, Hose carrier	1
	111231	• BOLT, Button-hd 5/16-18 x 1" lg.	4
	703269	• BOLT, Button-hd 5/16-18 x 1" lg. s.s.	4
	103984	• NUT, Lock 5/16-20	8
19	702693	HOSE CARRIER CHANNEL, Upper left	1
20	702692	HOSE CARRIER CHANNEL, Upper right	1
21	702695	HOSE CARRIER CHANNEL, Lower left	1
	702674	• BOLT, Hex-hd 1/4-20 x 4" lg	5
	103995	• WASHER, Flat 1/4"	10
	700853	• WASHER, Lock 1/4"	5
22	702694	HOSE CARRIER CHANNEL, Lower right	1
	103857	• BOLT, Hex-hd 1/4-20 x 1" lg	6
	103995	• WASHER, Flat 1/4"	12
	700853	• WASHER, Lock 1/4"	6
23	702872	MANIFOLD ASSEMBLY, Knuckle cylinder distribution	1
	702607	• MANIFOLD, Distribution	1
	701850	• FITTING, Elbow 90° #4orb - #4	4
	701998	• FITTING, Elbow 90° #8orb - #8	1
	702798	• FITTING, Elbow long 90° #8orb - #8	1
24	706336	MOUNTING PLATE, Booted limit switch	1
	101632	• BOLT, Hex-hd 3/8-16 x 3/4" lg.	2
	103999	• WASHER, Lock 3/8"	2
	103472	• WASHER, Flat 3/8"	2
25	103011	TERMINAL STRIP, Large	.4
	104698	• BOLT, Mach-hd 10-32 x 3/4" lg.	2
26	703784	COVER WELDMENT, Distribution manifold	1
	103915	• BOLT, Hex-hd 3/8-16 x 3-1/2" lg.	2
	103999	• WASHER, Lock 3/8"	2
	103472	• WASHER, Flat 3/8"	2
27	706294	LIMIT SWITCH, Booted	3
	703268	• BOLT, Mach-hd 10-32 x 3/4" lg.	2
	104185	• WASHER, Lock #10	2

FIGURE 6-19. MID BOOM EXTENSION CYLINDER ASSEMBLY

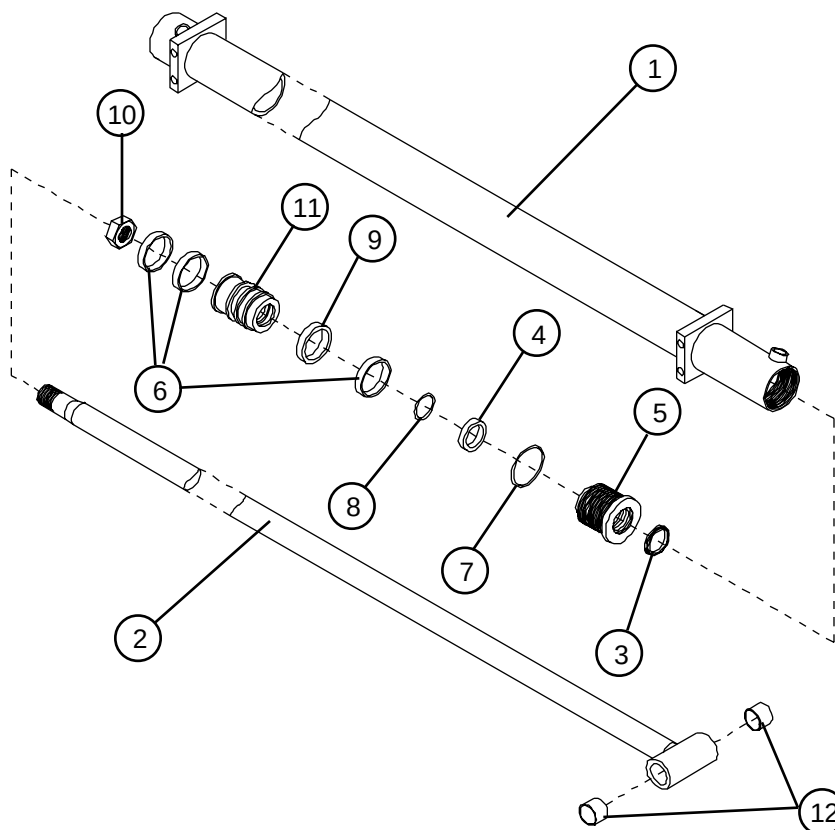


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FIGURE 6-19. MID BOOM EXTENSION CYLINDER ASSEMBLY

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
	701997	HYDRAULIC ASSEMBLY, Mid extend dual cylinder	-
1	702043	• CYLINDER ASSEMBLY, Mid extension lower (For components, refer to Figure 6-21.)	1
2	702052	• CYLINDER ASSEMBLY, Mid extension upper (For components, refer to Figure 6-20.)	1
3	701946	• TUBE ASSEMBLY, Crossover	1
4	702319	• TUBE ASSEMBLY, Crossover	1
5	704167	• FITTING, Elbow 90° #6orb - #8	4
6	702001	• WELDMENT, Cylinder mount	2
	103473	•• BOLT, Hex-hd 3/8-16 x 1" lg.	8
	103999	•• WASHER, Lock 3/8"	8
7	701538	• WEAR PAD, Mid boom extension cylinder	8
	701533	•• BOLT, Flat-hd 3/8-16 x 2" lg.	2
	104606	•• NUT, Lock 3/8-16	2
8	701969	• VALVE BLOCK, Extension cylinder	1
	701635	•• O-RING	2
	108429	•• BOLT, Soc-hd 5/16-18 x 2-1/2" lg.	4
	103404	•• WASHER, Lock 5/16"	4
9	701827	• VALVE, Counterbalance	2
10	701998	• FITTING, Elbow 90° #8orb - #8	2
11	704629	• PIN, Mid boom extension cylinder	2
12	702060	• MOUNTING PLATE, Extension cylinder	2
	103906	•• BOLT, Hex-hd 1/2-13 x 1-3/4" lg.	3
	103470	•• WASHER, Lock 1/2"	3

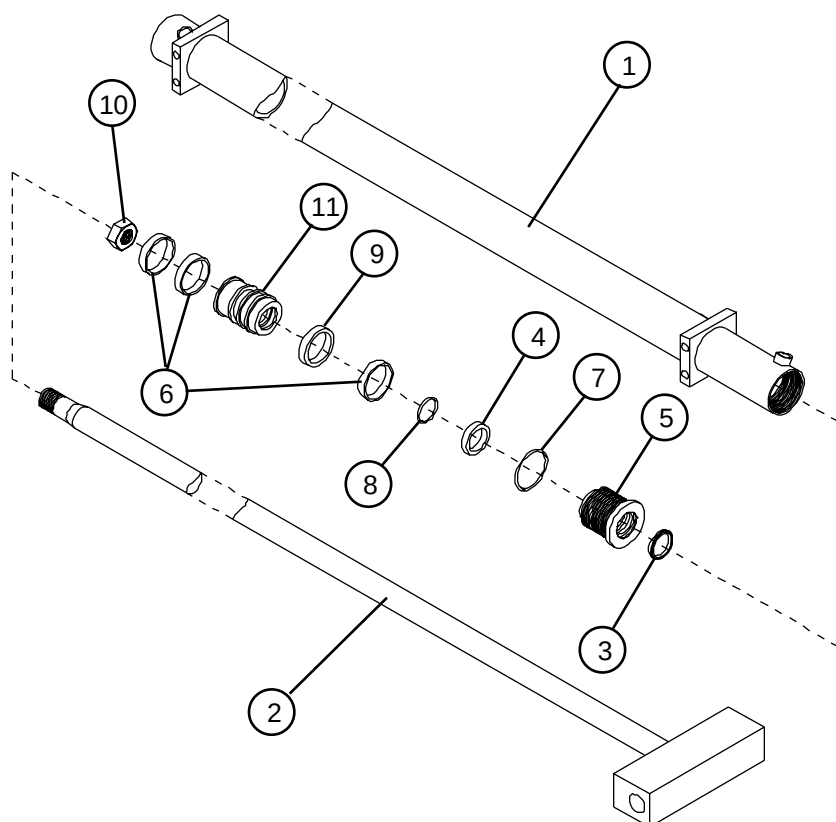
FIGURE 6-20. MID BOOM EXTENSION UPPER CYLINDER ASSEMBLY



MA66-612

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
	702052	CYLINDER ASSEMBLY, Mid boom upper extension	-
1	701341	• WELDMENT, Barrel	1
2	702053	• WELDMENT, Rod	1
3*	701317	• WIPER, Rod	1
4*	701316	• SEAL, Rod	1
5	701314	• GLAND	1
6*	701315	• WEAR RING, Piston	3
7*	701965	• O-RING, Gland	1
8*	701967	• O-RING, Piston	1
9*	700585	• SEAL, Piston	1
10	106230	• NUT, Lock 1-1/4 -12	1
11	701312	• PISTON	1
12	101328	• BUSHING, 1-1/4" x 1-13/32" x 1" lg.	2
	702645	KIT, Seal repair	AR

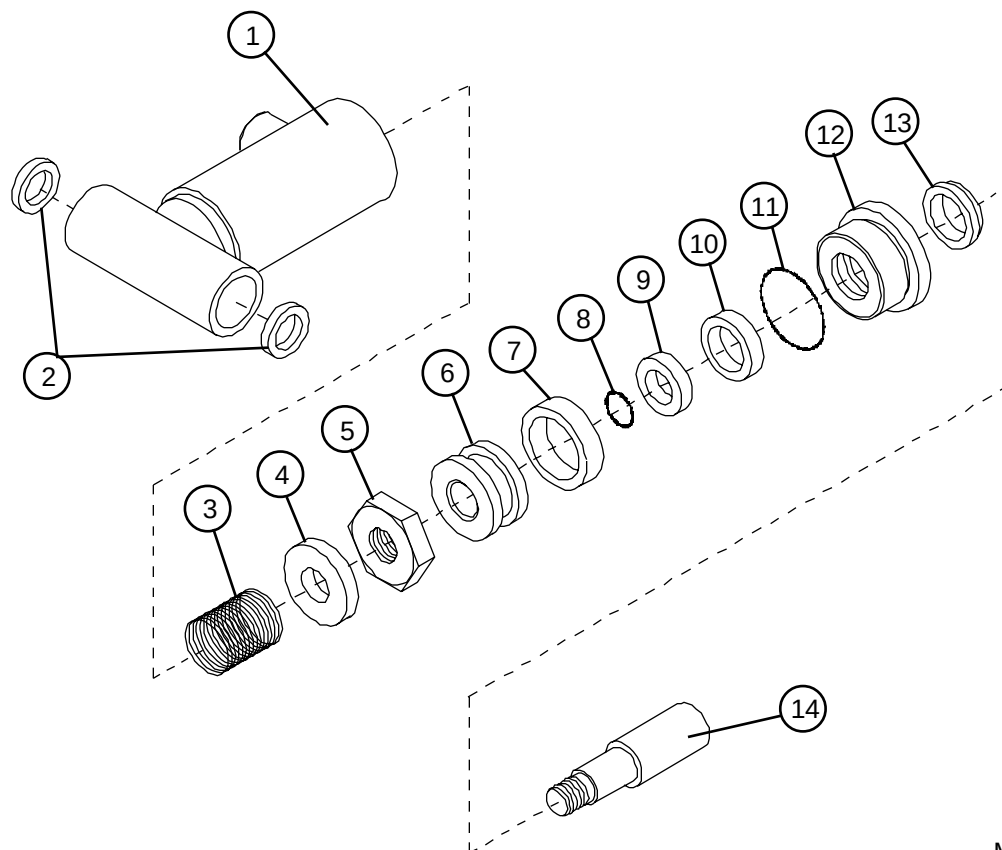
FIGURE 6-21. MID BOOM EXTENSION LOWER CYLINDER ASSEMBLY



MA66-613

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
	702043	CYLINDER ASSEMBLY, Mid boom lower extension	-
1	701534	• WELDMENT, Barrel	1
2	702044	• WELDMENT, Rod	1
3*	701317	• WIPER, Rod	1
4*	701316	• SEAL, Rod	1
5	701314	• GLAND	1
6*	701315	• WEAR RING, Piston	3
7*	701965	• O-RING, Gland	1
8*	701967	• O-RING, Piston	1
9*	700585	• SEAL, Piston	1
10	106230	• NUT, Lock 1-1/4 -12	1
11	701312	• PISTON	1
	702645	KIT, Seal repair	AR

FIGURE 6-22. Mid Boom Lock Cylinder.



MA66-614

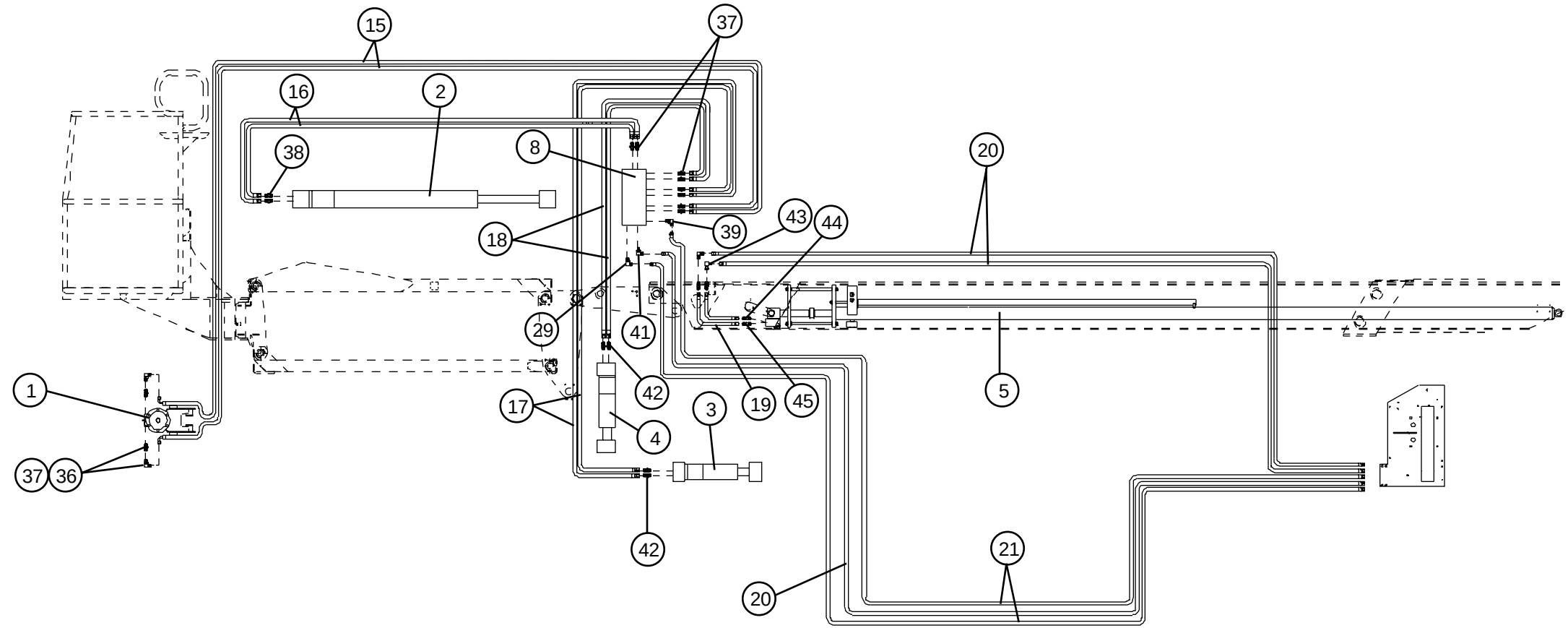
Index No.	Skyjack Part No.	Description							Units per Assy.
		1	2	3	4	5	6	7	
	706677	CYLINDER ASSEMBLY, Lock							-
1	706685	• WELDMENT, Barrel							1
2	100249	• BUSHING							2
3	706687	• SPRING							1
4	706764	• SPACER							1
5	103830	• LOCKNUT							1
6	700309	• PISTON							1
7*	104661	• SEAL, Piston							1
8*	701634	• O-RING							1
9	700310	• SPACER							1
10*	108798	• SEAL, Rod							1
11*	701963	• O-RING							1
12	700308	• GLAND							1
13*	106449	• WIPER, Rod							1
14	706680	• ROD, Cylinder							1
	706547	KIT, Seal repair							AR

FIGURE 6-23. KNUCKLE LIFT CYLINDER ASSEMBLY

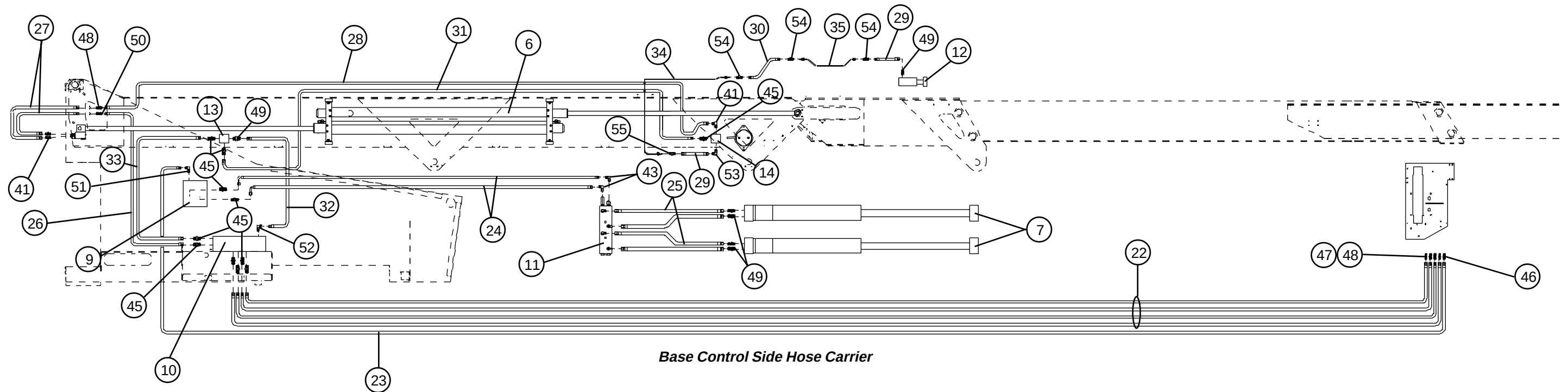
MA66-615

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
	701375	CYLINDER ASSEMBLY, Knuckle	-
1	701376	• PISTON	1
2	701288	• NUT, Lock 1-1/2 - 12	1
3*	701967	• O-RING	1
4*	701377	• SEAL, Piston	1
5*	109248	• WEAR RING, Piston	1
6	701378	• WELDMENT, Rod	1
7	701379	• WELDMENT, Barrel	1
8	701380	• GLAND	1
9*	106228	• SEAL, Rod	1
10*	700890	• WIPER, Rod	1
11*	106227	• WEAR RING, Rod	1
12*	701968	• O-RING	1
13	103208	• BUSHING, 2" x 2-3/16" x 1-1/2" lg.	4
14	707636	VALVE BLOCK (Serial Number 93225 and Above.)	1
	701460	VALVE BLOCK (Serial Number 93224 and Below.)	1
15	701635	O-RING	2
16	701954	FITTING, Connector #4orb - #4 (Serial Number 93225 and Above.)	2
	701956	FITTING, Connector #6orb - #4 (Serial Number 93224 and Below.)	2
17	701827	VALVE, Counterbalance	2
	702644	KIT, Seal repair	AR
	703873	TOOL, Cylinder assembly	AR
		* Part of Seal Repair Kit	

FIGURE 6-24. HYDRAULIC HOSE CONNECTIONS - Boom Assembly



Engine Side Hose Carrier



Base Control Side Hose Carrier

MA66-655

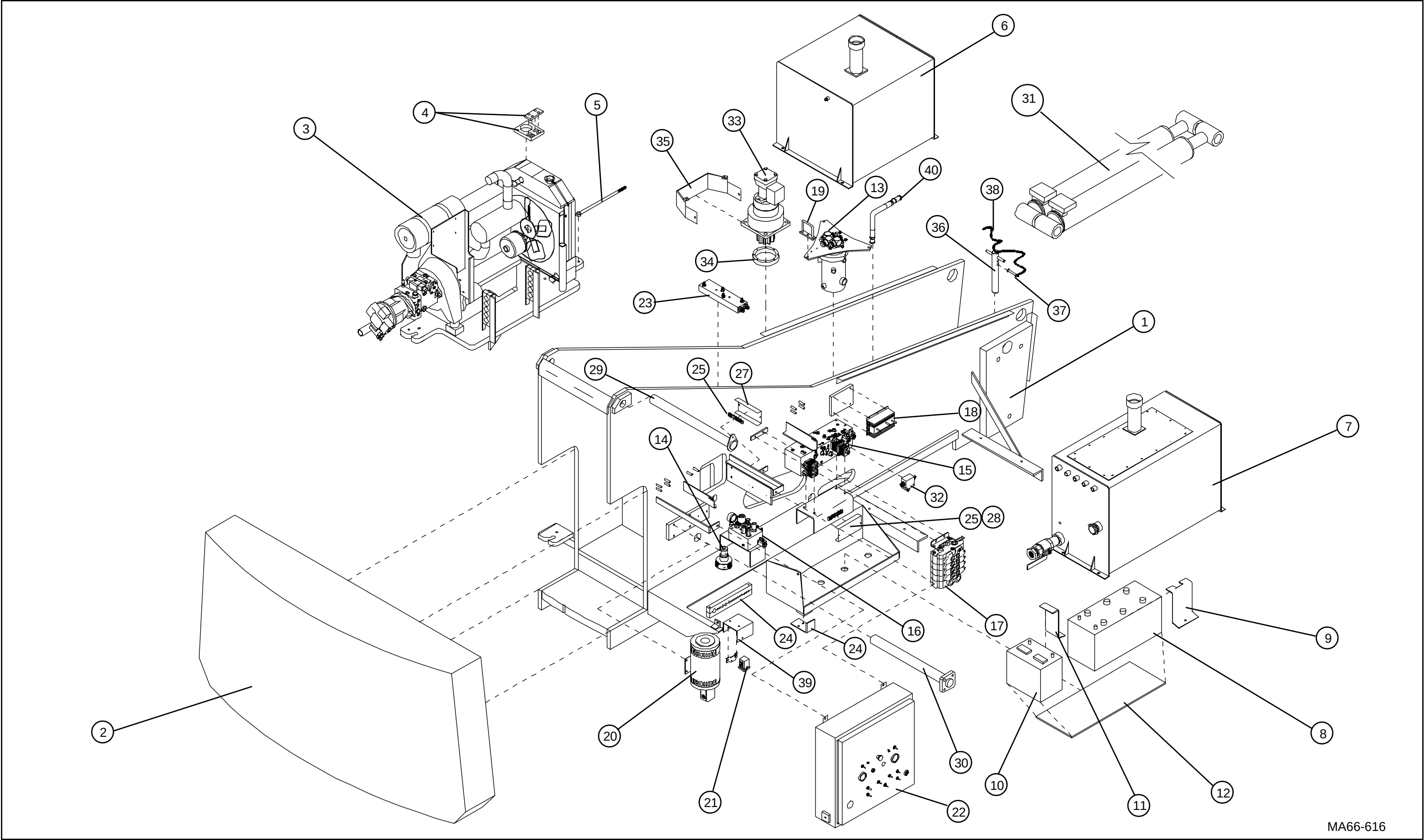
FIGURE 6-24. HYDRAULIC HOSE CONNECTIONS - Boom Assembly

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	702061	ACTUATOR, Rotary	1
2	702143	CYLINDER ASSEMBLY, Jib lift (For components, refer to Figure 6-11.)	1
3	702153	CYLINDER ASSEMBLY, Leveling (Fly Boom) (For components, refer to Figure 6-14.)	1
4	706928	CYLINDER ASSEMBLY, Leveling (Jib) (For components, refer to Figure 6-10.)	1
5	701912	CYLINDER ASSEMBLY, Fly boom (For components, refer to Figure 6-15.)	1
6	701997	CYLINDER ASSEMBLY, Mid boom dual (For components, refer to Figure 6-19.)	1
7	701375	CYLINDER ASSEMBLY, Knuckle (For components, refer to Figure 6-23.)	2
8	(Ref.)	CYLINDER ASSEMBLY, Mid boom lock	1
		MANIFOLD ASSEMBLY, Leveling (For components, refer to Figure 6-13.)	1
9	702873	VALVE ASSEMBLY, 4 Bank proportional (For components, refer to Figure 6-34.)	1
10	(Ref.)	MANIFOLD ASSEMBLY, Main (For components, refer to Figure 6-32.)	1
11	702872	MANIFOLD ASSEMBLY, Knuckle cylinder	1
12	702607	• MANIFOLD, Distribution	1
	701850	• FITTING, Elbow 90° #4orb - #4	4
	701998	• FITTING, Elbow 90° #8orb - #8	1
	702798	• FITTING, Elbow 90° #8orb - #8 long	1
	702796	• FITTING, Plug #8	2
	706677	CYLINDER ASSEMBLY, Mid Boom Lock (For components, refer to Figure 6-22.)	1
13	706688	MANIFOLD ASSEMBLY, Lock Cylinder	1
14	706979	MANIFOLD ASSEMBLY, Tee	1
15	703877	HOSE ASSEMBLY, Rotary actuator(H104 0144 00-0)	2
16	703876	HOSE ASSEMBLY, Jib cylinder (H104 0134 00-0)	2
17	704517	HOSE ASSEMBLY, Leveling cylinder (H304 0056 00-0)	2
18	703880	HOSE ASSEMBLY, Leveling cylinder (H104 0036 00-0)	2
19	704535	HOSE ASSEMBLY, Fly boom cylinder (H608 0024 00-0)	2
20	703889	HOSE ASSEMBLY, Fly boom cylinder (H108 0257 00-0)	3
21	703883	HOSE ASSEMBLY, Leveling manifold (H106 0257 00-0)	2
22	704501	HOSE ASSEMBLY, Crossover plate (H108 0687 00-0)	4
23	708340	HOSE ASSEMBLY, Crossover plate (H106 0714 00-0)	1
24	704524	HOSE ASSEMBLY, Knuckle cylinder (H508 0303 00-0)	2
25	703875	HOSE ASSEMBLY, Knuckle cylinder (H104 0036 00-0)	4

FIGURE 6-24. HYDRAULIC HOSE CONNECTIONS - Boom Assembly

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
26	703888	HOSE ASSEMBLY, Mid boom cylinder (H108 0093 00-0)	1
27	703886	HOSE ASSEMBLY, Mid boom cylinder (H108 0019 00-0)	2
28	707084	HOSE ASSEMBLY, Tee (H608 0225 00-0)	1
29	706568	HOSE ASSEMBLY, Tee (H104 0013 00-0)	2
30	707085	HOSE ASSEMBLY, Tee (H104 0015 02-0)	1
31	707086	HOSE ASSEMBLY, Lock Cylinder (H108 0344 00-0)	1
32	707087	HOSE ASSEMBLY, Lock Cylinder (H604 0013 00-0)	1
33	704534	HOSE ASSEMBLY, Lock Cylinder (H608 0022 00-0)	1
34	706717	TUBE, Hydraulic	1
35	706716	TUBE, Hydraulic	1
36	702875	FITTING, Elbow 90° #4 - #4	2
37	701954	FITTING, Connector #4orb - #4	10
38	103070	FITTING, Connector #8orb - #6	2
39	103073	FITTING, Elbow 90° #6orb - #6	1
40	102665	FITTING, Elbow 90° #8orb - #6	1
41	701998	FITTING, Elbow 90° #8orb - #8	4
42	702799	FITTING, Connector #8orb - #4	4
43	702856	FITTING, Elbow 90° #8 - #8	4
44	701959	FITTING, Bulkhead elbow 90° #8 - #8	2
45	702116	FITTING, Connector #8orb - #8	13
46	702811	FITTING, Bulkhead connector #6 - #6	1
47	703046	FITTING, Reducer #8 - #6	1
48	702598	FITTING, Bulkhead connector	5
49	701956	FITTING, Connector #6orb - #4	6
50	702597	FITTING, Bulkhead elbow 45° #8 - #8	1
51	113348	FITTING, Elbow 90° #4orb - #6	1
52	701850	FITTING, Elbow 90° #4orb - #4	1
53	701999	FITTING, Elbow 90° #6orb - #4	1
54	702599	FITTING, Bulkhead connector #4 - #4	3
55	702124	FITTING, Union #4 - #4	1
NOTE: Refer to Sandard Hose Numbering System (SECTION 5, Page 33) for explanation of hose numbering.			

FIGURE 6-25. TURRET ASSEMBLY

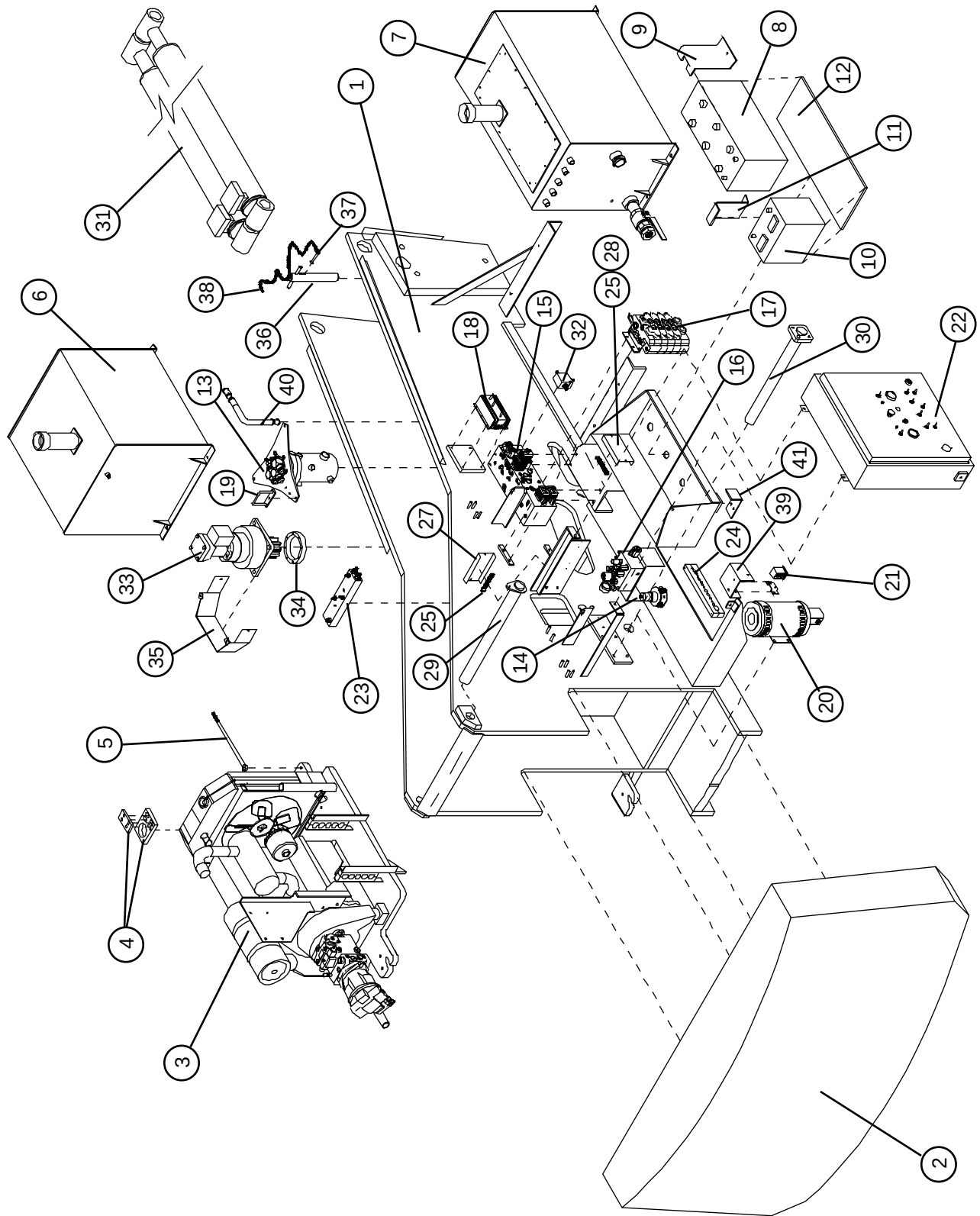


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FIGURE 6-25. TURRET ASSEMBLY

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	704345	WELDMENT, Turret	1
	703053	• BOLT, Hex-hd 3/4-10 x 5-1/2" lg.	24
	702194	• WASHER, Flat 3/4" hardened	24
2	704095	WELDMENT, Counterweight	1
	700617	• PLUG, Plastic hole	2
3	702882	ENGINE ASSEMBLY, Dual fuel (For components, refer to Figure 6-36.)	1
	703029	ENGINE ASSEMBLY, Gasoline only (For components, refer to Figure 6-36.)	1
	703159	ENGINE ASSEMBLY, Diesel (For components, refer to Figure 6-38.)	1
	704333	CAP, Swing arm	1
4	704570	PLATE, Engine swing-out clamp	1
	103909	• BOLT, Hex-hd 1/2-13 x 2" lg.	2
	700425	• WASHER, Lock 1/2"	2
	702534	WELDMENT, Engine stop rod	1
5	103909	• BOLT, Hex-hd 1/2-13 x 1-1/4"	1
	702507	• NUT, Lock 1/2-13	2
	103470	• WASHER, 1/2"	3
	702995	TANK ASSEMBLY, Fuel (For components, refer to Figure 6-27.)	1
6	103473	• BOLT, Hex-hd 3/8-16 x 1" lg.	4
	103999	• WASHER, Lock 3/8"	4
	702215	TANK ASSEMBLY, Hydraulic (For components, refer to Figure 6-28.)	1
	103473	• BOLT, Hex-hd 3/8-16 x 1" lg.	4
7	103999	• WASHER, Lock 3/8"	4
	103472	• WASHER, Flat 3/8"	4
	702032	BATTERY, 12 Volt emergency pump	1
	702709	HOLD DOWN, Emergency battery	1
8	103596	• BOLT, Hex-hd 3/8-16 x 2"	1
	103978	• NUT, Hex 3/8-16	1
	103999	• WASHER, Lock 3/8"	1
	703719	BATTERY, 12 Volt engine	1
9	702708	HOLD DOWN, Engine battery	1
	103596	• BOLT, Hex-hd 3/8-16 x 2"	1
	103978	• NUT, Hex 3/8-16	1
	103999	• WASHER, Lock 3/8"	1
10	703719	BATTERY, 12 Volt engine	1
	702708	HOLD DOWN, Engine battery	1
	103596	• BOLT, Hex-hd 3/8-16 x 2"	1
	103978	• NUT, Hex 3/8-16	1
11	103999	• WASHER, Lock 3/8"	1
	702788	LINER, Battery tray	1
	702865	MANIFOLD ASSEMBLY, Rotary (For components, refer to Figure 6-29.)	1
	101632	• BOLT, Hex-hd 3/8-16 x 3/4" lg.	3
12	103472	• WASHER, Flat 3/8"	3
	103999	• WASHER, Lock 3/8"	3
	700552	SWITCH, Tilt	1
	700583	• NUT, Lock 1/4-20	2
13	103856	• BOLT, Hex-hd 1/4-20 x 3/4" lg.	2
	702864	MANIFOLD ASSEMBLY, Main (For components, refer to Figure 6-31.)	1
	702542	• BOLT, Hex-hd 3/8-16 x 6" lg.	2
	103472	• WASHER, Flat 3/8"	2
14	103999	• WASHER, Lock 3/8"	2
	103978	• NUT, Hex 3/8-16	2
	706512	MANIFOLD ASSEMBLY, Brake (Serial Number 93265 and Above.) (For components, refer to Figure 6-30.)	1
	703097	MANIFOLD ASSEMBLY, Brake (Serial Number 93264 and Below.) (For components, refer to Figure 6-31.)	1
Parts List Continued on Page 53.			

FIGURE 6-25. TURRET ASSEMBLY

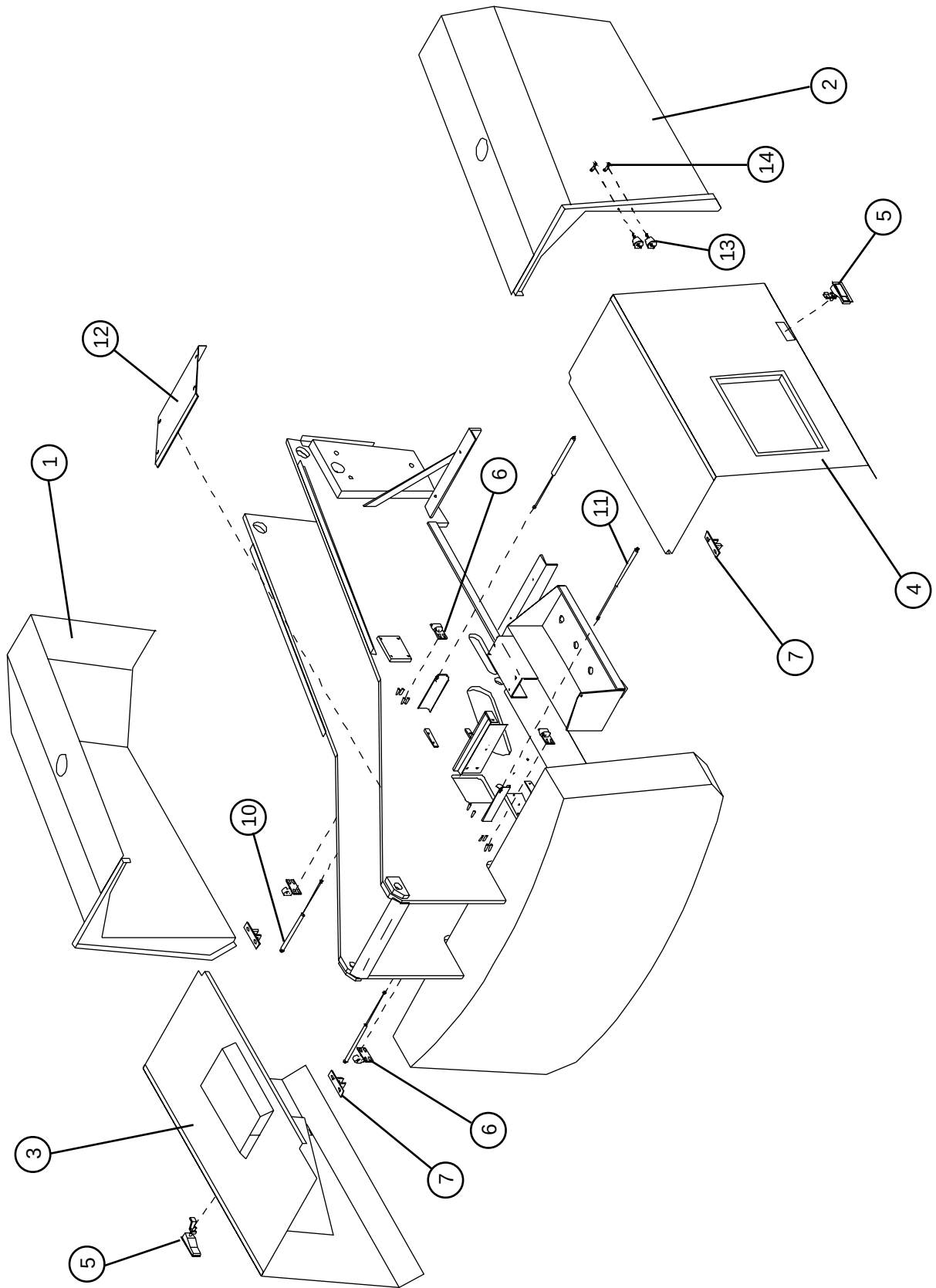


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FIGURE 6-25. TURRET ASSEMBLY

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
		Parts List Continued from Page 51.	
17	103915	• BOLT, Hex-hd 3/8-16 x 3-1/2" lg.	2
	103472	• WASHER, Flat 3/8"	2
	103999	• WASHER, Lock 3/8"	2
	702873	ASSEMBLY, Valve stack (For components, refer to Figure 6-34.)	1
18	101632	• BOLT, Hex-hd 3/8-16 x 3/4" lg.	4
	103999	• WASHER, Lock 3/8"	4
	702532	ISOLATOR, 120 Amp battery	1
	700838	• BOLT, Soc-hd #8-32 x 3/8" lg.	4
19	702652	WELDMENT, Hose ring	1
20	702614	PUMP/MOTOR ASSEMBLY, Emergency lowering	1
	703181	• PUMP, Emergency lowering	1
	703182	• MOTOR, Emergency lowering	1
	106052	• COUPLER	1
	103845	• BOLT, 5/16 -18 x 1/2" lg.	4
	103404	• WASHER, Lock 5/16"	4
21	703058	CONTACTOR, 12 Volt	1
	703062	BRACKET, Contactor mounting	1
22	(Ref.)	PANEL ASSEMBLY, Turret control (For components, refer to Figure 6-35.)	1
23	702874	MANIFOLD ASSEMBLY, Lift cylinder distribution	1
	702607	• MANIFOLD, Distribution	1
	701850	• FITTING, Elbow 90° #8orb - #8	4
	702796	• FITTING, Hex-hd plug #8	2
24	702116	• FITTING, Connector #8orb - #8	2
	702730	CABLE HOLD DOWN	1
	103863	• BOLT, Hex-hd 1/4-20 x 3-1/2" lg.	2
	700583	• NUT, Lock 1/4-20	2
25	103011	TERMINAL STRIP, Large	2
26	702459	BACK PLATE, Terminal strip (Not Shown)(Serial Number 93277 and Below)	1
27	702667	COVER, Terminal strip (Serial Number 93278 and Above)	1
28	702460	COVER, Terminal strip (Not Shown)(Serial Number 93277 and Below)	1
	702667	COVER, Terminal strip	1
	103859	• BOLT, Hex-hd 1/4-20 x 1-1/2" lg.	2
	103980	• NUT, Hex 1/4-20	2
	104000	• WASHER, Lock 1/4"	2
29	704453	PIN, Boom mount	1
30	704464	PIN, Boom lift cylinder	1
31	701991	CYLINDER ASSEMBLY, Boom lift (For components, refer to Figure 6-39.)	2
32	706688	MANIFOLD, Lock cylinder assembly	1
	702674	• BOLT, Hex-hd 1/4-20 x 3" lg.	2
	706712	• PLUG, Orifice	1
	703038	SPEED REDUCER ASSEMBLY (For components, refer to Figure 6-33.)	1
	706429	• BOLT, SHCS 5/8-11X2"	4
	103998	• WASHER, Lock 5/8"	4
	706403	• BOLT, SHSS 1/2-13x2.5"	6
	103471	• NUT, Hex 1/2-13	6
34	706360	ECCENTRIC, Planetary	1
35	704571	GUARD, Ring gear	1
36	706372	PIN WELDMENT, Turret lock	1
37	703658	PIN, Hitch	1
38	105807	LANYARD	2
39	703582	COVER, Emergency pump contactor	1
40	(Ref.)	HOSE ASSEMBLY, Grease	
	706423	• HOSE	1
	703100	• COUPLE	1
	700509	• ZERT	1
41	704059	PLATE, Latch controls (Serial Number 93278 and Above)	1

FIGURE 6-26. TURRET COVERS AND DOORS

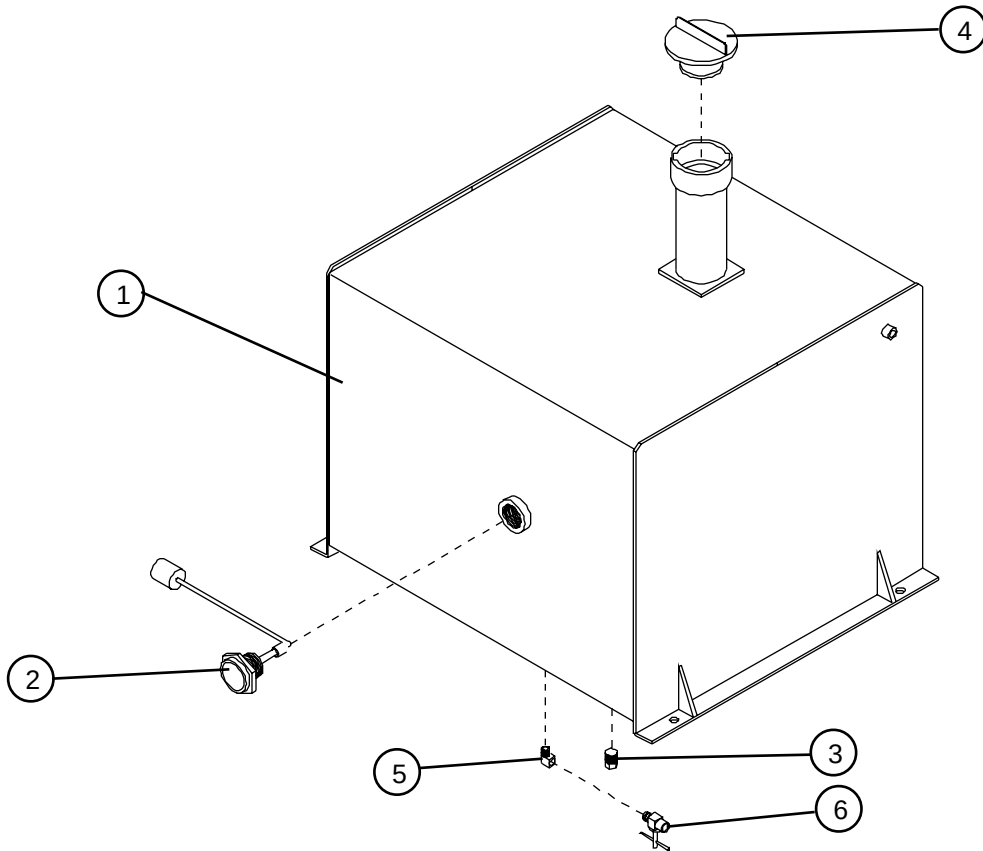


MA66-617

FIGURE 6-26. TURRET COVERS AND DOORS

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	702493	COVER WELDMENT, Fuel tank	1
	702862	• SCREW, Self tapping 1/4-14 x 1" lg.	9
	703094	• COVER, Shim 1/4" lg.	AR
2	702492	COVER WELDMENT, Hydraulic tank	1
	702862	• SCREW, Self tapping 1/4-14 x 1" lg.	9
	703094	• COVER, Shim 1/4" lg.	AR
3	703954	WELDMENT, Engine door (gas/dual fuel)	1
	703953	WELDMENT, Engine door (diesel)	1
	103873	• BOLT, Hex-hd 3/8-16 x 2-1/2" lg.	2
	104606	• NUT, Lock 3/8-16	2
4	710188	• BUMPER, Rubber	4
	703955	WELDMENT, Control door	1
	103873	• BOLT, Hex-hd 3/8-16 x 2-1/2" lg.	2
	104606	• NUT, Lock 3/8-16	2
5	710188	• BUMPER, Rubber	4
	702746	LATCH, Door	2
6	704108	WELDMENT, Hinge	4
7	704090	WELDMENT, Hinge clevis	4
8	703633	WELDMENT, Engine side right shock mount (Not Shown) (Serial Number 93277 and Below)	1
	703634	WELDMENT, Engine side left shock mount (Not Shown) (Serial Number 93277 and Below)	1
9	703639	WELDMENT, Control side right shock mount (Not Shown) (Serial Number 93277 and Below)	1
	703640	WELDMENT, Control side left shock mount (Not Shown) (Serial Number 93277 and Below)	1
10	703687	SHOCK, Gas charged 250 lb.	2
	702815	STUD, Ball 10mm	2
	703689	STUD, Ball 13mm	2
	703691	CLIP, Safety 250 lb.	2
11	703688	SHOCK, Gas charged 190 lb.	2
	702815	STUD, Ball 10mm	2
	703689	STUD, Ball 13mm	2
	703690	CLIP, Safety 190 lb.	2
12	704494	COVER, Turret center	1
13	102600	SWITCH, Main disconnect	2
14	108714	KIT, Lever lockout	2
NOTE A - Be sure to include Model and Serial Numbers when ordering replacement doors. NOTE B - Decals and labels must be ordered separately.			

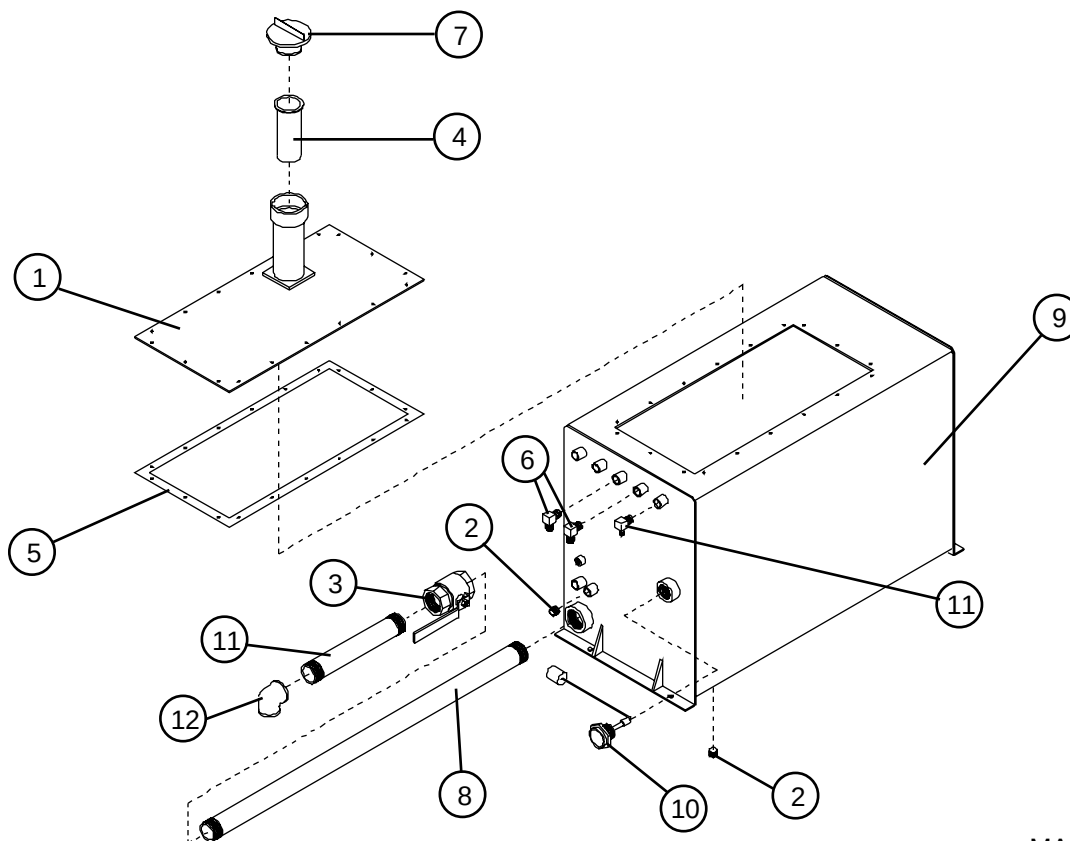
FIGURE 6-27. FUEL TANK ASSEMBLY



MA66-618

Index No.	Skyjack Part No.	Description							Units per Assy.
		1	2	3	4	5	6	7	
	702995	TANK ASSEMBLY, Fuel							-
1	702996	• TANK WELDMENT, Fuel							1
2	703002	• LEVEL GAUGE, Fuel tank							1
3	103339	• PLUG, 3/4" Magnetic							1
4	703937	• FILL CAP, Fuel tank							1
5	702236	• FITTING, Elbow 90° 1/4NPT female-1/4NPT male							1
6	708601	• FITTING, Mini ball valve							1

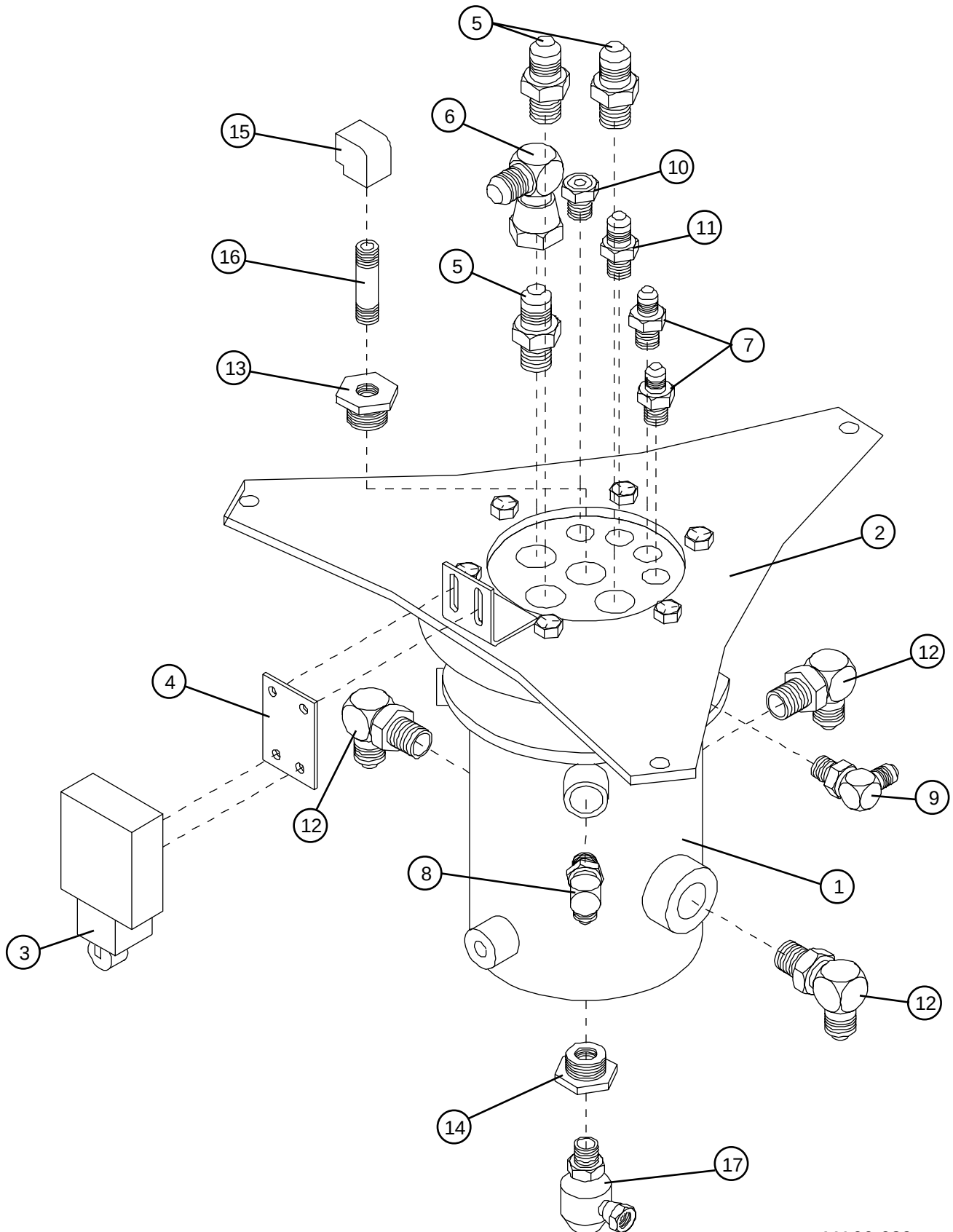
FIGURE 6-28. HYDRAULIC TANK ASSEMBLY



MA66-619

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
	702215	TANKASSEMBLY, Hydraulic	-
1	702289	• COVER WELDMENT, Hydraulic tank	1
	103855	•• BOLT, Hex-hd 1/4-20 x 1/2" lg.	18
	103995	•• WASHER, Flat 1/4"	18
	104000	•• WASHER, Lock 1/4"	18
2	103339	• PLUG, 3/4" Magnetic	2
3	701885	• PIPE FITTING, 2" Ball valve	1
4	702290	• STRAINER, Hydraulic tank	1
5	702505	• GASKET, Hydraulic tank cover	1
6	702541	• FITTING, Elbow 90° 3/4NPT-#12	2
7	702291	• FILL CAP, Hydraulic tank	1
8	702560	• FITTING, 2" Close x 6" lg.	1
9	702214	• TANK WELDMENT, Hydraulic	1
10	703002	• LEVEL GAUGE, Hydraulic tank	1
11	703036	• FITTING, Elbow 90° 3/4NPT-#6	1
12	702563	• FITTING, Pipe 2" 90° Elbow	1
13	707349	• FITTING, Pipe, Nipple, 2 NPT x 12	1

FIGURE 6-29. ROTARY MANIFOLD ASSEMBLY



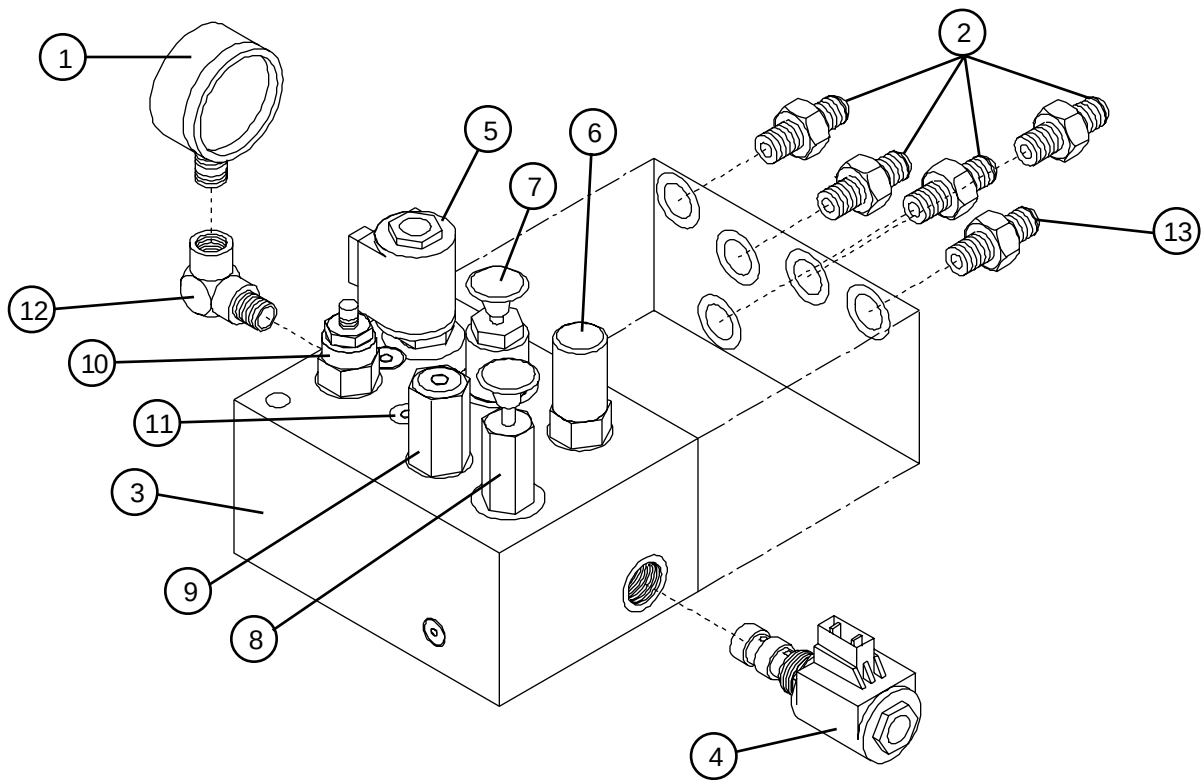
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FIGURE 6-29. ROTARY MANIFOLD ASSEMBLY

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
	702865	ASSEMBLY, Rotary manifold	-
1	704343	MANIFOLD, Rotary	1
2	704961	PLATE WELDMENT, Rotary Manifold mounting	1
	101632	• BOLT, 3/8"x3/4" lg.	6
	103999	• WASHER, Lock 3/8"	6
3	706294	SWITCH, Directional sensing limit	1
	105621	• BOLT, Mach-hd #10-32x1" lg.	2
	104694	• WASHER, Flat #10	2
	104185	• WASHER, Lock #10	2
	104103	• NUT, Hex #10-24	2
4	706332	PLATE, Limit Switch mounting	1
	105621	• BOLT, Mach-hd #10-32x1" lg.	2
	104694	• WASHER, Flat #10	2
	104185	• WASHER, Lock #10	2
	104103	• NUT, Hex #10-24	2
5	702118	FITTING, Connector #12orb - #12	3
6	702119	FITTING, Elbow 90° female #12 - #12	1
7	701956	FITTING, Connector #6orb - #4	2
8	103073	FITTING, Elbow 90° #6orb - #6	1
9	701999	FITTING, Elbow 90° #6orb - #4	2
10	104437	FITTING, Plug #6	2
11	103069	FITTING, Connector #6orb - #6	1
12	702117	FITTING, Elbow 90° #12orb - #12	3
		NOTE - Items 13 thru 17 are for machines with Dual Fuel Option only.	
13	702820	FITTING, Adaptor 3/4NPT - 1/4NPT	1
14	702821	FITTING, Adaptor 3/4NPT - 3/8NPT	1
15	702500	FITTING, Elbow 90° female 1/4NPT-1/4NPT	1
16	702499	FITTING, Pipe nipple 1/4NPT x 2" lg.	1
17	702239	FITTING, Brass swivel #6orb - #4	1

NOTES

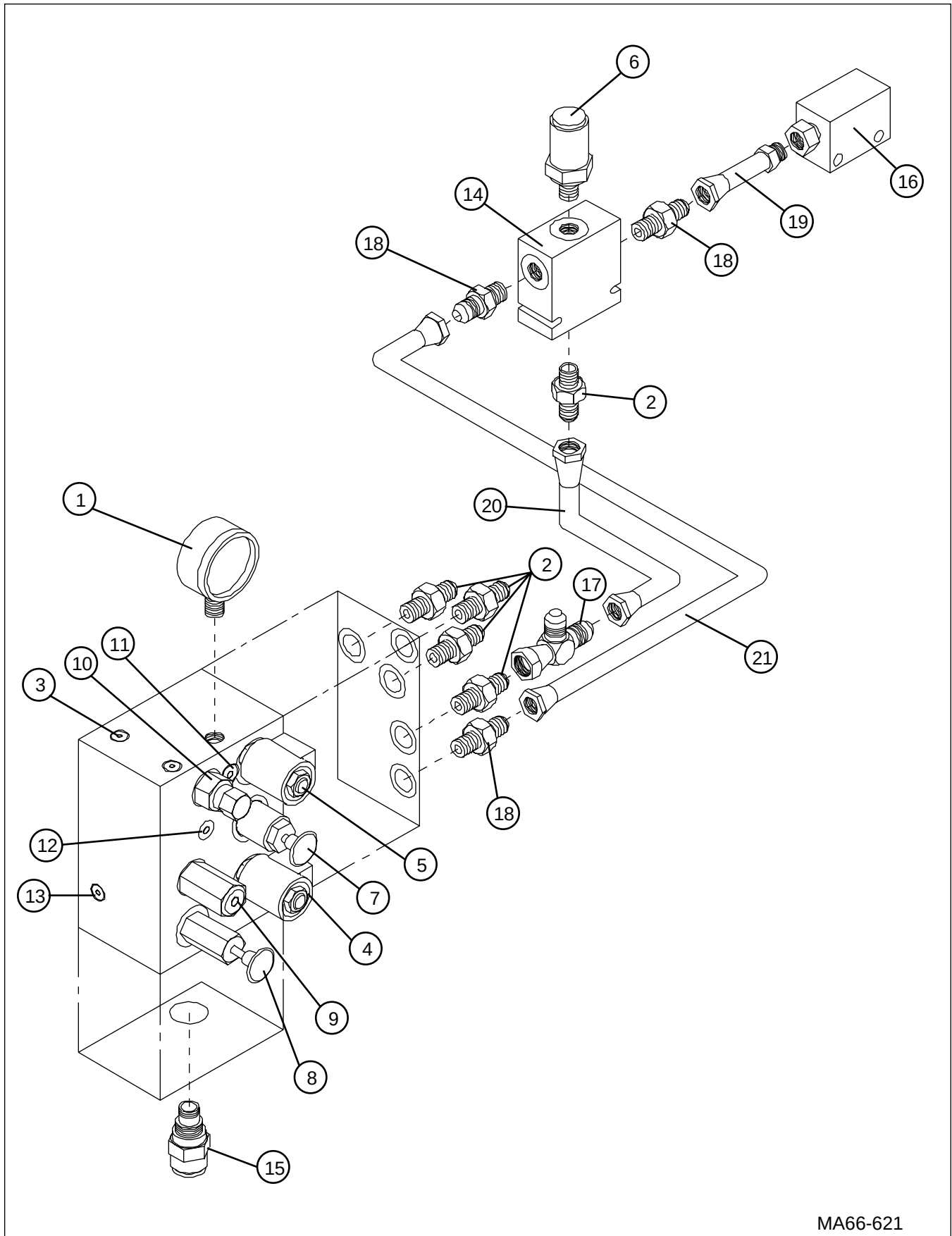
FIGURE 6-30. BRAKE MANIFOLD ASSEMBLY (Serial Number 93265 and Above.)



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Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
	706512	ASSEMBLY, Brake manifold	-
1	703725	• GAUGE, Pressure 800 psi	1
2	103069	• FITTING, Connector #6orb - #6	4
	704716	• MANIFOLD, Brake	1
3	703188	•• BLOCK, Manifold	1
4	703189	•• VALVE, Brake	1
	703803	••• COIL, 12 Volt	1
5	703190	•• VALVE, Tilt braking	1
	703803	••• COIL, 12 Volt	1
6	703191	•• VALVE, Pressure reducing	1
7	703192	•• VALVE, Brake release override	1
8	703193	•• VALVE, Brake release hand pump	1
9	703194	•• VALVE, Adjustable relief	1
10	706026	•• VALVE, Needle	1
11	703197	•• VALVE, Shuttle	2
12	704773	•• FITTING, Elbow 1/4" male to 1/4" female	1
13	701956	• FITTING, Connector #6orb - #4	1
	700764	•• PLUG, SAE #2	21
	700765	•• PLUG, SAE #4	3
	104437	•• PLUG, SAE #6	5

FIGURE 6-31. BRAKE MANIFOLD ASSEMBLY (Serial Number 93266 and Below.)

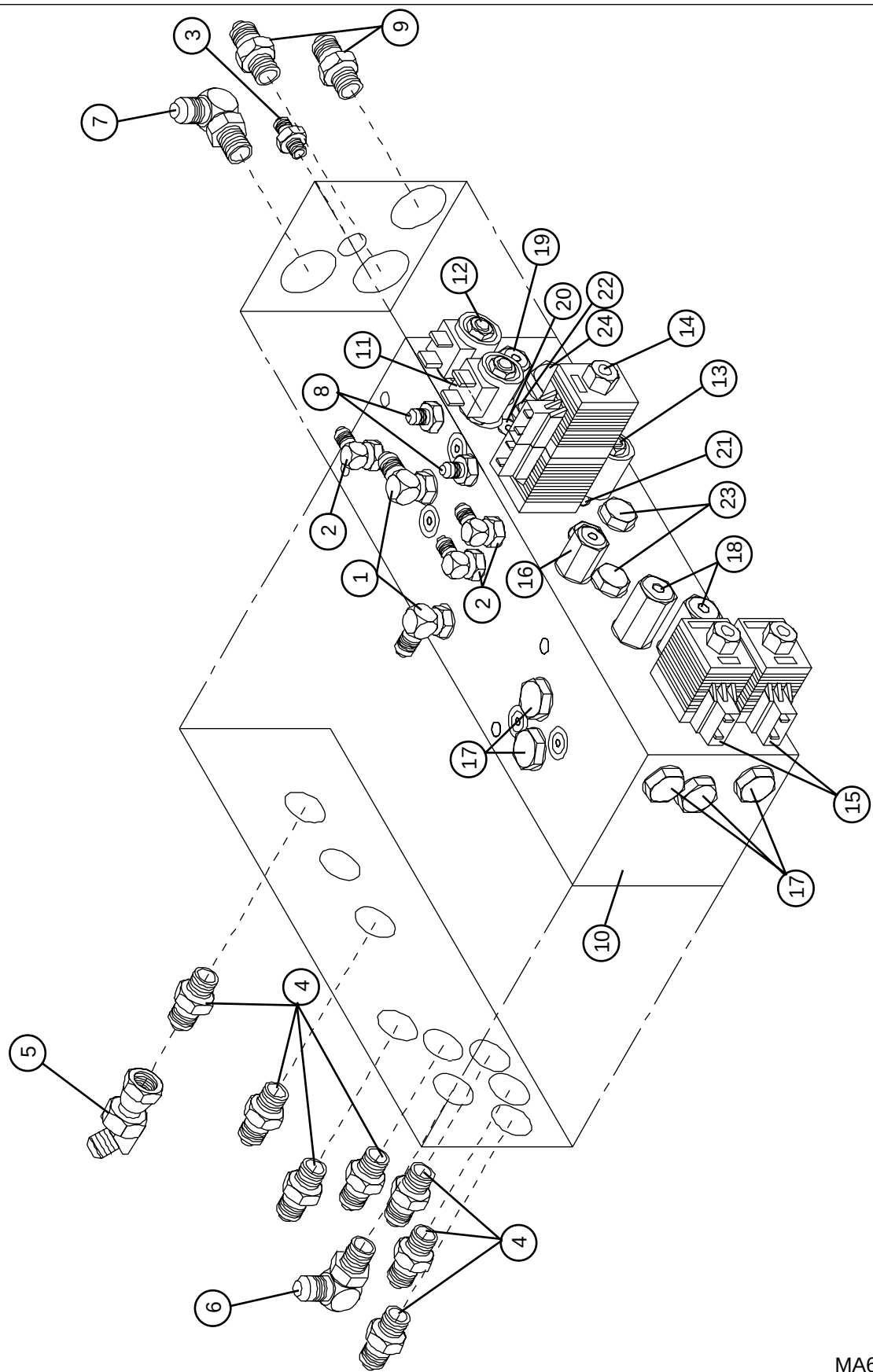


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FIGURE 6-31. BRAKE MANIFOLD ASSEMBLY (Serial Number 93264 and Below.)

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
	703097	ASSEMBLY, Brake manifold	-
1	703725	• GAUGE, Pressure 800 psi	1
2	103069	• FITTING, Connector #6orb - #6	5
	703370	• MANIFOLD, Brake	1
3	703188	•• BLOCK, Manifold	1
4	703189	•• VALVE, Brake	1
	703803	••• COIL, 12 Volt	1
5	703190	•• VALVE, Tilt braking	1
	703803	••• COIL, 12 Volt	1
6	703191	•• VALVE, Pressure reducing	1
7	703192	•• VALVE, Brake release override	1
8	703193	•• VALVE, Brake release hand pump	1
9	703194	•• VALVE, Adjustable relief	1
10	706026	•• VALVE, Needle	1
11	706025	•• PLUG, Pipe 1/16 NPT	1
12	703197	•• VALVE, Shuttle	2
13	703198	•• VALVE, Check	1
	700764	•• PLUG, SAE #2	21
	700765	•• PLUG, SAE #4	3
	104437	•• PLUG, SAE #6	5
14	706023	BODY, C10-3 5000 PSI	1
15	706024	PLUG, Cavity C10-3	1
16	704949	VALVE, Shuttle	1
17	702382	FITTING, Hydraulic Tee #6 female-#6-#6	1
18	701956	FITTING, Hydraulic #6orb-#6	3
19	706553	ASSEMBLY, Hose (H2204-0101-00-0)	1
20	703876	ASSEMBLY, Hose (H104 0036-00-0)	1
21	706552	ASSEMBLY, Hose (H606-0036-00-0)	1
NOTE: Refer to Sandard Hose Numbering System (SECTION 5, Page 33) for explanation of hose numbering.			

FIGURE 6-32. MAIN MANIFOLD ASSEMBLY

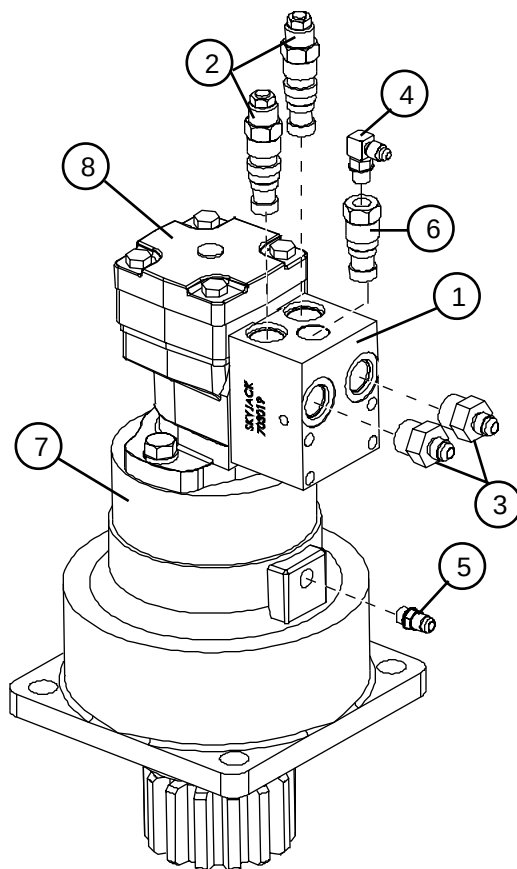


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FIGURE 6-32. MAIN MANIFOLD ASSEMBLY

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
	702864	MANIFOLD ASSEMBLY, Main	-
1	103073	• FITTING, Elbow 90° #6orb - #6	2
2	701850	• FITTING, Elbow 90° #4orb - #4	3
3	701954	• FITTING, Connector #4orb - #4	1
4	702116	• FITTING, Connector #8orb - #8	7
5	702813	• FITTING, Elbow 45° swivel #8 - #8	1
6	701998	• FITTING, Elbow 90° #8orb - #8	1
7	702117	• FITTING, Elbow 90° #12orb - #12	1
8	103322	• FITTING, Connector #4orb - #6	2
9	702118	• FITTING, Connector #12orb - #6	2
	701753	• MANIFOLD, Main	1
10	703806	•• BLOCK, Manifold	1
11	703190	•• VALVE, Load sense dump	1
	703803	••• COIL, 12 Volt	1
12	703190	•• VALVE, High speed drive	1
	703803	••• COIL, 12 Volt	1
13	703814	•• VALVE, Steering dump	1
	703803	••• COIL, 12 Volt	1
14	703812	•• VALVE, Steering	1
	703805	••• COIL, 12 Volt	2
15	703808	•• VALVE, Extension sequencing	2
	703805	••• COIL, 12 Volt	1
16	703807	•• VALVE, Emergency pump relief	1
17	703809	•• VALVE, Check	5
18	703810	•• VALVE, Extension pressure reducing	2
19	703813	•• VALVE, High speed drive relief	1
20	703197	•• VALVE, Shuttle	3
21	703811	•• ORIFICE, .080 Dia.	1
22	703815	•• VALVE, Check	2
23	703816	•• VALVE, Shuttle	2
24	703817	•• VALVE, Check	1
	700764	•• PLUG, SAE #2	9
	700765	•• PLUG, SAE #4	45
	104437	•• PLUG, SAE #6	1

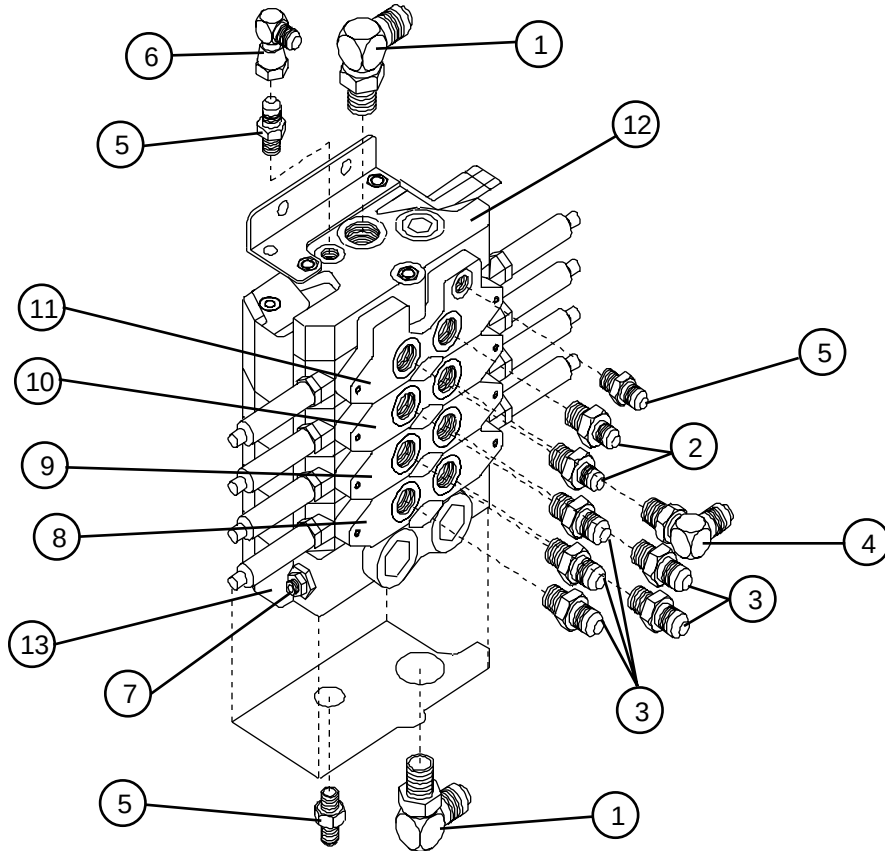
FIGURE 6-33 SPEED REDUCER ASSEMBLY



703038

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	703038	ASSEMBLY, Speed reducer	
	703019	• MANIFOLD, Rotation drive motor	1
	707809	• BOLT, SHCS 5/16 - 18 x 3.0 grade 5	4
	103404	• WASHER, Flat 5/16 SAE	4
	704230	KIT, SEAL	1
2	706384	• VALVE, Counter balance	2
3	103307	• FITTING, Hydraulic 6400-6-10	2
4	701850	• FITTING, Hydraulic 6801-4	1
5	701954	• FITTING, Hydraulic 6400-4	1
6	703030	• VALVE, Shuttle cartridge	1
-	710869	• ASSEMBLY,Speed reducer/Hydraulic motor	1
7	702989	•• SPEED REDUCER	1
	704222	••• Gasket	1
	103909	•• BOLT, HHCS 1/2 - 13 x 1.25	2
	103470	•• WASHER, Lock 1/2	2
	702992	•• MOTOR, Hydraulic	1
8	704237	KIT, SEAL	1
	704504	ASSEMBLY, Hose (H1204 0009 00-0),(Not shown)	1
	NOTE: Refer to Sandard Hose Numbering System (SECTION 5, Page 33) for explanation of hose numbering.		

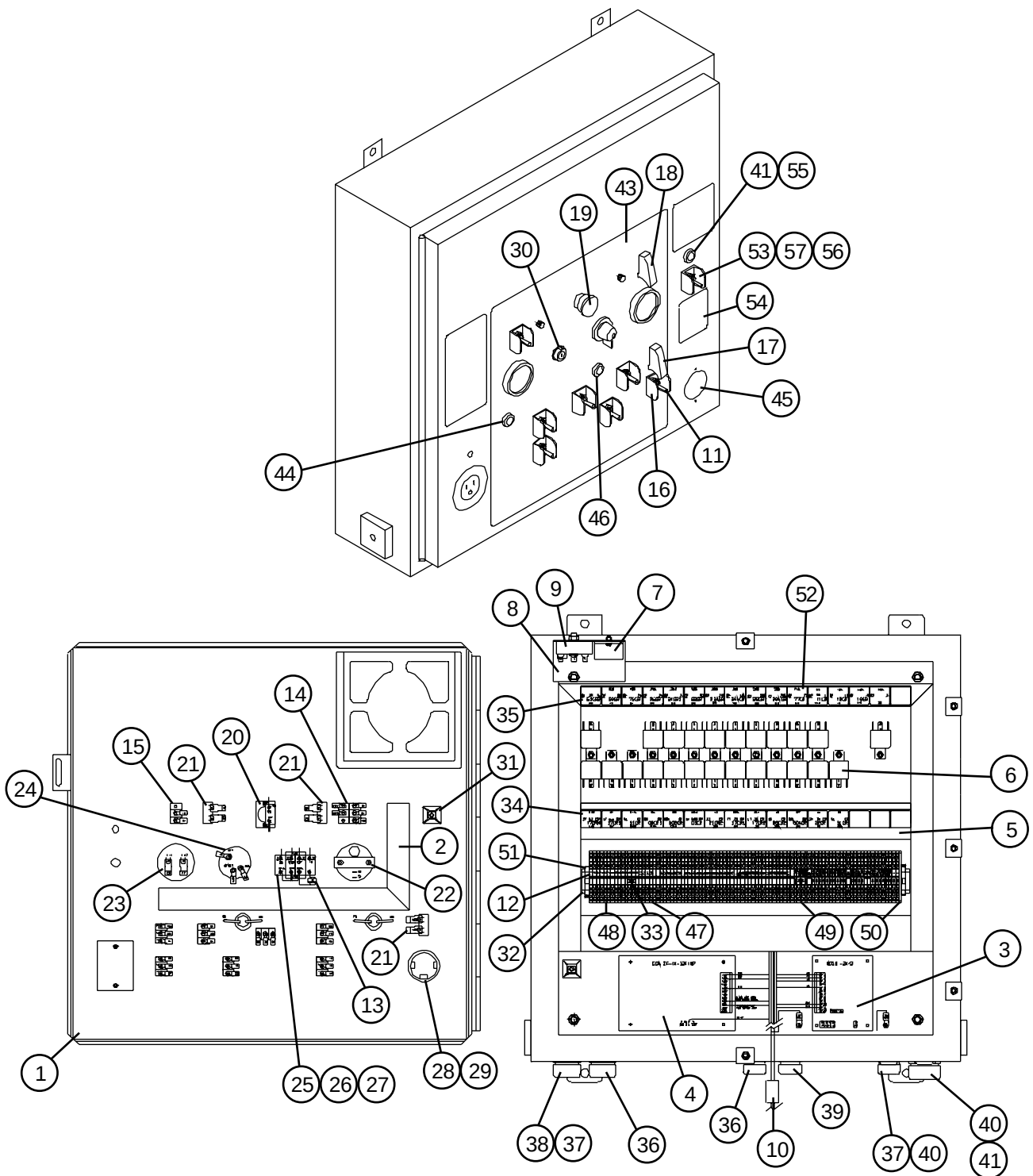
FIGURE 6-34. 4 BANK PROPORTIONAL VALVE ASSEMBLY



MA66-623

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
	702873	ASSEMBLY, 4 Bank proportional valve	-
1	702117	• FITTING, Elbow 90° #12orb - #12	2
2	103070	• FITTING, Connector #8orb - #6	2
3	702116	• FITTING, Connector #8orb - #8	5
4	701998	• FITTING, Elbow 90° #8orb - #8	1
5	103322	• FITTING, Connector #4orb - #6	3
6	702761	• FITTING, Elbow, swivel nut #6orb - #6	1
(Ref.)	702112	• VALVE, Proportional 4 bank	1
7	703818	• VALVE, Pilot pressure reducing	1
8	703819	• VALVE, Main lift	1
	703184	• PULSAR	2
9	703820	• VALVE, Knuckle	1
	703184	• PULSAR	2
10	703821	• VALVE, Extend/retract	1
	703184	• PULSAR	2
11	703822	• VALVE, Turret rotate	1
	703184	• PULSAR	2
12	703823	• INLET, Valve bank	1
13	703824	• OUTLET, Valve bank	1

FIGURE 6-35. BASE CONTROL/ELECTRICAL PANEL ASSEMBLY (Serial Number 93267 and Above)

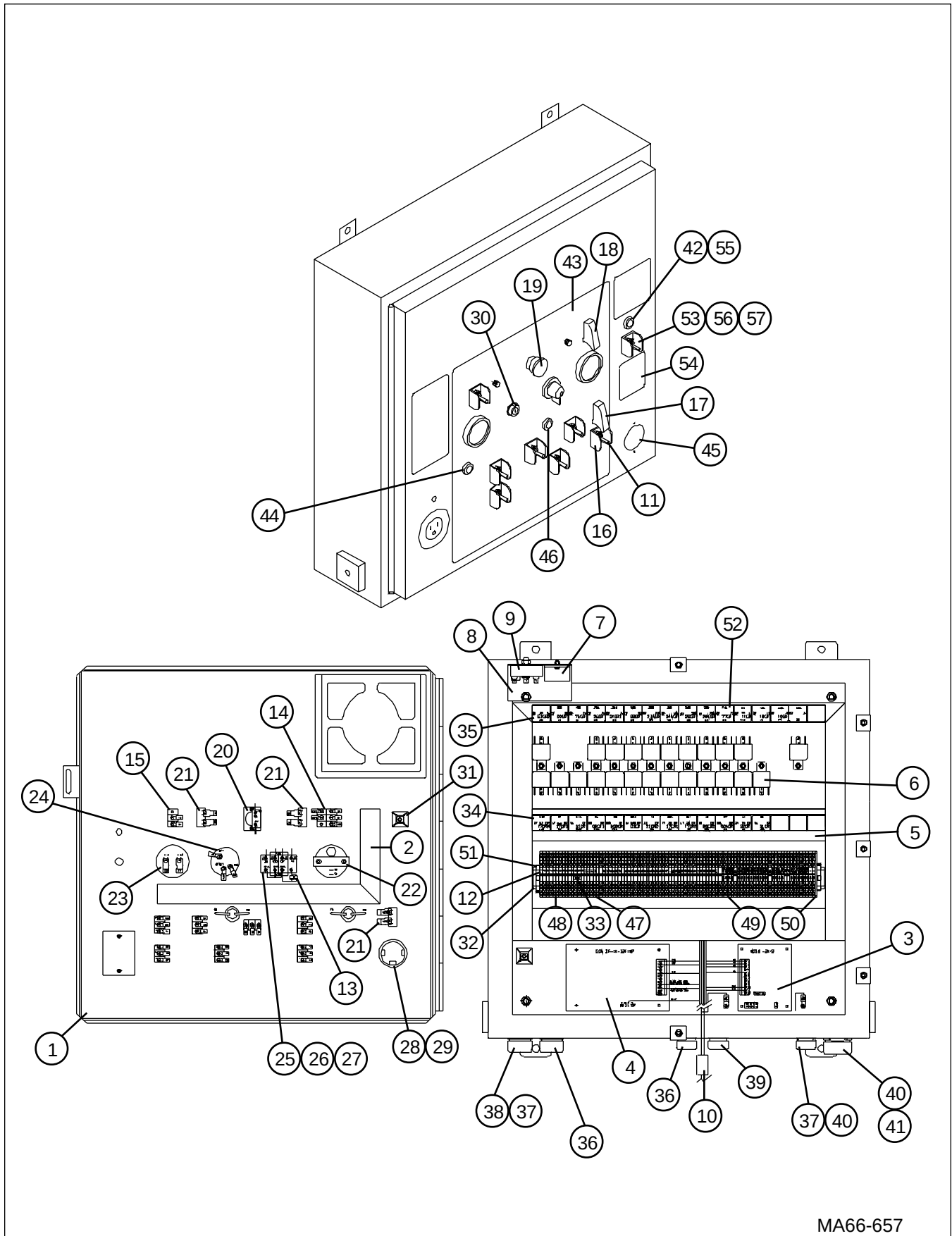


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FIGURE 6-35. BASE CONTROL/ELECTRICAL PANEL ASSEMBLY (Serial Number 93267 and Above)

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
	(Ref.)	PANEL ASSEMBLY, Base control	-
1	708728	• ENCLOSURE, Electrical	1
2	707187	• DUCT, Wire 1" x 2"	76"
	702186	•• COVER, Wire duct	76"
3	701546	• CARD, Dual solenoid driver (MDSD)	1
4	701547	• CARD, Multi purpose controller (EDA)	1
5	707020	• DUCT, Wire 2" x 2"	37"
	707188	•• COVER, Wire duct	37"
6	701943	• RELAY, 12 VDC	AR
	103962	•• BOLT, Machine #10-32x1/2"	AR
	104185	•• WASHER, Lock #10	AR
7	706649	• BUFFER, Signal	1
	103958	•• BOLT, Mach Rd Hd #8-32x3/4"	2
	103986	•• NUT, Hex #8-32	2
8	706330	• BRACKET, Relay mounting	1
9	706213	• RELAY, Time delay	1
	706349	•• BOLT, Mach Hd 1/4"-20x1 1/4"	1
	103980	•• NUT, Hex 1/4"-20	1
10	706074	• SNAP-ON FERRITE HEAD	1
11	102853	• SWITCH, Toggle 3 position momentary	7
12	708729	• MARKER, Terminal strip, (Serial Number 93267 to 93442.)	1
	711327	• MARKER, Terminal strip, (Serial Number 93443 and Above.)	1
13	102921	• DIODE, Large	4
14	703005	• SWITCH, 2 position momentary DPDT	1
15	701929	• SWITCH, Toggle 2 position momentary	1
16	707394	• GUARD, Toggle switch	7
17	701928	• GUARD, Toggle switch hinged	1
18	701927	• GUARD, Toggle switch hinged	1
19	102769	• HEAD, Emergency stop switch	1
20	103281	• BASE, N.C. Contact	1
21	702402	• BREAKER, 15 Amp circuit	3
22	704732	• METER, Volt	1
23	701925	• METER, Hour	1
24	701931	• SWITCH, Ignition	1
25	103279	• BASE, Contact 2 N.C.	1
26	103225	• CONTACT, N.C.	1
27	103141	• CONTACT, N.O.	1
28	105271	• PLUG, Recessed male 110 volt	1
29	113227	• BOOT, Rubber	1
30	102753	• HEAD, Key switch	1
	104466	•• KEY, #455	1
31	701523	• TIES, Stick on	8
32	707149	• RAIL, DIN for terminal block	1/4"
	103962	•• BOLT, Machine #10-32x1/2"	3
	104694	•• WASHER, Flat #10	3
	104185	•• WASHER, Lock #10	3
33	707148	• JUMPER, Adj. for terminal blocks	3
Parts List Continued on Page 75.			

FIGURE 6-35. BASE CONTROL/ELECTRICAL PANEL ASSEMBLY (Serial Number 93267 and Above)

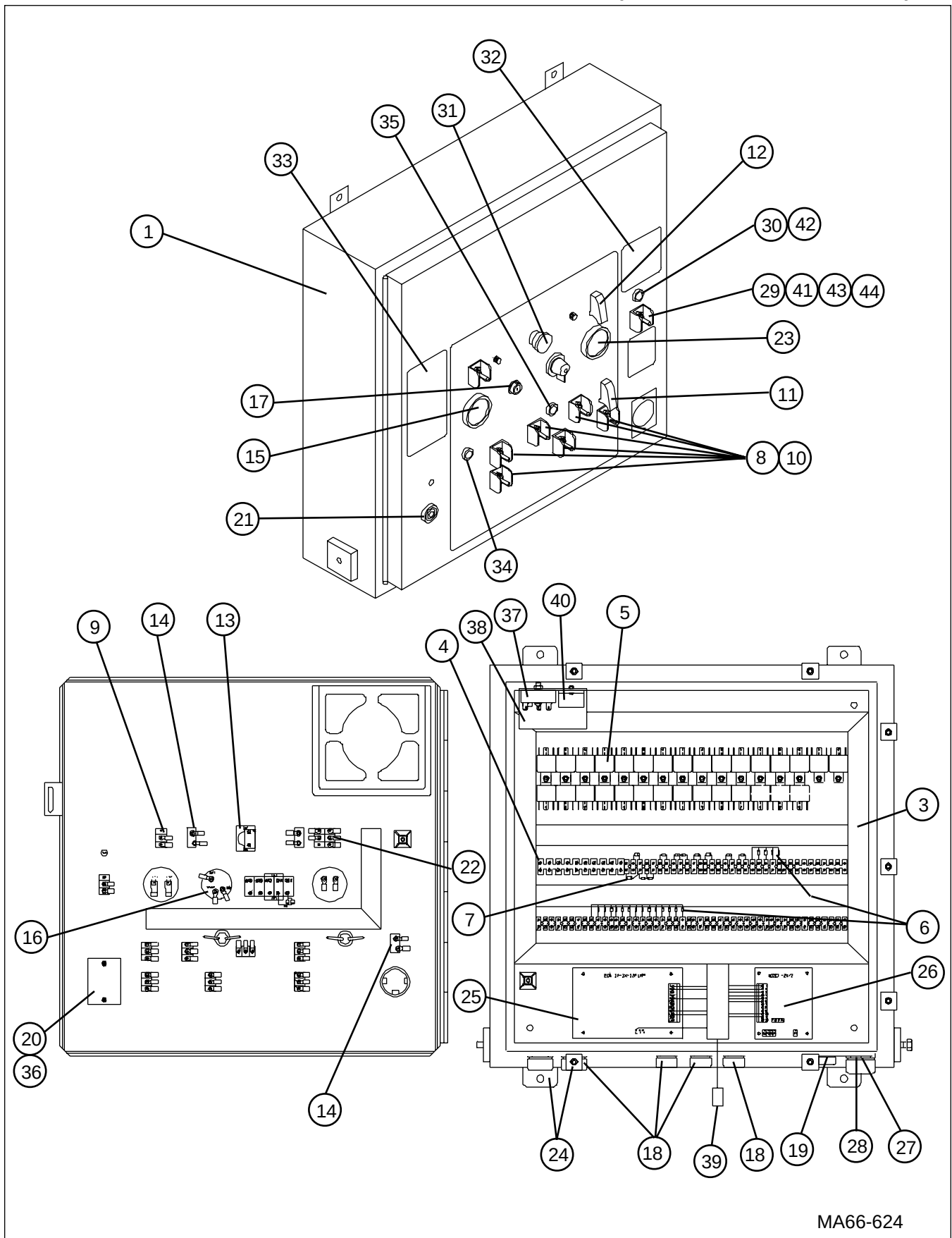


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FIGURE 6-35. BASE CONTROL/ELECTRICAL PANEL ASSEMBLY (Serial Number 93267 and Above)

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
		Parts List Continued from Page 73.	
34	703948	• LABEL, Ground control - lower relays	1
35	703949	• LABEL, Ground control - upper relays	1
36	703077	• STRAIN RELIEF, 3/4"	3
37	103036	• STRAIN RELIEF, Strait plastic	2
38	700159	• PLUG, Knockout 1-1/8"	1
39	103041	• STRAIN RELIEF, 5/8"	1
40	102956	• PLUG, Knockout 7/8"	2
41	702613	• STRAIN RELIEF, Steel 1-1/8"	1
42	701445	• PLUG, Knockout 3/8"	1
43	703762	• LABEL, Control panel	1
44	701935	• LIGHT, Pilot, Green	1
	703185	•• BULB, 12 Volt #1893	1
45	703572	• COVER, 110V outlet	1
	700841	•• BOLT, Mach Hd #6-32x1/2"	2
	103985	•• NUT, Hex #6-32	2
46	701934	• LIGHT, Pilot, Red	1
	703185	•• BULB, 12 Volt #1893	1
47	707143	• TERMINAL BLOCK, Thru	57
48	707144	• TERMINAL BLOCK, Ground	5
49	707145	• TERMINAL BLOCK, Diode	26
50	707146	• PLATE, End	1
51	707147	• END, Stop	2
52	703389	• LABEL, Lower control box (Gas Only)	1
53	702262	• PLUG, Knockout 1/2"	1
		Items 55 thru 58 are for Machines with Diesel Option.	
54	703458	• LABEL, Glow plug	1
55	703720	• LIGHT, Indicator amber	1
56	701929	• SWITCH, Toggle 2 position momentary	1
57	707394	• GUARD, Toggle switch	1

FIGURE 6-35. BASE CONTROL/ELECTRICAL PANEL ASSEMBLY (Serial Number 93266 and Below)



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FIGURE 6-35. BASE CONTROL/ELECTRICAL PANEL ASSEMBLY (Serial Number 93266 and Below)

Index No.	Skyjack Part No.	Description	Units per Assy.
	(Ref.)	ASSEMBLY, Base control panel	-
1	703067	• ENCLOSURE, Electrical	1
2	706421	• DUCT, Wire	134"
	702186	• COVER, Wire duct	134"
3	103012	• STRIP, Terminal, small	7
4	103011	• STRIP, Terminal, large	1
5	701943	• RELAY, 12 Volt sealed (dual fuel)(See Note)	AR
	701943	• RELAY, 12 Volt sealed (gas)(See Note)	AR
	701943	• RELAY, 12 Volt sealed (diesel)(See Note)	AR
6	700166	• DIODE, 1 Amp/400PIV	25
7	102921	• DIODE, 6 Amp/1000PIV	6
8	102853	• SWITCH, Toggle 3 position momentary	7
9	701929	• SWITCH, Toggle 2 position momentary	1
10	111181	• GUARD, Toggle switch	7
11	701928	• GUARD, Toggle switch hinged	1
12	701927	• GUARD, Toggle switch hinged	1
13	(Ref.)	• ASSEMBLY, Emergency stop switch	1
	102769	• HEAD, Emergency stop switch	1
	103281	• BASE, N.C. Contact	1
14	702402	• BREAKER, 15 Amp circuit	3
15	701925	• METER, Hour	1
16	701931	• SWITCH, Ignition	1
17	(Ref.)	• ASSEMBLY, Key switch	1
	102753	• HEAD, Key switch	1
		• KEY, #455	1
	103279	• BASE, Contact 2 N.C.	1
	103141	• CONTACT, N.O.	2
	103225	• CONTACT, N.C.	1
18	103041	• STRAIN RELIEF, 5/8"	3
19	103036	• STRAIN RELIEF, Strait plastic	2
20	700159	• PLUG, Knockout 1-1/8"	1
21	105271	• PLUG, Recessed male 110 volt	1
	113227	• BOOT, Rubber	1
22	703005	• SWITCH, 2 position momentary DPDT	1
23	701926	• METER, Amperage	1
24	703077	• STRAIN RELIEF, 3/4"	1
25	701547	• CARD, Multi purpose controller (EDA)	1
26	701546	• CARD, Dual solenoid driver (MDSD)	1
27	102956	• PLUG, Knockout 7/8"	3
28	702613	• STRAIN RELIEF, Steel 1-1/8"	1
29	702262	• PLUG, Knockout 1/2"	1
30	701445	• PLUG, Knockout 3/8"	1
31	706366	• LABEL, Control panel	1
32	702737	• LABEL, Emergency lowering	1
33	702738	• LABEL, Manual stowing	1
34	701935	• LIGHT, Indicator green	1
35	701934	• LIGHT, Indicator red	1
Parts List Continued on Page 79.			

FIGURE 6-35. BASE CONTROL/ELECTRICAL PANEL ASSEMBLY (Serial Number 93266 and Below)

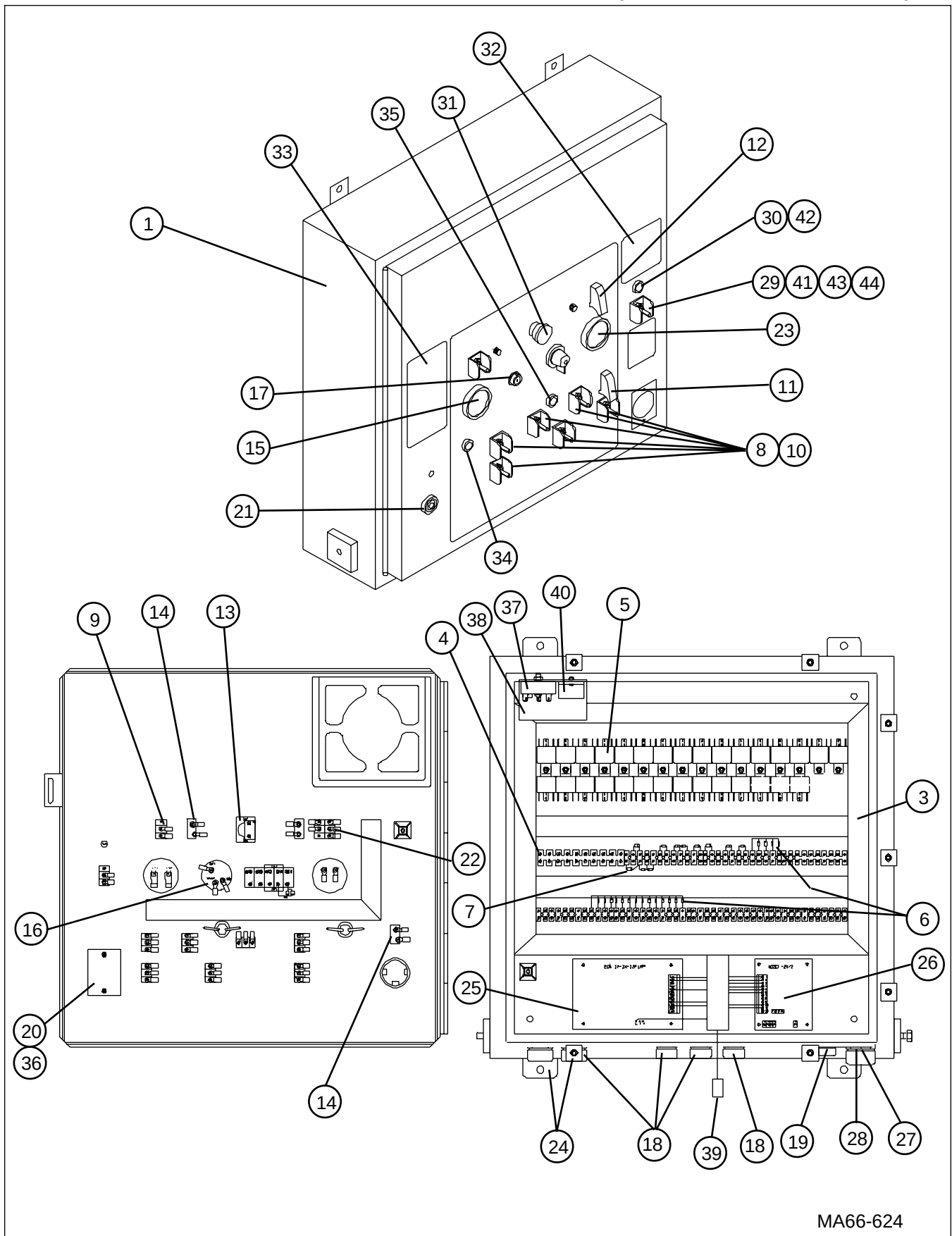
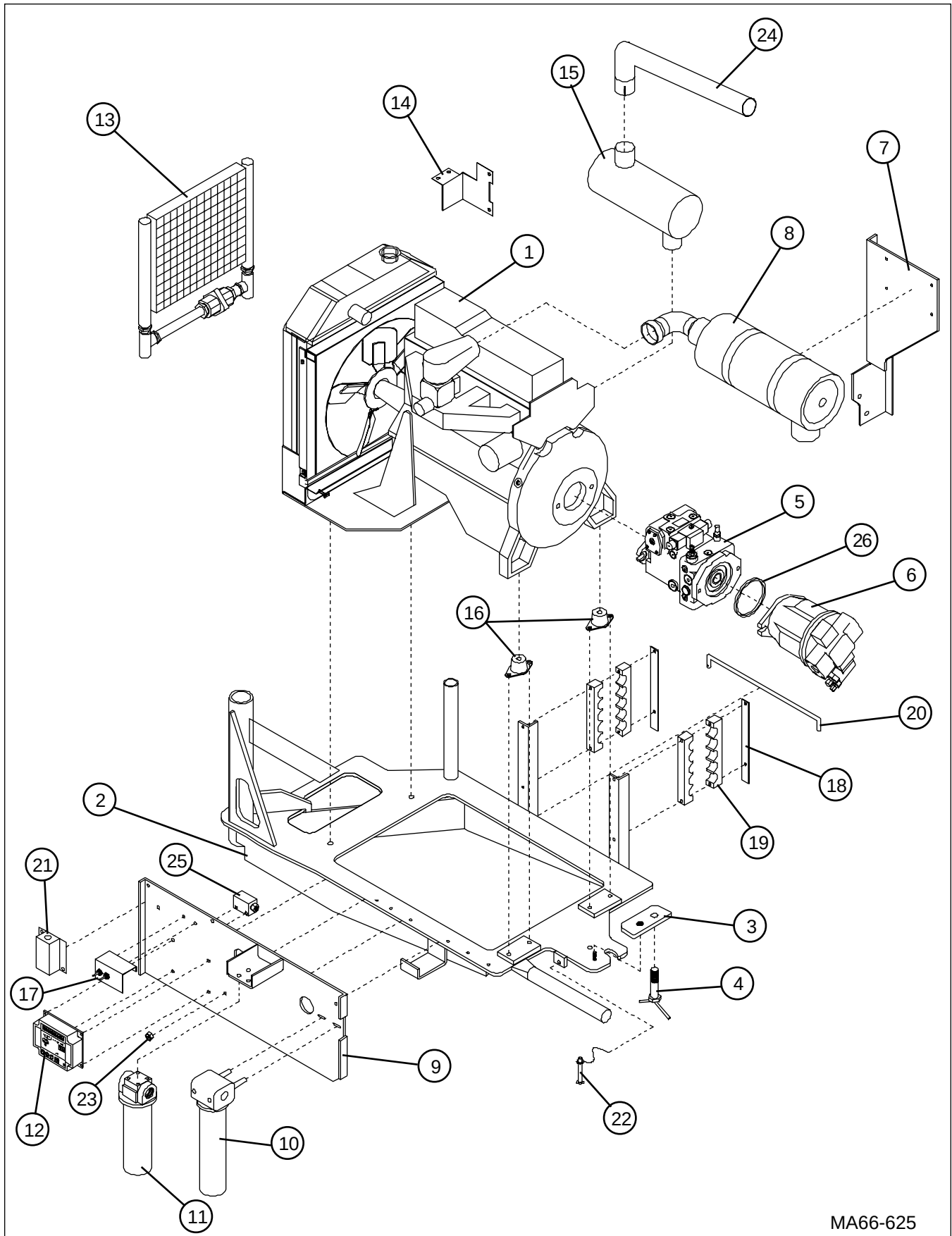


FIGURE 6-35. BASE CONTROL/ELECTRICAL PANEL ASSEMBLY (Serial Number 93266 and Below)

Index No.	Skyjack Part No.	Description							Units per Assy.
		1	2	3	4	5	6	7	
		Parts List Continued from Page 77.							
36	703572	• COVER, 110V Outlet							1
	700841	•• BOLT, Mch-hd #6-32x1/2"							2
	103985	•• NUT, Hex #6-32							2
37	706213	• RELAY, Time delay							1
38	706330	• BRACKET, Time delay relay							1
	103980	•• NUT, Hex 1/4-20							1
	706349	•• BOLT, Mch-hd 1/4-20x1-1/4"							1
39	706074	• CORE, Snap on ferrite							1
40	706649	• BUFFER, Signal							1
		Items 41 Thru 44 are for Machines with Diesel Option.							
41	703458	• LABEL, Glow plug							1
42	703720	• LIGHT, Indicator amber							1
43	701929	• SWITCH, Toggle 2 position momentary							1
44	111181	• GUARD, Toggle switch							1
		NOTE: Total quantity may vary depending on optional equipment.							

FIGURE 6-36. ENGINE AND RELATED PARTS (Ford Dual Fuel)



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FIGURE 6-36. ENGINE AND RELATED PARTS (Ford Dual Fuel)

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	707648	ENGINE, Ford LRG425 (with Dual fuel kit) (Serial Number 93234 and Above)	1
	701141	ENGINE, Ford LRG423 (with Dual fuel kit) (Serial Number 93233 and Below)	1
2	704543	• CARBURETOR (Dual fuel)	1
	703864	• ACTUATOR, Rotary	1
3	704100	WELDMENT, Engine tray	1
4	702504	LATCH, Engine tray	1
5	704576	WELDMENT, Engine tray latch bolt	1
	704306	• PIN, Cotter 3/16" x 1-1/4" lg	1
6	701543	PUMP, Hydraulic drive	1
	103970	• BOLT, Hex-hd 1/2-13 x 1-1/5" lg.	2
	103470	• WASHER, Lock 1/2"	2
	103468	• WASHER, Flat 1/2"	2
7	701545	PUMP, Hydraulic system	1
	103908	• BOLT, Hex-hd 1/2-20 x 1-1/2" lg.	2
	103470	• WASHER, Lock 1/2"	2
8	702543	BRACKET, Air cleaner mounting	1
	704616	• RELAY, 12 DVC, Delay on break	1
9	(Ref.)	AIR CLEANER ASSEMBLY	
	704561	• ELEMENT, Air filter	1
	702035	• ASSEMBLY, Air cleaner	1
	702036	• BRACKET, Air cleaner assembly	2
	702805	• SEAL ASSEMBLY, Air cleaner	1
	706333	• REDUCER, Rubber elbow 3" x 2"	1
	702664	• CLAMP, Gear	1
	703092	• CLAMP, Gear	1
10	704177	WELDMENT, Filter mounting plate	1
	103473	• BOLT, Hex-hd 3/8-16 x 1" lg.	4
	103999	• WASHER, Lock 3/8"	4
	103978	• NUT, Hex 3/8-16	2
11	704476	FILTER, High pressure hydraulic	1
	704559	• ELEMENT, High pressure filter	1
	704581	• BOLT, Hex-hd 1/4-20 x 4.5" lg.	2
	704580	• STANDOFF	2
12	708280	FILTER, Medium pressure hydraulic (Serial Number 93241 to Above.)	1
	702033	FILTER, Medium pressure hydraulic (Serial Number 93240 and Below.)	1
	703047	• ELEMENT, Medium pressure filter	1
	101632	• BOLT, Hex-hd 3/8-16 x 3/4" lg.	4
	103999	• WASHER, Lock 3/8"	4
12	103472	• WASHER, Flat 3/8"	4
	701643	THROTTLE CONTROL, Engine	1
	700549	• BOLT, Soc-hd #10-32 x 3/4" lg.	4
	104694	• WASHER, Flat #10	4
	104185	• WASHER, Lock #10	4
	104003	• NUT, Hex #10-32	4
Parts List Continued on Page 83.			

This exploded view diagram illustrates the assembly of the MA66-625 unit. The components are numbered as follows:

- 1**: Main housing or motor body.
- 2**: Base plate or mounting flange.
- 3**: Small mounting bracket or plate.
- 4**: Small pin or screw.
- 5**: Solenoid or valve actuator.
- 6**: O-ring or seal.
- 7**: Side mounting plate.
- 8**: Long cylindrical component, possibly a piston or rod.
- 9**: Front plate or cover.
- 10**: Vertical support rod.
- 11**: Another vertical support rod.
- 12**: Small electronic or control module.
- 13**: Grid-like filter or screen.
- 14**: Small L-shaped bracket.
- 15**: Small cylindrical component.
- 16**: Small pin or screw.
- 17**: Small electronic or control module.
- 18**: Long horizontal plate or bracket.
- 19**: Vertical support rod.
- 20**: Long horizontal plate or bracket.
- 21**: Small electronic or control module.
- 22**: Small pin or screw.
- 23**: Small electronic or control module.
- 24**: Long horizontal plate or bracket.
- 25**: Small electronic or control module.
- 26**: Small electronic or control module.

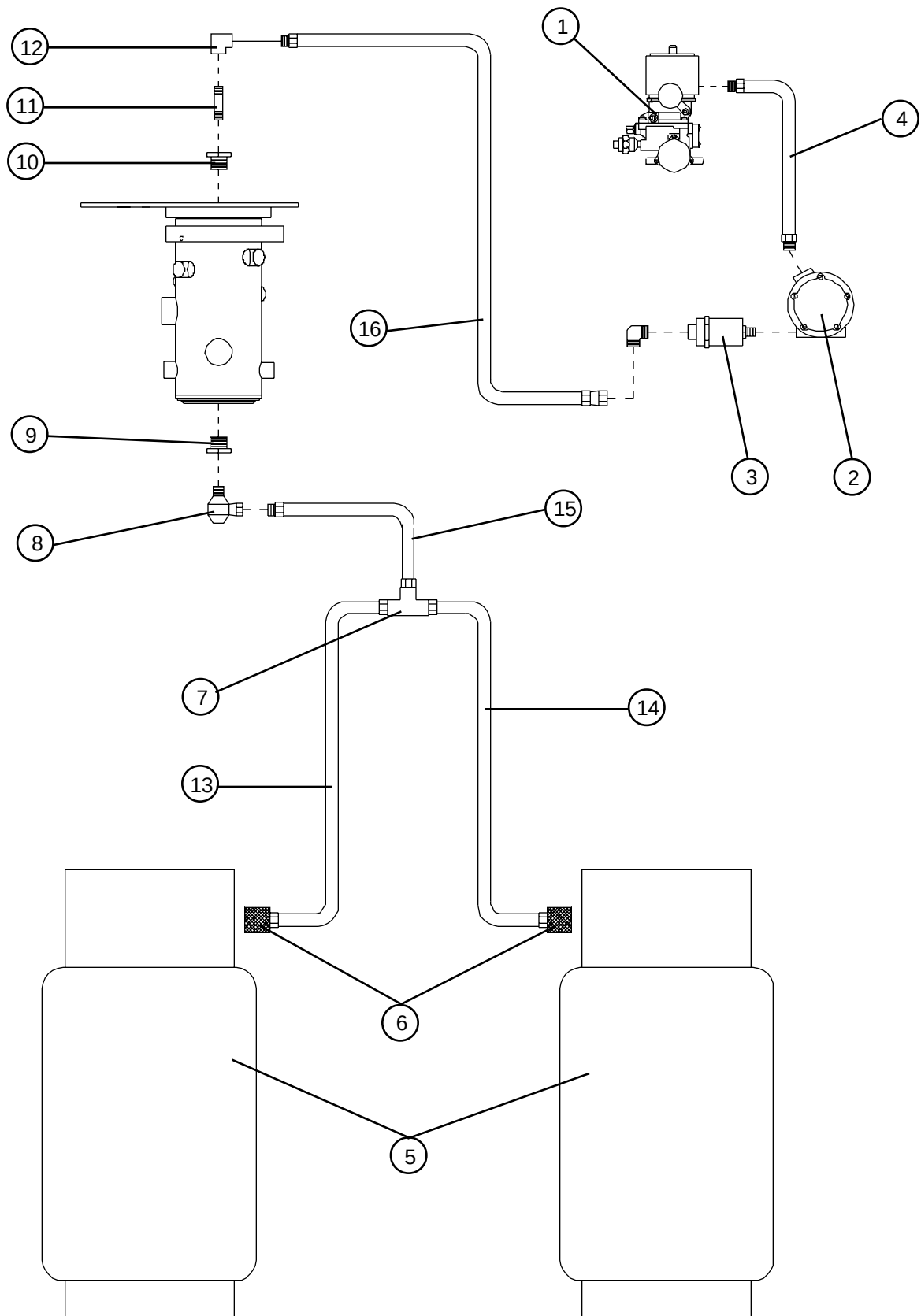
The diagram shows the spatial relationship between these parts, with dashed lines indicating the assembly path and alignment points.

SJB-66TK, Serial Number 93198 and above

FIGURE 6-36. ENGINE AND RELATED PARTS (Ford Dual Fuel)

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
		Parts List Continued from Page 81	
13	706871	ASSEMBLY, Oil cooler	1
	702031	• COOLER, Oil	1
	703413	• FITTING, Tee #12	1
	701879	• FITTING, Connector 1" NPT-#12	2
14	704579	BRACKET, Coolant reservoir	1
15	704544	MUFFLER, Exhaust	1
16	702672	MOUNT, Engine	2
	111921	• BOLT, Hex-hd 3/8-16 x 1/2" lg.	2
	103999	• WASHER, Lock 3/8"	2
17	706102	ASSEMBLY, Throttle control switch	1
	701929	• SWITCH, Toggle 3 position momentary	2
	702322	• LABEL, Throttle control	1
	702533	• BRACKET, Toggle switch mount	1
	700549	• BOLT, Soc-hd #10-32 x 3/4" lg.	2
	104694	• WASHER, Flat #10	2
	104185	• WASHER, Lock #10	2
	104003	• NUT, Hex #10-32	2
18	702523	STRAP, Hose carrier	2
19	704465	CARRIER, Hose	2
	103884	• BOLT, Hex-hd 5/16-18 x 2-1/2" lg.	2
	100397	• NUT, Hex 5/16-18	2
	103404	• WASHER, Lock 5/16"	2
20	704397	LATCH, Engine tray	1
21	115387	PUMP, Electronic fuel	1
22	703658	PIN, Hitch	1
	105807	• LANYARD, 6 inch	1
23	103068	ISOLATOR	1
24	703966	TUBE, Exhaust	1
25	704949	SHUTTLE	1
26	711086	O-RING	1
	703049	FILTER, Fuel	1
	711120	FILTER, Oil	1

FIGURE 6-37. DUAL FUEL SYSTEM (Ford Engine)(Option)

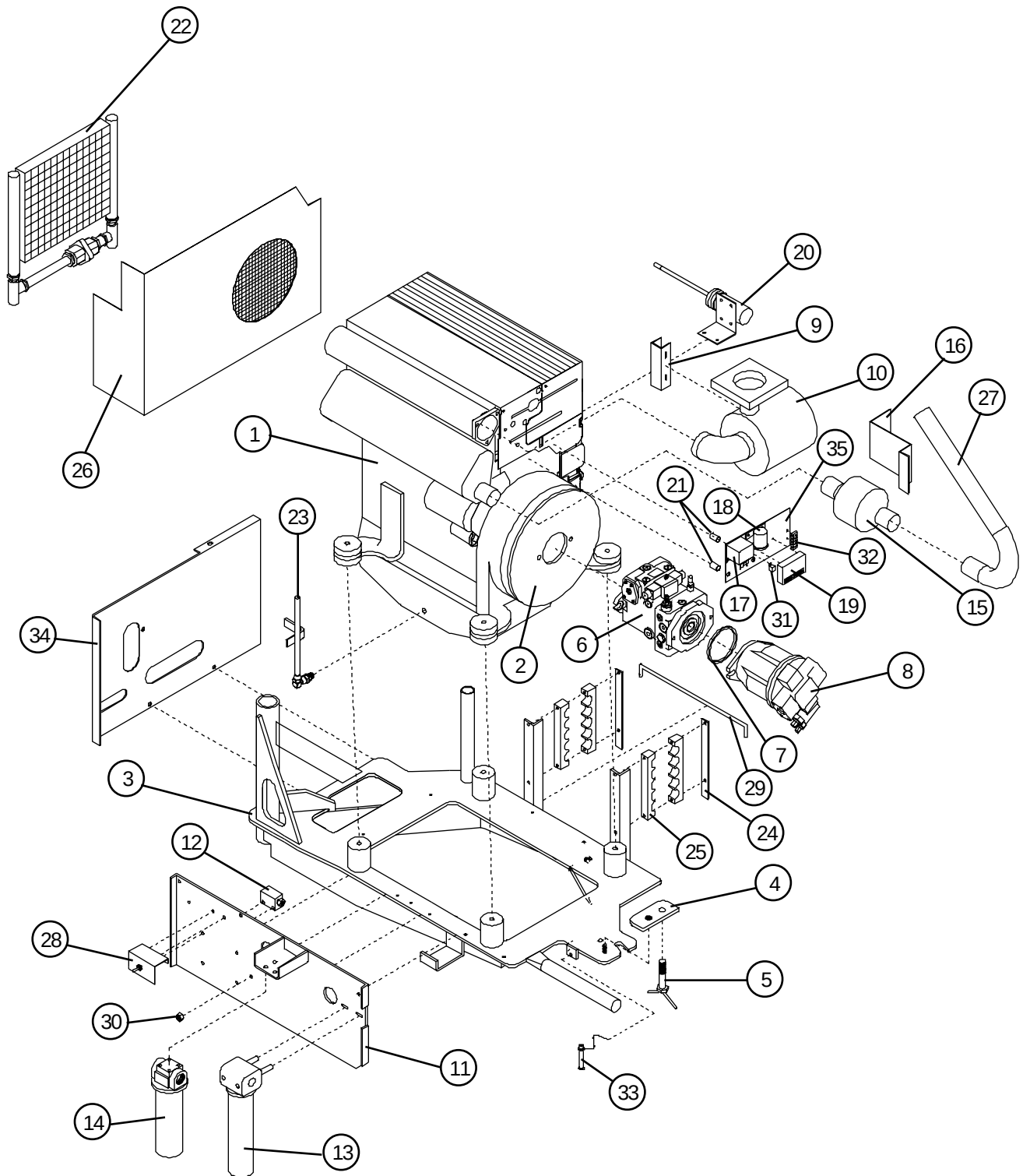


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FIGURE 6-37. DUAL FUEL SYSTEM (Ford Engine)(Option)

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	704551	KIT, Dual fuel	-
	704543	• CARBURETOR, LP	1
	704549	•• VENTURI, #30 LP	1
2	704550	• BULKHEAD, LP	1
3	107444	• LOCKOFF, LP with filter	1
4		• HOSE, LP Vapor	1
5	702253	TANK, 43.5 lb. Propane	2
6	103006	COUPLING, Quick connect LP	2
7	702237	FITTING, Brass female tee #4	1
8	702239	FITTING, Brass swivel 90° #6 - #4	1
9	702821	FITTING, Adaptor #12 - #6	1
10	702820	FITTING, Adaptor #12 - #4	1
11	702499	FITTING, Pipe nipple 1/4"npt x 2" lg.	1
12	702500	FITTING, Brass elbow 90° #4 - #4	1
13	704546	HOSE ASSEMBLY, 42" Propane	1
14	704547	HOSE ASSEMBLY, 36" Propane	1
15	704545	HOSE ASSEMBLY, 19" Propane	1
16	704548	HOSE ASSEMBLY, 92" Propane	1
NOTE: Refer to Sandard Hose Numbering System (SECTION 5, Page 33) for explanation of hose numbering.			

FIGURE 6-38. ENGINE AND RELATED PARTS (Deutz Diesel)(Option)

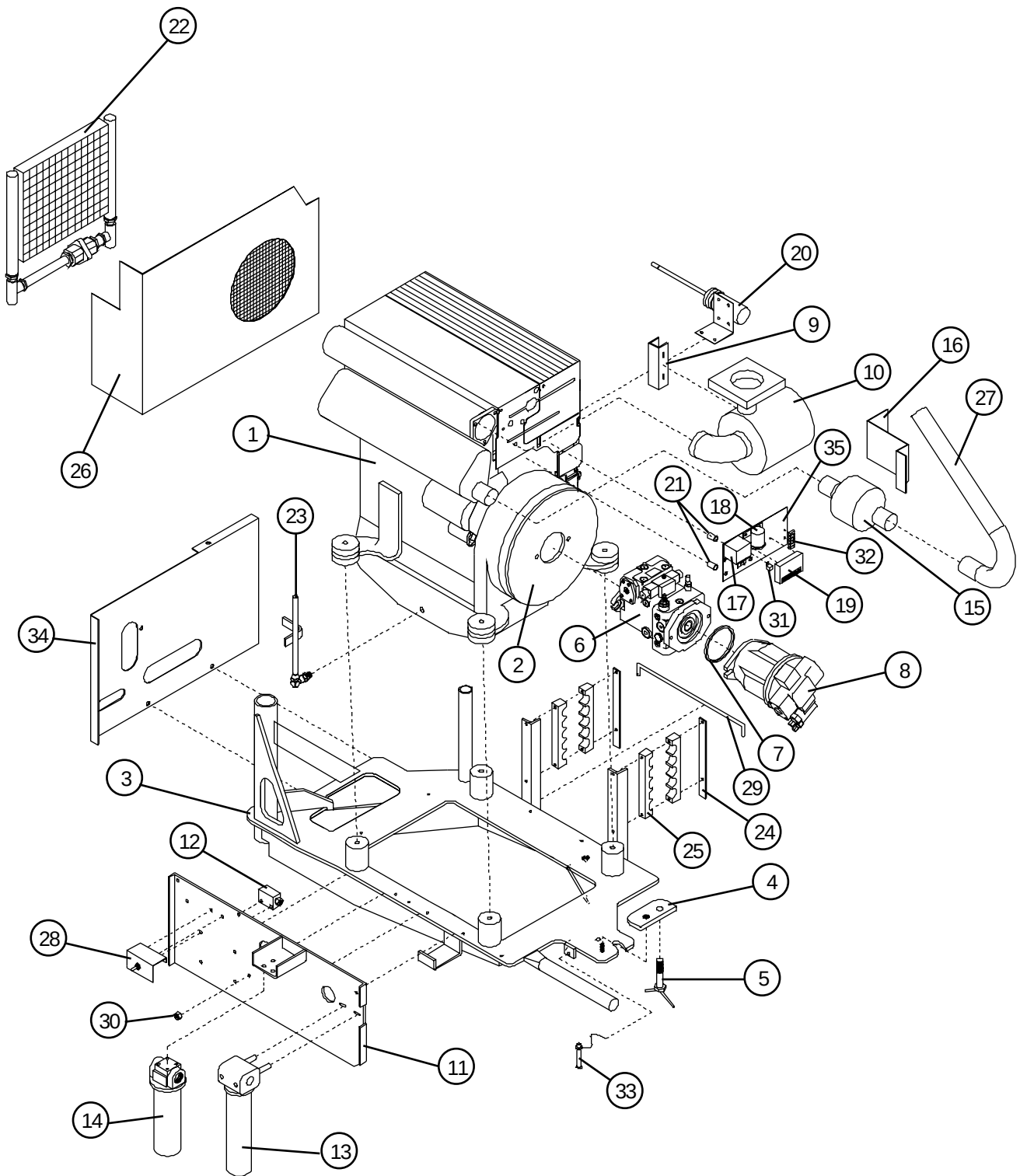


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FIGURE 6-38 ENGINE AND RELATED PARTS (Deutz Diesel)(Option)

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	707728	ENGINE, Air cooled diesel (Serial Number 93218 and Above.)	1
	703056	ENGINE, Air cooled diesel (Serial Number 93217 and Below.)	1
	703179	• SWITCH, Engine shutdown	1
2	708485	• PLATE, Flywheel	1
3	704427	WELDMENT, Engine tray	1
4	702504	LATCH, Engine tray	1
5	704576	WELDMENT, Engine tray latch bolt	1
6	704306	• PIN, Cotter 3/16" x 1-1/4" lg	1
	701543	PUMP, Hydraulic drive	1
	103970	• BOLT, Hex-hd 1/2-13 x 1-1/5" lg.	2
	103470	• WASHER, Lock 1/2"	2
7	103468	• WASHER, Flat 1/2"	2
	711086	O-RING	1
	701545	PUMP, Hydraulic system	1
8	103908	• BOLT, Hex-hd 1/2-20 x 1-1/2" lg.	2
	103470	• WASHER, Lock 1/2"	2
	703222	BRACKET, Air cleaner mount	1
10	(Ref.)	AIR CLEANER ASSEMBLY	1
	704560	• ELEMENT, Primary filter	1
	706549	• ELEMENT, Secondary filter	1
	703312	• ASSEMBLY, Air cleaner	1
	703315	• MOUNTING BAND, Air cleaner	1
	703325	• HUMP REDUCER, Air cleaner	1
	703200	• WELDMENT, Air cleaner mount	1
	703553	• SEAL, Air cleaner	1
	703327	• CLAMP, Air cleaner 3-1/2"	1
	704177	WELDMENT, Filter mounting plate	1
11	103473	• BOLT, Hex-hd 3/8-16 x 1" lg.	4
	103999	• WASHER, Lock 3/8"	4
	103978	• NUT, Hex 3/8-16	2
	704949	SHUTTLE	1
13	704476	FILTER, High pressure hydraulic	1
	704559	• ELEMENT, High pressure filter	1
	704581	• BOLT, Hex-hd 1/4-20 x 4.5" lg.	2
	704580	• STANDOFF	2
14	708280	FILTER, Medium pressure hydraulic (Serial Number 93241 and Above.)	1
	702033	FILTER, Medium pressure hydraulic (Serial Number 93240 and Below.)	1
	703047	• ELEMENT, Medium pressure filter	1
	101632	• BOLT, Hex-hd 3/8-16 x 3/4" lg.	4
	103999	• WASHER, Lock 3/8"	4
	103472	• WASHER, Flat 3/8"	4
15	703313	CONVERTER, Exhaust - 2-1/8" (Optional)	1
	708391	CONVERTER, Exhaust (Early Models) - 2" (Optional)	1
16	709505	BRACKET, Exhaust	1
	703355	BRACKET, Exhaust (w/optional converter)	1
17	703179	SWITCH, Engine shutdown	1
18	703437	CONTACTOR, 12 Volt 80 amp	1
19	703348	MODULE, Throttle control solenoid	1
20	(Ref.)	ASSEMBLY, Throttle solenoid	1
	703216	• BRACKET, Throttle control solenoid	1
	703347	• SOLENOID, Throttle control	1
	703467	• ROD, Throttle control linkage	1
	703463	• BALL JOINT, Throttle control rod	1
		Parts List Continued on Page 89.	

FIGURE 6-38. ENGINE AND RELATED PARTS (Deutz Diesel)(Option)



MA66-626

FIGURE 6-38. ENGINE AND RELATED PARTS (Deutz Diesel)(Option)

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
		Parts List Continued from Page 87.	
21	707723	STANDOFF (Serial Number 94037 and Above)	2
	707732	• BOLT, HHCS M10x1.5mx60mm, gr. 8.8	1
22	706871	ASSEMBLY, Oil cooler	1
	702031	• COOLER, Oil	1
	703413	• FITTING, Tee, #12	1
	701879	• FITTING, Connector 1"NPT-#12	2
23	(Ref.)	ASSEMBLY, Dipstick	1
	703623	• TUBE, Dipstick	1
	700583	• NUTS	2
	703238	• U-BOLT	1
	103995	• WASHER	2
	703624	• BRACKET, dipstick tube	1
	703625	• FITTING, Adaptor #18orb - #10	1
	703626	• FITTING, Elbow 90° #10 - #10	1
24	702523	STRAP, Hose carrier	2
25	704465	CARRIER, Hose	2
	103884	• BOLT, Hex-hd 5/16-18 x 2-1/2" lg.	2
	100397	• NUT, Hex 5/16-18	2
	103404	• WASHER, Lock 5/16"	2
26	704336	WELDMENT, Intake bracket	1
27	709503	PIPE, Exhaust	1
	703311	PIPE, Exhaust (w/optional converter)	1
28	703483	ASSEMBLY, Throttle control switch	1
	701929	• SWITCH, Toggle 3 position momentary	1
	703480	• LABEL, Throttle control	1
	702533	• BRACKET, Toggle switch mount	1
	700549	• BOLT, Soc-hd #10-32 x 3/4" lg.	2
	104694	• WASHER, Flat #10	2
	104185	• WASHER, Lock #10	2
	104003	• NUT, Hex #10-32	2
29	704397	LATCH, Engine tray	1
30	103068	STANDOFF, Insulated	1
31	701943	RELAY, 12 VDC, Sealed	1
32	103011	TERMINAL STRIP, Small (Serial Number 93218 and Above)	1
	103012	TERMINAL STRIP, Small (Serial Number 93217 and Below)	1
33	703658	PIN, Hitch	1
	105807	• LANYARD, 6 inch	1
34	704338	COVER, Diesel	1
35	707310	BRACKET, Switch (Serial Number 93218 and Above)	1
	703282	BRACKET, Contactor (Serial Number 93217 and Below)	1
	703287	BRACKET, Terminal block (Serial Number 93217 and Below)	1

NOTES

FIGURE 6-39. BOOM LIFT CYLINDER ASSEMBLY

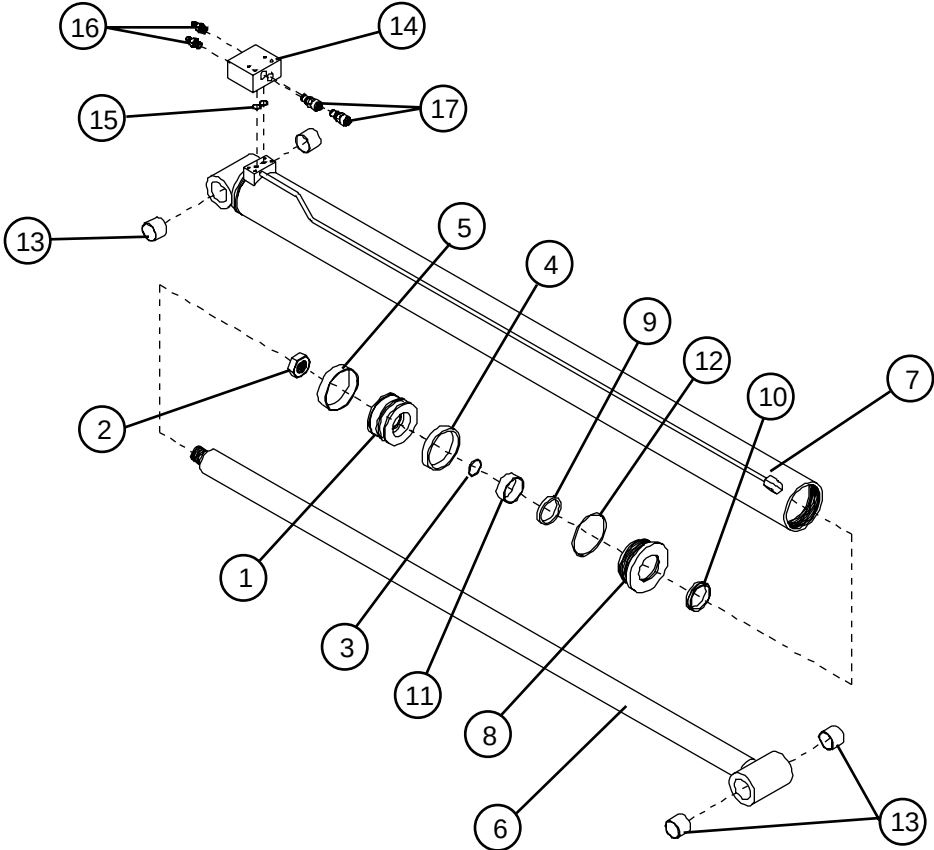
 MA66-627			
Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
	701991	CYLINDER ASSEMBLY, Boom lift	-
1	701992	• PISTON	1
2	701288	• NUT, Lock 1-1/2 - 12	1
3*	701967	• O-RING	1
4*	701377	• SEAL, Piston	1
5*	109248	• WEAR RING, Piston	1
6	701993	• WELDMENT, Rod	1
7	702089	• WELDMENT, Barrel	1
8	701994	• GLAND	1
9*	701990	• SEAL, Rod	1
10*	701989	• WIPER, Rod	1
11*	106219	• WEAR RING, Rod	1
12*	701968	• O-RING	1
13	103208	• BUSHING, 2" x 2-3/16" x 1-1/2" lg.	4
14	701460	VALVE BLOCK	1
	702819	• BOLT, Soc-hd 5/16-18 x 1-1/4" lg.	4
15	701635	O-RING	2
16	701956	FITTING, Connector #6orb - #4	2
17	701827	VALVE, Counterbalance	2
	702643	KIT, Seal repair	AR
	703873	TOOL, Cylinder assembly	AR
		* Part of Seal Repair Kit	

FIGURE 6-40. TURRET HYDRAULIC CONNECTIONS

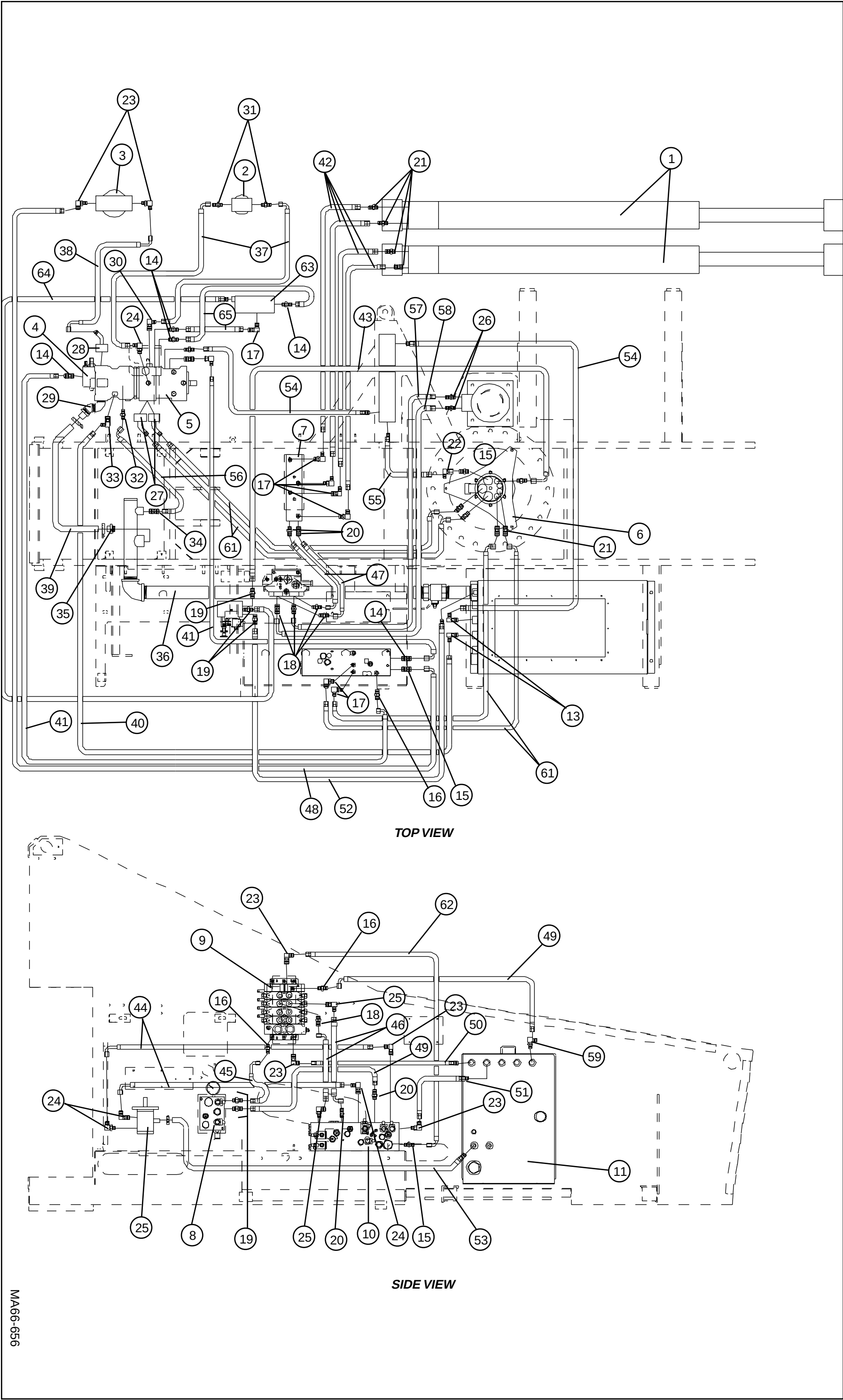
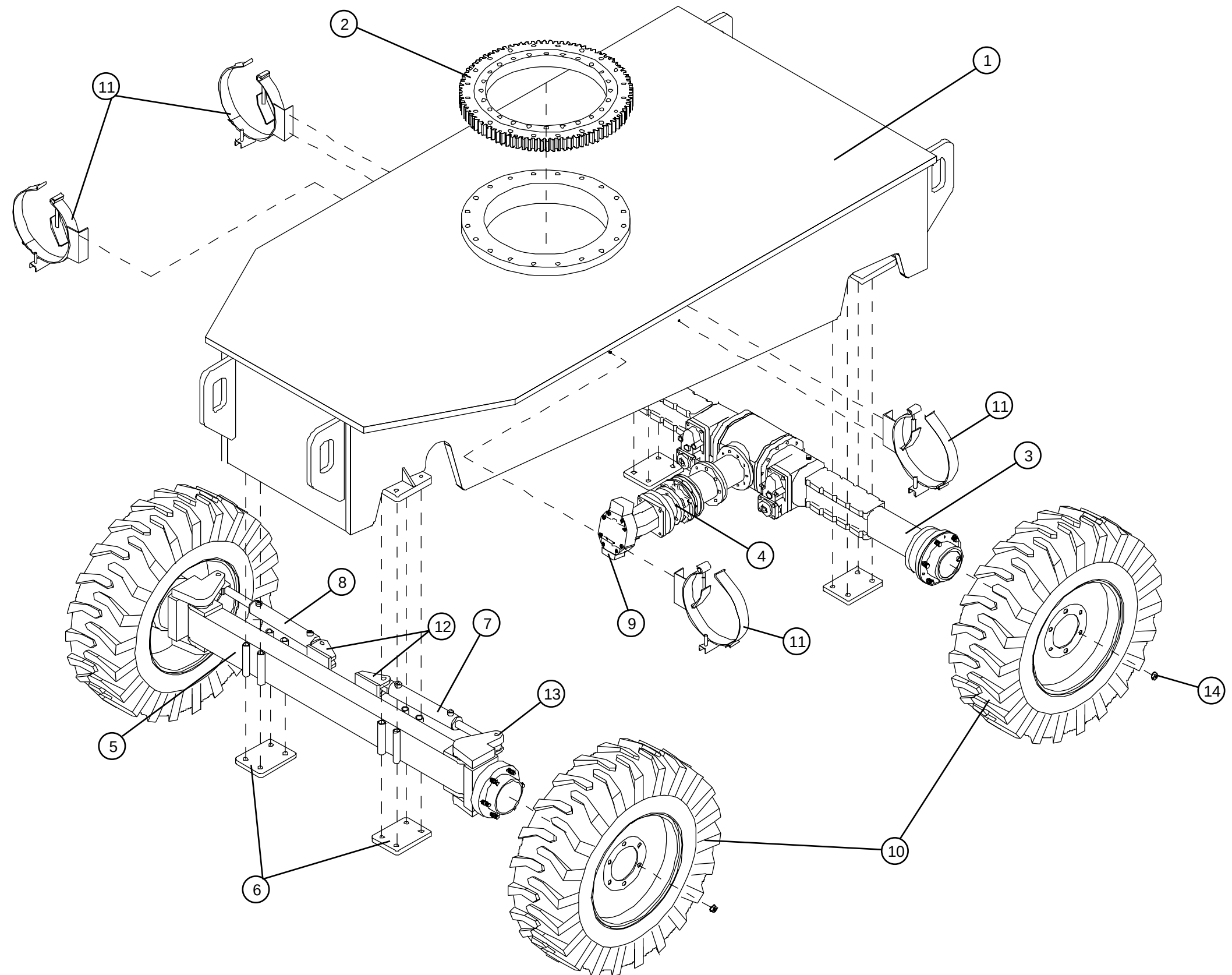


FIGURE 6-40. TURRET HYDRAULIC CONNECTIONS

Index No.	Skyjack Part No.	Description	Units per Assy.	Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7				1 2 3 4 5 6 7	
1	701991	CYLINDER ASSEMBLY, Boom lift (For components, refer to Figure 6-39.)	2	33	702438	FITTING, Elbow 90° #8orb - #12	1
2	708280	FILTER, Medium pressure hydraulic fluid (Serial Number 93241 and Above.)	1	34	704582	FITTING, Connector #10 - #12	1
	702033	FILTER, Medium pressure hydraulic (Serial Number 93240 and Below.)	1	35	702558	FITTING, Connector 1-1/4NPT - 1-1/2 hose barb	1
	703047	• ELEMENT, Filter	1	36	(Ref.)	ASSEMBLY, Suction pipe manifold	1
3	704476	FILTER ASSEMBLY, High pressure hydraulic fluid	1		702559	FITTING, Nipple 2"NPT - 48" lg.	1
	704559	• ELEMENT, Filter	1		702562	FITTING, Elbow 90° 2"NPT	1
4	701545	PUMP, Hydraulic system	1		704644	PIPE MANIFOLD, Suction line	1
5	701543	PUMP, Hydraulic drive	1	37	704527	ASSEMBLY, Hose (H606 0021 00-0)	2
6	704343	MANIFOLD, Rotary	1	38	704540	ASSEMBLY, Hose (H712 0013 02-0)	1
7	702607	MANIFOLD, Distribution	1	39	704514	ASSEMBLY, Hose (H1624 0086 00-0)	1
8	704716	MANIFOLD, Brake	1	40	704542	ASSEMBLY, Hose (H812 0121 00-0)	1
9	702112	VALVE ASSEMBLY, Proportional control	1	41	704519	ASSEMBLY, Hose (H504 0117 00-0)	2
10	701753	MANIFOLD, Main	1	42	703875	ASSEMBLY, Hose (H104 0032 00-0)	4
11	702214	TANK WELDMENT, Hydraulic fluid	1	43	708972	ASSEMBLY, Hose (H506 0057 00-0)	1
12	703181	PUMP, Emergency Lowering	1	44	704521	ASSEMBLY, Hose (H506 0066 00-0)	2
13	702541	FITTING, Elbow 90° 3/4" NPT - #12	2	45	704522	ASSEMBLY, Hose (H506 0068 00-0)	1
14	701954	FITTING, Connector #4orb - #4	5	46	704534	ASSEMBLY, Hose (H608 0022 00-0)	2
15	702118	FITTING, Connector #12orb - #12	5	47	704536	ASSEMBLY, Hose (H608 0027 00-0)	2
16	103322	FITTING, Connector #4orb - #6	4	48	704525	ASSEMBLY, Hose (H512 0117 00-0)	1
17	701850	FITTING, Elbow 90° #4orb - #4	7	49	704530	ASSEMBLY, Hose (H606 0050 00-0)	2
18	103070	FITTING, Connector #8orb - #6	5	50	704507	ASSEMBLY, Hose (H1312 0029 00-0)	1
19	103069	FITTING, Connector #6orb - #6	5	51	704505	ASSEMBLY, Hose (H1312 0016 02-0)	1
20	702116	FITTING, Connector #8orb - #8	3	52	703874	ASSEMBLY, Hose (H1006 0040 00-0)	1
21	701956	FITTING, Connector #6orb - #4	6	53	704512	ASSEMBLY, Hose (H1412 0055 00-0)	1
22	702119	FITTING, Elbow 90° Female #12 - #12	1	54	706588	ASSEMBLY, Hose (H1512 0075 00-0)	2
23	702117	FITTING, Elbow 90° #12orb - #12	5	55	706575	ASSEMBLY, Hose (H1512 0026 00-0)	1
24	103073	FITTING, Elbow 90° #6orb	5	56	711412	ASSEMBLY, Hose (H2012 0078 00-0)	1
25	701998	FITTING, Elbow 90° #8orb - #8	2	57	704532	ASSEMBLY, Hose (H606 0086 00-0)	1
26	103307	FITTING, Connector #10orb - #6	2	58	704523	ASSEMBLY, Hose (H506 0086 00-0)	1
27	702234	FITTING, Elbow 45° 6000psi split flange #12	2	59	703036	FITTING, Elbow 90° #12 - #6	1
	702233	• KIT, Split flange seal	1	60	704503	ASSEMBLY, Hose (H1112 0093 00-0)	2
28	702439	FITTING, Elbow 45° 3000psi split flange	1	61	704553	ASSEMBLY, Hose (H604 0038 00-0)	2
	702440	• KIT, Split flange seal	1	62	704538	ASSEMBLY, Hose (H612 0039 00-0)	1
29	(Ref.)	FITTING ASSEMBLY, Suction	1	63	704949	VALVE, Shuttle	1
	702880	FITTING, Flange	1	64	706553	ASSEMBLY, Hose (H2204 0101 00-0)	1
	701884	FITTING, Nipple 1-1/4NPT - 1-1/4 lg.	1	65	707094	ASSEMBLY, Hose (H2204 0020 00-0)	2
	702629	FITTING, Elbow 90° 1-1/4NPT	1			NOTE: Refer to Sandard Hose Numbering System (SECTION 5, Page 33) for explanation of hose numbering.	
	702630	FITTING, Elbow 45° 1-1/4NPT	1				
	702558	FITTING, Connector 1-1/4NPT - 1-1/2" hose barb	1				
30	703255	FITTING, Elbow 90° long #8orb - #6	1				
31	109052	FITTING, Connector #12orb - #6 (Serial Number 93241 and Above.)	2				
	702123	FITTING, Connector #16orb - #16 (Serial Number 93240 and Below.)	2				
32	702122	FITTING. Connector #16orb - #12	1				

FIGURE 6-41. BASE, AXLES AND WHEELS (Standard 4 x 2)

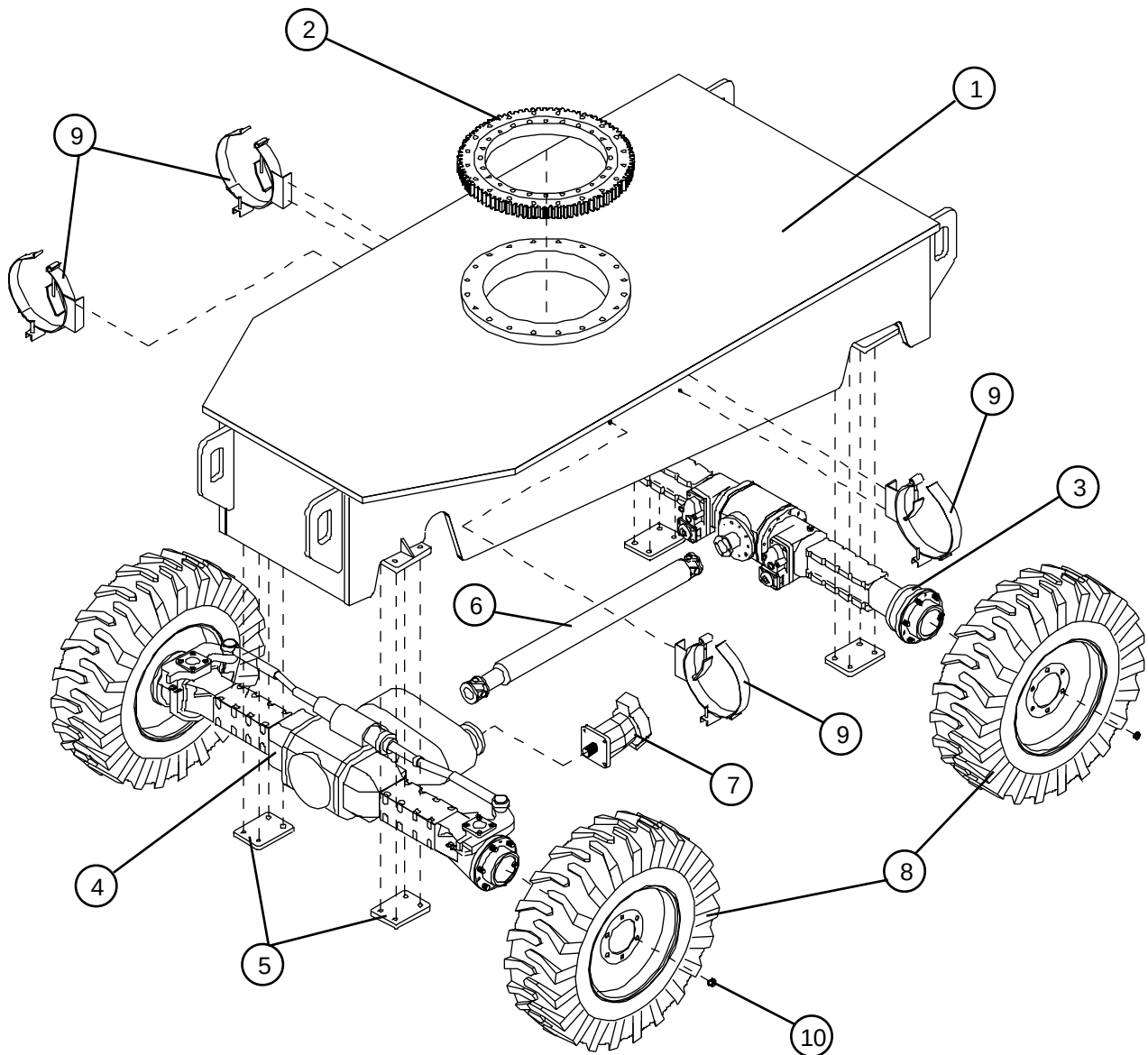


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FIGURE 6-41. BASE, AXLES AND WHEELS (Standard 4 x 2)

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	703117	WELDMENT, Chassis	1
2	702988	GEAR, Turret rotate	1
	703053	• BOLT, Hex-hd 3/4-10 x 5-1/2" lg.	20
	702194	• WASHER, Flat 3/4" hardened	20
3	701699	AXLE, Rigid drive (For components, refer to Figure 6-50.)	1
4	701047	PLANETARY, Gear reduction drive (For components, refer to Figure 6-47/48.)	1
	701054	• BOLT, Hex-hd 8mm-1.25 x 45mm lg.	8
	701055	• NUT, Hex 8mm-1.25	8
	701056	• WASHER, Lock 8mm	8
5	702309	AXLE, Steering (For components, refer to Figure 6-46.)	1
6	701953	PLATE, Axle mount	4
	703415	• BOLT, Hex-hd 3/4-10 x 9" lg.	4
	700575	• NUT, Lock 3/4-10	4
7	706861	CYLINDER ASSEMBLY, Steering (Left) (For components, refer to Figure 6-45.)	1
8	706862	CYLINDER ASSEMBLY, Steering (Right) (For components, refer to Figure 6-45.)	1
9	701544	MOTOR, Hydraulic drive	1
	703057	• BOLT, Hex-hd 9/16-12 x 2-1/2" lg.	4
	702899	• WASHER, Lock 9/16	4
	702192	• NUT, Hex 9/16-12	4
10	706770	WHEEL/TIRE ASSEMBLY, Standard	4
	708863	• TIRE (15 x 19.5 - 16 ply) (Serial Number 93269-93271, 93276 and above)	1
	706599	• TIRE (15 x 19.5 - 14 ply) (Serial Number 93272-93275, 93268 and below)	1
	702024	• RIM (15 x 19.5)	1
	708791	WHEEL/TIRE ASSEMBLY, Rib flotation (option)	4
	708790	• TIRE (40/19 x 19-1/2 - 14 ply)	1
	708744	• RIM (19-1/2x14x8)	1
	706771	WHEEL/TIRE ASSEMBLY, Lug flotation (option)	4
	703589	• TIRE (38/18 x 20 - 12 ply)	1
	703590	• RIM (38/18 x 20)	1
	706601	WHEEL/TIRE ASSEMBLY, Std. Foam filled (option)(15 x 19.5 - 14 ply) (Serial Number 93417-93425, 93415 and below)	4
	708900	WHEEL/TIRE ASSEMBLY, Std. Foam filled (option)(15 x 19.5 - 16 ply) (Serial Number 93416, 93426 and above)	4
11	702633	BRACKET, LP Tank mounting (pair)	2
12	704555	WELDMENT, Steer cylinder inner pin	2
13	704556	WELDMENT, Steer cylinder outer pin	2
14	700498	NUT, Lug 18MM	32
NOTE: Size and load rating of replacement tires MUST be identical to that of original equipment to maintain safety and stability of machine.			

FIGURE 6-42. BASE, AXLES AND WHEELS (Optional 4 x 4)

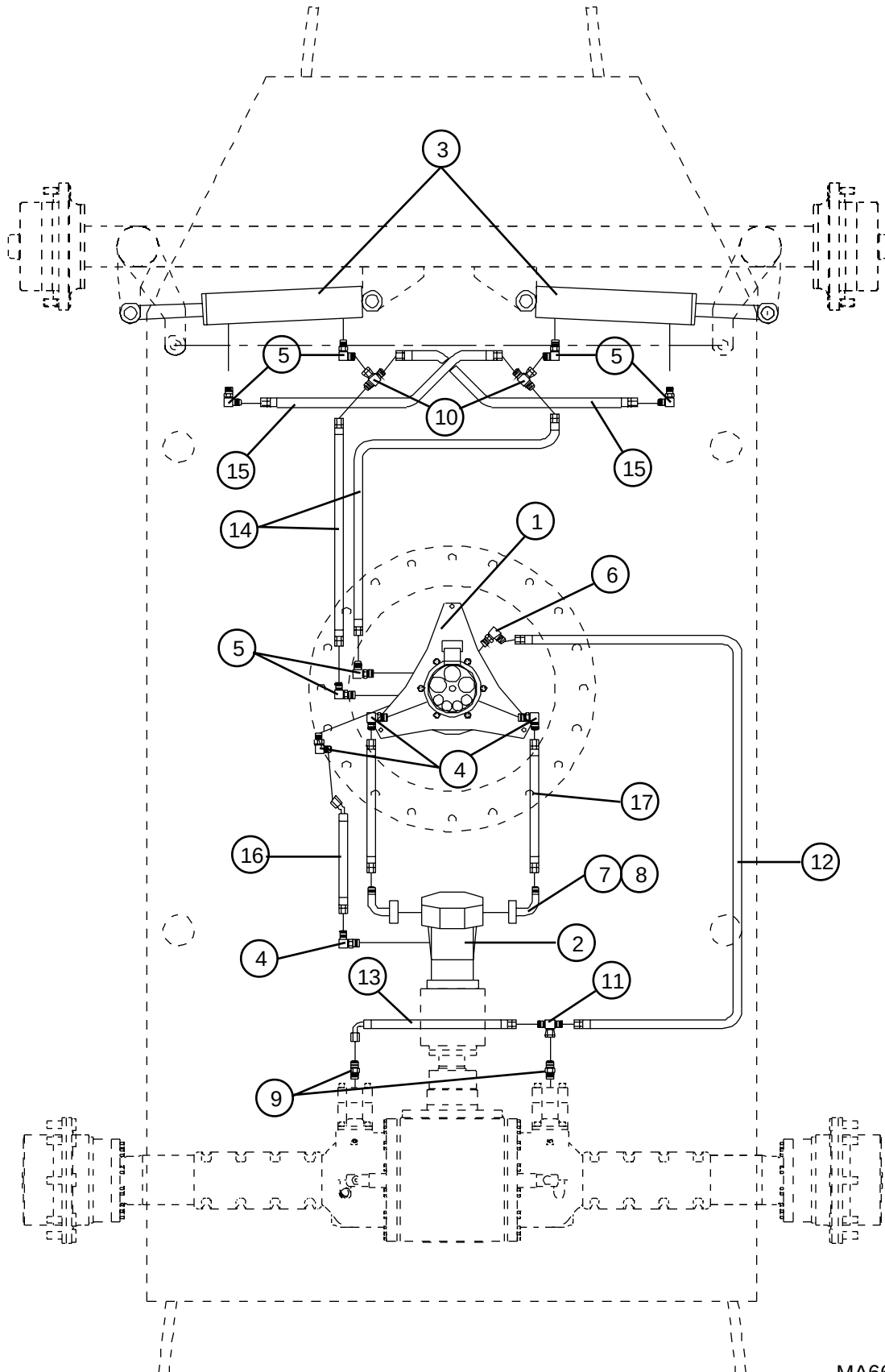


MA66-630

FIGURE 6-42. BASE, AXLES AND WHEELS (Optional 4 x 4)

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	703117	WELDMENT, Chassis	1
2	702988	GEAR, Turret rotate	1
	703053	• BOLT, Hex-hd 3/4-10 x 5-1/2" lg.	20
	702194	• WASHER, Flat 3/4" hardened	20
3	701454	AXLE, Rigid drive (For components, refer to Figure 6-50.)	1
4	701453	AXLE, Drive/steer with transfer case (For components, refer to Figure 6-51.)	1
5	701953	PLATE, Axle mount	4
	703415	• BOLT, Hex-hd 3/4-10 x 9" lg.	4
	700575	• NUT, Lock 3/4-10	4
6	702041	ASSEMBLY, Drive line	1
	702956	• BOLT, Hex-hd 7/16-20 x 1-1/4" lg.	8
	702991	• WASHER, Lock 7/16"	8
	702960	• NUT, Lock 7/16-20	8
7	701544	MOTOR, Hydraulic drive	1
	702191	• BOLT, Hex-hd m14x2.0x45mm lg.	4
	702192	• WASHER, Lock 9/16"	4
8	706770	WHEEL/TIRE ASSEMBLY, Standard	4
	708863	• TIRE (15 x 19.5 - 16 ply) (Serial Number 93269-93271, 93276 and above)	1
	706599	• TIRE (15 x 19.5 - 14 ply) (Serial Number 93272-93275, 93268 and below)	1
	702024	• RIM (15 x 19.5)	1
	704250	WHEEL/TIRE ASSEMBLY, Rib flotation (option) (40/19 x 19.5 - 14 ply)	4
	706771	WHEEL/TIRE ASSEMBLY, Lug flotation (option)	4
	703589	• TIRE (38/18 x 20 - 12 ply)	1
	703590	• RIM (38/18 x 20)	1
	706601	WHEEL/TIRE ASSEMBLY, Std. Foam filled (option) (15 x 19.5 - 14 ply)	4
9	702633	BRACKET, LP Tank mounting (pair)	2
10	700498	NUT, Lug 18MM	32
NOTE: Size and load rating of replacement tires MUST be identical to that of original equipment to maintain safety and stability of machine.			

FIGURE 6-43. BASE ASSEMBLY HYDRAULIC CONNECTIONS (Standard 4x2)

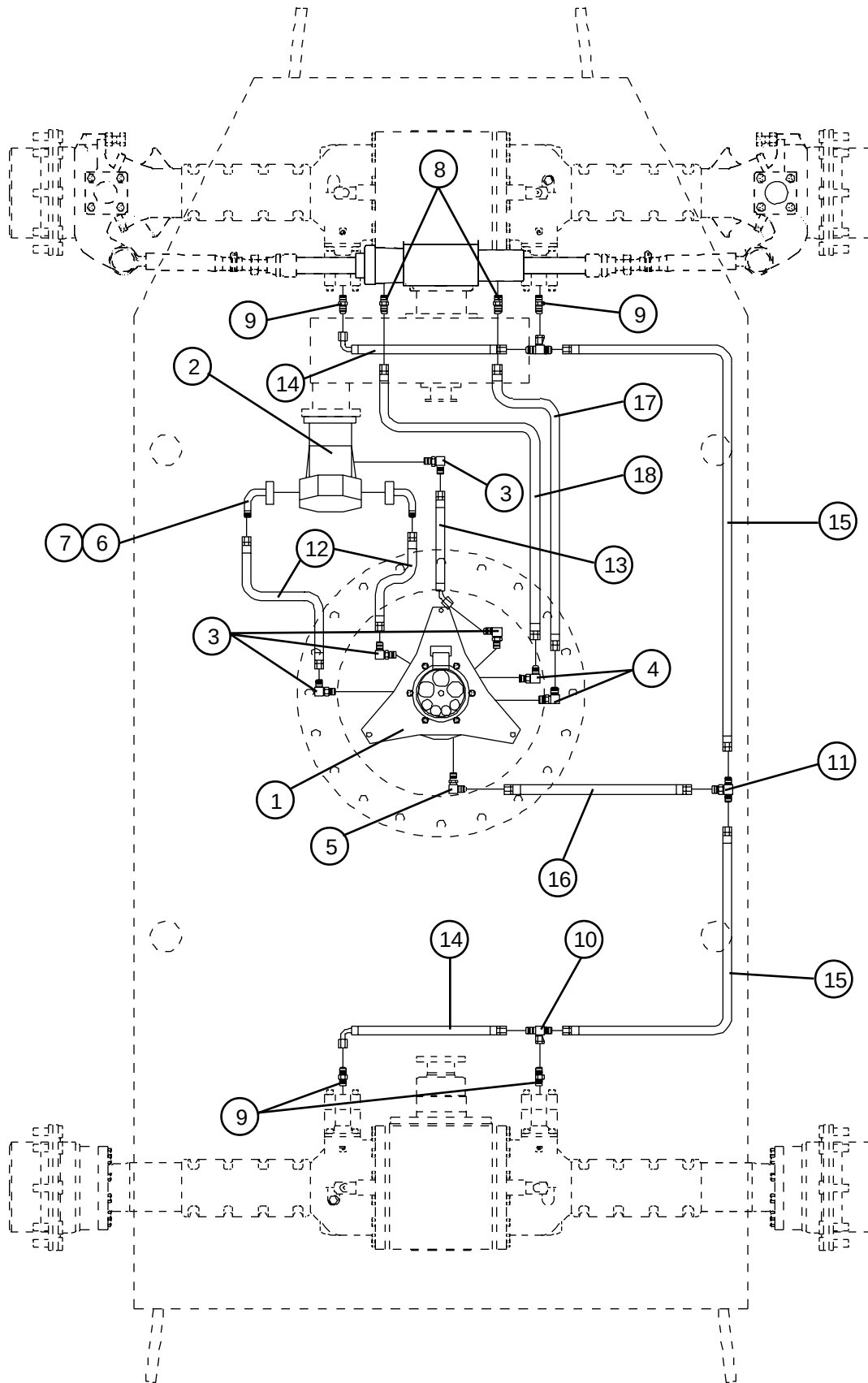


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FIGURE 6-43. BASE ASSEMBLY HYDRAULIC CONNECTIONS (Standard 4x2)

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	(Ref.)	MANIFOLD, Rotary (For components, refer to Figure 6-29.)	1
2	701544	MOTOR, Hydraulic drive	1
3	702913	CYLINDER, Steering (For components, refer to Figure 6-45.)	2
4	702117	FITTING, Elbow 90° #12orb - #12	4
5	701999	FITTING, Elbow 90° #6orb - #4	6
6	103073	FITTING, Elbow 90° #6orb - #6	1
7	702232	FITTING, Elbow 90° split flange	2
8	702233	KIT, Split flange seal	2
9	700817	FITTING, Connector #14orb - #6	2
10	703223	FITTING, Swivel tee #4 - #4 - #4	2
11	114109	FITTING, Swivel tee #6 - #6 - #6	1
12	704522	ASSEMBLY, Hose (H506 0068 00-0)	1
13	704554	ASSEMBLY, Hose (H606 0024 00-0)	1
14	703878	ASSEMBLY, Hose (H104 0078 00-0)	2
15	703875	ASSEMBLY, Hose (H104 0032 00-0)	2
16	704541	ASSEMBLY, Hose (H912 0043 02-0)	1
17	704516	ASSEMBLY, Hose (H212 0033 00-0)	2
NOTE: Refer to Standard Hose Numbering System (SECTION 5, Page 33) for explanation of hose numbering.			

FIGURE 6-44. BASE ASSEMBLY HYDRAULIC CONNECTIONS (Optional 4 x 4)



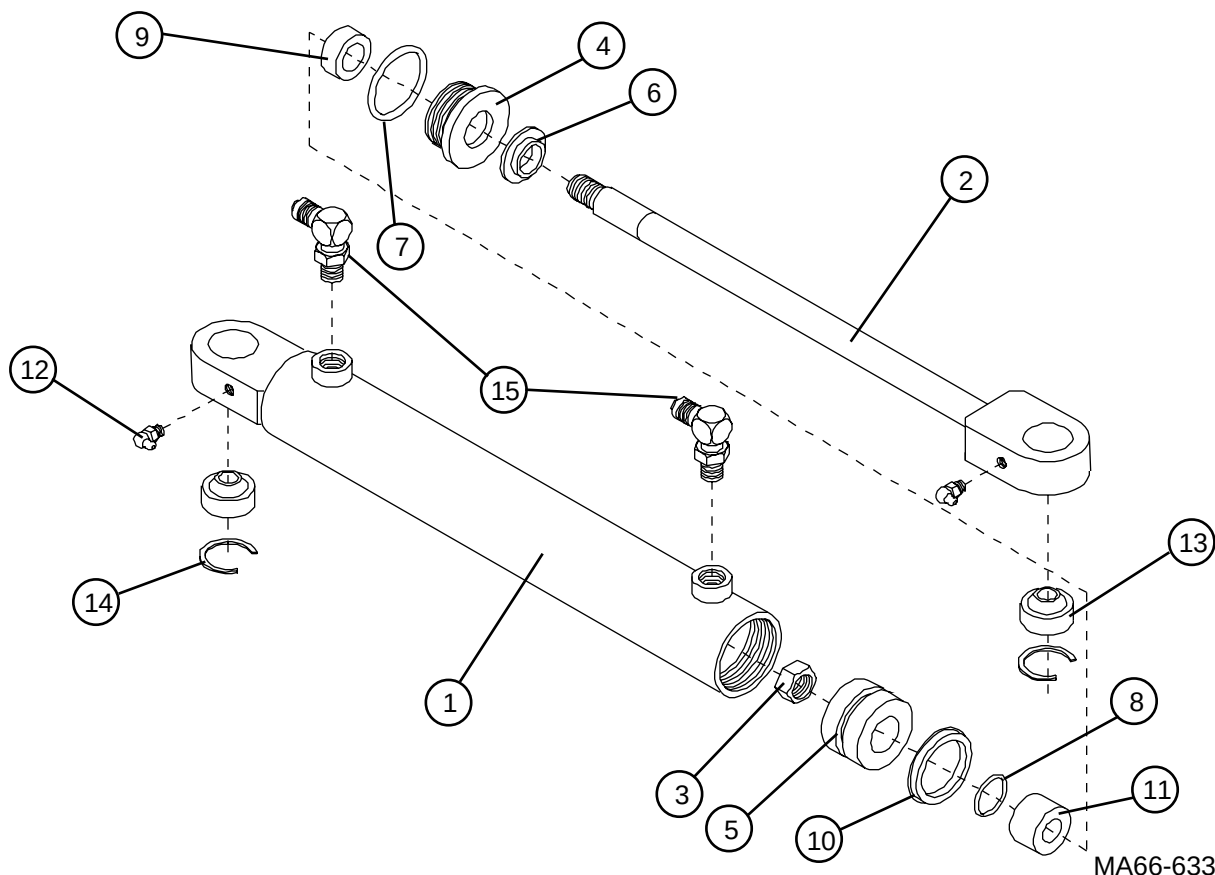
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FIGURE 6-44. BASE ASSEMBLY HYDRAULIC CONNECTIONS (Optional 4 x 4)

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	(Ref.)	MANIFOLD, Rotary (For components, refer to Figure 6-29.)	1
2	701544	MOTOR, Hydraulic drive	1
3	702117	FITTING, Elbow 90° #12orb - #12	4
4	701999	FITTING, Elbow 90° #4orb - #6	2
5	103073	FITTING, Elbow 90° #6orb - #6	1
6	702232	FITTING, Elbow 90° split flange	2
7	702233	KIT, Split flange seal	2
8	702323	FITTING, Connector #18orb - #4	2
9	700817	FITTING, Connector #14orb - #6	4
10	114109	FITTING, Swivel tee #6 - #6 - #6	2
11	702921	FITTING, Union tee #6 - #6 - #6	1
12	704516	ASSEMBLY, Hose (H212 0033 00-0)	2
13	704541	ASSEMBLY, Hose (H912 0043 02-0)	1
14	704554	ASSEMBLY, Hose (H606 0024 00-0)	2
15	703882	ASSEMBLY, Hose (H106 0047 00-0)	2
16	703881	ASSEMBLY, Hose (H106 0032 00-0)	1
17	703878	ASSEMBLY, Hose (H104 0078 00-0)	1
18	703879	ASSEMBLY, Hose (H104 0088 00-0)	1
NOTE: Refer to Standard Hose Numbering System (SECTION 5, Page 33) for explanation of hose numbering.			

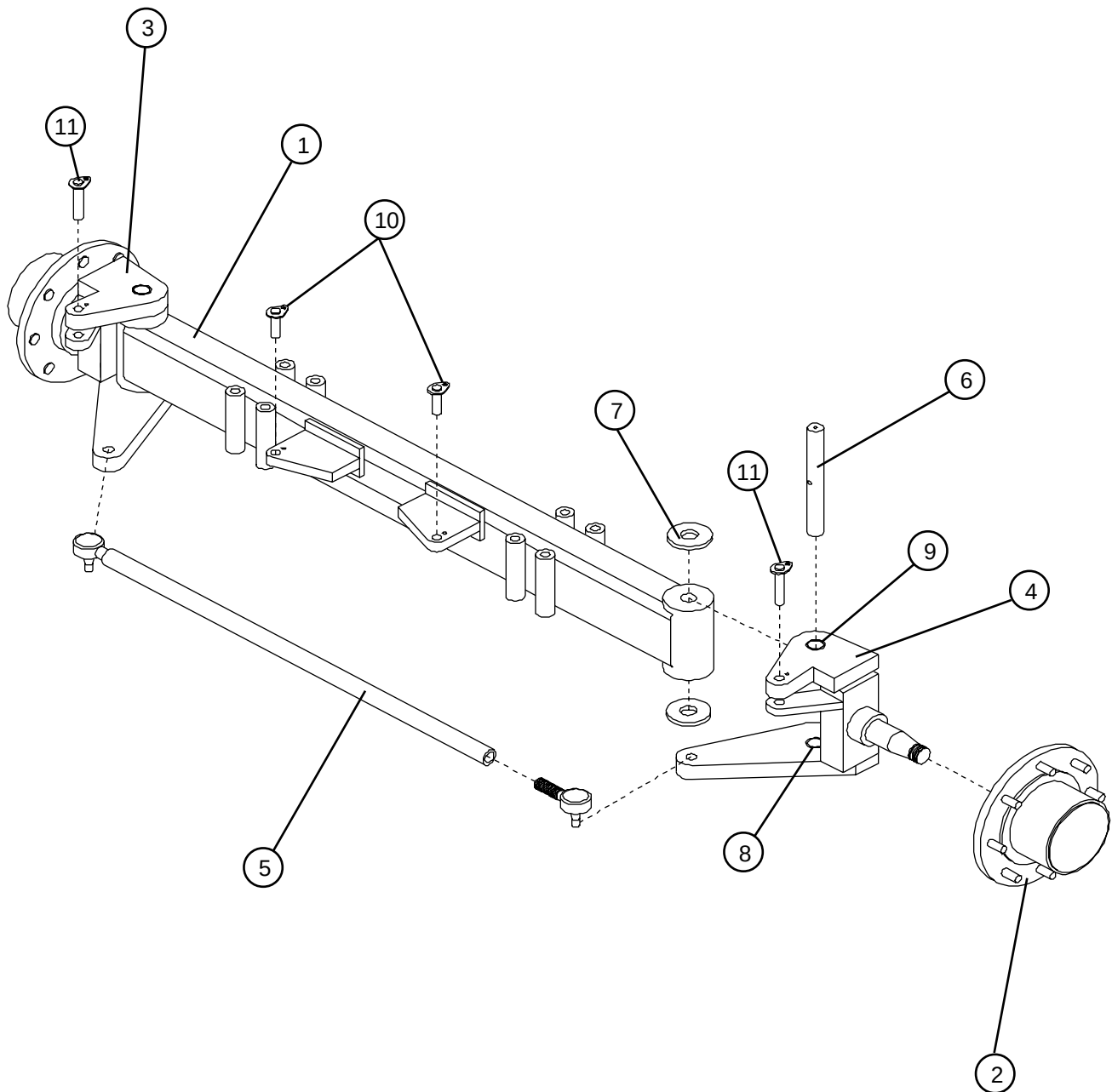
NOTES

FIGURE 6-45. STEERING CYLINDER (Standard 4x2)



Index No.	Skyjack Part No.	Description							Units per Assy.
		1	2	3	4	5	6	7	
	(Ref.)	CYLINDER ASSEMBLY, Steer							-
1	702916	• WELDMENT, Barrel							1
2	702915	• WELDMENT, Rod							1
3	700575	• NUT, Lock 3/4 - 10							1
4	700243	• GLAND, Cylinder							1
5	700242	• PISTON, Cylinder							1
6*	700578	• SEAL, Wiper							1
7*	701965	• SEAL, O-Ring							1
8*	701634	• SEAL, O-Ring							1
9*	700576	• SEAL, Rod							1
10*	700585	• SEAL, Piston							1
11	700449	• SPACER, Cylinder							1
12	700509	• NIPPLE, Grease							2
13	102025	• BEARING, Spherical							2
14	104114	• RING, Retaining							2
15	701999	• FITTING, Elbow 90° #6orb - #4							2
16	706711	• PLUG, 1/8" NPT							2
	703180	KIT, Seal repair							AR
		* Part of Seal Repair Kit							

FIGURE 6-46. STEER AXLE ASSEMBLY (Standard 4x2)

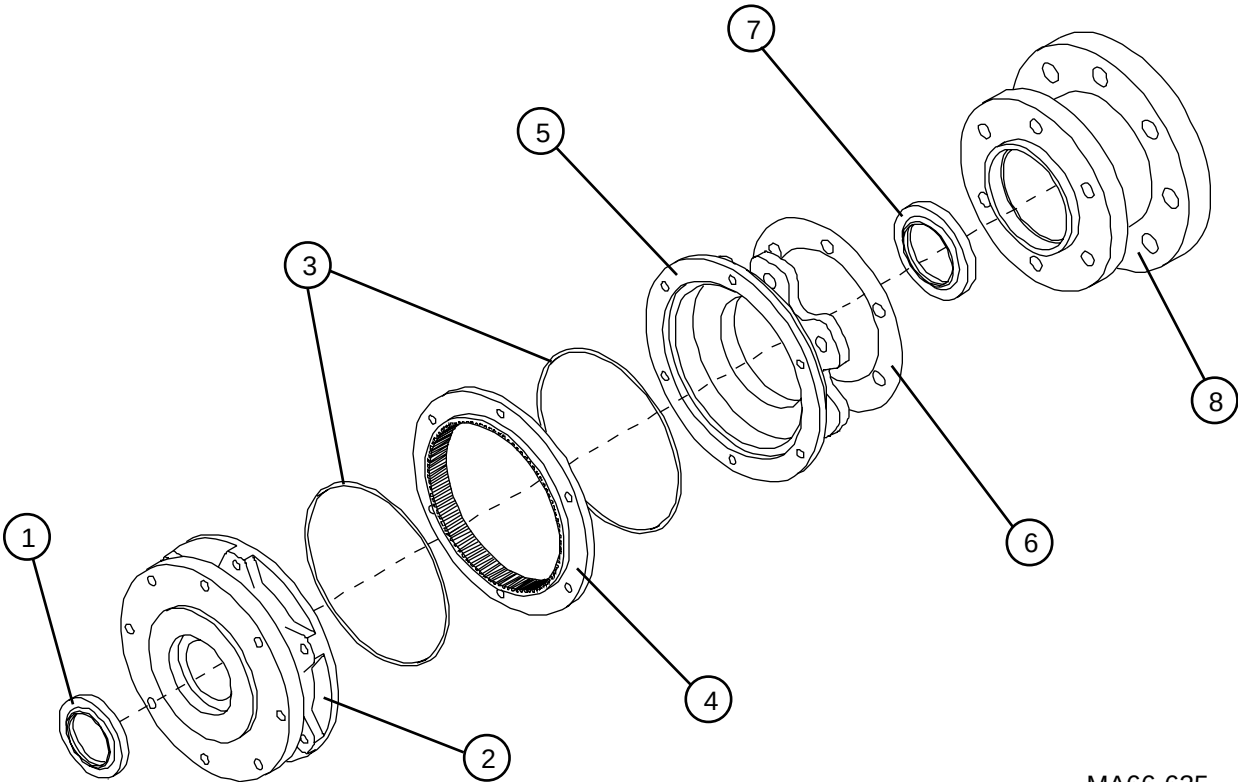


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FIGURE 6-46. STEER AXLE ASSEMBLY (Standard 4x2)

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
	702309	AXLE ASSEMBLY, Steering 2wd	-
1	704201	• AXLE WELDMENT	1
2	704202	• WHEEL HUB ASSEMBLY	2
	707074	•• HUB	1
	704203	•• CONE, Inner group	1
	704204	•• CUP, Inner group	1
	704205	•• CONE, Outer group	1
	704206	•• CUP, Outer group	1
	704207	•• SEAL, Dual element	1
	704208	•• HUB COVER	1
3	704209	• L. H. YOKE & SPINDLE	1
4	704210	• R. H. YOKE & SPINDLE	1
5	704190	• ASSEMBLY, Tie Rod	1
	704191	•• TUBE, Tie Rod	1
	704192	•• TIE ROD END, L. H.	1
	704193	•• TIE ROD END, R. H.	1
	704194	•• JAM NUT, L. H.	1
	704195	•• JAM NUT, R. H.	1
6	704211	• ASSEMBLY, King Pin	2
7	704212	• WASHER, Thrust	4
8	704213	• BUSHING, Tie rod arm	2
9	704214	• BUSHING, Cylinder mount arm	2
10	704555	• PIN, Axle cylinder mount	2
11	704556	• PIN, Yoke cylinder mount	2

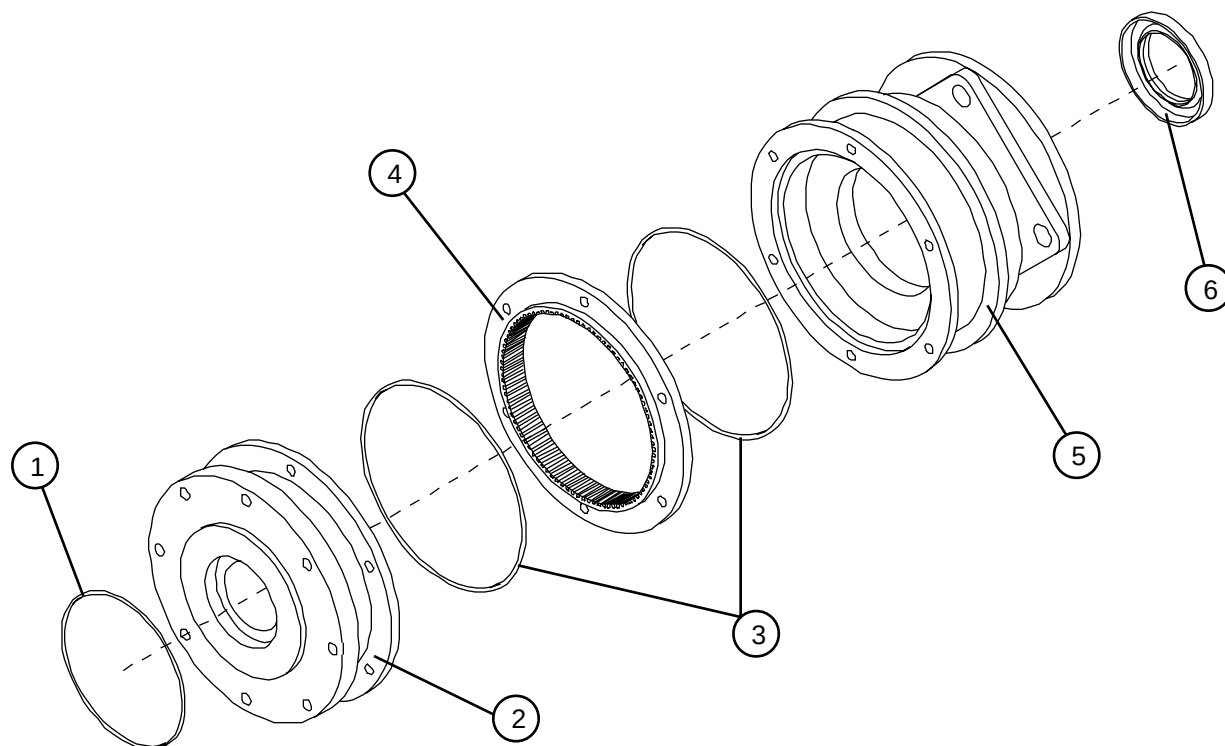
FIGURE 6-47. PLANETARY REDUCTION GEAR ASSEMBLY (Brevini)



MA66-635

Index No.	Skyjack Part No.	Description							Units per Assy.
		1	2	3	4	5	6	7	
1	701841	LIP SEAL, Output housing							1
2	\$	HOUSING, Output							1
3	701849	O-RING SEAL							2
4	\$	RING GEAR							1
5	\$	HOUSING, Input							1
6	704233	GASKET, Input adapter							1
7	701842	LIP SEAL, Input adapter							1
8	701030	HOUSING, Input adapter							1
		\$ Consult factory							

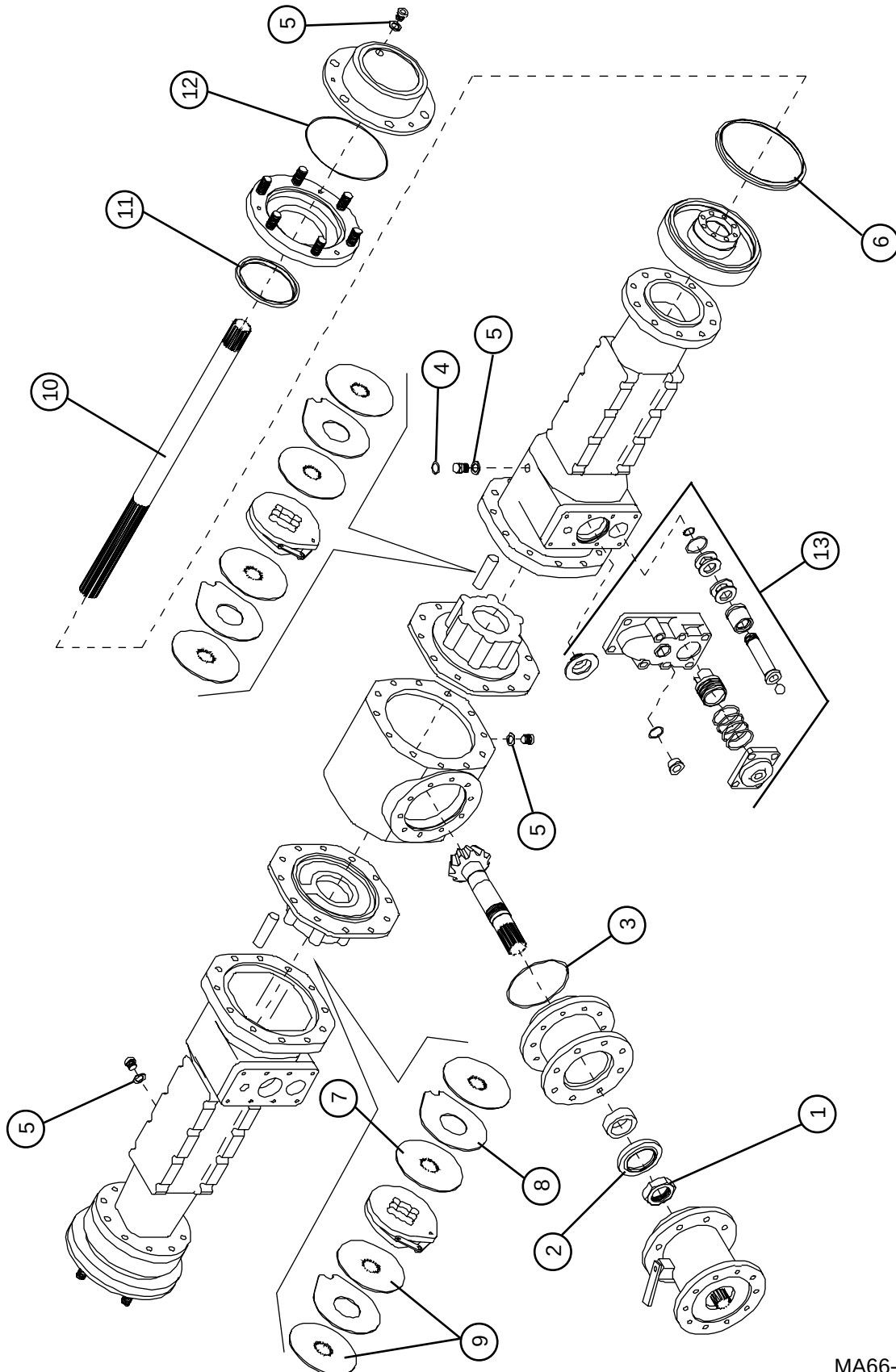
FIGURE 6-48. PLANETARY REDUCTION GEAR ASSEMBLY (Sige)



MA66-636

Index No.	Skyjack Part No.	Description							Units per Assy.
		1	2	3	4	5	6	7	
1	704234	O-RING, Output housing							1
2	\$	HOUSING, Output							1
3	704235	O-RING SEAL							2
4	\$	RING GEAR							1
5	\$	HOUSING, Input							1
6	704236	LIP SEAL, Input housing							1
		\$ Consult factory							

FIGURE 6-49. DRIVE AXLE ASSEMBLY (Standard 4x2)

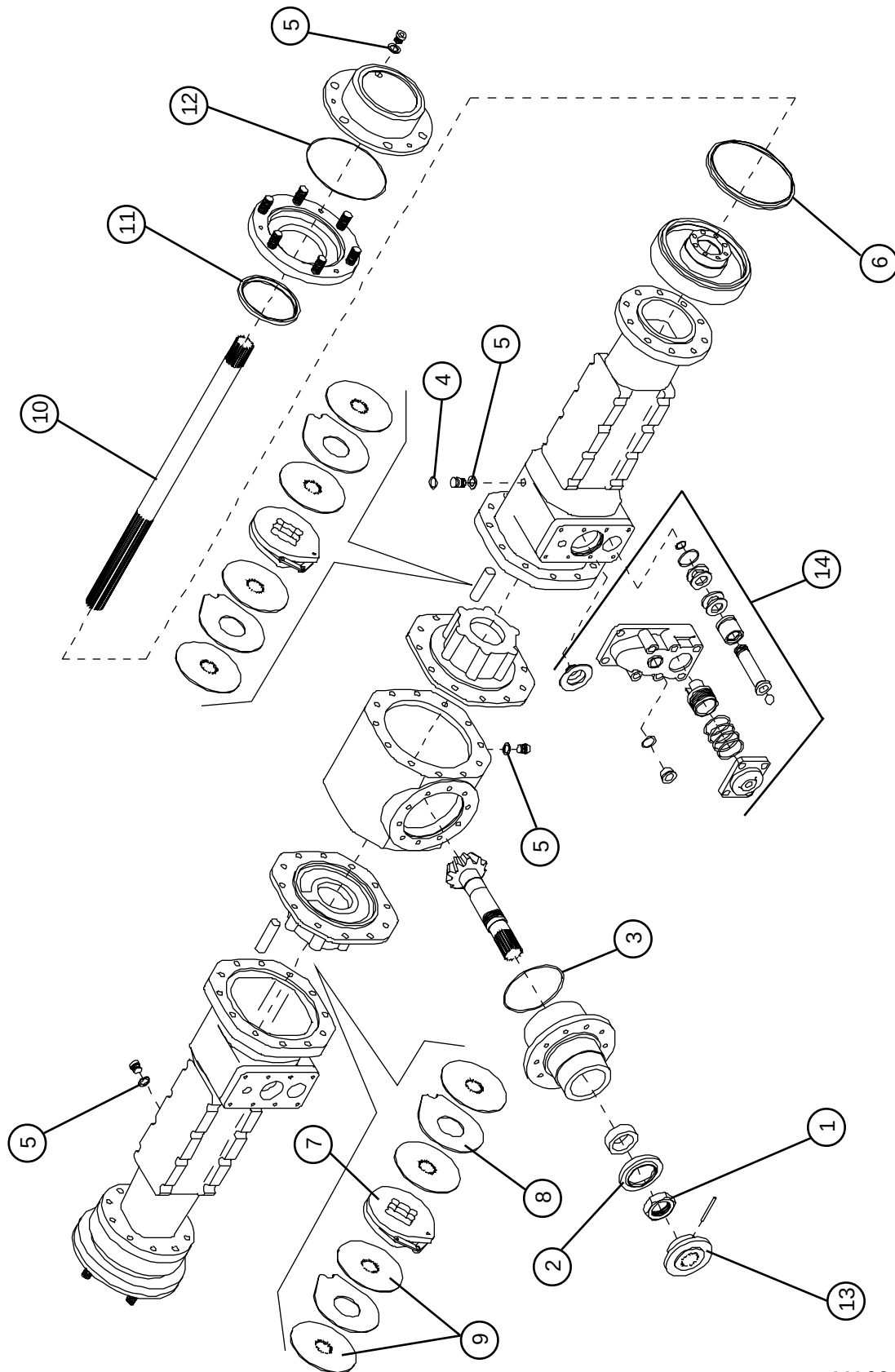


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FIGURE 6-49. DRIVE AXLE ASSEMBLY (Standard 4x2)

Index No.	Skyjack Part No.	Description							Units per Assy.
		1	2	3	4	5	6	7	
	701699	AXLE ASSEMBLY, Rigid drive							-
1	701836	• NUT, Pinion retaining							1
2	704221	• OIL SEAL, Pinion							1
3	701848	• SEAL, O-ring							1
4	701851	• SEAL, O-ring							1
5	701843	• WASHER, Oil plug							5
6	704215	• COVER, Dust							2
7	701845	• ACTUATOR, Brake							2
8	701846	• BRAKE DISK, Intermediate							6
9	701847	• BRAKE DISK, Friction							10
10	704216	• SHAFT, Axle							2
11	704217	• SEAL, Hub oil							2
12	704218	• SEAL, O-ring							2
13	(Ref.)	• BRAKE ASSEMBLY (For components, refer to Figure 6-52.)							2

FIGURE 6-50. RIGID AXLE ASSEMBLY (Optional 4x4)

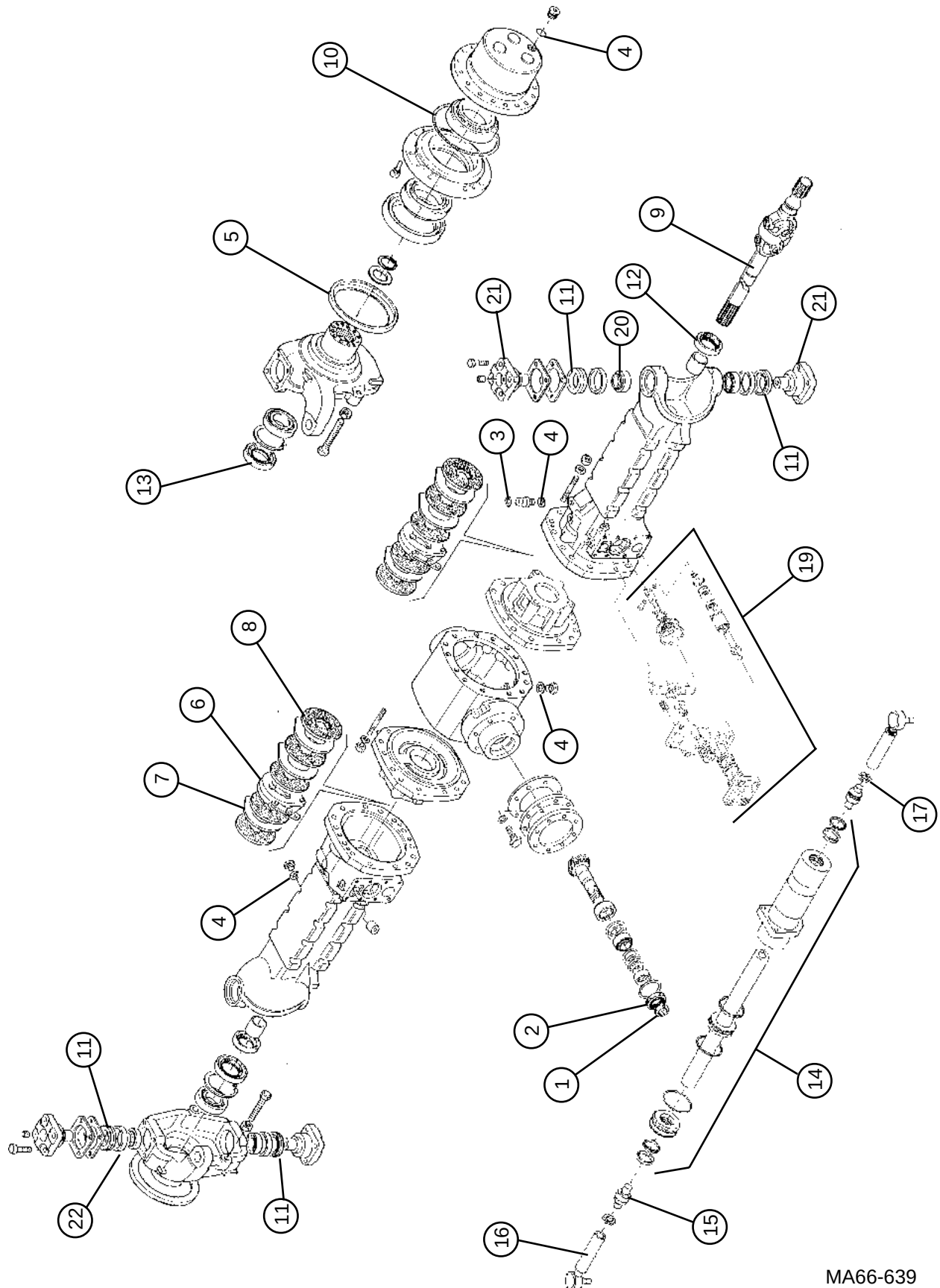


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FIGURE 6-50. RIGID AXLE ASSEMBLY (Optional 4x4)

Index No.	Skyjack Part No.	Description							Units per Assy.
		1	2	3	4	5	6	7	
	701454	AXLE ASSEMBLY, Rigid drive							-
1	701836	• NUT, Pinion retaining							1
2	701837	• OIL SEAL, Pinion							1
3	701848	• SEAL, O-ring							1
4	701851	• SEAL, O-ring							1
5	701843	• WASHER, Oil plug							5
6	704215	• COVER, Dust							2
7	701845	• ACTUATOR, Brake							2
8	701846	• BRAKE DISK, Intermediate							6
9	701847	• BRAKE DISK, Friction							10
10	704216	• SHAFT, Axle							2
11	704217	• SEAL, Hub oil							2
12	704218	• SEAL, O-ring							2
13	704232	• FLANGE ASSEMBLY							1
14	(Ref.)	• BRAKE ASSEMBLY (For components, refer to Figure 6-52.)							2

FIGURE 6-51. STEER AXLE ASSEMBLY (Optional 4x4)

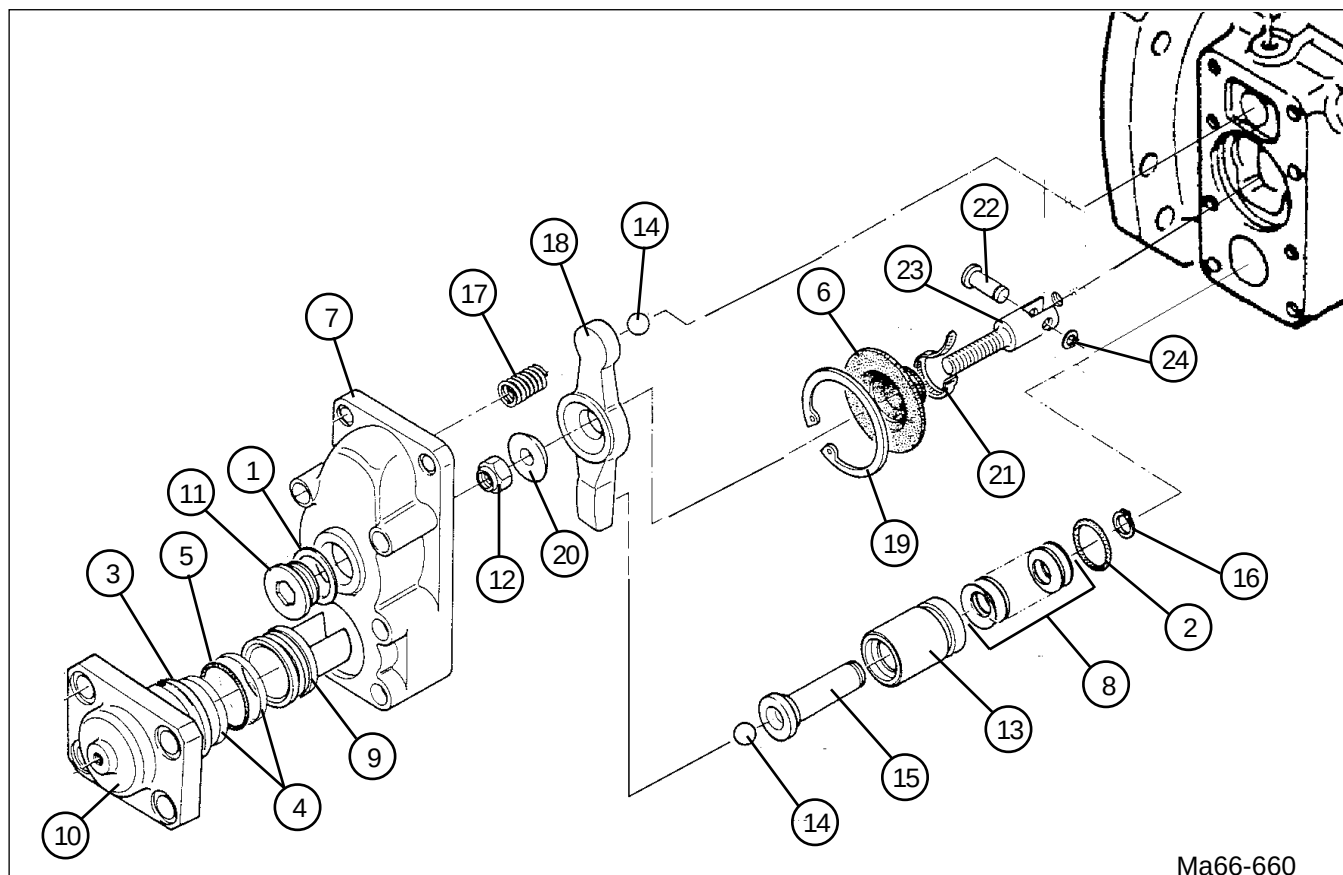


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FIGURE 6-51. STEER AXLE ASSEMBLY (Optional 4x4)

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
	701453	AXLE ASSEMBLY, Rigid drive	-
1	701836	• NUT, Pinion retaining	1
2	704221	• OIL SEAL, Pinion	1
3	701851	• SEAL, O-ring	1
4	701843	• WASHER, Oil plug	5
5	704215	• COVER, Dust	2
6	701845	• ACTUATOR, Brake	2
7	701846	• BRAKE DISK, Intermediate	6
8	701847	• BRAKE DISK, Friction	10
9	704241	• SHAFT ASSEMBLY, Axle	2
	706539	• • JOINT, Universal	4
10	704218	• SEAL, O-ring	2
11	708406	• SEAL, Oil	4
12	704239	• SEAL, Shaft	2
13	704240	• SEAL, Shaft	2
14	706537	• CYLINDER ASSEMBLY, Steer	1
	706538	• • KIT, Seal repair	AR
15	704243	• JOINT, Axial	2
16	706536	• TIE ROD END	2
17	706535	• NUT, Steer arm	2
18	(Ref.)	• TRANSFER CASE (not shown) (For components, refer to Figure 6-53.)	1
19	(Ref.)	• BRAKE ASSEMBLY (For components, refer to Figure 6-52.)	2
20	708395	• BEARING/CONE ASSEMBLY	4
21	708404	• PIN, Seeger	4
22	708405	• SPACER	4

FIGURE 6-52. BRAKE ASSEMBLY



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Index No.	Skyjack Part No.	Description							Units per Assy.
		1	2	3	4	5	6	7	
1	701844	WASHER, Oil Plug							1
2	701852	SEAL, O-ring							1
3	701890	SEAL, O-ring (housing)							1
4	704231	BACKING RING, Seal							2
5	704219	SEAL, O-ring (piston)							1
6	701853	SEAL, Spring							1
7	703045	COVER, Brake							1
8	115383	WASHER, Bellville							16
9	706544	PISTON, Brake							1
10	706545	FLANGE							1
11	708982	PLUG							1
12	708983	NUT, Tristop M 12							1
13	707096	BUSHING							1
14	119101	BALL							2
15	708984	PIN							1
16	708985	SNAP RING, E 16x1							1
17	708986	SPRING							1
18	708987	BRAKE FORK							1
19	708988	SNAP RING							1
20	708989	THRUST WASHER							1
21	708990	SPRING CLIP							1
22	708991	PIN							1
23	708992	FORK							1
24	708993	SNAP RING E 9							1

FIGURE 6-53. TRANSFER CASE ASSEMBLY (Optional 4x4 only)

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Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	706540	SEAL, O-ring	1
2	706541	SEAL, Oil	1
3	701843	WASHER, Oil seal	3
4	706542	SEAL, Oil	1
5	704220	SEAL, O-ring	1

FIGURE 6-54. LABELS AND NAMEPLATES

Index No.	English Labels	Dutch Labels	French Labels	German Labels	Portuguese Labels	Spanish Labels	England Labels	Danish Labels	Swedish Labels	Description	Units per Assy.
										1 2 3 4 5 6 7	
A	710989	710994	710992	710991	710995	710993	710990	710996	710997	KIT, Service labels and nameplates (Diesel)	-
B	704552	710985	710983	710982	710986	710984	710981	710987	710988	KIT, Service labels and nameplates (Dual Fuel) (Consists of items 1-35.)	
1	700026	707429	707495	702973	708042	707561	700026	708109	708176	• LABEL, Danger	1
2	700028	708569	708567	708566	708575	708568	707734	708576	708577	• LABEL, Design standards	1
3	700032	707433	707499	702983	708046	707565	700032	708113	708180	• LABEL, Attach safety belt	1
4	700035	707435	707501	702978	708048	707567	700035	708115	708182	• LABEL, Annual inspection	1
5	700107	707437	707503	702964	708050	707569	700107	708117	708184	• LABEL, Attach lanyard	2
6	700551	707440	707506	702984	708053	707572	700551	708120	708187	• LABEL, Warning hazards	1
7	108666	707426	707492	702975	708039	707558	108666	708106	708173	• LABEL, Use original parts	2
8	106691	707424	707490	702977	708037	707556	106691	708104	708171	• LABEL, Checklist	1
9	702739	707457	707523	706261	708070	707589	702739	708137	708204	• LABEL, Tie down	2
10	702738	707456	707522	706256	708069	707588	702738	708136	708203	• LABEL, Manual stow	1
11	703854	707474	707540	706254	708086	707606	703854	708153	708220	• LABEL, Caution stow	1
12	106705	707425	707491	702963	708038	707557	106705	708105	708172	• LABEL, Do not alter	6
13	702005	707451	707517	702969	708064	707583	702005	708131	708198	• LABEL, Danger brake release	1
14	703727	707472	707538	706257	708084	707604	703727	708151	708218	• LABEL, ATF only	2
15	117294	707428	707494	706860	708041	707560	117294	708108	708175	• LABEL, Manuals	1
16	702013	707452	707518	706262	708065	707584	702013	708132	708199	• LABEL, Danger explosive	1
17	702737	707455	707521	706249	708068	707587	702737	708135	708202	• LABEL, Emergency lowering	2
18	702782	707461	707527	706252	708073	707593	702782	708140	708207	• LABEL, Unleaded only (Gas\Dual fuel only), B	2
	702781	707460	707526	706251	708072	707592	702781	708139	708206	• LABEL, Diesel only (Diesel only), A	2
19	710497	710617	710620	710609	710619	710618	710497	710616	710621	• LABEL, Pinch point	2
20	706410	707485	707551	706733	708097	707617	706410	708164	708231	• LABEL, Transportation lock	1
21	706425	707487	707553	706735	708099	707619	706425	708166	708233	• LABEL, Warning disconnect power	2
22	706028	707481	707547	706223	708093	707613	706028	708160	708227	• LABEL, Pressure override valve	1
23	-----	117023	117023	117023	117023	117023	117023	117023	117023	• LABEL, CE Approval (European only)	4
24	703760	707473	707539	706220	708085	707605	703760	708152	708219	• LABEL, Misuse of boom	1
25	704497	707477	707543	706222	708089	707609	704497	708156	708223	• LABEL, Brake Manifold	1
26	704498	707478	707544	706217	708090	707610	707478	708157	708224	• LABEL, Pinch point	1
27	706389	707484	707550	706732	708096	707616	706389	708163	708230	• LABEL, Caution adjustment	1
28	702461	707454	707520	706263	708067	707586	702461	708134	708201	• LABEL, Proportional valve	1
29	702322	707453	707519	706258	708066	707585	702322	708133	708200	• LABEL, Throttle control (Gas\Dual fuel only), B	1
	703480	707469	707535	706242	708081	707601	703480	708148	708215	• LABEL, Throttle control (Diesel only), A	1
30	709374	709376	709377	709375	709379	709378	709374	709380	\$	• LABEL, Engine specifications (Serial Number 93234 and Above) (Gas\Dual fuel only), B	1
	702779	707458	707524	706253	708071	707590	702779	708138	708205	• LABEL, Engine specifications (Serial Number 93233 and Below) (Gas\Dual fuel only), B	1
	703262	707465	707531	706250	708077	707597	703262	708144	708211	• LABEL, Engine specifications (Diesel only), A	1
31	-----	708838	708836	708835	708839	708837	707736	708840	708841	• LABEL, European load	2
32	706411	707486	707552	706734	708098	707618	706411	708165	708232	• LABEL, Battery disconnect	1
33	707633	708316	708314	708313	708317	708315	707633	708318	708319	• LABEL, Drive operation	1
34	702014	710740	710738	710739	710741	710742	702014	710737	710743	• MANUAL, Operator (Not shown)	1
35	711006	711006	711006	711006	711006	711006	711006	711006	711006	• DRAWING, Label placement (Not shown)	1
36	701609	701609	701609	701609	701609	701609	701609	701609	701609	LABEL, Serial plate 66TK (Consult factory)	1
37	700031	707432	707498	702979	708045	707564	700031	708112	708179	LABEL, Platform capacity 500 lbs. (30 x 120, load sense only)	3
38	701605	707448	707514	706247	708061	707580	707448	708128	708195	LABEL, Platform capacity 600 lbs. (30 x 72, 30 x 96 only)	3
39	701604	701604	701604	701604	701604	701604	701604	701604	701604	LABEL, Skyjack (9.93 x 60.00)	2
40	701612	701612	701612	701612	701612	701612	701612	701612	701612	LABEL, Skyjack (12.00 x 72.50)	1
41	701697	701697	701697	701697	701697	701697	701697	701697	701697	LABEL, Blue/white stripping 6"	492"
42	702012	702012	702012	702012	702012	702012	702012	702012	702012	LABEL, TK	1
43	103125	103125	103125	103125	103125	103125	103125	103125	103125	LABEL, Blue/white stripping	180"
44	701603	701603	701603	701603	701603	701603	701603	701603	701603	LABEL, SJB-66TK	3
45	701611	701611	701611	701611	701611	701611	701611	701611	701611	LABEL, 66TK	2
46	701610	701610	701610	701610	701610	701610	701610	701610	701610	LABEL, 66TK 4 x 2 (4 x 2 machines only)	1
47	701606	701606	701606	701606	701606	701606	701606	701606	701606	LABEL, 66TK 4 x 4 (4 x 4 machines only)	1
48	708018	708018	708018	708018	708018	708018	708018	708018	708018	LABEL, Register large	2
49	708019	708019	708019	708019	708019	708019	708019	708019	708019	LABEL, Register small	5
										NOTE: Items 36 thru 49 not included in Service Label Kit, order separately. Supply Model Number and Serial Number when ordering complete machine labels.	

FIGURE 6-54. LABELS AND NAMEPLATES

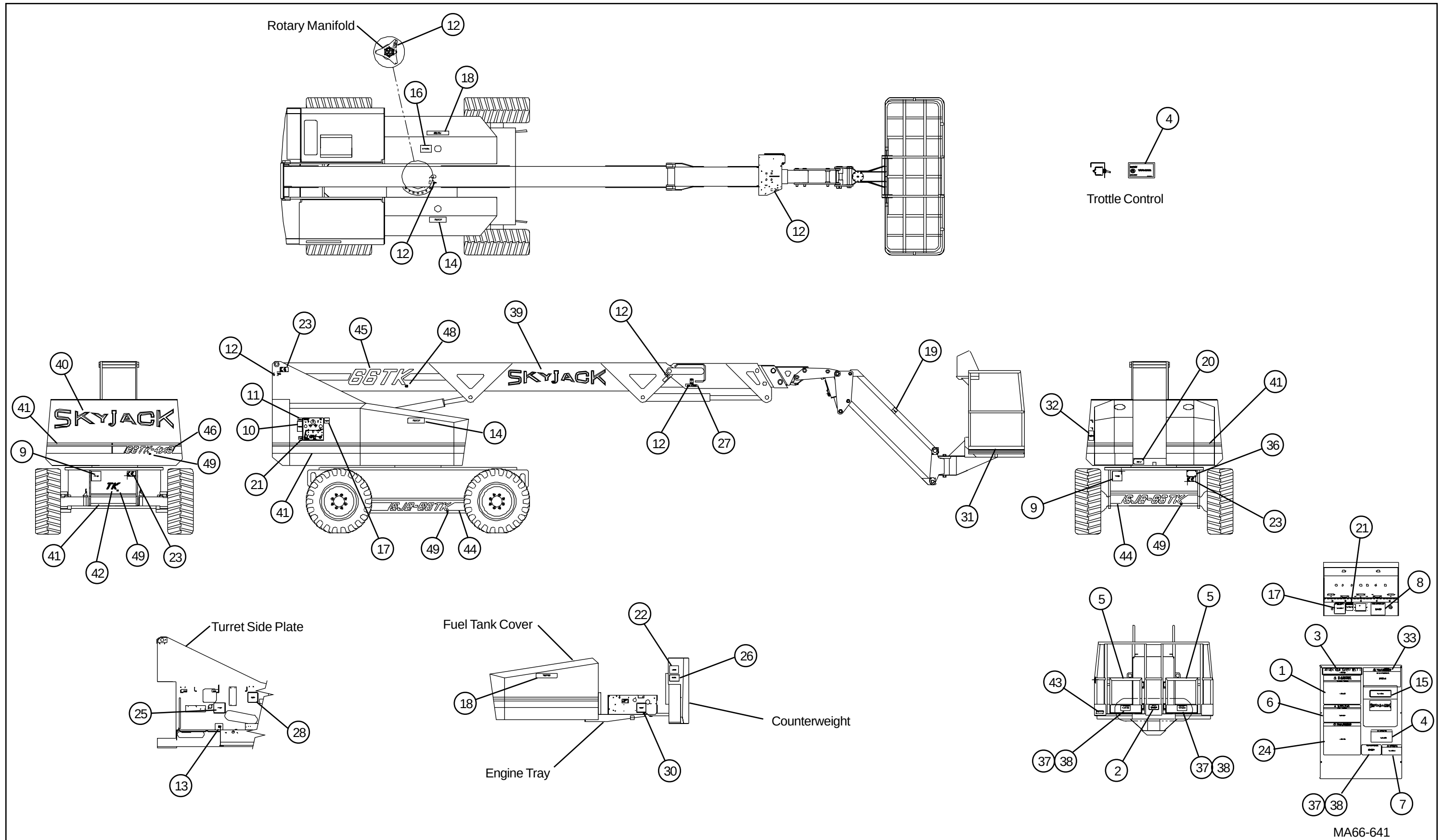
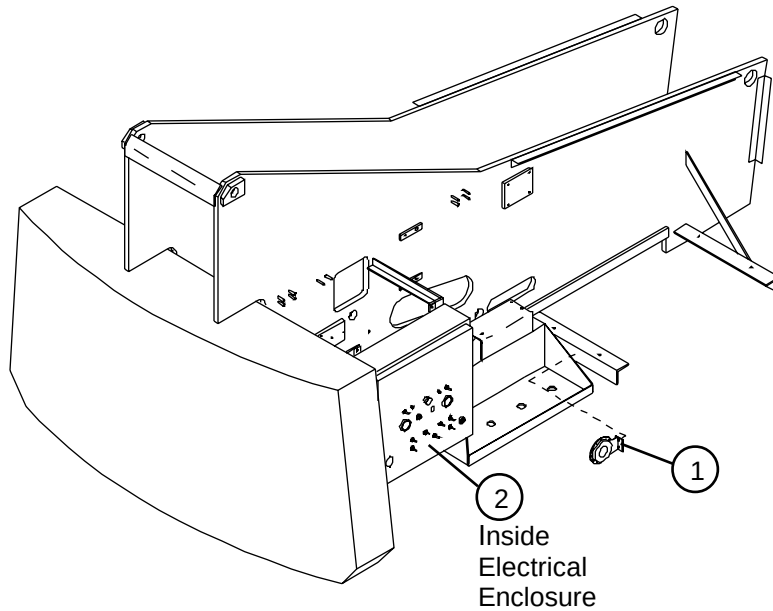
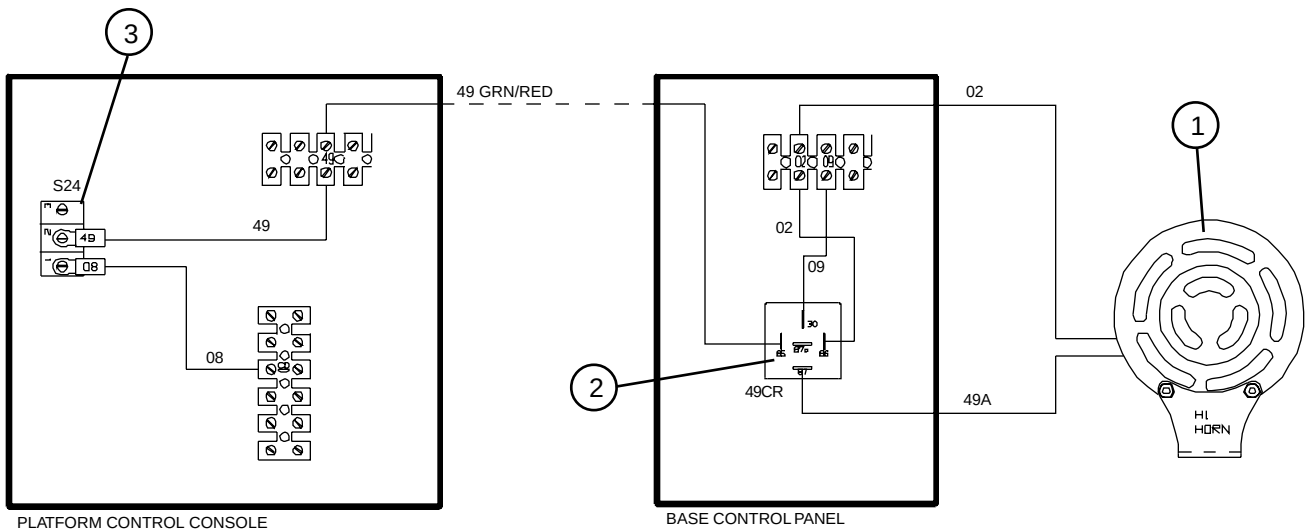


FIGURE 6-55. ALL MOTION ALARM OPTION

MA66-662

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	703438	ALL MOTION ALARM OPTION	-
	703321	• ALARM, Motion	1
	702456	•• WIRE, Yellow\Purple 16 Ga.	48"
	702354	•• WIRE, Yellow\Green 16 Ga.	6"
	109210	•• TERMINAL RING, 16 Ga. x 5/16"	1
	102955	•• TERMINAL RING, 16 Ga. x #6	2
	704307	•• LOOM, Corrugated .250" I.D.	36"
	103962	•• BOLT, Machine hd #10-32 x .50" lg.	2
	104694	•• WASHER, Flat #10	2
	104185	•• WASHER, Lock #10	2
	104003	•• NUT, Hex #10-32	2

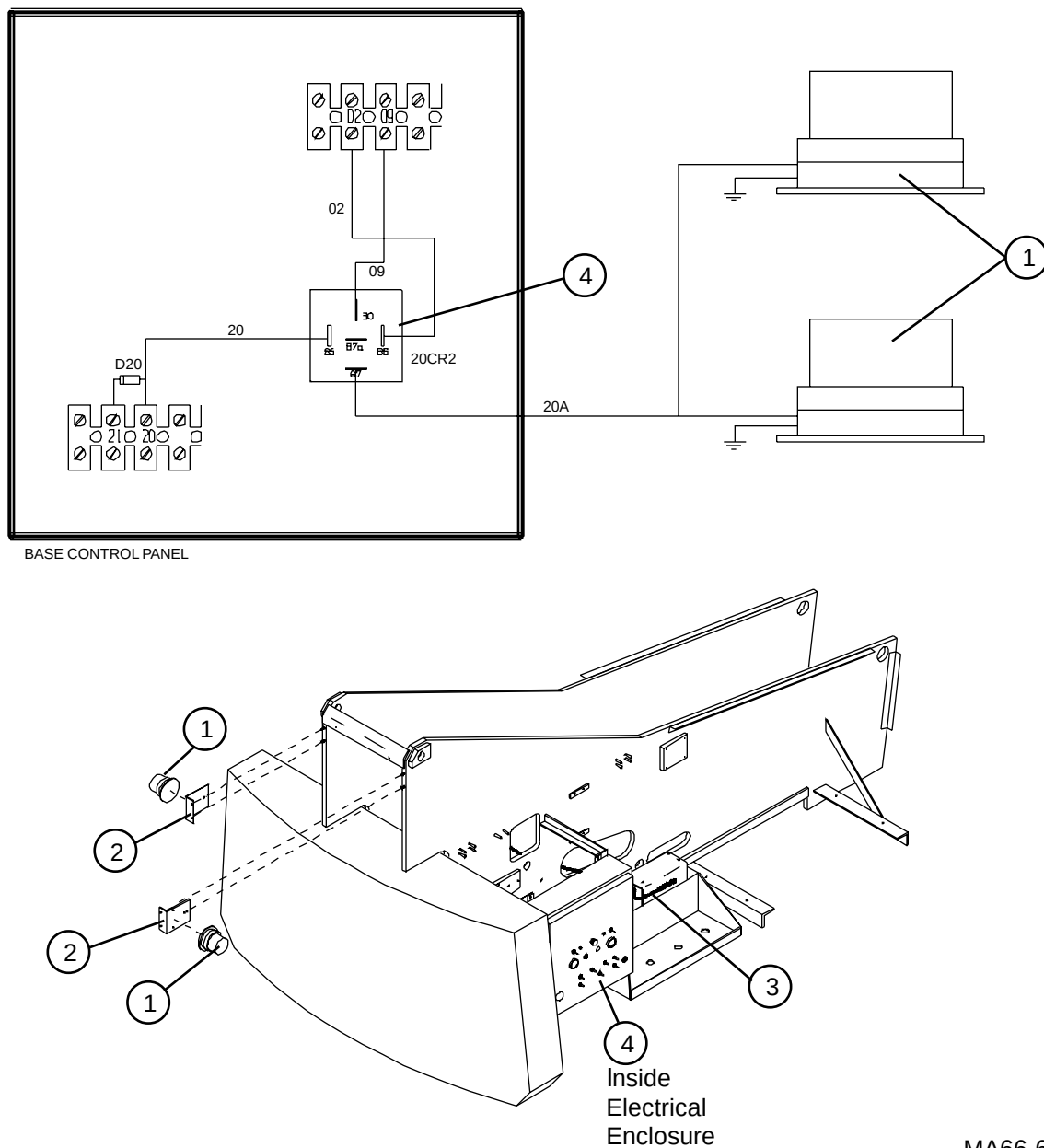
FIGURE 6-56. HORN OPTION



MA66-646

Index No.	Skyjack Part No.	Description							Units per Assy.
		1	2	3	4	5	6	7	
1	703440	HORN OPTION							-
2	703322	• HORN							1
3	701943	• RELAY, 12V							1
	701929	• SWITCH, Momentary Toggle							1
	707394	• • GUARD, Toggle switch							1

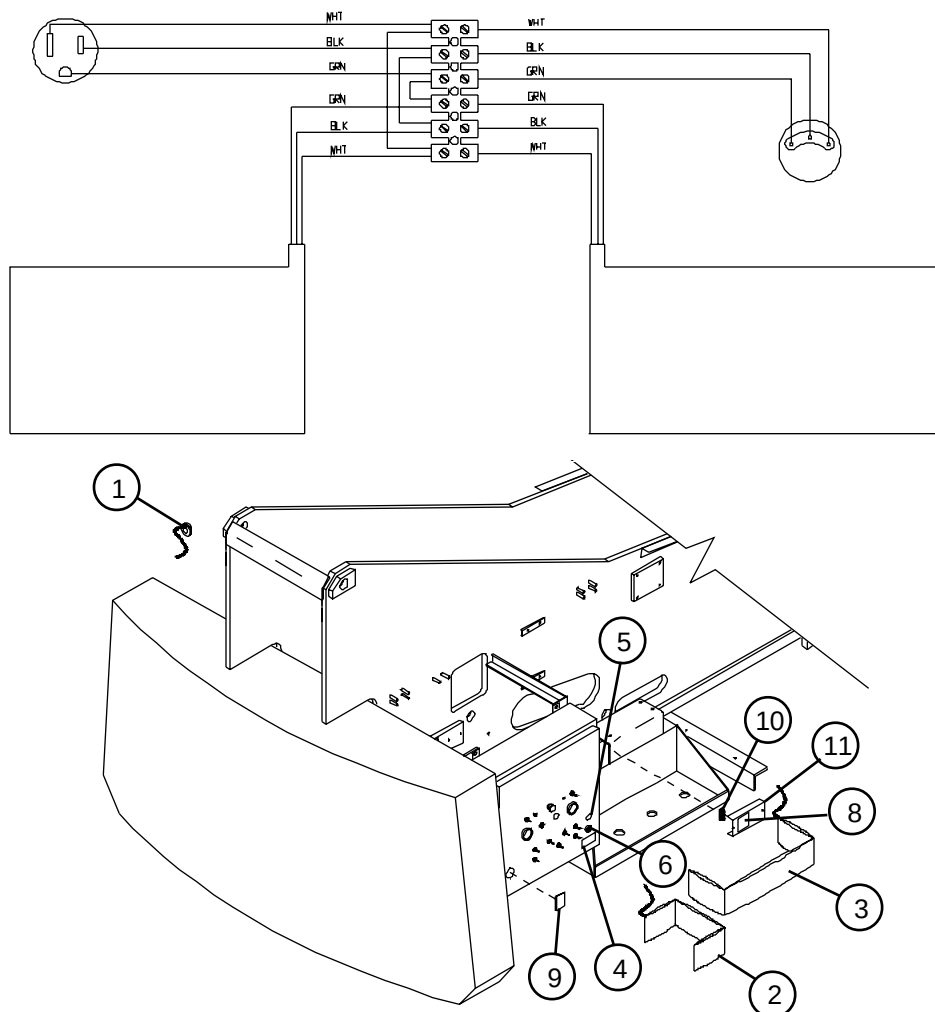
FIGURE 6-57. FLASHING LIGHT OPTION



MA66-647

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	703397	FLASHING LIGHT OPTION	-
2	703323	LIGHT, Flashing - 12v	2
3	704341	MOUNTING BRACKET, Flashing light	2
4	103256	CABLE, 18/2 cab tire	200"
	701943	RELAY, 12VDC sealed	1

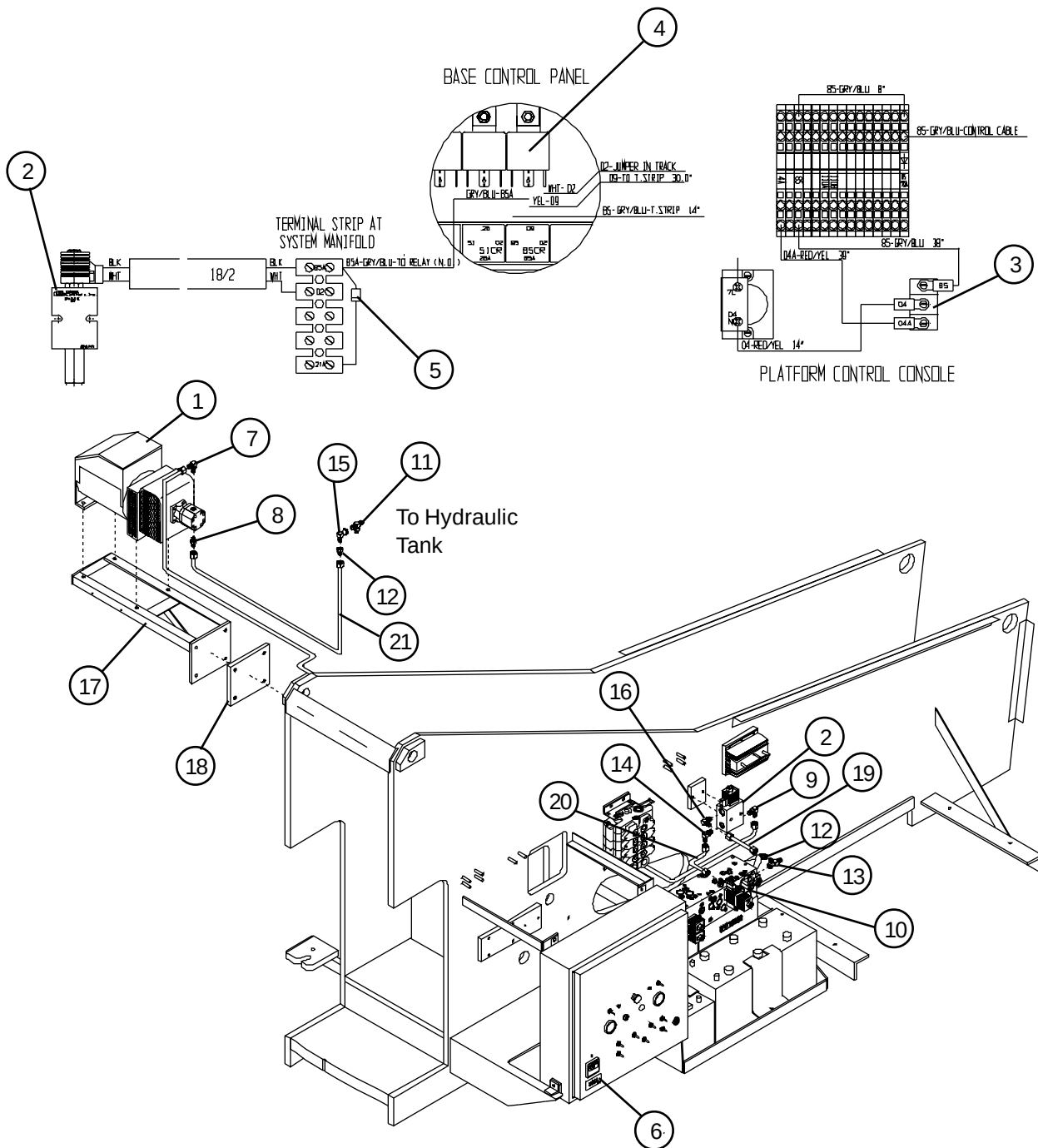
FIGURE 6-58. COLD WEATHER START OPTION



MA66-653

Index No.	Skyjack Part No.	Description							Units per Assy.
		1	2	3	4	5	6	7	
A	703451	COLD WEATHER START KIT (Gas/Dual Fuel)							-
B	703452	COLD WEATHER START KIT (Diesel)							-
1	703288	• HEATER, Coolant Immersion, A							1
2	115208	• BLANKET, Emergency battery 28"							2
3	703290	• BLANKET, Engine battery 36"							1
4	703454	• LABEL, Cold weather start 1-5x3							1
5	(Ref.)	• LIGHT ASSEMBLY							
	703455	• LAMP HOLDER							1
	703456	• LAMP LENS							1
	703457	• LAMP NEON							1
6	105271	• PLUG, Recessed male 110V							1
	113227	• COVER, Seal title							1
7	105269	• CABLE, 14/3 Cab tire, A							419"
	105269	• CABLE, 14/3 Cab tire, B							250"
8	703517	• LABEL, Warning 115V AC							1
9	703572	• COVER, 110V Outlet 2x2.75							1
10	103011	• TERMINAL STRIP, Large							.5
11	702667	• GUARD, Terminal strip							1

FIGURE 6-59. HYDRAULIC GENERATOR OPTION

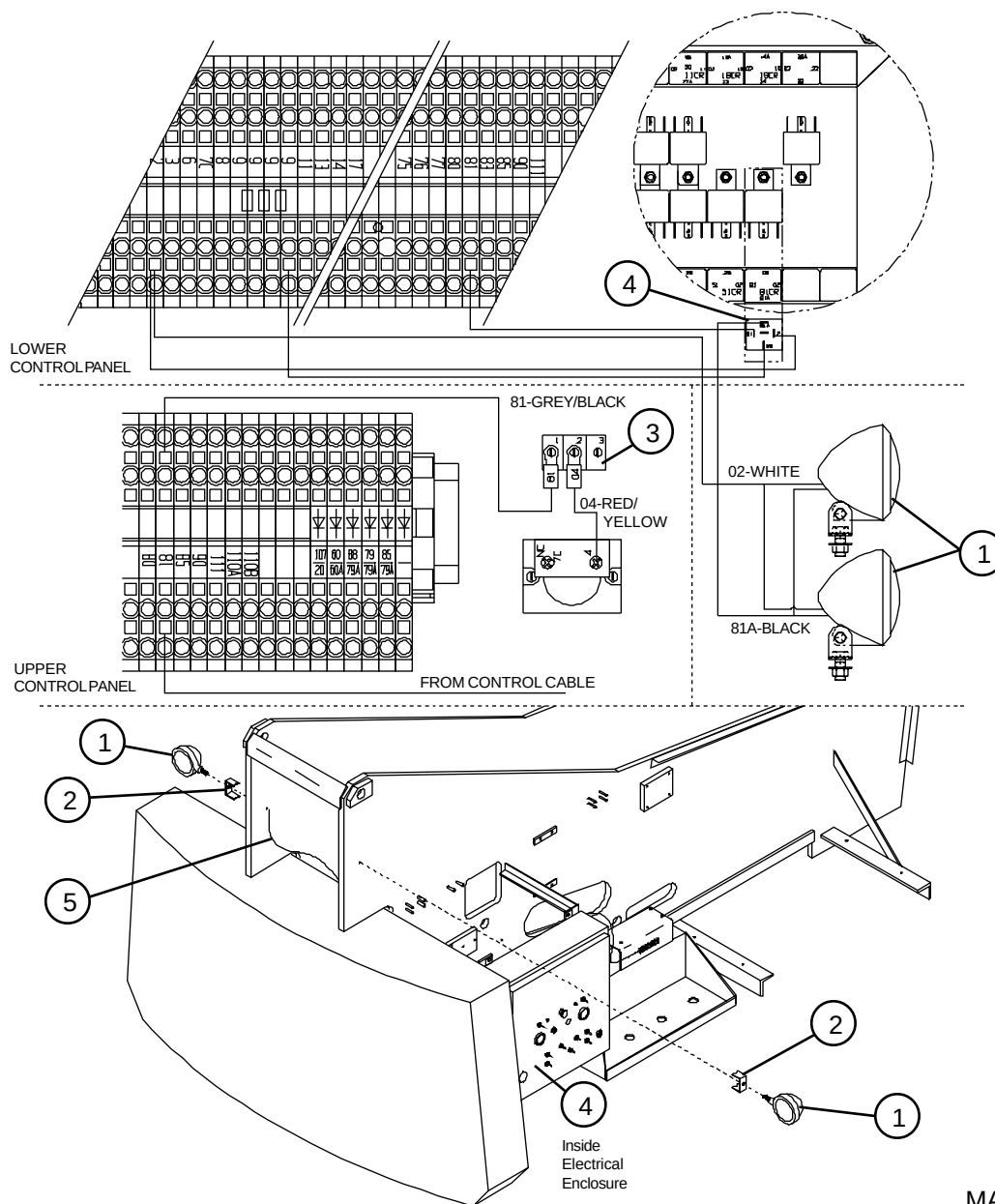


MA66-648

FIGURE 6-59. HYDRAULIC GENERATOR OPTION

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	703404	HYDRAULIC GENERATOR OPTION, 115VAC - 60HZ	-
	708875	HYDRAULIC GENERATOR OPTION, 230VAC - 50HZ	-
	703516	• HYDRAULIC GENERATOR, 115VAC - 60HZ	1
	708877	• HYDRAULIC GENERATOR, 230VAC - 50HZ	1
	103886	•• BOLT, HHCS 5/16"-18x1-1/2"	4
	103996	•• WASHER, Flat 5/16"	4
	103404	•• WASHER, Lock 5/16"	4
	100397	•• NUT, Hex 5/16"-18	4
2	703297	• MANIFOLD, Hydraulic Generator	1
	703867	•• VALVE, Solenoid	1
		•• COIL	1
	703868	•• VALVE, Flow control	1
3	702674	•• BOLT, HHCS 1/4"-20x4"	2
	104000	•• WASHER, Lock 1/4"	2
	701930	• SWITCH, 2 Position maintain	1
	707394	•• GUARD, Toggle switch	1
4	701943	• RELAY, 12VDC Sealed	1
5	102921	• DIODE, 6A-1000PIV	1
6	703468	• LABEL, Hydraulic Generator	1
7	703533	• FITTING, 90° #10orb-#8	1
8	703414	• FITTING, Connector #10orb-#8	1
9	701998	• FITTING, Elbow 90° #8orb-#8	1
10	701954	• FITTING, Connector #4orb-#4	1
11	703411	• FITTING, Tee #12orb-#12	1
12	703412	• FITTING, Reducer #8orb-#12	2
13	703413	• FITTING, Swivel tee #12orb-#12	1
14	701850	• FITTING, Elbow 90° #4orb-#4	1
15	702119	• FITTING, 90° Swivel nut elbow #12orb-#12	1
16	702798	• FITTING, Connector elbow (Extra Long) #12orb-#12	1
17	703364	• WELDMENT, Hydraulic Generator Mount	1
18	703502	• WELD PLATE, Hydraulic Generator	1
	103909	•• BOLT, HHCS 1/2"-13x1-1/4"	4
	103468	•• WASHER, Flat 1/2"	4
	103470	•• WASHER, Lock 1/2"	4
19	704535	• HOSE ASSEMBLY (H608 0024 00-0)	1
20	704518	• HOSE ASSEMBLY (H504 0024 00-0)	1
21	703887	• HOSE ASSEMBLY (H108 0072 00-0)	2
NOTE: Refer to Standard Hose Numbering System (SECTION 5, Page 33) for explanation of hose numbering.			

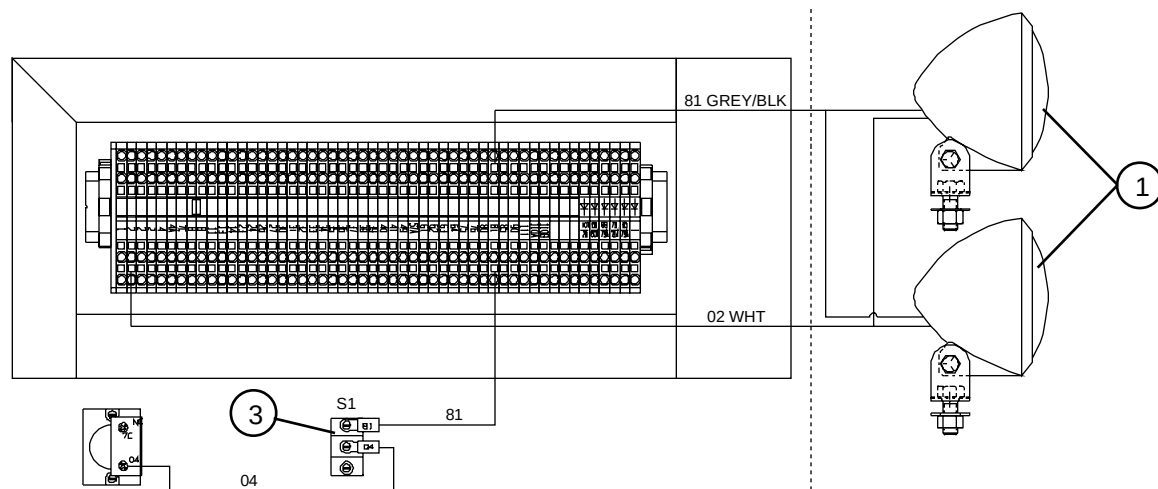
FIGURE 6-60. CHASSIS LIGHTS OPTION



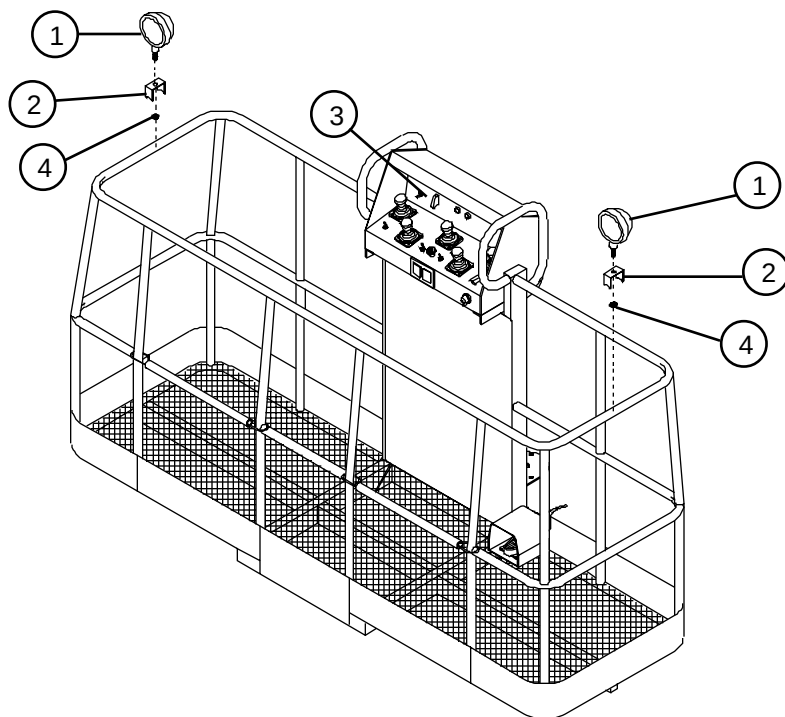
MA66-649

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	703543	CHASSIS LIGHTS OPTION	-
	703545	• LIGHT, Work	2
	103468	• WASHER, Flat SAE 1/2"	2
2	710153	• BRACKET, Chassis light	2
3	701930	• SWITCH, Toggle SPDT 2 Position main	1
	707394	• GUARD, Toggle switch	1
4	701943	• RELAY, 12 VDC sealed	1
	103962	• BOLT, MACH. HD #10-32x1/2"	1
	104185	• WASHER, Lock #10	1
5	103256	• CABLE, 18/2 Cabtire	168"

FIGURE 6-61. PLATFORM WORK LIGHT OPTION



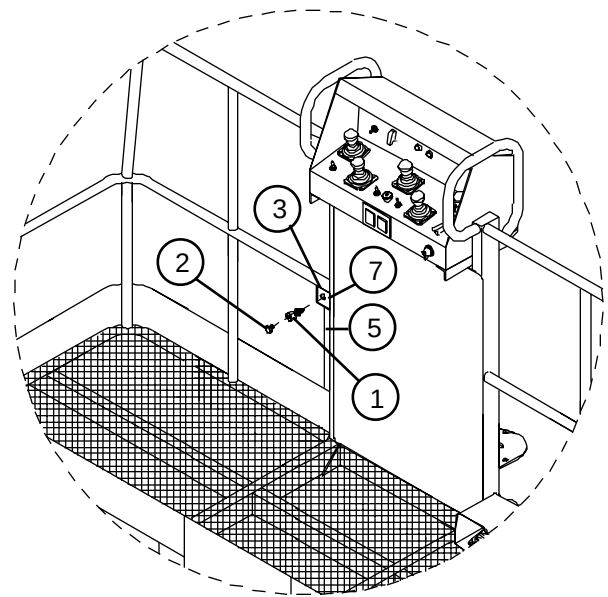
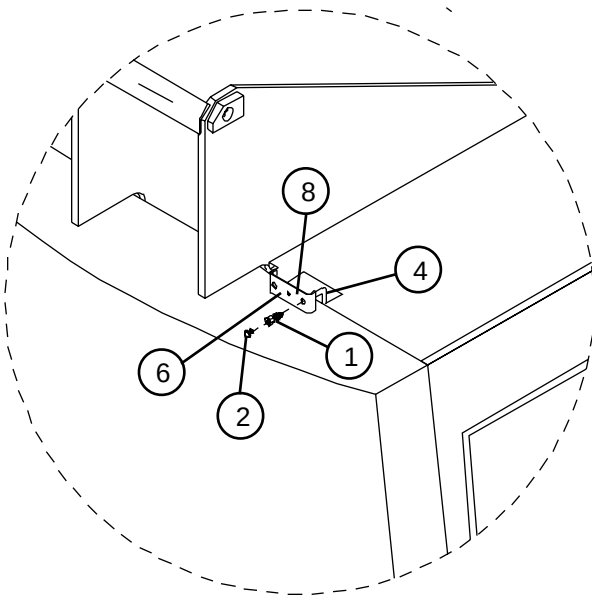
PLATFORM CONTROL CONSOLE



MA66-650

Index No.	Skyjack Part No.	Description							Units per Assy.
		1	2	3	4	5	6	7	
	704778	PLATFORM WORKLIGHT OPTION							-
1	703545	• LIGHT, Work							2
2	703544	• BRACKET, Work light							2
3	701930	• SWITCH, Toggle SPDT 2Position main							1
	707394	• GUARD, Toggle switch							1
4	109598	• NUT, Jam 1/2"-20							2
5	103256	• CABLE, 18/2 Cabtire (Not Shown)							240"

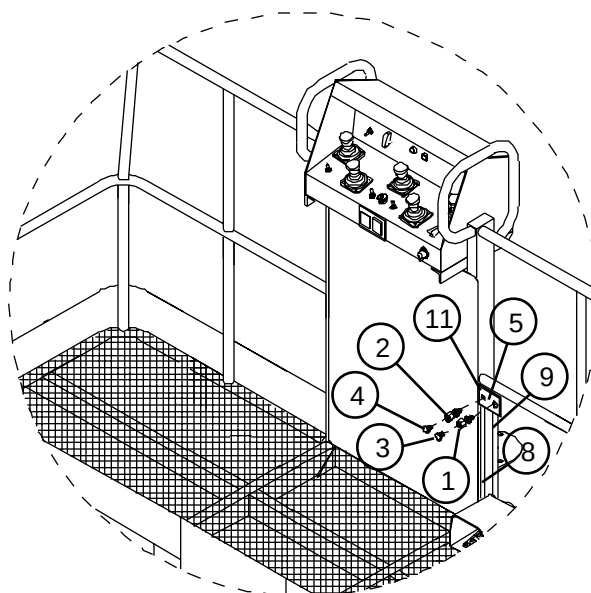
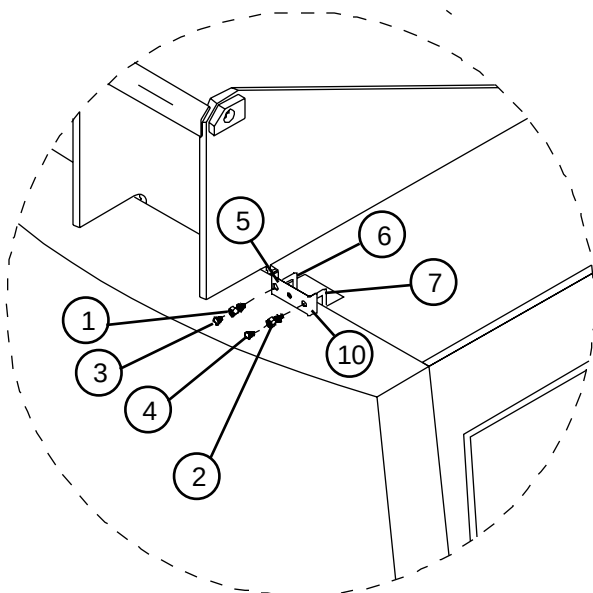
FIGURE 6-62. AIR LINE TO PLATFORM OPTION



MA66-651

Index No.	Skyjack Part No.	Description	Units per Assy.
	703674	AIR LINE TO PLATFORM OPTION	-
1	703681	• FITTING, Hydraulic 2705 LN 8	2
2	703683	• FITTING, Pipe plug 1/2" NPT	2
3	703671	• LABEL, Air line platform	1
4	709394	• HOSE ASSEMBLY (H508 0511 00-0)	1
5	703891	• HOSE ASSEMBLY (H504 0752 00-0)	1
6	707221	• BRACKET, Turret	1
7	703667	• BRACKET, Platform	1
8	703893	• LABEL, Air line turret	1
9	703680	• WELDMENT, Catrac tube (Not Shown) (Serial Number 93390 and Below.)	1
10	703686	• ANGLE MOUNT, Wear pad (Not Shown) (Serial Number 93390 and Below.)	1
11	703677	• WELDMENT, Catrac Hose Support (Not Shown) (Serial Number 93390 and Below.)	1
12	707777	• WELDMENT, Crossover Plate (Not Shown) (Serial Number 93390 and Below.)	1
13	710607	• STANDOFF, (Not Shown) (Serial Number 93391 and Above.)	11
NOTE: Refer to Standard Hose Numbering System (SECTION 5, Page 33) for explanation of hose numbering.			

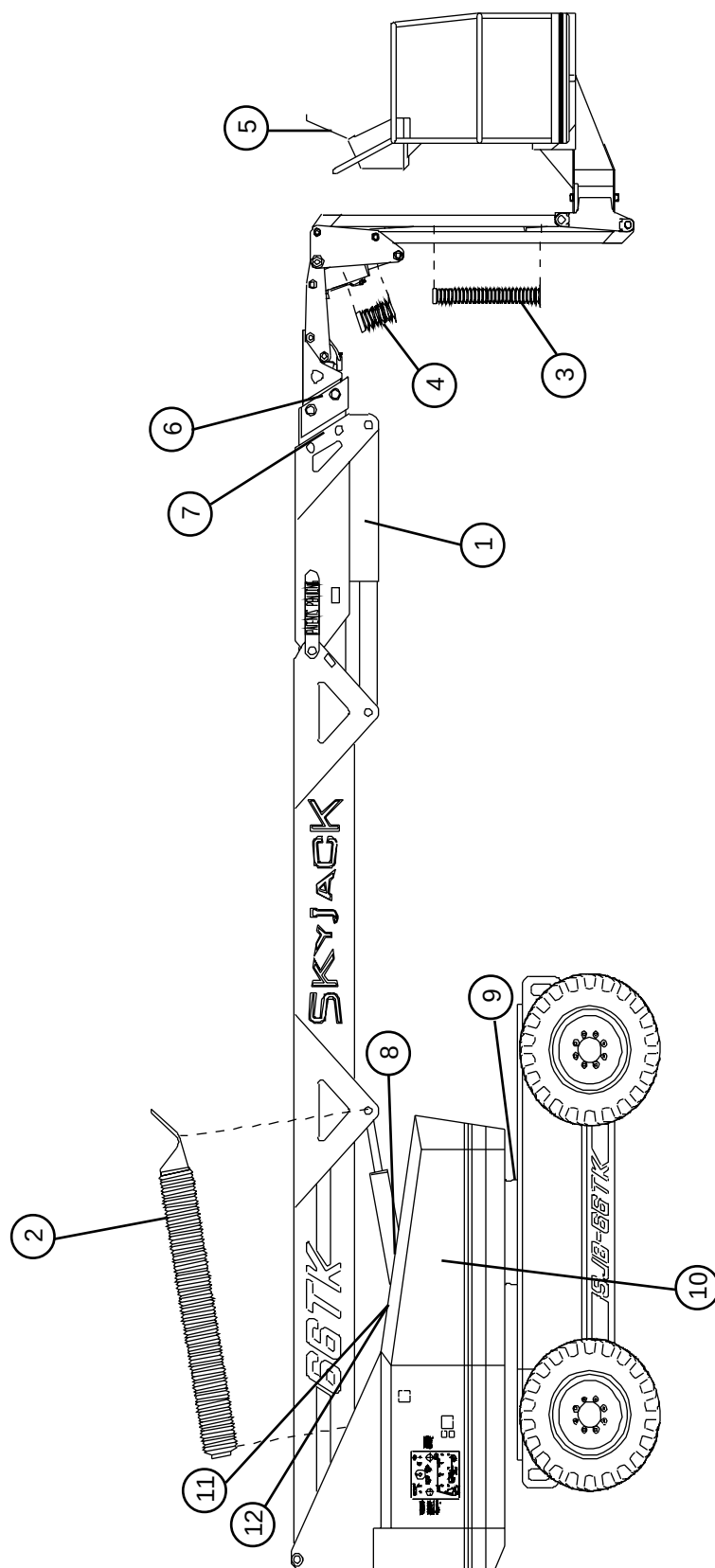
FIGURE 6-63. HYDRAULIC LINE TO PLATFORM OPTION



MA66-652

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
	703673	HYDRAULIC LINE TO PLATFORM OPTION	-
1	703681	• FITTING, Hydraulic 2705 LN 8	2
2	703682	• FITTING, Hydraulic 2705 LN 6	2
3	703683	• FITTING, Pipe plug 1/2" NPT	2
4	701862	• FITTING, Pipe plug 3/8" NPT	2
5	703672	• LABEL, Hydraulic line platform	2
6	707090	• HOSE ASSEMBLY (H508 0752 00-0)	1
7	707091	• HOSE ASSEMBLY (H506 0752 00-0)	1
8	709392	• HOSE ASSEMBLY (H508 0515 00-0)	1
9	709393	• HOSE ASSEMBLY (H506 0512 00-0)	1
10	707221	• BRACKET, Turret	1
11	703669	• BRACKET, Platform	1
12	707175	• WELDMENT, Manifold cover (Not Shown)(Serial Number 93358 and Below.)	1
13	703680	• WELDMENT, Catrac tube (Not Shown)(Serial Number 93358 and Below.)	1
14	703686	• ANGLE MOUNT, Wear pad (Not Shown)(Serial Number 93358 and Below.)	1
15	702994	• WELDMENT, Crossover Cover (Not Shown)(Serial Number 93358 and Below.)	1
16	707777	• WELDMENT, Crossover Plate (Not Shown)(Serial Number 93358 and Below.)	1
17	703677	• WELDMENT, Catrac Hose Support (Not Shown) (Serial Number 93358 and Below.)	1
NOTE: Refer to Standard Hose Numbering System (SECTION 5, Page 33) for explanation of hose numbering.			

FIGURE 6-64. HOSTILE/EXTREME HOSTILE ENVIRONMENT OPTION



MA66-654

FIGURE 6-64. HOSTILE/EXTREME HOSTILE ENVIRONMENT OPTION

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
A	704632	HOSTILE ENVIRONMENT	-
B	704631	EXTREME HOSTILE ENVIRONMENT	-
1	(Ref.)	• KNUCKLE CURTAIN ASSEMBLY	-
	704633	•• KNUCKLE CURTAIN	1
	704869	•• WELDMENT BRACKET, Knuckle Curtain	1
	704880	•• KNUCKLE CURTAIN BRACKET, Side	2
	704881	•• KNUCKLE CURTAIN BRACKET, Bottom	1
	704915	•• KNUCKLE CURTAIN BRACKET, Stiffener	2
	704878	•• KNUCKLE CURTAIN PLATE, Short	2
	704879	•• KNUCKLE CURTAIN PLATE, Long	2
	704882	•• KNUCKLE CURTAIN PLATE, Rear	2
2	(Ref.)	• BELLOW ASSEMBLY, Lift Cylinder	-
	704867	•• BELLOW WELDMENT, Rear Plate	1
	704634	•• BELLOW, Lift Cylinder	1
	704866	•• MAIN BOOM BELLOW PLATE, CVR, Rear	1
	704864	•• MAIN BOOM BELLOW PLATE, Side	2
3	704635	• BELLOW, Jib Cylinder	1
4	704636	• BELLOW, Level Cylinder	1
5	(Ref.)	•• CONSOLE COVER ASSEMBLY	-
	704930	•• CONSOLE COVER WELDMENT	1
	704858	•• CONSOLE COVER BRACKET	1
	704928	•• LATCH ASSEMBLY, 1/4 Turn	1
	710188	•• BUMPER, Rubber	4
6	(Ref.)	• MID BOOM BRUSH ASSEMBLY	1
	704799	•• MOUNTING PLATE WELDMENT, Mid Broom Brush	1
	704693	•• BRUSH, Mid Top	1
	704697	•• BRUSH, Mid Side	2
	704701	•• BRUSH HOLDER, Mid Boom Top	1
	704699	•• BRUSH HOLDER, Mid Boom Side LH	1
	704772	•• BRUSH HOLDER, Mid Boom Side RH	1
7	(Ref.)	• KNUCKLE BRUSH ASSEMBLY	-
	704695	•• KNUCKLE BRUSH, Side	2
	704698	•• BRUSH HOLDER, Knuckle Side LH	1
	704699	•• BRUSH HOLDER, Knuckle Side RH	1
8	704959	• INDICATOR, Air Restrictor	1
9	704599	• COVER, Ring Gear, B	1
	704939	•• SEAL, Ring Gear Cover	1
10	(Ref.)	• DOOR ASSEMBLY (Diesel), B	-
	704725	•• DOOR	1
	704873	•• EXHAUST FILTER WELDMENT	1
	704874	•• FILTER, Door Vent	1
	704863	•• FILTER, Exhaust Door	1
	704637	•• PRE-CLEANER	1
11	704639	• FITTING, Tank Vent BV-3, B	2
12	704638	• FITTING, Tank Vent Adaptor #6orb-#4, B	2

FIGURE 6-65. OVERLOAD OPTION

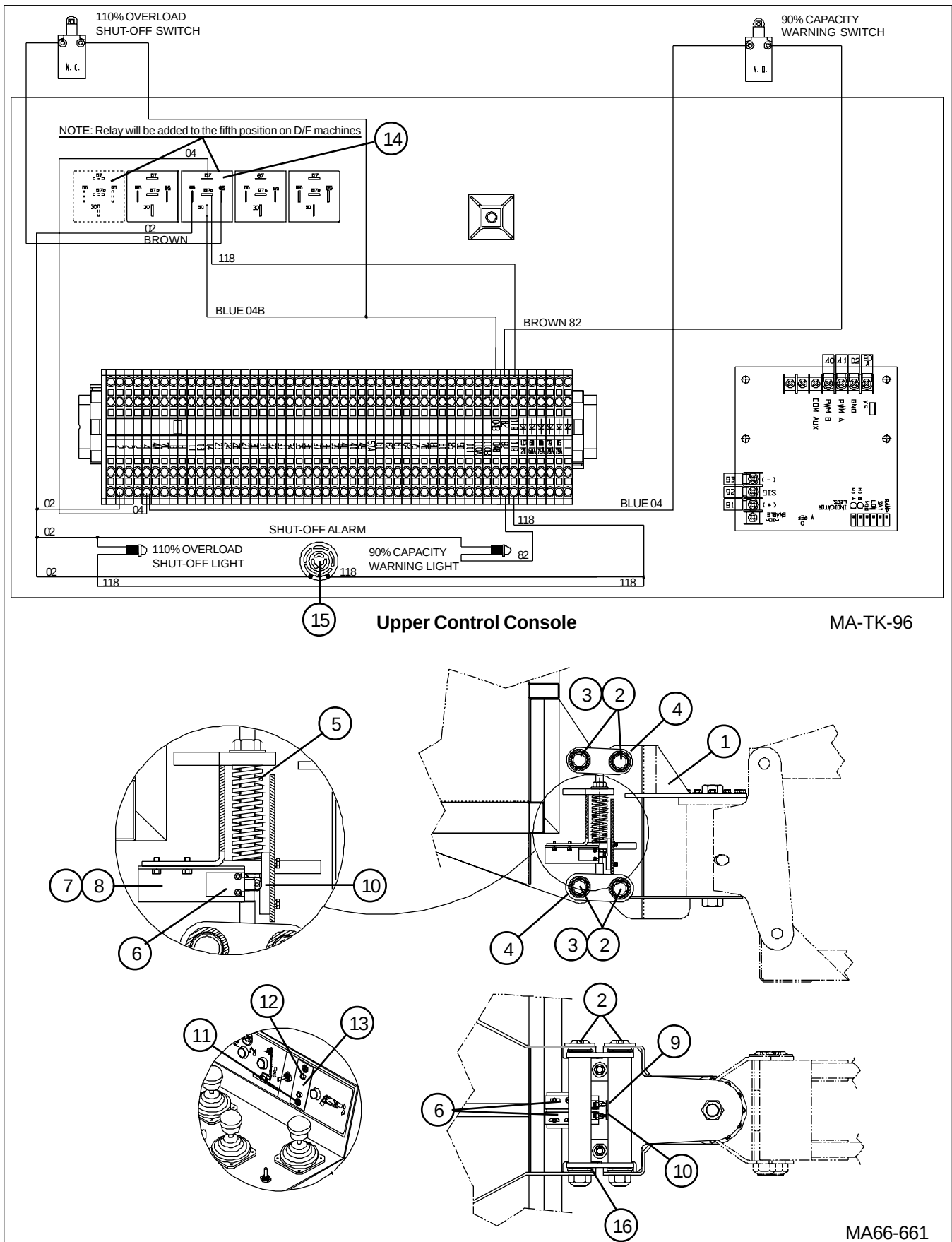
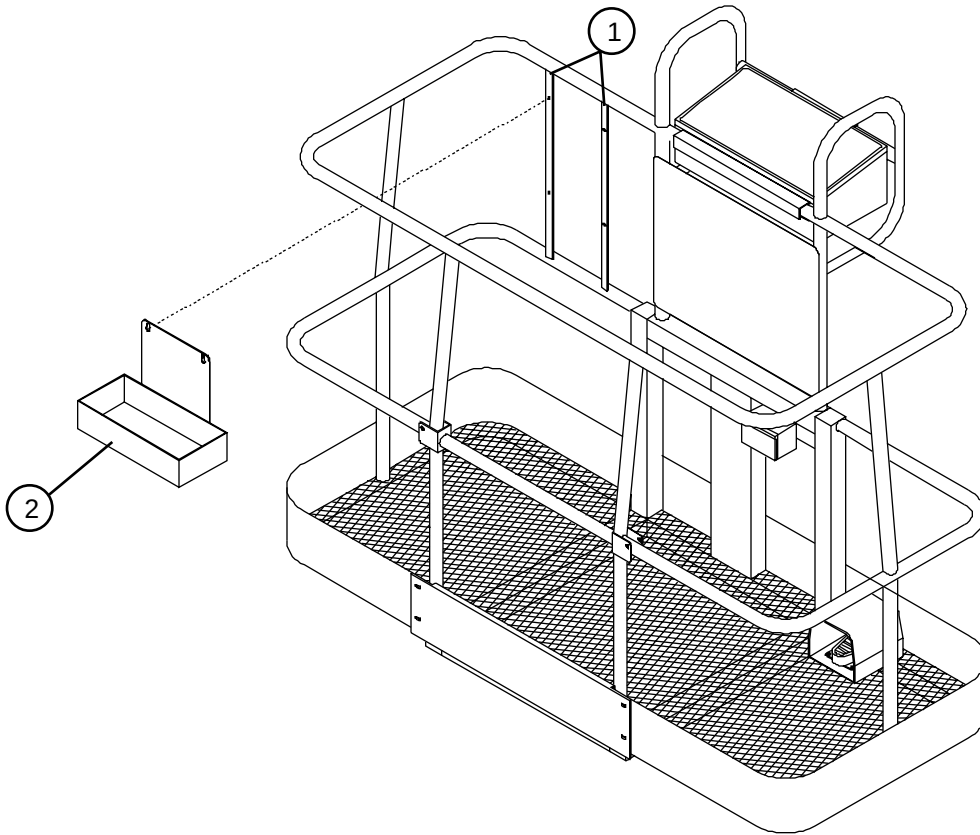


FIGURE 6-65. OVERLOAD OPTION

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	706158	OVERLOAD INDICATION OPTION	-
	704420	• WELDMENT, Rotator attachment	1
2	704489	• WELDMENT, Pin	4
	106230	• NUT, Lock 1-1/4-12 gr. C top lock	1
	706873	• BOLT, HHCS 1/2-13x5/8" gr. 5	1
	103470	• WASHER, 1/2" lock	1
3	103216	• BUSHING, 1-1/2x1-21/32x1-1/2" long	8
4	704423	• WELDMENT, Overload pivot	2
5	704479	• SPRING, Platform overload	2
	706149	• BOLT, HHCS 5/8-11x8-1/2" gr. 5	1
	700782	• WASHER, Flat SAE 5/8	2
	103998	• WASHER, 5/8" lock	1
	103981	• NUT, HEX 5/8-11 gr. 2	2
	700160	• LIMIT SWITCH, Sealed	2
	703357	• BOLT, FHMS #10-32x5/8"	2
	704419	• BRACKET, Switch adjustment, RH	1
	103995	• WASHER, Flat SAE 1/4	2
	104000	• WASHER, 5/8" lock	2
	103855	• BOLT, HHCS 1/4-20x1/2" gr. 5	2
	704416	• BRACKET, Switch adjustment, LH	1
	103995	• WASHER, Flat SAE 1/4	2
	104000	• WASHER, 5/8" lock	2
	103855	• BOLT, HHCS 1/4-20x1/2" gr. 5	2
	704481	• CAM BLOCK, (Short cam)	1
	103995	• WASHER, Flat SAE 1/4	2
	104000	• WASHER, 5/8" lock	2
	103856	• BOLT, HHCS 1/4-20x3/4" gr. 5	2
	710699	• CAM BLOCK, (Long cam)	1
	103995	• WASHER, Flat SAE 1/4	2
	104000	• WASHER, 5/8" lock	2
	103856	• BOLT, HHCS 1/4-20x3/4" gr. 5	2
11	707181	• INDICATOR LIGHT, 12VDC Red	1
12	703720	• INDICATOR LIGHT, 12VDC Amber	1
13	702337	• LABEL, Control box	1
14	701943	• RELAY, 12VDC Sealed	1
15	103057	• BEEPER, 4-28VDC	1
16	700342	• WASHER, Thrust bronze	8
NOTE: Platform weldment (704480) must be ordered along with Overload Indication Option (707938).			

FIGURE 6-66. PLATFORM TOOL TRAY OPTION



Index No.	Skyjack Part No.	Description							Units per Assy.
		1	2	3	4	5	6	7	
	710060	PLATFORM TOOL TRAY OPTION (30x66 and larger only)							-
1	200525	• TOOL TRAY WELDMENT							1
	700583	•• NUT, lock 1/4"-20							4
	703273	•• BOLT, BHCS 1/4"-20x1.00 SS							4
2	710061	• TOOL TRAY SUPPORT							1