

SKYJACK™

OPERATING MAINTENANCE & PARTS MANUAL

Models SJKB-40-D, SJKB-40-D/F,
SJKB-40-RT, SJKB-40-XRT



SJKB-40 BOOM ENGINE POWERED

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

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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 -1992 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

ELECTROCUTION HAZARD	VOLTAGE RANGE	MINIMUM SAFE APPROACH DISTANCE	
	(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	4.60
	(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 its 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 SJKB-40-*engine powered* work platform. Equipment identified with “ANSI/CSA” meets the ANSI/SIA-A92.5 -1992 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 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 accepted 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

1

PURPOSE OF EQUIPMENT

The SKYJACK SJKB Boom Work Platforms are designed to transport and raise personnel and tools to overhead work areas.

USE OF EQUIPMENT

The work platforms (Figure 1-2) are highly maneuverable work stations. The SJKB-40-D/F and -40-D Models are designed for both slab-type and rough terrain construction applications. **Lifting and elevated driving these models 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 base controls are located in the electric panel located on the rotating turret.

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 through a sliding midrail bar at the center of the railing system 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 4 foot hydraulic boom jib, telescoping boom assembly and riser arm. This mechanism uses double-acting hydraulic cylinders with holding valves to control vertical movement. Manual lowering valves at the base of the main boom and jib cylinders allow the mechanism to lower in the event of an emergency or electrical system failure.

TURRET - The turret rotates 360 degrees continuously. On each side of the turret is an enclosure. One with hinged doors that contains the swing out engine tray, emergency pump, brake manifold and access to the turret transportation lock and battery. The other enclosure contains the fuel tank, the hydraulic fluid tank and the electrical panel.

DRIVE CHASSIS - The chassis assembly consists of a rigid one piece weldment and one of the following axle configurations.

Standard 2WD machines have a straight front axle with two non-driven wheels, steerable by a double acting hydraulic cylinder and an hydraulic motor driven rear axle with spring applied hydraulically released parking brakes.

Optional 4WD machines have a hydraulic motor driven, rigid drive axle in the rear. The steer axle is coupled to the rear with a drive shaft. The driven steer axle has an integrated double acting hydraulic cylinder for steering. Both axles have spring applied hydraulically released parking brakes. Machines equipped with the Dual Fuel Option have LP tank mounting brackets on the side of the chassis weldment.

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

OPTIONAL ACCESSORIES - The SKYJACK SJKB Boom Work Platforms are designed to accept a variety of optional accessories. These are listed in Specifications and Features found 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.

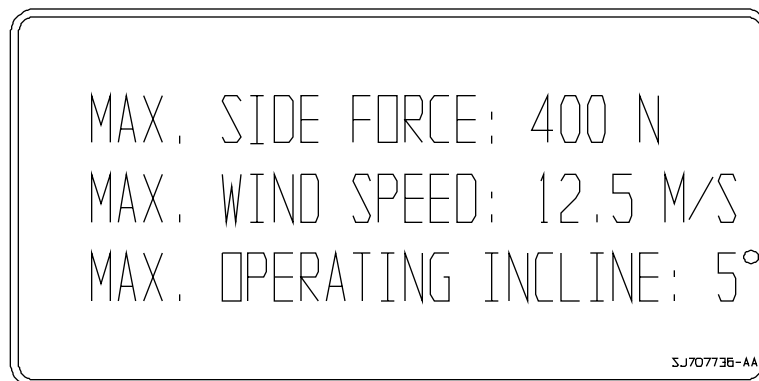


Figure 1-1. Front Panel Labels

TABLE 1-1. SPECIFICATIONS AND FEATURES

Specifications

WEIGHT (4x2)	14,100# (6396kg)
WEIGHT (4x4)	13,620# (6178kg)
WORK HEIGHT (Nominal)	46' (14.02m)
RAISED PLATFORM HEIGHT (Nominal)	40' (12.19m)
STOWED HEIGHT	6' 7" (2.0m)
PIVOTAL HEIGHT	15' 0" (4.6m)
TAILSWING (At pivotal height)	Zero
HORIZONTAL REACH (CL rotation)	27' 3" (8.3m)
HORIZONTAL REACH (Clear reach)	24' 4" (7.4m)
STOWED LENGTH	18' 4" (5.59m)
PLATFORM CAPACITY (Unrestricted)	500# (227kg)
PLATFORM SIZE	30" x 66" (.76m x 1.68m)
ELECTRICAL SYSTEM	12 Volts DC
GRADABILITY	30%
TURRET ROTATION	Continuous
TIRE SIZE	10x16.5 Air Filled

Features

STANDARD EQUIPMENT

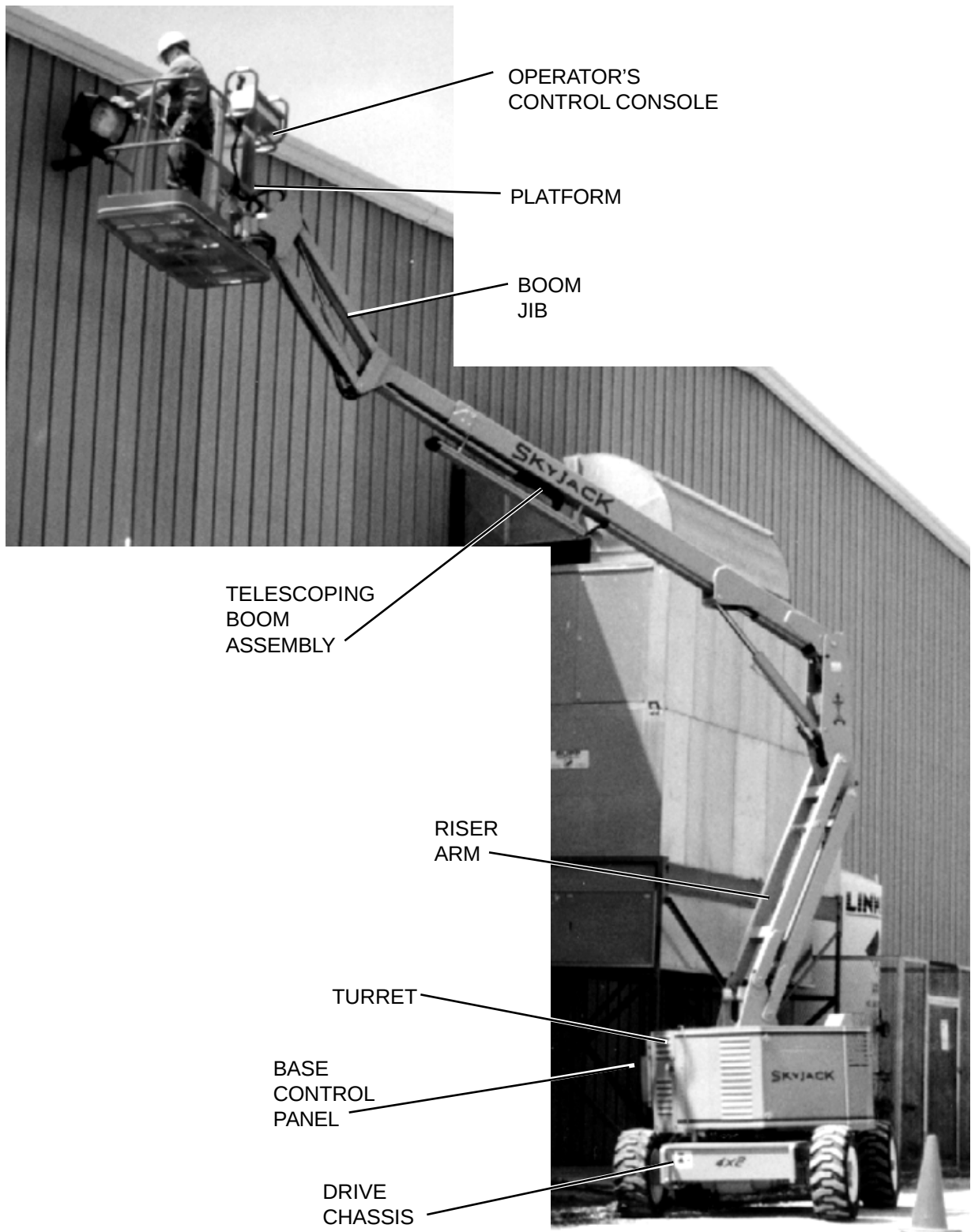
4 Foot Hydraulically Controlled Boom Jib
Variable Speed Drive and Function Controls
In-Line Elevating Assembly
Continuous Drive and Steer Directional Sensing
Spring-Applied Hyd-Released Parking Brakes
ANSI and CSA Standards Compliance
Kubota Gas Engine

OPTIONAL EQUIPMENT

Kubota Diesel Engine
Dual Fuel (Gas/Propane)
Operator Horn
All Function Motion Alarm
Travel Alarm
Descent Alarm
Flashing Amber Light
Platform or Chassis Work Lights
Spring-Loaded Half Gate
Spring-Loaded Full Gate
Lifting Lugs
Air or Hydraulic Line to Platform
Cold Weather Start
High Flotation Tires
Foam Filled Tires
Four Wheel Drive

WORK PLATFORM MAJOR COMPONENT IDENTIFICATION

Figure 1-2. SKYJACK SJKB Boom Work Platform(Model SJKB-40-D Shown)



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 7 through 9 in this manual.

Base Controls - Electrical Base Control Panel

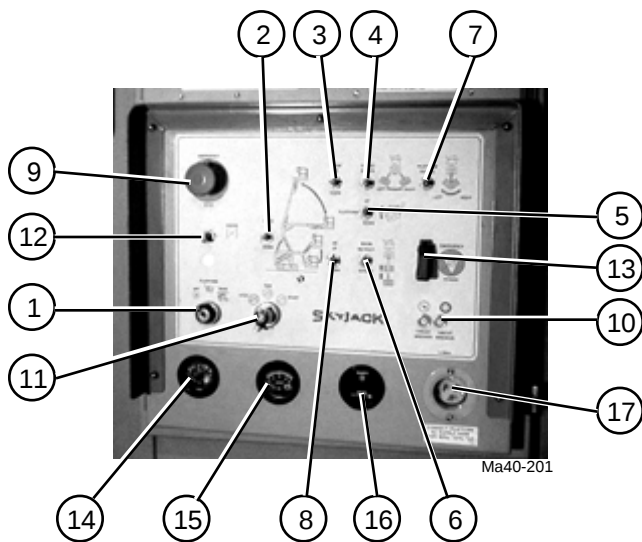


Figure 2-1. Base Control Panel and Label

1. OFF/PLATFORM/BASE SELECT KEY SWITCH
2. RISER UP/DOWN TOGGLE SWITCH
3. BOOM UP/DOWN TOGGLE SWITCH
4. TURRET ROTATION TOGGLE SWITCH
5. PLATFORM LEVELING TOGGLE SWITCH
6. BOOM RETRACT/EXTEND TOGGLE SWITCH
7. PLATFORM ROTATION TOGGLE SWITCH
8. JIB UP/DOWN TOGGLE SWITCH
9. EMERGENCY STOP BUTTON
10. CIRCUIT BREAKERS
11. ENGINE STOP/RUN/START SELECT SWITCH
12. ENGINE CHOKE/GLOW PLUG SWITCH
13. EMERGENCY PUMP ENABLE SWITCH
14. FUEL GUAGE
15. VOLT METER
16. HOUR METER
17. 110 VOLT RECEPTACLE

BASE CONTROL PANEL - This control station is located on the rotating turret in the hydraulic/electric cabinet. It 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 “🚧” (platform) position is selected, power is directed to the control station on the platform. When the switch is held in the “🏠” (base) position power is directed to the control station on the base.

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

3. 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.

4. TURRET ROTATION TOGGLE SWITCH - This switch controls clockwise and counterclockwise turret rotation. To rotate the turret clockwise, push and hold this toggle switch to the “↶” (left) position. Release switch to stop. To rotate the turret counterclockwise, push and hold this toggle switch to the “↷” (right) position. Release switch to stop.

5. PLATFORM LEVELING TOGGLE SWITCH - This switch controls the leveling of the platform if adjustment is necessary. If the platform is tilted away from the jib, push and hold this toggle switch to the “↑” (up) position. Release switch when level. If the platform is tilted toward the jib, push and hold this toggle switch to the “↓” (down) position. Release switch when level.

6. BOOM RETRACT/EXTEND TOGGLE SWITCH - This switch controls the retraction and extension of the telescoping boom arm. 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.

7. 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.

8. 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.

9. 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.

10. CIRCUIT BREAKERS - 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.

11. 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 "⏻" (run) position. To stop the engine turn the switch to the "⏻" (stop) position. The engine must be running before any functions can be operated.

12. ENGINE CHOKE/GLOW PLUG SWITCH - This switch when held in the "⬆" (up) position, activates the electric choke on gasoline engines or the glow plugs on the optional diesel engine.

13. 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 to be operated. To resume normal operation, move the switch to the down position by closing the switch cover.

14. FUEL GAUGE - Electronic fuel level gauge.

15. VOLT METER - This meter displays battery voltage.

16. HOUR METER - Activated by the ignition system, this gauge measures engine running time.

17. 110 VOLT RECEPTACLE (Power to platform) - This 110 volt receptacle is used to provide power to the platform for operating tools.

Battery Disconnect Switch

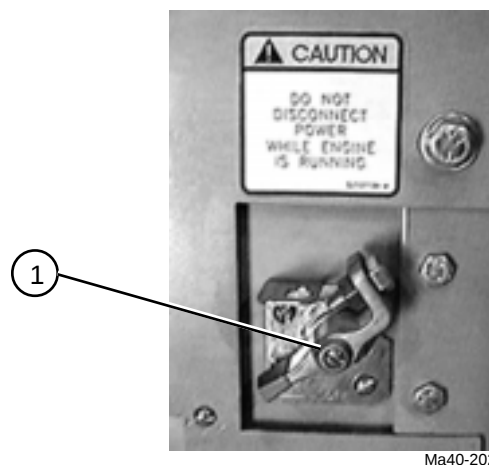


Figure 2-2. Battery Disconnect Switch

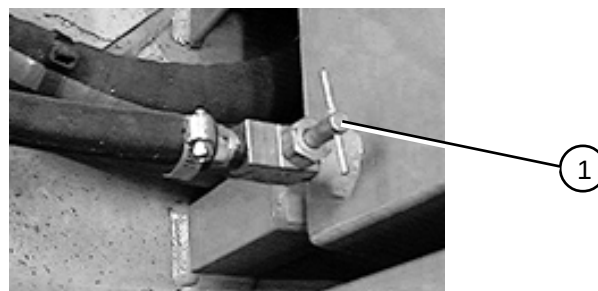
1. BATTERY DISCONNECT SWITCH

1. BATTERY DISCONNECT SWITCH - This switch, located on the rotating turret near the electrical panel, disconnects power to both control stations in the event of an emergency and for work platform shut down. This switch **MUST** be turned to "ON" position to start the engine or operate any control on either of these control stations.



DO NOT disconnect power while engine is running, DO NOT use this switch to turn engine off. Damage to engine may occur.

Base Controls - Mechanical Manual Fuel Shut-Off Valve



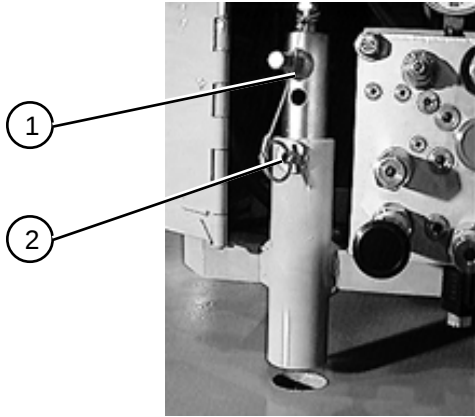
Ma40-203

Figure 2-3. Fuel Shut-Off Valve

1. FUEL SHUT OFF VALVE

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

Turret Transportation Lock



Ma40-204

Figure 2-4. 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 Emergency Lowering Valves

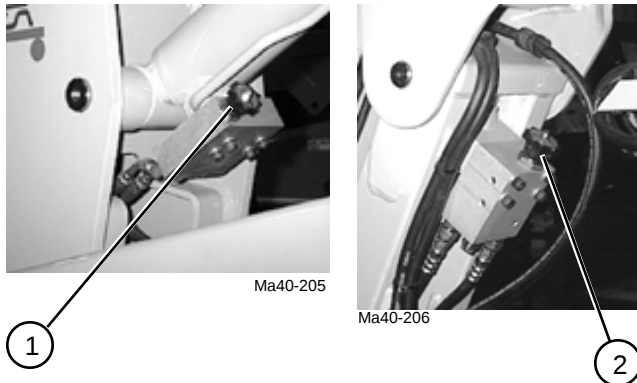


Figure 2-5. Emergency Lowering Valves and Procedure Label

1. EMERGENCY LOWERING VALVE ON BOOM
2. EMERGENCY LOWERING VALVE ON JIB

1. EMERGENCY LOWERING VALVE ON BOOM - Located at the base on the boom cylinder, this valve allows boom lowering in the event of an emergency or an electrical system failure. Turning the valve knob counterclockwise allows the boom to gradually lower.

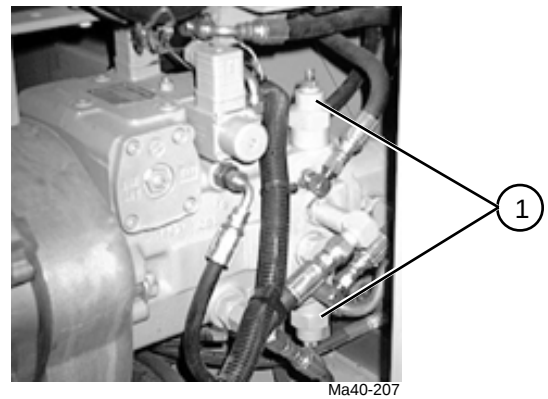
Valve **MUST** be fully closed (clockwise) to restore normal operation.

2. EMERGENCY LOWERING VALVE ON JIB - Located at the base on the jib cylinder, this valve allows boom lowering in the event of an emergency or an electrical system failure. Turning the valve knob counterclockwise allows the jib to gradually lower. Valve **MUST** be fully closed (clockwise) to restore normal operation.

NOTE

For European models only, the manual lowering valve knobs are located inside engine cabinet bi-fold door on turret.

Drive Relief Valve Overrides



Ma40-207

Figure 2-6. 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.

Brake Manifold and Parking Brake Release Procedure

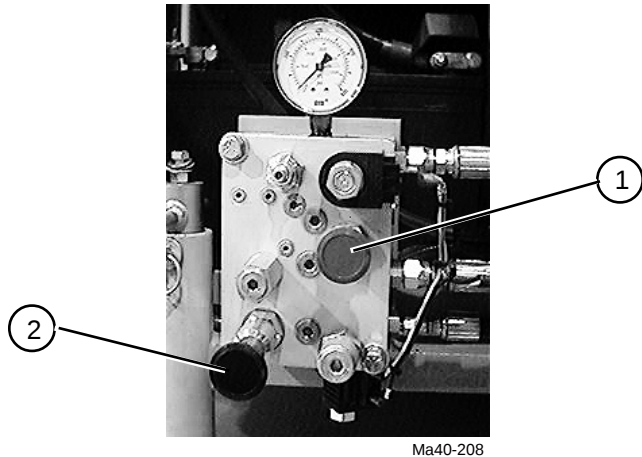


Figure 2-7. Brake Manifold

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:

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



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.

Base Controls - Hydraulic Turret Rotation Speed Control Valve

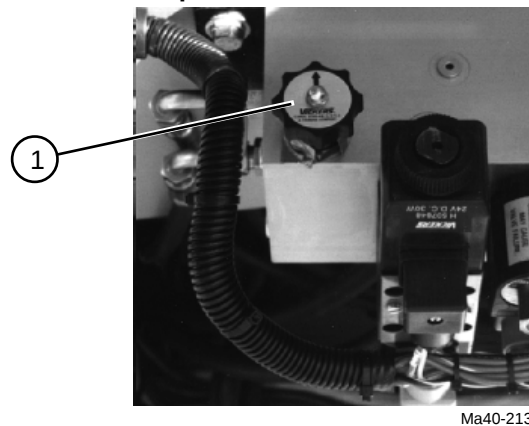


Figure 2-8. Turret Rotation Speed Control Valve

1. TURRET ROTATION SPEED CONTROL VALVE

1. TURRET ROTATION SPEED CONTROL VALVE - Located on the lower left side of the main manifold in the hydraulic/electric cabinet, this rotary valve when rotated to a fully closed position (clockwise) allows maximum turret rotation speed. By opening the valve (counterclockwise) the turret rotation speed can be reduced.

Platform Controls - Electrical Foot Switch

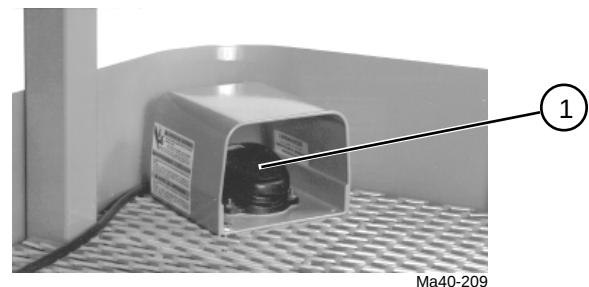


Figure 2-9. Foot Switch

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.

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.**

Operator's Control Console

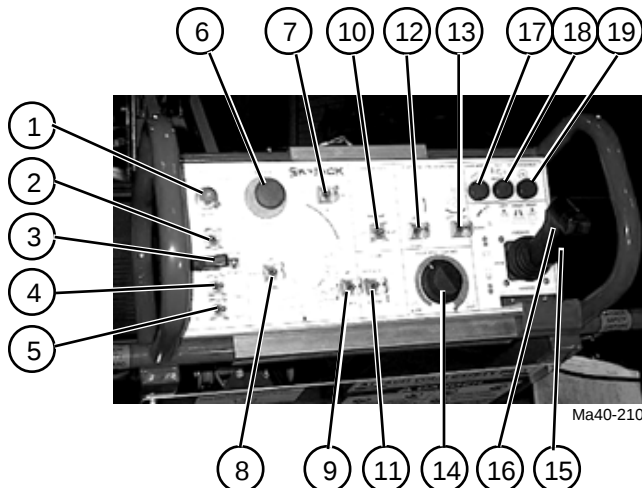


Figure 2-10. Operator's Control Console and Label

1. ENGINE STOP/RUN/START SELECT SWITCH
2. ENGINE CHOKE/GLOW PLUG SWITCH
3. EMERGENCY PUMP ENABLE SWITCH
4. FUEL SELECT TOGGLE SWITCH (Dual Fuel)
5. ENGINE SPEED SELECT TOGGLE SWITCH
6. EMERGENCY STOP BUTTON
7. BOOM UP/DOWN TOGGLE SWITCH
8. RISER UP/DOWN TOGGLE SWITCH
9. JIB UP/DOWN TOGGLE SWITCH
10. TURRET ROTATE TOGGLE SWITCH
11. BOOM EXTEND/RETRACT TOGGLE SWITCH
12. PLATFORM LEVELING TOGGLE SWITCH
13. PLATFORM ROTATE TOGGLE SWITCH
14. BOOM SPEED CONTROL ROTARY SWITCH
15. DRIVE/STEER CONTROLLER
16. HORN PUSH-BUTTON
17. ENGINE WARNING LIGHT
18. TILT SENSOR INDICATOR LIGHT
19. FUNCTION ENABLE LIGHT

OPERATOR'S CONTROL CONSOLE - This metal 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 - To start the engine **DO NOT** depress the foot 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 "⏻" (run) position. To stop the engine turn the switch to the "⏻" (stop) position. The engine must be running before any functions can be operated.

2. ENGINE CHOKE/GLOW PLUG SWITCH - This switch when held in the "⇌" (right) position, activates the electric choke on gasoline engines or the glow plugs on the optional diesel engine.

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

4. FUEL SELECT TOGGLE SWITCH (Dual Fuel) - This switch allows the operator to select the fuel source to be used.

5. ENGINE SPEED SELECT TOGGLE SWITCH - This switch allows the operator to select from low or high engine speed.

6. EMERGENCY STOP BUTTON - This red mushroom-shaped button is designed to cut power to the platform controls when struck in the event of an emergency or at work platform shutdown. To restore power, simply pull button out.



Depressing the Emergency Stop Button instantly engages parking brakes.

7. 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.

8. RISER UP/DOWN TOGGLE SWITCH - This switch controls the up/down movement of the riser section. To raise the riser section, push and hold this toggle switch to the "⬆" (up) position. Release switch to stop. To lower the riser section, push and hold this toggle switch to the "⬇" (down) position. Release switch to stop.

9. 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.

10. TURRET ROTATION TOGGLE SWITCH - This switch controls clockwise and counterclockwise turret rotation. To rotate the turret clockwise, push and hold this toggle switch to the "⇌" (left) position. Release switch to stop. To rotate the turret counterclockwise, push and hold this toggle switch to the "⇌" (right) position. Release switch to stop.

11. BOOM RETRACT/EXTEND TOGGLE SWITCH -

This switch controls the retraction and extension of the telescoping boom arm. 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.

12. PLATFORM LEVELING TOGGLE SWITCH - This switch controls the leveling of the platform if adjustment is necessary. If the platform is tilted away from the jib, push and hold this toggle switch to the “↑” (up) position. Release switch when level. If the platform is tilted toward the jib, push and hold this toggle switch to the “↓” (down) position. Release switch when level.

13. 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. Release switch to stop.

14. BOOM SPEED CONTROL ROTARY SWITCH - This rotary switch allows the operator to control the speed of the lifting, lowering and rotation functions. To reduce the speed of the functions turn the knob counter-clockwise. To increase the speed of the functions turn the knob clockwise.

15. DRIVE/STEER CONTROLLER - This lever-type controller allows the operator to drive in forward or reverse and by using the rocker on top of the controller to steer left or right

16. HORN PUSH BUTTON (Option) - If equipped with the horn option, the horn is sounded by depressing the red button on the Drive/Steer controller handle.

17. ENGINE WARNING LIGHT - This red indicator light notifies the operator that the engine oil pressure is low or the engine is overheating, the engine will shut off automatically.

18. TILT SENSOR INDICATOR LIGHT - This red indicator light warns the operator that the work platform is on a slope which exceeds the limits for safe operation. A warning buzzer will also sound.

19. FUNCTION ENABLE LIGHT - This red indicator light tells the operator that the foot switch has been depressed and power is available to operate the controls on the operator's control console.

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.

OPERATORS CHECK LIST

INSPECT AND/OR TEST THE FOLLOWING DAILY OR AT THE BEGINNING OF EACH SHIFT

1. OPERATING AND EMERGENCY CONTROLS.
2. SAFETY DEVICES.
3. PERSONAL PROTECTIVE DEVICES.
4. TIRES AND WHEELS.
5. OUTRIGGERS (IF EQUIPPED) AND OTHER STRUCTURES.
6. AIR, HYDRAULIC AND FUEL SYSTEM FOR LEAKS.
7. LOOSE OR MISSING PARTS OR HARDWARE.
8. CABLES OR WIRING HARNESS.
9. PLACARDS, WARNINGS, CONTROL MARKINGS AND OPERATING MANUAL(S).
10. GUARDRAIL SYSTEM.
11. ENGINE OIL SYSTEM (IF SO EQUIPPED).
12. BATTERY FLUID LEVEL.
13. HYDRAULIC AND BRAKE FLUID RESERVOIR LEVEL.
14. COOLANT LEVEL (IF SO EQUIPPED).

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Prestart Checks

1. Check for obstacles around the work platform and in the path of travel such as holes, drop offs, debris, ditches and soft fill.
2. Check overhead clearances.
3. Make sure emergency lowering valves at the base of the boom and jib cylinders are fully closed.
4. Check fuel level. Make sure the valve on the propane tank is in the open position (Dual Fuel Option only).

Start and Operation

1. Turn the Control Circuit Disconnect Switch to the “ON” position.
2. Pull out the Emergency Stop Button on the Base Control Panel.
3. Select “ ” (platform) with Off/Platform/Base Select Key Switch.
4. Enter the platform by sliding the entry bar at the center of the platform upward. Make sure the entry midrail returns to midrail position. Close the gate (if so equipped).



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

5. Attach the safety lanyards of each occupant to the platform lanyard rings.
6. Pull out the Emergency Stop Button.
7. For gas engine machines equipped with the Dual Fuel Option. Select the desired fuel source.
8. When the engine is cold, press and hold the Engine Choke Toggle Switch to the " ⇨ " (right) position while starting engine. Release switch once the engine starts (Kubota gas engines) or press and hold Glow Plug Toggle Switch to the " ⇨ " (right) position for 15 to 20 seconds, then release (Diesel engines).
9. 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.**
10. 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!

11. **TO DRIVE FORWARD:** Slowly move the Drive/Steer Controller handle to the " ⬆ " (forward) position. Release controller handle to stop.
12. **TO DRIVE IN REVERSE:** Slowly move the Drive/Steer Controller handle to the " ⬇ " (reverse) position. Release controller handle to stop.
13. **TO STEER:** Depress the rocker on the Drive/Steer Controller handle in the direction you wish to steer.
14. **TO ADJUST BOOM FUNCTION SPEED:** Turn the Boom Speed Control Knob counter-clockwise to decrease function speed or clockwise to increase function speed. The Boom Speed Control will affect all lifting, lowering and rotate functions but will not affect drive or steer speed.
15. **TO MOVE THE JIB UPWARD:** Press and hold the Jib Up/Down Toggle Switch to the " ⬆ " (up) position. Release the switch to stop.
16. **TO MOVE THE JIB DOWNWARD:** Press and hold the Jib Up/Down Toggle Switch to the " ⬇ " (down) position. Release the switch to stop.
17. **TO MOVE THE RISER UPWARD:** Press and hold the Riser Up/Down Toggle Switch to the " ⬆ " (up) position. Release the switch to stop.
18. **TO MOVE THE RISER DOWNWARD:** Press and hold the Riser Up/Down Toggle Switch to the " ⬇ " (down) position. Release the switch to stop.
19. **TO MOVE THE BOOM UPWARD:** Press and hold the Boom Up/Down Toggle Switch to the " ⬆ " (up) position. Release the switch to stop.
20. **TO MOVE THE BOOM DOWNWARD:** Press and hold the Boom Up/Down Toggle Switch to the " ⬇ " (down) position. Release the switch to stop.
21. **TO ROTATE THE TURRET LEFT:** Press and hold the Turret Rotate Toggle Switch to the " ⇨ " (left) position. Release the switch to stop.
22. **TO ROTATE THE TURRET RIGHT:** Press and hold the Turret Rotate Toggle Switch to the " ⇨ " (right) position. Release the switch to stop.
23. **TO LEVEL THE PLATFORM (Platform is tilted away from the jib):** Press and hold the Platform Leveling Toggle Switch to the " ⬆ " (up) position. To stop release the switch.
24. **TO LEVEL THE PLATFORM (Platform is tilted toward the jib):** Press and hold the Platform Leveling Toggle Switch to the " ⬇ " (down) position. To stop release the switch.

NOTE

Platform leveling from platform control console is not available on European models.

25. **TO ROTATE THE PLATFORM TO THE LEFT:** Press and hold the Turret Rotate Toggle Switch to the “ ⇐ ” (left) position. Release the switch to stop.
26. **TO ROTATE THE PLATFORM TO THE RIGHT:** Press and hold the Turret Rotate Toggle Switch to the “ ⇒ ” (right) position. Release the switch to stop.
27. **TO RETRACT THE BOOM ARM:** Press and hold the Boom Extend/Retract Toggle Switch to the “ ⬆ ” (retract) position. Release the switch to stop.
28. **TO EXTEND THE BOOM ARM:** Press and hold the Boom Extend/Retract Toggle Switch to the “ ⬇ ” (extend) position. Release the switch to stop.
29. **TO SOUND THE HORN:** Depress the red push-button on the Drive/Steer Controller.
30. **TO OPERATE USING THE EMERGENCY PUMP:** Raise the cover on the Emergency Pump Select Toggle Switch. Press and hold the switch to the “ ⇐ ” (left) position. When the switch is released, power to the emergency pump will be disconnected. This function is intended to be used in the event of an engine failure to lower the work platform for repairs to be made. This function is not intended to be used for an extended period of time.

Shutdown Procedure

1. Fully lower the platform.
2. Push in the Emergency Stop Buttons.
3. Rotate the Off/Platform/Base Key Switch to the “ ⓧ ” (off) position. Remove the key.
4. Rotate the Battery Disconnect Switch to the “OFF” position.

Loading and Tie Down Procedure

1. With the telescopic boom 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 the jib 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 loading.

NOTE

For loading and unloading using a winch line, see the drive relief override and brake release procedures in this section.

REMEMBER

Operating any hydraulic function will reset the parking brake.

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.



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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 (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.						
						* Record

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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. Owners Annual Inspection Record

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

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Table 2-3. Tire Specifications

Model	Tire		Fill Specification	
	Size	Rating	Type	Pressure
STANDARD	30 x 10.00 x 16.5	10 Ply	Air	55 psi
FOAM FILLED (Option)	30 x 10.00 x 16.5	10 Ply	Solid Urethane	*

* 28 Durometer Fill installed at 55 psi.

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Table 2-4. Maximum Platform Capacities

Model	Platform Capacity (unrestricted)
SJKB-40-D, SJKB-40-D/F	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.

RECOMMENDED AXLE LUBRICANT

TWO WHEEL DRIVE: SAE 80W90 GL-5 gear oil.

FOUR WHEEL DRIVE: Sunoco duragear (synthetic) SAE 75W90 gear oil or equivalent.

Table 2-5. General Specifications

TIRES	Refer to Table 2-3.
INSIDE TURNING RADIUS (4x2)	7' 0" (2.13m)
INSIDE TURNING RADIUS (4x4)	11' 6" (3.5m)
OUTSIDE TURNING RADIUS (4x2)	14' 6" (4.42m)
OUTSIDE TURNING RADIUS (4x4)	16' 10" (5.13m)
UNDERCLEARANCE (4x2)	8.5" (21.6cm)
UNDERCLEARANCE (4x4)	8.5" (21.6cm)
WHEELBASE	6.3" (1.9m)
FLOOR LOADING	34 psi(2.39 kg/cm ²)
TAILSWING AT PIVOTAL HEIGHT	ZERO
TURRET ROTATION	continuous
MECHANICAL IDLE STOP (Dual fuel Only)	950
ENGINE RPM SETTING (Dual Fuel)	1400(idle),2200,3350
ENGINE RPM SETTING (Diesel & Ford 1.3)	1400(idle),1800,3000
ELECTRICAL SYSTEM (engine)	12 VDC
BATTERY (engine)	12 Volt, 850 CCA
LIFT TIME (minimum)(entry height to maximum platform height)	124 Seconds
LOWERING TIME (minimum)(maximum platform height to entry height)	92 Seconds
SYSTEM RELIEF PRESSURE (R1)	2600 psi
TRAVEL SPEED (maximum at stowed height)	3.0 mph (4.8kph)
TRAVEL SPEED (maximum at elevated height)	0.8mph (1.3kph)
HYD-RESERVOIR CAPACITY	45 gal. (170 ltr.)
HYD-SYSTEM CAPACITY	54 gal. (203.8 ltr.)
FUEL TANK CAPACITY	15 gal. (56.8 ltr.)
AMBIENT NOISE LEVEL	85 db

NOTE: For additional specifications, refer to Section 1.

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Table 2-6. Standard Operating Times

FUNCTION TEST	SECONDS
Riser Up	32-36
Riser Down	24-26
Boom Up	24-26
Boom Down	16-18
Boom Extend (S/N 95210 and above.)	12-16
Boom Extend (S/N 95209 and below.)	30-34
Boom Retract	20-22
Jib Up	12-14
Jib Down	10-12
Platform Rotate Left	7-9
Platform Rotate Right	7-9
Turret Rotate Clockwise	57-63
Turret Rotate Counter Clockwise	57-63

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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

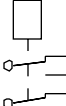
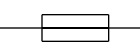
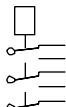
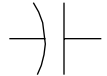
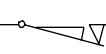
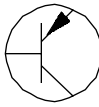
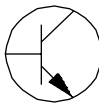
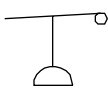
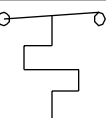
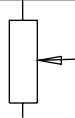
	CIRCUITS CROSSING NO CONNECTION		EMERGENCY STOP BUTTON		RELAY, SINGLE POLE SINGLE THROW
	CIRCUITS CONNECTED		KEY SWITCH		RELAY, SINGLE POLE DOUBLE THROW
	BATTERY		FOOT SWITCH		RELAY, DOUBLE POLE SINGLE THROW
	GROUND		TOGGLE SWITCH		RELAY, DOUBLE POLE DOUBLE THROW
	FUSE		BUSH BUTTON SWITCH		RELAY, TRIPLE 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		RHEOSTAT

Table 3-2. Skyjack Booms, Hydraulic Symbols Legend

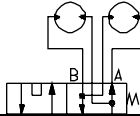
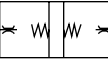
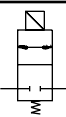
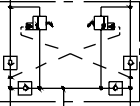
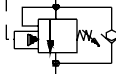
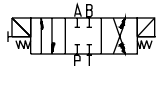
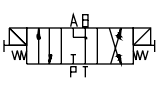
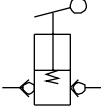
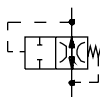
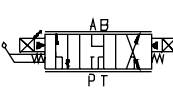
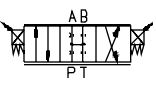
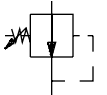
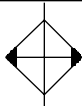
 MAIN LINES Solid	 ADJUSTABLE FLOW CONTROL	 ROTARY ACTUATOR
 PILOT LINES Dashed	 CHECK VALVE	 FIXED DISPLACEMENT HYDRAULIC MOTOR BIDIRECTIONAL
 LINES CROSSING NO CONNECTION	 SHUTTLE VALVE	 VARIABLE DISPLACEMENT HYDRAULIC MOTOR
 LINES CONNECTED	 ACCUMULATOR, GAS CHARGED	 BIDIRECTIONAL SERIES PARELLEL HYDRAULIC 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
 RELIEF VALVE	 SINGLE ACTING CYLINDER	 THREE POSITION FOUR WAY OPEN CENTER OPEN PORT
 PRESSURE REDUCING VALVE	 DOUBLE ACTING CYLINDER	 OIL COOLER
 FIXED ORIFICE	 DOUBLE ACTING DOUBLE RODDEED CYLINDER	 SERVO
 BRAKE CYLINDER	 SPRING APPLIED HYDRAULICALLY RELEASED BRAKE	

Table 3-3. Relay Schedule

RELAY NUMBER	RELAY FUNCTION	WIRES	LOCATION	ENGINE
01CR	Engine Cutout Relay	01,02,09,01A,54	Base Panel	All
08CR1	Start Dissalbe Relay	08,02,57,57A	Platform Console	All
08CR2	Drive Enable Relay	08,02,62C,62B	Platform Console	All
08CR3	Foot Switch Brake Relay	08,02,28,28A	Base Panel	All
108CR	Emergency Pump Contactor	108,02,03,108A	Base Panel	All
11CR	Fuel Select/Glow Plug	11,02,77,50,56/ 11,02,54,11A	Engine Panel	All
17CR1	Steer Directional Relay	17,02,23A,24,24A	Base Panel	All
17CR2	Steer Directional Relay	17,02,23,23A,24A	Base Panel	All
17CR3	Drive Directional Relay	17,02,61,62A	Base Panel	All
17CR4	Drive Directional Relay	17,02,62A,62B	Base Panel	All
20ACR	Boom Control Relay	20A,02,10,10A	Base Panel	All
20CR	Function Select Relay	20,02,20A,09	Base Panel	All
21CR1	Dump Valve Relay	21,02,21A,09	Base Panel	All
21CR2	Emergency Pump Relay	21,02,01A,108	Base Panel	All
26ACR	Brake Relay	02,09,26A,26B	Base Panel	All
28ACR	Tilted Braking Relay	02,09,28A,28B	Base Panel	All
28CR	Tilted Function Dissable Relay	28,02,08,99	Platform Console	All
30ACR	Level Circuit Interlock Relay	30A,02,10,47	Base Panel	All
30BCR	Level Circuit Interlock Relay	30B,02,08,08A	Platform Console	All
49CR	Horn Option Relay	49,02,09,49A	Base Panel	Option
51CR1	Tilted Drive Cutout	51,02,62,62A	Base Panel	All
51CR2	Brake Feed Relay	51,26,26A,02	Base Panel	All
54CR	Engine Shutdown Relay	54,02,76,77,54C	Engine Panel	All
57ACR	Starter Relay	57A,02,03,03A	Engine Panel	All
60ACR	Base Panel Power Relay	60A,02,07,09	Base Panel	All
74CR	Choke Relay	74,02,54,74A	Base Panel	All
114CR	Steering Bypass Relay	114,114A,09,02	Base Panel	All

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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.	WIRE COLOR
1	PUR/BLK	20	ORG/BLU	39	BLK/RED	64	WHT/BRN	93	BLK SHLD
2	WHT	21	WHT/RED	40	BLU/RED	68	GREY	94	YEL/GREY
3	GRN/PUR	22	PUR/GRN	41	BLU/PUR	69	WHT/GRN	96	WHT/GR-EY
4	RED/YEL	23	BLK/WHT	46	RED/BLK	74	GRN/GREY	97	ORG/GREY
5	PUR	24	BLU/BLK	47	PUR/ORG	75	GREY/PUR	98	RED SHLD
6		25	BRN/BLK	48	YEL/GREY	76	BRN/BLU	98A	BLK SHLD
7	RED	26	BLU/YEL	49	GRN/RED	77	BRN/GREY	99	BLK/GREY
8	PUR/WHT	27	RED/BLK/ WHT	50	BRN	78	RED/BLU	103	BLK/PUR
9	YEL	28	GRN	51	BLK/GRN	79	BRN/PUR	107	BLK/BLU
10	BLU/WHT	29	GREY/ORG	53	BRN/RED	80	GREY/WHT	108	YEL/BRN
11	WHT/ORG	30	RED/GRN	54	PUR/RED	81	GREY/BLK	109	GRN/YEL
12	GREY/ORG	31	RED/WHT	55	YEL/PUR	82	BRN/WHT	110A	BLU
13	ORG	32	GRN/BLK	56	YEL/BLK	83	BLU/GREY	110B	BRN
14	BLK	33	GRN/WHT	57	BRN/GRN	84	WHT/BLK/ PUR	111	GREY/GRN
15	BLU	34	ORG/BLK	59	YEL/BLU	85	GREY/BLU	114	YEL/RED
16	WHT/BLK	35	ORG/WHT	60	WHT/BLU	88	BLK/GRN	115	WHT/PUR
17	BLU/GRN	36	RED/PUR	61	GREY/BRN	90	RED/GREY	118	PUR/ORG
18	GRN/BLU	37	WHT/RED/ BLK	62	GREY/RED	91	RED SHLD		
19	ORG/GRN	38	ORG/RED	63	GREY/YEL	92	GRN SHLD		

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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./FIGURE 3-2. OPERATOR'S CONTROL CONSOLE DIAGRAM PARTS LIST

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	701930	TOGGLE SWITCH, SPDT 2 position maintained	AR
2	701929	TOGGLE SWITCH, SPDT 2 position momentary	AR
3	701931	IGNITION SWITCH, Rotary	1
4	(Ref.)	SWITCH ASSEMBLY, Emergency stop	1
	102769	• SWITCH HEAD, Emergency stop	1
	103281	• CONTACT BASE, NC switch	1
5	702662	TOGGLE SWITCH, DPDT 3 position momentary	3
6	102853	TOGGLE SWITCH, SPDT 3 position momentary	4
7	(Ref.)	LIGHT ASSEMBLY, Indicator	3
	103202	• LIGHT HEAD	1
	102671	• LIGHT BASE	1
	703185	•• BULB	1
8	702262	PLUG, 1/2" Knockout	2
9	707177	POTENTIOMETER	1
	707253	• KNOB, Potentiometer	1
10	704330	CONTROLLER ASSEMBLY, Drive (without horn)	1
	707658	CONTROLLER ASSEMBLY, Drive (with horn)	1
11	704332	CONTROL BOARD, Boom function	1
12	701943	RELAY, 12 Volt sealed	3
13	103057	BEEPER, 4-28 Volt alarm	1
14	103036	STRAIN RELIEF, Plastic	1
15	702186	WIRE DUCT, 1-1/2"	20"
	707187	COVER, Wire duct	20"
16	707143	TERMINAL BLOCK, Through	16
17	707144	TERMINAL BLOCK, Ground	2
18	707146	END PLATE, Terminal block	1
19	707147	END STOP, Terminal block	2
20	707148	JUMPER, Terminal block	1
21	707149	DIN RAIL, Terminal	.18
22	707145	TERMINAL BLOCK, Diode	2
23	700187	FOOT SWITCH	1
24	707875	RECEPTACLE, 40 Pin connector	1
	707847	• GASKET, Connector	1
	705258	• PIN, Contact	36
	707822	•• TOOL, Pin removal	AR
	707823	•• TOOL, Crimp	AR
25	102921	DIODE, 6 Amp/1000PIV	1

FIGURE 3-1. OPERATOR'S CONTROL CONSOLE DIAGRAM (S/N 95088 AND ABOVE.)

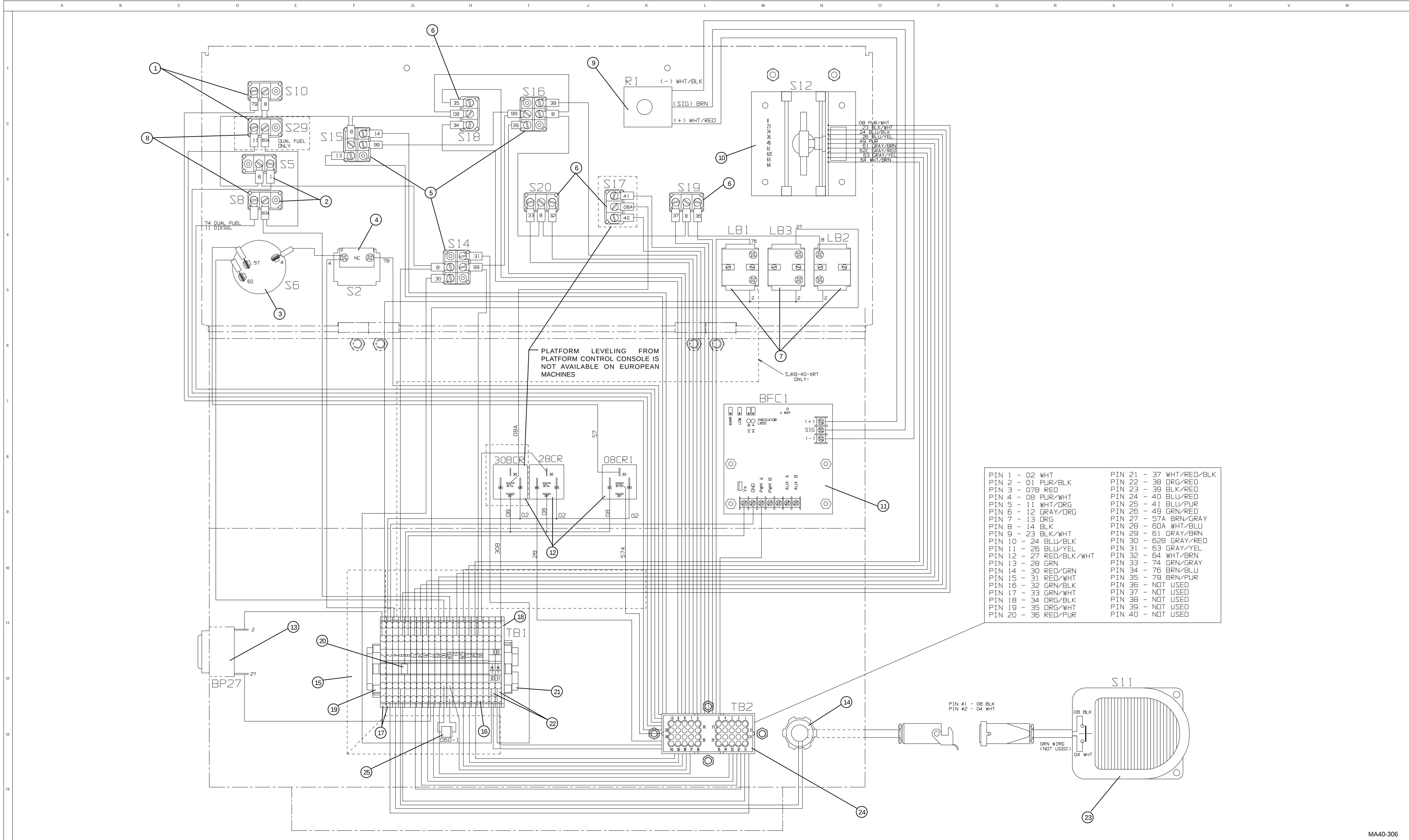


FIGURE 3-2. OPERATOR'S CONTROL CONSOLE DIAGRAM (S/N 95087 AND BELOW.)

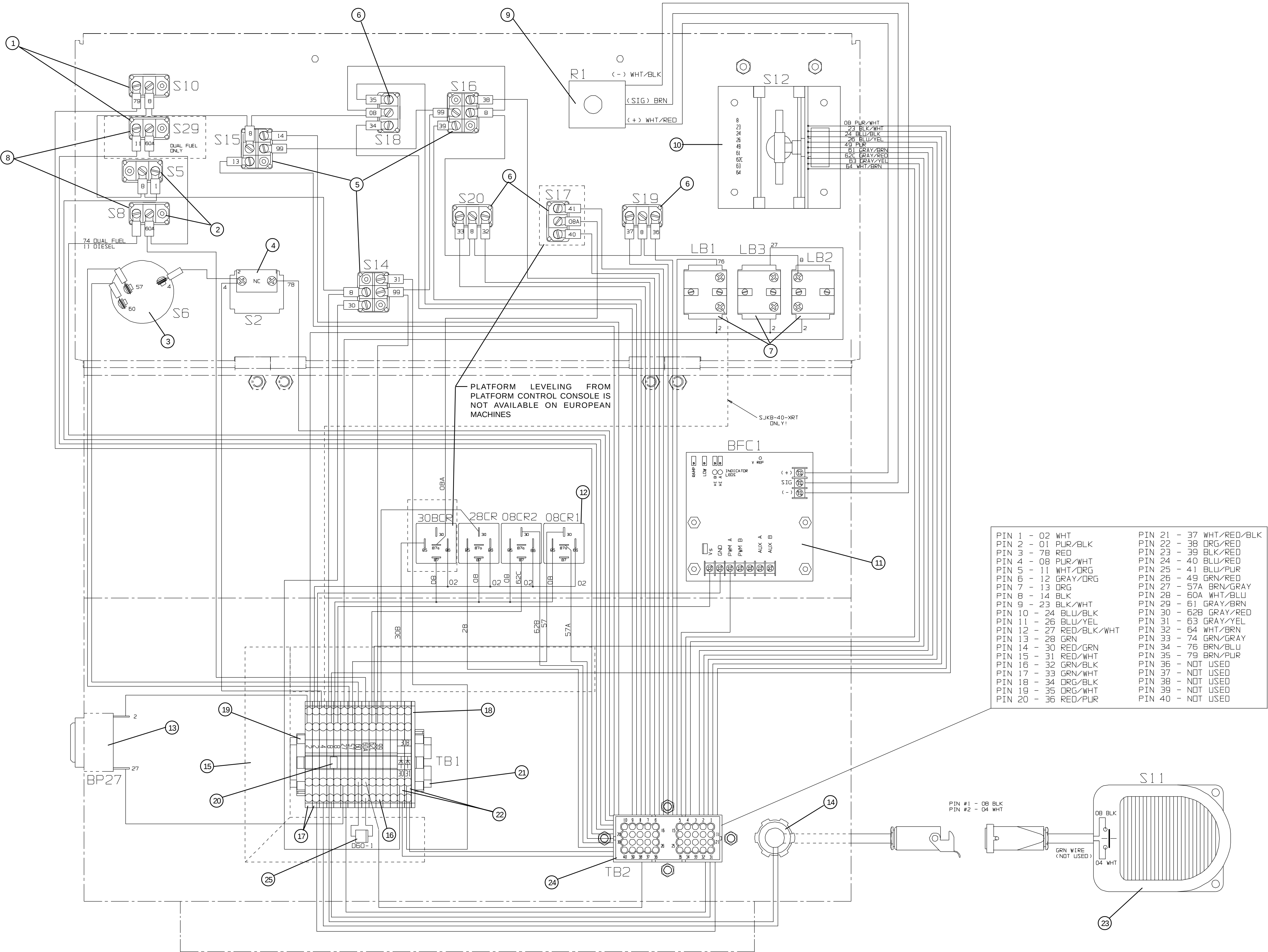
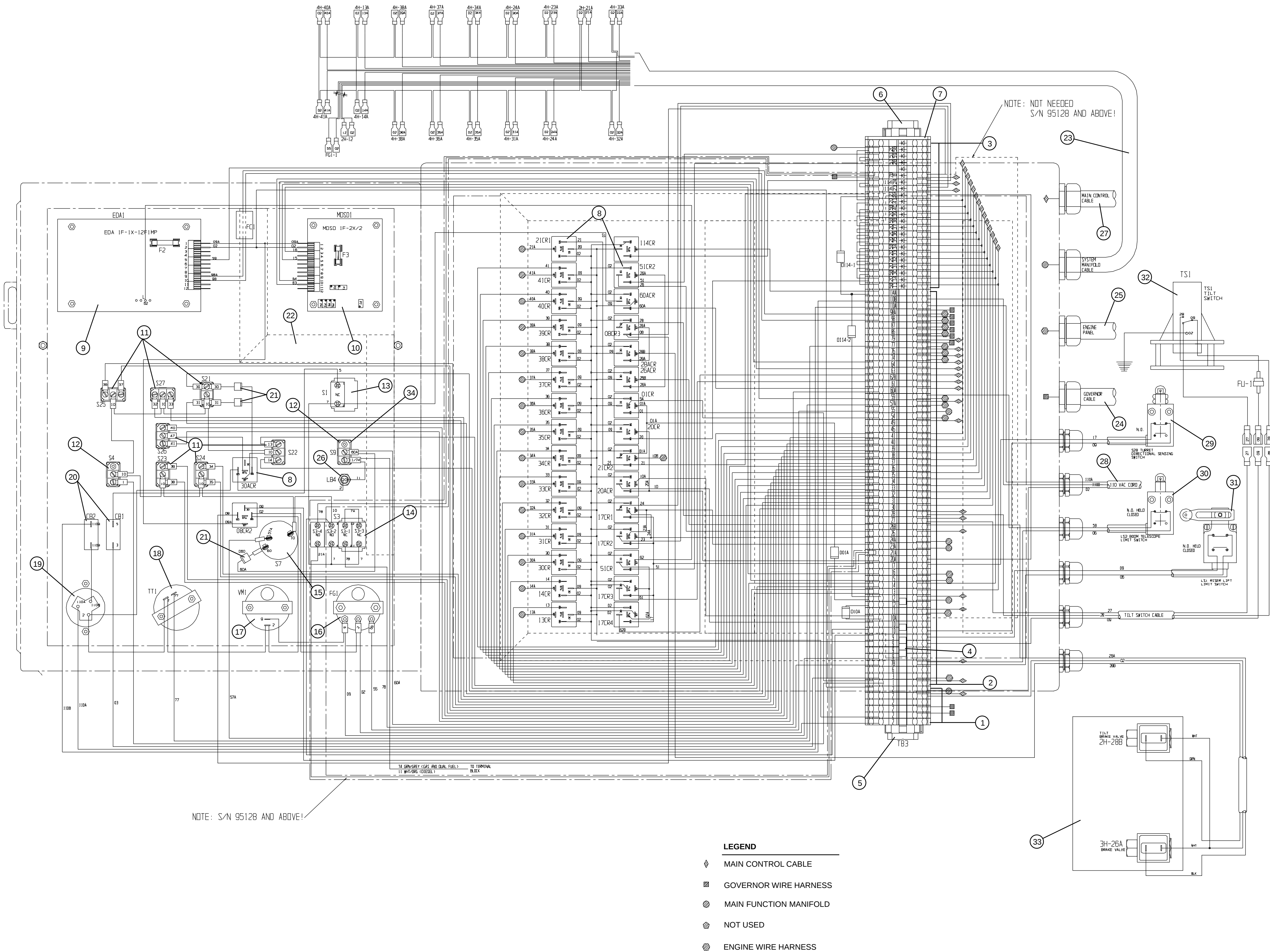


FIGURE 3-3. BASE CONTROL/ELECTRICAL PANEL WIRING DIAGRAM (S/N 95088 AND ABOVE.)



[illegible]

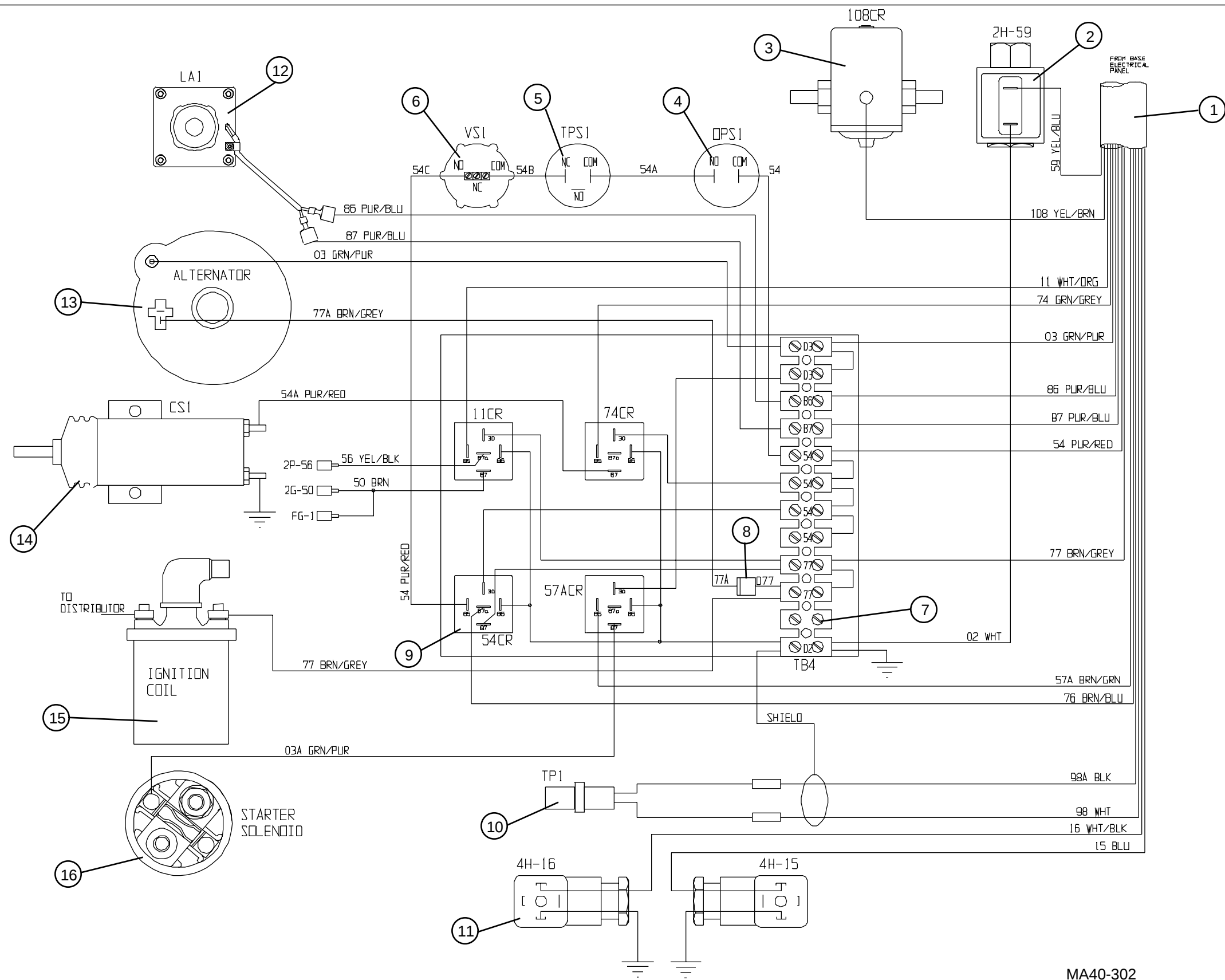
FIGURE 3-3/FIGURE 3-4. BASE ELECTRICAL/CONTROL PANEL DIAGRAM PARTS LIST

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	707144	TERMINAL BLOCK, Ground	6
2	707143	TERMINAL BLOCK, Through	61
3	707145	TERMINAL BLOCK, Diode	22
4	707148	JUMPER, Terminal block	5
5	707149	DIN RAIL, Terminal	20"
6	707147	END BLOCK, Terminal block	2
7	707146	END PLATE, Terminal block	1
8	701943	RELAY, 12 Volt sealed	AR
9	701547	CARD, Multi purpose controller (EDA) • FUSE, 250 Volt, 3 amp	1
10	701546	CARD, Dual solenoid driver (MDSD) • FUSE, 125 Volt, 4 amp	1
11	102853	SWITCH, Toggle 3 position momentary	7
12	701929	SWITCH, Toggle 2 position momentary	AR
13	(Ref.)	SWITCH ASSEMBLY, Emergency stop	1
	102769	• HEAD, Emergency stop switch	1
	103281	• BASE, N.C. Contact	1
14	(Ref.)	SWITCH ASSEMBLY, Key	1
	102753	• HEAD, Key switch	1
	104466	• Key, #455	1
	103279	• BASE, Contact 2 N.C.	1
	103141	• CONTACT, N.O.	AR
15	701931	SWITCH, Ignition	1
16	706282	GAUGE, Fuel	1
17	704732	VOLTMETER	1
18	701925	METER, Hour	1
19	105271	PLUG, Recessed male 110 volt	1
	113227	• BOOT, Rubber	1
20	702402	BREAKER, 15 Amp circuit	2
21	102921	DIODE, 6 Amp/1000PIV	5
22	706074	SNAP-ON FERRITE CORE	1
23	707722	WIRE HARNESS, Main manifold	1
24	707709	WIRE HARNESS, Governor (All Kubota Engines)	1
	708958	WIRE HARNESS, Governor (All Ford Engines)	1
25	707708	WIRE HARNESS, Engine control	1
	700165	• CABLE, 20 Ga. shielded	180"
26	703720	LIGHT, Indicator amber (diesel only)	1
27	704677	CONTROL CABLE, 18/30	660"
28	105269	CABLE, 14/3	732"
29	706294	LIMIT SWITCH, Booted	1
30	700160	LIMIT SWITCH	1
31	702434	LIMIT SWITCH ASSEMBLY	1
32	700552	TILT SWITCH	1
33	704716	BRAKE MANIFOLD	1
34	702262	PLUG, 1/2" Knockout (All Ford Engines)	1

FIGURE 3-5. ENGINE WIRING DIAGRAM PARTS LIST (Kubota Gas and Dual Fuel)

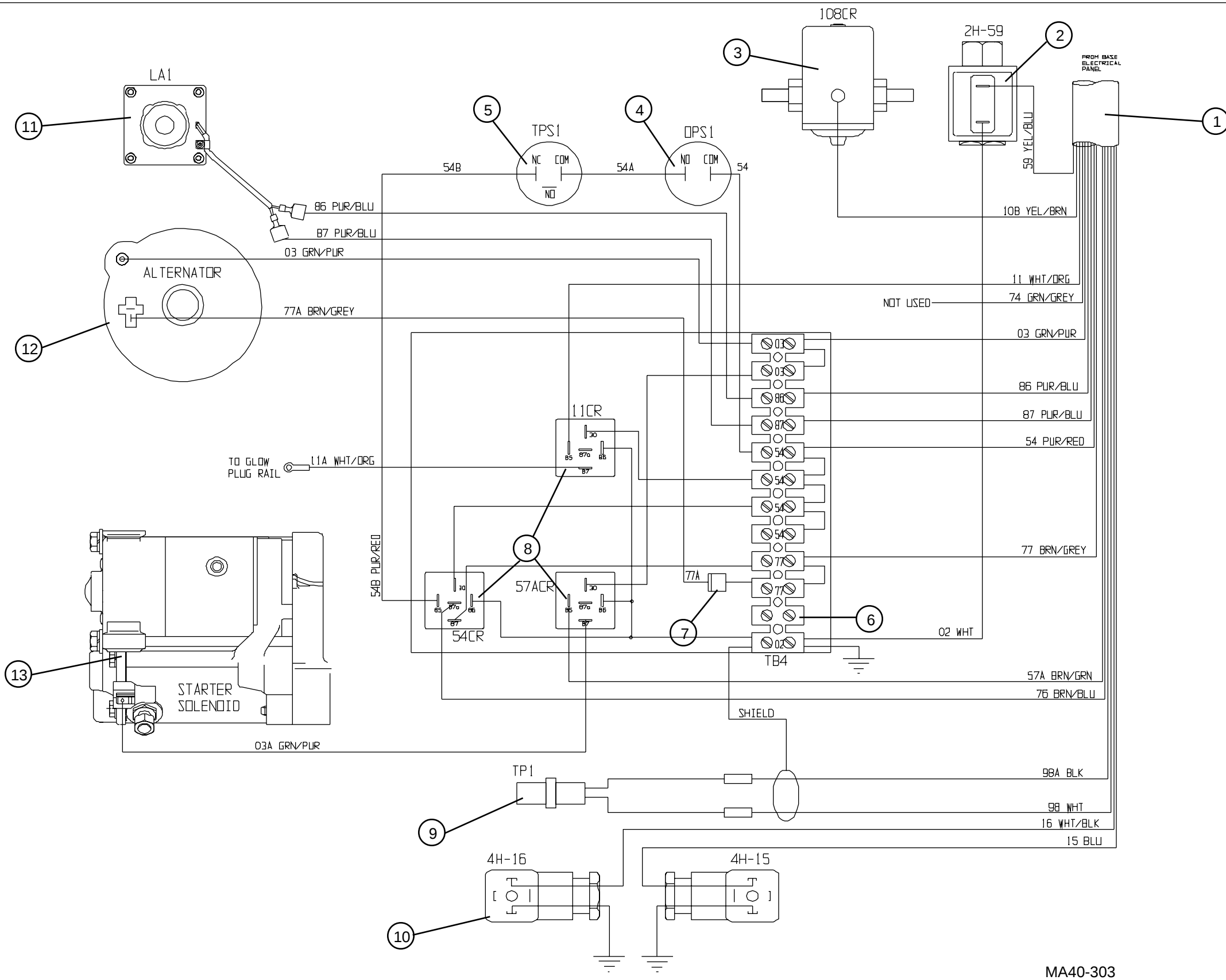
Index No.	Skyjack Part No.	Description	Units per Assy.
1	707708	WIRE HARNESS, Engine control	1
	700165	• CABLE, 20 Ga. shielded	180"
2	708332	VALVE, High torque	1
	708331	• COIL, 12 Volt	1
3	300242	CONTACTOR, Emergency pump	1
4	112838	PRESSURE SENSOR, Oil	1
5	708392	TEMPERATURE SENSOR, Coolant	1
6	111623	DIAPHRAM SWITCH, Vacuum	1
7	103011	TERMINAL BLOCK, Large	1
8	102921	DIODE, 6 Amp/1000 PIV	1
9	701943	RELAY, 12 Volt sealed	4
10	707824	TACHOMETER SENSOR	1
11	104345	CONNECTOR, Directional valve	2
12	707677	THROTTLE ACTUATOR, Linear	1
13	115329	ALTERNATOR	1
14	707676	CHOKE ACTUATOR, Linear	1
15		COIL, Ignition	1
16	115309	STARTER	1

FIGURE 3-5. ENGINE WIRING DIAGRAM (Kubota gas and Dual Fuel)



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FIGURE 3-6. ENGINE WIRING DIAGRAM (Diesel)



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FIGURE 3-6. ENGINE WIRING DIAGRAM PARTS LIST (Diesel)

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	707708	WIRE HARNESS, Engine control	1
	700165	• CABLE, 20 Ga. shielded	180"
2	708332	VALVE, High torque	1
	708331	• COIL, 12 Volt	1
3	300242	CONTACTOR, Emergency pump	1
4	102838	PRESSURE SENSOR, Oil	1
5		TEMPERATURE SENSOR, Coolant	1
6	103011	TERMINAL BLOCK, Large	1
7	102921	DIODE, 6 Amp/1000 PIV	1
8	701943	RELAY, 12 Volt sealed	3
9	707824	TACHOMETER SENSOR	1
10	104345	CONNECTOR, Directional valve	2
11	707675	THROTTLE ACTUATOR, Linear	1
12	115329	ALTERNATOR	1
13	115457	STARTER	1

FIGURE 3-7. ENGINE WIRING DIAGRAM PARTS LIST (Ford 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	707709	HARNESS, Governor	1
	700165	• SHIELDED CABLE, 20 Ga.	60"
3	707708	HARNESS, Engine wiring	1
	700165	• SHIELDED CABLE, 20 Ga.	156"
4	FORD	TERMINAL STRIP	2
5	115389	SENSOR, Magnetic tachometer	1
6	704616	RELAY, 12 Volt time delay	1
7	FORD	SWITCH, 6 PSI Oil pressure	1
8	701943	RELAY, 12 Volt sealed	3
9	707677	THROTTLE ACTUATOR, Linear	1
10	103256	CABLE, 18/2	76"

FIGURE 3-7. ENGINE WIRING DIAGRAM (Ford Dual Fuel)

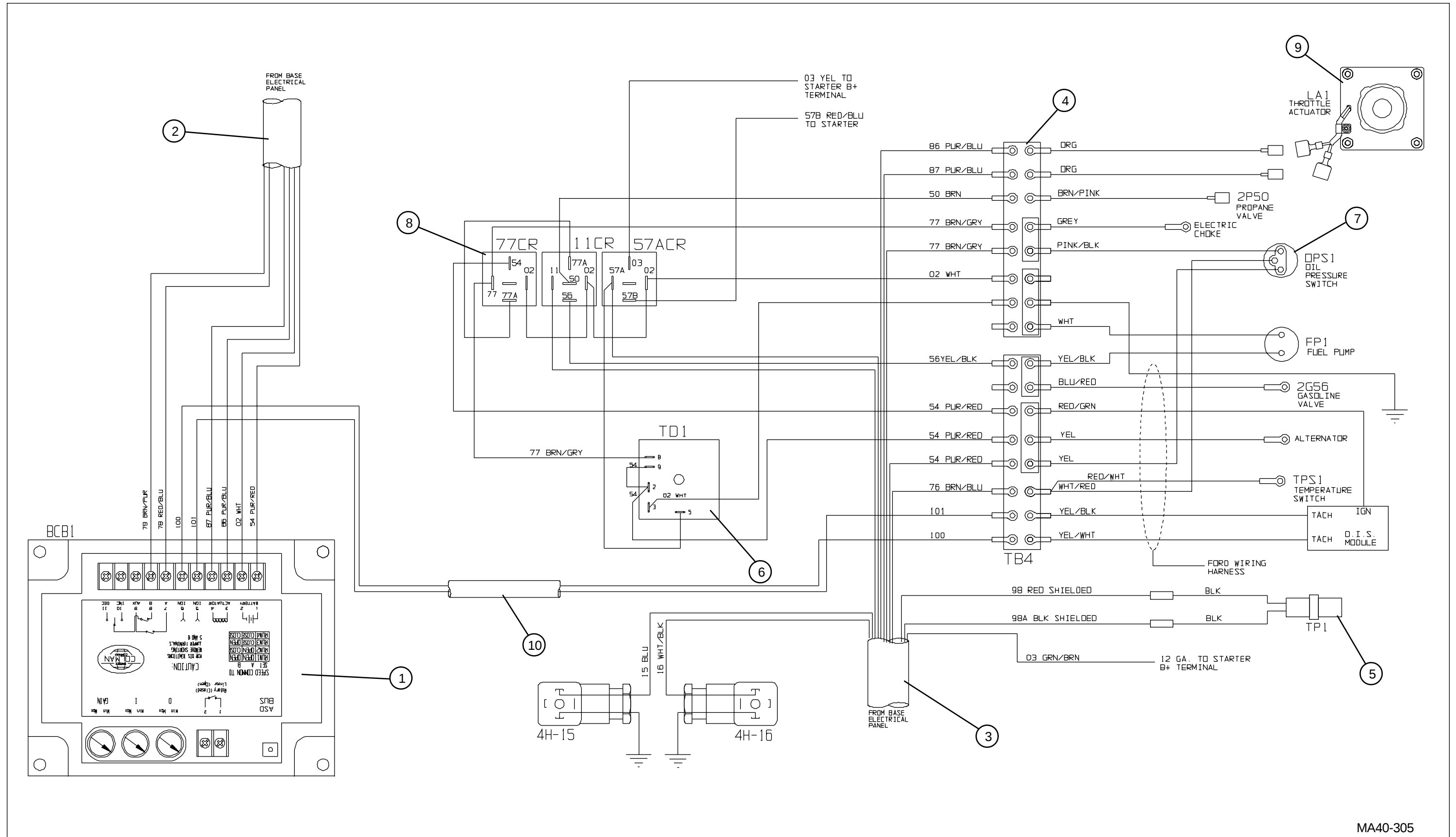


FIGURE 3-8/ FIGURE 3-9./FIGURE 3-10./FIGURE 3-11./ FIGURE 3-12. ELECTRICAL SCHEMATIC PARTS LIST

Ref. No.	Skyjack Part No.	Description	Units per Assy
		1 2 3 4 5 6 7	
01CR THRU 74CR	701943	RELAY, 12 Volt sealed	AR
108CR	300242	CONTACTOR, Emergency pump	1
114CR	701943	RELAY, 12 Volt sealed	1
2G-56	111626	LOCKOFF, Gasoline	1
2H-12	707825	FLOW CONTROL VALVE, Proportional	1
2H-21A	707820	VALVE COIL, Dump	1
2H-59	708331	VALVE COIL, High speed drive	1
2P-50	111618	LOCKOFF, Propane	1
3H-26B	703803	VALVE COIL, Brake	1
2H-28B	703803	VALVE COIL, 5° Tilt brake	1
4H-13A	707821	VALVE COIL, Riser down	1
4H-14A	707821	VALVE COIL, Riser up	1
4H-15	\$	REVERSE DRIVE VALVE	1
4H-16	\$	FORWARD DRIVE VALVE	1
4H-23A	707821	VALVE COIL, Right steer	1
4H-24A	707821	VAVLE COIL, Left steer	1
4H-30A THRU 4H-41	707821	VALVE COIL , Directional	12
B1	103295	BATTERY, 12 Volt 675CCA	1
BCB1	707678	Governor control (Kubota engine)	1
	701643	Governor control (Ford engine)	1
BFC	704332	CONTROL BOARD, Boom function	1
BP20A	707912	ALARM, Boom motion (option)	1
BP27	103057	BEEPER, Tilt alarm	1
BP46	707912	ALARM, All motion (option)	1
BP58A	707912	ALARM, Boom descent (option)	1
BP-26A	707912	ALARM, Travel (option)	1
CB1	702402	CIRCUIT BREAKER	1
D08 THRU D114	102921	DIODE, 6 Amp/ 1000 PIV	AR
DS1	102600	DISCONNECT SWITCH, Battery	1
EDA1	701547	CONTROLLER BOARD	1
F1	114866	FUSE, 250 Volt/1 amp	1
FG1	706282	GUAGE, Fuel level	1
FG1-1	706172	SENDING UNIT, Fuel guage	1
FL-20A	703323	LIGHT ASSEMBLY, Flashing (option)	1
FP1	115304	FUEL PUMP, Electric (Kubota engine)	1
	115387	FUEL PUMP, Electric (Ford engine)	1
H1	703322	HORN, (Option)	1
LA1	707675	THROTTLEACTUATOR, Linear (diesel)	1
	707677	THROTTLEACTUATOR, Linear (gas and dual fuel)	1
CS1	707676	CHOKE ACTUATOR, Linear (gas and dual fuel only)(Kubota engine)	1
LB1-LB3	(Ref.)	LIGHT ASSEMBLY, Indicator	3
	103202	• LIGHT HEAD	1
	102671	• LIGHT BASE	1
	703185	•• BULB	1

Ref. No.	Skyjack Part No.	Description	Units per Assy
		1 2 3 4 5 6 7	
LB4	703720	INDICATOR LIGHT, Amber (diesel only)	1
LS1	702434	LIMIT SWITCH, Riser lift	1
LS2	700160	LIMIT SWITCH, Boom telescope	1
MDSD1	701546	DUAL SOLENOID DRIVER BOARD	1
OPS1	112838	PRESSURE SENSOR, Oil (Kubota engine)	1
R1	707177	SPEED CONTROL SWITCH, Boom function	1
S1-S2	(Ref.)	SWITCH ASSEMBLY, Emergency stop	2
	102769	• SWITCH HEAD, Emergency stop	1
	103281	• CONTACT BASE, NC switch	1
S3	(Ref.)	SWITCHASSEMBLY, Key	1
	102753	• HEAD, Key switch	1
	104466	• Key, #455	1
	103279	• BASE, Contact 2 N.C.	1
	103141	• CONTACT, N.O.	1
S4-S5	701929	TOGGLE SWITCH, 2 Position momentary SPDT	2
S6-S7	701931	IGNITION SWITCH	2
S8-S9	701929	TOGGLE SWITCH, 2 Position momentary SPDT	2
S10	701930	TOGGLE SWITCH, 2 Position maintained SPDT	1
S11	700187	FOOT SWITCH	1
S12	704330	CONTROLLER, Drive/steer (without horn)	1
	707658	CONTROLLER, Drive/steer (with horn)	1
S14-S18	702662	TOGGLE SWITCH, 3 Position momentary DPDT	3
S19-S27	102853	TOGGLE SWITCH, 3 Position momentary SPDT	11
S28	706294	LIMIT SWITCH, Turret directional sensing (booted)	1
S29	701930	TOGGLE SWITCH, 2 Position maintained SPDT	1
TP1	707824	TACHOMETER SENSOR (Kubota engine)	1
	115389	TACHOMETER SENSOR (Ford engine)	1
TPS1	113400	TEMPERATURE SENSOR (Kubota engine)	1
TS1	700552	TILT SWITCH	1
TT1	701925	HOUR METER	1
VM1	704732	VOLT METER	1
VS1	111623	VACUUM SWITCH (Kubota dual fuel)	1
TD1	704616	RELAY, Time delay (Ford engine)	1
	708685	CABLE ASSEMBLY, Starter to disconnect	1
	708686	CABE ASSEMBLY, E-Pump to disconnect	1
	707230	CABE ASSEMBLY, Battery to chassis	1
	706524	CABE ASSEMBLY, Battery to disconnect	1
	707230	CABE ASSEMBLY, Engine block to chassis	1
	706096	CABE ASSEMBLY, E-Pump relay to E-pump	1
	709554	CABE ASSEMBLY, Starter to alternator	1

FIGURE 3-9. ELECTRICAL SCHEMATIC (Kubota Gas and Dual Fuel)(S/N 95087 and below.)

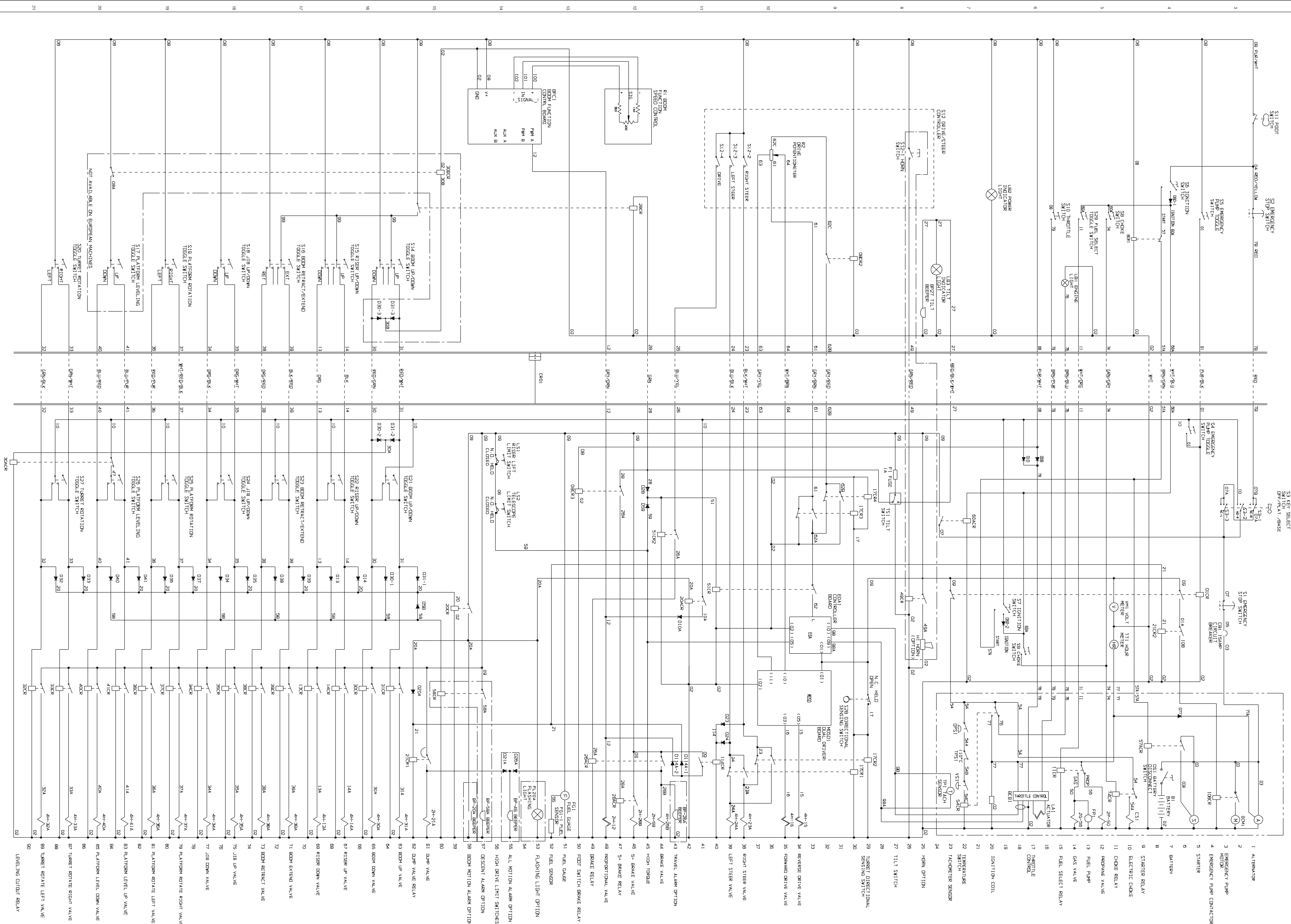
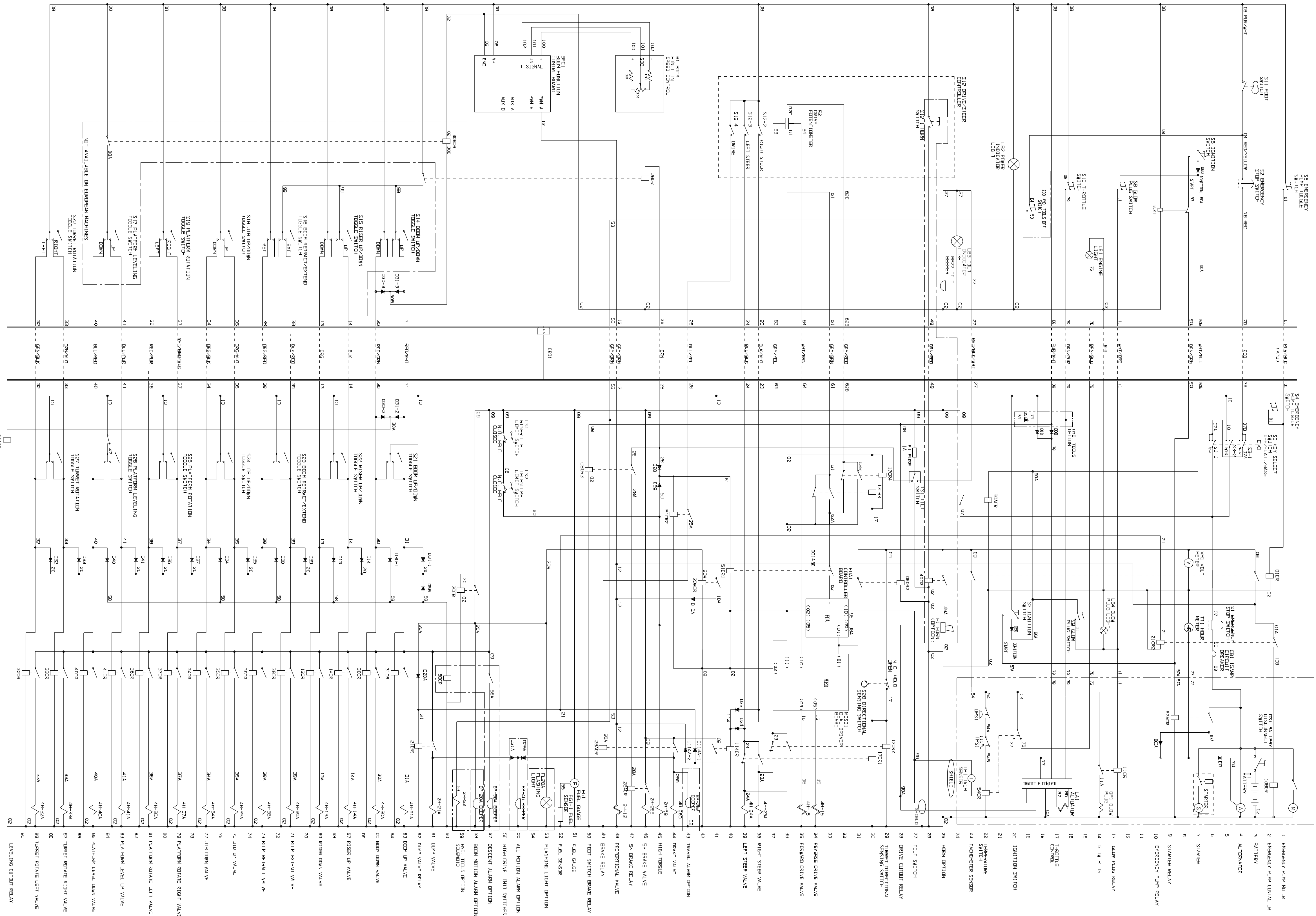


FIGURE 3-10. ELECTRICAL SCHEMATIC (Diesel)(S/N 95088 and above.)



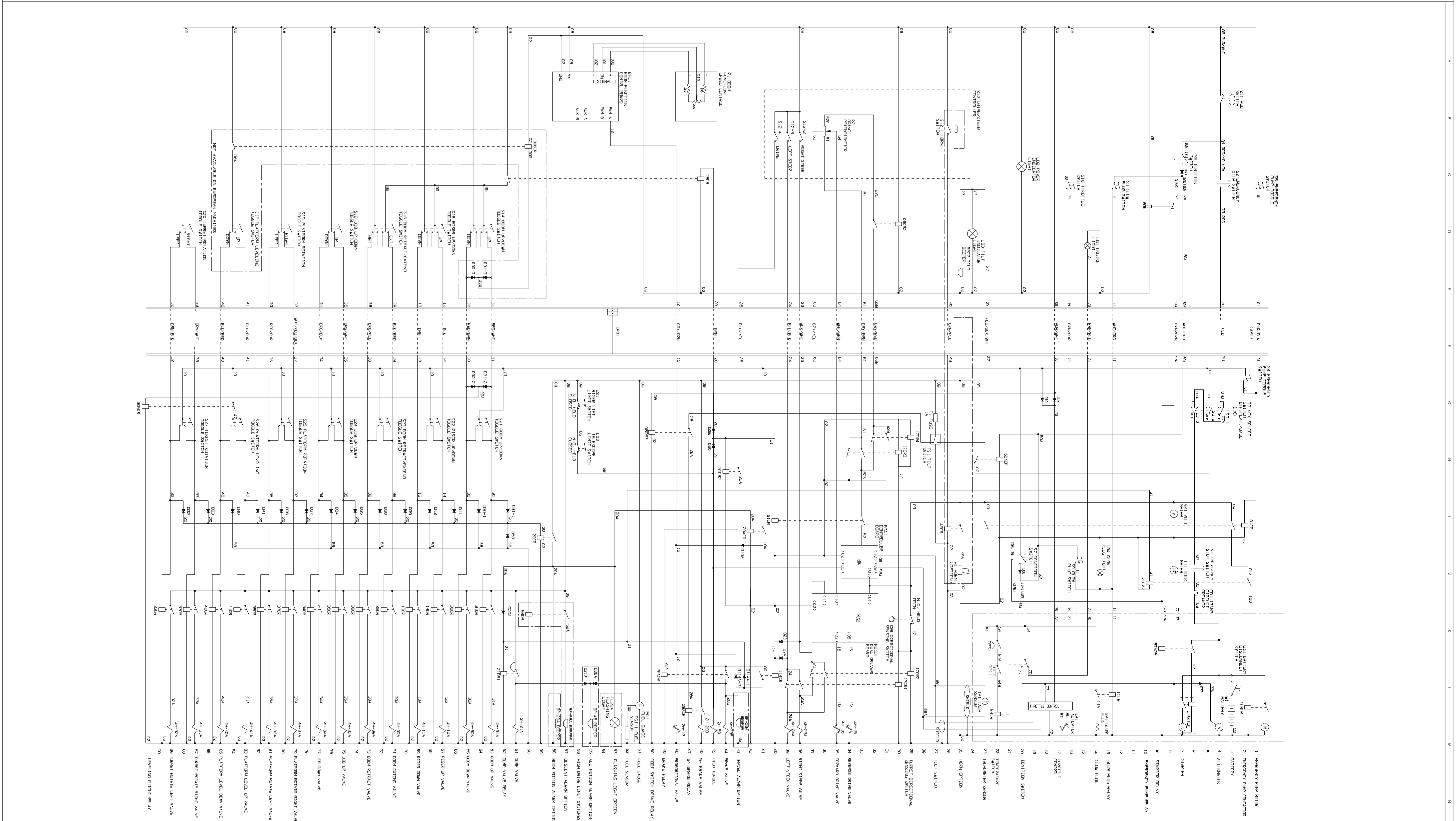


FIGURE 3-12. ELECTRICAL SCHEMATIC (Ford Dual Fuel)

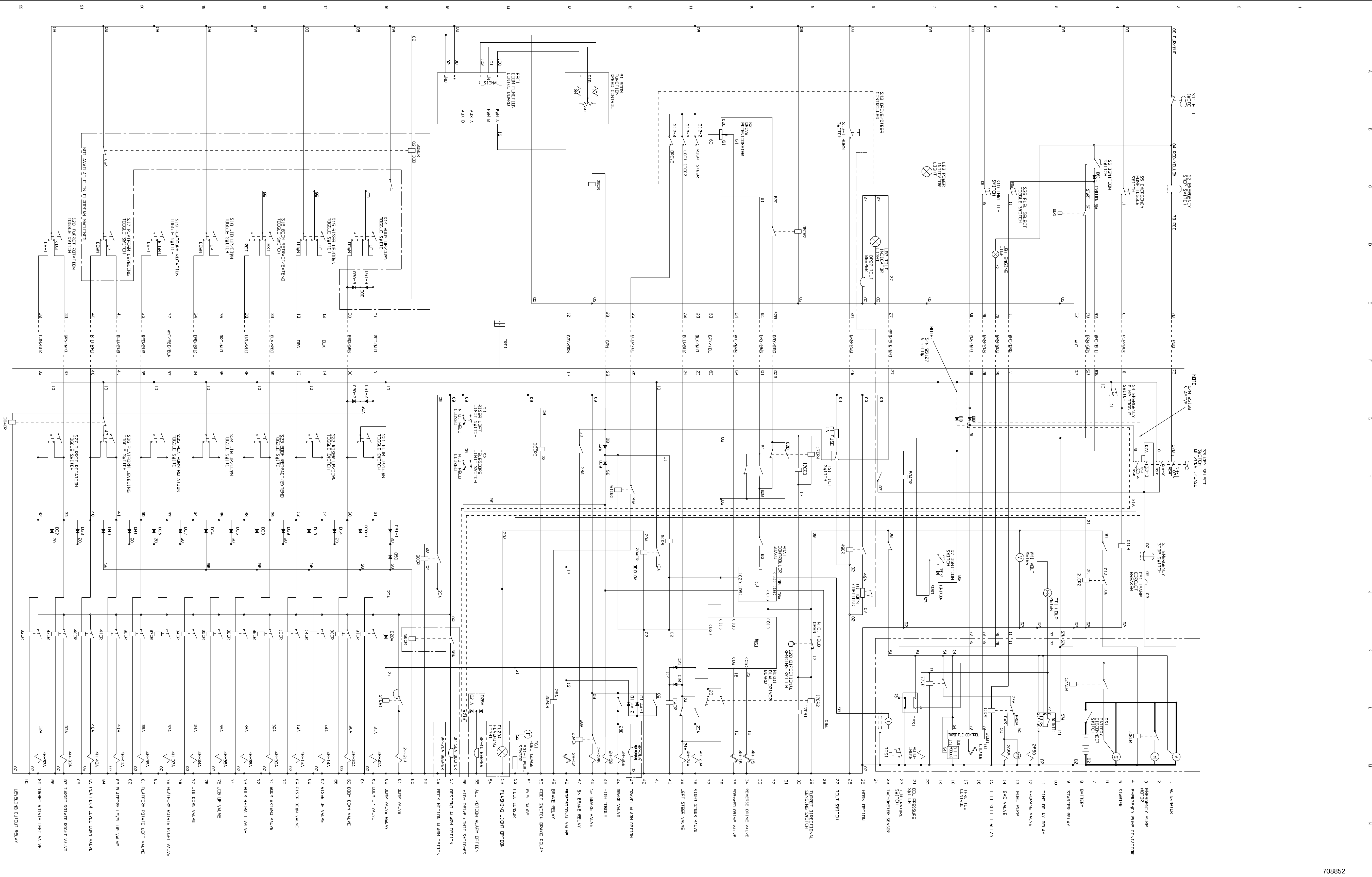


FIGURE 3-13. HYDRAULIC SCHEMATIC

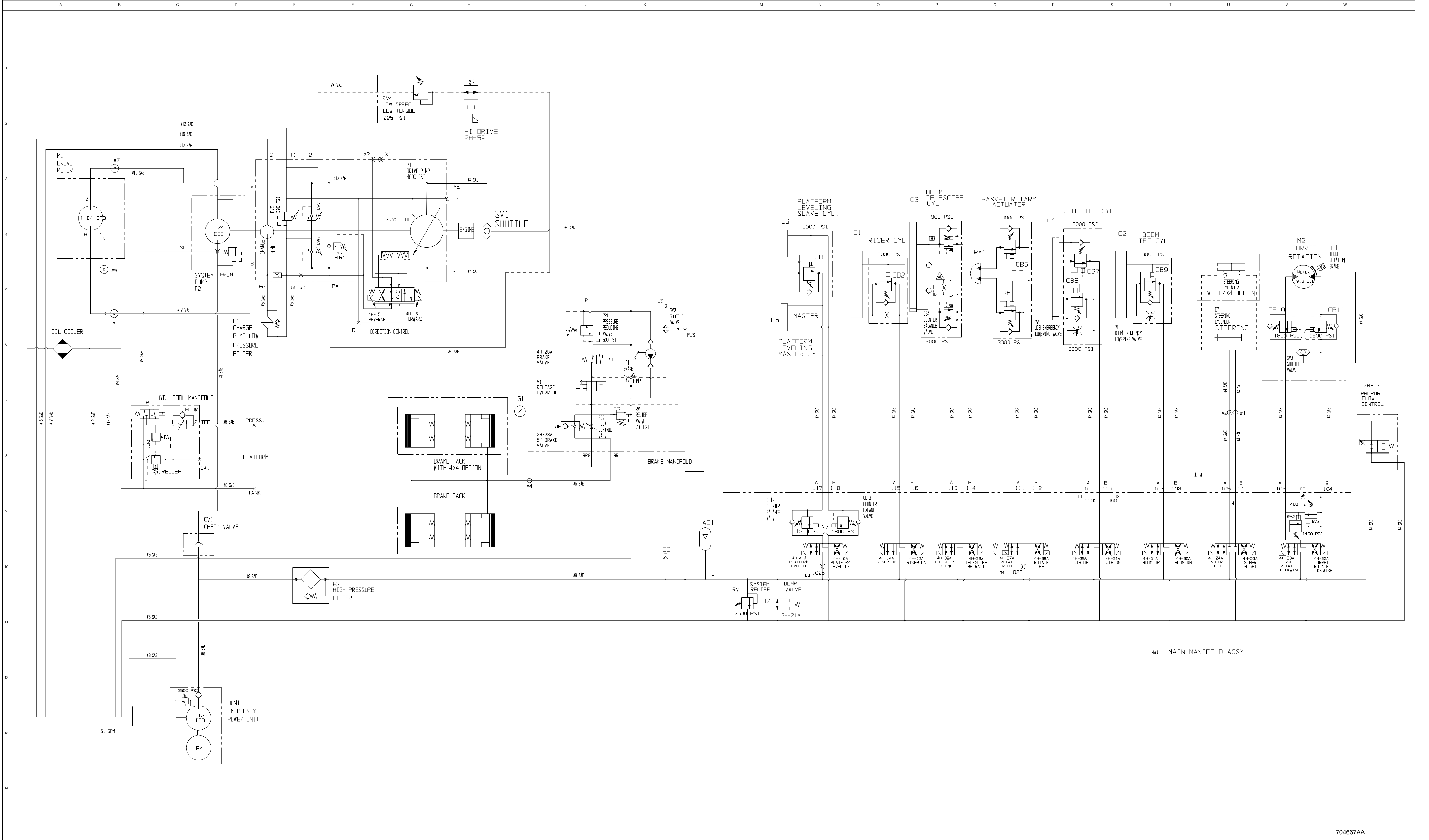


FIGURE 3-13. HYDRAULIC SCHEMATIC PARTS LIST

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	
2H-12	704968	VALVE, Proportional flow control	1	HP1	703193	VALVE, Brake release hand pump	1
2H-21A	700677	VALVE, Dump	1	M1	704958	MOTOR, Drive	1
2H-28B	703190	VALVE, 5° Brake	1	M2	702992	MOTOR, Turret rotation	1
2H-59	708332	VALVE, High speed drive	1	OC1	702031	COOLER, Oil	1
3H-26B	703189	VALVE, Brake	1	P1	703693	PUMP, Drive (4800 PSI)	1
4H-13A	704822	VALVE, Riser down	1	P2	704957	PUMP, System	1
4H-14A	704822	VALVE, Riser up	1	POR1	710840	VALVE, Pressure override	1
4H-15	\$	VALVE, Reverse drive	1	PR1	703191	VALVE, Pressure reducing (600 PSI)	1
4H-16	\$	VALVE, Forward drive	1	RA1	701498	ACTUATOR, Basket rotary	1
4H-23A	704821	VALVE, Right steer	1		701875	• KIT, Seal repair	AR
4H-24A	704821	VALVE, Left steer	1	RV1	700673	VALVE, System relief	1
4H-30A	704822	VALVE, Boom down	1	RV2 - 3	700672	VALVE, Relief (1000 PSI)	2
4H-31A	704822	VALVE, Boom up	1	RV4	708336	VALVE, Hi/low drive pilot pressure adjustment (250 PSI)	1
4H-32A	704822	VALVE, Turret rotate clockwise	1	RV5	\$	VALVE, Relief (390 PSI)	1
4H-33A	704822	VALVE, Turret rotate c-clockwise	1	RV6	\$	VALVE, Drive relief	1
4H-34A	704822	VALVE, Jib down	1	RV7	\$	VALVE, Drive relief	1
4H-35A	704822	VALVE, Jib up	1	RV8	703194	VALVE, Relief (700 PSI)	1
4H-36A	704822	VALVE, Rotate left	1	SV1	704949	VALVE, Shuttle	1
4H-37A	704822	VALVE, Rotate right	1	SV2	703197	VALVE, Shuttle	1
4H-38A	704822	VALVE, Telescope retract	1	SV3	703197	VALVE, Shuttle	1
4H-39A	704822	VALVE, Telescope extend	1	V1	103136	VALVE, Boom emergency lowering	1
4H-40A	704822	VALVE, Platform level down	1	V2	103136	VALVE, Jib emergency lowering	1
4H-41A	704822	VALVE, Platform level up	1	V3	703192	VALVE, Release override	1
AC1	700903	ACCUMULATOR, Pressure	1				
BP-1	\$	VALVE, Shuttle	1				
C1	700328	CYLINDER ASSEMBLY, Riser lift	1				
	700452	KIT, Seal repair	AR				
C2	700989	CYLINDER ASSEMBLY, Boom lift	1				
	700453	KIT, Seal repair	AR				
C3	700871	CYLINDER ASSEMBLY, Boom Telescope	1				
	700455	KIT, Seal repair	AR				
C4	700241	CYLINDER ASSEMBLY, Jib lift	1				
	700456	KIT, Seal repair	AR				
C5	700333	CYLINDER ASSEMBLY, Platform leveling master	1				
	700454	KIT, Seal repair	AR				
C6	700388	CYLINDER ASSEMBLY, Platform leveling slave	1				
	700454	KIT, Seal repair	AR				
C7	700783	CYLINDER ASSEMBLY, Steering	1				
	701076	KIT, Seal repair	AR				
CB01-09	700568	VALVE, Counter balance	9				
CB10-11	706384	VALVE, Counter balance	2				
CB12-13	700670	VALVE, Counter balance	2				
CV1	706833	VALVE, Check	1				
DCM1	706921	PUMP/MOTOR ASSEMBLY, Emergency	1				
F1	706814	FILTER, Medium pressure	1				
	708333	ELEMENT, Filter	1				
F2	704476	FILTER, High pressure	1				
	704559	ELEMENT, Filter	1				
FC1	700763	VALVE, Turret rotation speed control	1				
FC2	706026	VALVE, Needle	1				
G1	703725	GAUGE, Pressure (800 PSI)	1				

FIGURE 3-14. SYSTEM MANIFOLD COMPONENT AND PORT IDENTIFICATION

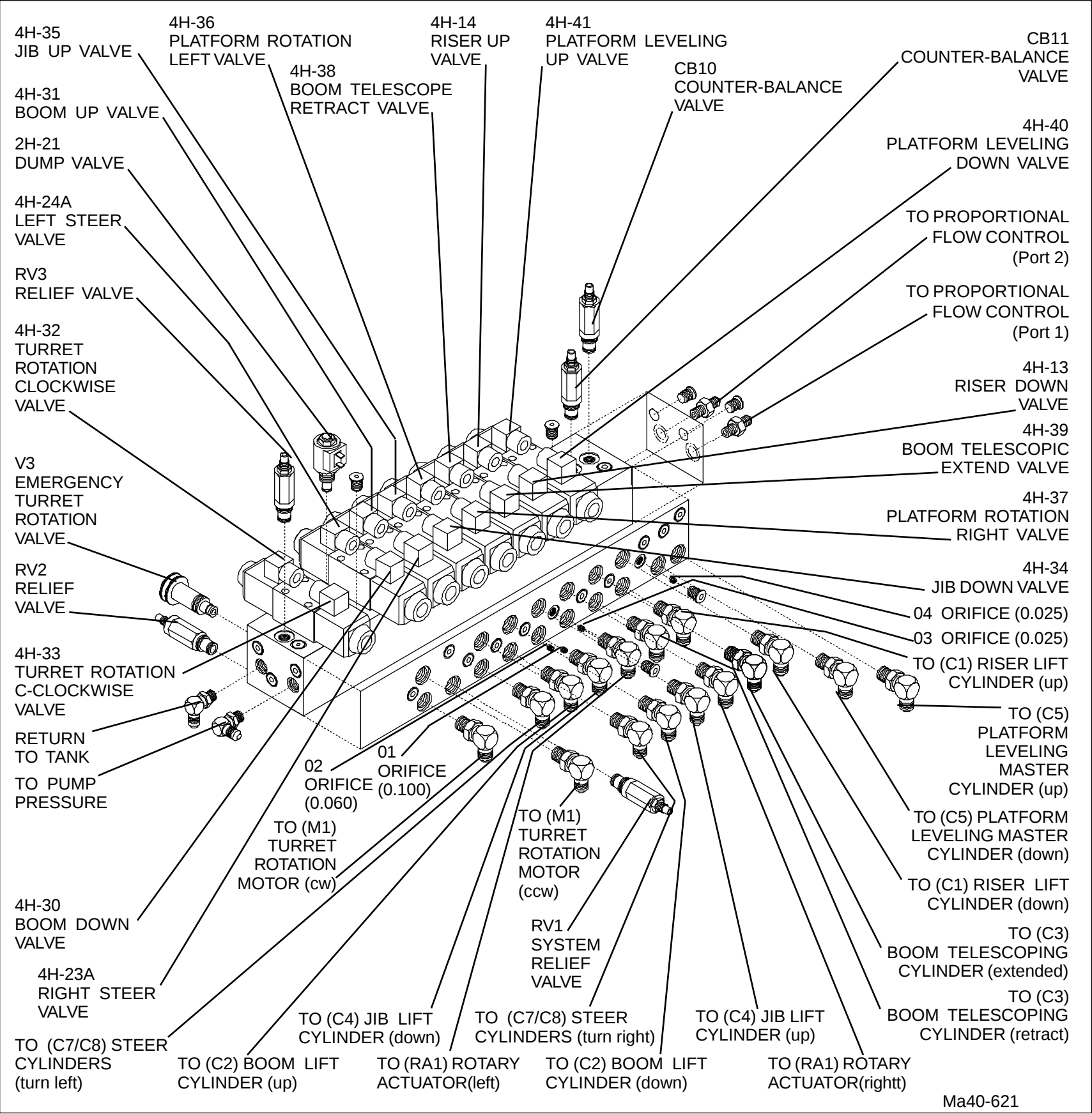
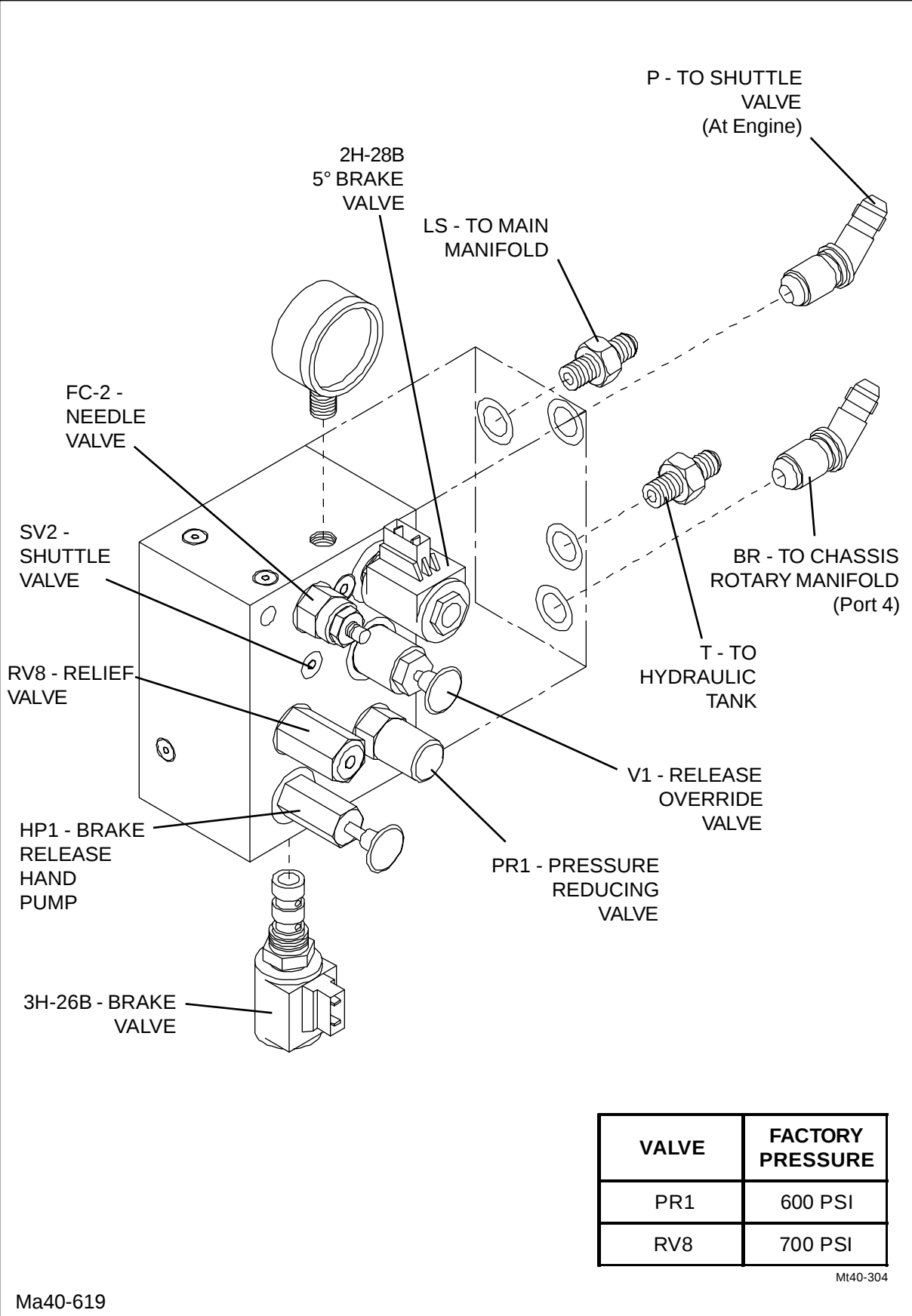


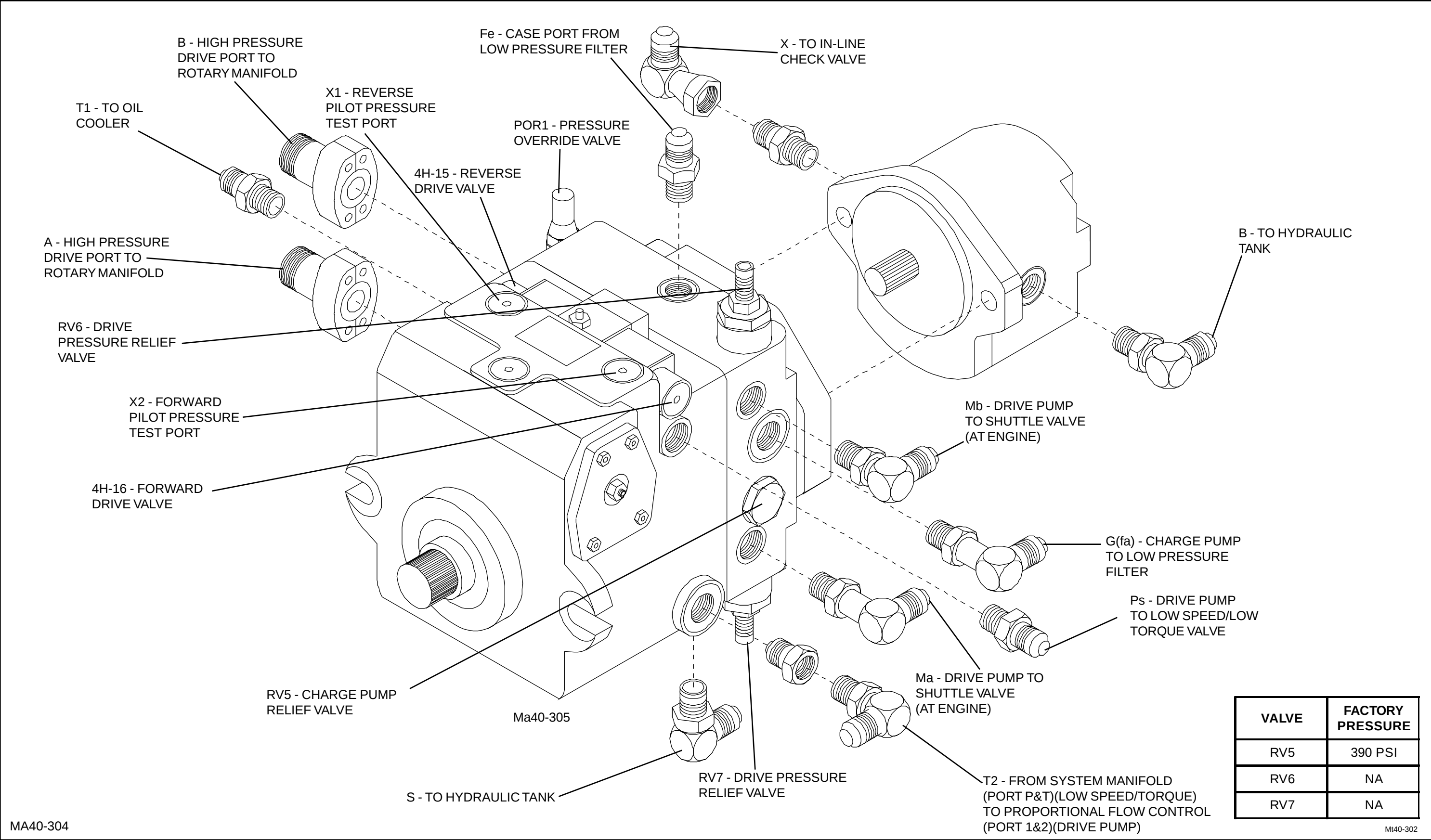
FIGURE 3-15. BRAKE MANIFOLD COMPONENT AND PORT IDENTIFICATION



VALVE	FACTORY PRESSURE
PR1	600 PSI
RV8	700 PSI

Mt40-304

FIGURE 3-16. DRIVE AND SYSTEM PUMP COMPONENT AND PORT IDENTIFICATION



MA40-304

MI40-302

NOTES

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
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ELECTRICAL SYSTEM

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

ALL CONTROLS INOPERATIVE	1.	Battery disconnected or discharged.	1.	Connect battery or charge.
	2.	Loose or broken battery cable from battery B1 to battery disconnect switch DS1.	2.	Check Continuity. Replace if defective.
	3.	Open or defective battery disconnect switch DS1.	3.	Close Switch. Replace if defective.
	4.	Loose or broken wire #03 from alternator to battery disconnect switch DS1.	4.	Check Continuity. Replace if defective.
	5.	Loose or broken wire #03 from alternator to engine terminal block TB4.	5.	Check Continuity. Replace if defective.
	6.	Loose or broken wire #03 from engine terminal block TB4 to base terminal block TB3.	6.	Check Continuity. Replace if defective.
	7.	Loose or broken wire #03 from base terminal block TB3 to circuit breaker CB1.	7.	Check Continuity. Replace if defective.
	8.	Tripped or defective circuit breaker CB1.	8.	Reset circuit breaker. Check for defective wiring. Replace if defective.
	9.	Loose or broken wire #05 from circuit breaker CB1 to base emergency stop switch S1.	9.	Check Continuity. Replace if defective.
	10.	Open or defective emergency stop switch S1.	10.	Close Switch. Replace if defective.
	11.	Loose or broken wire #07 from emergency stop switch S1 to key select switch S3.	11.	Check Continuity. Replace if defective.
	12.	Loose or broken wire #07 from base emergency stop switch S1 to relay 60ACR.	12.	Check Continuity. Replace if defective.
	13.	Defective Relay 60ACR.	13.	Check Relay. Replace if defective.
	14.	Loose or broken wire #09 from relay 60ACR to base terminal block TB3.	14.	Check Continuity. Replace if defective.
	15.	Loose or broken wire #60A from base terminal block TB3 to relay 60ACR.	15.	Check Continuity. Replace if defective.
	16.	Loose or broken wire #02 from relay 60ACR to base terminal block TB3.	16.	Check Continuity. Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
ELECTRICAL SYSTEM (Cont.)		
ENGINE WILL NOT CRANK FROM PLATFORM OR BASE	- Loose or broken wire #57A from base terminal block TB3 to relay 57ACR. - Defective relay 57ACR. - Loose or broken wire #03 from engine terminal block TB4 to relay 57ACR. - Loose or broken wire #02 from relay 57ACR to engine terminal block TB4. - Loose or broken wire 03A from relay 57ACR to starter solenoid. - Defective starter or starter solenoid.	- 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. - Refer to engine manufactures trouble shooting.
ENGINE WILL NOT CRANK FROM PLATFORM	- Foot on footswitch S11. - Loose or broken wire #04 from platform emergency stop switch S2 to platform ignition switch S6. - Defective platform ignition switch S6. - Loose or broken wire #57 from platform ignition switch S6 to platform terminal block TB1. - Loose or broken wire #57 from platform terminal block TB1 to relay 08CR1. - Defective relay 08CR1. - Loose or broken wire #57A from relay 08CR1 to platform terminal block TB2. - Loose or broken wire #57A from platform terminal block TB2 to base terminal block TB3.	- Remove foot from footswitch. - Check Continuity. Replace if defective. - Check Switch. Replace if defective. - Check Continuity. Replace if defective. - Check Continuity. Replace if defective. - Check Relay. Replace if defective. - Check Continuity. Replace if defective. - Check Continuity. Replace if defective.
ENGINE WILL NOT CRANK FROM BASE	- Defective base ignition switch S7. - Loose or broken wire #57A from base ignition switch S7 to base terminal block TB3.	- Check Switch. Replace if defective. - Check Continuity. Replace if defective.
NO POWER TO PLATFORM	- Loose or broken wire #07 from base emergency stop switch S1 to key select switch S3-3. - Defective key select switch S3-3. - Loose or broken wire 07A from key select switch S3-3 to key select switch S3-1. - Defective key select switch S3-1.	- Check Continuity. Replace if defective. - Check Switch. Replace if defective. - Check Continuity. Replace if defective. - Check Switch. Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
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ELECTRICAL SYSTEM (Cont.)

NO POWER TO PLAT-FORM (Cont.)	5. Loose or broken wire #07B from key select switch S3-1 to base terminal block TB3.	5. Check Continuity. Replace if defective.
	6. Loose or broken wire #07B from base terminal block TB3 to platform terminal block TB2.	6. Check Continuity. Replace if defective.
	7. Loose or broken wire #07B from platform terminal block TB2 to platform emergency stop switch S2.	7. Check Continuity. Replace if defective.
	8. Open or defective platform emergency stop switch S2.	8. Close Switch. Replace if defective.
ENGINE CRANKS BUT WILL NOT START	1. Loose or broken wire #60A from base terminal block TB3 to relay 60ACR.	1. Check Continuity. Replace if defective.
	2. Defective relay 60ACR.	2. Check Relay. Replace if defective.
	3. Loose or broken wire #02 from relay 60ACR to base terminal block TB3.	3. Check Continuity. Replace if defective.
	4. Loose or broken wire #09 from base terminal block TB3 to relay 01CR.	4. Check Continuity. Replace if defective.
	5. Defective relay 01CR.	5. Check Relay. Replace if defective.
	6. Loose or broken wire #54 from relay 01CR to base terminal block TB3.	6. Check Continuity. Replace if defective.
	7. Loose or broken wire #54 from base terminal block TB3 to engine terminal block TB4.	7. Check Continuity. Replace if defective.
	8. Loose or broken wire #54 from engine terminal block TB4 to oil pressure switch OPS1.	8. Check Continuity. Replace if defective.
	9. Defective oil pressure switch OPS1.	9. Check Switch. Replace if defective.
	10. Loose or broken wire #54B from oil pressure switch OPS1 to temperature switch TPS1.	10. Check Continuity. Replace if defective.
	11. Defective temperature switch TPS1.	11. Check Switch. Replace if defective.
	12. Loose or broken wire #54C from temperature switch TPS1 to vacuum switch VS1.	12. Check Continuity. Replace if defective.
	13. Defective vacuum switch VS1.	13. Check Switch. Replace if defective.
	14. Loose or broken wire #54D from vacuum switch VS1 to relay 54DCR.	14. Check Continuity. Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
ELECTRICAL SYSTEM (Cont.)		
ENGINE CRANKS BUT WILL NOT START (Cont.)	15. Defective relay 54DCR.	15. Check Relay. Replace if defective.
	16. Loose or broken wire #02 from relay 54DCR to engine terminal block TB4.	16. Check Continuity. Replace if defective.
	17. Loose or broken wire #77 from relay 54DCR to engine terminal block TB4.	17. Check Continuity. Replace if defective.
	18. Loose or broken wire #77 from engine terminal block TB4 to ignition coil.	18. Check Continuity. Replace if defective.
	19. Defective ignition coil.	19. Refer to engine manufactures troubling.
	20. Loose or broken wire #77 from engine terminal block TB4 to fuel relay 22CR.	20. Check Continuity. Replace if defective.
	21. Defective fuel relay 11CR.	21. Check Relay. Replace if defective.
ENGINE CRANKS BUT WILL NOT START FROM PLATFORM	1. Defective platform ignition switch S6.	1. Check Switch. Replace if defective.
	2. Loose or broken wire #60 from platform ignition switch S6 to platform terminal block TB1.	2. Check Continuity. Replace if defective.
	3. Open diode D60-1 at platform terminal block TB1.	3. Check Diode. Replace if defective.
	4. Loose or broken wire #60A from platform terminal block TB2.	4. Check Continuity. Replace if defective.
	5. Loose or broken wire 60A from platform terminal block TB2 to base terminal block TB3.	5. Check Continuity. Replace if defective.
ENGINE STARTS BUT WILL NOT KEEP RUNNING	1. Engine oil level low.	1. Check oil level. Refill to proper level.
	2. Engine overheated.	2. Check radiator coolant level. Refill if low.. Check for radiator obstruction.
CONTROLS INOPERATIVE FROM PLATFORM	1. Loose or broken wire #04 from platform terminal block TB1 to footswitch S11.	1. Check Continuity. Replace if defective.
	2. Defective footswitch S11.	2. Check Switch. Replace if defective.
	3. Loose or broken wire #08 from footswitch S11 to platform terminal block TB1.	3. Check Continuity. Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
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ELECTRICAL SYSTEM (Cont.)

NO BOOM OR STEER FUNCTIONS FROM PLATFORM OR BASE	1.	Loose or broken wire #09 from base terminal block TB3 to relay 20CR.	1.	Check Continuity. Replace if defective.
	2.	Defective relay 20CR.	2.	Check Relay. Replace if defective.
	3.	Loose or broken wire #02 from relay 20CR to base terminal block TB3.	3.	Check Continuity. Replace if defective.
	4.	Loose or broken wire #20 from base terminal block TB3 to relay 20CR.	4.	Check Continuity. Replace if defective.
	5.	Loose or broken wire #20A from relay 20CR to base terminal block TB3.	5.	Check Continuity. Replace if defective.
	6.	Loose or broken jumper wire 20A on base terminal block TB3.	6.	Check Continuity. Replace if defective.
	7.	Open diode D20A.	7.	Check Diode. Replace if defective.
	8.	Loose or broken wire #21 from base terminal block TB3 to dump valve relay 21CR1.	8.	Check Continuity. Replace if defective.
	9.	Defective dump valve relay 21CR1.	9.	Check Relay. Replace if defective.
	10.	Loose or broken wire #02 from dump valve relay 21CR1 to dump valve coil 2H-21A.	10.	Check Continuity. Replace if defective.
	11.	Defective dump valve coil 2H-21A.	11.	Check Continuity through coil. Replace if defective.
	12.	Loose or broken wire #02 from dump valve coil 2H-21A to base terminal block TB3.	12.	Check Continuity. Replace if defective.
	13.	Loose or broken wire #09 from base terminal block TB3 to dump valve relay 21CR1.	13.	Check Continuity. Replace if defective.
	14.	Loose or broken wire #12 from base terminal block TB3 to proportional valve coil 2H-12.	14.	Check Continuity. Replace if defective.
	15.	Defective proportional valve coil 2H-12.	15.	Check Continuity. Replace if defective.
	16.	Loose or broken wire #02 from proportional valve coil 2H-12 to base terminal block TB3.	16.	Check Continuity. Replace if defective.
NO BOOM FUNCTIONS FROM PLATFORM	1.	Loose or broken wire #09 from platform terminal block to boom function control board BFC1.	1.	Check Continuity. Replace if defective.
	2.	Loose or broken wire #02 from platform terminal block TB1 to boom function control board BFC1.	2.	Check Continuity. Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
ELECTRICAL SYSTEM (Cont.)		
NO BOOM FUNCTIONS FROM PLATFORM (Cont.)	- Defective boom function control board BFC1. - Loose or broken wire #12 from boom function control board BFC1 to platform terminal block TB2. - Loose or broken wire #12 from platform terminal block TB2 to base terminal block TB3. - Loose or broken wire #12 from base terminal block TB3 to proportional valve coil 2H-12. - Defective proportional valve coil 2H-12. - Loose or broken wire #02 from proportional valve coil 2H-12 to base terminal block TB3.	- Refer to section 5 "boom function control board diagnostics". - Check Continuity. Replace if defective. - Check Continuity. Replace if defective. - Check Continuity. Replace if defective. - Check Continuity through coil. Replace if defective. - Check Continuity. Replace if defective.
MAIN BOOM DOWN, RISER BOOM DOWN, TELESCOPE RETRACT, JIB BOOM DOWN AND PLATFORM LEVELING DOWN FUNCTIONS ONLY INOPERATIVE.	Open diode D58.	Check diode. Replace if defective.
MAIN BOOM UP, RISER BOOM UP, TELESCOPE EXTEND, JIB BOOM UP AND PLATFORM LEVELING UP FUNCTIONS ONLY INOPERATIVE	- Machine not level. - Loose or broken wire #09 from base terminal block TB3 to tilt switch fuse F1. - Blown tilt switch fuse F1. - Loose or broken wire #02 from base terminal block TB3 to tilt switch TS1. - Defective tilt switch TS1. - Loose or broken wire #28 from tilt switch TS1 to base terminal block TB3. - Loose or broken wire #28 from base terminal block TB3 to platform terminal block TB2. - Loose or broken wire #28 from platform terminal block TB2 to relay 28CR. - Loose or broken wire #02 from relay 28CR to platform terminal block TB1. - Defective relay 28CR.	- Move machine to a firm level surface. - Check Continuity. Replace if defective. - Replace fuse. Check for shorted wiring. - Check Continuity. Replace if defective. - Check Switch. Replace if defective. - Check Continuity. Replace if defective. - Check Continuity. Replace if defective. - Check Continuity. Replace if defective. - Check Continuity. Replace if defective. - Check Relay. Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
ELECTRICAL SYSTEM (Cont.)		
MAIN BOOM UP, RISER BOOM UP, TELESCOPE EXTEND, JIB BOOM UP AND PLATFORM LEVELING UP FUNCTIONS ONLY INOPERATIVE (Cont.)	- Loose or broken wire #08 from platform terminal block TB1 to relay 28CR. - Loose or broken wire #99 from relay 28CR to platform terminal block TB1.	- Check Continuity. Replace if defective. - Check Continuity. Replace if defective.
NO RISER BOOM DOWN FROM PLATFORM OR BASE	- Loose or broken wire #13 from base terminal block TB3 to relay 13CR. - Loose or broken wire #02 from relay 13CR to base terminal block TB3. - Defective relay 13CR. - Loose or broken wire #09 from base terminal block TB3 to relay 13CR. - Loose or broken wire #13A from relay 13CR to riser down valve coil 4H-13A. - Defective riser down valve coil 4H-13A. - Loose or broken wire #02 from riser down valve coil 4H-13A to base terminal block TB3. - Open diode D13.	- Check Continuity. 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 through coil. Replace if defective. - Check Continuity. Replace if defective. - Check Diode. Replace if defective.
NO RISER BOOM UP FROM PLATFORM OR BASE	- Loose or broken wire #14 from base terminal block TB3 to relay 14CR. - Loose or broken wire #02 from relay 14CR to base terminal block TB3. - Defective relay 14CR. - Loose or broken wire #09 from base terminal block TB3 to relay 14CR. - Loose or broken wire #14A from relay 14CR to riser up valve coil 4H-14A. - Defective riser up valve. - Loose or broken wire #02 from riser up valve coil 4H-14A to base terminal block TB3. - Open diode D14.	- Check Continuity. 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 through coil. Replace if defective. - Check Continuity. Replace if defective. - Check Diode. Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
ELECTRICAL SYSTEM (Cont.)		
NO RISER BOOM UP FROM PLATFORM	- Loose or broken wire #99 from platform terminal block TB1 to riser up/down switch S15. - Defective riser up/down switch S15. - Loose or broken wire #14 from riser up/down switch S15 to platform terminal block TB2. - Loose or broken wire #14 from platform terminal block to base terminal block TB3.	- Check Continuity. Replace if defective. - Check Switch. Replace if defective. - Check Continuity. Replace if defective. - Check Continuity. Replace if defective.
NO RISER BOOM DOWN FROM PLATFORM	- Loose or broken wire #08 from platform terminal block TB1 to riser up/down switch S15. - Defective riser up/down switch S15. - Loose or broken wire #13 from riser up/down switch S15 to platform terminal block TB2. - Loose or broken wire #13 from platform terminal; block TB2 to base terminal block TB3.	- Check Continuity. Replace if defective. - Check Switch. Replace if defective. - Check Continuity. Replace if defective. - Check Continuity. Replace if defective.
NO MAIN BOOM DOWN FROM PLATFORM OR BASE CONTROLS	- Loose or broken wire #30 from base terminal block TB3 to relay 30CR. - Loose or broken wire #02 from relay 30CR to base terminal block TB3. - Defective relay 30CR. - Loose or broken wire #09 from base terminal block TB3 to relay 30CR. - Loose or broken wire #30A from relay 30CR to main boom down valve coil 4H-30A. - Defective main boom down coil 4H-30A. - Loose or broken wire #02 from main boom down valve coil 4H-30A to base terminal block TB3. - Open diode D30-1.	- Check Continuity. 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 through coil. Replace if defective. - Check Continuity. Replace if defective. - Check Diode. Replace if defective.
NO MAIN BOOM UP FROM PLATFORM OR BASE CONTROLS	- Loose or broken wire #31 from base terminal block TB3 to relay 31CR. - Loose or broken wire #02 from relay 31CR to base terminal block TB3. - Defective relay 31CR. - Loose or broken wire #09 from base terminal block TB3 to relay 31CR. - Loose or broken wire #31A from relay 31CR to main boom up valve coil 4H-31A.	- Check Continuity. Replace if defective. - Check Continuity. Replace if defective. - Check Relay. Replace if defective. - Check Continuity. Replace if defective. - Check Continuity. Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
ELECTRICAL SYSTEM (Cont.)		
NO MAIN BOOM UP FROM PLATFORM OR BASE CONTROLS (Cont.)	6. Defective main boom up valve coil 4H-31A. 7. Loose or broken wire #02 from main boom up valve coil 4H-31A to base terminal block TB3. 8. Open diode D31-1.	6. Check Continuity through coil. Replace if defective. 7. Check Continuity. Replace if defective. 8. Check Diode. Replace if defective.
NO MAIN BOOM UP FROM PLATFORM CONTROLS	1. Loose or broken wire #99 from platform terminal block TB1 to main boom up/down switch S14. 2. Defective main boom up/down switch S14. 3. Loose or broken wire #31 from main boom up/down switch S14 to platform terminal block TB2. 4. Loose or broken wire #31 from platform terminal block TB2 to base terminal block TB3.	1. Check Continuity. Replace if defective. 2. Check Switch. Replace if defective. 3. Check Continuity. Replace if defective. 4. Check Continuity. Replace if defective.
NO MAIN BOOM DOWN FROM PLATFORM CONTROLS	1. Loose or broken wire #08 from platform terminal block TB1 to main boom up/down switch S14. 2. Defective main boom up/down switch S14. 3. Loose or broken wire #30 from main boom up/down switch to platform terminal block TB1. 4. Loose or broken wire #30 from platform terminal block TB2 to base terminal block TB3.	1. Check Continuity. Replace if defective. 2. Check Switch. Replace if defective. 3. Check Continuity. Replace if defective. 4. Check Continuity. Replace if defective.
NO TURRET ROTATE LEFT FROM PLATFORM OR BASE CONTROLS	1. Loose or broken wire #32 from base terminal block TB3 to relay 32CR. 2. Loose or broken wire #02 from relay 32CR to base terminal block TB3. 3. Defective relay 32CR. 4. Loose or broken wire #09 from base terminal strip TB3 to relay 32CR. 5. Loose or broken wire #32A from relay 32CR to turret rotate left valve coil 4H-32A. 6. Defective turret rotate left valve coil 4H-32A. 7. Loose or broken wire #02 from turret rotate left valve coil 4H-32A to base terminal block TB3. 8. Open diode D32.	1. Check Continuity. Replace if defective. 2. Check Continuity. Replace if defective. 3. Check Relay. Replace if defective. 4. Check Continuity. Replace if defective. 5. Check Continuity. Replace if defective. 6. Check Continuity through coil. Replace if defective. 7. Check Continuity. Replace if defective. 8. Check Diode. Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
ELECTRICAL SYSTEM (Cont.)		
NO TURRET ROTATE RIGHT FROM PLATFORM OR BASE CONTROLS	- Loose or broken wire #33 from base terminal block TB3 to relay 33CR. - Loose or broken wire #02 from relay 33CR to base terminal block TB3. - Defective relay 33CR. - Loose or broken wire #09 from base terminal block TB3 to relay 33CR. - Loose or broken wire 33A from relay 33CR to turret rotate right valve coil 4H-33A. - Defective turret rotate right valve coil 4H-33A. - Loose or broken wire #02 from turret rotate right valve 4H-33A to base terminal block TB3. - Open diode D33.	- Check Continuity. 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 through coil. Replace if defective. - Check Continuity. Replace if defective. - Check Diode. Replace if defective.
NO TURRET ROTATE RIGHT OR LEFT FROM PLATFORM CONTROLS	- Loose or broken wire #08 from platform terminal block TB1 to turret rotate switch S20. - Defective turret rotate switch S20.	- Check Continuity. Replace if defective. - Check Switch. Replace if defective.
NO TURRET ROTATE LEFT FROM PLATFORM CONTROLS	- Defective turret rotate switch S20. - Loose or broken wire #32 from turret rotate switch S20 to platform terminal block TB2. - Loose or broken wire #32 from platform terminal block TB2 to base terminal block TB3.	- Check Switch. Replace if defective. - Check Continuity. Replace if defective. - Check Continuity. Replace if defective.
NO TURRET ROTATE RIGHT FROM PLATFORM CONTROLS	- Defective turret rotate switch S20. - Loose or broken wire #33 from turret rotate switch S20 to platform terminal block TB2. - Loose or broken wire #33 from platform terminal block TB2 to base terminal block TB3.	- Check Switch. Replace if defective. - Check Continuity. Replace if defective. - Check Continuity. Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
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ELECTRICAL SYSTEM (Cont.)

NO TELESCOPE RE-TRACT FROM PLAT-FORM OR BASE CON-TROLS	1.	Loose or broken wire #38 from base terminal block TB3 to relay 38CR.	1.	Check Continuity. Replace if defective.
	2.	Loose or broken wire #02 from relay 38CR to base terminal block TB3.	2.	Check Continuity. Replace if defective.
	3.	Defective relay 38CR.	3.	Check Relay. Replace if defective.
	4.	Loose or broken wire #09 from base terminal block TB3 to relay 38CR.	4.	Check Continuity. Replace if defective.
	5.	Loose or broken wire 38A from relay 38CR to telescope retract valve coil 4H-38A.	5.	Check Continuity. Replace if defective.
	6.	Defective telescope retract valve coil 4H-38A.	6.	Check Continuity through coil. Replace if defective.
	7.	Loose or broken wire #02 from telescope retract valve coil 4H-38A to base terminal block TB3.	7.	Check Continuity. Replace if defective.
	8.	Open diode D38.	8.	Check Diode. Replace if defective.
NO TELESCOPE EX-TEND FROM PLATFORM OR BASE CONTROLS	1.	Loose or broken wire #39 from base terminal block TB3 to relay 39CR.	1.	Check Continuity. Replace if defective.
	2.	Loose or broken wire #02 from relay 39CR to base terminal block TB3.	2.	Check Continuity. Replace if defective.
	3.	Defective relay 39CR.	3.	Check Relay. Replace if defective.
	4.	Loose or broken wire #09 from base terminal block TB3 to relay 39CR.	4.	Check Continuity. Replace if defective.
	5.	Loose or broken wire 39A from relay 39CR to telescope retract valve coil 4H-39A.	5.	Check Continuity. Replace if defective.
	6.	Defective telescope retract valve coil 4H-39A.	6.	Check Continuity through coil. Replace if defective.
	7.	Loose or broken wire #02 from telescope retract valve coil 4H-39A to base terminal block TB3.	7.	Check Continuity. Replace if defective.
	8.	Open diode D39.	8.	Check Diode. Replace if defective.
NO TELESCOPE RE-TRACT FROM PLAT-FORM CONTROLS	1.	Loose or broken wire #08 from platform terminal block TB1 to telescope switch S16.	1.	Check Continuity. Replace if defective.
	2.	Defective telescope switch S16.	2.	Check Switch. Replace if defective.
	3.	Loose or broken wire #38 from telescope switch S16 to platform terminal block TB2.	3.	Check Continuity. Replace if defective.
	4.	Loose or broken wire #38 from platform terminal block TB2 to base terminal block TB3.	4.	Check Continuity. Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
ELECTRICAL SYSTEM (Cont.)		
NO TELESCOPE EXTEND FROM PLATFORM CONTROLS	- Loose or broken wire #99 from platform terminal block TB1 to telescope switch S16. - Defective telescope switch S16. - Loose or broken wire #39 from telescope switch S16 to platform terminal block TB2. - Loose or broken wire #39 from platform terminal block TB2 to base terminal block TB3.	- Check Continuity. Replace if defective. - Check Switch. Replace if defective. - Check Continuity. Replace if defective. - Check Continuity. Replace if defective.
NO JIB DOWN FROM PLATFORM AND BASE CONTROLS	- Loose or broken wire #34 from base terminal block TB3 to relay 34CR. - Loose or broken wire #02 from relay 34CR to base terminal block TB3. - Defective relay 34CR. - Loose or broken wire #09 from base terminal block TB3 to relay 34CR. - Loose or broken wire #34A from relay 34CR to jib down valve coil 4H-34A. - Defective jib down valve coil 4H-34A. - Loose or broken wire #02 from jib down valve 4H-34A to base terminal block TB3. - Open diode D34.	- Check Continuity. 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 through coil. Replace if defective. - Check Continuity. Replace if defective. - Check Diode. Replace if defective.
NO JIB UP FROM PLATFORM AND BASE CONTROLS	- Loose or broken wire #35 from base terminal block TB3 to relay 35CR. - Loose or broken wire #02 from relay 35CR to base terminal block TB3. - Defective relay 35CR. - Loose or broken wire #09 from base terminal block TB3 to relay 35CR. - Loose or broken wire #35A from relay 35CR to jib down valve coil 4H-35A. - Defective jib down valve coil 4H-35A. - Loose or broken wire #02 from jib down valve 4H-35A to base terminal block TB3. - Open diode D35.	- Check Continuity. 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 through coil. Replace if defective. - Check Continuity. Replace if defective. - Check Diode. Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
ELECTRICAL SYSTEM (Cont.)		
NO JIB UP OR DOWN FROM PLATFORM CONTROLS	- Loose or broken wire #08 from platform terminal block TB3 to jib up/down switch S18. - Defective jib up/down switch S18.	- Check Continuity. Replace if defective. - Check Switch. Replace if defective.
NO JIB DOWN FROM PLATFORM CONTROLS	- Defective jib up/down switch S18. - Loose or broken wire #34 from jib up/down switch S18 to platform terminal block TB2. - Loose or broken wire #34 from platform terminal block TB2 to base terminal block TB3.	- Check Switch. Replace if defective. - Check Continuity. Replace if defective. - Check Continuity. Replace if defective.
NO JIB UP FROM PLATFORM CONTROLS	- Defective jib up/down switch S18. - Loose or broken wire #35 from jib up/down switch S18 to platform terminal block TB2. - Loose or broken wire #35 from platform terminal block TB2 to base terminal block TB3.	- Check Switch. Replace if defective. - Check Continuity. Replace if defective. - Check Continuity. Replace if defective.
NO PLATFORM ROTATE LEFT FROM PLATFORM OR BASE CONTROLS	- Loose or broken wire #36 from base terminal block TB3 to relay 36CR. - Loose or broken wire #02 from relay 36CR to base terminal block TB3. - Defective relay 36CR. - Loose or broken wire #09 from base terminal block TB3 to relay 36CR. - Loose or broken wire #36A from relay 36CR to platform rotate left valve coil 4H-36A. - Defective platform rotate left valve coil 4H-36A. - Loose or broken wire #02 from platform rotate left valve coil 4H-36A to base terminal block TB3. - Open diode D36.	- Check Continuity. 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 through coil. Replace if defective. - Check Continuity. Replace if defective. - Check Diode. Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
ELECTRICAL SYSTEM (Cont.)		
NO PLATFORM ROTATE RIGHT FROM PLATFORM OR BASE CONTROLS	- Loose or broken wire #37 from base terminal block TB3 to relay 37CR. - Loose or broken wire #02 from relay 37CR to base terminal block TB3. - Defective relay 37CR. - Loose or broken wire #09 from base terminal block TB3 to relay 37CR. - Loose or broken wire #37A from relay 37CR to platform rotate left valve coil 4H-37A. - Defective platform rotate left valve coil 4H-37A. - Loose or broken wire #02 from platform rotate right valve coil 4H-36A to base terminal block TB3. - Open diode D37.	- Check Continuity. 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 through coil. Replace if defective. - Check Continuity. Replace if defective. - Check Diode. Replace if defective.
NO PLATFORM ROTATE LEFT OR RIGHT FROM PLATFORM CONTROLS	- Loose or broken wire #08 from platform terminal block TB1 to platform rotate switch S19. - Defective platform rotate switch S19.	- Check Continuity. Replace if defective. - Check Switch. Replace if defective.
NO PLATFORM ROTATE LEFT FROM PLATFORM CONTROLS	- Defective platform rotate switch S19. - Loose or broken wire #36 from platform rotate switch S19 to platform terminal block TB2. - Loose or broken wire #36 from platform terminal block TB2 to base terminal block TB3.	- Check Switch. Replace if defective. - Check Continuity. Replace if defective. - Check Continuity. Replace if defective.
NO PLATFORM ROTATE RIGHT FROM PLATFORM CONTROLS	- Defective platform rotate switch S19. - Loose or broken wire #37 from platform rotate switch S19 to platform terminal block TB2. - Loose or broken wire #37 from platform terminal block TB2 to base terminal block TB3.	- Check Switch. Replace if defective. - Check Continuity. Replace if defective. - Check Continuity. Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
ELECTRICAL SYSTEM (Cont.)		
PLATFORM WILL NOT LEVEL DOWN FROM PLATFORM AND BASE CONTROLS	- Loose or broken wire #40 from base terminal block TB3 to relay 40CR. - Loose or broken wire #02 from relay 40CR to base terminal block TB3. - Defective relay 40CR. - Loose or broken wire #09 from base terminal block TB3 to relay 40CR. - Loose or broken wire #40A from relay 40CR to platform level down valve coil 4H-40A. - Defective level down valve coil 4H-40A. - Loose or broken wire #02 from platform level down valve coil 4H-40A to base terminal block TB3. - Open diode D40.	- Check Continuity. 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 through coil. Replace if defective. - Check Continuity. Replace if defective. - Check Diode. Replace if defective.
PLATFORM WILL NOT LEVEL UP FROM PLATFORM AND BASE CONTROLS	- Loose or broken wire #41 from base terminal block TB3 to relay 41CR. - Loose or broken wire #02 from relay 41CR to base terminal block TB3. - Defective relay 401R. - Loose or broken wire #09 from base terminal block TB3 to relay 41CR. - Loose or broken wire #41A from relay 41CR to platform level up valve coil 4H-40A. - Defective level up valve coil 4H-41A. - Loose or broken wire #02 from platform level up valve coil 4H-41A to base terminal block TB3. - Open diode D41.	- Check Continuity. 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 through coil. Replace if defective. - Check Continuity. Replace if defective. - Check Diode. Replace if defective.
PLATFORM WILL NOT LEVEL UP OR DOWN FROM PLATFORM CONTROLS	- Loose or broken wire #08 from platform terminal block TB1 to relay 30BCR. - Defective relay 30BCR. - Loose or broken wire #08A from relay 30BCR to platform level switch S17.	- Check Continuity. Replace if defective. - Check relay. Replace if defective. - Check Continuity. Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
ELECTRICAL SYSTEM (Cont.)		
PLATFORM WILL NOT LEVEL DOWN FROM PLATFORM CONTROLS	1. Defective platform level switch S17 2. Loose or broken wire #40 from platform level switch S17 to platform terminal block TB2. 3. Loose or broken wire #40 from platform terminal block TB2 to base terminal block TB3.	1. Check Switch. Replace if defective. 2. Check Continuity. Replace if defective. 3. Check Continuity. Replace if defective.
PLATFORM WILL NOT LEVEL UP FROM PLATFORM CONTROLS	1. Defective platform level switch S17 2. Loose or broken wire #41 from platform level switch S17 to platform terminal block TB2. 3. Loose or broken wire #41 from platform terminal block TB2 to base terminal block TB3.	1. Check Switch. 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 tests.	1. Loose or broken wire #08 from platform terminal block TB1 to relay 08CR2. 2. Loose or broken wire #02 from relay 08CR2 to platform terminal block TB1. 3. Defective relay 08CR2. 4. Loose or broken wire #62 from EDA board EDA1 to relay 51CR. 5. Loose or broken wire #51 from base terminal block TB3 to relay 51CR. 6. Loose or broken wire #02 from relay 51CR to base terminal block TB3. 7. Defective relay 51CR. 8. Loose or broken wire #62A from relay 51CR to relay 17CR4. 9. Defective relay 17CR4. 10. Loose or broken wire #62B from relay 17CR4 to base terminal block TB3. 11. Loose or broken wire #62B from base terminal block TB3 to platform terminal block TB2. 12. Loose or broken wire #62B from platform terminal block TB2 to relay 08CR2.	1. Check Continuity. Replace if defective. 2. Check Continuity. Replace if defective. 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 Relay. Replace if defective. 8. Check Continuity. Replace if defective. 9. Check Relay. Replace if defective. 10. Check Continuity. Replace if defective. 11. Check Continuity. Replace if defective. 12. Check Continuity. Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
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ELECTRICAL SYSTEM (Cont.)

UNIT WILL NOT DRIVE (Cont.) NOTE: Platform must be over non steering axle for these tests.	13.	Loose or broken wire #62C from relay 08CR2 to platform terminal block TB1.	13.	Check Continuity. Replace if defective.
	14.	Loose or broken wire #62C from platform terminal block TB1 to drive potentiometer R2.	14.	Check Continuity. Replace if defective.
	15.	Loose or broken wire #02 from base terminal block TB3 to relay 17CR3.	15.	Check Continuity. Replace if defective.
	16.	Defective relay 17CR3.	16.	Check Relay. Replace if defective.
	17.	Loose or broken wire #61 from relay 17CR3 to base terminal block TB3.	17.	Check Continuity. Replace if defective.
	18.	Loose or broken wire #61 from base terminal block TB3 to platform terminal block TB2.	18.	Check Continuity. Replace if defective.
	19.	Loose or broken wire #61 from platform terminal block TB2 to drive potentiometer R2.	19.	Check Continuity. Replace if defective.
	20.	Loose or broken wire #63 from drive potentiometer to platform terminal block TB2.	20.	Check Continuity. Replace if defective.
	21.	Loose or broken wire #63 from platform terminal block TB2 to base terminal block TB3.	21.	Check Continuity. Replace if defective.
	22.	Loose or broken wire #63 from base terminal block TB3 to terminal #11 on MDSD board MDSD1.	22.	Check Continuity. Replace if defective.
	23.	Loose or broken wire #64 from drive potentiometer R2 to platform terminal block TB2.	23.	Check Continuity. Replace if defective.
	24.	Loose or broken wire #64 from platform terminal block TB2 to base terminal block TB3.	24.	Check Continuity. Replace if defective.
	25.	Loose or broken wire #64 from base terminal block TB3 to terminal #10 on MDSD board MDSD1.	25.	Check Continuity. Replace if defective.
	26.	Defective drive potentiometer R2.	26.	Check Potentiometer. Replace if defective.
	27.	Loose or broken wire #09 from base terminal block TB3 to EDA board EDA1.	27.	Check Continuity. Replace if defective.
	28.	Blown EDA board fuse F2.	28.	Check Fuse. Check for shorted wiring.
	29.	Loose or broken wire #02 from base terminal block TB3 to EDA board EDA1.	29.	Check Continuity. Replace if defective.
	30.	Loose or broken wire #98 from terminal #10 on EDA board EDA1 to base terminal block TB3.	30.	Check Continuity. Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
ELECTRICAL SYSTEM (Cont.)		
UNIT WILL NOT DRIVE (Cont.) NOTE: Platform must be over non steering axle for these tests.	31. Loose or broken wire #98 from base terminal block TB3 to tachometer pickup TP1. 32. Defective tachometer pickup TP1. 33. Loose or broken wire #98A from tachometer pickup TP1 to base terminal block TB3. 34. Loose or broken wire #98A from base terminal block TB3 to terminal #9 on EDA board EDA1. 35. Defective EDA board EDA1. 36. Loose or broken wire #09 from EDA board EDA1 to MDSD board MDSD1. 37. Loose or broken wire #02 from EDA board EDA1 to MDSD board MDSD1. 38. Blown MDSD board fuse F3. 39. Defective MDSD board MDSD1.	31. Check Continuity. Replace if defective. 32. Refer to section 5, tachometer pickup testing procedure. 33. Check Continuity. Replace if defective. 34. Check Continuity. Replace if defective. 35. Refer to section 5, EDA board troubleshooting. 36. Check Continuity. Replace if defective. 37. Check Continuity. Replace if defective. 38. Replace fuse. Check for shorted wiring. 39. Refer to section 5, MDSD board troubleshooting.
NO DRIVE REVERSE	1. Loose or broken wire #15 from terminal #5 on MDSD board MDSD1 to base terminal block TB3. 2. Loose or broken wire #15 from base terminal block TB3 to drive reverse valve coil 4H-15. 3. Defective drive reverse valve coil 4H-15. 4. Loose or broken wire #02 from drive reverse valve coil 4H-15 to the drive pump case. 5. Defective MDSD board MDSD1.	1. Check Continuity. Replace if defective. 2. Check Continuity. Replace if defective. 3. Check Continuity through coil. Replace if defective. 4. Check Continuity. Replace if defective. 5. Refer to section 5, MDSD board troubleshooting.
NO DRIVE FORWARD	1. Loose or broken wire #16 from terminal #3 on MDSD board MDSD1 to base terminal block TB3. 2. Loose or broken wire #16 from base terminal block TB3 to drive forward valve coil 4H-16. 3. Defective drive forward valve coil 4H-16. 4. Loose or broken wire #02 from drive forward valve coil 4H-16 to the drive pump case. 5. Defective MDSD board MDSD1.	1. Check Continuity. Replace if defective. 2. Check Continuity. Replace if defective. 3. Check Continuity through coil. Replace if defective. 4. Check Continuity. Replace if defective. 5. Refer to section 5, MDSD board troubleshooting.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
ELECTRICAL SYSTEM (Cont.)		
NO HIGH DRIVE	- Loose or broken wire #09 from base terminal block TB3 to riser limit switch LS1. - Defective riser limit switch LS1. - Loose or broken wire #06 from riser limit switch LS1 to base terminal block TB3. - Loose or broken wire #06 from base terminal block TB3 to telescope limit switch LS2. - Defective telescope limit switch LS2. - Loose or broken wire #59 from telescope limit switch LS2 to base terminal block TB3. - Loose or broken wire #59 from base terminal block TB3 to terminal #5 on EDA board EDA1. - Loose or broken wire #59 from base terminal block TB3 to high torque valve coil 2H-59. - Defective high torque valve coil 2H-59. - Loose or broken wire #02 from high torque valve coil 2H-59 to engine terminal block TB4.	- Check Continuity. Replace if defective. - Check Switch. Replace if defective. - Check Continuity. Replace if defective. - Check Continuity. Replace if defective. - Check Switch. Replace if defective. - Check Continuity. Replace if defective. - Check Continuity. Replace if defective. - Check Continuity. Replace if defective. - Check Continuity through coil. Replace if defective. - Check Continuity. Replace if defective.
NO DRIVE ELEVATED OR TELESOPED OUT.	- EDA board out of adjustment. - MDSD board MDSD1 out of adjustment.	- Refer to section 5, "EDA board adjustment procedure". - Refer to section 5, "MDSD board adjustment procedure".
NO STEER RIGHT OR LEFT	- Loose or broken wire #08 from platform terminal block TB1 to drive/steer controller S12. - Loose or broken wire #114 from base terminal block TB3 to relay 114CR. - Loose or broken wire #02 from relay 114CR to base terminal block TB3. - Defective relay 114CR. - Loose or broken wire #09 from base terminal block TB3 to relay 114CR. - Open diode D114A-1. - Open diode D114A-2.	- Check Continuity. Replace if defective. - Check Continuity. Replace if defective. - Check Continuity. Replace if defective. - Check Relay. Replace if defective. - Check Continuity. Replace if defective. - Check Diode. Replace if defective. - Check Diode. Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
ELECTRICAL SYSTEM (Cont.)		
NO STEER LEFT	1. Defective left steer switch S12-3. 2. Loose or broken wire #24 from drive/steer controller S12 to platform terminal block TB2. 3. Loose or broken wire #24 from Platform terminal block TB2 to base terminal block TB3. 4. Loose or broken wire #24 from base terminal block TB3 to relay 17CR1. 5. Defective relay 17CR1. 6. Loose or broken wire #24A from relay 17CR1 to base terminal block TB3. 7. Loose or broken wire #24A from base terminal block TB3 to steer left valve coil 4H-24A. 8. Defective steer left valve coil 4H-24A. 9. Loose or broken wire #02 from steer left valve coil 4H-24A to base terminal block TB3. 10. Open diode D24.	1. Check switch. Replace if defective. 2. Check Continuity. 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. Check Continuity. Replace if defective. 8. Check Continuity through coil. Replace if defective. 9. Check Continuity. Replace if defective. 10. Check Diode. Replace if defective.
NO STEER RIGHT	1. Defective right steer switch S12-2. 2. Loose or broken wire #23 from drive/steer controller S12 to platform terminal block TB2. 3. Loose or broken wire #23 from Platform terminal block TB2 to base terminal block TB3. 4. Loose or broken wire #23 from base terminal block TB3 to relay 17CR2. 5. Defective relay 17CR2. 6. Loose or broken wire #23A from relay 17CR2 to base terminal block TB3. 7. Loose or broken wire #23A from base terminal block TB3 to steer right valve coil 4H-23A. 8. Defective steer right valve coil 4H-23A. 9. Loose or broken wire #02 from steer right valve coil 4H-24A to base terminal block TB3. 10. Open diode D23.	1. Check switch. Replace if defective. 2. Check Continuity. 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. Check Continuity. Replace if defective. 8. Check Continuity through coil. Replace if defective. 9. Check Continuity. Replace if defective. 10. Check Diode. Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
ELECTRICAL SYSTEM (Cont.)		
DRIVE AND STEER WILL NOT CHANGE DIRECTIONS	- Loose or broken wire #09 from base terminal block TB3 to directional sensing switch S28. - Defective directional sensing switch S28. - Loose or broken wire #17 from directional sensing switch S28 to base terminal block TB3. - Loose or broken wire #17 from base terminal block TB3 to steer relays 17CR1 and 17CR2, drive relays 17CR3 and 17CR4. - Defective steer relays 17CR1 and 17CR2 or drive relays 17CR3 and 17CR4. - Loose or broken wire #02 from steer relays 17CR1 and 17CR2 or drive relays 17CR3 and 17CR4 to base terminal block TB3.	- Check Continuity. Replace if defective. - Check switch. Replace if defective. - Check Continuity. Replace if defective. - Check Continuity. Replace if defective. - Check relays. Replace if defective. - Check Continuity. Replace if defective.
BRAKES WILL NOT RELEASE	- Defective switch S12-4 in drive/steer controller S12. - Loose or broken wire #26 from drive/steer controller S12 to platform terminal block TB2. - Loose or broken wire #26 from platform terminal block TB2 to base terminal block TB3. - Loose or broken wire #26 from base terminal block TB3 to relay 51CR2. - Defective relay 51CR2. - Loose or broken wire #26A from relay 51CR2 to relay 26ACR. - Loose or broken wire #02 from relay 26ACR to base terminal block TB3. - Defective relay 26ACR. - Loose or broken wire #09 from base terminal block TB3 to relay 26ACR. - Loose or broken wire #26B from relay 26ACR to base terminal block TB3. - Loose or broken wire #26B from base terminal block TB3 to brake valve coil 3H-26B.	- Check switch. Replace if defective. - Check Continuity. Replace if defective. - Check Continuity. Replace if defective. - Check Continuity. Replace if defective. - Check Relay. Replace if defective. - Check Continuity. 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.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
ELECTRICAL SYSTEM (Cont.)		
BRAKES WILL NOT RELEASE (Cont.)	12. Defective brake valve coil 3H-26B. 13. Loose or broken wire #02 from brake valve coil 3H-26B to base terminal block TB3.	12. Check Continuity through coil. Replace if defective. 13. Check Continuity. Replace if defective.
BASE CONTROLS INOPERATIVE	1. Defective switch S3-2 in key select switch S3. 2. Loose or broken wire #10 from switch S3-2 to base control toggle switches. 3. Loose or broken wire #10 from key select switch S3 to base terminal block TB3. 4. Loose or broken wire #10 from base terminal block TB3 to relay 20ACR. 5. Loose or broken wire #20A from base terminal block TB3 to relay 20ACR. 6. Loose or broken wire #20 from relay 20ACR to base terminal block TB3. 7. Defective relay 20ACR. 8. Loose or broken wire #10A from relay 20ACR to base terminal block TB3. 9. Open diode D10A.	1. Check Switch. 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 Continuity. Replace if defective. 7. Check Relay. Replace if defective. 8. Check Continuity. Replace if defective. 9. Check Diode. Replace if defective.
ENGINE WILL NOT START FROM BASE CONTROLS	1. Defective base ignition switch S7. 2. Open diode D60-2 at base ignition switch S7. 3. Loose or broken wire #60A from base ignition switch S7 to base terminal block TB3.	1. Check Switch. Replace if defective. 2. Check Diode. Replace if defective. 3. Check Continuity. Replace if defective.
TELESCOPE INOPERATIVE FROM BASE CONTROLS	1. Defective telescope extend/retract switch S23. 2. Loose or broken wire #38(retract) or #39(extend) from telescope extend/retract switch S23 to base terminal block TB3.	1. Check Switch. Replace if defective. 2. Check Continuity. Replace if defective.
RISER BOOM INOPERATIVE FROM BASE CONTROLS	1. Defective riser boom up/down switch S22. 2. Loose or broken wire #13(down) or #14(up) from riser boom up/down switch S22 to base terminal block TB3.	1. Check Switch. Replace if defective. 2. Check Continuity. Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
ELECTRICAL SYSTEM (Cont.)		
MAIN BOOM INOPERATIVE FROM BASE CONTROLS	1. Defective main boom up/down switch S21. 2. Loose or broken wire #30(down) or #31(up) from main boom up/down switch S21 to base terminal block TB3.	1. Check Switch. Replace if defective. 2. Check Continuity. Replace if defective.
TURRET ROTATE INOPERATIVE FROM BASE CONTROLS	1. Defective turret rotate switch S27. 2. Loose or broken wire #32(left) or #33(right) from turret rotate switch S27 to base terminal block TB3.	1. Check Switch. Replace if defective. 2. Check Continuity. Replace if defective.
JIB BOOM INOPERATIVE FROM BASE CONTROLS	1. Defective jib up/down switch S24. 2. Loose or broken wire #34(down) or #35(up) from jib up/down switch S24 to base terminal block TB3.	1. Check Switch. Replace if defective. 2. Check Continuity. Replace if defective.
PLATFORM ROTATE INOPERATIVE FROM BASE CONTROLS	1. Defective platform rotate switch S25. 2. Loose or broken wire #36(left) or #37(right) from platform rotate switch S25 to base terminal block TB3.	1. Check Switch. Replace if defective. 2. Check Continuity. Replace if defective.
PLATFORM LEVELING INOPERATIVE FROM BASE CONTROLS	1. Loose or broken wire #10 from riser up/down switch S22 to relay 30ACR. 2. Defective relay 30ACR. 3. Loose or broken wire #47 from relay 30ACR to platform leveling switch S26. 4. Defective platform leveling switch S26. 5. Loose or broken wire #40(down) or #41(up) from S26 to base terminal block TB3.	1. Check Continuity. Replace if defective. 2. Check Relay. Replace if defective. 3. Check Continuity. Replace if defective. 4. Check switch. Replace if defective. 5. Check Continuity. Replace if defective.
BRAKES APPLY TO QUICK ON LEVEL SURFACE	1. Loose or broken wire #08 from base terminal block TB3 to relay 08CR3. 2. Loose or broken wire #02 from relay 08CR3 to base terminal block TB3. 3. Defective relay 08CR3. 4. Loose or broken wire #28 from base terminal block TB3 to relay 08CR3.	1. Check Continuity. Replace if defective. 2. Check Continuity. Replace if defective. 3. Check relay. Replace if defective. 4. Check Continuity. Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
ELECTRICAL SYSTEM (Cont.)		
BRAKES APPLY TO QUICK ON LEVEL SURFACE (Cont.)	5. Loose or broken wire #28A from relay 08CR3 to relay 28ACR. 6. Loose or broken wire #02 from relay 28ACR to base terminal block TB3. 7. Defective relay 28ACR. 8. Loose or broken wire #09 from base terminal block TB3 to relay 28ACR. 9. Loose or broken wire #28B from relay 28ACR to 5° brake valve coil 2H-28B. 10. Defective 5° brake valve coil 2H-28B. 11. Loose or broken wire #02 from 5° brake valve coil 2H-28B to base terminal block TB3. 12. Brakes out of adjustment.	5. Check Continuity. Replace if defective. 6. Check Continuity. Replace if defective. 7. Check Relay. 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. 12. Refer to section 5, "brake adjustment procedure".
ENGINE STAYS AT IDLE (950 rpm) FROM PLATFORM OR BASE CONTROLS	1. Loose or broken wire #78 from base terminal block TB3 to barber/colman controller BCB1. 2. Defective barber/colman controller BCB1.	1. Check Continuity. Replace if defective. 2. Refer to section 5, "barber/colman troubleshooting".
ENGINE STAYS AT IDLE (950 rpm) FROM PLATFORM CONTROLS	1. Loose or broken wire #08 from platform terminal block TB1 to base terminal block TB3. 2. Open diode D08.	1. Check Continuity. Replace if defective. 2. Check Diode. Replace if defective.
ENGINE STAYS AT IDLE (950 rpm) FROM BASE CONTROLS	1. Open diode D10.	1. Check Diode. Replace if defective.
NO HIGH RPMs FROM PLATFORM	1. Loose or broken wire #08 from platform terminal block TB1 to high engine switch S10. 2. Defective high engine switch S10. 3. Loose or broken wire #79 from high engine switch S10 to platform terminal block TB2. 4. Loose or broken wire #79 from platform terminal block TB2 to base terminal block TB3. 5. Loose or broken wire #79 from base terminal block TB3 to barber/colman controller BCB1. 6. Defective barber/colman controller BCB1.	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. Refer to section 5, "barber/colman troubleshooting".

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
ELECTRICAL SYSTEM (Cont.)		
L.P. OR GASOLINE VALVES INOPERATIVE.	- Loose or broken wire #77 from engine terminal block TB4 to fuel relay 11CR. - Defective relay 11CR.	- Check Continuity. Replace if defective. - Check Relay. Replace if defective.
L.P. VALVE INOPERATIVE.	- Loose or broken wire #50 from fuel relay 11CR to L.P. valve 2P-50. - Defective L.P. valve 2P-50.	- Check Continuity. Replace if defective. - Check Valve. Replace if defective.
GASOLINE VALVE AND FUEL PUMP INOPERATIVE	- Loose or broken wire #60A from platform terminal block TB1 to fuel select switch S29. - Defective fuel select switch S29. - Loose or broken wire #11 from fuel select switch S29 to platform terminal block TB2. - Loose or broken wire #11 from platform terminal block TB2 to base terminal block TB3. - Loose or broken wire #11 from base terminal block TB3 to fuel select relay 11CR. - Loose or broken wire #02 from fuel relay to engine terminal block TB4. - Defective fuel relay 11CR. - Loose or broken wire #56 from fuel relay to 2G-56 gasoline valve or FG-1 fuel pump. - Defective gasoline valve 2G-56. - Defective fuel pump FP-1.	- Check Continuity. Replace if defective. - Check Switch. Replace if defective. - Check Continuity. Replace if defective. - Check Continuity. Replace if defective. - Check Continuity. Replace if defective. - Check Continuity. Replace if defective. - Check Relay. Replace if defective. - Check Continuity. Replace if defective. - Check Valve. Replace if defective. - Check Pump. Replace if defective.
CHOKE INOPERATIVE FROM PLATFORM OR BASE CONTROLS (Kubota gas engines)	- Loose or broken wire #74 from base terminal block to relay 74CR. - Loose or broken wire #02 from engine terminal block to relay 74CR. - Defective relay 74CR. - Loose or broken wire #54 from engine terminal block TB4 to relay 74CR. - Loose or broken wire #54A from relay 74CR to choke solenoid CS1. - Defective choke solenoid CS1. - Loose or broken wire #00 from choke solenoid to engine block.	- Check Continuity. Replace if defective. - Check Continuity. Replace if defective. - Check relay. Replace if defective. - Check Continuity. Replace if defective. - Check Continuity. Replace if defective. - Check Solenoid. Replace if defective. - Check Continuity. Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
ELECTRICAL SYSTEM (Cont.)		
CHOKE INOPERATIVE FROM PLATFORM CONTROLS (Kubota gas engines)	- Loose or broken wire #60A from platform terminal block TB2 to choke switch S8. - Defective choke switch S8. - Loose or broken wire #74 from choke switch S8 to platform terminal block TB2. - Loose or broken wire #74 from platform terminal block TB2 to base terminal block TB3.	- Check Continuity. Replace if defective. - Check Switch. Replace if defective. - Check Continuity. Replace if defective. - Check Continuity. Replace if defective.
CHOKE INOPERATIVE FROM BASE CONTROLS (Kubota gas engines)	- Loose or broken wire # 60A from base terminal block TB3 to choke switch S9. - Defective choke switch S9. - Loose or broken wire #74 from choke switch S9 to base terminal block TB3.	- Check Continuity. Replace if defective. - Check Switch. Replace if defective. - Check Continuity. Replace if defective.
EMERGENCY PUMP INOPERATIVE FROM PLATFORM AND BASE CONTROLS	- Loose or broken wire #09 from base terminal block to relay 01CR. - Loose or broken wire #02 from relay 01CR to base terminal block TB3. - Defective relay 01CR. - Loose or broken wire #01A from relay 01CR to relay 01CR to relay 21CR2. - Loose or broken wire #21 from base terminal block TB3 to relay 21CR2. - Loose or broken wire #02 from relay 21CR2 to base terminal block TB3. - Defective relay 21CR2. - Loose or broken wire #108 from relay 21CR2 to emergency pump contactor 10BCR. - Loose or broken wire #02 from emergency pump contactor 108CR to base terminal block TB3. - Defective emergency pump motor contactor 108CR. - Loose or broken battery cable from battery 03 to emergency pump contactor 108CR.	- Check Continuity. 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. - Check Relay. Replace if defective. - Check Continuity. Replace if defective. - Check Continuity. Replace if defective. - Check Contactor. Replace if defective. - Check Continuity. Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
ELECTRICAL SYSTEM (Cont.)		
EMERGENCY PUMP IN-OPERATIVE FROM PLATFORM AND BASE CONTROLS (Cont.)	12. Loose or broken cable from emergency pump contactor 108CR to emergency pump motor DCM1. 13. Loose or broken 02 cable to DCM1. 14. Defective emergency pump motor DCM1.	12. Check Continuity. Replace if defective. 13. Check Continuity. Replace if defective. 14. Check Motor. Replace if defective.
EMERGENCY PUMP IN-OPERATIVE FROM PLATFORM CONTROLS	1. Loose or broken wire #08 from platform terminal block TB1 to emergency pump switch S5. 2. Defective emergency pump switch S5. 3. Loose or broken wire #01 from emergency pump switch S5 to platform terminal block TB2. 4. Loose or broken wire #01 from platform terminal block TB2 to base terminal block TB3.	1. Check Continuity. Replace if defective. 2. Check Switch. Replace if defective. 3. Check Continuity. Replace if defective. 4. Check Continuity. Replace if defective.
EMERGENCY PUMP IN-OPERATIVE FROM BASE CONTROLS	1. Loose or broken wire #10 from telescope switch S23 to emergency pump switch S4. 2. Defective emergency pump switch S4. 3. Loose or broken wire #01 from emergency pump switch S4 to base terminal block TB3.	1. Check Continuity. Replace if defective. 2. Check Switch. Replace if defective. 3. 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 system relief valve. 2. Stuck or defective dump valve 2H-21A.. 3. Stuck or defective proportional valve 2H-12.. 4. 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 Pump. Replace if defective.
NO TURRET LEFT	1. Stuck or defective turret rotate left valve 4H-32A. 2. Stuck or defective relief valve RV2. 3. Stuck or defective relief valve RV3. 4. Defective turret rotation motor M2. 5. Stuck or defective counter balance valve CB10. 6. Turret rotation speed control valve FC1 out of adjustment.	1. Clean Valve. Replace if defective. 2. Clean Valve. Replace if defective. 3. Clean Valve. Replace if defective. 4. Check Motor. Replace if defective. 5. Clean Valve. Replace if defective. 6. Refer to section 2, page 5.
NO TURRET RIGHT	1. Stuck or defective turret rotate right valve 4H-33A. 2. Stuck or defective relief valve RV2. 3. Stuck or defective relief valve RV3. 4. Defective turret rotation motor M2. 5. Stuck or defective counter balance valve CB11. 6. Turret rotation speed control valve FC1 out of adjustment.	1. Clean Valve. Replace if defective. 2. Clean Valve. Replace if defective. 3. Clean Valve. Replace if defective. 4. Check Motor. Replace if defective. 5. Clean Valve. Replace if defective. 6. Refer to section 2, page 5.
TURRET ROTATION BRAKE WILL NOT RELEASE	1. Stuck or defective shuttle valve SV-3. 2. Stuck or defective brake pack BP-1.	1. Clean Valve. Replace if defective. 2. Rebuild Cylinder. Replace if defective.
NO STEER RIGHT	1. Stuck or defective steer right valve 4H-23A. 2. Blown seals in rotary manifold. 3. Steer cylinder bypassing internally.	1. Clean Valve. Replace if defective. 2. Rebuild Rotary Manifold. Replace if defective. 3. Rebuild Cylinder. Replace if damaged.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
HYDRAULIC SYSTEM (Cont.)		
NO STEER LEFT	1. Stuck or defective steer left valve 4H-24A. 2. Blown seals in rotary manifold. 3. Steer cylinder bypassing internally.	1. Clean Valve. Replace if defective. 2. Rebuild Rotary Manifold. Replace if defective. 3. Rebuild Cylinder. Replace if damaged.
NO MAIN BOOM DOWN	1. Stuck or defective main boom down valve 4H-30A. 2. Stuck or defective counter balance valve CB9.	1. Clean Valve. Replace if defective. 2. Clean Valve. Replace if defective.
NO MAIN BOOM UP	1. Stuck or defective main boom up valve 4H-31A.	1. Clean Valve. Replace if defective.
MAIN BOOM DRIFTS DOWN	1. Open or leaking emergency down valve V1. 2. Defective counter balance valve CB9. 3. Cylinder C2 by passing internally.	1. Close Valve. Replace if defective. 2. Clean Valve. Replace if defective. 3. Rebuild Cylinder. Replace if damaged.
NO JIB BOOM DOWN	1. Stuck or defective jib boom down valve 4H-34A. 2. Plugged orifice 02. 3. Stuck or defective counter balance valve CB8. 4. Plugged orifice 01.	1. Clean Valve. Replace if defective. 2. Clean Orifice. 3. Clean Valve. Replace if defective. 4. Clean Orifice.
NO JIB BOOM UP	1. Stuck or defective jib boom up valve 4H-35A. 2. Plugged orifice 01. 3. Stuck or defective counter balance valve CB7. 4. Plugged orifice 02.	1. Clean Valve. Replace if defective. 2. Clean Orifice. 3. Clean Valve. Replace if defective. 4. Clean Orifice.
JIB BOOM DRIFTS DOWN	1. Emergency down valve V2 open or leaking. 2. Leaking or defective counter balance valve CB8. 3. Jib cylinder C4 by passing internally.	1. Close Valve. Replace if defective. 2. Check Valve. Replace if defective. 3. Rebuild Cylinder. Replace if defective.
NO PLATFORM ROTATE LEFT	1. Stuck or defective platform rotate left valve 4H-36A. 2. Defective platform rotary actuator RA1 3. Stuck counter balance valve CB6.	1. Clean Valve. Replace if defective. 2. Check Actuator. Replace if defective. 3. Clean Valve. Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
HYDRAULIC SYSTEM (Cont.)		
NO PLATFORM ROTATE RIGHT	1. Stuck or defective platform rotate right valve 4H-37A. 2. Defective platform rotary actuator RA1 3. Stuck counter balance valve CB5.	1. Clean Valve. Replace if defective. 2. Check Actuator. Replace if defective. 3. Clean Valve. Replace if defective.
NO PLATFORM ROTATE RIGHT OR LEFT	1. Plugged orifice 04. 2. Defective platform rotary actuator RA1.	1. Clean Orifice. 2. Check Actuator. Replace if defective.
NO TELESCOPE RE-TRACT	1. Stuck or defective telescope retract valve 4H-38A. 2. Stuck counter balance valve CB4.	1. Clean Valve. Replace if defective. 2. Clean Valve. Replace if defective.
NO TELESCOPE EX-TEND	1. Stuck or defective telescope extend valve 4H-39A. 2. Stuck counter balance valve CB3.	1. Clean Valve. Replace if defective. 2. Clean Valve. Replace if defective.
TELESCOPE CYLINDER DRIFTS IN	1. Leaking or defective counter balance valve CB4. 2. Telescope cylinder C3 by passing internally.	1. Check Valve. Replace if defective. 2. Rebuild Cylinder. Replace if damaged.
NO RISER BOOM DOWN	1. Stuck or defective riser boom down valve 4H-13A. 2. Stuck counter balance valve CB2.	1. Clean Valve. Replace if defective. 2. Clean Valve. Replace if defective.
NO RISER BOOM UP	1. Stuck or defective riser boom up valve 4H-14A.	1. Clean Valve. Replace if defective.
RISER BOOM DRIFTS DOWN	1. Leaking or defective counter balance valve CB2. 2. Riser cylinder C1 by passing internally.	1. Check Valve. Replace if defective. 2. Rebuild Cylinder. Replace if damaged.
NO PLATFORM LEVEL-ING DOWN	1. Stuck or defective platform level down valve 4H-40A. 2. Stuck counter balance valve CB1. 3. Leveling master cylinder by passing internally. 4. Stuck counter balance valve CB12.	1. Clean Valve. Replace if defective. 2. Clean Valve. Replace if defective. 3. Rebuild cylinder. Replace if damaged. 4. Clean Valve. Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
HYDRAULIC SYSTEM (Cont.)		
NO PLATFORM LEVEL-ING UP	1. Stuck or defective platform level up valve 4H-41A. 2. Leveling master cylinder by passing internally. 3. Stuck counter balance valve CB13.	1. Clean Valve. Replace if defective. 2. Rebuild cylinder. Replace if damaged. 3. Clean Valve. Replace if defective.
NO PLATFORM LEVEL-ING UP OR DOWN	1. Plugged orifice.	1. Clean Orifice.
PLATFORM DRIFTS DOWN	1. Leaking or defective counter balance valve CB12.	1. Check Valve. Replace if defective.
PLATFORM WILL NOT STAY LEVEL WITH BOOM MOTION	1. Leveling master cylinder by passing internally. 2. Leaking or defective counter balance valve CB12(down) or CB13(up).	1. Rebuild cylinder. Replace if damaged. 2. Check Valve. Replace if defective.
BRAKES WILL NOT RE-LEASE	1. Defective brake valve 3H-26A. 2. Defective or misadjusted pressure reducing valve PR1. 3. Defective relief valve RV8. 4. Stuck shuttle valve SV1.	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 EN-GAGE	1. Stuck or defective brake valve 3H-26A. 2. Brakes out of adjustment. 3. Brake apply control valve FC2 closed.	1. Check Valve. Replace if defective. 2. Refer to section 5 for adjustment procedure. 3. Refer to section 5 for adjustment procedure.
NO DRIVE FORWARD OR REVERSE	1. Brakes will not release. 2. Defective relief valve RV5. 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 section 5, "brake diagnostics". 2. Refer to section 5 for test procedure. Replace if defective. 3. Refer to section 5 for test procedure. Replace if defective. 4. Check Valve. Replace if defective. 5. Refer to section 5, "drive pump diagnostics". 6. Refer to section 5, "drive motor test procedures". Replace if defective.

TROUBLESHOOTING (Cont.)

TROUBLE	PROBABLE CAUSE	REMEDY
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HYDRAULIC SYSTEM (Cont.)

NO DRIVE FORWARD	1. Defective relief valve RV7.	1. Check Valve. Replace if defective.
NO DRIVE REVERSE	1. Defective relief valve RV6.	1. Check Valve. Replace if defective.
NO HIGH DRIVE	1. Stuck or defective high speed drive valve 2H-59. 2. Relief valve RV5 set to low.	1. Check Valve. Replace if defective. 2. Refer to section 5, "drive pump test procedure". If pressure is lower than 300 PSI replace relief valve RV5.
NO ELEVATED DRIVE	1. Defective or misadjusted hi/low drive relief valve RV4.	1. Check Valve. 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 3.
- 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.

NOTES

SECTION 5

MAINTENANCE AND SERVICE

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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 or 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
SEVCON CALIBRATOR	SKYJACK PART 701051

Table 5-2. Torque Specifications

DIRECTIONAL VALVE MOUNTING SCREWS				28-32 in. lbs.				
TURRET ROTATE GEAR MOUNTING BOLTS				205 ft. lbs. / Copper based anti-sieze				
WHEEL MOUNTING BOLTS (4 x 4)				290 ft. lbs. / Dry				
WHEEL MOUNTING BOLTS (4 x 2)				220 ft. lbs. / Dry				
COUNTERWEIGHT BOLTS				240 ft. lbs. / Dry				
AXLE MOUNTING BOLTS				205 ft. lbs. / Dry				
HYDRAULIC PUMP MOUNTING BOLTS				75 ft. lbs. / Dry				
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

M140-502

ELECTRICAL SYSTEM DIAGNOSTICS AND ADJUSTMENTS

EDA BOARD DIAGNOSTICS

1. Start engine from base.
2. Fully retract boom and lower 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 6. 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 HIGH 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 1.83 volts precede to step 12. If reading is between 1.90 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 at least 12 volts are present, replace EDA board.

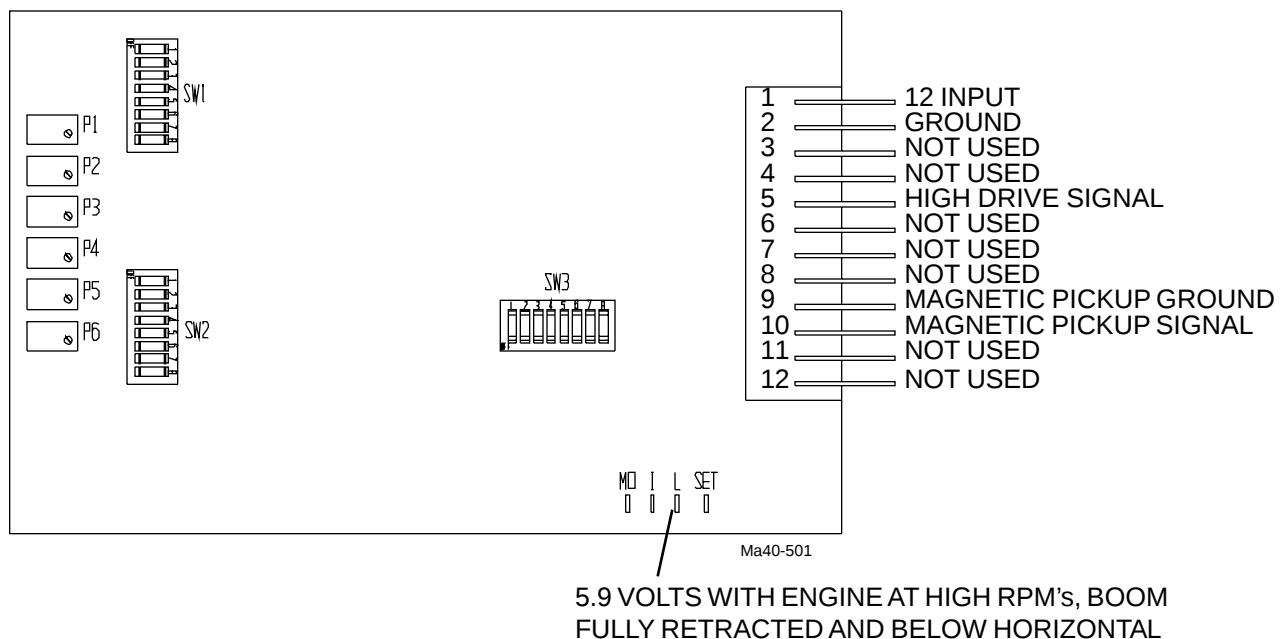


Figure 5-1. Multi-Purpose Controller (EDA) Card.

MDSD BOARD DIAGNOSTICS

1. Start engine from the platform control console and select LOW 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 16 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 readings 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 16 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 4 on MDSD board.
13. Using a Volt\Ohm meter set on ohms scale, check continuity between wire 16 and terminal 3 on MDSD board. If continuity present continue to step 14. If no continuity present, refer to section 4 page 18 under "No Drive Forward" in electrical troubleshooting.
14. Install a Volt\Ohm meter with a milliampere scale between terminal 4 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 8 in this section for adjustment procedures.
16. Remove meter from MDSD board and reinstall wire 16 to terminal 4.
17. Locate and remove wire 15 from terminal 6 on MDSD board.
18. Using a Volt\Ohm meter set on ohms scale, check continuity between wire 15 and terminal 5 on MDSD board. If continuity present continue to step 19. If no continuity present, refer to section 4 page 18 under "No Drive Reverse" in electrical trouble shooting.
19. Install a Volt\Ohm meter with a milliampere scale between terminal 6 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 8 in this section for adjustment procedures.
21. Remove meter from MDSD board and reinstall wire 15 to terminal 6.

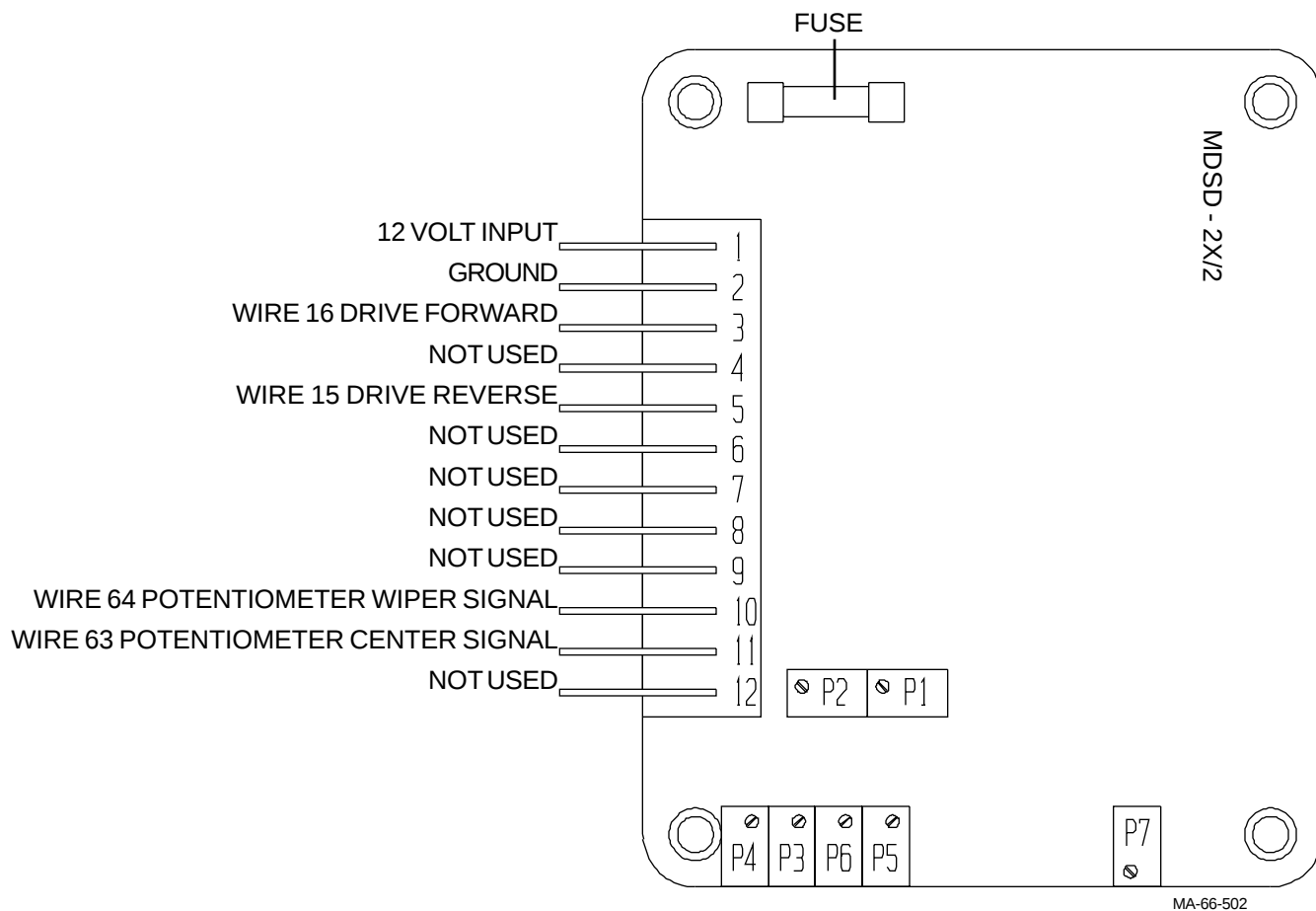


Figure 5-2. Dual Solenoid Driver (MDSD) Card.

EDA AND MDSD BOARD ADJUSTMENT PROCEDURES

1. Set dip switches on SW1, SW2 and SW3 according to the chart on Figure 5-4. 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 5-4. Base EDA Board Setting.
4. Switch base key switch to platform, pull out base control panel emergency stop switch.
5. Pull out platform control console emergency stop switch and turn ignition switch to on.
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 5-4. Base EDA Board Setting for terminal location.
8. Adjust P6 on EDA board to 0 volts.
9. Start engine and select LOW 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 1.32 volts.
12. Select HIGH RPM's with engine speed switch (Upper position).
13. Adjust P2 on EDA board to 1.83 volts. **NOTE:** Dip switch sequence 1 - 4 on SW1 may have to be changed in order to obtain 1.83 volts.

NOTE

Adjusting P2 will affect adjustment of P1. Repeat steps 9 through 13 until voltages stay in adjustment.

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 LOW RPM's with engine speed switch (Lower position).
16. Adjust P3 on EDA board to 3.79 volts.
17. Select HIGH 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.

NOTE

Adjusting P4 will affect adjustment of P3. Repeat steps 16 through 18 until voltages stay in adjustment.

19. Extend boom approximately 3 feet to put machine in creep speed mode.
20. Mark the side of a tire at a point closest to the ground.
21. Fully stroke the drive joystick in the forward position.
22. Using the mark on the side of the tire, time how long it takes to make 1 revolution.
23. Adjust P5 on the MDSD board to obtain 1 revolution in 28 seconds.
24. Fully stroke the drive joystick in reverse.
25. Using the mark on the side of the tire, time how long it takes to make 1 revolution.
26. Adjust P6 on the MDSD board to obtain 1 revolution in 28 seconds.
27. Mark off 50 feet in an open area.
28. Retract boom fully to put machine in high speed mode.
29. Time how long it takes to travel 50 feet. Machine should travel 50 feet in 9-1/2 to 10-1/2 seconds.
30. Adjust P3 on MDSD board for forward to obtain 50 feet in 9-1/2 to 10-1/2 seconds.
31. Adjust P4 on MDSD board for reverse to obtain 50 feet in 9-1/2 to 10-1/2 seconds.
32. If adjustment on P3 or P4 require increasing output excessively, continue with step 33.

NOTE

The following steps can be used in the event that the MDSD board is extremely out of adjustment or there is not enough area to adjust using steps 19 through 32.



WARNING

Place machine on level surface and block wheels to prevent machine from rolling.

- 33. Override drive pump relief valves. Refer to section 2, page 4 for instructions.
- 34. Start engine and set throttle switch to high engine. Remaining adjustments will be made with engine running and in high engine setting.

NOTE

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

- 35. Remove wire 16 from terminal 3 of MDSD board.
- 36. Attach milliammeter between wire 16 and terminal 3.
- 37. Fully retract and lower the boom.
- 38. Move drive joystick to the full forward position.
- 39. Adjust P3 on MDSD board to 847 milliamps (.847A).
- 40. Remove meter from wire 16 and terminal 3. Reattach wire 16 to terminal 3.
- 41. Remove wire 15 from terminal 5 of MDSD board.
- 42. Attach milliammeter between wire 15 and terminal 5.
- 43. Fully retract and lower the boom.
- 44. Move drive joystick fully to the reverse position.
- 45. Adjust P4 on MDSD board to 847 milliamps (.847A).
- 46. Remove meter from wire 15 and terminal 5. Reattach wire 15 to terminal 5.
- 47. Reengage drive pump relief valves. Refer to section 2, page 4 for instructions.
- 48. Apply nail polish or RTV silicone, to prevent vibration from changing potentiometer settings.



CAUTION

Do not exceed 1200 milliamps (1.2A) on wire 15 or 16. Damage to drive coils will result. If output requires a reading higher than 1200 milliamps(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.

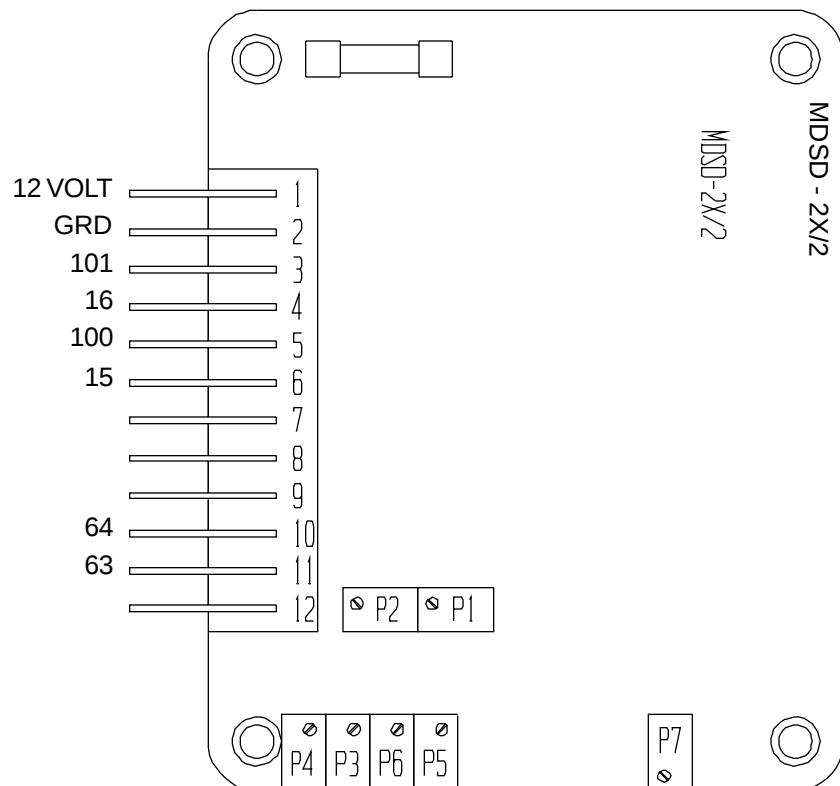


Figure 5-3. Dual Solenoid Driver (MDSD) Card.

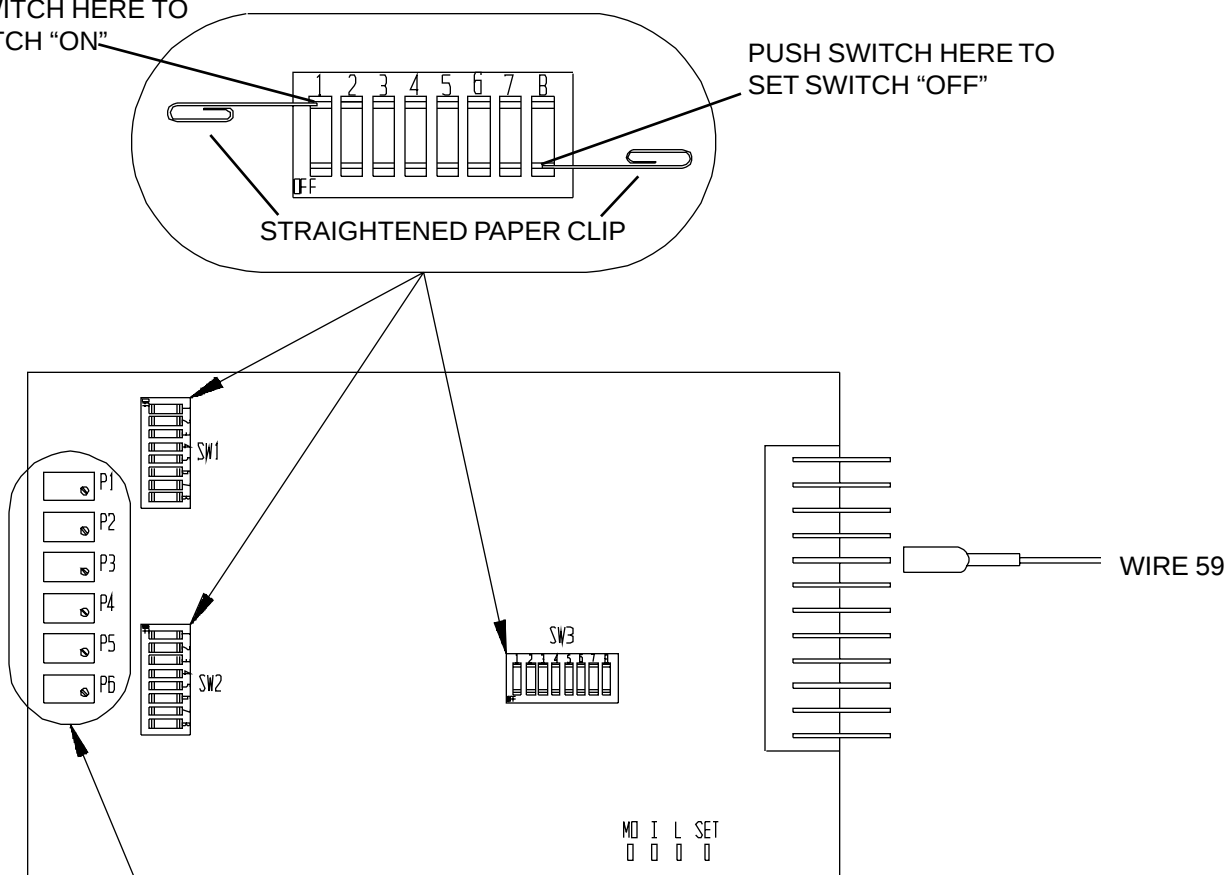
Ma40-503

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

PUSH SWITCH HERE TO
SET SWITCH "ON"

PUSH SWITCH HERE TO
SET SWITCH "OFF"



SET POTS ACCORDING TO CHART BELOW
PRIOR TO ADJUSTING EDA BOARD

- ☐ P1 CW until you hear the pot click
- ☐ P2 CCW until you hear the pot click
- ☐ P3 CW until you hear the pot click
- ☐ P4 CCW until you hear the pot click
- ☐ P5 CW until you hear the pot click

Ma40-504

Figure 5-4. Base EDA Board Settings.

BOOM FUNCTION BOARD DIAGNOSTICS

1. Open Platform Control Box and locate the Boom Function Control Board. Refer to Figure 6-2 for location.
2. Pull out the Platform Emergency Stop Button and depress and hold the foot switch.
3. Locate the terminals labeled "Vs" and "GND" on the Boom Function Control Board.
4. Measure the voltage between the terminals labeled "Vs" and "GND". It should read 10-12 volts. If no voltage present, repair the wiring between the Boom Function Control Board and the Platform Terminal block. If voltage present, go to step 5.
5. Locate the terminals labeled "+" and "-" on the Boom Function Control Board. Refer to Figure 5-5 for location.
6. Measure the voltage between the terminals labeled "+" and "-". It should read 6.2 volts. If no voltage present replace the Boom Function Control Board, If voltage present go to step 7.
7. Locate the terminals labeled "-" and "SIG" on the Boom Function Control Board. Refer to Figure 5-5 for location.
8. Attach the Meter leads to the terminals labeled "-" and "SIG".
9. Slowly operate the Speed Knob several times from the fully counterclockwise(left) to the clockwise(right) position while observing the meter. The reading should vary **SMOOTHLY** between 3 volts(fully counterclockwise) to 4.8 volts(fully clockwise). If no voltage present or reading "skips" replace the Speed Control Potentiometer. If voltage present go to step 10.
10. Locate and remove wire #12 from the terminal labeled "PWMA". Refer to Figure 5-5 for location.
11. Switch the meter to the milliamps function. Attach the Black (-) meter to the terminal labeled "PWM A". Attach the Red (+) lead to wire #12.
12. Slowly operate the Speed Knob several times from the fully counterclockwise(left) to the fully clockwise(right) position while observing the meter. The reading should vary **SMOOTHLY** between 550mA(fully counterclockwise) to 1500 mA(fully clockwise). If no amperage present replace the Control Board. If readings are outside this range refer to Page 13,"Boom Control Board Adjustment Procedure". If amperage present refer to Page 5 in Section 4, "No Boom Functions from Platform".

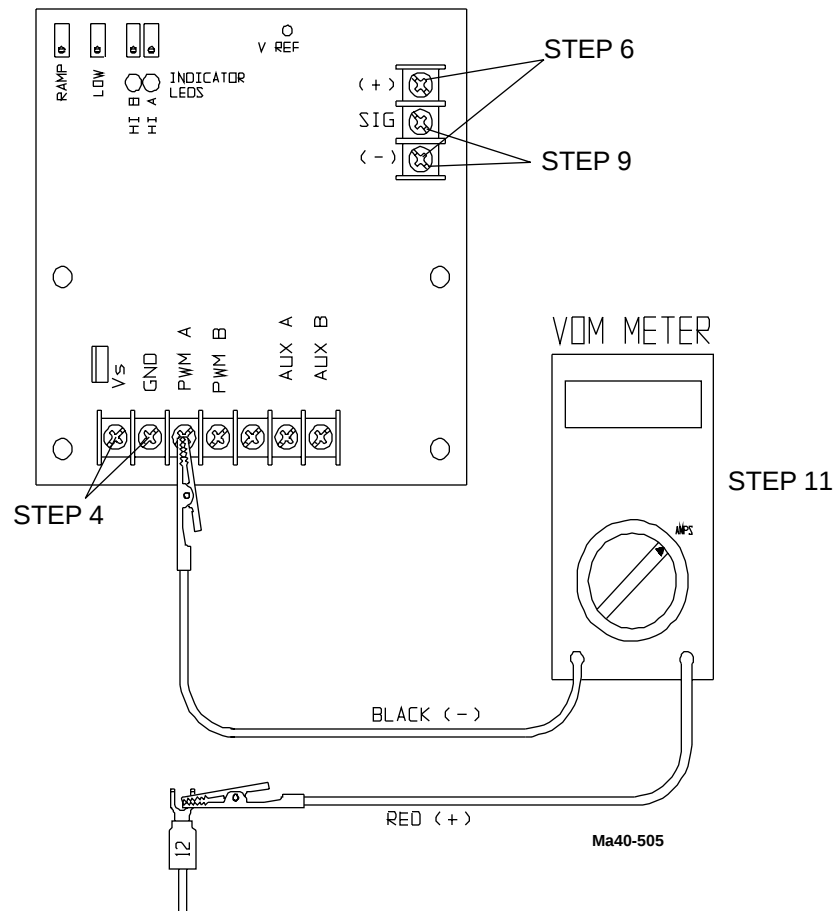


Figure 5-5. Boom Function Board Settings.

BOOM FUNCTION BOARD ADJUSTMENT PROCEDURE

1. Open Platform Control Box and locate the Boom Function Control Board. Refer to Figure 6-2 for location.
2. Locate and remove wire #12 from the terminal labeled "PWM A". Refer to Figure 5-6 for location.
3. Attach the Black (-) meter lead to the terminal labeled "PWM A" on the Boom Function Control Board.
NOTE: Meter must be capable of reading Milliamps.
4. Attach the Red (+) meter lead to wire #12.
5. Switch the meter to the Milliamps function.
6. Pull out the Platform Emergency Stop Button, depress and hold the foot switch.
7. Rotate the Boom Speed Control knob fully counterclockwise(left) to the slow position.
8. Locate and adjust the Potentiometer labeled "LOW" until the meter reads 550 mA(.55A). Refer to figure 5-6 for location.
9. Rotate the Boom Speed Control knob fully clockwise(right) to the fast position.
10. Locate and adjust the Potentiometer labeled "HI A" until the meter reads 1500mA(1.5A).
NOTE: Making adjustments to either potentiometer will affect the other potentiometer. Repeat Steps 7 through 10 until readings stabilize at the proper values.
11. Remove meter and reattach wire #12 to the terminal labeled "PWM A".
12. Start the engine and select "HI" engine RPM's.
13. Time each function. Adjust the potentiometer labeled "HI A" down(CCW) if function times exceed the Specifications in Section 2, Page 13.
14. Paint the potentiometer adjusting screws with nail polish or RTV Silicone to prevent vibration from changing settings.

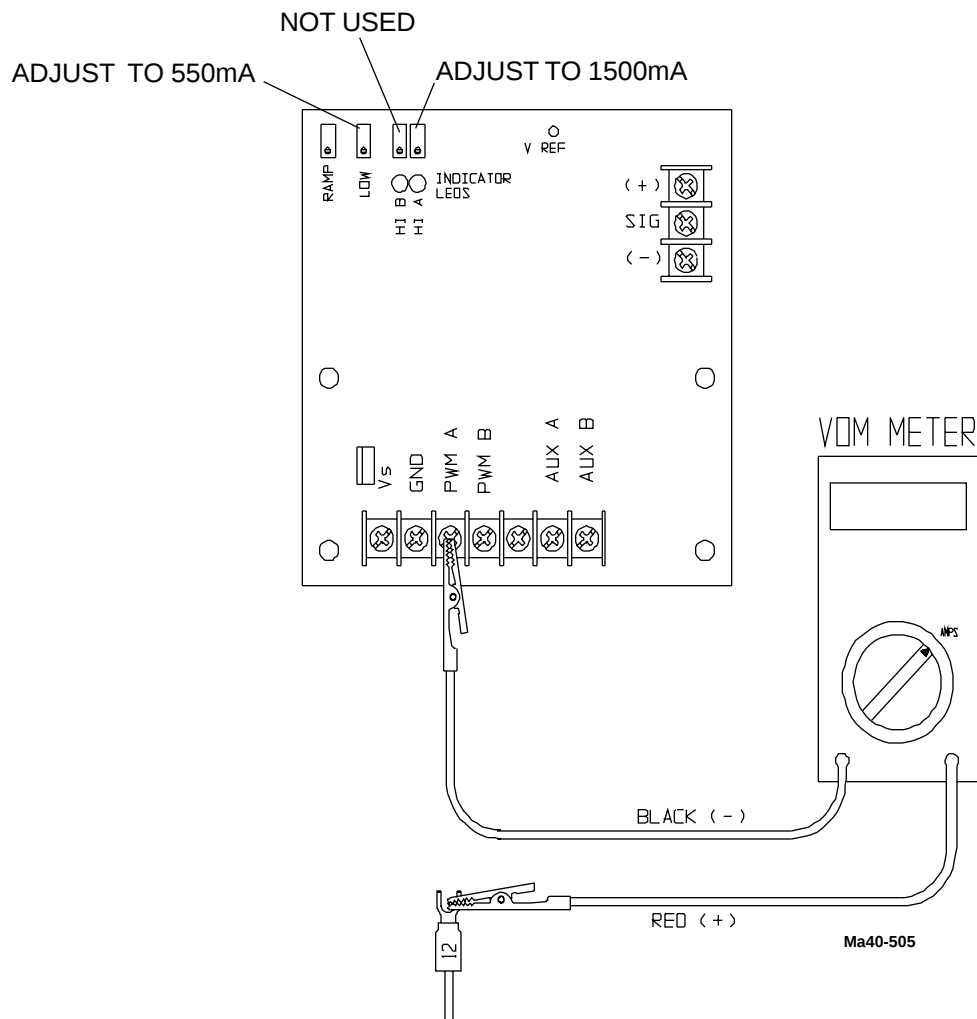


Figure 5-6. Boom Function Board Adjustment Settings.

GOVERNOR DIAGNOSTICS (Kubota Engines)

1. Start Engine from Platform Controls. Depress Foot Switch.
2. Slowly engage Drive Forward or Reverse. If machine will not drive and go under a "Heavy Load", Refer to Page 16 for "Magnetic Pickup Test Procedure". If machine drives go to Step 3.
3. Locate and disconnect the spade connectors in the Throttle Actuator wires. Refer to Figure 5-7 for location.
4. Using a Volt/Ohm Meter set to the RX10 Scale, measure the resistance of the Actuator Coil. It should read 1.8 Ohms $\pm$.2 Ohms. If reading is outside of this range replace Actuator. If reading is within range go to Step 5.
5. Reconnect spade connectors.
6. Start the Engine from the Platform Controls.
7. Select "LOW" with the Engine Speed switch. Depress and hold Foot Switch.
8. In the Lower Control Box, locate wire #78 in Terminal Block TB3. Refer to section 3, page 8.
9. Measure voltage on wire #78. It should read 12 volts $\pm$ 2 volts. If no voltage present refer to "Engine Stays at Idle(950 rpm) from Platform Controls" in section 4, page 24. If voltage present replace Governor Control Box.
10. Locate wire #79 in Lower Control Box in Terminal Block TB3. Refer to section 3, page 8.
11. Using a jumper wire from wire #09, jump to wire #79. If RPM's rise, refer to "No High RPM" section of Electrical Trouble Shooting, section 4, page 24. If RPM's do not rise replace Governor Control Box.

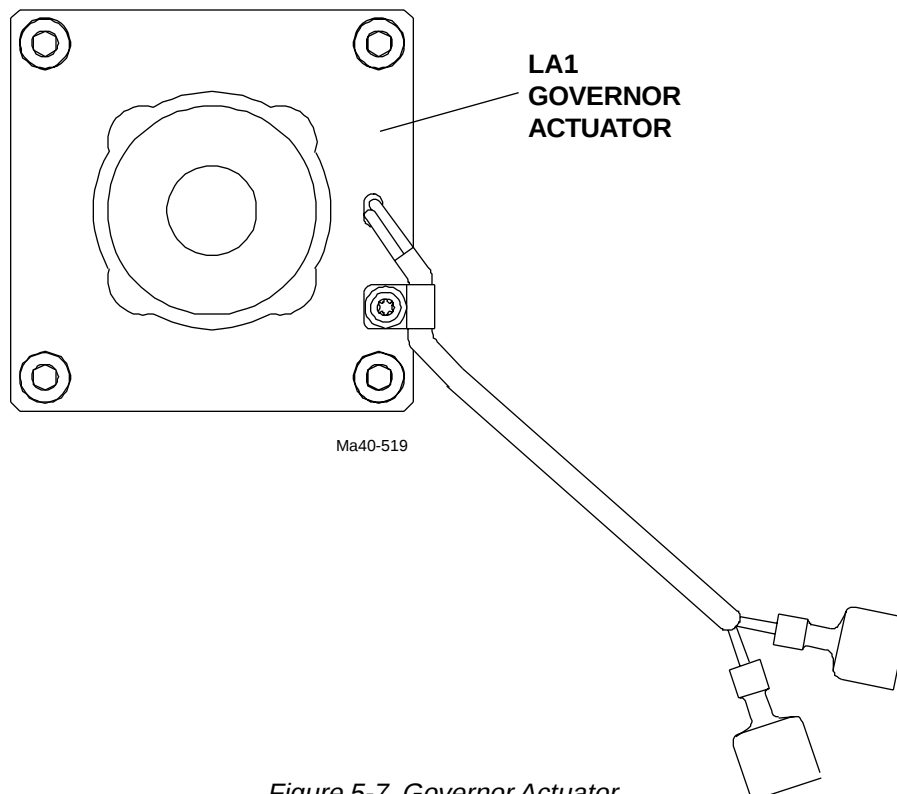


Figure 5-7. Governor Actuator

COLOR CONVERSION CHART		
BARBER/COLMAN COLOR	SKYJACK COLOR	FUNCTION
Red	Brown/Gray 77	12 Volts
Black	White 02	Ground
Purple	Purple/Blue 86	Actuator
Purple	Purple/Blue 87	Actuator
Black/White	Brown/Purple 79	High RPM Signal
White	Red/Blue 78	Mid RPM Signal
SHIELDED WIRES		
Bare Shield	White 02	
Black	Black 98	
White	White 98A	

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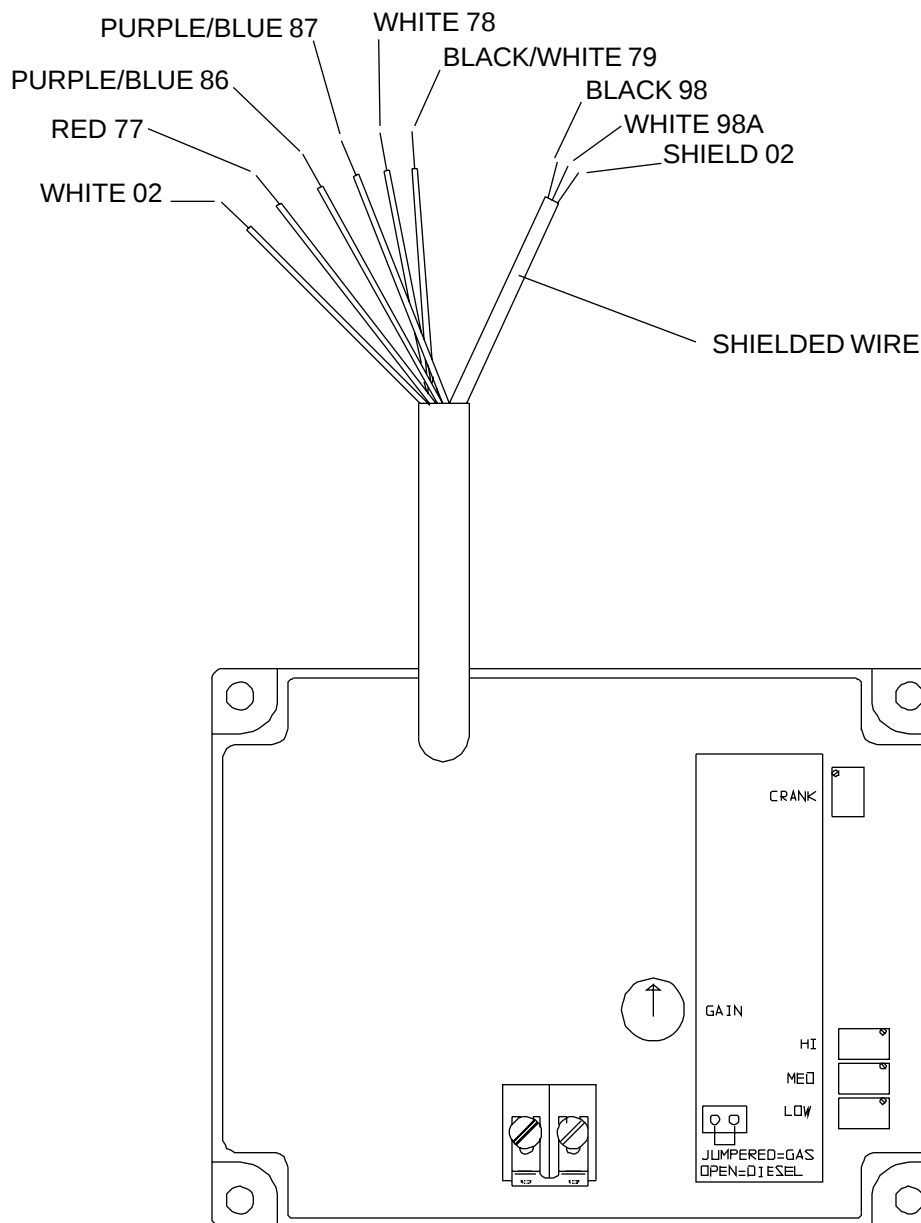


Figure 5-8. Governor Control Card

Ma40-517

GOVERNOR ADJUSTING PROCEDURE (Kubota Engines)

1. Start and run engine at operating temperature. Shut engine off.
2. Locate and adjust the "GAIN" Potentiometer on the Governor Control Box to 30%. See Figure 5-9 for location.
3. Attach a Tachometer to the engine.
4. Locate and disconnect the spade connectors in the wires going to the Governor Actuator. See Figure 5-7 for location.
5. Start engine from Base Controls and adjust the Idle Stop Screw on the carburetor to 950 RPM's.
6. Stop engine and reconnect spade connectors.
7. Start engine from Platforms Controls. **DO NOT DEPRESS FOOTSWITCH.**
8. Locate and adjust the "LOW" Potentiometer on the Governor Control Box to 1400 RPM's. See Figure 5-9 for location.
9. Select "LOW" RPM's with the Engine Speed switch. Depress and hold the Foot switch.
10. Locate and adjust the "MID" Potentiometer on the Governor Control Box to LOW RPM's. See Figure 5-9 for location.
11. Select "HI" RPM's with the Engine Speed switch. Depress and hold the Foot switch.
12. Locate and adjust the "HI" Potentiometer on the Governor Control Box to HIGH RPM's. See Figure 5-9 for location.
13. Continue to hold Foot Switch depressed with the Engine Speed switch in the "HIGH" position.
14. Locate the "GAIN" Potentiometer on the Governor Control Box and turn it clockwise until the engine surges. Turn the "GAIN" potentiometer counter clockwise until the engine stablizes. NOTE: If Engine stays stable at 100% Gain, manually bump the carburetor throttle linkage to cause the engine to surge. Turn the "GAIN" Potentiometer counter clockwise until the engine "surges" 2-3 times after bumping. If the Engine stays stable at 100% Gain after "bumping" the throttle linkage, leave at the 100% setting.
15. With Foot Switch depressed, switch between "LOW" and "HIGH" with the Engine Speed switch. The governor should respond immediately with 2-3 "surges". Adjust the Gain Potentiometer to achieve immediate response with 2-3 "surges".
16. Paint all Potentiometer adjusting screws with Nail Polish or RTV Silicone to prevent vibration from changing settings.

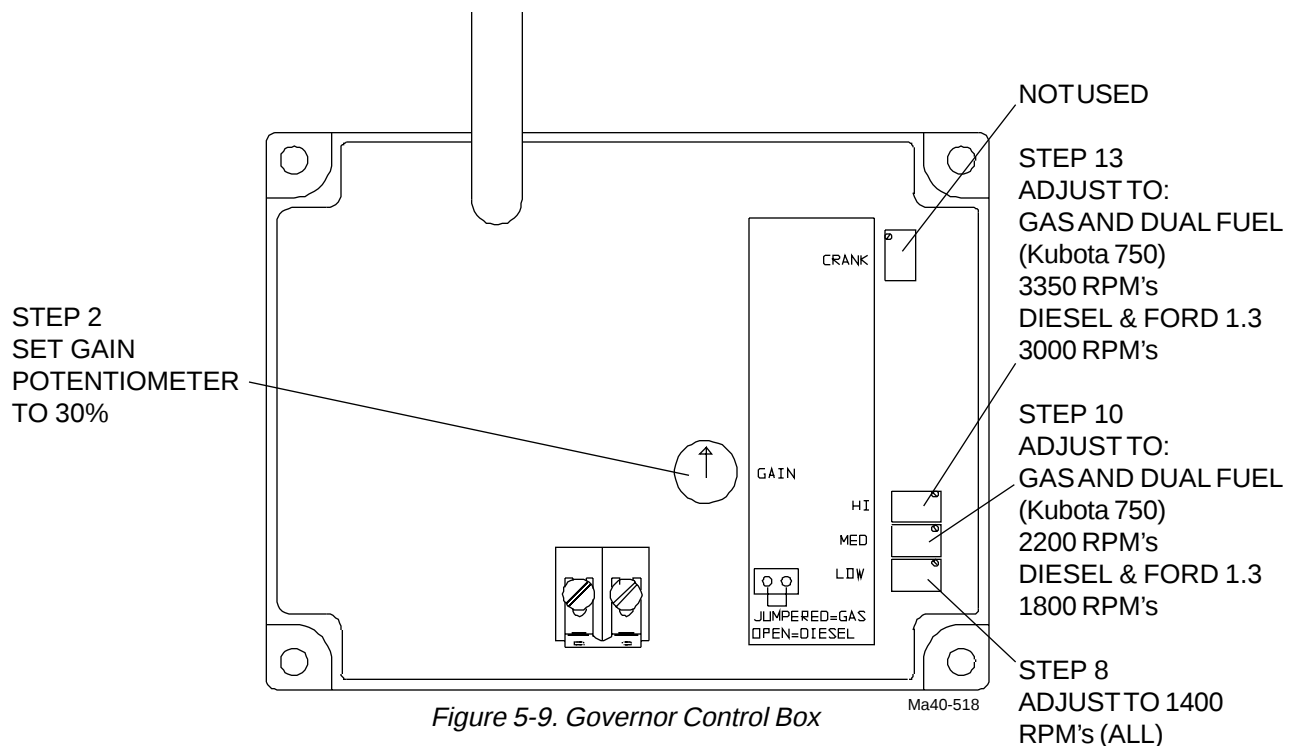


Figure 5-9. Governor Control Box

NOTES

BARBER\COLMAN GOVERNOR DIAGNOSTICS (Ford Engines)

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. 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 $2.0 \text{ OHMS} \pm .5 \text{ OHMS}$. 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. Select "Platform" with key select switch.
7. With speed select switch in the low position and the foot switch held down, measure voltage between terminal 7 on the governor control box and a good chassis ground. Reading should be $12 \text{ volt} \pm 2 \text{ volts}$. If no voltage present repair wiring between speed select switch and control box.
8. With speed select switch in the high position and the foot switch held down, repeat step 7 between terminal 8 on the governor control box and a good chassis ground. Reading should be $12 \text{ volt} \pm 2 \text{ volts}$. If no voltage present repair wiring between speed select switch and control box.
9. 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 RPMs. If no voltage present, repair wiring between governor control box and the distributorless ignition module. NOTE: The absence of voltage at either terminal 5 or 6 will cause the governor to operate the engine at double the set RPM.
10. Measure the voltage between 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.
11. Attach a volt/ohm meter to terminals 3 and 4. With the foot switch held down activate speed selector switch from low to high and from high to low and measure voltage. If no voltage present, replace governor control box.

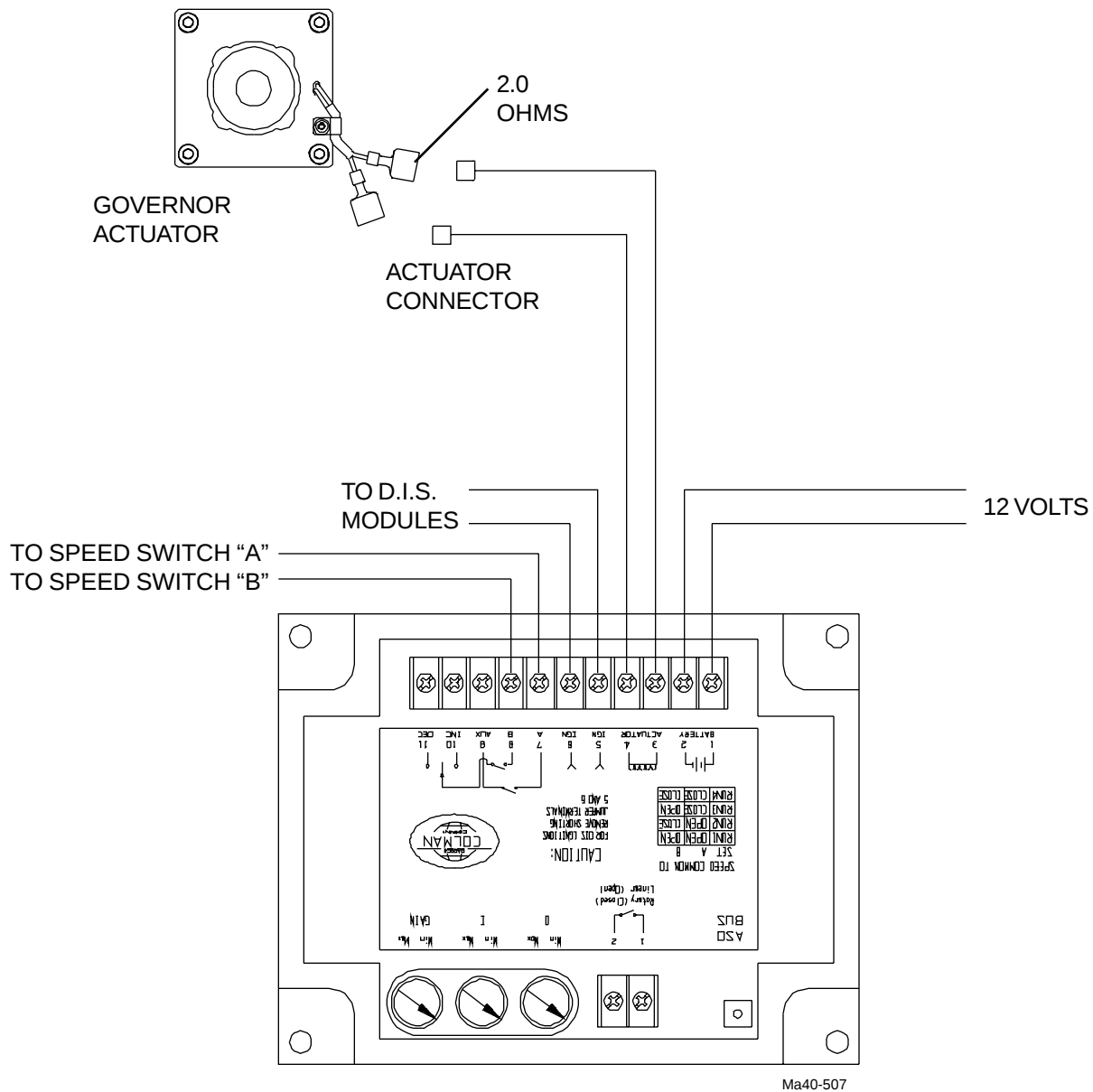


Figure 5-10. Barber Colman Governor Control Diagnostics.

BARBER COLMAN GOVERNOR ADJUSTMENTS (Ford Engines)

1. Start and run engine until at normal operating temperature.
2. Set the "D", "I" AND "GAIN" potentiometers as shown in Figure 5-11.
3. Shut engine off. Disconnect throttle actuator wires at throttle actuator.
4. Attach a meter to wires 98 and 98A on the EDA board in the lower control panel. Set meter to Khz. Attach a tachometer to the engine.
5. Start engine and adjust the mechanical idle to 600 RPM's (1.35Khz) using the throttle stop screw on the throttle shaft.
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 1400 RPM's (3.15 Khz) by jumping terminal 9 to 10 to increase RPM's or terminal 11 to decrease RPM's.
9. With speed selector switch in low speed position and the foot switch held down, adjust engine governor to 1800 RPM's (4.05 Khz) by jumping terminal 9 to 10 to increase RPM's or terminal 9 to terminal 11 to decrease RPM's.
10. With speed selector switch in high speed position and the foot switch held down, adjust engine governor to 2600 RPM's (5.85 Khz) by jumping terminal 9 to 10 to increase RPM's or terminal 9 to terminal 11 to decrease RPM's.
11. Recheck engine idle, low and high settings. Readjust if necessary.
12. Select "Base" with the key select switch.
13. Locate the "GAIN" Potentiometer on the Governor Control Box and turn it clockwise until the engine surges. Turn the "GAIN" potentiometer counter clockwise until the engine stabilizes. NOTE: If Engine stays stable at 100% Gain, manually bump the carburetor throttle linkage to cause the engine to surge. Turn the "GAIN" Potentiometer counter clockwise until the engine "surges" 2-3 times after bumping. If the Engine stays stable at 100% Gain after "bumping" the throttle linkage, leave at the 100% setting.
14. Locate the "D" potentiometer and repeat step 13.
15. While the engine is running, remove battery power to the governor control box (terminal 1). Let the engine wind down to approximately 1/2 speed and reinstall battery power. While monitoring engine RPM, repeat this procedure and adjust the "I" potentiometer clockwise until the engine just slightly overshoots the set speed. If the engine overshoot is too great, turn the "I" potentiometer counterclockwise until satisfied.

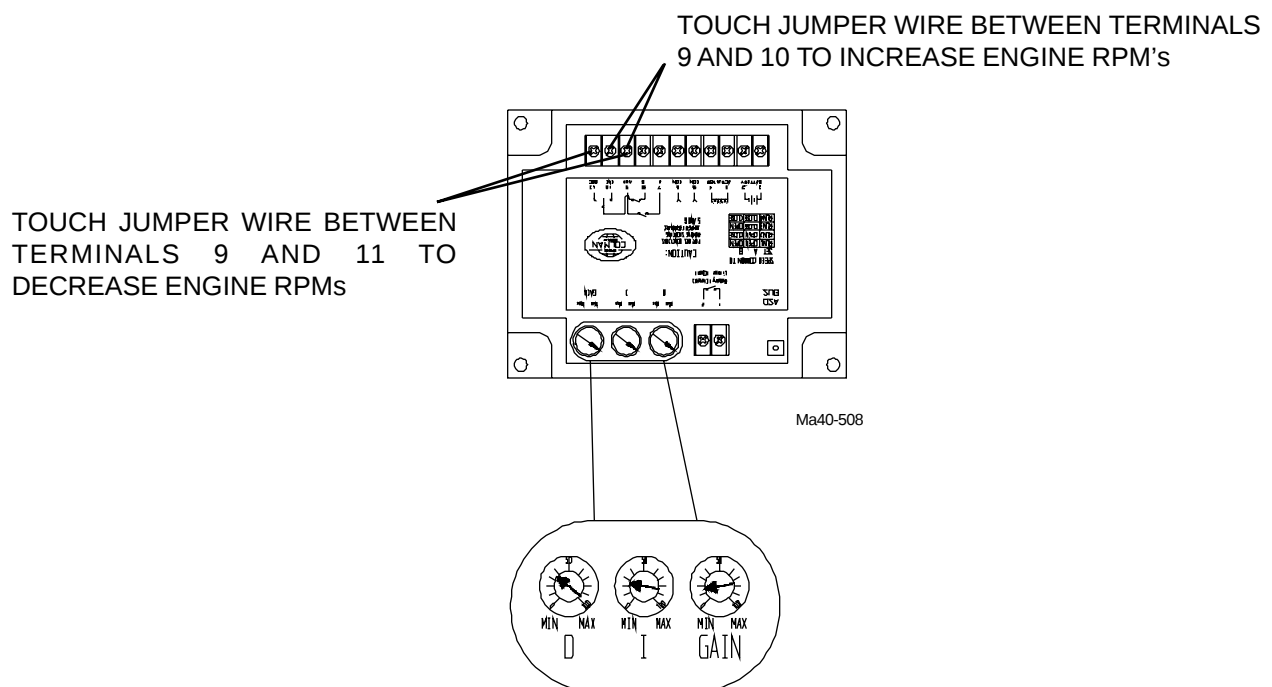


Figure 5-11. Barber Colman Governor Control.

MAGNETIC PICK UP TEST PROCEDURE

1. Locate magnetic pickup on engine bell housing. Trace leads from the magnetic pickup to the terminal block in the lower control panel.
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 5-12. It should read between 135 - 165 ohms. If reading is outside of this range, the pick up is defective.

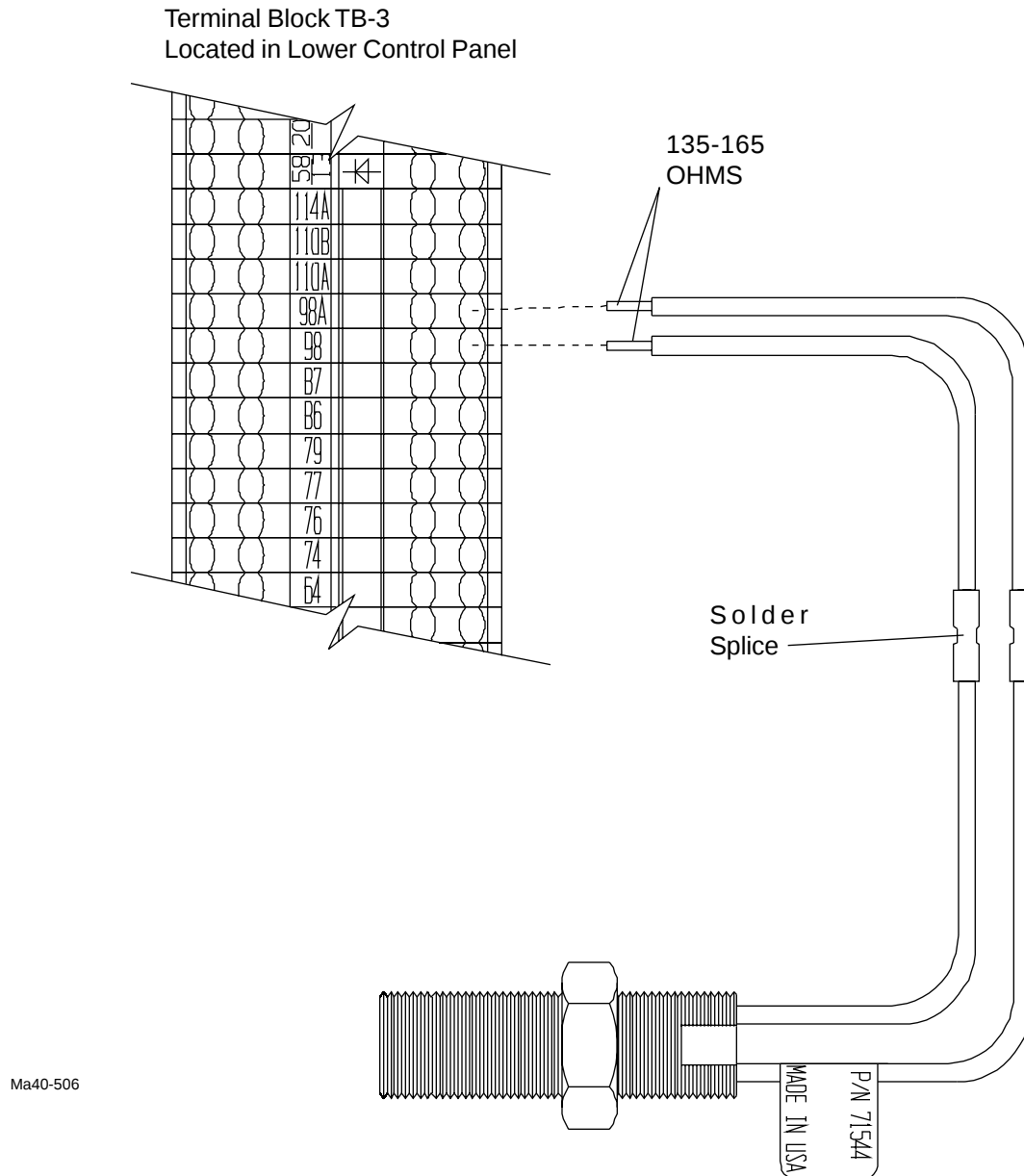


Figure 5-12. Magnetic Tachometer Pickup.

MAGNETIC PICKUP REPLACEMENT INSTRUCTIONS

1. Locate and mark the location of the wires from the magnetic pickup to the solder splice in the engine wiring loom.
2. Cut wires at splice.
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. Connect pickup wires to the wires in the engine wiring loom, solder and shrink wrap the connection.
11. Start engine from the platform and select high engine RPM's (3350 RPM Dual Fuel, 2600 RPM Diesel).
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.

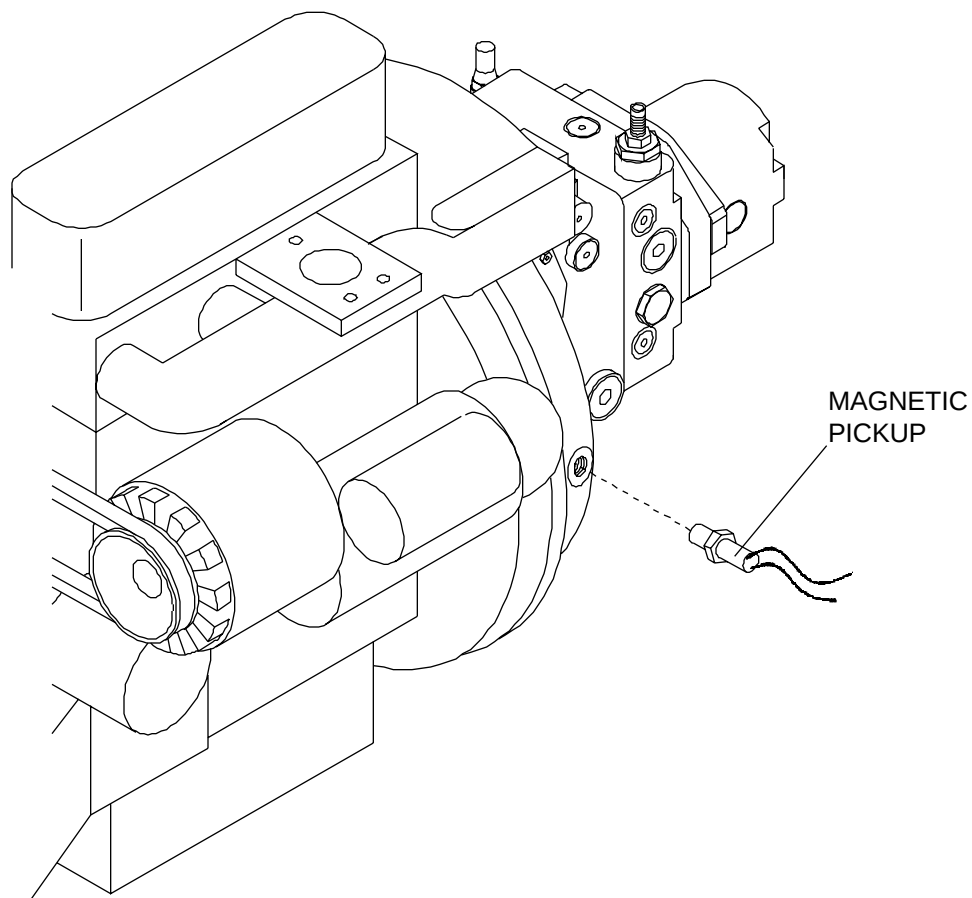


Figure 5-13. Magnetic Pickup.

HYDRAULIC SYSTEM DIAGNOSTICS AND ADJUSTMENTS

BOOM PUMP PRESSURE ADJUSTMENT

1. Locate Quick Coupling in Hydraulic line just before Accumulator. Refer to Figure 5-14 for location.
2. Attach a Calibrated 5000 PSI gauge to the Coupler.
3. Start the Engine from Base Controls.
4. Engage and hold the Riser Boom Down Toggle switch.
5. Observe reading on Gauge.
6. Adjust RV1 to 2600 PSI. Refer to Figure 5-14 for location.
7. Shut Engine off, remove Gauge.

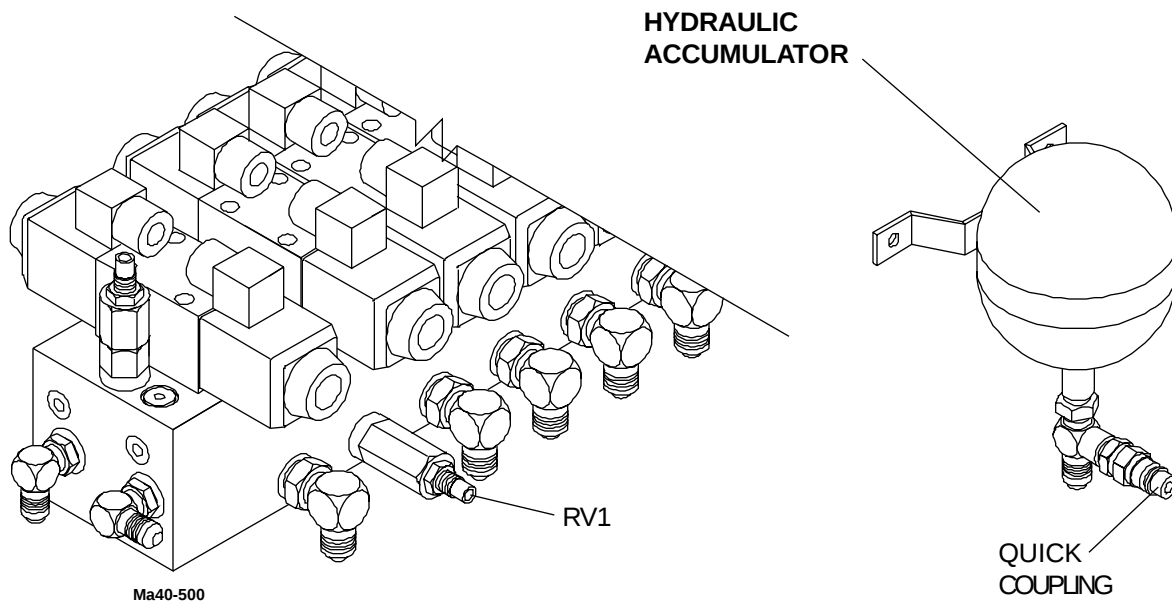


Figure 5-14. Boom Pump Pressure Settings.

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 5-15, and Figure 5-16.

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 390 PSI. If 390 PSI present, move to step 9. If no pressure present, go to next step.
6. If no pressure present or below 390 PSI, replace relief valve RV5.
7. If no pressure present or below 390 PSI after replacing relief valve RV5, replace the pressure over ride valve POR1.
8. If no pressure present or below 390 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 (2200 RPM Dual Fuel, 1800 RPM Diesel).
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.

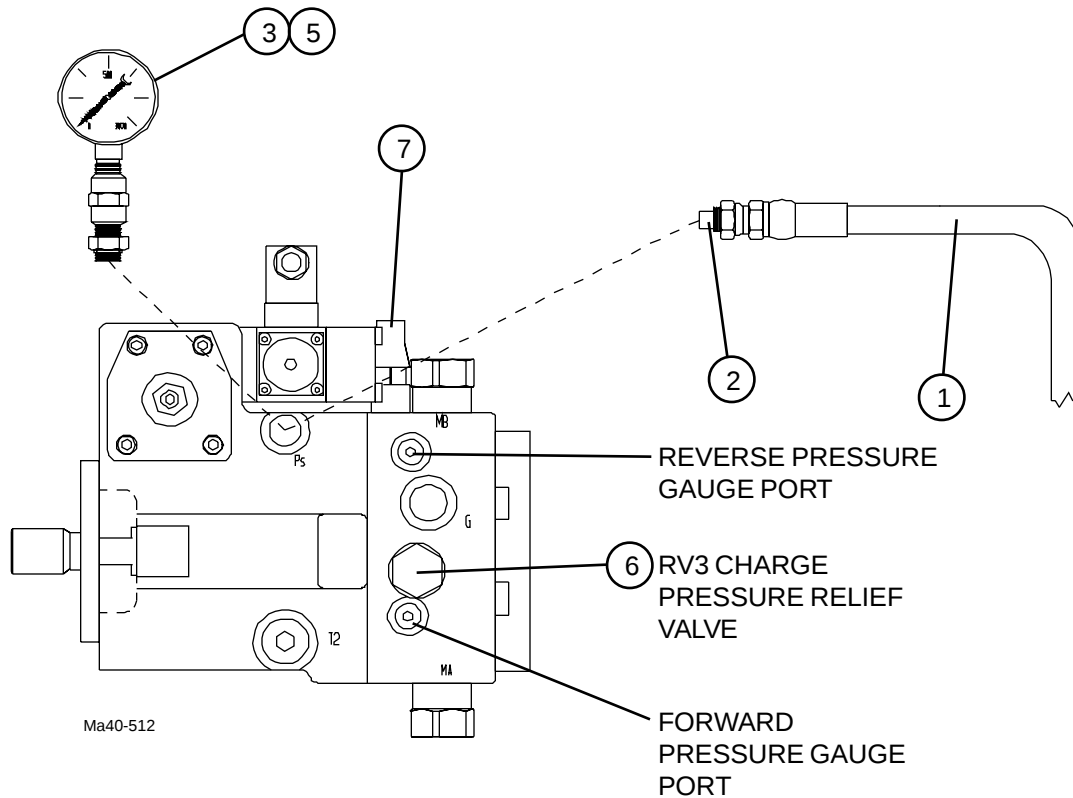


Figure 5-15 Drive Pump Test Ports

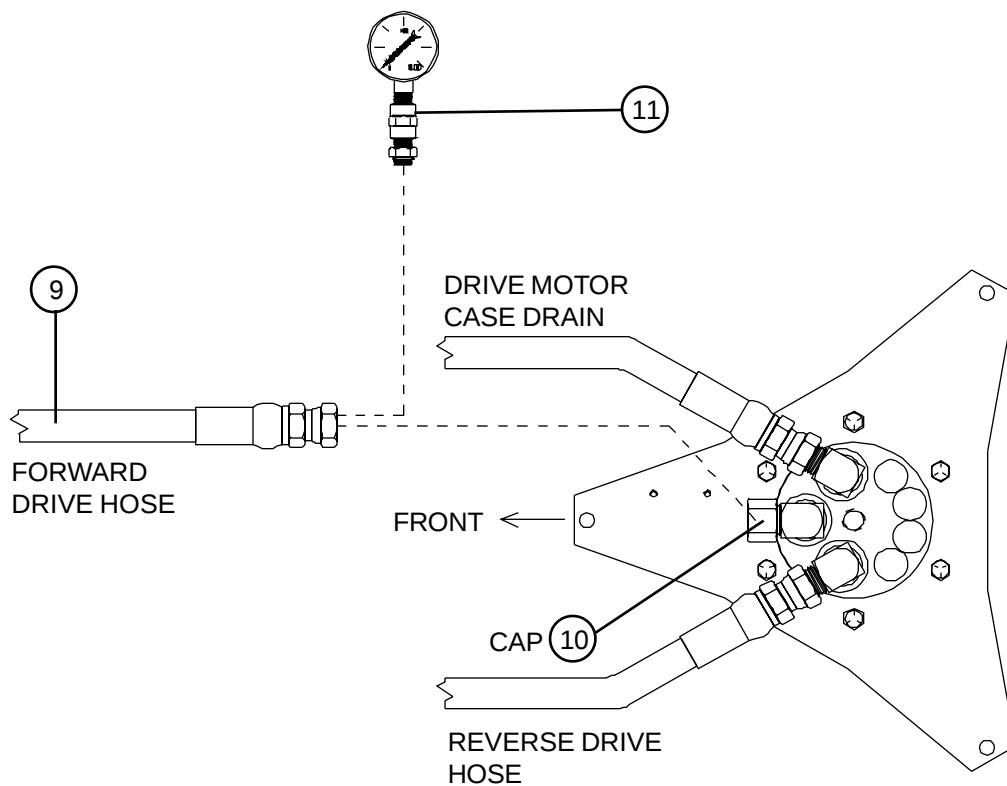


Figure 5-16 Rotary Manifold

LOW DRIVE PRESSURE ADJUSTMENT

- 1) Fully lower and retract boom.
- 2) Tee a 1000 PSI gauge into the hose at the Ps port on the drive pump. Refer to Figure 5-17.
- 3) Start engine, and check gauge reading with boom fully lowered and retracted. It should read 390 PSI.
- 4) Extend telescope 3 feet. Adjust Hi/Low relief valve to 250 PSI. Refer to Figure 5-18.
- 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.

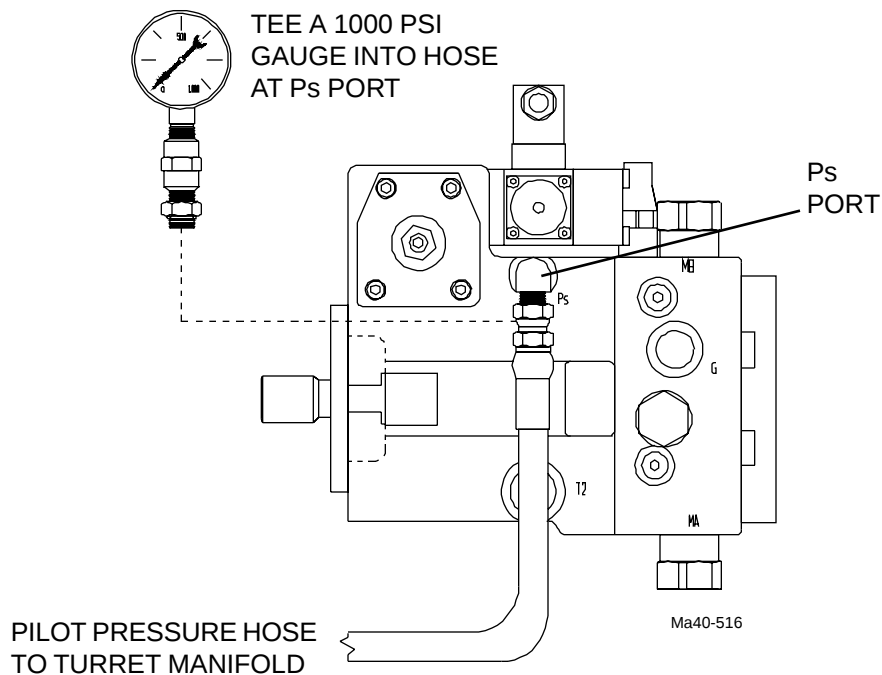


Figure 5-17. Drive Pump.

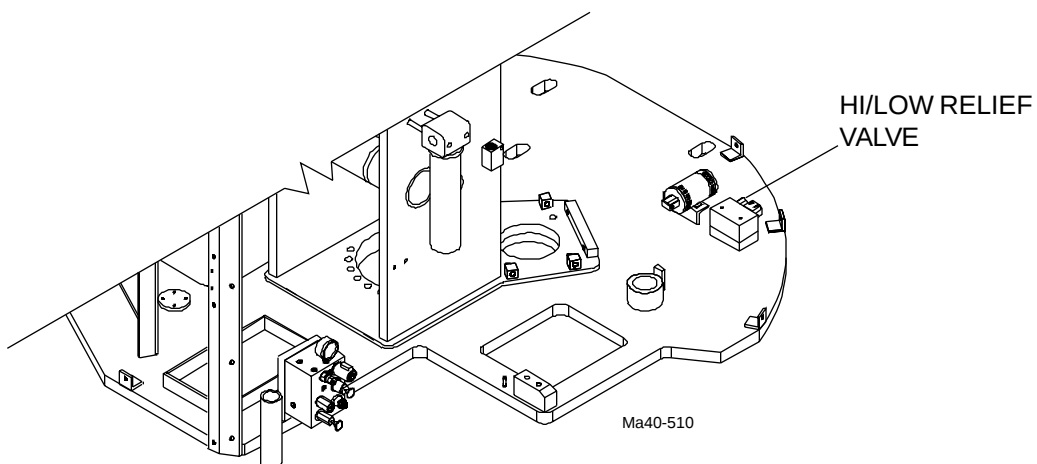


Figure 5-18. Hi/Low Relief Valve Location.

BRAKE ADJUSTMENT PROCEDURE

Hydraulic

1. Block wheels to prevent machine from rolling.
2. Locate brake system pressure reducer. Refer to Figure 5-19 for location
3. Remove cap from pressure reducer and turn adjuster **GENTLY** clockwise until it bottoms out.



CAUTION

Valve damage will occur if tightened too much!

4. Pull out brake release override (red knob). Refer to Figure 5-19 for location.
5. Locate brake system relief valve. Refer to Figure 5-19. for location.
6. Pump brake release hand pump. See Figure 5-19. 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.

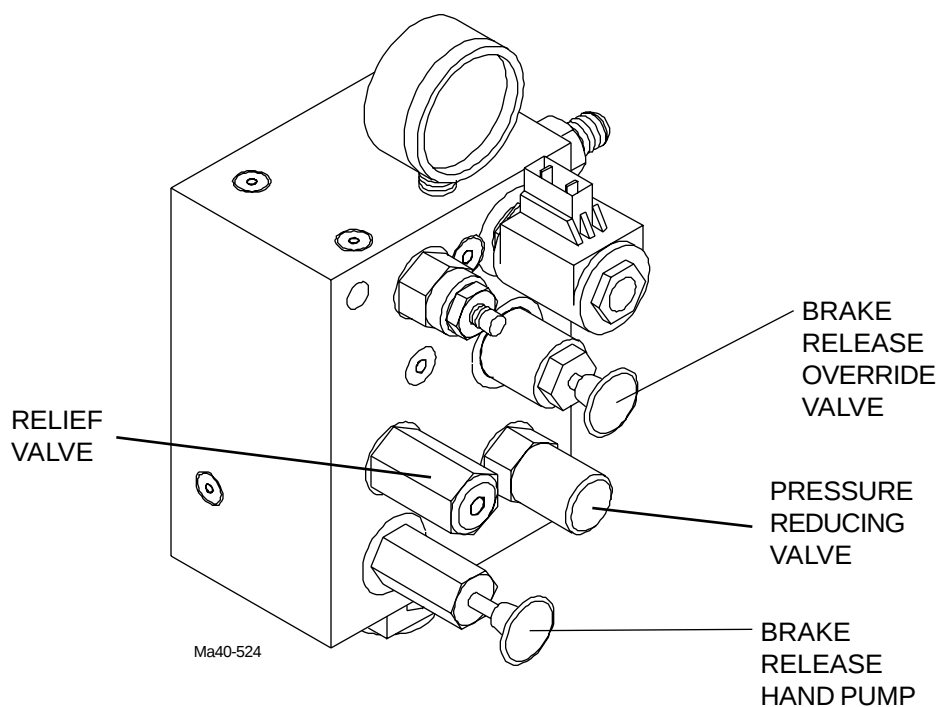


Figure 5-19. Brake System Manifold.

MECHANICAL ADJUSTMENTS

BRAKE ADJUSTMENT PROCEDURES

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

1. Chock the wheels to prevent the work platform from rolling when the brake is released. Remove the thumb screws from the Rear Axle Cover and lift off to expose the rear axle.
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 Hand Pump (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 1.8mm (0.080") to 2.2mm (0.085"). 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. Repeat step 6. 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.

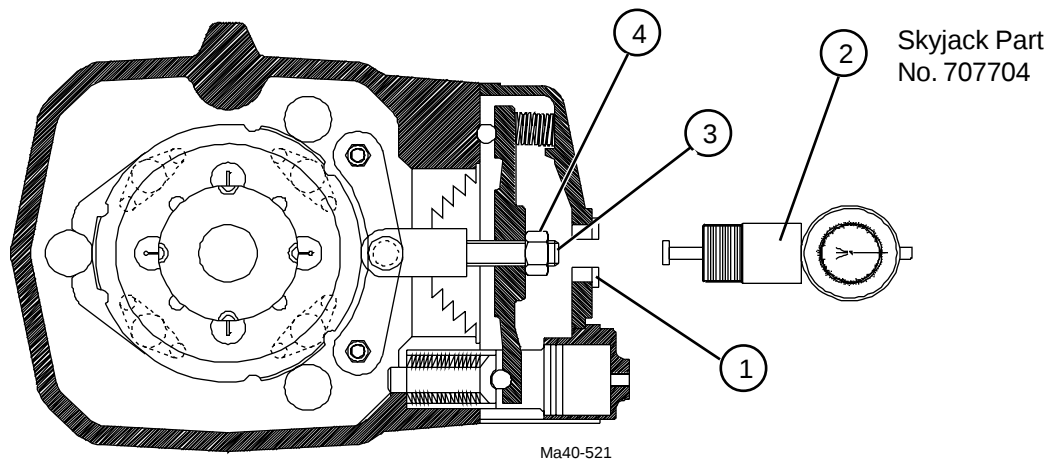


Figure 5-20. Cross Section of Brake Assembly

Boom Wear Pad Clearances

1. Main Boom wear pads = 0" - .010" Clearance.
2. Telescopic Boom wear pads = 0" - 0.010" Clearance.

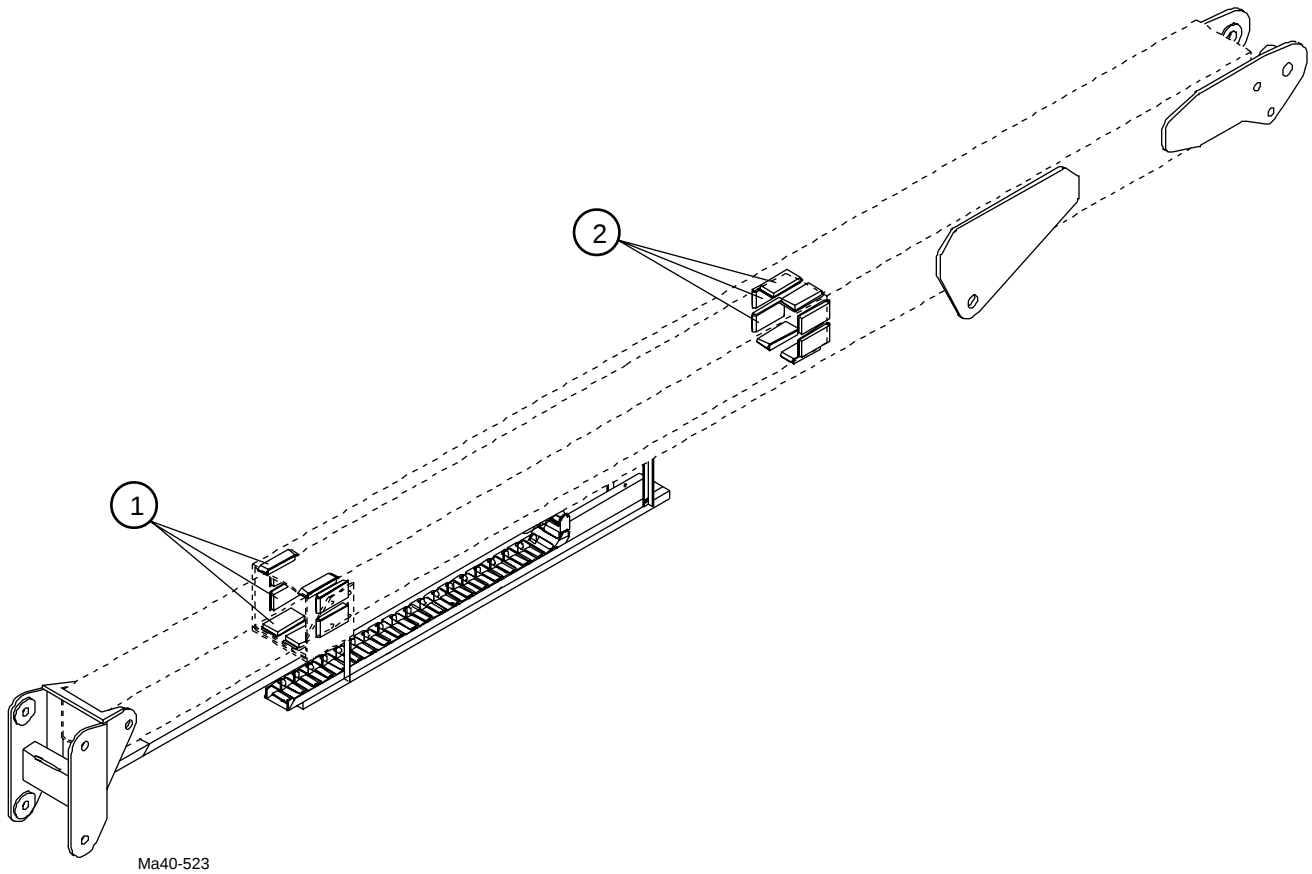
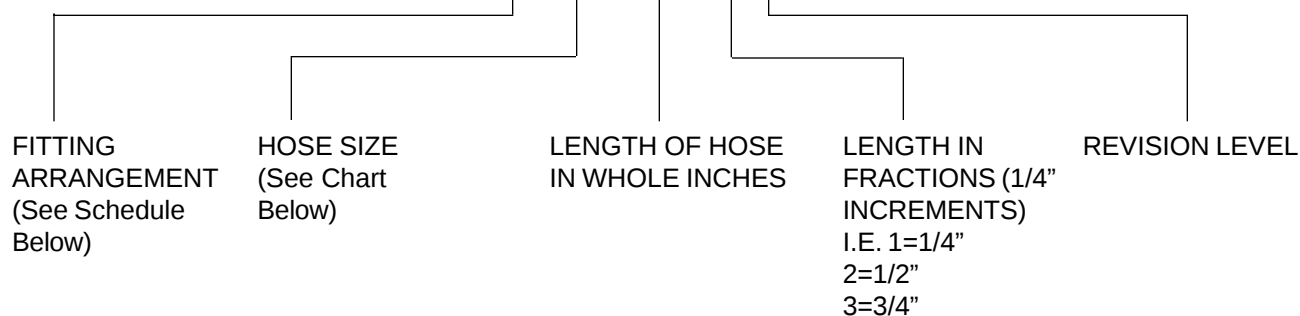


Figure 5-21. Boom Wear Pad Locations.

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

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. The \$ symbol is used where the part number was not available at the time of printing or for some other reason it is requested that you consult the factory before ordering the part.

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!

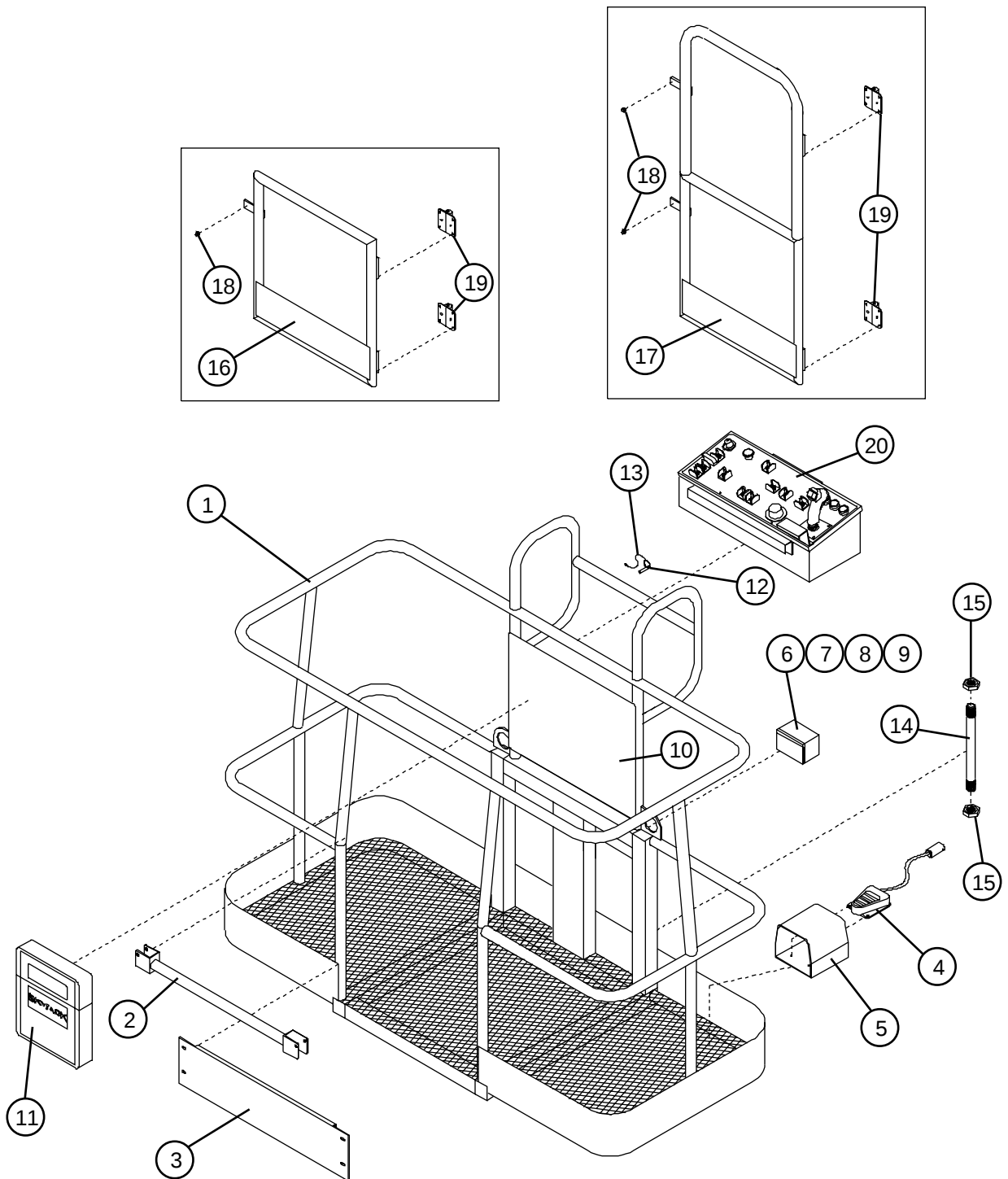
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FIGURE 6-1. PLATFORM ASSEMBLY - 30" x 66"

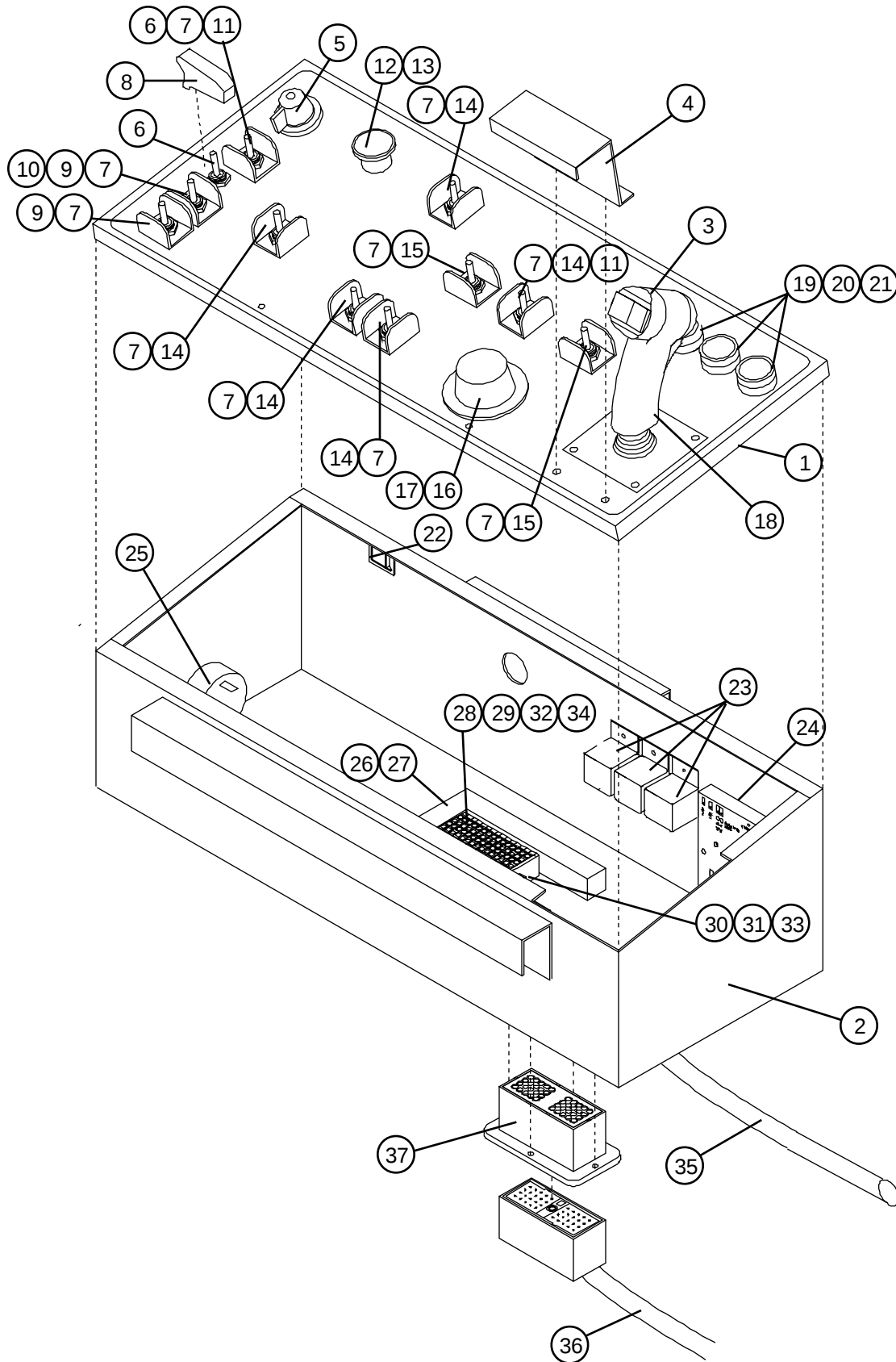


Ma40-600

FIGURE 6-1. PLATFORM ASSEMBLY - 30" x 66"

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
A	701499	PLATFORM ASSEMBLY, (standard)	-
B	701500	PLATFORM ASSEMBLY, (with half gate option)	-
C	703033	PLATFORM ASSEMBLY, (with full gate option)	-
D	701559	PLATFORM ASSEMBLY, Europe (standard)	-
E	701560	PLATFORM ASSEMBLY, Europe (with half gate option)	-
1	704351	• WELDMENT, Platform, A	1
	706793	• WELDMENT, Platform, B	1
	706794	• WELDMENT, Platform, C	1
	704445	• WELDMENT, Platform, D	1
	706795	• WELDMENT, Platform, E	1
	103909	•• BOLT, HHCS 1/2-13x1-1/4" lg.	6
	103470	•• WASHER, Lock 1/2	6
	704101	•• CLAMP, Hose 7/8"	1
	103632	•• SCREW, Self tapping 1/4-14x3/4" lg.	1
	103995	•• WASHER, Flat SAE 1/4	1
2	103125	•• LABEL, Blue/White stripping	184"
	708028	• ENTRY RAIL ASSEMBLY, A, D (S/N 95034 and above.)	1
	708027	•• WELDMENT, Entry rail	1
	103872	•• BOLT, HHCS 3/8x2-1/4	2
	104606	•• NUT, Lock 3/8-16	2
		• ENTRY RAIL ASSEMBLY, A, D (S/N 95033 and below. Replace entire assembly with P/N 708028)	
	700427	•• RAILING, Entry	1
	200427	•• GUIDE, Railing	2
3	101149	•• PIN, Roll 1/4" x 1-1/4" lg.	2
	706142	• KICK PLATE, A	1
	706603	•• BOLT, BHCS 1/4" 20x1/2" SS	4
	700583	•• NUT, Lock 1/4-20	4
4	700520	• FOOT SWITCH ASSEMBLY	1
	700187	•• FOOT SWITCH	1
	103567	•• CONNECTOR, Housing 4 pin male	1
	103569	•• CONNECTOR, Insert 4 pin male	1
5	700188	• SWITCH COVER, Foot	1
	103857	•• BOLT HHCS 1/4-20x1" lg.	2
	103980	•• NUT, 1/4-20	2
	700598	•• WASHER, Fender 1-1/4" O.D. 9/32" I.D.	2
6	104000	•• WASHER, Lock 1/4	2
	109700	• RECEPTACLE 110V. GFCI BOX	1
	112707	•• SCREW, Self tapping #10 24x5/8" lg.	4
	103035	•• STRAIN RELIEF, Metal 90°	1
7	109698	• RECEPTACLE 110V. GFCI, A, B, C	1
8	109699	• RECEPTACLE 110V. Cover Plate, A, B, C	1
9	703737	• COVER 110V. Outlet Blank, D, E	1
10	706843	• INFO/WARNING PLATE	1
	103632	•• SCREW, Self tapping 1/4-14x3/4" lg.	4
	103995	•• WASHER, Flat SAE 1/4	4
11	117293	• MANUAL, Enclosure	1
	706857	•• BOLT, Mach. RD HD 1/4-20x3/4" lg.	4
	700583	•• NUT, Lock 1/4-20	4
	700438	• MANUAL, ANSI A-92.5 (Not shown)	1
12	100509	• PIN, Quick release 3/8" diameter x 2" lg.	1
13	105807	• LANYARD 6"	1
	706169	•• SCREW, Self tapping #10-16X5/8" lg.	1
	707902	• CENTER BOLT, Rotary Actuator	1
15	700570	• NUT, HEX 1"-14	2
16	706802	• WELDMENT, Half Gate, B, E	1
17	706803	• WELDMENT, Full Gate, C	1
18	701027	• BUMPER RUBBER	AR
19	117277	• HINGE SPRING	2
	112495	•• BOLT, HHCS 1/4-20x3/8" lg.	12
20	104000	•• WASHER, Lock 1/4	12
	Ref.	OPERATOR'S CONTROL CONSOLE (For components, refer to Figure 6-2.)	1

FIGURE 6-2. OPERATOR'S CONTROL CONSOLE ASSEMBLY



Ma40-602

FIGURE 6-2. OPERATOR'S CONTROL CONSOLE ASSEMBLY

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
A	704367	OPERATOR'S CONTROL CONSOLE ASSEMBLY (Kubota Dual Fuel without horn option.)	-
B	707948	OPERATOR'S CONTROL CONSOLE ASSEMBLY (Kubota Dual Fuel with horn option.)	-
C	707345	OPERATOR'S CONTROL CONSOLE ASSEMBLY (Diesel without horn option.)	-
D	\$	OPERATOR'S CONTROL CONSOLE ASSEMBLY (Diesel with horn option.)	-
E	707978	OPERATOR'S CONTROL CONSOLE ASSEMBLY (Kubota Dual Fuel - Europe.)	-
F	707876	OPERATOR'S CONTROL CONSOLE ASSEMBLY (Diesel - Europe.)	-
G	704367	OPERATOR'S CONTROL CONSOLE ASSEMBLY (Ford Dual Fuel without horn option.)	-
H	707948	OPERATOR'S CONTROL CONSOLE ASSEMBLY (Ford Dual Fuel with horn option.)	-
I	707978	OPERATOR'S CONTROL CONSOLE ASSEMBLY (Ford Dual Fuel - Europe.)	-
	102921	• DIODE, 6AMP/1000PIV (Not shown)	1
1	704370	• CONTROL BOX LID WELDMENT	1
2	704374	• CONTROL BOX WELDMENT	1
	700481	•• BOLT, Mach. RD HD 1/4-20x1/2" lg.	4
	700583	•• NUT, Lock 1/4-20	4
	700480	•• NUT CLIP #10-24	2
	104698	•• BOLT, Mach. HD #10-32x3/4"	2
	711094	•• SEAL, Closed cell weather 1/8x1"	1
	711095	•• SEAL, Closed cell weather	1
	710266	•• STRAIN RELIEF, 1/2 NPT	1
	703077	•• STRAIN RELIEF 3/4"	1
3	707655	• LABEL, Control box	1
4	700066	• SUPPORT, Wrist	1
	103962	•• BOLT, Mach. HD #10-32x1/2	2
	104185	•• WASHER, Lock #10	2
	104003	•• NUT, Hex #10-32	2
5	701931	• SWITCH, Ignition	1
6	701929	• SWITCH, Toggle SPDT 2 pos. momentary, A, B, C, D, E, F	2
		• SWITCH, Toggle SPDT 2 pos. momentary, G, H, I	1
7	707394	• GUARD, Toggle switch, A, B, C, D, E, F	10
		• GUARD, Toggle switch, G, H, I	9
8	701927	• GUARD, Toggle red bottom	1
9	701930	• SWITCH, Toggle SPDT 2 pos. maintained	2
10	702262	• PLUG, Knockout 1/2", C, D, F	1
11	702262	• PLUG, Knockout 1/2", G, H, I	1
12	103281	• SWITCH, Contact base N.C.	1
13	102769	• SWITCH HEAD, Emergency stop	1
14	702662	• SWITCH, Toggle DPDT 3 pos. momentary	5
15	102853	• SWITCH, Toggle SPDT 3 pos. momentary	2
16	707177	• POTENTIOMETER, w/resistor board	1
17	707253	• KNOB	1
		Parts list continued on Page 9.	

FIGURE 6-2. OPERATOR'S CONTROL CONSOLE ASSEMBLY

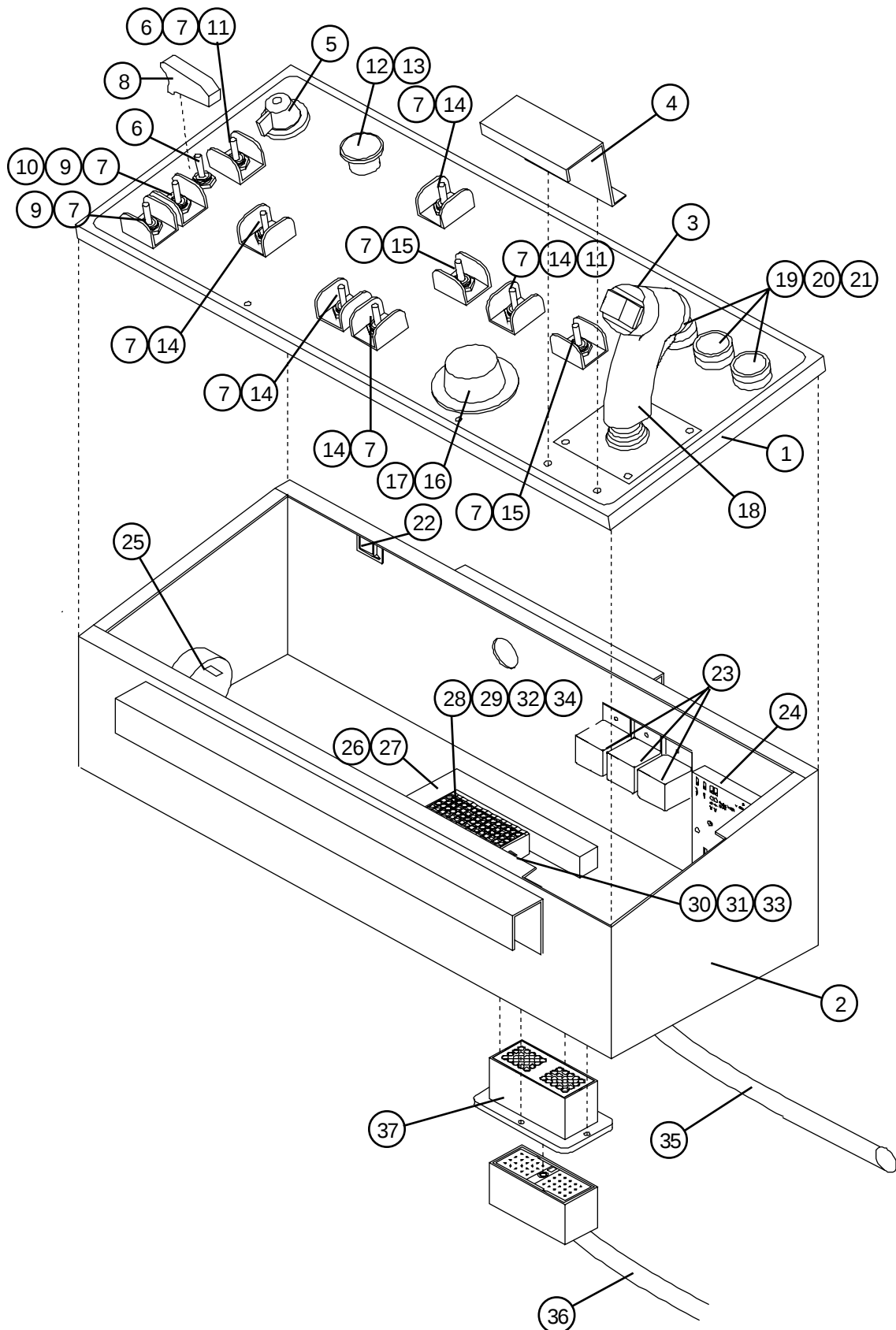
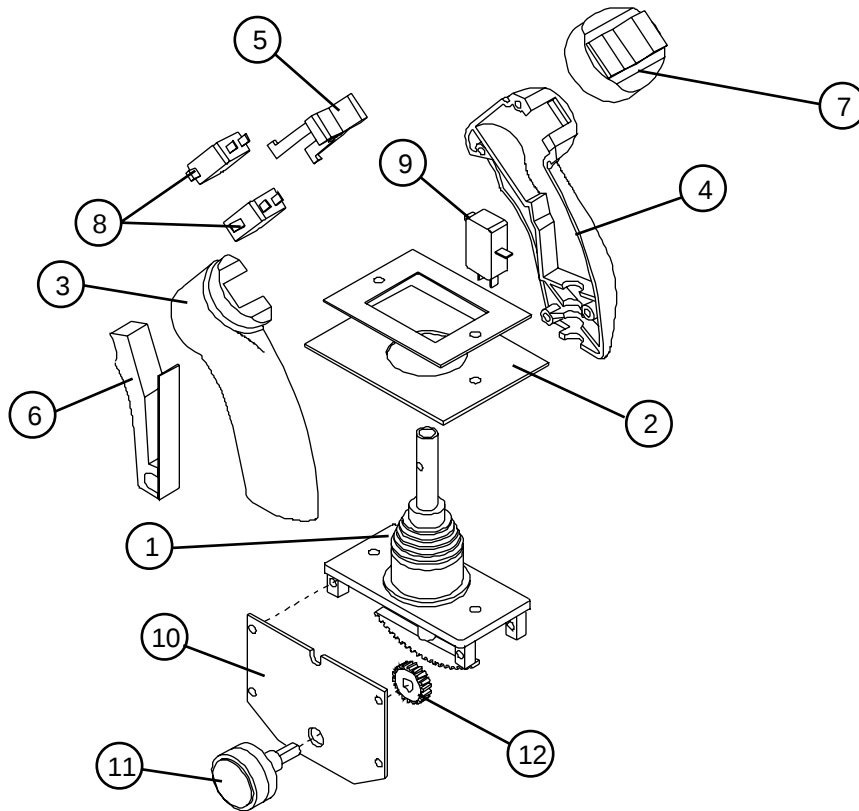


FIGURE 6-2. OPERATOR'S CONTROL CONSOLE ASSEMBLY

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
18	704330	Parts list continued from Page 7. • JOYSTICK, Assembly drive, A, C, G (For components refer to Figure 6-3.)	1
	707658	• JOYSTICK, Assembly drive, B, D, E, F, H, I (For components refer to Figure 6-4.)	1
	103962	• • BOLT, Mach. HD #10-32x1/2" lg.	4
	104185	• • WASHER, Lock #10	4
	104003	• • NUT, Hex #10-32	4
19	102671	• LIGHT BASE	3
20	103202	• LIGHT HEAD	3
21	703185	• BULB, Replacement #1893	3
22	701523	• CABLE TIE MOUNT, Self adhesive	2
23	701943	• RELAY, 12VDC sealed	3
	103962	• • BOLT, Mach. HD #10-32x1/2	3
	104003	• • NUT, Hex #10x32	3
	104185	• • WASHER, Lock #10	3
24	704332	• CONTROL BOARD, Boom function	1
	103985	• • NUT, Hex #6-32	4
	103955	• • BOLT, Mach. HD #6-32x3/4 lg.	4
25	103057	• BEEPER 4-28VDC	1
26	710143	• WIRE DUCT 1x2	1
	710142	• WIRE DUCT	1
	710446	• WIRE DUCT	1
27	710144	• WIRE DUCT COVER	1
	710145	• WIRE DUCT COVER	1
	710447	• WIRE DUCT COVER	1
28	707143	• TERMINAL BLOCK, Through	16
	703031	• • BOLT, Threadsert #10-32	2
	103962	• • BOLT, Mach. HD #10-32 x 1/2	2
	104185	• • WASHER, Lock #10	2
	104694	• • WASHER, Flat SAE #10	2
29	707144	• TERMINAL BLOCK, Ground	2
30	707146	• TERMINAL BLOCK, End plate	1
31	707147	• TERMINAL BLOCK, End stop	2
32	707148	• TERMINAL BLOCK, Adj. jumper	1
33	710140	• TERMINAL BLOCK, DIN 35 Rail	1
34	707145	• DIODE, Terminal block	2
35	(Ref.)	• CABLE ASSEMBLY, Foot switch	1
	705441	• • HARNESS, Foot petal assembly	1
36	(Ref.)	• CABLE ASSEMBLY, Main control	1
	707874	• • HOUSING, Connector	1
	705255	• • SOCKET, Contact	36
	707846	• • BOOT, Connector	1
	704677	• • CABLE, 18/36 Control	660"
37	707875	• RECEPTACLE, 40 Pin connector	1
	707847	• • GASKET, Connector	1
	705258	• • PIN, Contact	36
	103958	• • BOLT, Mach. HD #8-32 x .75" lg.	4
	112249	• • WASHER, Lock #8	4
	103986	• • NUT, Hex #8-32	4
	707822	• • TOOL, Pin removal	AR
	707823	• • TOOL, Crimp	AR

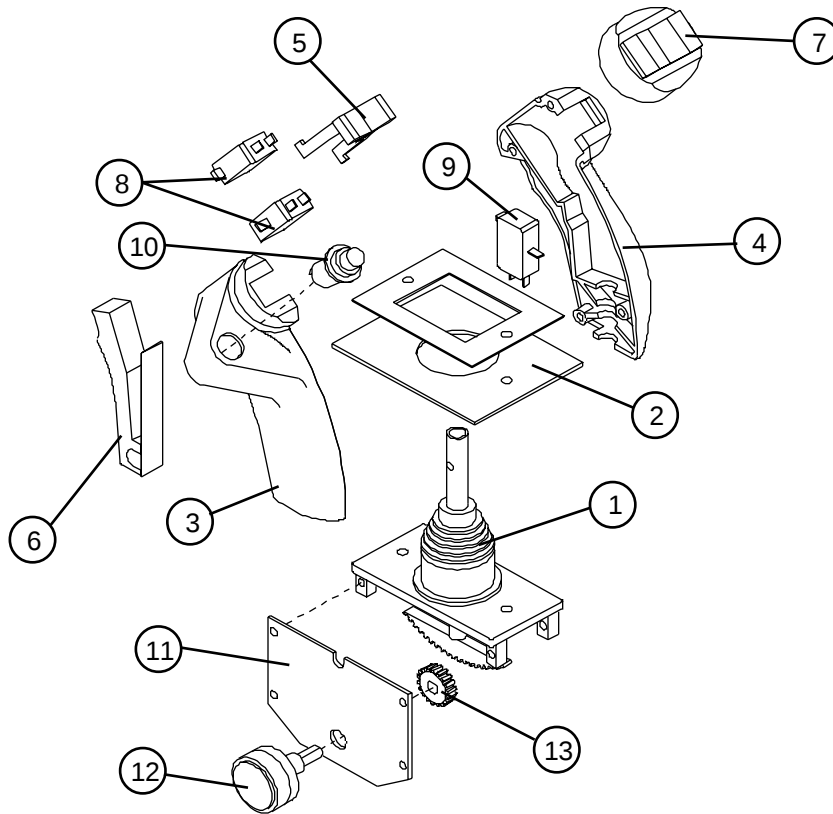
FIGURE 6-3. DRIVE/STEER CONTROLLER ASSEMBLY
(Machines without factory installed horn option.)



Ma40-648

Index No.	Skyjack Part No.	Description							Units per Assy.
		1	2	3	4	5	6	7	
	704330	CONTROLLER ASSEMBLY, Drive/steer							-
1	700978	• BOOT							1
2	708995	• MOUNTING PLATE							1
3	700953	• LEFT GRIP							1
4	700954	• RIGHT GRIP							1
5	105734	• SWITCH, Actuator							1
6	700955	• TRIGGER							1
7	105735	• CAP							1
8	105733	• SWITCH, Rocker							2
9	105733	• SWITCH, Trigger							1
10	708996	• POTENTIOMETER, Mounting plate and switch							1
11	709385	• POTENTIOMETER							1
12	708998	• PINION GEAR							1
13	709386	• SWITCH, w/Roller Actuator (Not Shown)							1
14	709387	• CAM, for Neutral Switch (Not Shown)							1
	709000	• GRIP ASSEMBLY, No's 3-9							-
	709388	• ELECTRICAL ASSEMBLY, No's 10-14							-

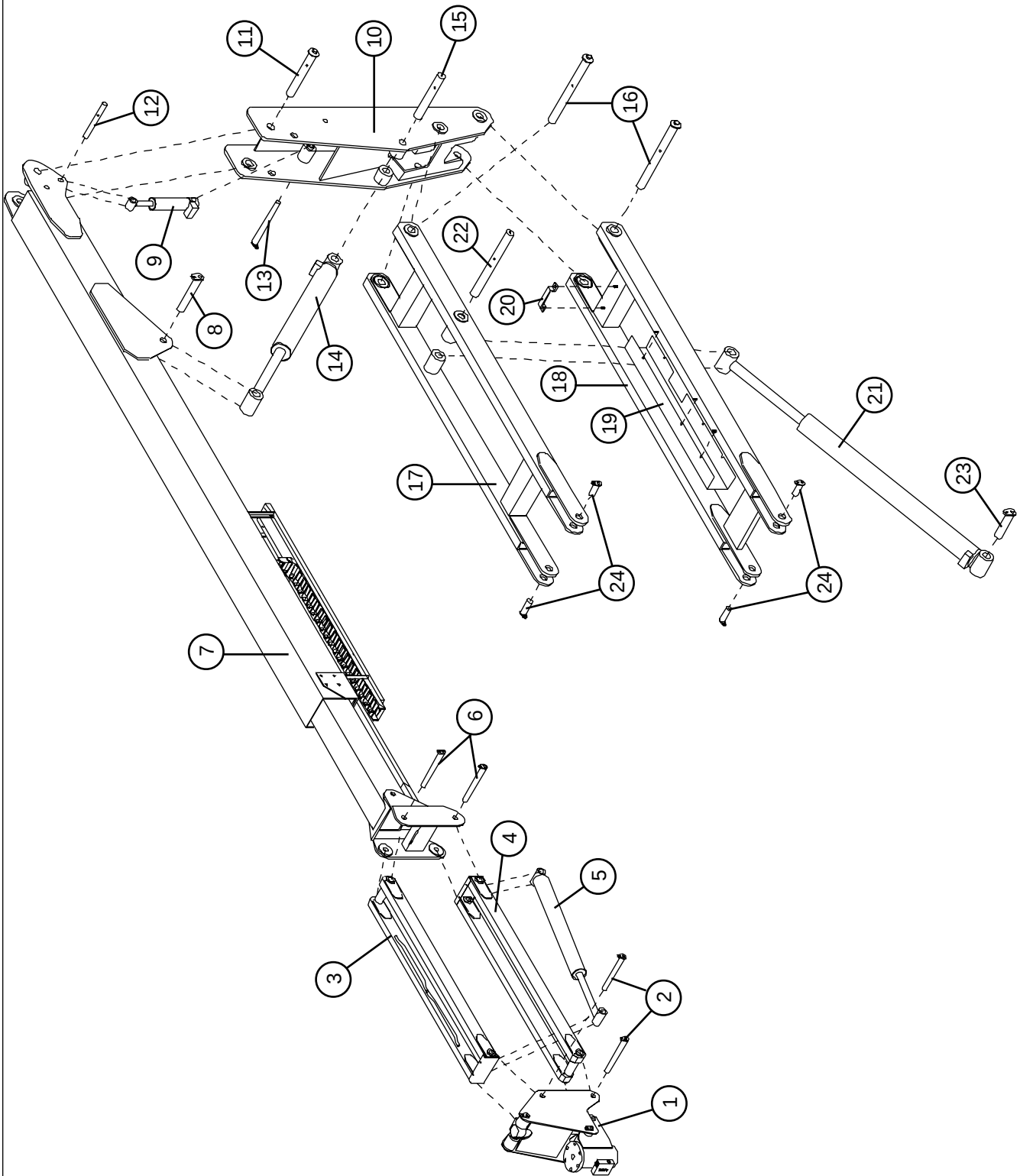
FIGURE 6-4. DRIVE/STEER CONTROLLER ASSEMBLY
(Machines with factory installed horn option.)



Ma40-649

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
	707658	CONTROLLER ASSEMBLY, Drive/steer	-
1	700978	• BOOT	1
2	708995	• MOUNTING PLATE	1
3	701239	• LEFT GRIP	1
4	709391	• RIGHT GRIP	1
5	105734	• SWITCH, Actuator	1
6	700955	• TRIGGER	1
7	105735	• CAP	1
8	105733	• SWITCH, Rocker	2
9	105733	• SWITCH, Trigger	1
10	701240	• SWITCH, Horn button	1
11	708996	• POTENTIOMETER, Mounting plate and switch	1
12	709385	• POTENTIOMETER	1
13	708998	• PINION GEAR	1
14	709386	• SWITCH, w/Roller Actuator (Not Shown)	1
15	709387	• CAM, for Neutral Switch (Not Shown)	1
	709390	• GRIP ASSEMBLY, No's 3-10	-
	709388	• ELECTRICAL ASSEMBLY, No's 11-15	-

FIGURE 6-5. BOOM ASSEMBLY

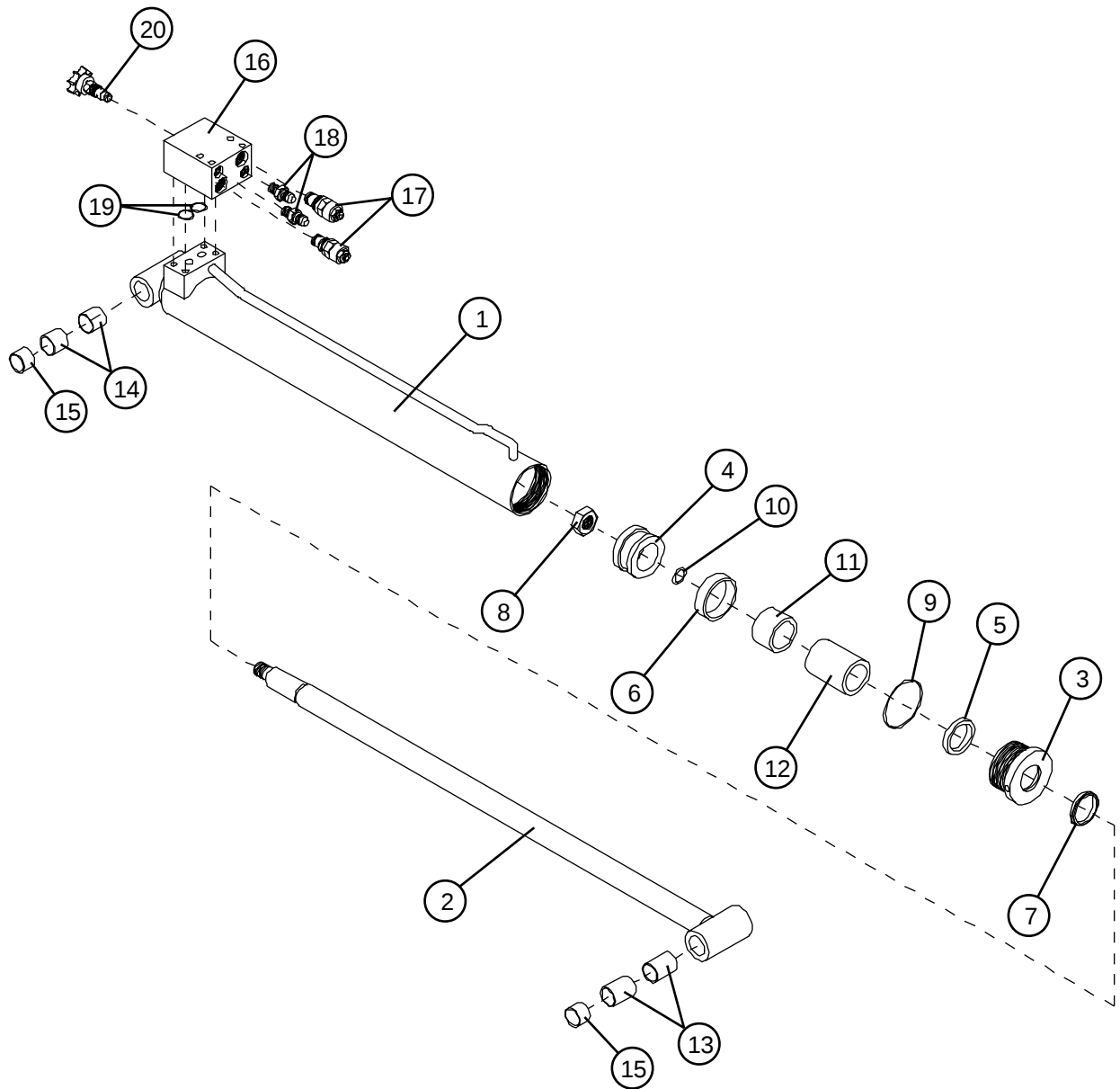


Ma40-601

FIGURE 6-5. BOOM ASSEMBLY

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	706017	ACTUATOR ASSEMBLY, Rotary (For components refer to Figure 6-10.)	1
2	700386	PIN, Jib Actuator	2
	103887	• BOLT, HHCS 5/16-18 x 3/4" lg.	1
	103404	• WASHER, Lock 5/16	1
3	707178	PARALLEL ASSEMBLY, Jib upper	1
	100309	• BUSHING, 1" x 1-1/8" x 1" lg.	6
4	707179	PARALLEL ASSEMBLY, Jib lower	1
	100309	• BUSHING, 1" x 1-1/8" x 1" lg.	6
	102972	• HOSE CLAMP, G8 Double	2
	103995	• WASHER, Flat SAE 1/4	2
	103632	• SCREW, Self tapping 1/4-14 x 3/4" lg.	2
5	706003	CYLINDER/MANIFOLD ASSEMBLY, Jib lift (For components refer to Figure 6-6.)	1
6	700384	PIN, Jib parallel top	2
	103887	• BOLT, HHCS 5/16-18 x 3/4" lg.	1
	103404	• WASHER, Lock 5/16	1
7	704983	MAIN BOOM ASSEMBLY (For components refer to Figure 6-12.)	1
	701805	RUBBER WEAR STRIP (Not shown)	7
8	700362	PIN, Lift Cylinder top	1
	103887	• BOLT, HHCS 5/16-18 x 3/4" lg.	1
	103404	• WASHER, Lock 5/16	1
9	700333	CYLINDER ASSEMBLY, Master (For components refer to Figure 6-7.)	1
10	700966	KNUCKLE ASSEMBLY	1
	100904	• BUSHING, 1-1/2" x 1-5/8" x 1" lg.	2
	100309	• BUSHING, 1" x 1-1/8" x 1" lg.	4
	103216	• BUSHING, 1-1/2" x 1-5/8" x 1-1/2" lg.	2
11	700364	PIN, Upper knuckle	1
	103915	• BOLT, HHCS 3/8-16 x 3-1/2" lg.	1
	104606	• NUT, Lock 3/8-16	1
	706872	• BOLT, HHCS 1/2-13 x 1-1/4" lg.	2
	700425	• WASHER, Stop 2-1/4 DIA x 3/16"	2
12	700366	PIN, Master cylinder top	1
	103873	• BOLT, HHCS 3/8-16 x 2-1/2" lg.	1
	104606	• NUT, Lock 3/8-16	1
13	700430	PIN, Master cylinder bottom	1
	103887	• BOLT, HHCS 5/16-18 x 3/4" lg.	1
	103404	• WASHER, Lock 5/16	1
14	706000	CYLINDER ASSEMBLY, Lift (For components refer to Figure 6-8.)	1
15	711316	PIN, Lift cylinder bottom	1
	706872	• BOLT, HHCS 1/2-13 x 1-1/4" lg.	1
	700425	• WASHER, Stop 2-1/4 DIA x 3/16"	1
16	709448	PIN, Upper parallel	2
	700425	• WASHER, Stop 2-1/4 DIA x 3/16"	2
	709446	• SPACER, Pin	1
	700342	WASHER, Bronze 2-1/2D. x 1-1/2I.D. (Not shown)	2
	706872	• BOLT, HHCS 1/2-13 x 1-1/4" lg.	2
17	701102	PARALLEL UPPER ASSEMBLY, Riser	1
	100904	• BUSHING, 1-1/2" x 1-5/8" x 1" lg.	2
	103216	• BUSHING, 1-1/2" x 1-5/8" x 1-1/2" lg.	2
18	700964	PARALLEL LOWER ASSEMBLY, Riser	1
	100904	• BUSHING, 1-1/2" x 1-5/8" x 1" lg.	2
	103216	• BUSHING, 1-1/2" x 1-5/8" x 1-1/2" lg.	2
19	700994	HOSE COVER, Riser	1
20	700327	HOSE STRAP, Riser	1
21	704999	CYLINDER ASSEMBLY, Riser (For components refer to Figure 6-9.)	1
22	700347	PIN, Riser cylinder upper	1
	103915	• BOLT, HHCS 3/8-16 x 3-1/2" lg.	1
	104606	• NUT, Lock 3/8-16	1
23	704910	PIN, Riser cylinder lower	1
	103887	• BOLT, HHCS 5/16-18 x 3/4" lg.	1
	103404	• WASHER, Lock 5/16	1
24	700344	PIN, Turret lower parallel	4
	103887	• BOLT, HHCS 5/16-18 x 3/4" lg.	1
	103404	• WASHER, Lock 5/16	1

FIGURE 6-6. JIB LIFT CYLINDER ASSEMBLY



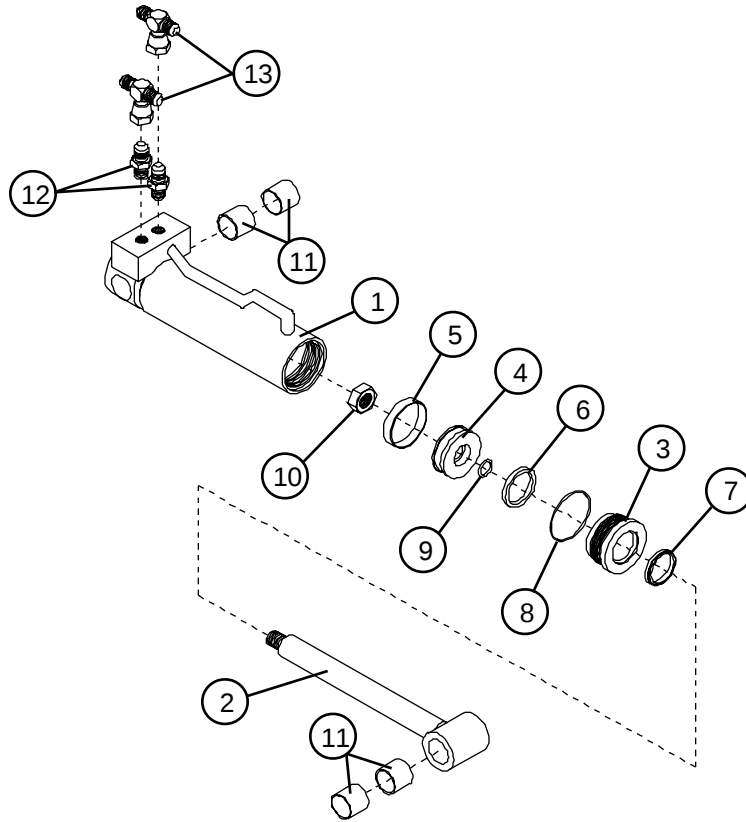
Ma40-604

FIGURE 6-6. JIB LIFT CYLINDER ASSEMBLY

Index No.	Skyjack Part No.	Description							Units per Assy.
		1	2	3	4	5	6	7	
	708655	CYLINDER ASSEMBLY, Jib lift							-
1	700245	• WELDMENT, Cylinder barrel							1
2	700244	• WELDMENT, Cylinder rod							1
3	700243	• GLAND, Cylinder							1
4	700242	• PISTON, Cylinder							1
*5	700576	• SEAL, Rod							1
*6	700585	• SEAL, Piston							1
*7	700578	• WIPER, Rod							1
8	700575	• NUT, Lock 3/4-10							1
*9	701965	• O-RING, Gland							1
*10	701634	• O-RING, Piston							1
11	700449	• SPACER, Cylinder 1-1/8" x 1-3/4" x 1-5/16" lg.							1
12	708650	• SPACER, Cylinder 1-1/4" x 1-3/4" x 2-3/4" lg.							1
13	100695	• BUSHING, 1" x 1-1/8" x 1-1/2" lg.							2
14	100309	• BUSHING, 1" x 1-1/8" x 1" lg.							2
15	100249	• BUSHING, 1" x 1-1/8" x 3/4" lg.							2
16	701029	VALVE BLOCK, Jib cylinder							1
	103884	• BOLT, HHCS 5/16-18 x 2-1/2" lg.							4
	103404	• WASHER, Lock 5/16							4
17	700568	VALVE, Counterbalance							2
18	701956	FITTING, Connector #6orb-#4							2
19	701635	O-RING, Valve block							2
20	103136	VALVE, Manual lowering							1
	700456	KIT, Seal repair							AR
	706521	TOOL, Cylinder assembly 2-1/2"							-
		* Part of Seal Repair Kit.							

NOTES

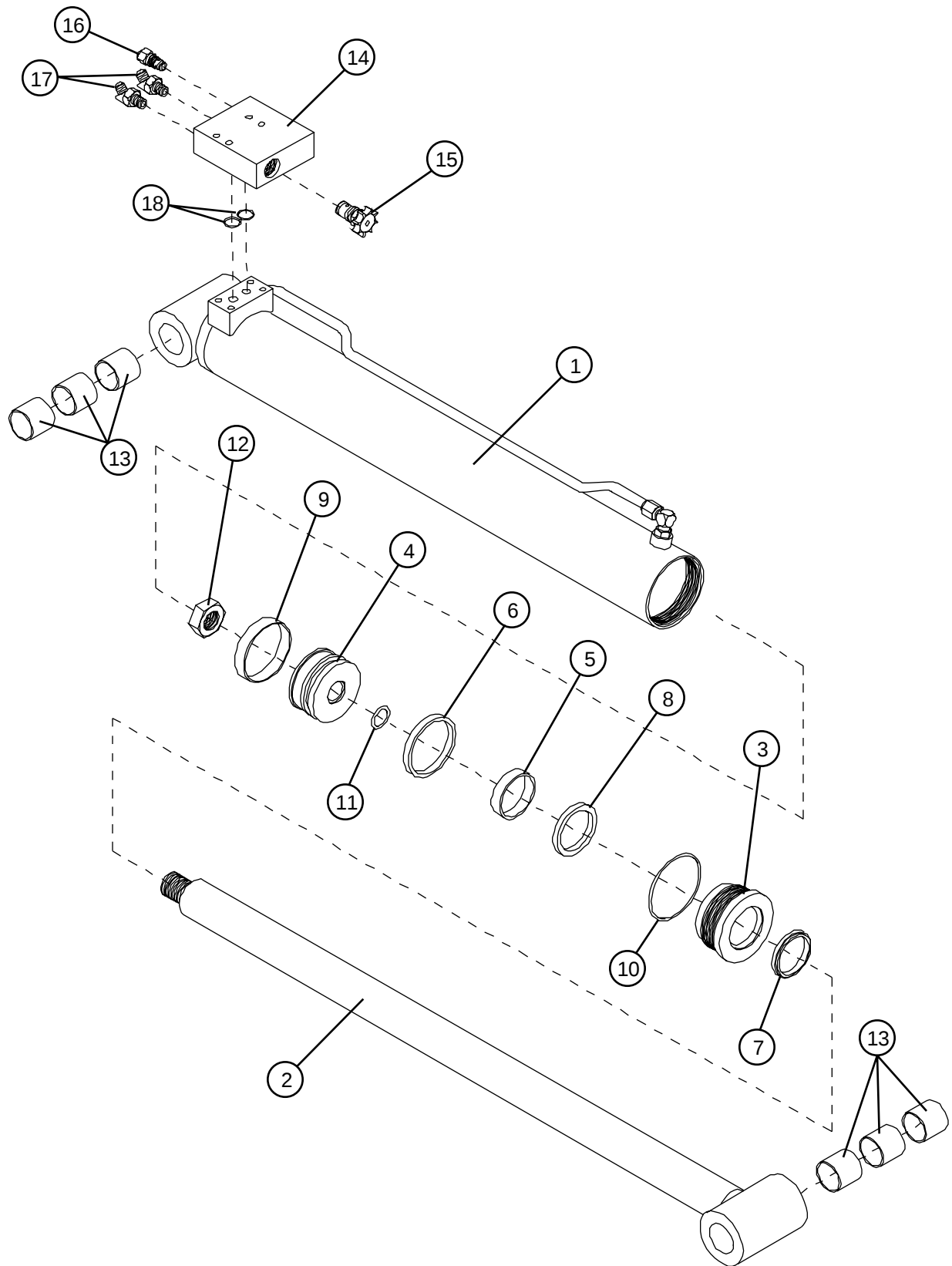
FIGURE 6-7. PLATFORM LEVELING MASTER CYLINDER ASSEMBLY



Ma40-605

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
	700333	CYLINDER ASSEMBLY, Platform leveling master	-
1	700334	• WELDMENT, Cylinder barrel	1
2	700337	• WELDMENT, Cylinder rod	1
3	700340	• GLAND, Cylinder	1
4	700341	• PISTON, Cylinder	1
*5	107935	• SEAL, Piston	1
*6	108798	• SEAL, Gland	1
*7	106449	• WIPER, Rod	1
*8	701964	• O-RING, Gland	1
*9	701633	• O-RING, Piston	1
10	103830	• NUT, Lock 5/8-11	1
11	100309	• BUSHING, 1" x 1-1/4" x 1" lg.	4
12	103069	• FITTING, Connector #6orb-#6	2
13	703223	FITTING, Tee #6swv-#4-#4	2
	700454	KIT, Seal repair	AR
	706522	TOOL, Cylinder assembly 2"	-
		* Part of Seal Repair.	

FIGURE 6-8. BOOM LIFT CYLINDER ASSEMBLY

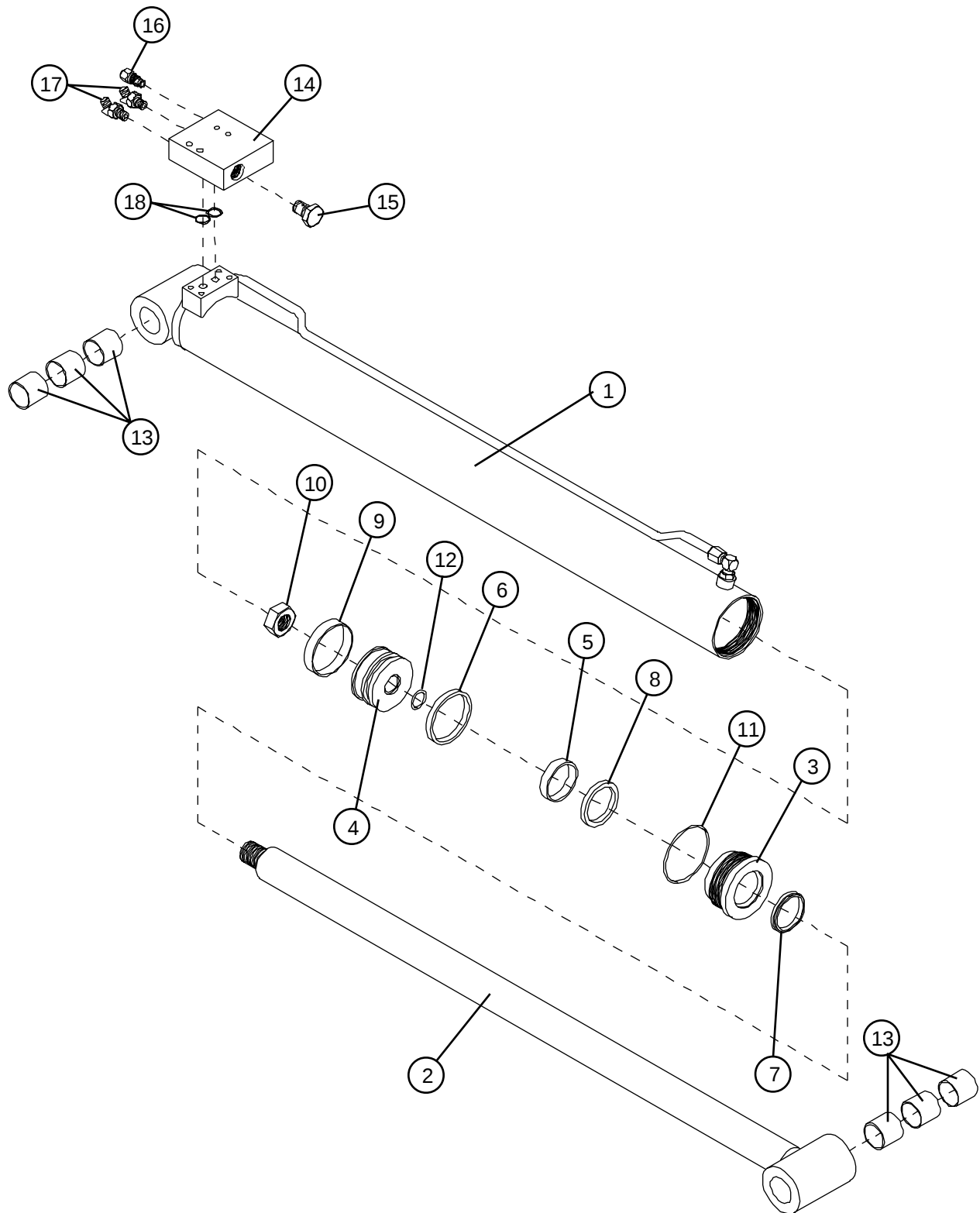


Ma40-606

FIGURE 6-8. BOOM LIFT CYLINDER ASSEMBLY

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
	700989	CYLINDER ASSEMBLY, Boom lift	-
1	700141	• WELDMENT, Cylinder barrel	1
2	700147	• WELDMENT, Cylinder rod	1
3	700329	• GLAND, Cylinder	1
4	700330	• PISTON, Cylinder	1
*5	700571	• SEAL, Rod	1
*6	106225	• SEAL, Piston	1
*7	700573	• WIPER, Rod	1
*8	700574	• WEAR RING, Gland	1
*9	106220	• WEAR RING, Piston	1
*10	701966	• 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" x 1-11/16" x 1-1/2" lg.	6
14	700043	VALVE BLOCK, Boom lift cylinder	1
	103865	• BOLT, HHCS 5/16-18 x 2" lg.	4
	103404	• WASHER, Lock 5/16	4
15	103136	VALVE, Manual lowering	1
16	700568	VALVE, Counterbalance	1
17	707234	FITTING, Elbow 45° #6orb-#4	2
18	701635	O-RING, Valve block	2
	700452	KIT, Seal repair	AR
	703872	TOOL, Cylinder assembly 3-1/2"	-
		* Part of Seal Repair Kit.	

FIGURE 6-9. RISER LIFT CYLINDER ASSEMBLY

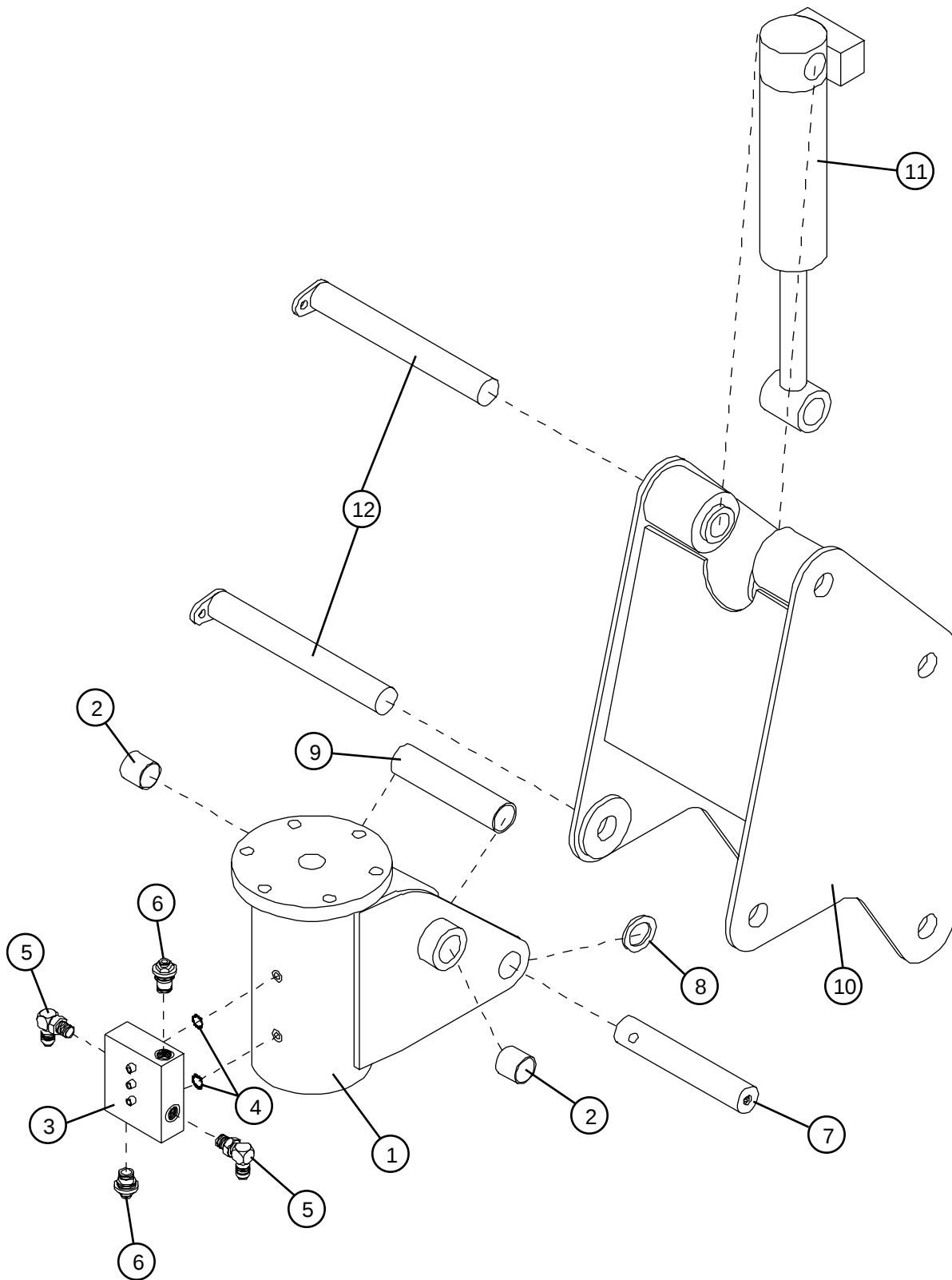


Ma40-607

FIGURE 6-9. RISER LIFT CYLINDER ASSEMBLY

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
	700328	CYLINDER ASSEMBLY, Riser lift	-
1	700135	• WELDMENT, Cylinder barrel	1
2	700145	• WELDMENT, Cylinder rod	1
3	700329	• GLAND, Cylinder	1
4	700330	• PISTON, Cylinder	1
*5	700571	• SEAL, Rod	1
*6	106225	• SEAL, Piston	1
*7	700573	• WIPER, Rod	1
*8	700574	• WEAR RING, Gland	1
*9	106220	• WEAR RING, Piston	1
10	106230	• NUT, Lock 1-1/4-12	1
*11	701966	• O-RING, Gland	1
*12	701639	• O-RING, Piston	1
13	103216	• BUSHING, 1-1/2" x 1-11/16" x 1-1/2" lg.	6
14	700043	VALVE BLOCK, Riser lift cylinder	1
	103865	• BOLT, HHCS 5/16-18 x 2" lg.	4
	103404	• WASHER, Lock 5/16"	4
15	707694	PLUG, Cavity C10-2	1
16	700568	VALVE, Counterbalance	1
17	707234	FITTING, Elbow 45° #6orb-#4	2
18	701635	O-RING, Valve block	2
	700452	KIT, Seal repair	AR
	703872	TOOL, Cylinder assembly 3-1/2"	-
		* Part of Seal Repair Kit.	

FIGURE 6-10. ROTARY ACTUATOR ASSEMBLY



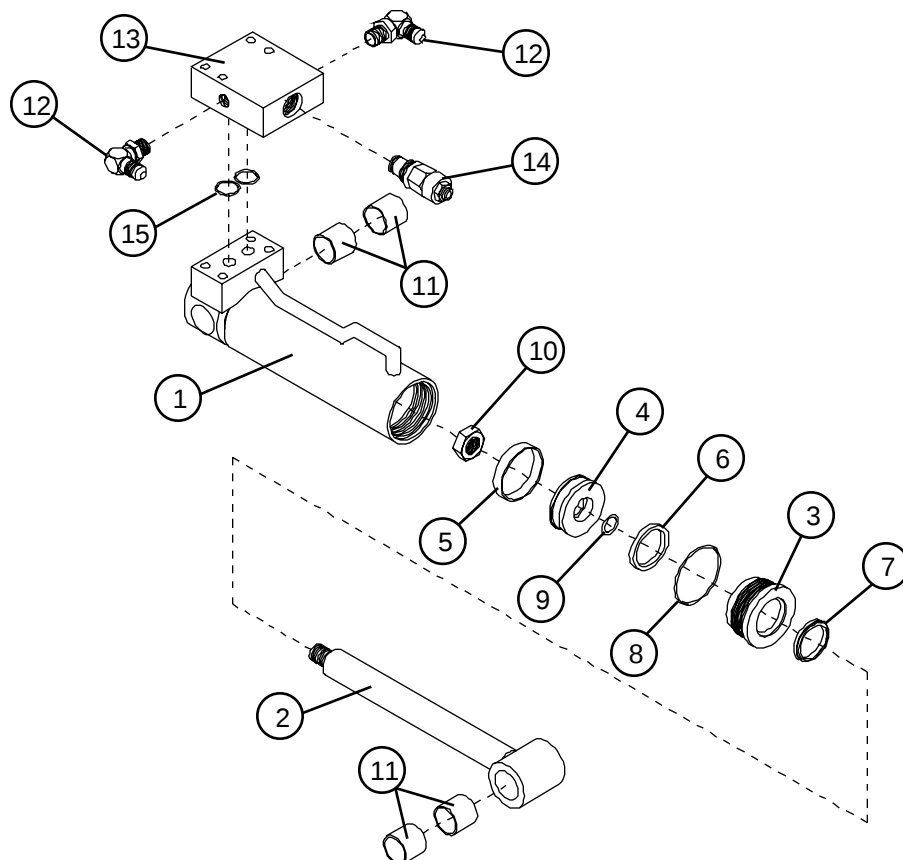
Ma40-608

FIGURE 6-10. ROTARY ACTUATOR ASSEMBLY

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	706017	ACTUATOR ASSEMBLY, Rotary	-
	701498	• ACTUATOR ROTARY, Keyed	1
	701875	•• KIT, Seal repair	AR
	103024	•• HOSE CLAMP, G8-single	2
	104000	•• WASHER, Lock 1/4	1
	103632	•• SCREW, Self tapping 1/4-14x3/4" lg.	1
2	100309	• BUSHING 16DU16	2
3	700390	• MANIFOLD, Rotary Actuator	1
	709835	•• BOLT, HHCS 1/4-20x1-5/8" lg.	3
4	701487	• SEAL, O-Ring 2-012	2
5	701850	• FITTING, #4orb-#4	2
6	700568	• VALVE, Counterbalance	2
7	700432	• PIN, Slave cylinder	1
	103873	•• Bolt, HHCS 3/8-16x2-1/2 lg.	1
	104606	•• NUT, Lock 3/8-16	1
8	700376	• WASHER, Bronze 1-3/4" OD x 1" ID	1
9	700434	• SPACER, Actuator pin	1
10	700375	• WELDMENT, Actuator bracket	1
	704101	•• HOSE CLAMP, 7/8"	1
	104000	•• WASHER, Lock 1/4	1
	103632	•• SCREW, Self tapping 1/4-14x3/4" lg.	1
11	706002	• CYLINDER ASSEMBLY, Slave (For components refer to Figure 6-11.)	1
12	700386	• PIN, Jib Actuator bracket	2
	103887	•• BOLT, HHCS 5/16-18x3/4" lg.	1
	103404	•• WASHER, Lock 5/16	1

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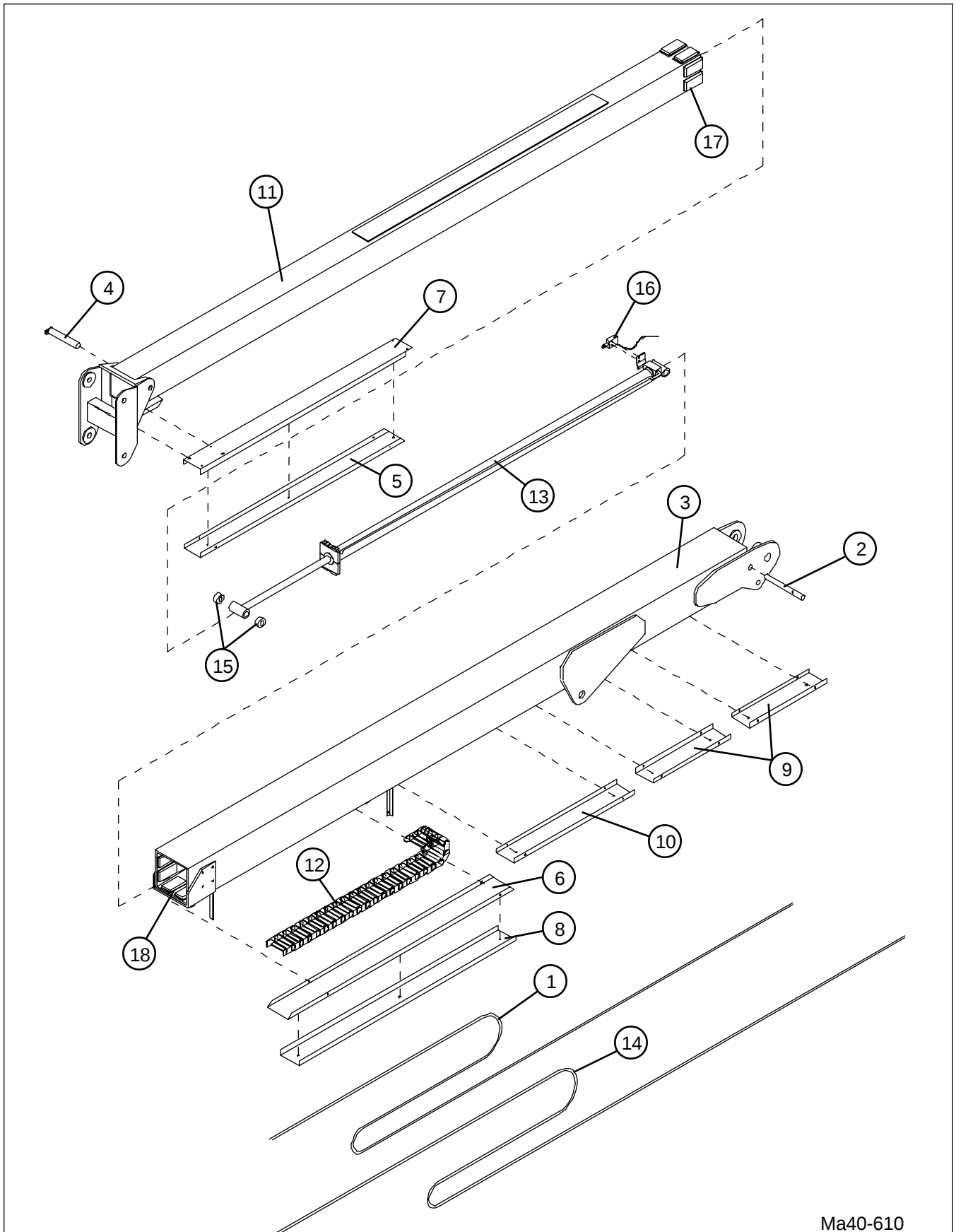
FIGURE 6-11. PLATFORM LEVELING SLAVE CYLINDER ASSEMBLY



Ma40-609

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
	700388	CYLINDER ASSEMBLY, Platform leveling slave	-
1	700389	• WELDMENT, Cylinder barrel	1
2	700600	• WELDMENT, Cylinder rod	1
3	700340	• GLAND, Cylinder	1
4	700341	• PISTON, Cylinder	1
*5	107935	• SEAL, Piston	1
*6	108798	• SEAL, Gland	1
*7	106449	• WIPER, Rod	1
*8	701964	• O-RING, Gland	1
*9	701633	• O-RING, Piston	1
10	103830	• NUT, Lock 5/8-11	1
11	100309	• BUSHING, 1" x 1-1/8" x 1" lg.	4
12	701999	FITTING, Elbow 90° #6orb-#4	2
13	700040	VALVE BLOCK, Slave cylinder	1
	103885	• BOLT, HHCS 5/16-18 x 1.75 lg.	4
	103404	• WASHER, Lock 5/16"	4
14	700568	VALVE, Counterbalance	1
15	701635	O-RING, Valve block	2
	700454	KIT, Seal repair	AR
	706522	TOOL, Cylinder assembly 2"	-
		* Part of Seal Repair Kit.	

FIGURE 6-12. BOOM ASSEMBLY (Main and Telescopic Section)

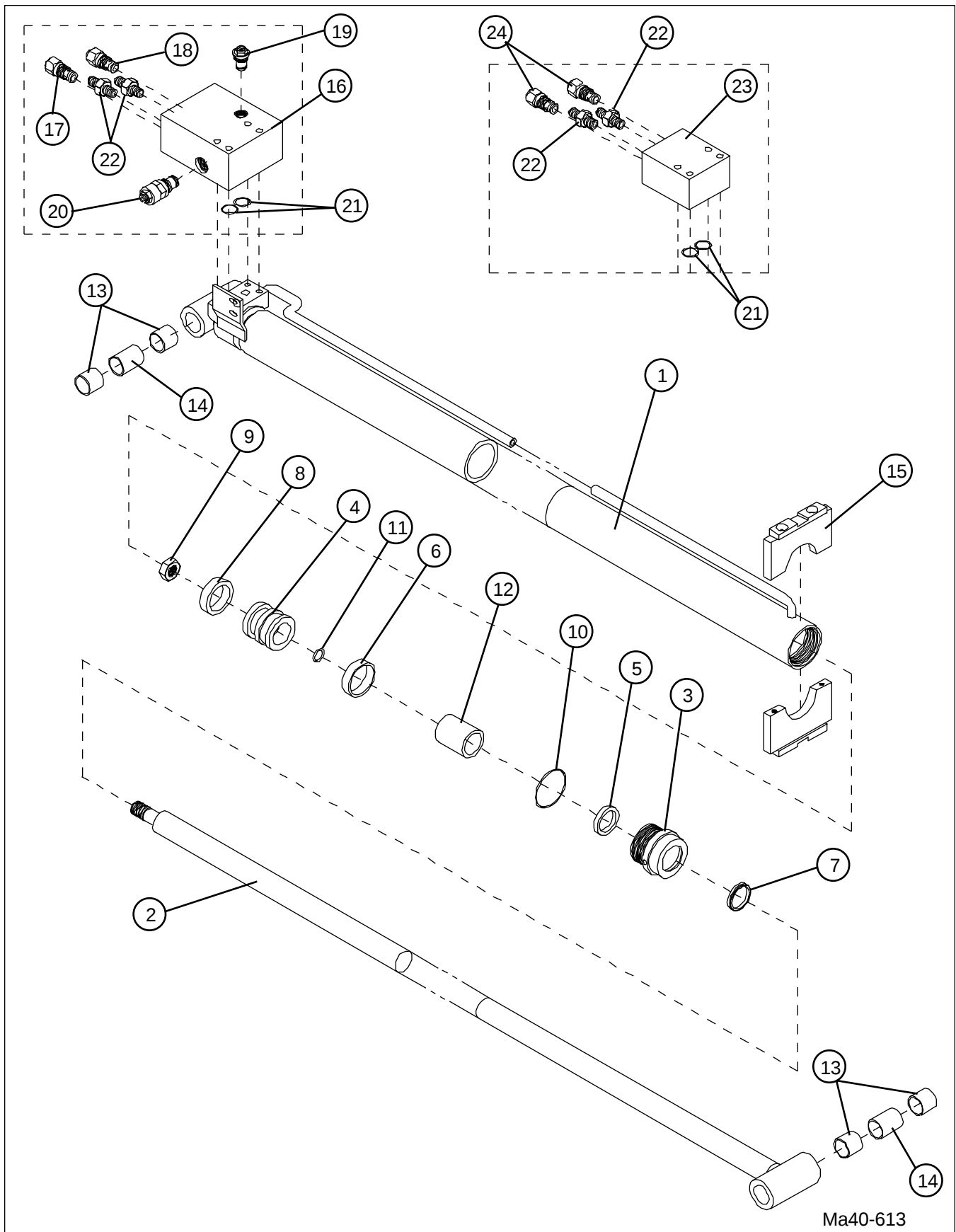


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FIGURE 6-12. BOOM ASSEMBLY (Main and Telescopic Section)

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	704983	MAIN BOOM ASSEMBLY	-
2	704677	• CABLE, 36 Conductor control	660"
3	700367	• PIN, Telescopic Cylinder - Barrel end	1
	700781	•• BOLT, HHCS 5/16-18 x 3/8" lg.	1
	103984	•• NUT, Lock 5/16-18	1
4	704457	• MAIN BOOM WELDMENT	1
5	700368	• PIN, Telescopic cylinder - rear	1
	700781	•• BOLT, HHCS 5/16-18 x 3/8" lg.	1
	103404	•• WASHER, Lock 5/16	1
6	706160	• TRACK SUPPORT, Outer boom	1
7	704940	• TRACK SUPPORT WELDMENT, Lower	1
	700584	•• BOLT, BHCS 1/4-20 x 1/2" lg.	4
	700583	•• NUT, Lock 1/4-20	4
	103404	•• WASHER, Lock 5/16	4
	700583	•• NUT, Lock 1/4-20	3
8	704738	• BOOM TRACK BRACKET WELDMENT, Outer	1
	700583	•• NUT, Lock 1/4-20	3
	700584	•• BOLT, BHCS 1/4-20 x 1/2" lg.	4
	103980	•• NUT, HEX 1/4-20	4
9	704263	• HOSE GUIDE, Lower	1
10	706162	• HOSE COVER, Main boom	2
	700583	•• NUT, Lock 1/4-20	2
11	704431	• BOOM TRAY COVER, Outer	1
	700583	•• NUT, Lock 1/4-20	2
12	700935	• BOOM WELDMENT, Telescopic	1
13	706192	• CABLE CARRIER-E-CHAIN ASSEMBLY	1
14	706001	• CYLINDER ASSEMBLY, Telescopic (For components refer to Figure 6-13.)	1
15	105269	• CABLE, 14/3 Cabtire	732"
16	700370	• PIN SPACER, Telescopic Cylinder 1-3/4 x 7/8"	2
	700160	SWITCH, Sealed limit	1
	700549	• BOLT, Rnd-hd #10-32 x 3/4" lg.	2
	104694	• WASHER, Flat #10	2
	104185	• WASHER, Lock #10	2
17	(Ref.)	• WEAR PADS, Telescopic Boom (For components refer to Figure 6-14.)	-
18	(Ref.)	• WEAR PADS, Main Boom (For components refer to Figure 6-15.)	-

FIGURE 6-13. BOOM TELESCOPING CYLINDER ASSEMBLY

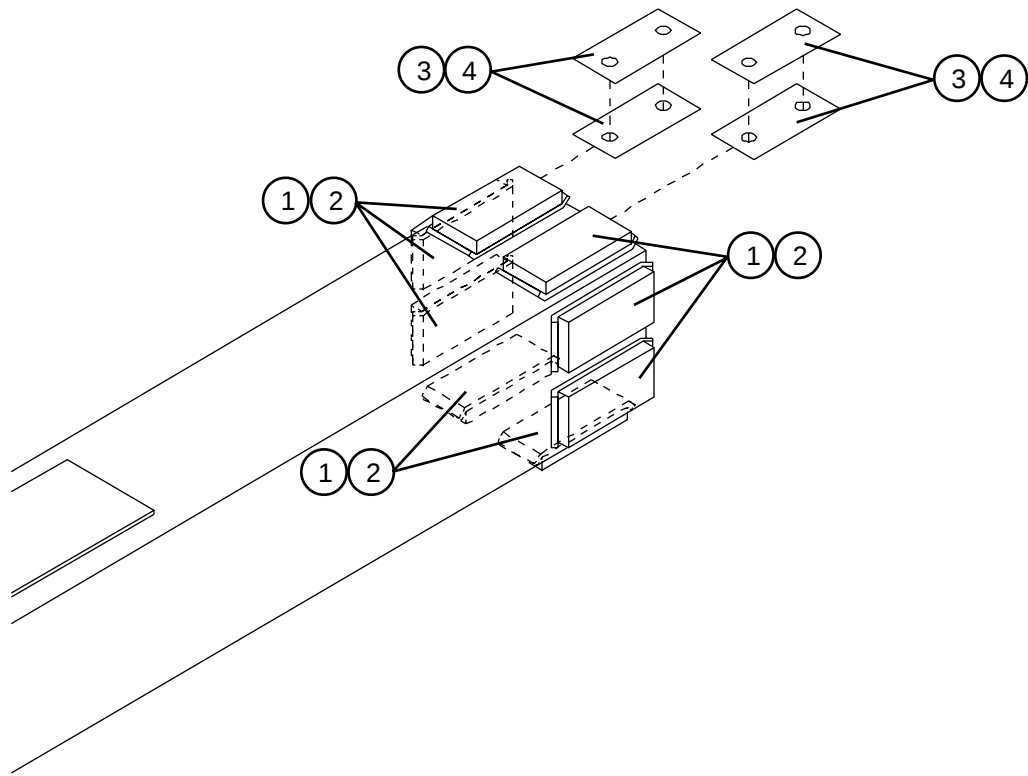


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FIGURE 6-13. BOOM TELESCOPING CYLINDER ASSEMBLY

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
	700871	CYLINDER ASSEMBLY, Boom telescopic	-
1	700872	• WELDMENT, Cylinder barrel	1
2	700874	• WELDMENT, Cylinder rod	1
3	700359	• GLAND, Cylinder	1
4	700360	• PISTON, Cylinder	1
*5	700576	• SEAL, Rod	1
*6	700577	• SEAL, Piston	1
*7	700578	• WIPER, Rod	1
*8	110949	• WEAR RING, Piston	1
9	700575	• NUT, Lock 3/4-10	1
*10	701964	• O-RING, Gland	1
*11	701634	• O-RING, Piston	1
12	700876	• SPACER, Cylinder 1-1/4" x 1-1/2" x 2.113" lg.	1
13	100309	• BUSHING, 1" x 1-1/8" x 1" lg.	4
14	100695	• BUSHING, 1" x 1-1/8" x 1-1/2" lg.	2
15	700258	SUPPORT ASSEMBLY, Telescopic cylinder	1
	700260	• PAD, Telescopic cylinder support	2
	700259	• BRACKET, Telescopic cylinder support	1
	700581	• BOLT, Soc-hd 1/4-20 x 1-1/2" lg.	2
	700582	• BOLT, Flat-hd 1/4-20 x 3/4" lg.	4
		NOTE - Items 16 thru 22 are for machines with S/N 95210 and above.	
16	709824	VALVE BLOCK, Telescopic cylinder	1
	707809	• BOLT, HHCS 5/16-18 x 3" lg.	4
	103404	• WASHER, Lock 5/16"	4
17	700568	VALVE, Counterbalance	1
18	710264	VALVE, Counterbalance	1
19	709825	VALVE, Check	1
20	709826	VALVE, Pilot check	1
21	701635	O-RING, Valve block	2
22	701956	FITTING, Connector #6orb-#4	2
		NOTE - Items 21 thru 24 are for machines with S/N 95209 and below.	
23	700041	VALVE BLOCK, Telescopic cylinder	1
	108429	• BOLT, SHCS 5/16-18 x 3-1/2" lg.	4
	103404	• WASHER, Lock 5/16"	4
24	700568	VALVE, Counterbalance	2
	700455	KIT, Seal repair	AR
	706522	TOOL, Cylinder assembly 2"	-
		* Part of Seal Repair Kit.	

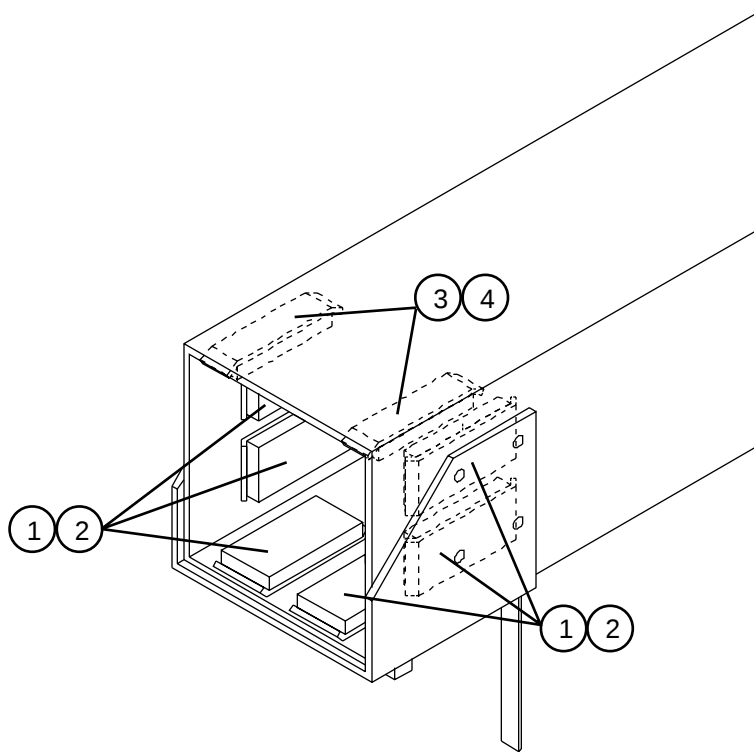
FIGURE 6-14. TELESCOPIC BOOM WEAR PADS



Ma40-611

Index No.	Skyjack Part No.	Description							Units per Assy.
		1	2	3	4	5	6	7	
1	700077	WEAR PAD							8
	700579	• PIN, Roll 1/4x1/2" lg.							1
2	700098	BRACKET, Wear Pad							8
	101632	• BOLT, HHCS 3/8-16x3/4" lg.							2
	103472	• WASHER, Flat SAE 3/8"							2
	103999	• WASHER, Lock 3/8"							2
3	700097	SHIM, Wear pad (.059 thk.)							AR
4	700580	SHIM, Wear pad (.023 thk.)							AR

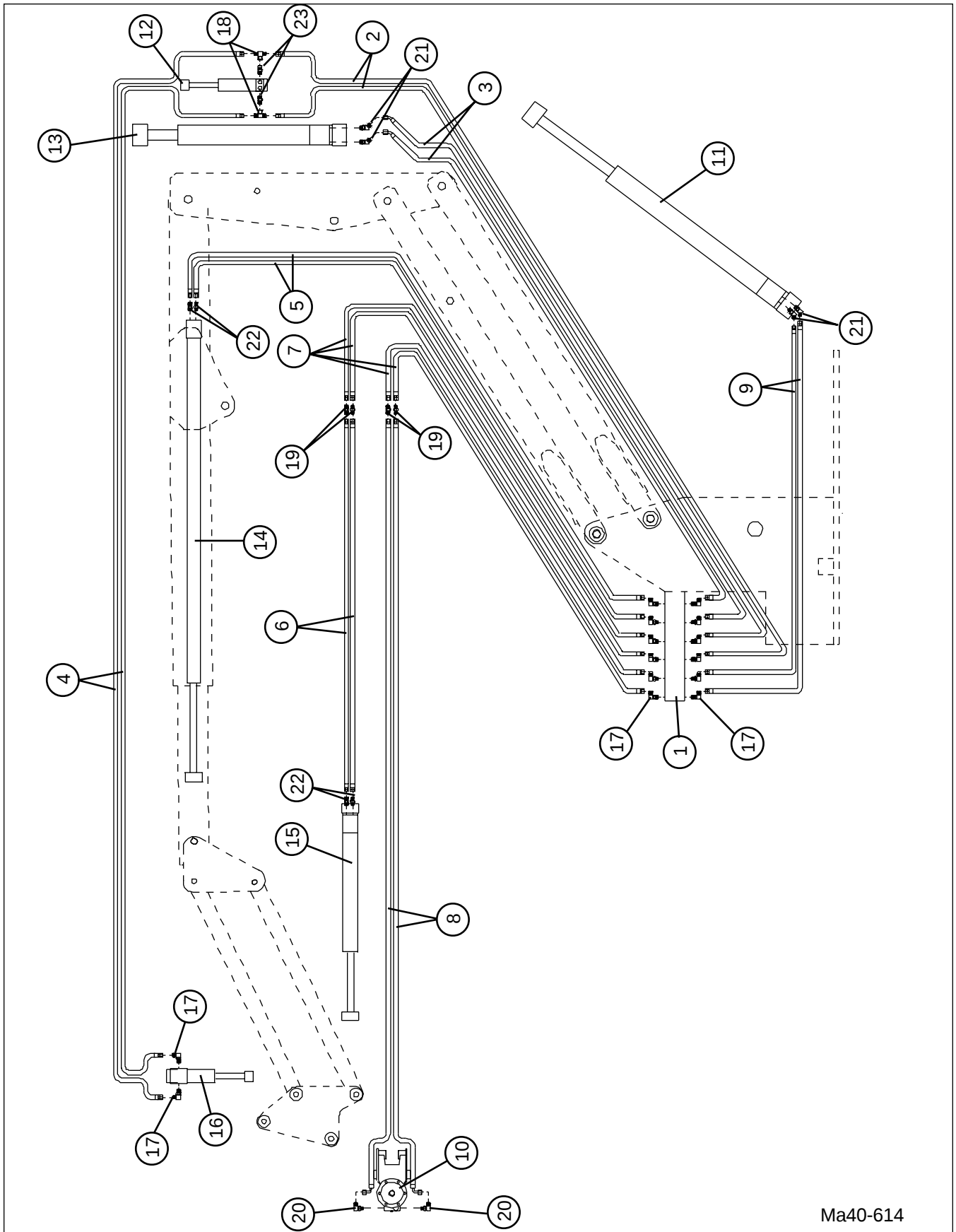
FIGURE 6-15. MAIN BOOM WEAR PADS



Ma40-612

Index No.	Skyjack Part No.	Description							Units per Assy.
		1	2	3	4	5	6	7	
1	700077	WEAR PAD							6
	700579	• PIN, Roll 1/4x1/2" lg.							1
2	700098	BRACKET, Wear Pad							6
	700097	• SHIM, Wear pad (.059 thk.)							AR
	700580	• SHIM, Wear pad (.023 thk.)							AR
	101632	• BOLT, HHCS 3/8-16x3/4" lg.							2
	103472	• WASHER, Flat SAE 3/8"							2
	103999	• WASHER, Lock 3/8"							2
3	701072	WEAR PAD							2
	700579	• PIN, Roll 1/4x1/2" lg.							1
4	701071	BRACKET, Wear Pad							2
	702196	• SHIM, Wear pad (.024 thk.)							AR
	103473	• BOLT, HHCS 3/8-16x1" lg.							2
	103472	• WASHER, Flat SAE 3/8"							2
	103999	• WASHER, Lock 3/8"							2

FIGURE 6-16. HYDRAULIC HOSE CONNECTIONS - Boom Assembly

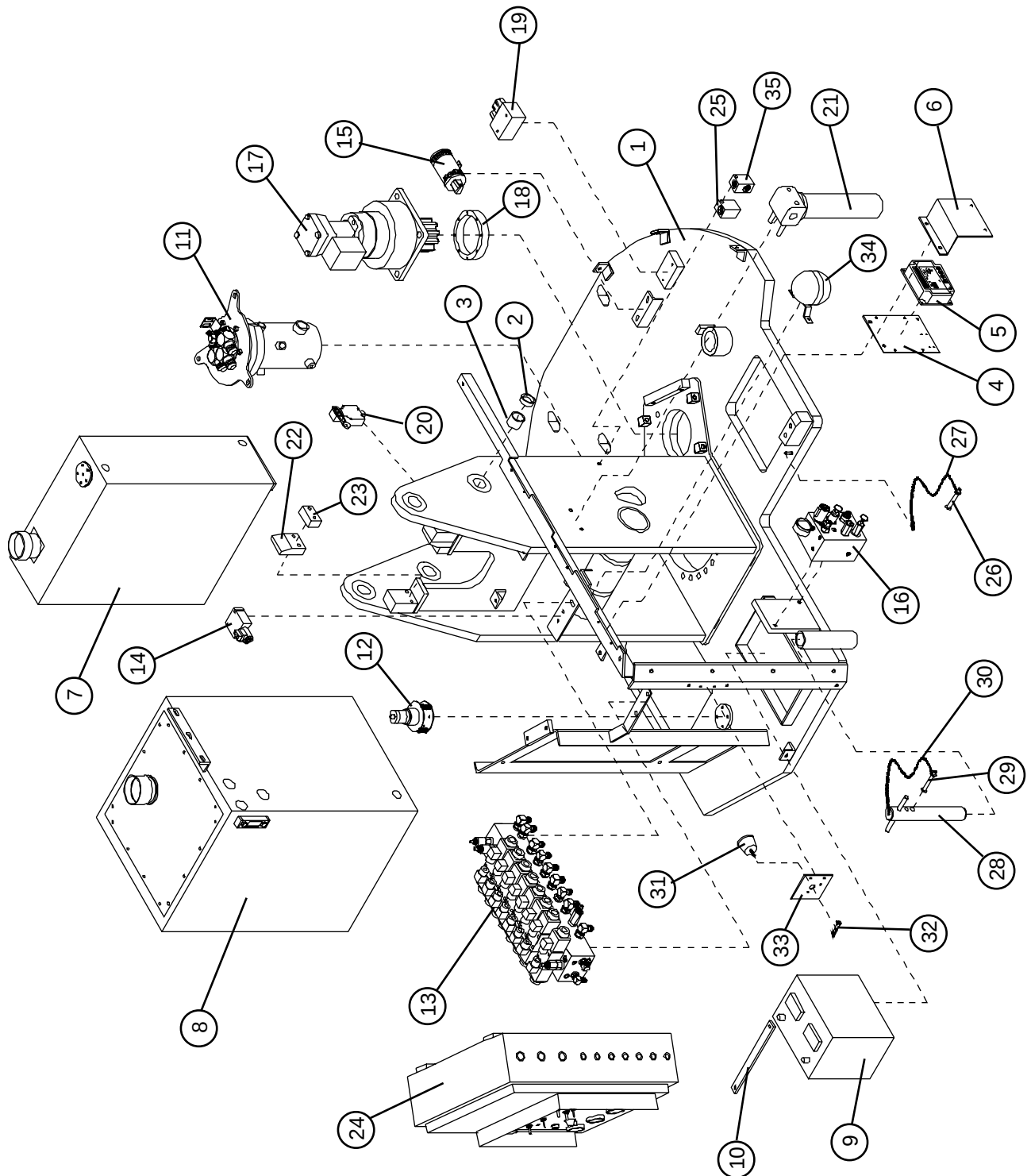


Ma40-614

FIGURE 6-16. HYDRAULIC HOSE CONNECTIONS - Boom Assembly

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	(Ref.)	MANIFOLD ASSEMBLY, Main (For components, refer to Figure 6-22.)	1
2	707104	HOSE ASSEMBLY, Manifold to master cylinder (H104 0146 00-0)	2
3	707105	HOSE ASSEMBLY, Manifold to lift cylinder (H304 0143 00-0)	2
4	707810	HOSE ASSEMBLY, Master cylinder to slave cylinder (H104 0370 00-0)	2
5	707811	HOSE ASSEMBLY, Manifold to telescopic cylinder (H104 0166 00-0)	2
6	707812	HOSE ASSEMBLY, Union to jib cylinder (H104 0286 00-0)	2
7	707813	HOSE ASSEMBLY, Manifold to union (H104 0196 00-0)	4
8	707814	HOSE ASSEMBLY, Union to rotary actuator (H604 0327 00-0)	2
9	706559	HOSE ASSEMBLY, Manifold to riser cylinder (H104 0024 00-0)	2
10	701498	ACTUATOR, Rotary	1
11	700328	CYLINDER ASSEMBLY, Riser lift (For components, refer to Figure 6-9.)	1
12	700333	CYLINDER ASSEMBLY, Platform leveling master (For components, refer to Figure 6-7.)	1
13	700989	CYLINDER ASSEMBLY, Boom lift (For components, refer to Figure 6-8.)	1
14	700871	CYLINDER ASSEMBLY, Telescopic (For components, refer to Figure 6-13.)	1
15	700241	CYLINDER ASSEMBLY, Jib lift (For components, refer to Figure 6-6.)	1
16	700388	CYLINDER ASSEMBLY, Platform leveling slave (For components, refer to Figure 6-11.)	1
17	701999	FITTING, Elbow 90° #6orb-#4	14
18	703223	FITTING, Tee #6 female-#4-#4	2
19	702124	FITTING, Union #4-#4	4
20	701850	FITTING, Elbow 90° #4orb-#4	2
21	707234	FITTING, Elbow 45° #6orb-#4	4
22	701956	FITTING, Connector #6orb-#4	4
23	103069	FITTING, Connector #6orb-#6	2
NOTE: Refer to Standard Hose Numbering System (SECTION 5, Page 30) for explanation of hose numbering.			

FIGURE 6-17. TURRET ASSEMBLY



MA40-603

FIGURE 6-17. TURRET ASSEMBLY

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	704159	WELDMENT, Turret	1
	103895	• BOLT, HHCS 5/8-11 x 3" lg. grade 8	18
	700782	• WASHER, Flat SAE 5/8" hard-yellow zinc	18
2	700482	BUSHING, 1-1/2" x 1-11/16" x 1/2" lg.	4
3	700483	BUSHING, 1-1/2" x 1-11/16" x 1-1/4" lg.	4
4	707123	MOUNTING PLATE	1
5	103473	• BOLT, HHCS 3/8-16 x 1" lg.	2
	103999	• WASHER, Lock 3/8"	2
	707678	THROTTLE CONTROL, Kabota Engine (Barber Colman)	1
	701643	THROTTLE CONTROL, Ford Engine (Barber Colman)	1
	104698	• BOLT, Machine head #10-32 x 3/4" lg.	4
6	104185	• WASHER, Lock #10	4
	104003	• NUT, Hex #10-32	4
	707884	COVER, Barber Colman	1
7	707627	ASSEMBLY, Fuel tank (For components, refer to Figure 6-19.)	1
8	103845	• BOLT, HHCS 5/16-18 x 1/2" lg.	4
	103996	• WASHER, Flat 5/16" SAE	4
	103404	• WASHER, Lock 5/16"	4
	706079	ASSEMBLY, Hydraulic tank (For components, refer to Figure 6-20.)	1
	101632	• BOLT, HHCS 3/8-16 x 3/4" lg.	3
9	700522	• BOLT, SHCS 3/8-16 x 2" lg.	3
	103472	• WASHER, Flat 3/8" SAE	6
	103999	• WASHER, Lock 3/8"	3
	104606	• NUT, Lock 3/8"	3
	703719	BATTERY, 12 Volt 850 CCA	1
10	706602	TERMINAL COVER, Red	1
	707275	PLATE, Battery hold down	1
11	707298	• BOLT, HHCS 3/8-16 x 8" lg.	2
	704344	ASSEMBLY, Rotary Manifold (For components, refer to Figure 6-21.)	1
	101632	• BOLT, HHCS 3/8-16 x 3/4" lg.	3
	103472	• WASHER, Flat 3/8" SAE	3
	103999	• WASHER, Lock 3/8"	3
12	702195	• BOLT, HHCS 3/8-16 x 1 1/2" lg.	2
	702929	• NUT, Hex jam 3/8-16	2
	708861	SWITCH, Tilt	1
	103855	• BOLT, HHCS 1/4-20 x 1/2" lg.	4
	104000	• WASHER, Lock 1/4"	4
13	704269	ASSEMBLY, System manifold (For components, refer to Figure 6-22.)	1
	101632	• BOLT, HHCS 3/8-16 x 3/4" lg.	4
	103472	• WASHER, Flat 3/8" SAE	4
	103999	• WASHER, Lock 3/8"	4
14	704968	VALVE ASSEMBLY, Proportional control	1
	707825	• VALVE	1
	703803	• COIL	1
	103860	• BOLT, HHCS 1/4-20 x 1-3/4" lg.	2
	103995	• WASHER, Flat 1/4" SAE	2
15	700583	• NUT, Lock 1/4-20	2
	701956	• FITTING, Connector #6orb - #4	2
	706921	PUMP/MOTOR ASSEMBLY, Emergency lowering	1
		• PUMP, Emergency lowering	1
		• MOTOR, Emergency lowering	1
16		• COUPLER	1
	101632	• BOLT, HHCS 3/8-16 x 3/4" lg.	2
	103999	• WASHER, Lock 3/8"	2
	110669	• FITTING, Elbow 90° #6orb - #8	1
	701998	• FITTING, Elbow 90° #8orb - #8	1
17	(Ref.)	ASSEMBLY, Brake manifold (For components, refer to Figure 6-23.)	1
	702812	• BOLT, HHCS 3/8-16 x 4-1/2" lg.	2
	103999	• WASHER, Lock 3/8"	2
	704287	ASSEMBLY, Speed reducer (For components, refer to Figure 6-24.)	1
	706403	• SET SCREW, 1/2-13 x 2-1/2" lg.	6
	103471	• NUT, Hex 1/2-13	6
	706429	• BOLT, SHCS 5/8-11 x 2" lg.	4
	103998	• WASHER, Lock 5/8"	4

Parts List Continued on Page 37.

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SJKB-40-D, SJKB-40-D/F

FIGURE 6-17. TURRET ASSEMBLY

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
		Parts List Continued from Page 35.	
18	706360	ECCENTRIC RING	1
19	704666	MANIFOLD ASSEMBLY, Low speed/torque	1
	708336	• RELIEF VALVE	1
	708332	• VALVE	1
	708331	• COIL	1
	701206	• BOLT, HHCS 1/4-20 x 2-1/4" lg.	2
	104000	• WASHER, Lock 1/4"	2
	701999	• FITTING, Elbow 90° #6orb - #4	2
20	708600	SWITCH, Sealed limit	1
	700549	• BOLT, SHCH #10-32 x 3/4" lg.	2
	104694	• WASHER, Flat #10	2
	104185	• WASHER, Lock #10	2
	104003	• NUT, Hex #10-32	2
21	704476	OIL FILTER, High pressure	1
	704559	• ELEMENT, High pressure filter	1
	704581	• BOLT, HHCS 1/4-20 x 4 1/2" lg.	2
	700583	• NUT, Lock 1/4-20	2
	707280	• FITTING, Connector #12orb - #8	2
	706715	• FITTING, Swivel nut tee #8 - #8 - #8	1
	703046	• FITTING, Tube reducer #6orb - #8	1
	702761	• FITTING, Swivel nut elbow 90° #6 - #6 (Ford 1.3 Only)	1
	702813	• FITTING, Swivel nut elbow 45° #8 - #8 (Ford 1.3 Only)	1
22	700814	PAD, Boom guide, 1" x 2-1/2" x 3-1/4"	2
23	700813	PAD, Boom lower rest	2
	709832	• BOLT, HHCS 3/8-16 x 2", grade 5	2
	103999	• WASHER, Lock 3/8"	2
24	(Ref.)	PANEL ASSEMBLY, Turret control (For components, refer to Figure 6-25.)	1
	101632	• BOLT, HHCS 3/8-16 x 3/4" lg.	4
	103472	• WASHER, Flat 3/8" SAE	4
	103999	• WASHER, Lock 3/8"	4
25	706833	CHECK VALVE, In line	1
	707809	• BOLT, HHCS 5/16-18 x 3" lg.	1
	103984	• NUT, Lock 5/16-18	1
	702116	• FITTING, Connector #8orb - #8	1
	707995	• FITTING, Branch tee #8orb - #8	1
26	703658	PIN, Hitch 3/8" (SJKB-40-D, -40-D/F Kabota engine only)	1
27	707774	LANYARD, 8" lg. (SJKB-40-D, -40-D/F Kabota engine only)	1
	103996	• WASHER, Flat 5/16" SAE	2
	103984	• NUT, Lock 5/16-18	1
28	706372	PIN, Transportation lock	1
29	703658	PIN, Hitch 3/8"	1
30	105807	LANYARD, 6" lg.	1
	101632	• BOLT, HHCS 3/8-16 x 3/4" lg.	1
	103472	• WASHER, Flat 3/8" SAE	1
31	102600	SWITCH, Main disconnect	1
	706528	• COVER, Terminal	1
	706529	• COVER, Terminal	1
32	108714	KIT, Lever lockout	1
33	707122	MOUNTING PLATE, Battery disconnect	1
34	700903	ACCUMULATOR	1
	700904	• CLAMP, Accumulator	1
	103855	• BOLT, HHCS 1/4-20 x 1/2" lg.	2
	104000	• WASHER, Lock 1/4"	2
	708517	• FITTING, Swivel adapter #8orb - #8	1
	708519	• FITTING, Branch tee #8 - #8 - #8	1
	708518	• FITTING, Pipe adapter #8 - #4	1
	114520	• FITTING, Quick disconnect	1
	114521	• FITTING, Dust cap	1
35	704949	• VALVE, Shuttle cartridge	1
	701850	•• FITTING, Elbow 90° #4orb - #4	2
	701954	•• FITTING, Connector, #4orb - #4	1

FIGURE 6-18. TURRET COVERS, DOORS AND COUNTERWEIGHTS

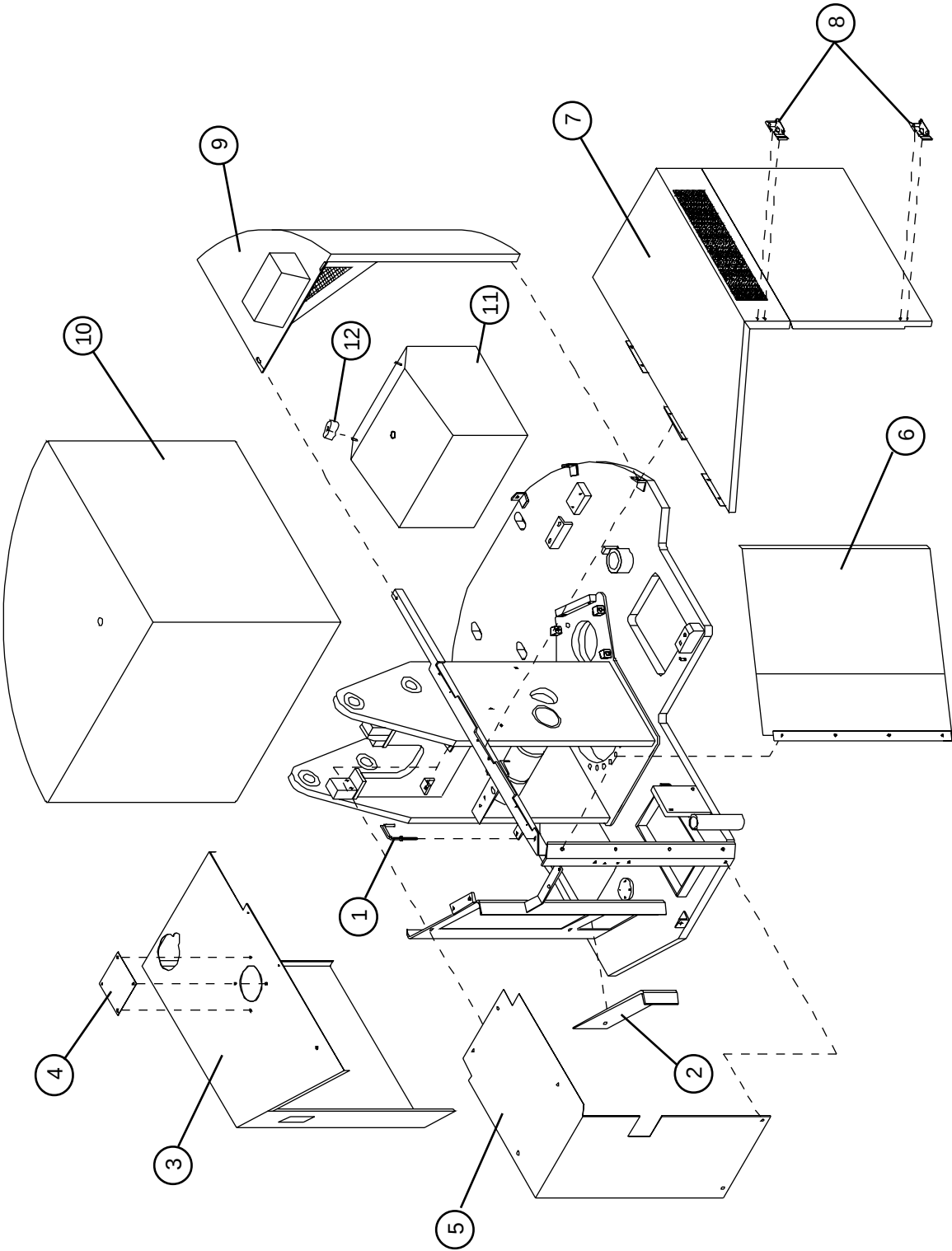
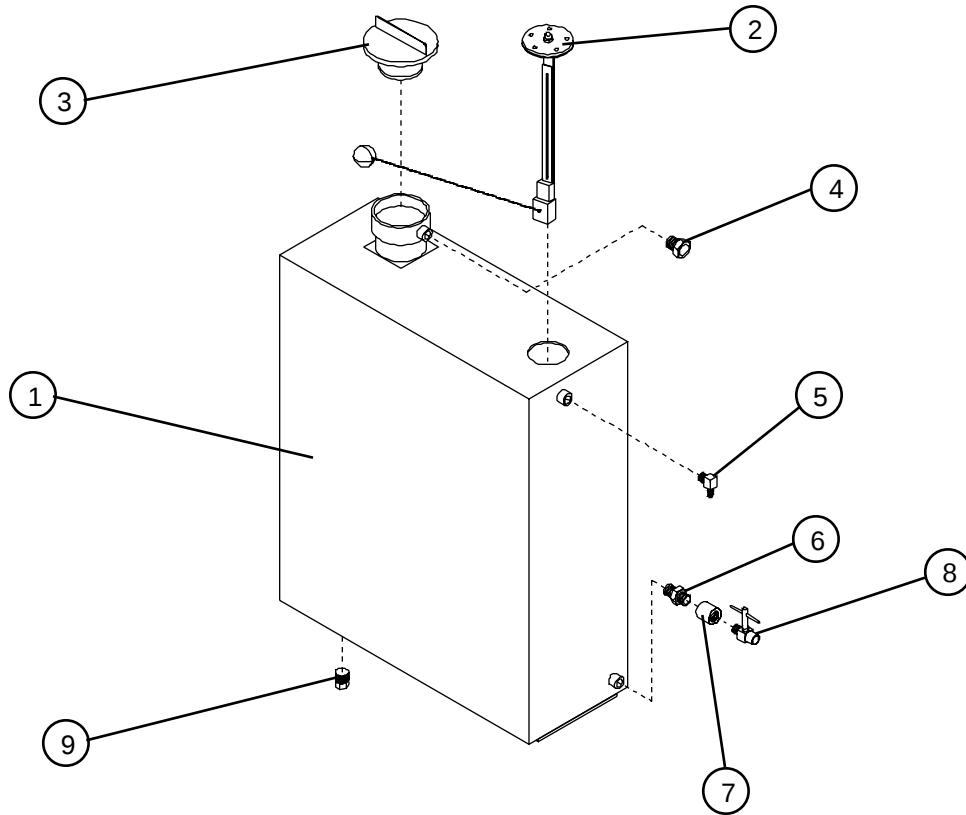


FIGURE 6-18. TURRET COVERS, DOORS AND COUNTERWEIGHTS

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	707753	ASSEMBLY, Door stop	1
	707754	• WELDMENT, Door stop	1
	103472	• WASHER, Flat 3/8" SAE	1
	707749	• SPRING, Utility compression, 1/2" x 1-1/2" lg.	1
	707748	• PIN, Cotter, 1/8" x 3/4" lg.	1
	707751	• BUMPER, Rubber	1
2	706234	COVER PLATE	1
	103887	• BOLT, HHCS 5/16-18 x 3/4" lg.	2
	103996	• WASHER, Flat 5/16" SAE	2
	103404	• WASHER, Lock 5/16"	2
3	707169	COVER WELDMENT, Tank side	1
	706431	• EDGE TRIM	AR
	101632	• BOLT, HHCS 3/8-16 x 3/4" lg.	AR
	103472	• WASHER, Flat 3/8" SAE	AR
	103999	• WASHER, Lock 3/8"	AR
4	702862	• SCREW, Self tapping, 1/4-14 x 1" lg.	2
	707176	COVER PLATE, Hydraulic	1
	103855	• BOLT, HHCS 1/4-20 x 1/2" lg.	4
	103995	• WASHER, Flat 1/4" SAE	4
	104000	• WASHER, Lock 1/4"	4
5	706291	COVER, Front	1
	101632	• BOLT, HHCS 3/8-16 x 3/4" lg.	AR
	103472	• WASHER, Flat 3/8" SAE	AR
	103999	• WASHER, Lock 3/8"	AR
6	707281	WELDMENT, Front bi-fold door	1
	708528	WELDMENT, Front bi-fold door (European only)	1
	103856	• HHCS 1/4-20 3/4" lg.	4
	103995	• WASHER, Flat 1/4" SAE	4
	104000	• WASHER, Lock 1/4"	4
	103980	• NUT, Hex 1/4-20	4
	707863	•• ANGLE, Bi-fold door	1
	104698	•• BOLT, Machine head #10-32 x 3/4" lg.	2
7	701695	•• NUT, Lock #10-32	2
	706216	WELDMENT, Engine side door	1
	103855	• BOLT, HHCS 1/4-20 x 1/2" lg.	6
	104000	• WASHER, Lock 1/4"	6
8	710188	• BUMPER, Rubber	6
	701129	DOOR LATCH, Engine side	2
	104698	• BOLT, Machine head #10-32 x 3/4"	8
9	701695	• NUT, Lock #10-32	8
	707114	WELDMENT, Cover engine, fake counterweight	1
	103855	• BOLT, HHCS 1/4-20 x 1/2" lg.	AR
10	104000	• WASHER, Lock 1/4"	AR
	704426	COUNTERWEIGHT, 3700 lbs. (4x2 Models)	1
	708240	COUNTERWEIGHT, 2800 lbs. (4x4 Models)	1
	700617	• PLUG, Plastic	1
	708282	• BOLT, HHCS 1-8 x 3" lg.	3
	107948	• WASHER, Lock 1"	3
	700435	• WASHER, Flat 1"	3
11	706994	COUNTERWEIGHT	1
	700617	• PLUG, Plastic	1
	708282	• BOLT, HHCS 1-8 x 3" lg.	2
	107948	• WASHER, Lock 1"	2
	700435	• WASHER, Flat 1"	2
12	111135	PAD, Riser rest	2
	103980	• NUT, Hex 1/4-20	2
	103995	• WASHER, Flat 1/4" SAE	2
	104000	• WASHER, Lock 1/4"	2

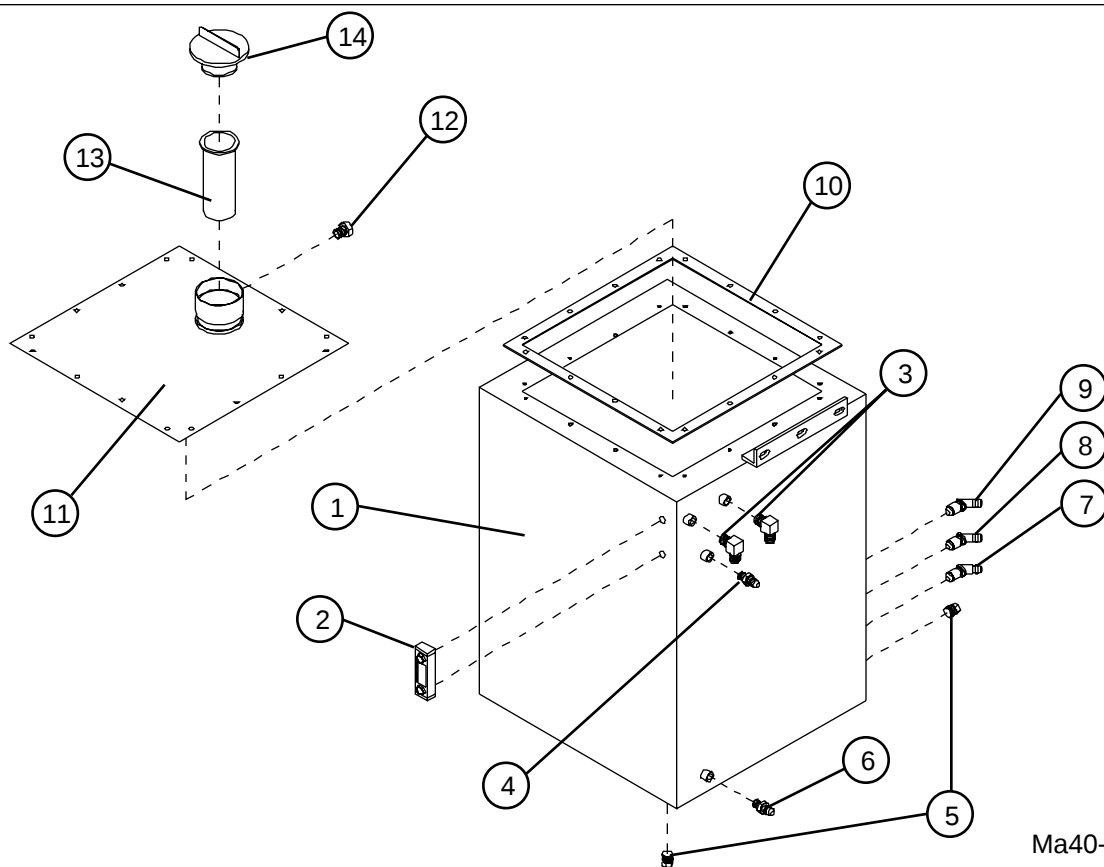
FIGURE 6-19. FUEL TANK ASSEMBLY



Ma40-616

Index No.	Skyjack Part No.	Description							Units per Assy.
		1	2	3	4	5	6	7	
1	707627	ASSEMBLY, Fuel tank							-
	704471	• WELDMENT, Fuel tank (S/N 95037 and Above)							1
	707077	• WELDMENT, Fuel tank (S/N 95036 and Below)							1
2	706172	• SENDER, Fuel Level							1
	707076	•• MOUNTING KIT, Fuel level sender (S/N 95036 and Below)							1
3	703937	• FILLER CAP, Fuel tank							1
4	700506	• PLUG, Breather vent							1
5	701862	• PLUG, 3/8" NPT (Gas and Dual Fuel)							1
	703593	• FITTING, Elbow 90° brass barb (Diesel)							1
6	701458	• FITTING, Connector #4 - #4							1
7	702313	• FITTING, Pipe 1/4" full coupling							1
8	702308	• FITTING, Needle valve							1
9	103339	• PLUG, 3/4" magnetic zinc plated							1

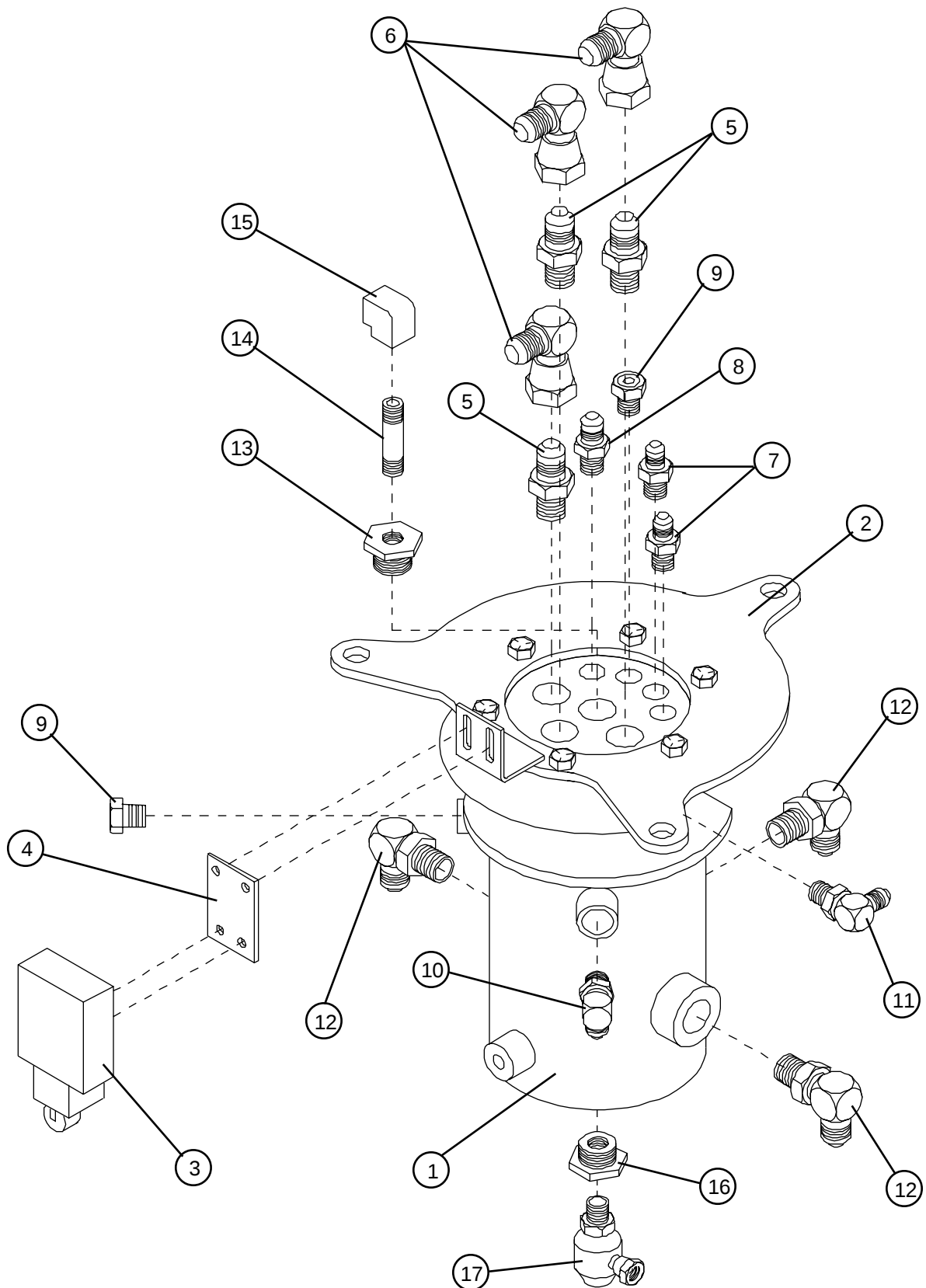
FIGURE 6-20. HYDRAULIC TANK ASSEMBLY



Ma40-617

Index No.	Skyjack Part No.	Description							Units per Assy.
		1	2	3	4	5	6	7	
	706079	ASSEMBLY, Hydraulic tank							-
1	704466	• WELDMENT, Hydraulic tank							1
2	103236	• GAUGE, Oil level temperature							1
3	702541	• FITTING, Elbow 90° #12NPT - #12							2
4	707120	• FITTING, Connector #12 - #8							1
5	103339	• PLUG, 3/4"NPT magnetic zinc plated							2
6	703118	• FITTING, Connector #6NPT - #6							1
7	707117	• FITTING, Elbow 45° #12NPT - #16							1
8	707116	• FITTING, Elbow 45° #12NPT - #12							1
9	706137	• FITTING, Elbow 45° #12NPT - #8							1
10	706188	• GASKET, Hydraulic tank cover plate							1
11	706076	• WELDMENT, Hydraulic tank cover plate							1
	103856	• BOLT, HHCS 1/4-20 x 3/4" lg. grade 5							16
	103995	• WASHER, Flat 1/4"							16
	104000	• WASHER, Lock 1/4"							16
12	700506	• PLUG, Breather vent							1
13	702290	• STRAINER, Hydraulic tank filler cap							1
14	702291	• FILLER CAP, Hydraulic tank							1

FIGURE 6-21. ROTARY MANIFOLD ASSEMBLY

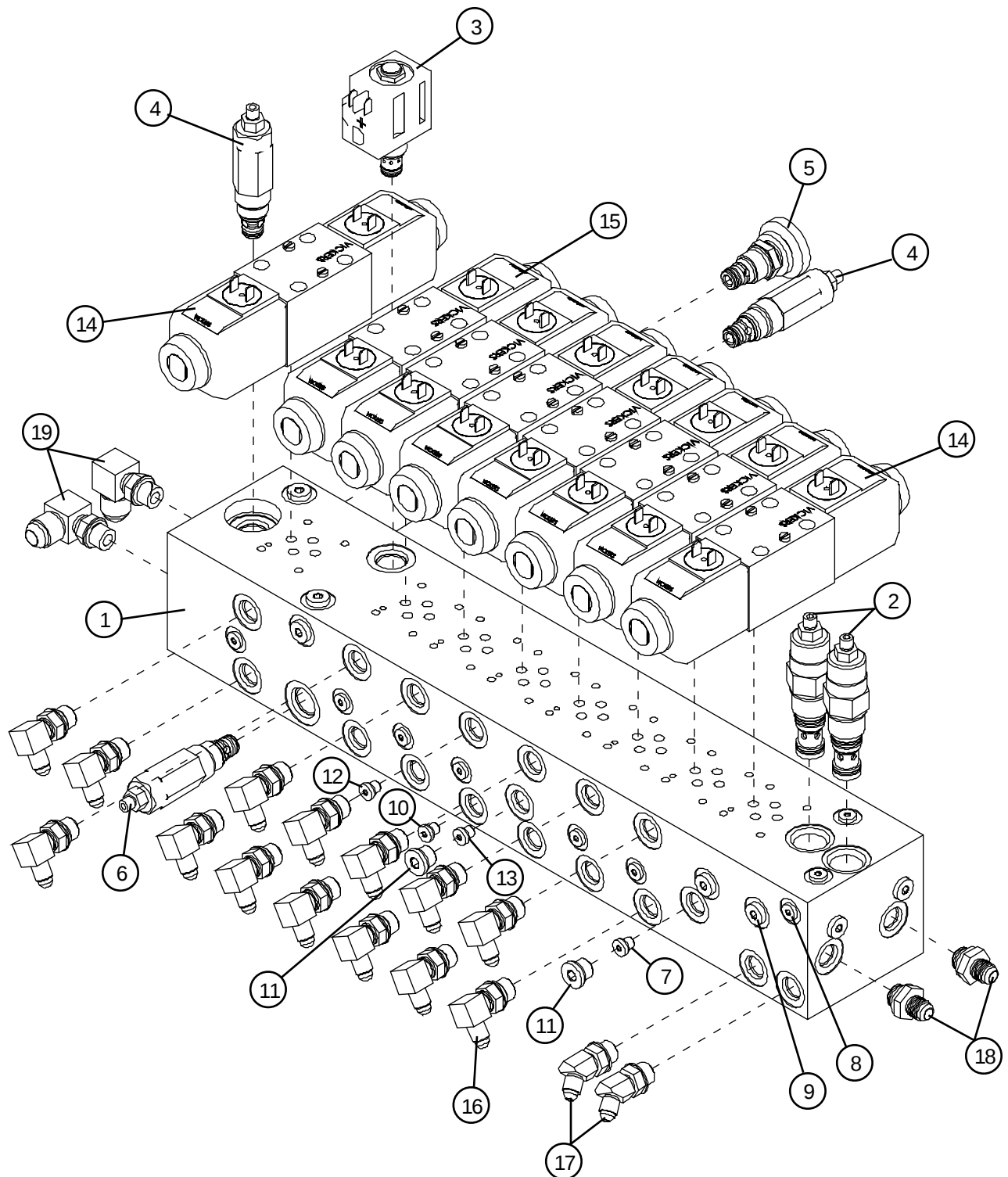


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FIGURE 6-21. ROTARY MANIFOLD ASSEMBLY

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
	704344	ASSEMBLY, Rotary manifold	-
1	704343	• MANIFOLD, Rotary	1
2	704739	• WELDMENT, Rotary manifold mounting plate	1
	101632	•• BOLT, HHCS 3/8-16 x 3/4" lg.	6
	103999	•• WASHER, Lock 3/8"	6
3	706294	• SWITCH, Directional sensing limit	1
	105621	•• BOLT, Machine head #10-32 x 1" lg.	2
	104694	•• WASHER, Flat #10	2
	104185	•• WASHER, Lock #10	2
	104003	•• NUT, Hex #10-32	2
4	706332	• PLATE, Limit switch mounting	1
	105621	•• BOLT, Machine head #10-32 x 1" lg.	2
	104694	•• WASHER, Flat #10	2
	104185	•• WASHER, Lock #10	2
	104003	•• NUT, Hex #10-32	2
5	702118	• FITTING, Connector #12orb - #12	3
6	702119	• FITTING, Elbow 90° female-#12 - #12	3
7	701956	• FITTING, Connector-#6orb - #4	2
8	103069	• FITTING, Connector #6orb - #6	1
9	104437	• FITTING, Plug #6	2
10	103073	• FITTING, Elbow 90° #6orb - #6	1
11	701999	• FITTING, Elbow 90° #6orb - #4	2
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	709204	• FITTING, Pipe nipple 1/4NPT x 4" lg.	1
15	702500	• FITTING, Elbow 90° female 1/4NPT - 1/4NPT	1
16	702821	• FITTING, Adaptor 3/4NPT - 3/8NPT	1
17	702239	• FITTING, Brass swivel #6orb - #4	1

FIGURE 6-22. SYSTEM MANIFOLD ASSEMBLY

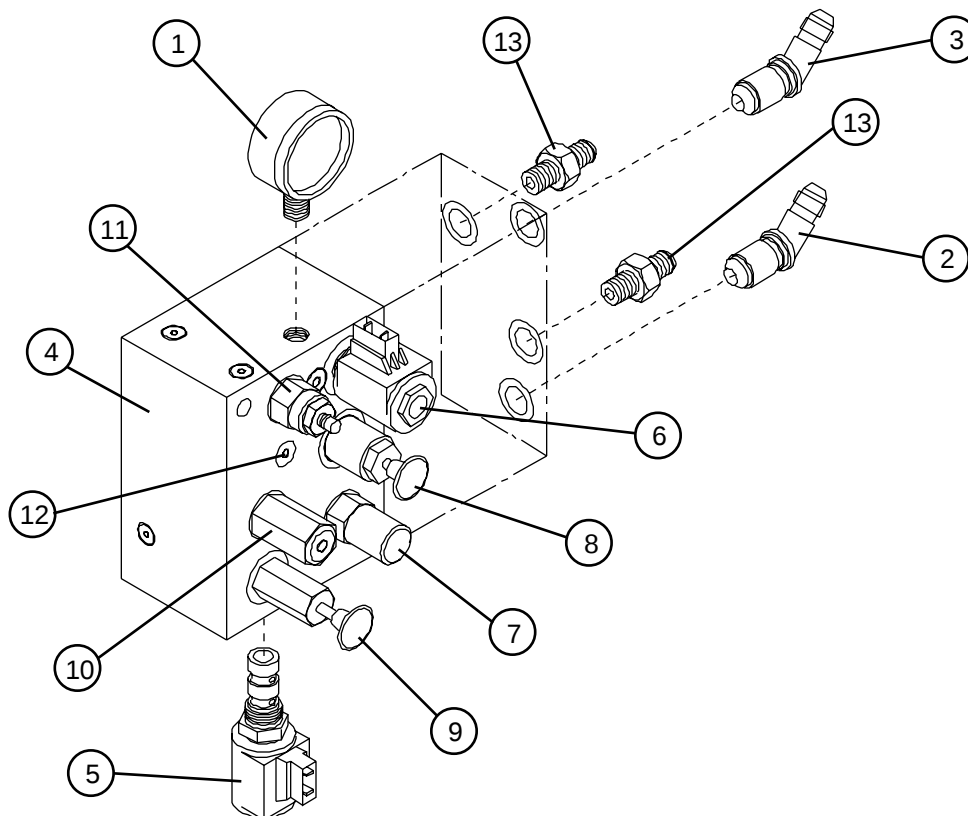


704269

FIGURE 6-22. SYSTEM MANIFOLD ASSEMBLY

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
	704269	ASSEMBLY, System manifold	-
-	704268	• BOOM, System manifold	1
1	710512	•• MANIFOLD BLOCK	1
2	700670	•• VALVE, Counterbalance (platform tilt)	2
3	700677	•• VALVE, Dump	1
	710509	••• VALVE, Solenoid	1
	707820	••• COIL, 12 Volt	1
4	700672	•• VALVE, Relief (turret rotate)	2
5	700763	•• VALVE, Needle (turret speed control)	1
6	700673	•• VALVE, Relief (dump)	1
7	700682	•• ORIFICE, .025 dia. (platform tilt)	1
8	710507	•• PLUG, Hollow HEX-hd #2orb	21
9	700765	•• PLUG, Hollow HEX-hd #4orb	11
10	700679	•• ORIFICE, .100 dia. (jib lift)	1
11	710508	•• PLUG, Hollow HEX-hd #6orb	4
12	700680	•• ORIFICE, .060 dia. (jib lift)	1
13	700682	•• ORIFICE, .025 dia (platform rotate)	1
14	704822	• VALVE ASSEMBLY, 12 Volt spool (lift functions)	7
	710511	•• VALVE, Directional	1
	707821	•• COIL, 12 Volt	2
	103918	•• BOLT, Socket head #10-24 x 1-1/4" lg.	4
15	704821	• VALVE ASSEMBLY, 12 Volt spool (steering)	1
	710510	•• VALVE, Directional	1
	707821	•• COIL, 12 Volt	2
	103918	•• BOLT, Socket head #10-24 x 1-1/4" lg.	4
16	701999	• FITTING, Elbow 90° #6orb - #4	14
17	707234	• FITTING, Elbow 45° #6orb - #4	2
18	701956	• FITTING, Connector #6orb - #4	2
19	110669	• FITTING, Elbow 90° #6orb - #8	2

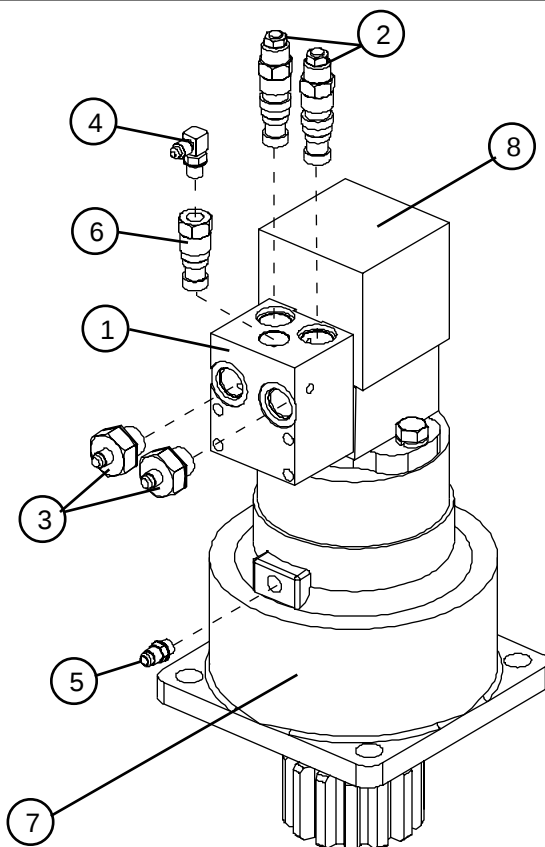
FIGURE 6-23. BRAKE MANIFOLD ASSEMBLY



Ma40-619

Index No.	Skyjack Part No.	Description							Units per Assy.
		1	2	3	4	5	6	7	
	(Ref.)	ASSEMBLY, Brake manifold							-
1	703725	• GAUGE, Pressure 800 psi							1
2	707234	• FITTING, Elbow 45° #6orb - #4							1
3	107742	• FITTING, Elbow 45° #6orb - #6							1
	704716	• MANIFOLD, Brake							1
4	703188	•• BLOCK, Manifold							1
5	703189	•• VALVE, Brake							1
	703803	••• COIL, 12 Volt							1
6	703190	•• VALVE, Tilt braking							1
	703803	••• COIL, 12 Volt							1
7	703191	•• VALVE, Pressure reducing							1
8	703192	•• VALVE, Brake release override							1
9	703193	•• VALVE, Brake release hand pump							1
10	703194	•• VALVE, Adjustable relief							1
11	706026	•• VALVE, Needle							1
12	703197	•• VALVE, Shuttle							2
	700764	•• PLUG, SAE #2							21
	700765	•• PLUG, SAE #4							3
	104437	•• PLUG, SAE #6							5
13	103069	• FITTING, Connector #6orb - #6							2
	107742	• FITTING, Elbow 45° #6orb - #6 (Ford 1.3 Only)							2

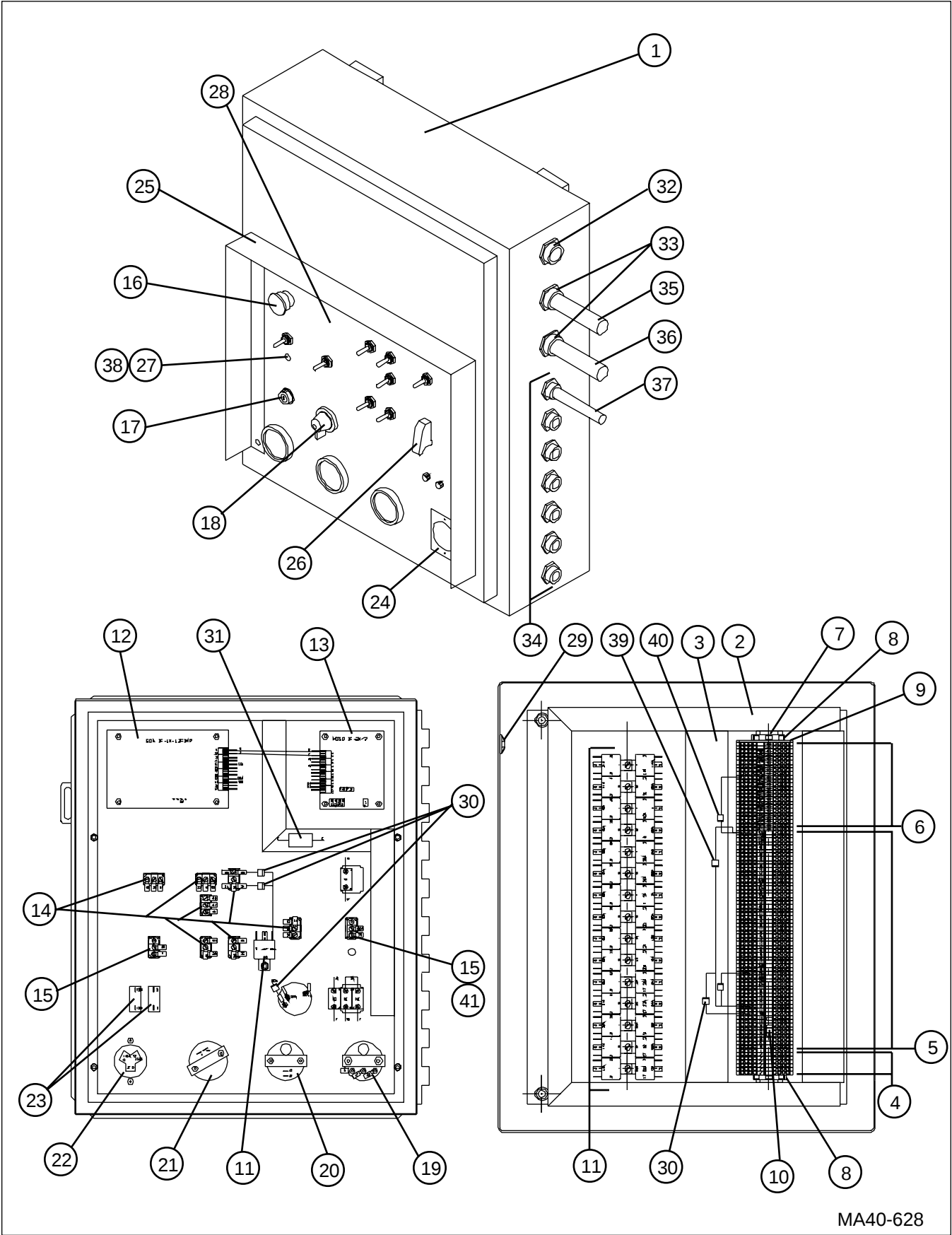
FIGURE 6-24. SPEED REDUCER ASSEMBLY



704287

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	704287	ASSEMBLY, Speed reducer	-
	703019	• MANIFOLD, Rotation drive motor	1
	707809	• BOLT, SHCS 5/16-18 x 3" lg. grade 5	4
	103404	• WASHER, Lock 5/16"	4
2	706384	• VALVE, Counterbalance	2
3	707996	• FITTING, Connector #10orb - #4	2
4	701850	• FITTING, Elbow 90° #4orb - #4	1
5	701954	• FITTING, Connector #4orb - #4	1
6	703030	• VALVE, Shuttle cartridge	1
-	710868	• ASSEMBLY, Speed reducer/Hydraulic motor	1
7	702989	• • SPEED REDUCER	1
	704222	• • • GASKET	1
	704230	KIT, Seal	1
8	703973	• • MOTOR, Hydraulic	1
	103909	• • BOLT, HHCS 1/2-13 x 1-1/4" lg.	2
	103470	• • WASHER, Lock 1/2"	2
	704237	KIT, Seal	1
9	704504	• ASSEMBLY, Hose (H1204 0009 00-0) (Not shown)	1
NOTE: Refer to Standard Hose Numbering System (SECTION 5, Page 30) for explanation of hose numbering.			

FIGURE 6-25. BASE CONTROL/ELECTRICAL PANEL ASSEMBLY

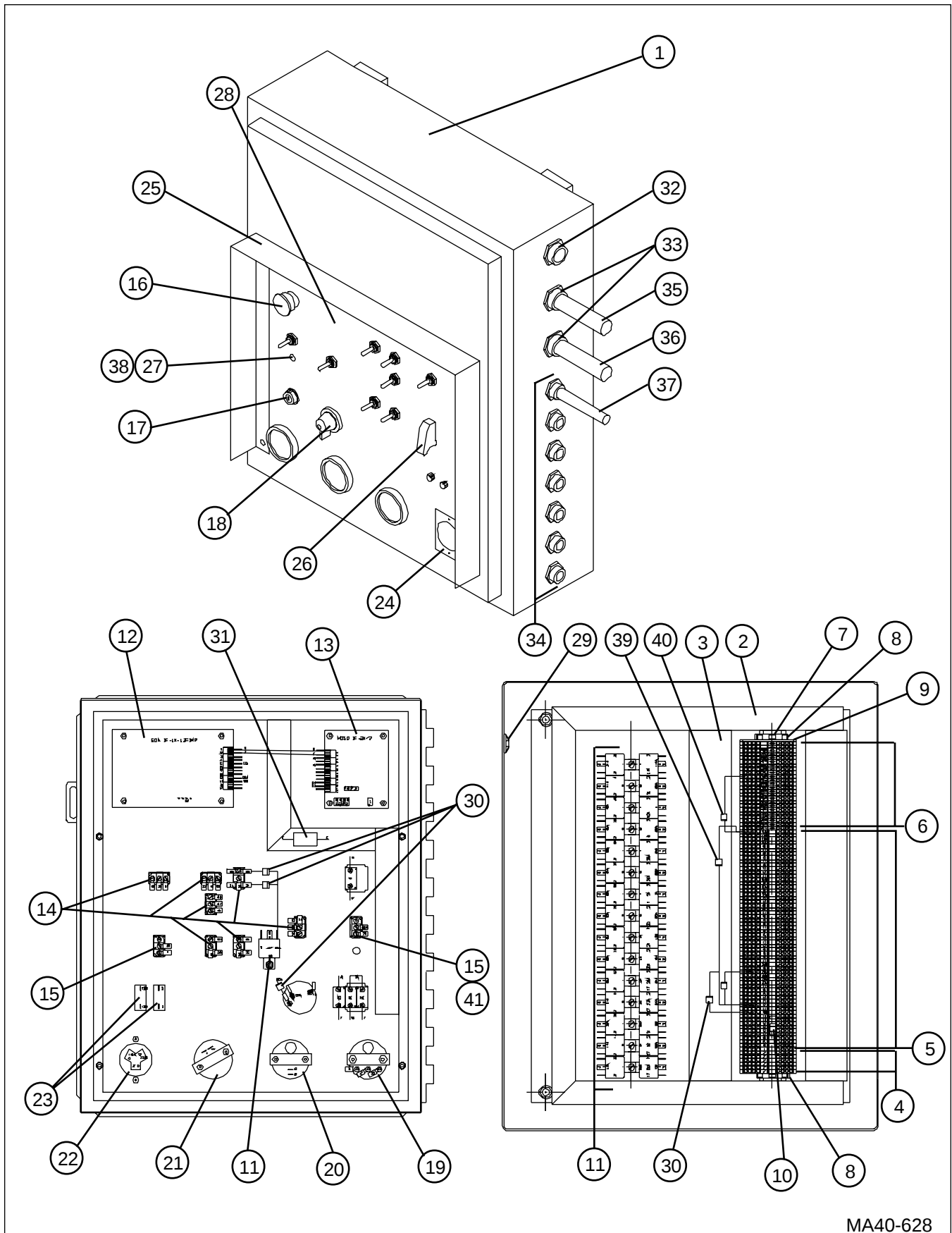


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FIGURE 6-25. BASE CONTROL/ELECTRICAL PANEL ASSEMBLY

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
	(Ref.)	PANEL ASSEMBLY, Base control	-
1	704586	• ENCLOSURE, Electrical	1
2	707187	• DUCT, Wire 1"	75"
	702186	• COVER, Wire duct	75"
3	707020	• DUCT, Wire 2"	38"
	707188	• COVER, Wire duct	38"
4	707144	• TERMINAL BLOCK, Ground	6
5	707143	• TERMINAL BLOCK, Through	61
6	707145	• TERMINAL BLOCK, Diode	23
7	707149	• DIN RAIL, Terminal	20"
	103962	•• BOLT, Machine head #10-32 x 1/2" lg.	AR
	104694	•• WASHER, Flat #10	AR
	104185	•• WASHER, Lock #10	AR
8	707147	• END BLOCK, Terminal block	2
9	707146	• END PLATE, Terminal block	1
10	707148	• JUMPER, Terminal block	5
11	701943	• RELAY, 12 Volt sealed	AR
	103962	•• BOLT, Machine head #10-32 x 1/2" lg.	AR
	104185	•• WASHER, Lock #10	AR
	104000	•• NUT, Hex #10-32	AR
12	701547	• CARD, Multi purpose controller (EDA)	1
	103985	•• NUT, Hex #6-32	AR
13	701546	• CARD, Dual solenoid driver (MDSD)	1
	103985	•• NUT, Hex #6-32	AR
14	102853	• SWITCH, Toggle 3 position momentary	7
15	701929	• SWITCH, Toggle 2 position momentary	AR
16	(Ref.)	• SWITCH ASSEMBLY, Emergency stop	1
	102769	• HEAD, Emergency stop switch	1
	103281	• BASE, N.C. Contact	1
17	(Ref.)	• SWITCH ASSEMBLY, Key	1
	102753	• HEAD, Key switch	1
	104466	•• Key, #455	1
	103279	• BASE, Contact 2 N.C.	1
	103141	• CONTACT, N.O.	1
18	701931	• SWITCH, Ignition	1
19	706282	• GAUGE, Fuel	1
20	704732	• VOLTMETER	1
21	701925	• METER, Hour	1
22	105271	• PLUG, Recessed male 110 volt	1
	113227	•• BOOT, Rubber	1
	700841	•• BOLT, Machine head #6-32 x 1/2" lg.	2
	103985	•• NUT, Hex #6-32	2
23	702402	• BREAKER, 15 Amp circuit	2
24	703572	• COVER, 110 Volt outlet	1
	700841	•• BOLT, Machine head #6-32 x 1/2" lg.	2
	103985	•• NUT, Hex #6-32	2
Parts List Continued on Page 51.			

FIGURE 6-25. BASE CONTROL/ELECTRICAL PANEL ASSEMBLY

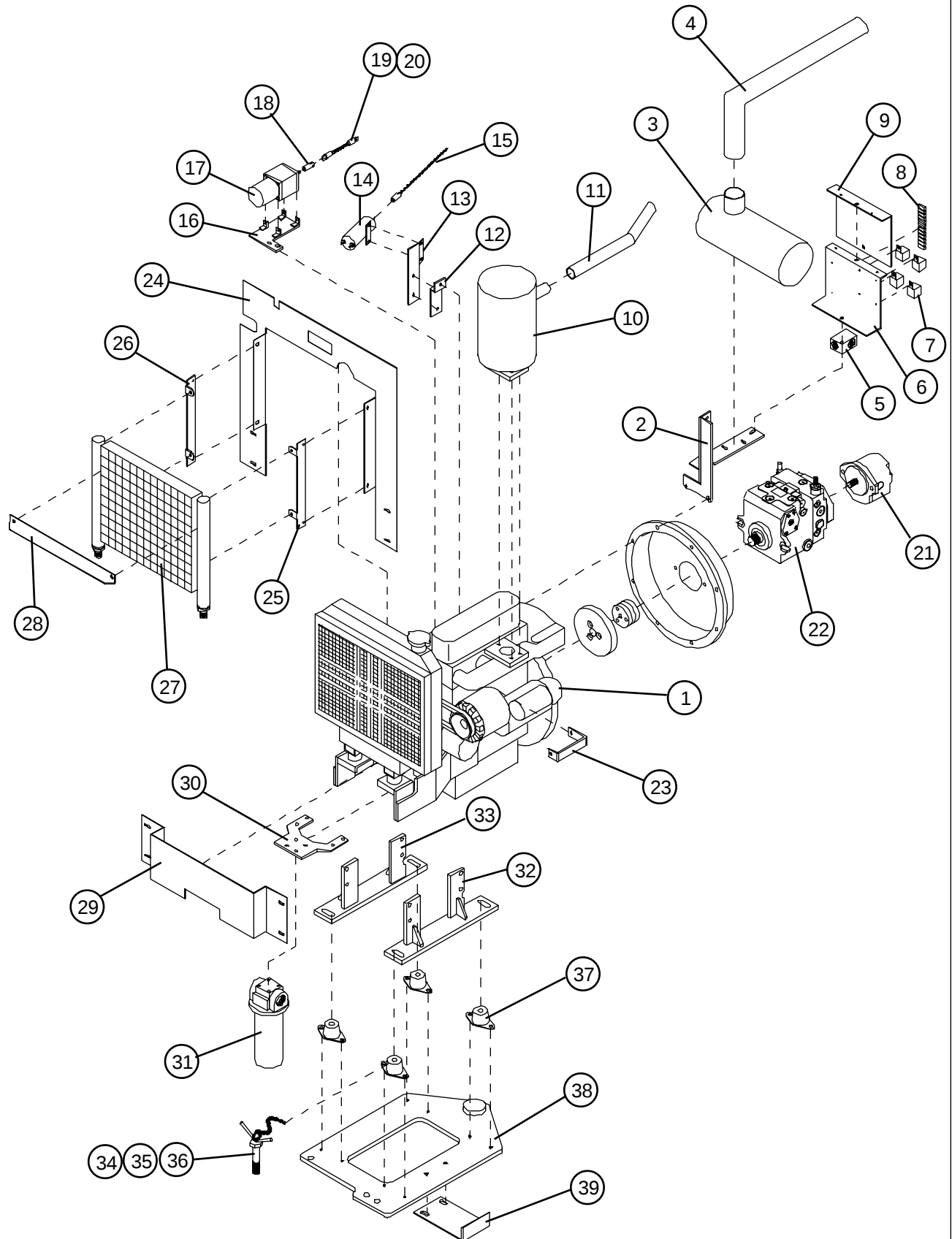


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FIGURE 6-25. BASE CONTROL/ELECTRICAL PANEL ASSEMBLY

Index No.	Skyjack Part No.	Description							Units per Assy.
		1	2	3	4	5	6	7	
		Parts List Continued from Page 49.							
25	707387	• GUARD, Lower control panel							1
	103962	•• BOLT, Machine head #10-32 x 1/2" lg.							AR
	104185	•• WASHER, Lock #10							AR
	104003	•• NUT, Hex #10-32							AR
26	701927	• GUARD, Toggle switch hinged							1
27	701445	• PLUG, Knockout 3/8"							1
28	(Ref.)	• LABEL, Base control panel							1
	706923	• LABEL, Dual fuel base control panel							AR
	707233	• LABEL, Diesel base control panel							AR
29	701523	• CABLE TIE MOUNT, Self-adhesive							1
30	102921	• DIODE, 6 Amp/1000PIV							5
31	706074	• SNAP-ON FERRITE CORE							1
32	703077	• STRAIN RELIEF, 3/4"							1
33	103041	• STRAIN RELIEF, 5/8"							2
34	103036	• STRAIN RELIEF, Strait plastic							7
35	707722	• WIRE HARNESS, Main manifold							1
36	707709	• WIRE HARNESS, Governor (All Kubota Engines)							1
	708958	• WIRE HARNESS, Governor (All Ford Engines)							1
37	707708	• WIRE HARNESS, Engine control							1
38	703720	• LIGHT, Indicator amber (diesel only)							1
39	708560	• SUB-ASSEMBLY DIODE							1
40	708559	• SUB-ASSEMBLY DIODE							1
41	702262	• PLUG, 1/2" Knockout (All Ford Engines)							1

FIGURE 6-26. ENGINE AND RELATED PARTS (Kubota - Gas and Dual Fuel)

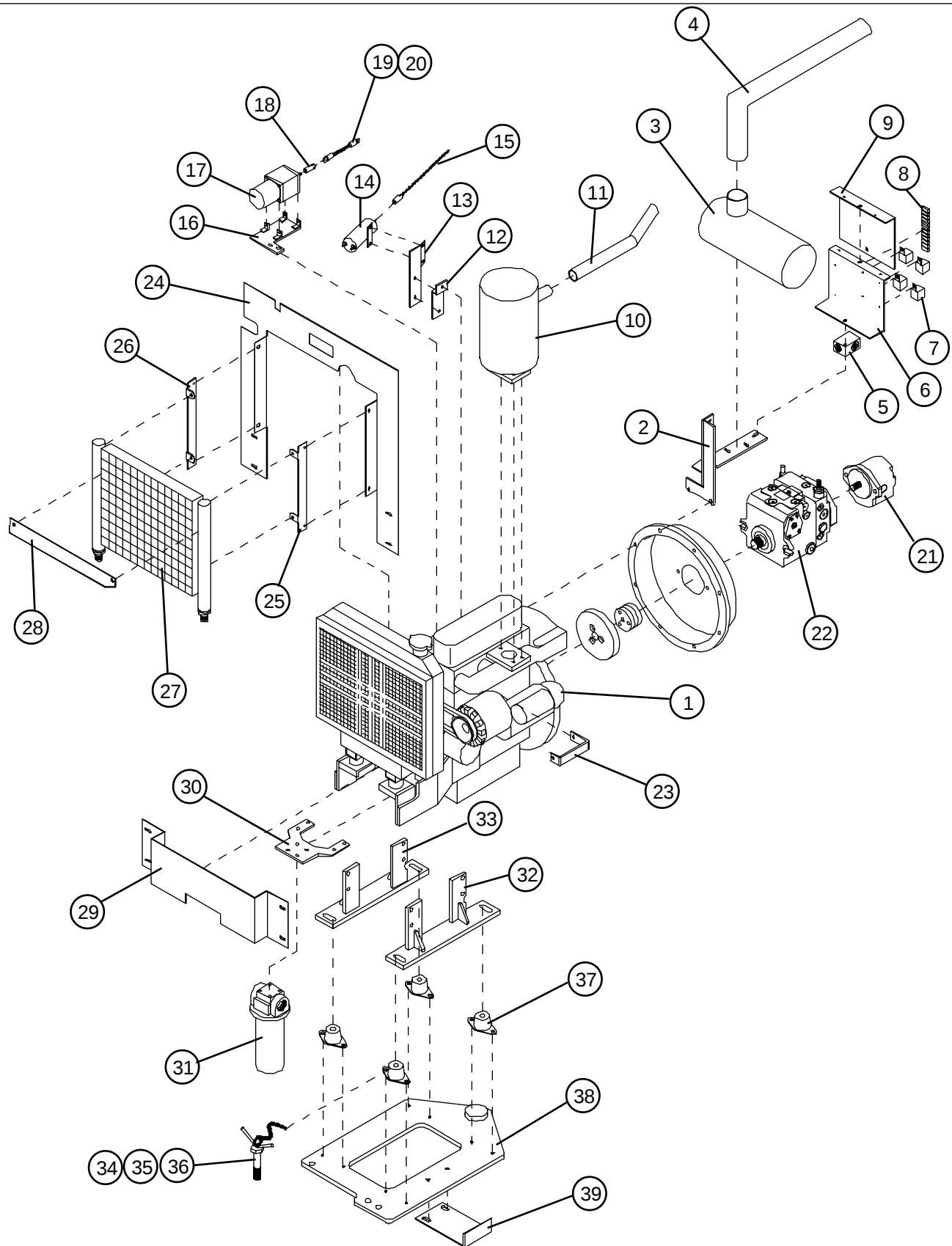


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FIGURE 6-26. ENGINE AND RELATED PARTS (Kubota - Gas and Dual Fuel)

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	\$	ENGINE ASSEMBLY, Kubota (gas only)	1
	704719	ENGINE ASSEMBLY, Kubota (with dual fuel kit)	1
	708407	• CARBURETOR	1
	111623	• SWITCH, Vacuum diaphragm	1
	(Ref.)	• ASSEMBLY, Fuel pump	-
	704812	•• HOSE, Fuel line	1
	115304	•• PUMP, Fuel	1
	703594	•• CLAMP, #6 Gear	3
	708660	•• HOSE, Fuel line 5/16 ID	1
	703049	•• FILTER, Fuel	1
2	708250	•• ASSEMBLY, Fuel line	1
	707742	WELDMENT, Air filter bracket	1
3	701054	• BOLT, HHCS 8M-1.25 x 40MM lg.	2
	708329	ASSEMBLY, Air cleaner	1
4	708330	• ELEMENT, Air filter	1
	708337	HOSE, Air cleaner intake	1
5	702557	• CLAMP, #40 Gear	2
	704949	VALVE, Shuttle cartridge	1
6	701850	• FITTING, Elbow 90° #4orb - #4	2
	701954	• FITTING, Connector #4orb - #4	1
7	706660	BRACKET, Terminal strip/Relay	1
	103860	• BOLT, HHCS 1/4-20 x 1-3/4 lg. grade 5	1
8	103995	• WASHER, Flat 1/4" SAE	1
	700583	• NUT, Lock 1/4-20	1
9	701943	RELAY, 12VDC Sealed	4
	103011	TERMINAL STRIP, Large	1
10	704665	COVER, Terminal strip/Relay	1
	707026	MUFFLER	1
11	103857	• BOLT, HHCS 1/4-20 x 1" lg. grade 5	3
	104000	• WASHER, Lock 1/4"	3
12	103980	• NUT, Hex 1/4-20	3
	707027	EXHAUST PIPE	1
13	707747	• CLAMP, Exhaust	1
	707070	MOUNTING PLATE	1
14	707110	MOUNTING PLATE, Choke solenoid	1
	707676	CHOKE SOLENOID	1
15	103856	• BOLT, HHCS 1/4-20 x 3/4" lg.	2
	104000	• WASHER, Lock 1/4"	2
16	103980	• NUT, Hex 1/4-20	2
	707886	ASSEMBLY, Clevis yoke/bead chain	1
17	708033	• BOLT, HHCS 4M-0.70 x 10MM lg.	1
	707299	BRACKET, Throttle solenoid	1
18	708271	• BOLT, HHCS 6M-1.0 x 16MM lg.	2
	707677	THROTTLE ACTUATOR, Linear	1
19	700549	• BOLT, SHCS #10-32 x 3/4" lg.	2
	701695	• NUT, Lock #10-32	2
20	707757	CLEVIS	1
	103857	• BOLT, HHCS 1/4-20 x 1" lg. grade 5	1
21	700583	• NUT, Lock 1/4-20	1
	707679	ROD END, Spherical	2
22	707783	LINK ARM	1
	103861	• BOLT, HHCS 1/4-20 x 2" lg. 1	1
23	707346	• SPACER	1
	707347	• MOUNTING PLATE, Throttle solenoid	1
24	700583	• NUT, Lock 1/4-20	1
	700841	• BOLT, Machine head #6-32 x 1/2" lg.	1
25	103985	• NUT, HEX #6-32	2
	704957	PUMP, Hydraulic system	1
26	103473	• BOLT, HHCS 3/8-16 x 1" lg. Grade 5	2
	103999	• WASHER, Lock 3/8"	2
27	103472	• WASHER, Flat 3/8"	2
	702119	• FITTING, Elbow 90° swivel #12 - #12	1
28	704582	• FITTING, Connector #10orb - #12	1
	703533	• FITTING, Elbow 90° #10orb - #8	1
Parts List Continued on Page 55.			

FIGURE 6-26. ENGINE AND RELATED PARTS (Kubota - Gas and Dual Fuel)

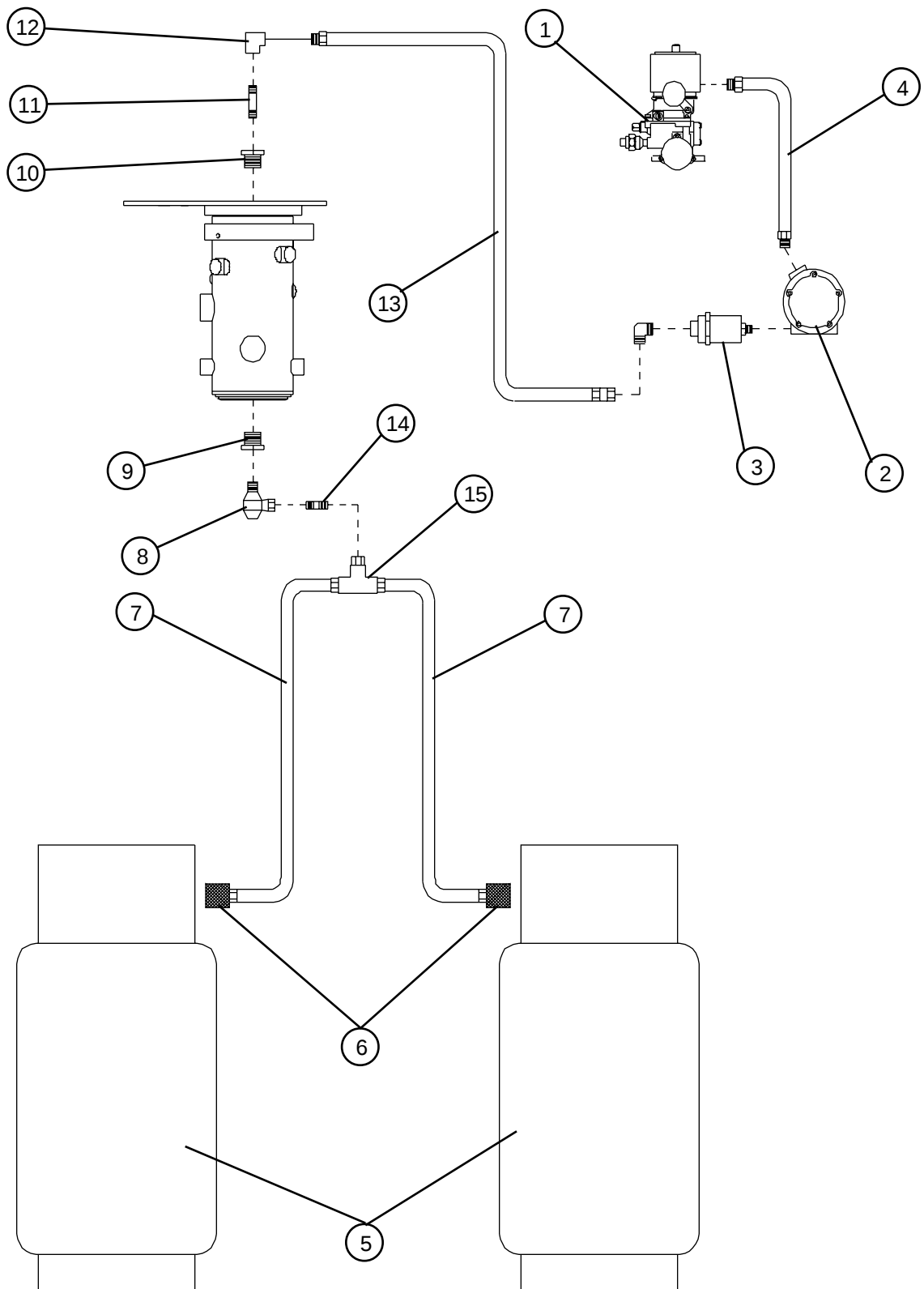


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FIGURE 6-26. ENGINE AND RELATED PARTS (Kubota - Gas and Dual Fuel)

Index No.	Skyjack Part No.	Description							Units per Assy.
		1	2	3	4	5	6	7	
22	703693	Parts List Continued from Page 53.							1
	103907	PUMP, Hydraulic drive							2
	103468	• BOLT, HHCS 1/2-13 x 1-1/2" lg grade 5							2
	103470	• WASHER, Flat 1/2" SAE							2
	704582	• WASHER, Lock 1/2"							1
	702119	• FITTING, Connector #10orb - #12							2
	707036	• FITTING, Elbow 90° swivel #12 - #12							2
	702233	• FITTING, Split flange #12 - #12							2
	701956	• Kit, Split flange seal							1
	103070	• FITTING, Connector #6orb - #4							1
	701850	• FITTING, Connector #8orb - #6							1
	703255	• FITTING, Elbow 90° #4orb - #4							1
	707039	• FITTING, Extra long elbow 90° #8orb - #6							1
	707041	• FITTING, Extra long elbow 90° #4orb - #4							1
	704492	• FITTING, Reducer #4 - #6							1
	707040	• FITTING, Elbow 90° #10orb - #6							1
	708243	• FITTING, Elbow 90° #16orb - #16							1
23	701054	PLATE, Radiator guard							1
	701056	• BOLT, HHCS 8M-1.25 - 40MM lg.							1
	701055	• WASHER, Lock 8M							1
	707242	• NUT, Hex 8M-1.25							1
24	706431	PLATE, Engine baffle							AR
	707072	• TRIM, Edge							1
25	707071	MOUNTING BRACKET, Oil cooler (right hand)							1
26	702031	MOUNTING BRACKET, Oil cooler (left hand)							1
27	103984	COOLER, Oil							2
	701879	• NUT, Lock 5/16-18							2
28	708591	• FITTING, Connector #16 - #12							1
	\$	MOUNTING BRACKET, Overflow reservoir							1
	710196	• BOTTLE, Overflow							1
	102893	• CLAMP, Hose							2
29	707285	• ZIP TIE							1
	103857	BOTTOM PLATE, Engine baffle							4
	103995	• BOLT, HHCS 1/4-20 x 1" lg. grade 5							4
	700583	• WASHER, Flat 1/4" SAE							4
30	707286	• NUT, Lock 1/4-20							1
	101632	BRACKET, Oil filter							4
	103472	• BOLT, HHCS 3/8-16 x 3/4" lg. grade 5							4
	104606	• WASHER, Flat 3/8"							4
31	706814	• NUT, Lock 3/8-16							1
	101632	FILTER, Medium pressure oil							4
	103999	• BOLT, HHCS 3/8-16 x 3/4" lg. grade 5							4
	109052	• WASHER, Lock 3/8"							2
32	704777	• FITTING, Connector #12orb - #6							1
	707637	WELDMENT, Engine mounting bracket							4
	103908	• BOLT, HHCS 10MM-1.25 x 30MM lg.							2
	103468	• BOLT, HHCS 1/2-20 x 1-1/2 lg. grade 5							2
	103470	• WASHER, Flat 1/2" SAE							2
33	704434	• WASHER, Lock 1/2"							1
	707637	WELDMENT, Engine mounting bracket							4
	103908	• BOLT, HHCS 10MM-1.25 x 30MM lg.							2
	103468	• BOLT, HHCS 1/2-20 x 1-1/2 lg. grade 5							2
	103470	• WASHER, Flat 1/2" SAE							2
34	105807	• WASHER, Lock 1/2"							1
35	707775	LANYARD, 6"							1
36	706448	SPLIT RING, 1"							1
37	702672	WELDMENT, Latch bolt							4
	103857	MOUNT, Motor							8
	103995	• BOLT, HHCS 1/4-20 x 1" lg. grade 5							8
38	706290	• WASHER, Flat 1/4" SAE							1
	707029	WELDMENT, Engine tray							1
	707046	• WASHER, Thrust							1
39	707698	• RETAINING RING, 2.25 Dia.							1
	702195	PLATE, Door rest							2
	103999	• BOLT, HHCS 3/8-16 x 1-1/2" lg. grade 5							2
	702929	• WASHER, Lock 3/8"							2
		• NUT, Hex jam 3/8-16							2

FIGURE 6-27. DUAL FUEL SYSTEM(Kubota)

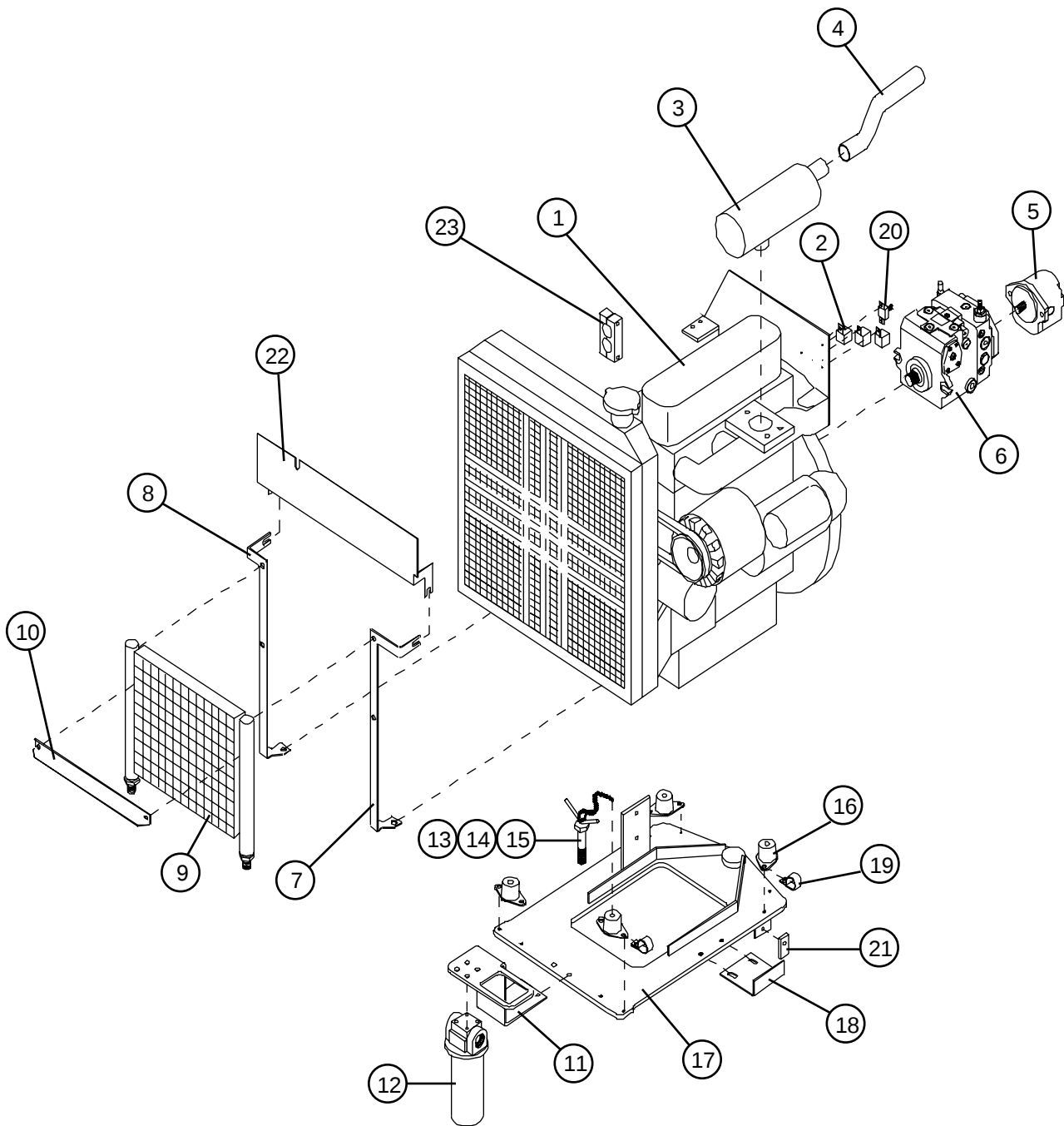


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FIGURE 6-27. DUAL FUEL SYSTEM(Kubota)

Index No.	Skyjack Part No.	Description							Units per Assy.
		1	2	3	4	5	6	7	
	\$	KIT, Dual fuel							-
1	708407	• CARBURETOR, LP							1
	\$	• VENTURI, #30 LP							1
2	\$	• BULKHEAD, LP							1
3	\$	• 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	704546	HOSE ASSEMBLY, Propane							2
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	707707	HOSE ASSEMBLY, 32" Propane							1
14	710320	PIPE NIPPLE, 1/4" Close							1
15	702237	FITTING, Brass female tee #4							1
		\$ Consult factory.							

FIGURE 6-28. ENGINE AND RELATED PARTS (Ford - Gas and Dual Fuel)

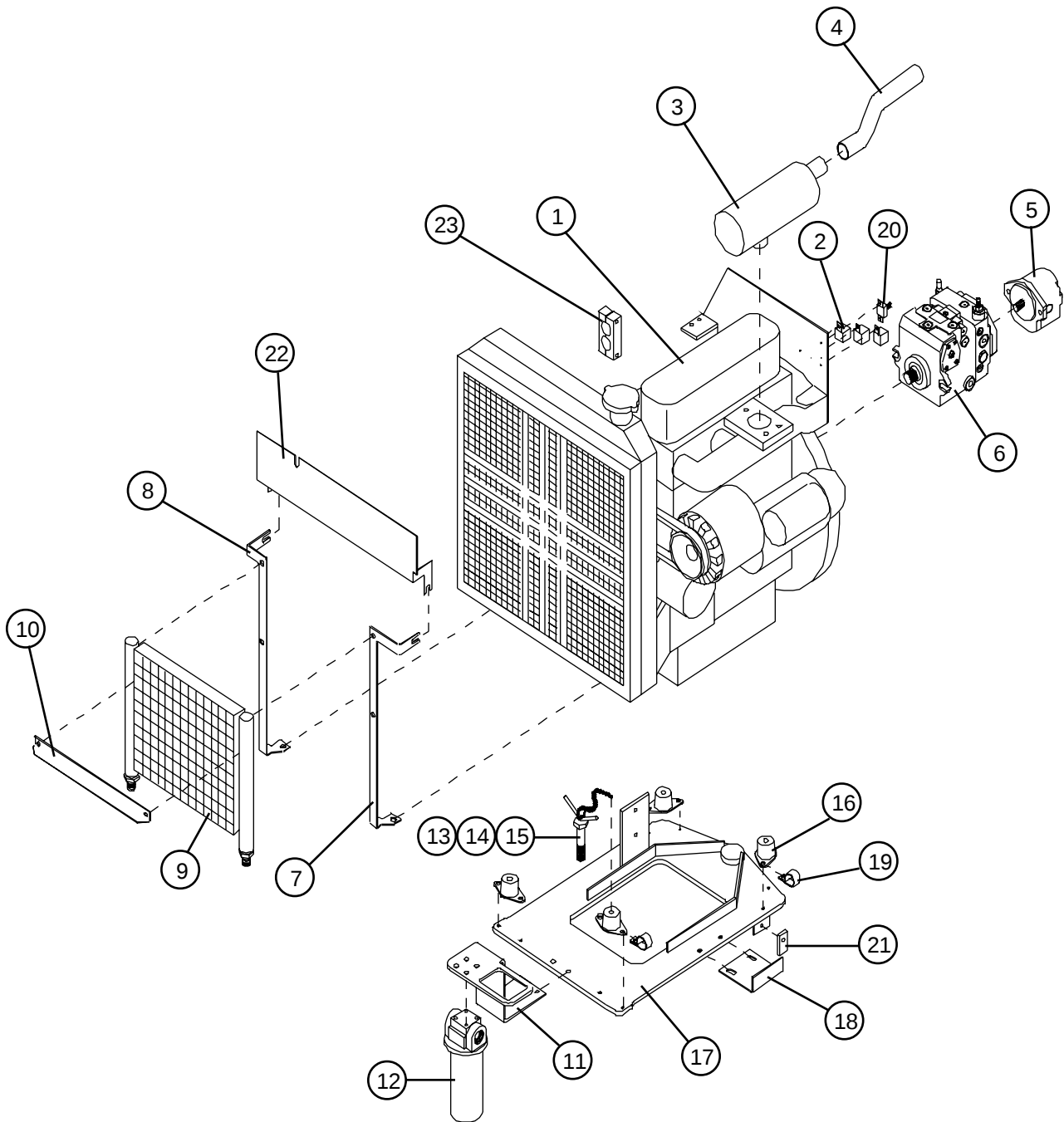


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FIGURE 6-28. ENGINE AND RELATED PARTS (Ford - Gas and Dual Fuel)

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	\$	ENGINE ASSEMBLY, Ford (gas only)	1
	708800	ENGINE ASSEMBLY, Ford (with dual fuel kit)	1
	711399	• FILTER, Oil	1
	703049	• FILTER, Fuel	1
	-----	• CARBURETOR ASSEMBLY	1
	708468	•• CARBURETOR, Gas	1
	\$	•• CARBURETOR, Propane attachment	1
	115387	• PUMP, Fuel	1
	708345	• AIR CLEANER ASSEMBLY	1
	708346	•• FILTER, Element primary	1
2	708347	• FILTER, Element safety	1
	701943	RELAY, 12VDC Sealed	3
	702659	• WASHER, Starr #10	3
3	103962	• BOLT, Mach-HD #10x32x1/2"	3
	708857	MUFFLER	1
	704618	• CLAMP, Exhaust 1-3/4"	1
	707758	• CLAMP, Exhaust 1-1/2"	1
4	706118	• PIPE, Threaded muffler 1 1/4" NPT	1
	707027	EXHAUST PIPE	1
5	707747	• CLAMP, Exhaust	1
	704957	PUMP, Hydraulic system	1
	103473	• BOLT, HHCS 3/8-16 x 1" lg. Grade 5	2
	103999	• WASHER, Lock 3/8"	2
	702119	• FITTING, Elbow 90° swivel #12 - #12	1
6	704582	• FITTING, Connector #10orb - #12	1
	703533	• FITTING, Elbow 90° #10orb - #8	1
	703693	PUMP, Hydraulic drive	1
	103907	• BOLT, HHCS 1/2-13 x 1-1/2" lg grade 5	2
	103468	• WASHER, Flat 1/2" SAE	2
	103470	• WASHER, Lock 1/2"	2
	704582	• FITTING, Connector #10orb - #12	1
	702119	• FITTING, Elbow 90° swivel #12 - #12	2
	707036	• FITTING, Split flange #12 - #12	2
	702233	• KIT, Split flange seal	2
	701956	• FITTING, Connector #6orb - #4	1
	103070	• FITTING, Connector #8orb - #6	1
	701850	• FITTING, Elbow 90° #4orb - #4	1
	703255	• FITTING, Extra long elbow 90° #8orb - #6	1
	707039	• FITTING, Extra long elbow 90° #4orb - #4	1
	707041	• FITTING, Reducer #4 - #6	1
	704492	• FITTING, Elbow 90° #10orb - #6	1
	707040	• FITTING, Elbow 90° #16orb - #16	1
7	708827	MOUNTING BRACKET, Oil cooler (right hand)	1
8	708826	MOUNTING BRACKET, Oil cooler (left hand)	1
Parts List Continued on Page 61.			

FIGURE 6-28. ENGINE AND RELATED PARTS (Ford - Gas and Dual Fuel)

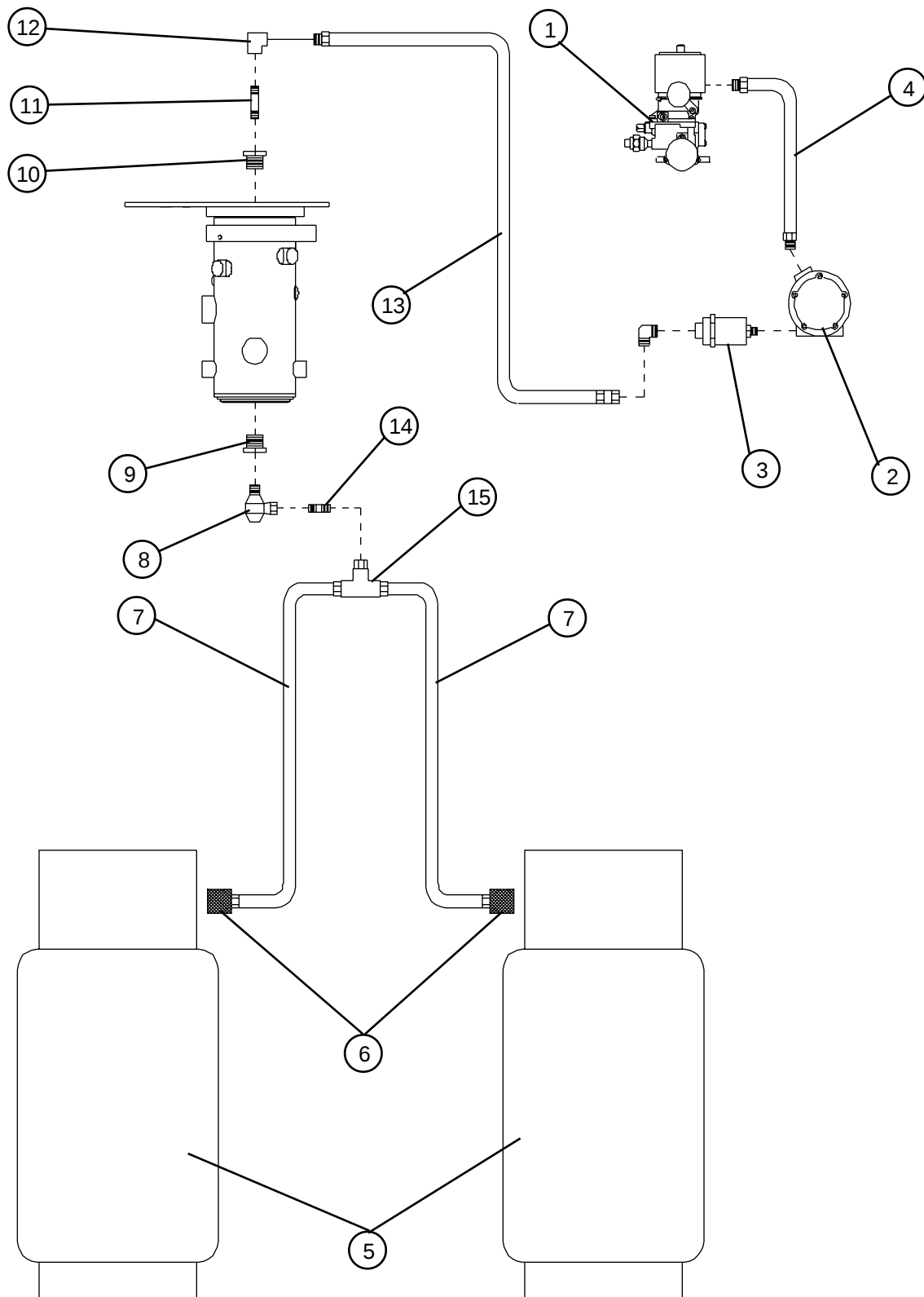


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FIGURE 6-28. ENGINE AND RELATED PARTS (Ford - Gas and Dual Fuel)

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
		Parts List Continued from Page 59.	
9	702031	COOLER, Oil	1
	103984	• NUT, Lock 5/16-18	2
	701879	• FITTING, Connector #16 - #12	2
	702120	• FITTING, Swivel nut elbow 45° #12 - #12	1
	708364	• MOUNTING KIT, Oil cooler	2
10	708591	MOUNTING BRACKET, Overflow reservoir	1
	\$	• BOTTLE, Overflow	1
	710196	• CLAMP, Hose	1
	708493	• ZIP TIE	2
11	708815	BRACKET, Oil filter	1
	702195	• BOLT, HHCS 3/8-16 x 1-1/2" lg. grade 5	4
	103999	• WASHER, Lock 3/8"	4
	103472	• WASHER, Flat 3/8"	4
	103978	• NUT, Hex 3/8-16	4
12	706814	FILTER, Medium pressure oil	1
	708333	• ELEMENT, Oil filter	1
	101632	• BOLT, HHCS 3/8-16 x 3/4" lg. grade 5	4
	103999	• WASHER, Lock 3/8"	4
	109052	• FITTING, Connector #12orb - #6	2
13	707774	LANYARD, 8"	1
14	707775	SPLIT RING, 1"	1
15	706448	WELDMENT, Latch bolt	1
16	702672	MOUNT, Motor	4
	103908	• BOLT, HHCS 1/2-20 x 1-1/2 lg. grade 5	1
	103468	• WASHER, Flat 1/2" SAE	1
	103470	• WASHER, Lock 1/2"	1
	103857	• BOLT, HHCS 1/4-20 x 1" lg. grade 5	2
	103995	• WASHER, Flat 1/4" SAE	2
17	708814	WELDMENT, Engine tray	1
18	708818	PLATE, Door rest	1
	702195	• BOLT, HHCS 3/8-16 x 1-1/2" lg. grade 5	2
	103999	• WASHER, Lock 3/8"	2
	702929	• NUT, Hex jam 3/8-16	2
19	704036	CLAMP, Hose	2
20	704616	RELAY, Delay on breah 10 sec.	1
	706351	• BOLT, Mach. Hd. #10-32 x 1 1/4" lg.	1
	104694	• WASHER, Flat #10	1
	104185	• WASHER, Lock #10	1
	104003	• NUT, Hex #10-32	1
21	708884	PLATE, Safety latch	1
22	709352	ENGINE BAFFLE, 40-RT and XRT	1
23	709451	CARRIER, Hose	1
	701503	• BOLT, HHCS 1/4-20 x 2 1/2" lg.	2
	103995	• WASHER, Flat 1/4"	2
	700583	• NUT, Lock 1/4-20	2

FIGURE 6-29. DUAL FUEL SYSTEM(Ford)

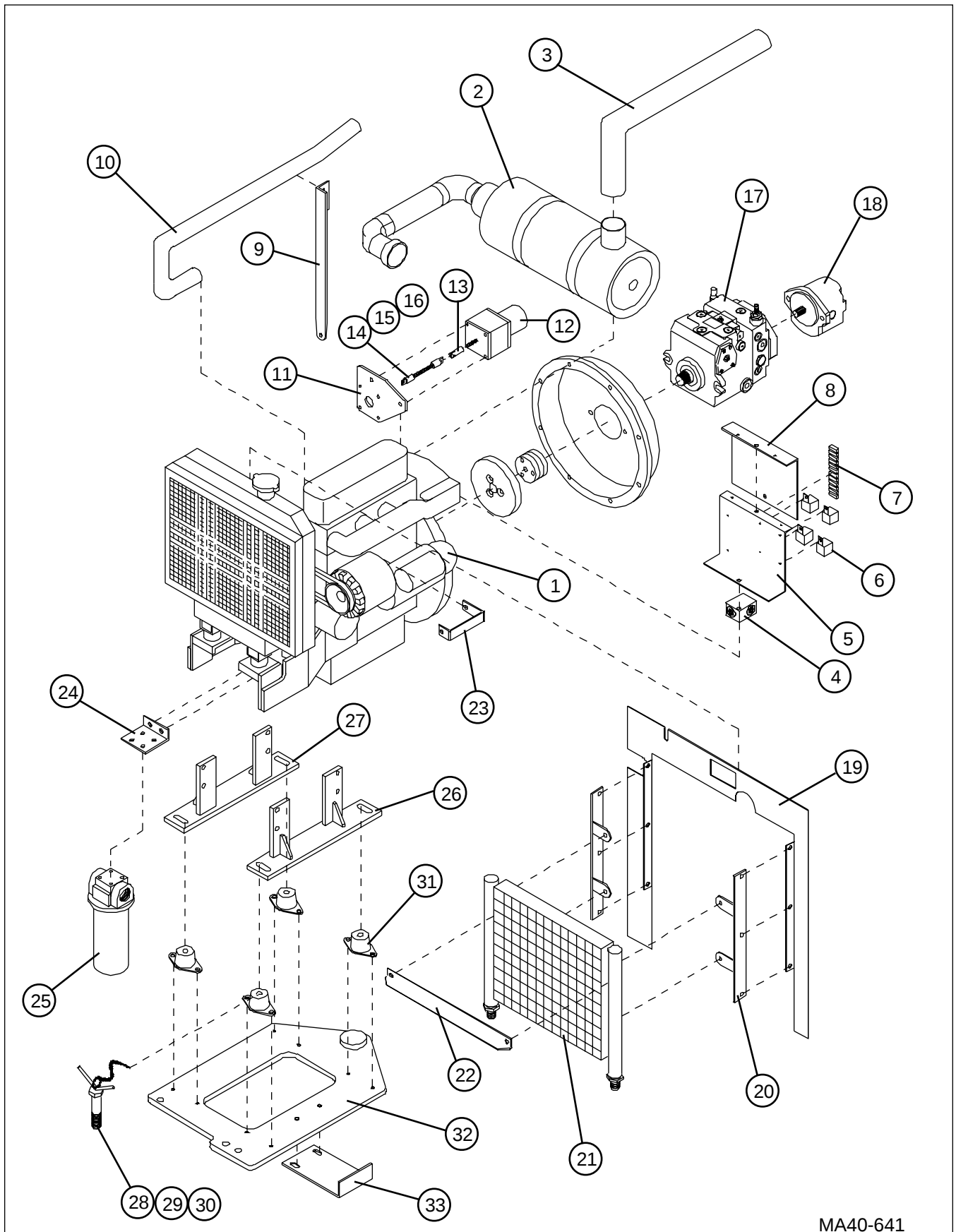


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FIGURE 6-29. DUAL FUEL SYSTEM(Ford)

Index No.	Skyjack Part No.	Description							Units per Assy.
		1	2	3	4	5	6	7	
	\$	KIT, Dual fuel							-
1	\$	• CARBURETOR, 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	704546	HOSE ASSEMBLY, Propane							2
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	708856	HOSE ASSEMBLY, 36" Propane							1
14	710320	PIPE NIPPLE, 1/4" Close							1
15	702237	FITTING. Brass female tee #4							1

FIGURE 6-30. ENGINE AND RELATED PARTS (Diesel)(Option)



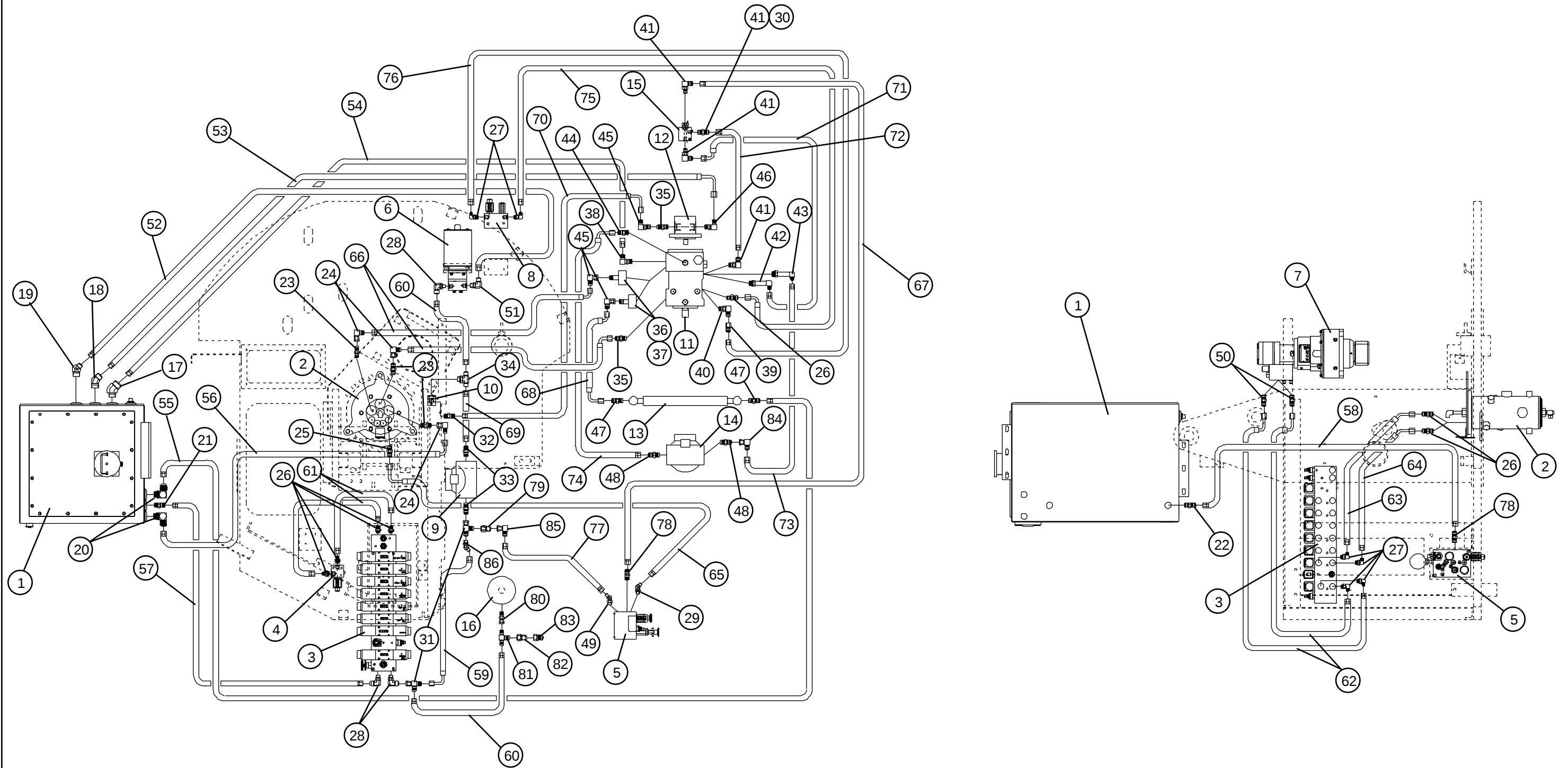
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FIGURE 6-30. ENGINE AND RELATED PARTS (Diesel) (Option)

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	706185	ENGINE ASSEMBLY, Kubota	1
	711459	• FILTER, Oil	1
	711458	• FILTER, Fuel	1
	119184	• ASSEMBLY, Glow plug	1
	708250	• ASSEMBLY, Fuel line	1
2	708334	ASSEMBLY, Air cleaner	1
	708335	• ELEMENT, Air filter	1
	702557	• CLAMP, #40 Gear	2
3	708337	HOSE, Air cleaner intake	1
	702557	• CLAMP, #40 Gear	2
4	704949	VALVE, Shuttle cartridge	1
	701850	• FITTING, Elbow 90° #4orb - #4	2
	701954	• FITTING, Connector #4orb - #4	1
5	706660	BRACKET, Terminal strip/Relay	1
	103860	• BOLT, HHCS 1/4-20 x 1-3/4 lg. grade 5	1
	103995	• WASHER, Flat 1/4" SAE	1
	700583	• NUT, Lock 1/4-20	1
6	701943	RELAY, 12VDC Sealed	4
7	103011	TERMINAL STRIP, Large	1
8	704665	COVER, Terminal strip/Relay	1
9	707651	WELDMENT, Exhaust pipe mounting bracket	1
10	707264	EXHAUST PIPE	1
	707758	• EXHAUST CLAMP, U-Shaped 1-1/2"	1
	707747	• EXHAUST CLAMP, U-Shaped 1-1/4"	1
11	706961	BRACKET, Throttle Solenoid	1
12	707675	THROTTLE SOLENOID	1
	103857	• BOLT, HHCS 1/4-20 x 1" lg. grade 5	4
	103995	• WASHER, Flat 1/4" SAE	4
	104000	• WASHER, Lock 1/4"	4
	103980	• NUT, Hex 1/4-20	4
13	707757	CLEVIS	1
	103857	• BOLT, HHCS 1/4-20 x 1" lg. grade 5	1
	700583	• NUT, Lock 1/4-20	1
14	707679	ROD END, Spherical	1
15	707782	LINK ARM	1
	703460	• NUT, Hex jam 1/4 fine	3
16	703463	ROD END, Studded spherical	1
17	703693	PUMP, Hydraulic drive	1
	103907	• BOLT, HHCS 1/2-13 x 1-1/2" lg. grade 5	2
	103468	• WASHER, Flat 1/2" SAE	2
	103470	• WASHER, Lock 1/2"	2
	704582	• FITTING, Connector #10orb - #12	1
	702119	• FITTING, Elbow 90° swivel #12 - #12	2
	707036	• FITTING, Split flange #12 - #12	2
	702233	• KIT, Split flange seal	2
	701956	• FITTING, Connector #6orb - #4	1
	103070	• FITTING, Connector #8orb - #6	1
	701850	• FITTING, Elbow 90° #4orb - #4	1
	703255	• FITTING, Extra long elbow 90° #8orb - #6	1
	707039	• FITTING, Extra long elbow 90° #4orb - #4	1
	707041	• FITTING, Reducer #4 - #6	1
	704492	• FITTING, Elbow 90° #10orb - #6	1
	707040	• FITTING, Elbow 90° #16orb - #16	1
18	704957	PUMP, Hydraulic system	1

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
	103473	• BOLT, HHCS 3/8-16 x 1" lg. Grade 5	2
	103999	• WASHER, Lock 3/8"	2
	103472	• WASHER, Flat 3/8"	2
	702119	• FITTING, Elbow 90° swivel #12 - #12	1
	704582	• FITTING, Connector #10orb - #12	1
	703533	• FITTING, Elbow 90° #10orb - #8	1
19	707241	PLATE, Engine baffle	1
20	706984	MOUNTING BRACKET, Oil cooler	2
21	702031	COOLER, Oil	1
	103984	• NUT, Lock 5/16-18	2
	701879	• FITTING, Connector #16 - #12	2
22	708591	MOUNTING BRACKET, Overflow reservoir	1
	\$	• BOTTLE, Overflow	1
	710196	• CLAMP, Hose	1
	708493	• ZIP TIE	2
23	708243	PLATE, Radiator guard	1
	701054	• BOLT, HHCS 8M-1.25 x 40MM lg.	1
	701056	• WASHER, Lock 8M	1
	701055	• NUT, Hex 8M-1.25	1
24	706661	BRACKET, Oil filter	1
	103473	• BOLT, HHCS 3/8-16 x 1" lg. grade 5	2
	103472	• WASHER, Flat 3/8"	2
	104606	• NUT, Lock 3/8-16	2
25	706814	FILTER, Medium pressure oil	1
	708333	• ELEMENT, Oil filter	1
	101632	• BOLT, HHCS 3/8-16 x 3/4" lg. grade 5	4
	103999	• WASHER, Lock 3/8"	4
	109052	• FITTING, Connector #12orb - #6	2
	702761	• FITTING, Swivel nut elbow 90° #6 - #6	1
26	704746	WELDMENT, Engine mounting bracket	1
	707637	• BOLT, HHCS 10MM-1.25 x 30MM lg.	2
	103908	• BOLT, HHCS 1/2-20 x 1-1/2 lg. grade 5	2
	103468	• WASHER, Flat 1/2" SAE	2
	103470	• WASHER, Lock 1/2"	2
27	704747	WELDMENT, Engine mounting bracket	1
	707637	• BOLT, HHCS 10MM-1.25 x 30MM lg.	2
	103908	• BOLT, HHCS 1/2-20 x 1-1/2 lg. grade 5	2
	103468	• WASHER, Flat 1/2" SAE	2
	103470	• WASHER, Lock 1/2"	2
28	105807	LANYARD, 6"	1
29	707775	SPLIT RING, 1"	1
30	706448	WELDMENT, Latch bolt	1
31	702672	MOUNT, Motor	4
	103857	• BOLT, HHCS 1/4-20 x 1" lg. grade 5	8
	103995	• WASHER, Flat 1/4" SAE	8
	700583	• NUT, Lock 1/4-20	8
32	706290	WELDMENT, Engine tray	1
	707029	• WASHER, Thrust	1
	707046	• RETAINING RING, 2.25 Dia.	1
33	707698	PLATE, Door rest	1
	702195	• BOLT, HHCS 3/8-16 x 1-1/2" lg. grade 5	2
	103472	• WASHER, Flat 3/8"	2
	103999	• WASHER, Lock 3/8"	2
	702929	• NUT, Hex jam 3/8-16	2

FIGURE 6-31. TURRET HYDRAULIC CONNECTIONS



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FIGURE 6-31. TURRET HYDRAULIC CONNECTIONS

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	706079	ASSEMBLY, Hydraulic tank	1
2	704344	ASSEMBLY, Rotary manifold	1
3	704269	ASSEMBLY, System manifold	1
4	704968	VALVE ASSEMBLY, Proportional control	1
5	704720	ASSEMBLY, Brake manifold	1
6	706921	PUMP/MOTOR ASSEMBLY, Emergency lowering	1
7	704287	ASSEMBLY, Speed reducer	1
8	704666	MANIFOLD ASSEMBLY, Low speed/torque	1
9	704476	OIL FILTER, High pressure	1
10	706833	CHECK VALVE, In line	1
11	703693	PUMP, Hydraulic drive	1
12	704957	PUMP, Hydraulic system	1
13	702031	COOLER, Oil	1
14	706814	OIL FILTER, Medium pressure	1
15	704949	VALVE, Shuttle cartridge	1
16	700903	ACCUMILATOR	1
17	707117	FITTING, Elbow 45° #12NPT - #16	1
18	707116	FITTING, Elbow 45° #12NPT - #12	1
19	706137	FITTING, Elbow 45° #12NPT - #8	1
20	702541	FITTING, Elbow 90° #12NPT - #12	2
21	707120	FITTING, Connector #12 - #8	1
22	703118	FITTING, Connector #6NPT - #6	1
23	702118	FITTING, Connector #12orb - #12	3
24	702119	FITTING, Elbow 90° female-#12 - #12	3
25	103069	FITTING, Connector #6orb - #6	1
26	701956	FITTING, Connector #6orb - #4	7
27	701999	FITTING, Elbow 90° #6orb - #4	6
28	110669	FITTING, Elbow 90° #6orb - #8	3
29	707742	FITTING, Elbow 45° #6orb - #6	1
30	701954	FITTING, Connector #4orb - #4 (Ford 1.3 Only)	1
31	706715	FITTING, Swivel nut tee #8 - #8 - #8	2
32	702116	FITTING, Connector #8orb - #8	1
33	707280	FITTING, Connector #12orb - #8	2
34	707995	FITTING, Branch tee #8orb - #8	1
35	704582	FITTING, Connector #10orb - #12	2
36	707036	FITTING, Split flange #12 - #12	2
37	702233	KIT, Split flange seal	2
38	707040	FITTING, Elbow 90° #16orb -#16	1
39	707041	FITTING, Reducer #4 - #6	1
40	704492	FITTING, Elbow 90° #10orb - #6	1
41	701850	FITTING, Elbow 90° #4orb - #4	4
		FITTING, Elbow 90° #4orb - #4 (Ford 1.3 Only)	3
42	703255	FITTING, Extra long elbow 90° #8orb - #6	1
43	707039	FITTING, Extra long elbow 90° #4orb - #4	1
44	103070	FITTING, Connector #8orb - #6	1
45	702119	FITTING, Elbow 90° swivel #12 -#12	3
46	703533	FITTING, Elbow 90° #10orb - #8	1
47	701879	FITTING, Connector, #16 - #12	2
48	109052	FITTING, Connector #12orb - #6	2
49	707234	FITTING, Elbow 45° #6orb - #4	1

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
50	707996	FITTING, Connector #10orb - #4	2
51	701998	FITTING, Elbow 90° #8orb - #8	1
52	707829	HOSE ASSEMBLY, (H108 0047 00-0)	1
53	708322	HOSE ASSEMBLY, (H612 0046 00-0)	1
54	708327	HOSE ASSEMBLY, (H2516 0040 00-0)	1
55	707831	HOSE ASSEMBLY, (H112 0089 00-0)	1
	708348	HOSE ASSEMBLY, (H112 0103 00-0)(Ford Engine Only)	1
56	706577	HOSE ASSEMBLY, (H612 0031 00-0)	1
57	707828	HOSE ASSEMBLY, (H108 0033 00-0)	1
58	708328	HOSE ASSEMBLY, (H106 0023 00-00	1
59	707840	HOSE ASSEMBLY, (H608 0029 00-0)	1
60	707841	HOSE ASSEMBLY, (H108 0028 00-0)	2
61	706568	HOSE ASSEMBLY, (H104 0013 00-0)	2
62	707838	HOSE ASSEMBLY, (H604 0043 00-0)	2
63	707832	HOSE ASSEMBLY, (H304 0046 00-0)	1
64	706556	HOSE ASSEMBLY, (H304 0043 00-0)	1
65	707834	HOSE ASSEMBLY, (H506 0034 00-0)	1
66	708326	HOSE ASSEMBLY, (H2412 0055 00-0)	2
	708353	HOSE ASSEMBLY, (H1912 0055 00-0)(Ford Engine Only)	2
67	708325	HOSE ASSEMBLY, (H2204 0056 00-0)	1
	708352	HOSE ASSEMBLY, (H2204 0030 00-0)(Ford Engine Only)	1
68	707830	HOSE ASSEMBLY, (H512 0038 00-0) (Diesel)	1
	707836	HOSE ASSEMBLY, (H512 0033 00-0) (Kabota-Dual Fuel)	1
	709399	HOSE ASSEMBLY, (H512 0041 00-0)(Ford-Dual Fuel)	1
69	707827	HOSE ASSEMBLY, (H108 0014 00-0)	1
70	707835	HOSE ASSEMBLY, (H508 0038 00-0)	1
71	708323	HOSE ASSEMBLY, (H2104 0021 00-0)	1
	708350	HOSE ASSEMBLY, (H2204 0038 00-0)(Ford Engine Only)	1
72	708324	HOSE ASSEMBLY, (H2204 0012 00-0)	1
	708351	HOSE ASSEMBLY, (H2204 0036 00-0)(Ford Engine Only)	1
73	707826	HOSE ASSEMBLY, (H106 0035 00-0)	1
		HOSE ASSEMBLY, (H606 0050 00-0)(Ford Engine Only)	1
74	707839	HOSE ASSEMBLY, (H606 0042 00-0)	1
	704530	HOSE ASSEMBLY, (H6060050 00-0)(Ford Engine Only)	1
75	707837	HOSE ASSEMBLY, (H604 0021 00-0)	1
76	707085	HOSE ASSEMBLY, (H104 0015 02-0	1
77	708969	HOSE ASSEMBLY, (H106 0028 00-0)(Ford 1.3 Only)	1
78	103069	FITTING, Connector #6orb - #6	2
	707742	FITTING, Elbow 45° #6orb - #6 (Ford 1.3 Only)	2
79	703046	FITTING, Tube reducer #6orb - #8	1
80	708517	FITTING, Swivel adapter #8orb - #8	1
81	708519	FITTING, Branch tee #8 #8 #8	1
82	708518	FITTING, Pipe adapter #8 #4	1
83	114520	FITTING, Quick disconnect	1
84	702761	FITTING, Swivel nut elbow 90° #6 - #6 (Kubota Diesel Only)	1
85	702761	FITTING, Swivel nut elbow 90° #6 - #6 (Ford 1.3 Only)	1
86	702813	FITTING, Swivel nut elbow 45° #8 - #8 (Ford 1.3 Only)	1
NOTE: Refer to Standard Hose Numbering System (SECTION 5, Page 30) for explanation of hose numbering.			

FIGURE 6-32. BASE, AXLES, AND WHEELS (Standard 4x2)

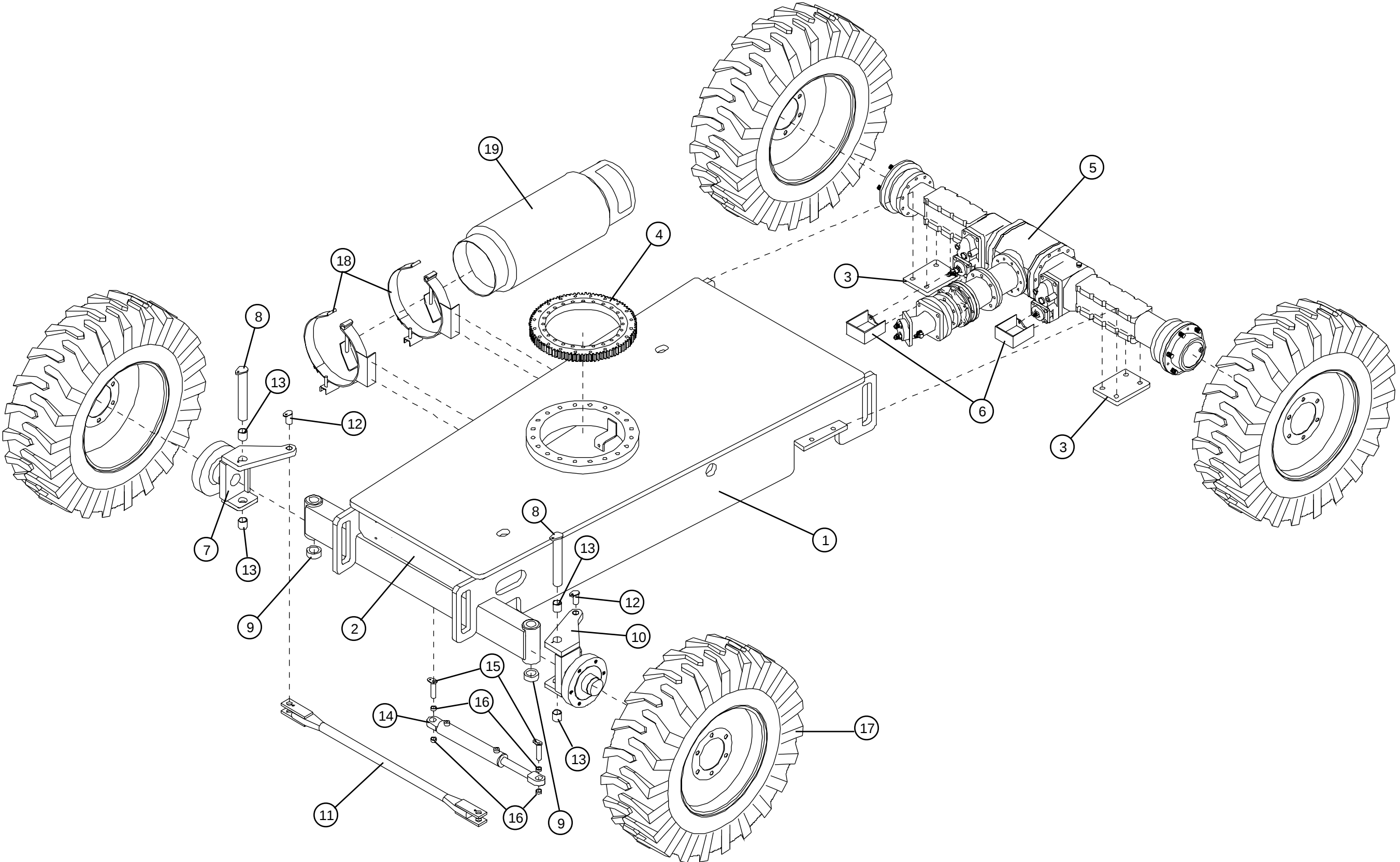
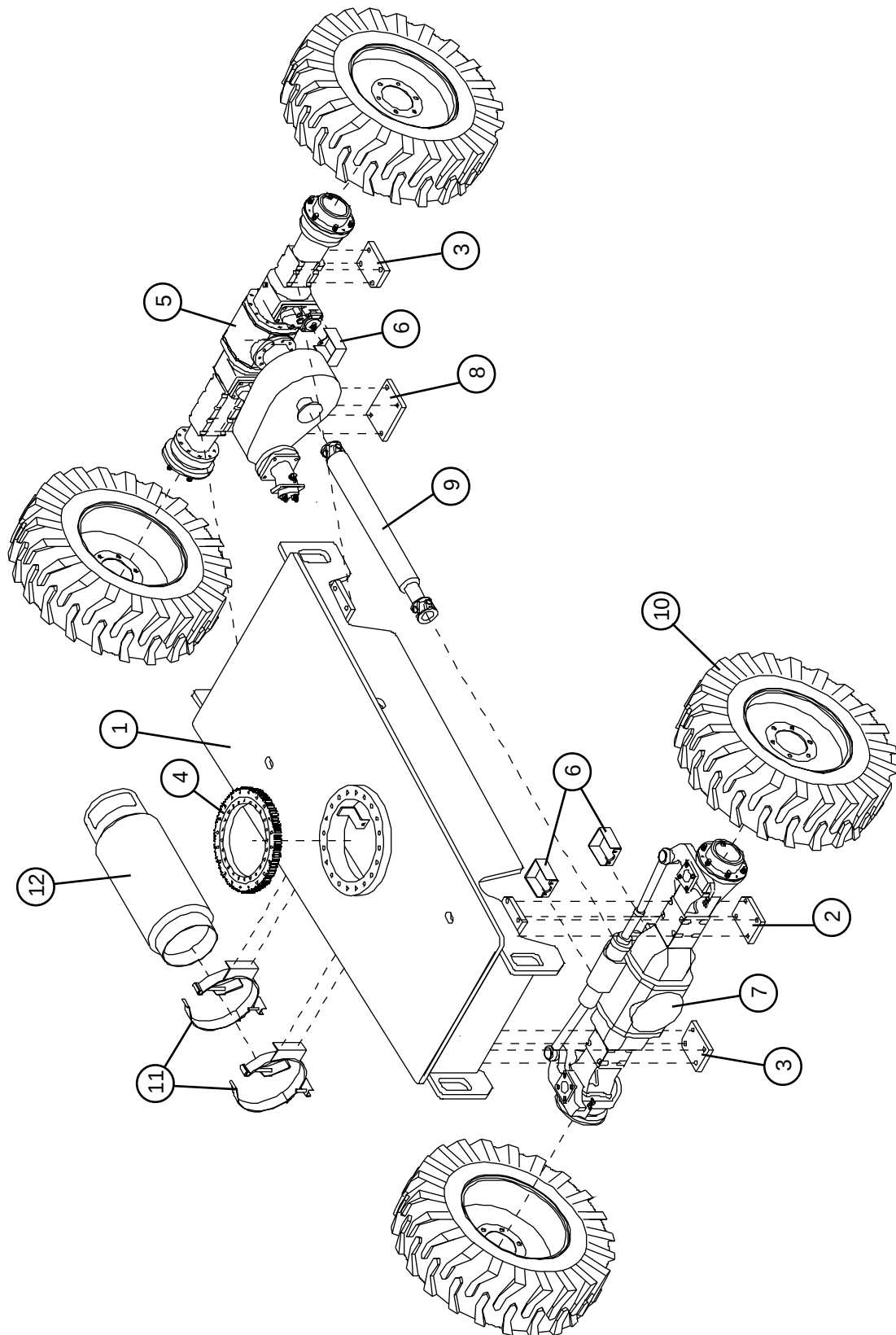


FIGURE 6-32. BASE, AXLES, AND WHEELS (Standard 4x2)

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	704150	WELDMENT, Base	1
2	706991	COVER PLATE, Axle	1
	101632	• BOLT, HHCS 3/8-16 x 3/4 lg. Grade 8	4
	103472	• WASHER, Flat SAE 3/8"	4
	103999	• WASHER, Lock 3/8"	4
3	700536	AXLE MOUNT PLATE, Bottom	2
	704844	• BOLT, HHCS 3/4-10 x 8" lg. Grade 8	4
	700575	• NUT, 3/4-10 Grade C Top Lock	4
4	703661	GEAR, Turret rotate	1
	701762	• BOLT, HHCS 5/8-11 x 4-1/2" Grade 8	20
	700782	• WASHER, Flat SAE 5/8" hard	20
	708304	• FITTING, 90° Grease zerk	1
5	704145	DRIVE AXLE ASSEMBLY (For components, refer to Figure 6-38.)	1
6	707022	GUARD WELDMENT, Brake fitting	2
7	701094	STEERING ASSEMBLY, Right (For components, refer to Figure 6-37.)	1
8	700291	KING PIN, Spindle	2
	103887	• BOLT, HHCS 5/16-18 x 3/4" lg.	2
	103404	• WASHER, Lock 5/16	2
	103216	• BUSHING 1-1/2" x 1-11/16" x 1-1/2" lg.	2
9	700262	THRUST BEARING	2
10	704146	STEERING ASSEMBLY, Left (For components, refer to Figure 6-37.)	1
11	700693	TIE BAR WELDMENT	1
12	700297	PIN, Tie bar	2
	703016	• BOLT, HHCS 5/16-18 x 5/8" lg.	2
	103404	• WASHER, Lock 5/16	2
13	103216	BUSHING 1-1/2" x 1-11/16" x 1-1/2" lg.	4
14	700783	STEER CYLINDER ASSEMBLY (For components, refer to Figure 6-36.)	1
15	700312	PIN, Steer cylinder	2
	103887	• BOLT, HHCS 5/16-18 x 3/4" lg.	2
	103404	• WASHER, Lock 5/16	2
16	700314	BUSHING, Spacer	4
17	701061	WHEEL ASSEMBLY, Standard 10 x 16.5	4
	701062	• RIM	1
	104088	• VALVE	1
	709347	• TIRE	1
	702030	WHEEL/TIRE ASSEMBLY, 10 x 16.5 Lug, foam filled (option)	4
	701672	WHEEL/TIRE ASSEMBLY, 31 x 15.5 Lug, flotation (option)	4
		NOTE - Items 18 thru 19 are for machines with Dual Fuel Option only.	
18	702633	BRACKETS, LP	1
19	702253	LP TANK, 43.5 lb. 240PSI	1
	704547	HOSE ASSEMBLY, LP	1
	702236	FITTING, LP 3400-4	1
	103006	FITTING, LP - Female tank	1

FIGURE 6-33. BASE, AXLES, AND WHEELS (Optional 4x4)

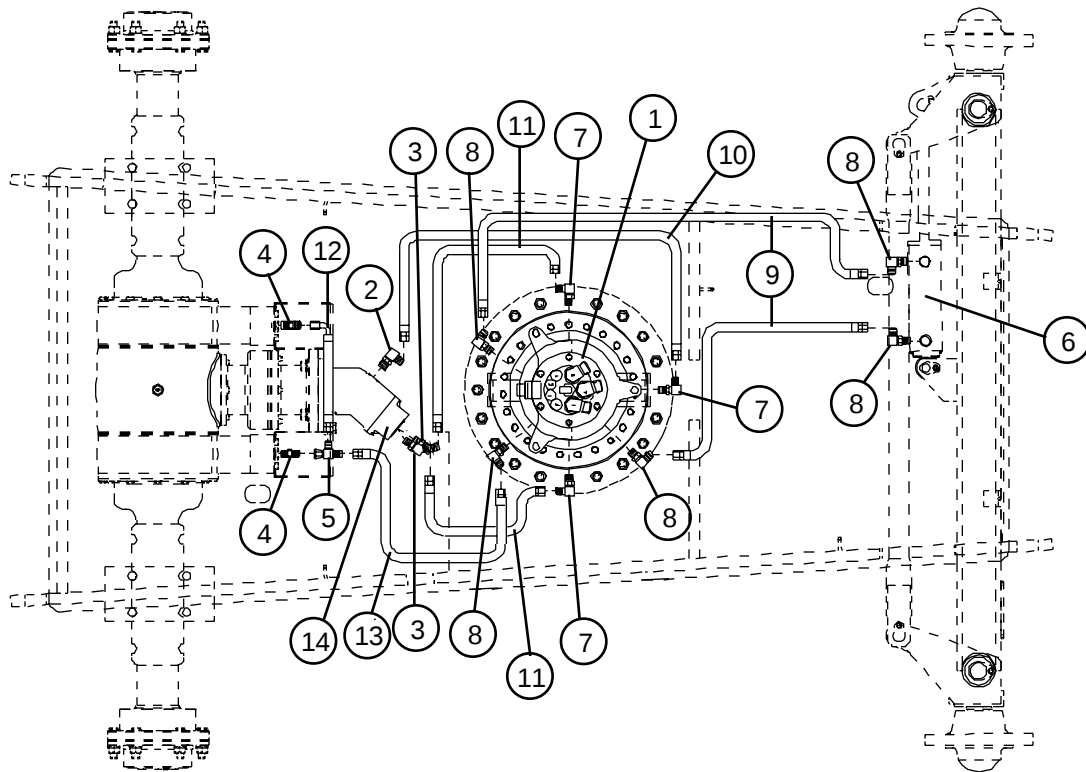


Ma40-620

FIGURE 6-33. BASE, AXLES, AND WHEELS (Optional 4x4)

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	707067	WELDMENT, Base	1
2	706991	PLATE, Axle mounting	1
	708959	• BOLT, HHCS 3/4-10 x 8-1/2" lg. Grade 8	4
	700575	• NUT, 3/4-10 Grade C Top Lock	4
3	706305	PLATE, Axle mounting	2
	708959	• BOLT, HHCS 3/4-10 x 8-1/2" lg. Grade 8	4
	700575	• NUT, 3/4-10 Grade C Top Lock	4
4	703661	GEAR, Turret rotate	1
	701762	• BOLT, HHCS 5/8-11 x 4-1/2" lg. Grade 8	20
	700782	• WASHER, Flat SAE 5/8" hard	20
	708304	• FITTING, 90° Grease zerk	1
5	706266	DRIVE AXLE ASSEMBLY (For components, refer to Figure 6-43.)	1
6	707022	GUARD WELDMENT, Brake fitting	3
7	706193	STEERING AXLE ASSEMBLY (For components, refer to Figure 6-42.)	1
	700498	• WHEEL NUT 18 x 1.5MM	12
	701956	• FITTING, Connector #6orb-#4	2
	702875	• FITTING, 90° #4orb-#4	2
8	706304	PLATE, Axle mounting	1
	708959	• BOLT, HHCS 3/4-10 x 8-1/2" lg. Grade 8	4
	700575	• NUT, 3/4-10 Grade C Top Lock	4
9	706960	DRIVE SHAFT	1
	702956	• BOLT, HHCS 7/16-20 UNF x 1-1/4 lg. Grade 8	8
	702991	• WASHER, Lock 7/16 heavy split	8
	702960	• NUT, HEX 7/16-20 UNF Grade 8	8
10	706267	WHEEL ASSEMBLY, Standard 10x16.5	4
	707153	• RIM	1
	104088	• VALVE	1
	709347	• TIRE	1
	707171	WHEEL/TIRE ASSEMBLY, 10x16.5 Lug, foam filled (option)	4
	710166	WHEEL/TIRE ASSEMBLY, 31x15 high flotation rib (option)	4
	708649	WHEEL/TIRE ASSEMBLY, 31x15.5 high flotation lug (option)	4
		NOTE - Items 11 thru 12 are for machines with Dual Fuel Option only.	
11	702633	BRACKETS, LP	1
12	702253	LP TANK, 43.5 lb. 240PSI	1
	704547	HOSE ASSEMBLY, LP	1
	702236	FITTING, LP 3400-4	1
	103006	FITTING, LP - Female tank	1

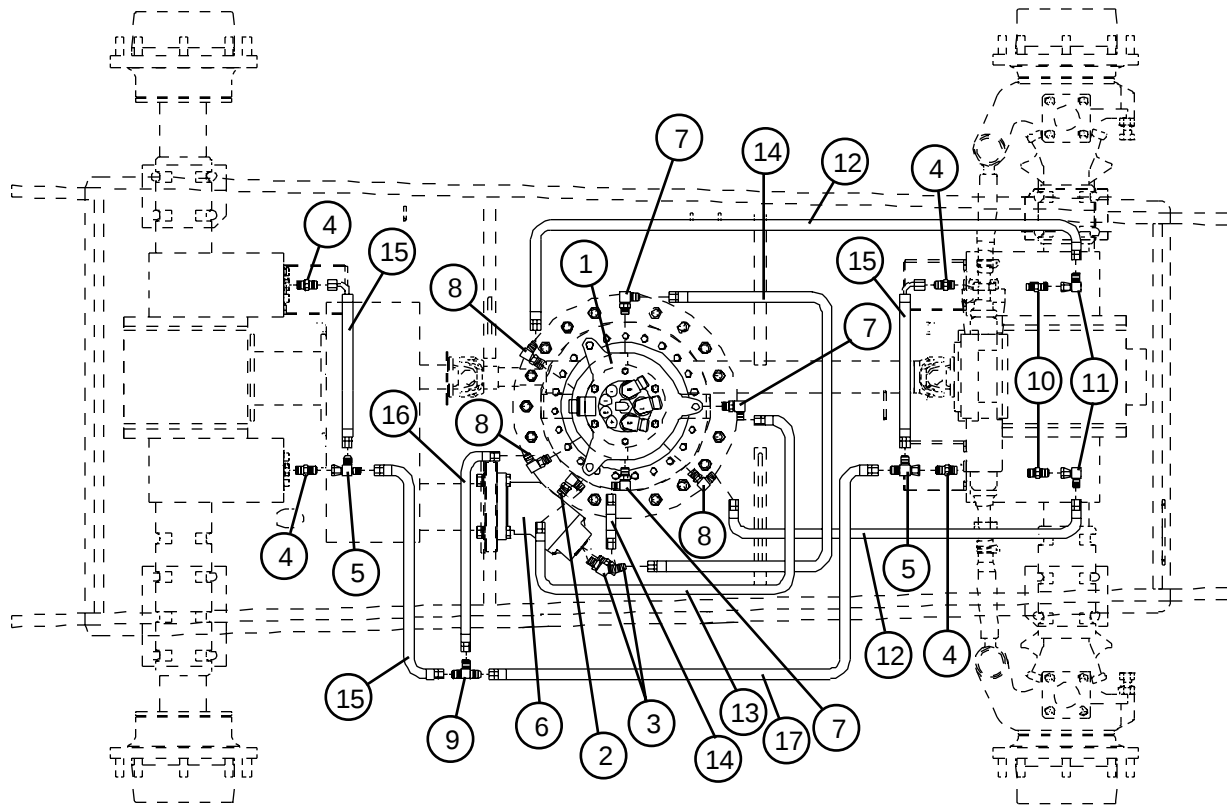
FIGURE 6-34. BASE ASSEMBLY HYDRAULIC CONNECTIONS (Standard 4x2)



Ma40-622

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	704343	MANIFOLD, Rotary	1
2	702438	FITTING, 90° #8orb-#12	1
3	707622	FITTING, 45° #16orb-#12	2
4	700817	FITTING, Connector #14orb-#6	2
5	702382	FITTING, Swivel Tee #6-#6	1
6	700783	STEERING CYLINDER (For components, refer to Figure 6-36.)	1
7	702117	FITTING, 90° #12-#12	3
8	701999	FITTING, 90° #6orb-#4	5
9	703877	HOSE ASSEMBLY (H104 0050 00-0)	2
10	707816	HOSE ASSEMBLY (H112 0028 00-0)	1
11	707817	HOSE ASSEMBLY (H212 0042 00-0)	2
12	704554	HOSE ASSEMBLY (H606 0024 00-0)	1
13	704530	HOSE ASSEMBLY (H606 0050 00-0)	1
14	704958	DRIVE MOTOR	1
NOTE: Refer to Standard Hose Numbering System (SECTION 5, Page 30) for explanation of hose numbering.			

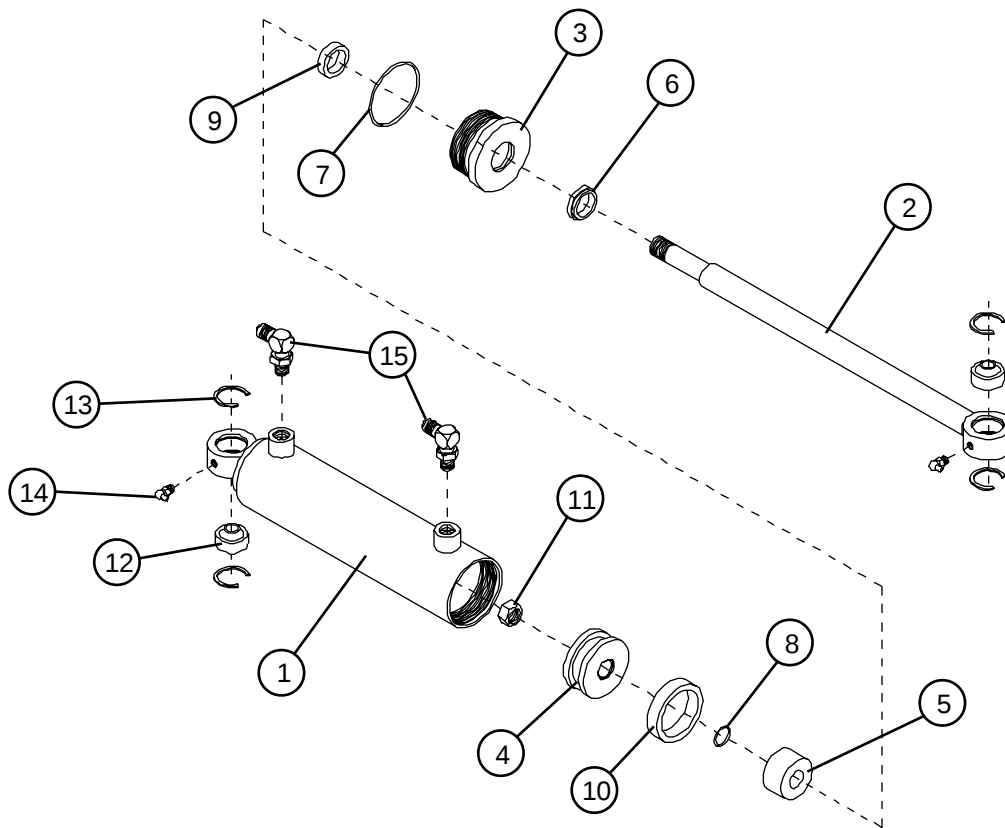
FIGURE 6-35. BASE ASSEMBLY HYDRAULIC CONNECTIONS (Optional 4x4)



Ma40-623

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	704343	MANIFOLD, Rotary	1
2	702438	FITTING, 90° #8orb-#12	1
3	707622	FITTING, 45° #16orb-#12	2
4	700817	FITTING, Connector #14orb-#6	4
5	702382	FITTING, Swivel Tee #6-#6	2
6	704958	DRIVE MOTOR	1
7	702117	FITTING, 90° #12-#12	3
8	701999	FITTING, 90° #6orb-#4	3
9	702991	FITTING, Union Tee #6-#6-#6	1
10	701956	FITTING, Connector, #6orb-#4	2
11	702875	FITTING, 90° Swivel nut #4-#4	2
12	703877	HOSE ASSEMBLY (H104 0050 00-0)	2
13	707816	HOSE ASSEMBLY (H112 0028 00-0)	1
14	707817	HOSE ASSEMBLY (H212 0042 00-0)	2
15	704554	HOSE ASSEMBLY (H606 0024 00-0)	3
16	707819	HOSE ASSEMBLY (H106 0020 00-0)	1
17	707818	HOSE ASSEMBLY (H606 0034 00-0)	1
NOTE: Refer to Standard Hose Numbering System (SECTION 5, Page 30) for explanation of hose numbering.			

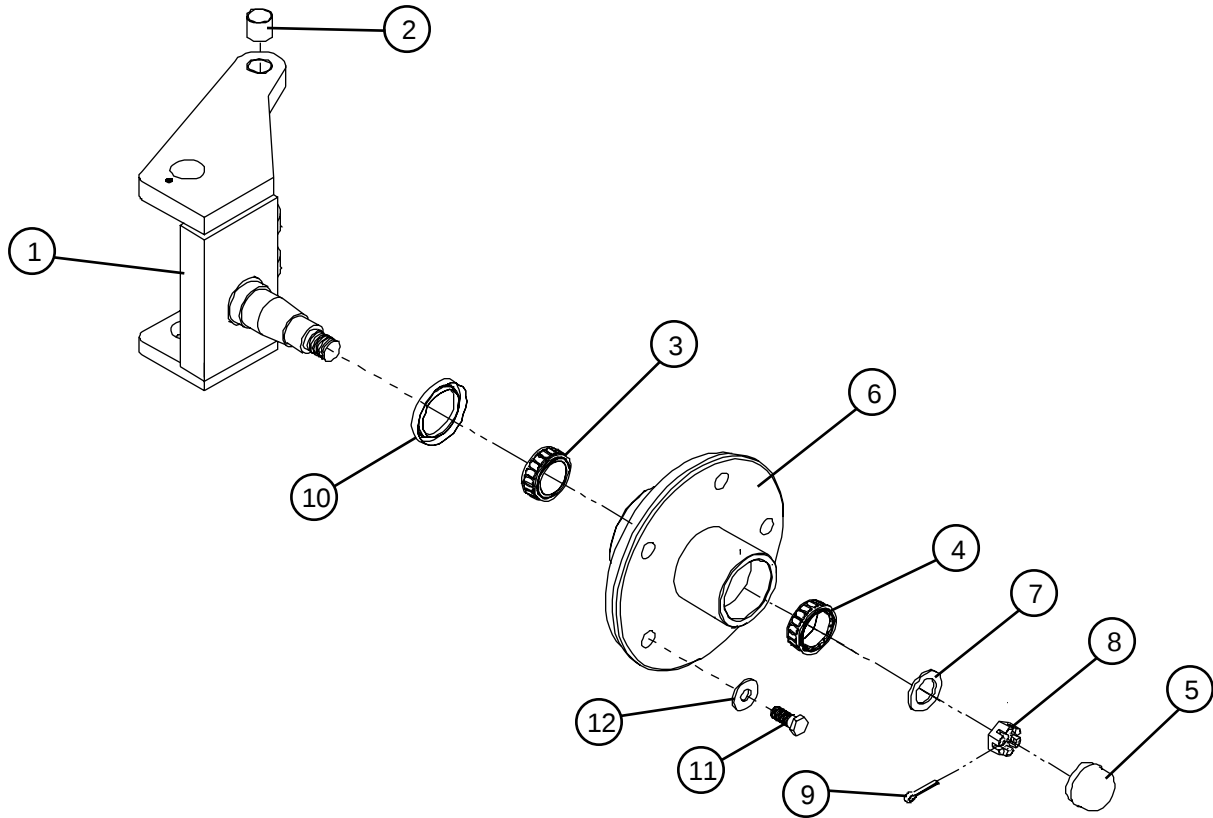
FIGURE 6-36. STEERING CYLINDER (Standard 4x2)



Ma40-625

Index No.	Skyjack Part No.	Description							Units per Assy.
		1	2	3	4	5	6	7	
	700783	CYLINDER ASSEMBLY, Steering							-
1	700784	• WELDMENT, Cylinder barrel							1
2	700992	• WELDMENT, Cylinder rod							1
3	700786	• GLAND, Cylinder							1
4	700787	• PISTON, Cylinder							1
5	700788	• SPACER, Cylinder							1
*6	106449	• WIPER, Rod							1
*7	701965	• O-RING, Gland							1
*8	701634	• O-RING, Piston							1
*9	108798	• SEAL, Gland							1
*10	700585	• SEAL, Piston							1
11	700575	• NUT, Lock 3/4-10 Grade C							1
12	102025	BEARING, Spherical							2
13	104114	RING, Retaining							4
14	700510	NIPPLE, Grease 1/8NPT - 90°							2
15	103073	FITTING, 90° #6orb-#4							2
	701076	KIT, Seal repair							AR
		* Part of Seal Repair Kit.							

FIGURE 6-37. STEERING ASSEMBLIES (Standard 4x2)

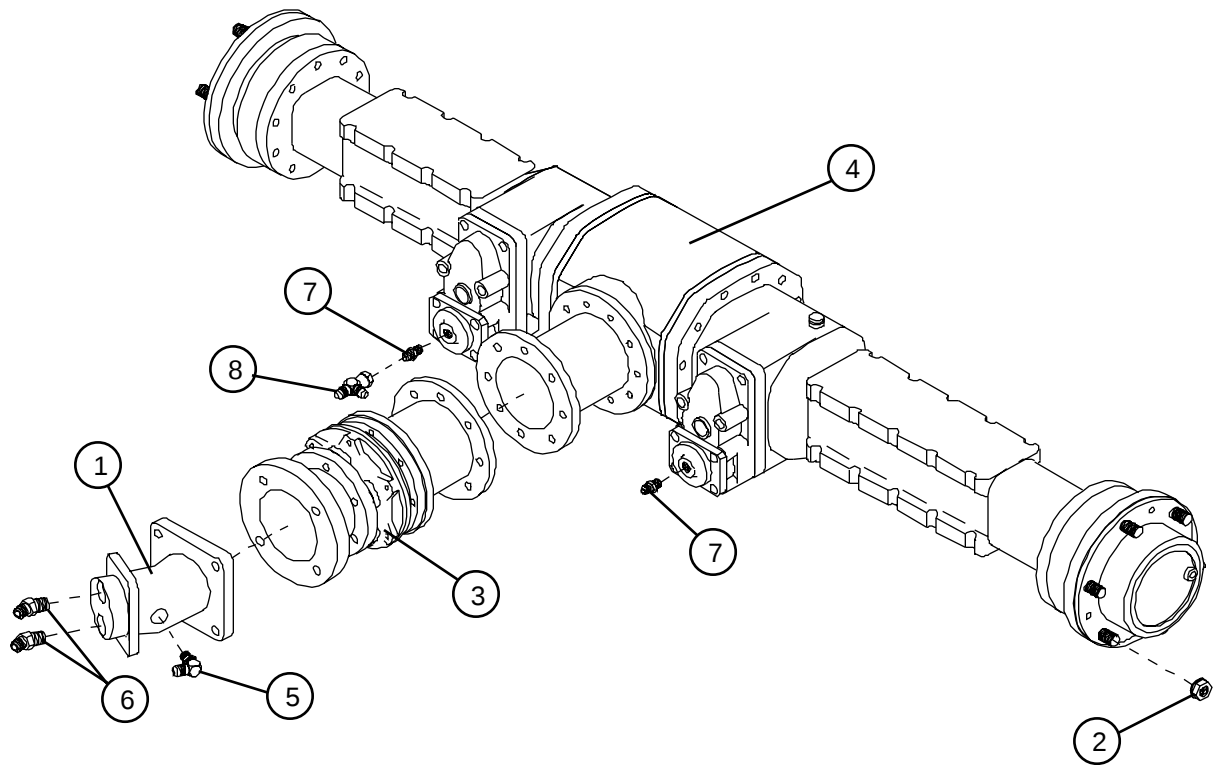


Ma40-629

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	704740	SPINDLE WELDMENT, Left (w/bushing)	1
	701096	SPINDLE WELDMENT, Right (w/bushing)	1
2	100309	• BUSHING, 1"x1-1/8"x1" lg.	1
(Ref.)	700463	HUB ASSEMBLY	1
3	700471	• BEARING, Inner	1
	700472	•• BEARING CUP, Inner	1
4	700469	• BEARING, Outer	1
	700470	•• BEARING CUP, Outer	1
5	700467	• DUST CAP	1
6	700464	• HUB	1
7	102646	• WASHER, Flat	1
8	104351	• NUT, Castle 1"	1
9	700508	• PIN, Cotter 3/16 x 2" lg.	1
10	700466	• SEAL, Grease	1
11	700468	WHEEL BOLT, 5/8-18x1-1/2 gr. 5	6
12	700782	WASHER, Flat SAE 5/8" hard	6

NOTES

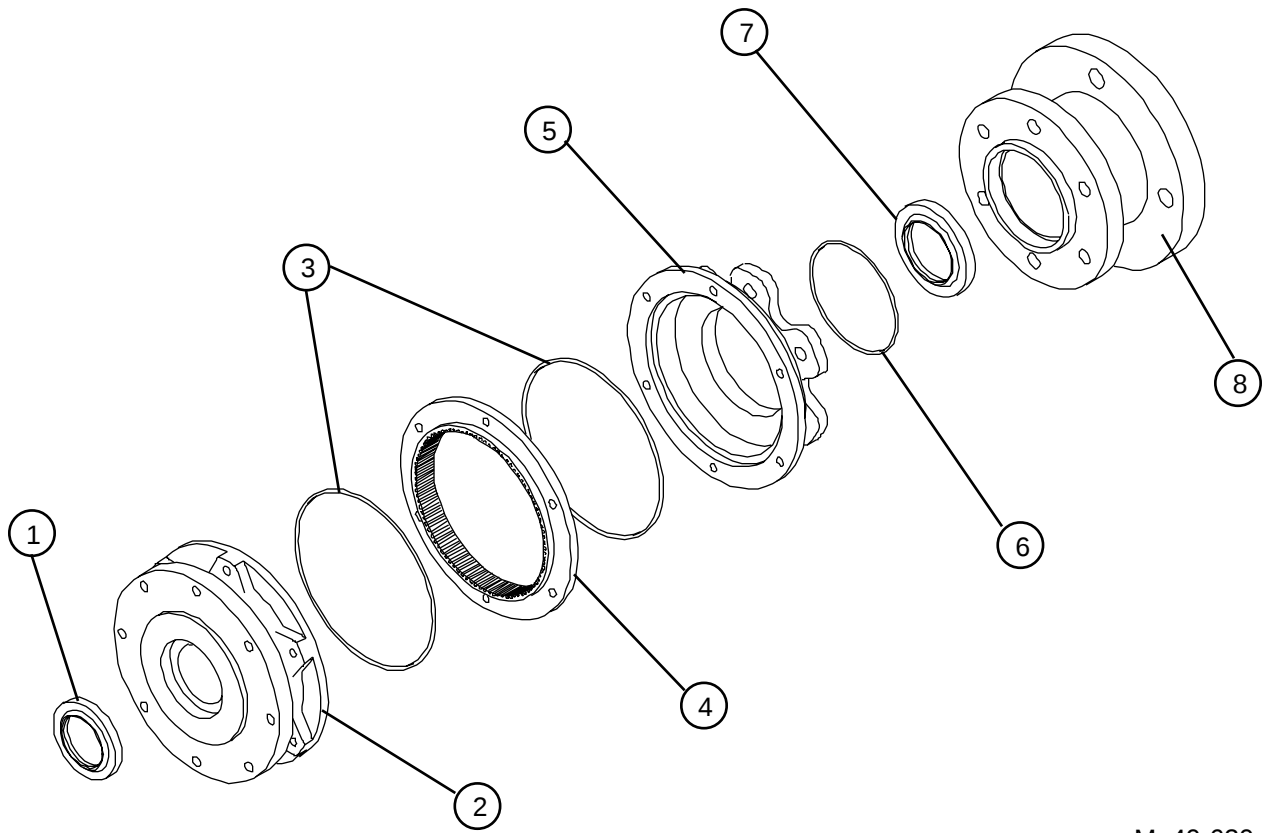
FIGURE 6-38. DRIVE AXLE ASSEMBLY (Standard 4x2)



Ma40-626

Index No.	Skyjack Part No.	Description							Units per Assy.
		1	2	3	4	5	6	7	
	704145	DRIVE AXLE ASSEMBLY (Standard 4X2)							-
1	704958	• DRIVE MOTOR							1
	711406	• • KIT, Seal							1
	703057	• • BOLT, HHCS 9/16-12x2-1/2							4
	704829	• • WASHER, Flat 9/16							4
	702192	• • WASHER, Lock 9/16							4
	702899	• • NUT, HEX 9/16-12							4
2	700498	• WHEEL NUT 18x1.5MM							12
3	701047	• PLANETARY (For components, refer to Figure 6-39/40.)							1
	701054	• • BOLT, HHCS 8MM-1.25 x 40MM lg.							8
	701056	• • WASHER, Lock 8MM							8
	701055	• • NUT, Hex 8MM-1.25							8
4	701053	• DRIVE AXLE (For components, refer to Figure 6-41.)							1
5	702438	• FITTING, 90° #8orb-#12							1
6	707622	• FITTING, 45° #16orb-#12							2
7	700817	• FITTING, Connector #14orb-#6							2
8	702382	• FITTING, Swivel nut tee #6-#6							1

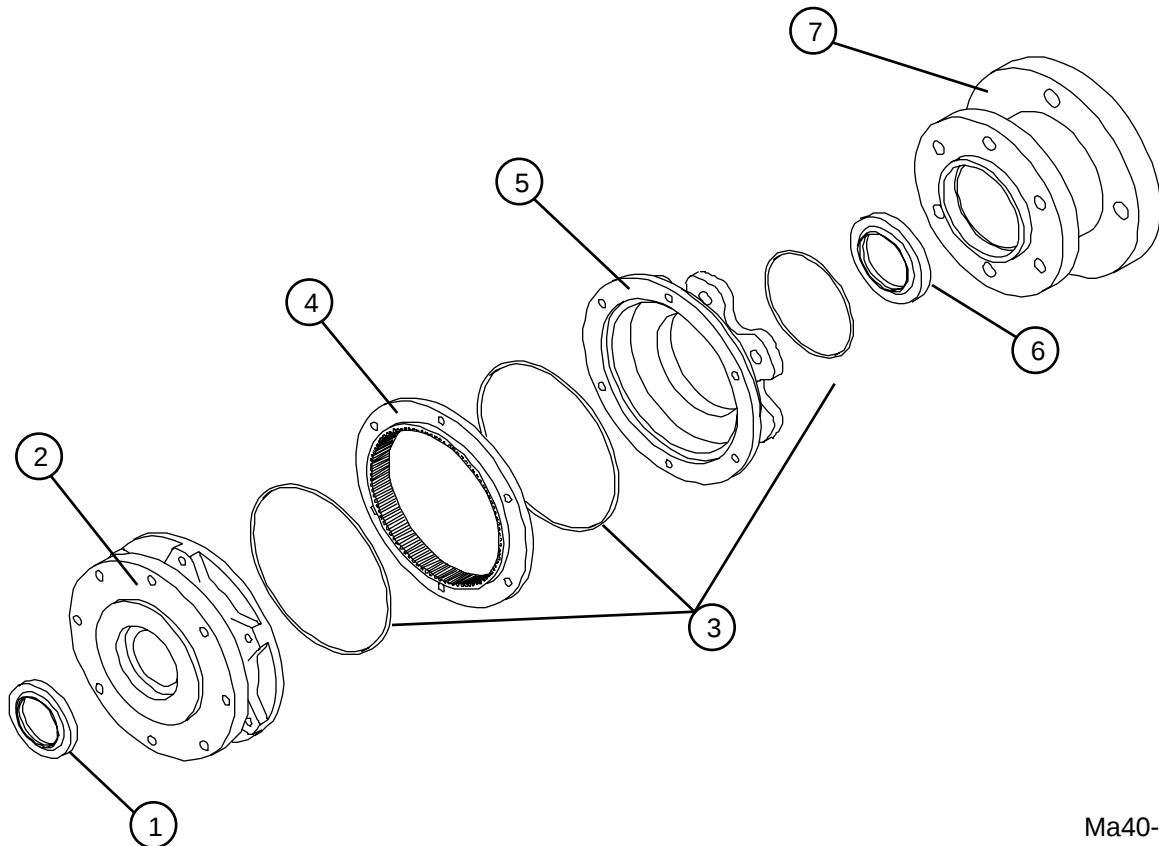
FIGURE 6-39. PLANETARY REDUCTION GEAR ASSEMBLY (Brevini)



Ma40-630

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	701942	O-RING SEAL, Input adapter							1
7	701842	LIP SEAL, Input adapter							1
8	701030	HOUSING, Input adapter							1
		\$ Consult factory							

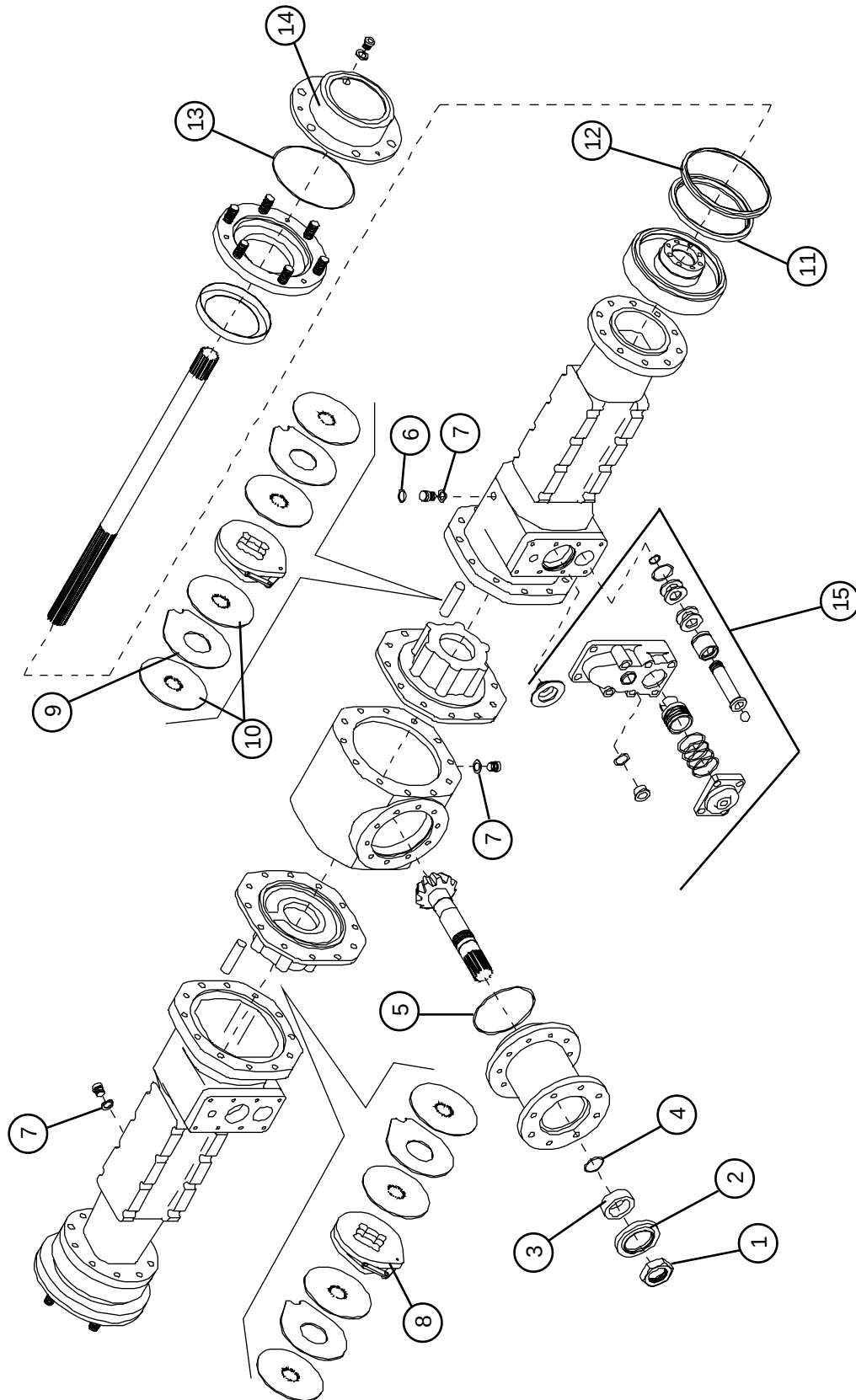
FIGURE 6-40. PLANETARY REDUCTION GEAR ASSEMBLY (Sige)



Ma40-631

Index No.	Skyjack Part No.	Description							Units per Assy.
		1	2	3	4	5	6	7	
1	701960	LIP SEAL, Output housing							1
2	\$	HOUSING, Output							1
3	701961	O-RING SEAL							3
4	\$	RING GEAR							1
5	\$	HOUSING, Input							1
6	701962	LIP SEAL, Input adapter							1
7	\$	HOUSING, Input adapter							1
		\$ Consult factory							

FIGURE 6-41. DRIVE AXLE (Standard 4x2)

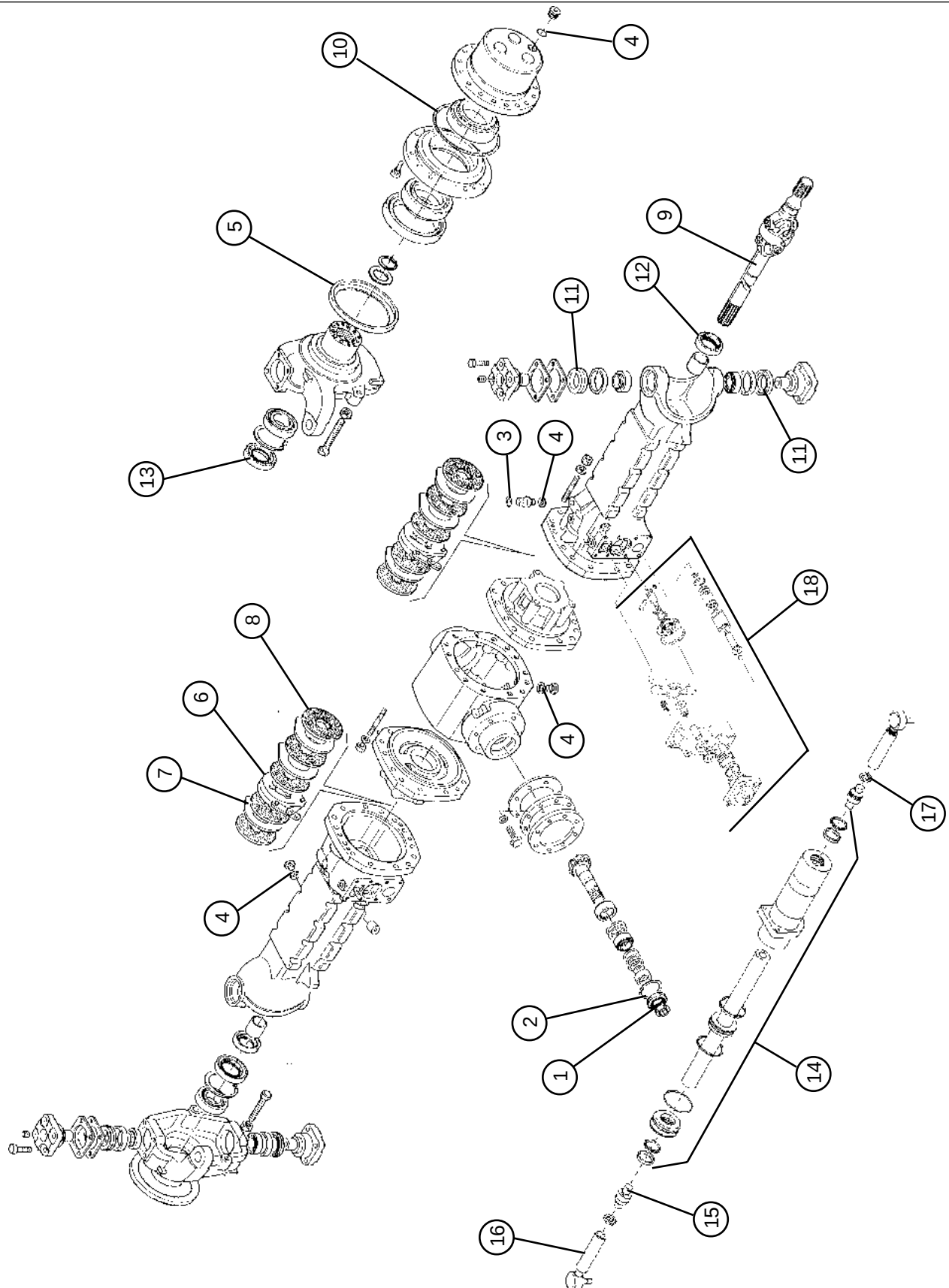


Ma40-633

FIGURE 6-41. DRIVE AXLE (Standard 4x2)

Index No.	Skyjack Part No.	Description							Units per Assy.
		1	2	3	4	5	6	7	
	701053	DRIVE AXLE							-
1	701836	RETAINING NUT, Pinion lock							1
2	701837	OIL SEAL, Pinion shaft							1
3	701838	OIL SEAL SPACER, Pinion shaft							1
4	701839	O-RING, Pinion shaft							1
5	701848	O-RING, Pinion flange							1
6	701851	O-RING, Breather plug							1
7	701843	WASHER, Oil plug gasket							5
8	701845	ACTUATOR, Brake							2
9	701846	BRAKE DISK, Intermediate							4
10	701847	BRAKE DISK							8
11	701808	OIL SEAL, Wheel flange							2
12	701889	DUST COVER, Wheel flange							2
13	701809	O-RING, Wheel flange							2
14	702003	COVER, Torque hub							2
15	(Ref.)	BRAKE ASSEMBLY (For components, refer to Figure 6-46.)							2

FIGURE 6-42. STEER AXLE ASSEMBLY (Optional 4x4)

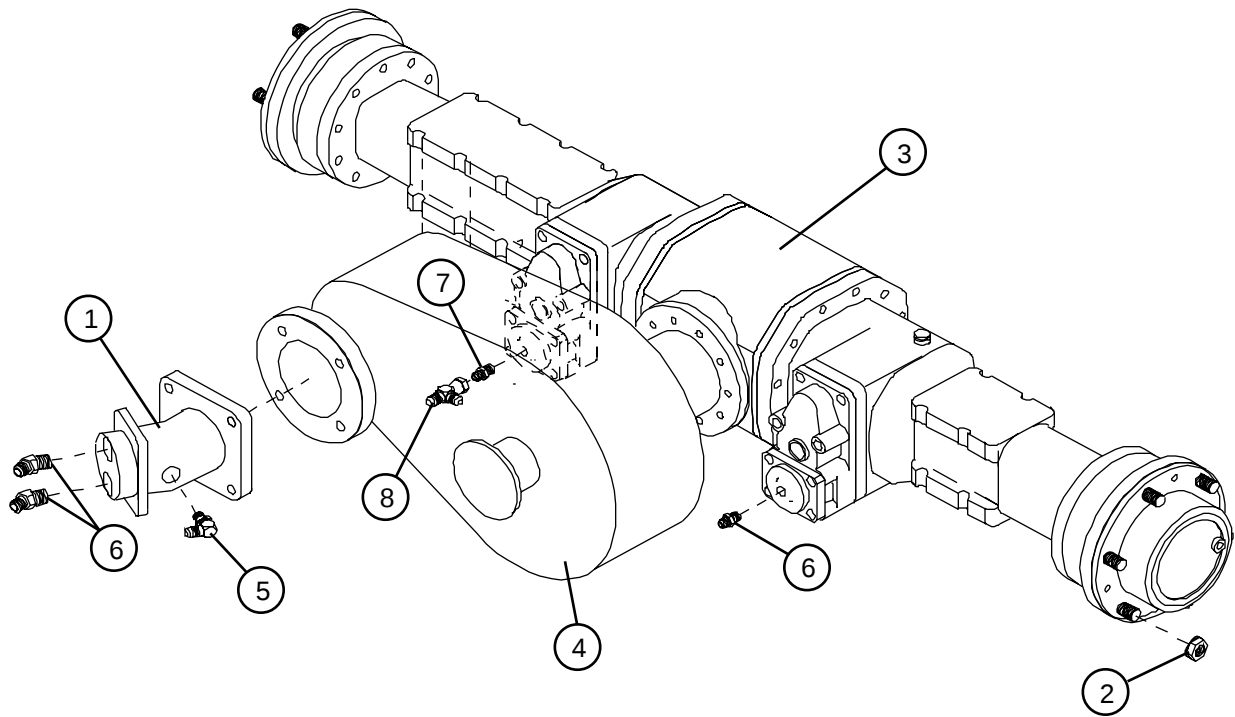


Ma40-77

FIGURE 6-42. STEER AXLE ASSEMBLY (Optional 4x4)

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
	706193	AXLE ASSEMBLY, Steer	-
1	\$	• NUT, Pinion retaining	1
2	\$	• OIL SEAL, Pinion	1
3	\$	• SEAL, O-ring	1
4	\$	• WASHER, Oil plug	5
5	\$	• COVER, Dust	2
6	\$	• ACTUATOR, Brake	2
7	\$	• BRAKE DISK, Intermediate	6
8	\$	• BRAKE DISK, Friction	10
9	\$	• SHAFT ASSEMBLY, Axle	2
	\$	•• JOINT, Universal	4
10	\$	• SEAL, O-ring	2
11	\$	• SEAL, Oil	4
12	\$	• SEAL, Shaft	2
13	\$	• SEAL, Shaft	2
14	708441	• CYLINDER ASSEMBLY, Steer	1
	708408	•• KIT, Seal repair	AR
15	\$	• JOINT, Axial	2
16	\$	• TIE ROD END	2
17	\$	• NUT, Steer arm	2
18	(Ref.)	• BRAKE ASSEMBLY (For components, refer to Figure 6-46.)	2
		\$ Consult factory	

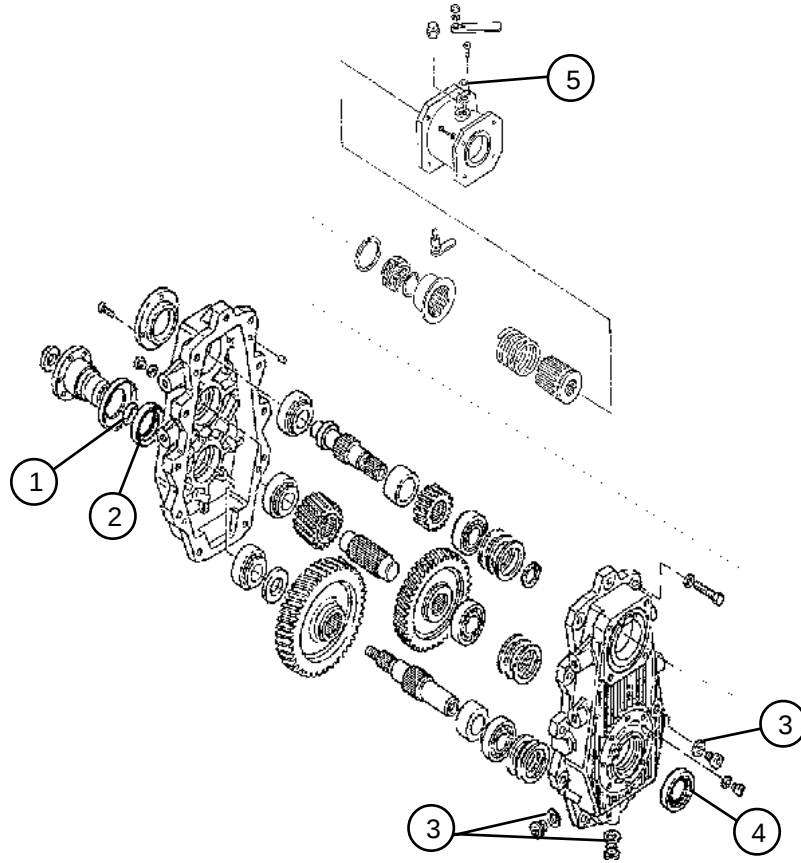
FIGURE 6-43. DRIVE AXLE ASSEMBLY (Optional 4x4)



Ma40-627

Index No.	Skyjack Part No.	Description							Units per Assy.
		1	2	3	4	5	6	7	
	706266	DRIVE AXLE ASSEMBLY (Optional 4x4)							-
1	704958	• DRIVE MOTOR							1
	702191	•• BOLT, HHCS M14x2.0x45MM gr. 8.8							4
	702192	•• WASHER, Lock 9/16							4
2	700498	• WHEEL NUT 18x1.5MM							16
3	706296	• DRIVE AXLE (For components, refer to Figure 6-45.)							1
4	(Ref.)	•• TRANSFER CASE (For components, refer to Figure 6-44.)							1
5	702438	• FITTING, 90° #8orb-#12							1
6	707622	• FITTING, 45° #16orb-#12							2
7	700817	• FITTING, Connector #14orb-#6							2
8	702382	• FITTING, Swivel nut tee #6-#6							1

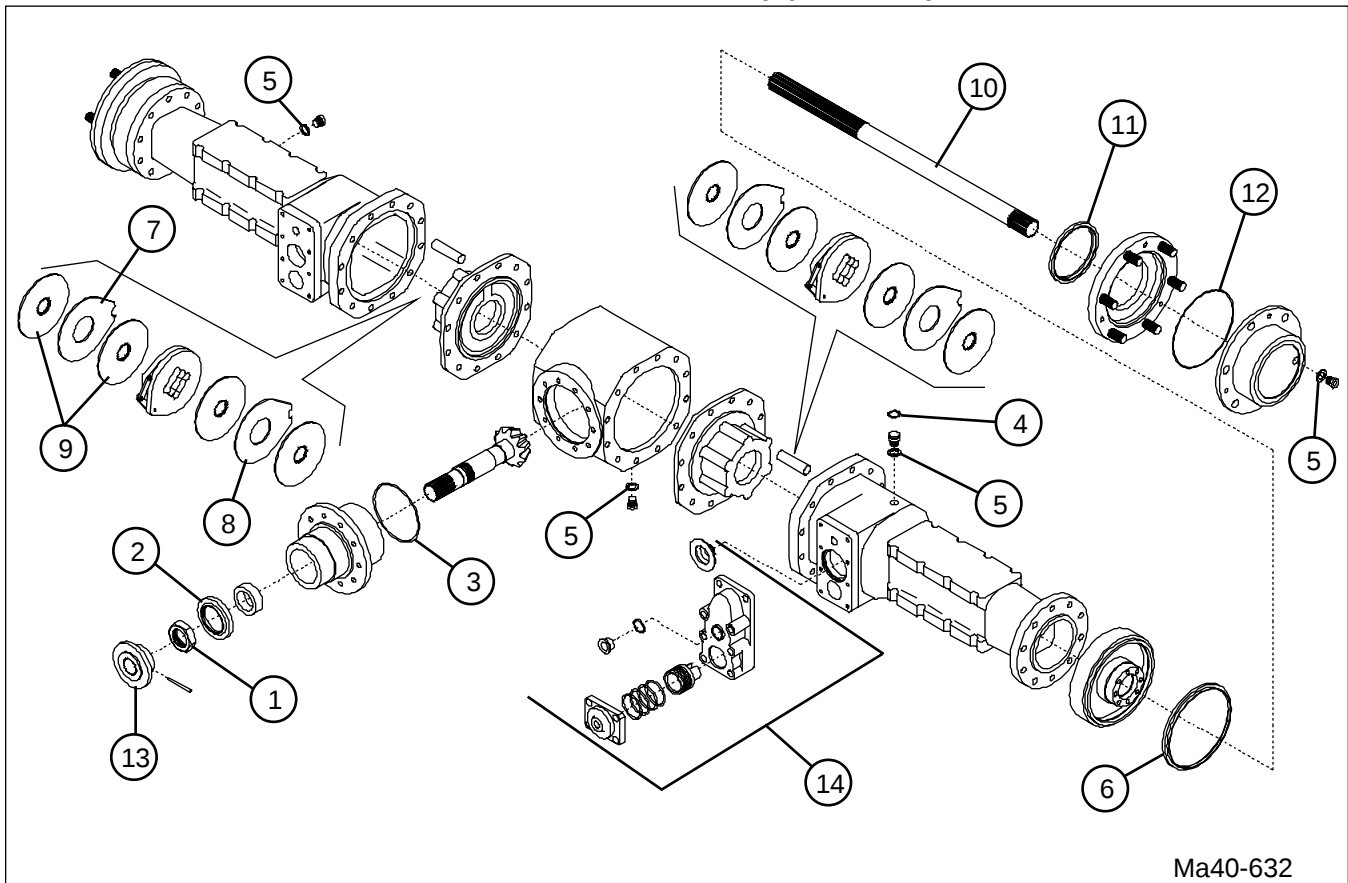
FIGURE 6-44. TRANSFER CASE ASSEMBLY (Optional 4x4)



Ma40-82

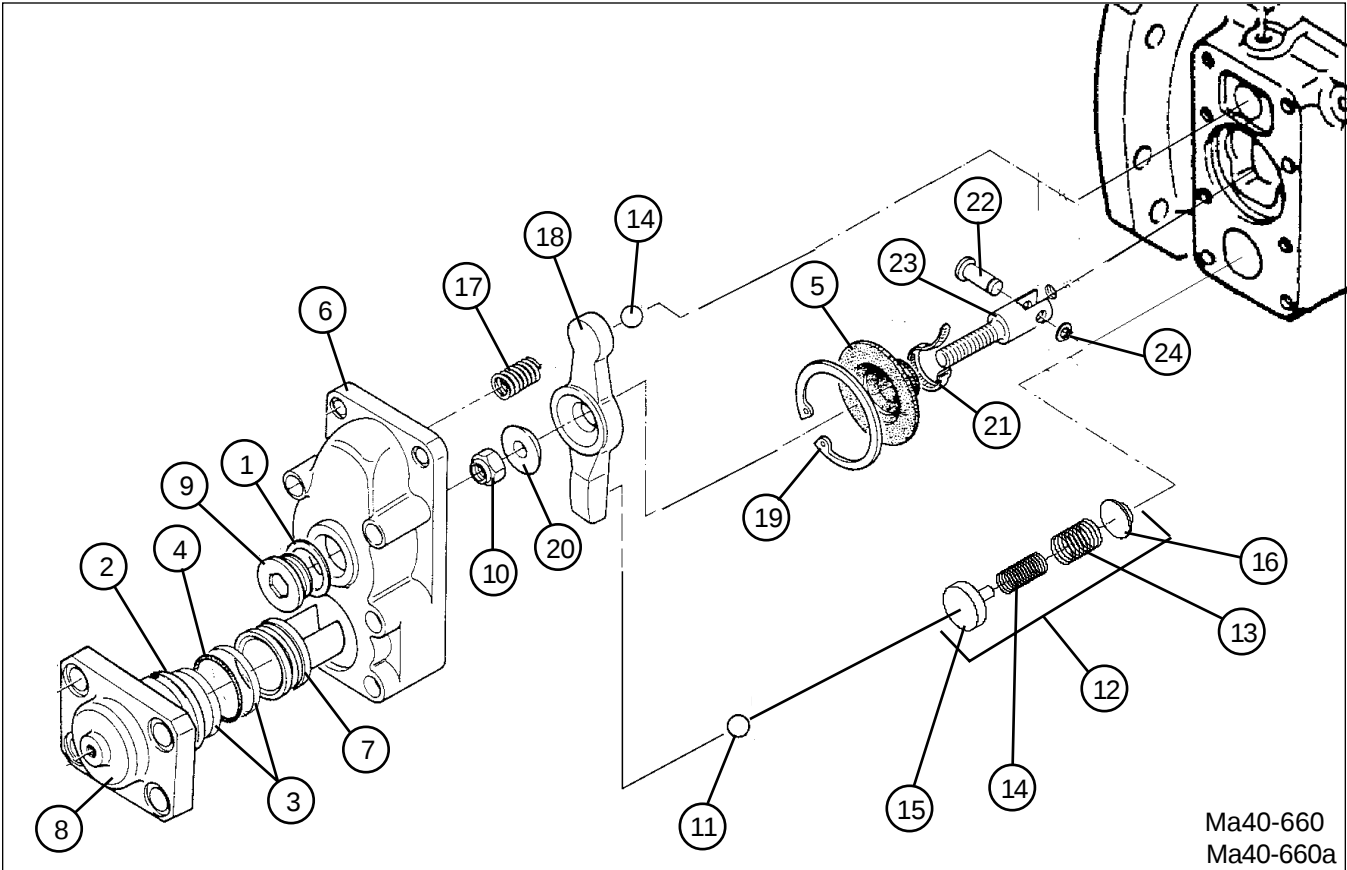
Index No.	Skyjack Part No.	Description							Units per Assy.
		1	2	3	4	5	6	7	
1	706540	SEAL, O-ring							1
2	706541	SEAL, Oil							1
3	701843	WASHER, Oil seal							2
4	706542	SEAL, Oil							1
5	706543	SEAL, O-ring							1

FIGURE 6-45. DRIVE AXLE (Optional 4x4)



Index No.	Skyjack Part No.	Description							Units per Assy.
		1	2	3	4	5	6	7	
	706296	AXLE ASSEMBLY, Rigid drive with transfer case							-
1	\$	• NUT, Pinion retaining							1
2	\$	• OIL SEAL, Pinion							1
3	\$	• SEAL, O-ring							1
4	\$	• SEAL, O-ring							1
5	\$	• WASHER, Oil plug							5
6	\$	• COVER, Dust							2
7	\$	• ACTUATOR, Brake							2
8	\$	• BRAKE DISK, Intermediate							6
9	\$	• BRAKE DISK, Friction							10
10	\$	• SHAFT, Axle							2
11	\$	• SEAL, Hub oil							2
12	\$	• SEAL, O-ring							2
13	\$	• FLANGE ASSEMBLY							1
14	(Ref.)	• BRAKE ASSEMBLY (For components, refer to Figure 6-46.)							1
		\$ Consult factory							

FIGURE 6-46. BRAKE ASSEMBLY



Index No.	Skyjack Part No.	Description							Units per Assy.
		1	2	3	4	5	6	7	
1	701844	WASHER, Oil Plug							1
2	701890	SEAL, O-ring (housing)							1
3	704231	BACKING RING, Seal							2
4	704219	SEAL, O-ring (piston)							1
5	701853	SEAL, Spring							1
6	703045	COVER, Brake							1
7	706544	PISTON, Brake							1
8	706545	FLANGE							1
9	708982	PLUG							1
10	708983	NUT, Tristop M 12							1
11	119101	BALL							2
12	710197	BRAKE KIT, Piston & spring							1
13	710198	• SPRING, Outer							1
14	710199	• SPRING, Inner							1
15	710200	• STEM							1
16	710201	• COVER							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 6-47. 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	707730	709338		707882		710134	709015	708949	709770	KIT, Service labels and nameplates (Dual Fuel)	-
B	707731	709337		707871		710133	709016	708950	709771	KIT, Service labels and nameplates (Diesel) (Consists of items 1-28)	-
1	706410	707485	707551	706733	708097	707617	706410	708164	708231	• LABEL, Transportation lock	2
2	707739	707459	707525	707860	708103	707591	707739	708170	708237	• LABEL, Caution disconnect power	1
3	702782	707461	707527	706252	708073	707593	702782	708140	708207	• LABEL, Unleaded fuel only, A	1
	702781	707460	707526	706251	708072	707592	702781	708139	708206	• LABEL, Diesel only, B	1
4	700033	707434	707500	702966	708047	707566	700033	708114	708181	• LABEL, Lead warning	1
5	706028	707481	707547	706223	708093	707613	706028	708160	708227	• LABEL, Pressure override valve	1
6	704497	707477	707543	706222	708089	707609	704497	708156	708223	• LABEL, Brake manifold (inside door)	1
7	703727	707472	707538	706257	708084	707604	703727	708151	708218	• LABEL, ATF only	1
8	707333	708671	708669	708668	708672	708670	708667	708169	708236	• LABEL, Emergency lowering	1
9	702013	707452	707518	706262	708065	707584	702013	708132	708199	• LABEL, Danger explosive	1
10	702005	707451	707517	702969	708064	707583	702005	708131	708198	• LABEL, Danger brake release	1
11	701086	707443	707509	702962	708056	707575	701086	708123	708190	• LABEL, Jib emergency lowering	1
12	700035	707435	707501	702978	708048	707567	700035	708115	708182	• LABEL, Annual inspection (inside door)	1
13	700029	707431	707497	702976	708044	707563	700029	708111	708178	• LABEL, Tie down	2
14	110333	707427	707493	702965	708040	707559	110333	708107	708174	• LABEL, AC Supply	10
15	108666	707426	707492	702975	708039	707558	108666	708106	708173	• LABEL, Use original parts	2
16	106705	707425	707491	702963	708038	707557	106705	708105	708172	• LABEL, Do not alter	3
17	106691	707424	707490	702977	708037	707556	106691	708104	708171	• LABEL, Checklist	1
18	700032	707433	707499	702983	708046	707565	700032	708113	708180	• LABEL, Attach safety belt (large)	1
19	700107	707437	707503	702964	708050	707569	700107	708117	708184	• LABEL, Attach safety belt (small)	2
20	700026	707429	707495	702973	708042	707561	700026	708109	708176	• LABEL, Danger	1
21	700551	707440	707506	702984	708053	707572	700551	708120	708187	• LABEL, Warning hazards	1
22	700028	708569	707567	708566	708575	708568	707734	708576	708577	• LABEL, Design standards	1
23	708935									• LABEL, Door stop	1
24	117294	707428	707494	706860	708041	707560	117294	708108	708175	• LABEL, Manual enclosed (Manual Enclosure)	1
25		117023	117023	117023	117023	117023	117023	117023	117023	• LABEL, CE Approval	3
26		708838	708836	708835	708839	708837	707736	708840	708841	• LABEL, European load	2
27	710497	710617	710620	710609	710619	710618	710497	710616	710621	• LABEL, Pinch point	2
28	707097	710731	710729	710730	710732	710733	707097	710728	710734	• MANUAL, Operator (Not shown)	1
29	706229	706229	706229	706229	706229	706229	706229	706229	706229	LABEL, Serial number nameplate (SJKB-40-D/F), (Kubota engine) A (Consult factory)	1
	709053	709053	709053	709053	709053	709053	709053	709053	709053	LABEL, Serial number nameplate (SJKB-40-RT), (4 x 2 Ford engine) A (Consult factory)	1
	709055	709055	709055	709055	709055	709055	709055	709055	709055	LABEL, Serial number nameplate (SJKB-40-XRT), (4 x 4 Ford engine) A (Consult factory)	1
	704649	704649	704649	704649	704649	704649	704649	704649	704649	LABEL, Serial number nameplate (SJKB-40-D), B (Consult factory)	1
30	706226	706226	706226	706226	706226	706226	706226	706226	706226	LABEL, SJKB-40-D/F, (Kubota engine), A	2
	709052	709052	709052	709052	709052	709052	709052	709052	709052	LABEL, SJKB-40-RT, (4 x 2 Ford engine) A	2
	709054	709054	709054	709054	709054	709054	709054	709054	709054	LABEL, SJKB-40-XRT, (4 x 4 Ford engine) A	2
	704663	704663	704663	704663	704663	704663	704663	704663	704663	LABEL, SJKB-40-D, B	2
31	700025	700025	700025	700025	700025	700025	700025	700025	700025	LABEL, Skyman	2
32	102631	102631	102631	102631	102631	102631	102631	102631	102631	LABEL, Skyjack 6 x 36-1/4	2
33	108946	108946	108946	108946	108946	108946	108946	108946	108946	LABEL, Skyjack 3-9/16 x 21-1/2	2
34	706923	707652	707652	707652	707652	707652	707652	707652	707652	LABEL, Turret control panel, A	1
35	704379	707653	707653	707653	707653	707653	707653	707653	707653	LABEL, Platform control panel, A	1
36	707233	707654	707654	707654	707654	707654	707654	707654	707654	LABEL, Turret control panel, B	1
37	707231	707655	707655	707655	707655	707655	707655	707655	707655	LABEL, Platform control panel, B	1
38	103125	103125	103125	103125	103125	103125	103125	103125	103125	LABEL, Blue/white striping	764"
39	(Ref.)	(Ref.)	(Ref.)	(Ref.)	(Ref.)	(Ref.)	(Ref.)	(Ref.)	(Ref.)	LABEL, Model type	-
	707235	707235	707235	707235	707235	707235	707235	707235	707235	• 4 X 2	2
	707236	707236	707236	707236	707236	707236	707236	707236	707236	• 4 X 4	2
40	700031	707432	707498	702979	708045	707564	700031	708112	708179	LABEL, Capacity 500 lbs. NOTE: Supply Model Number when ordering complete machine labels.	2

FIGURE 6-47. LABELS AND NAMEPLATES

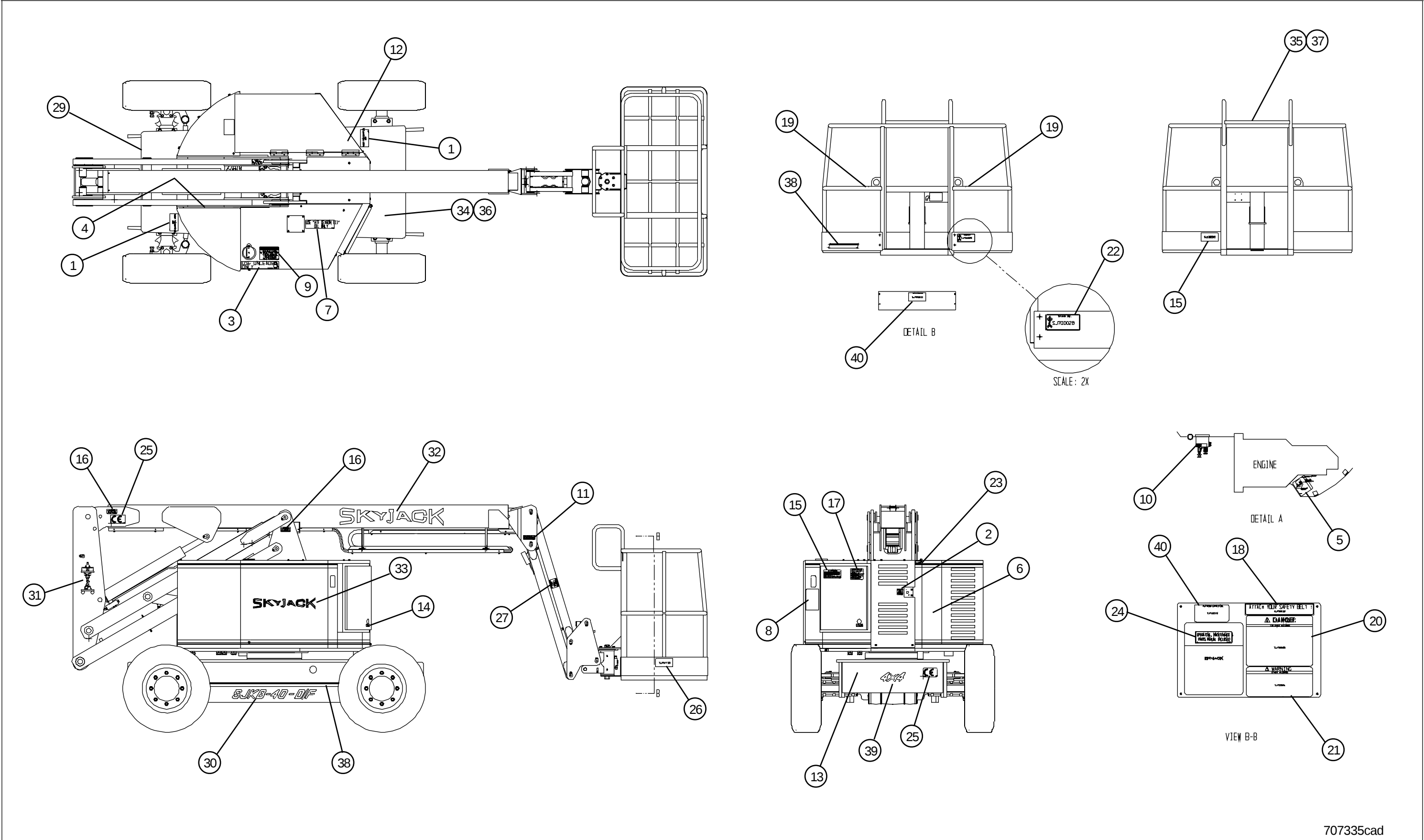
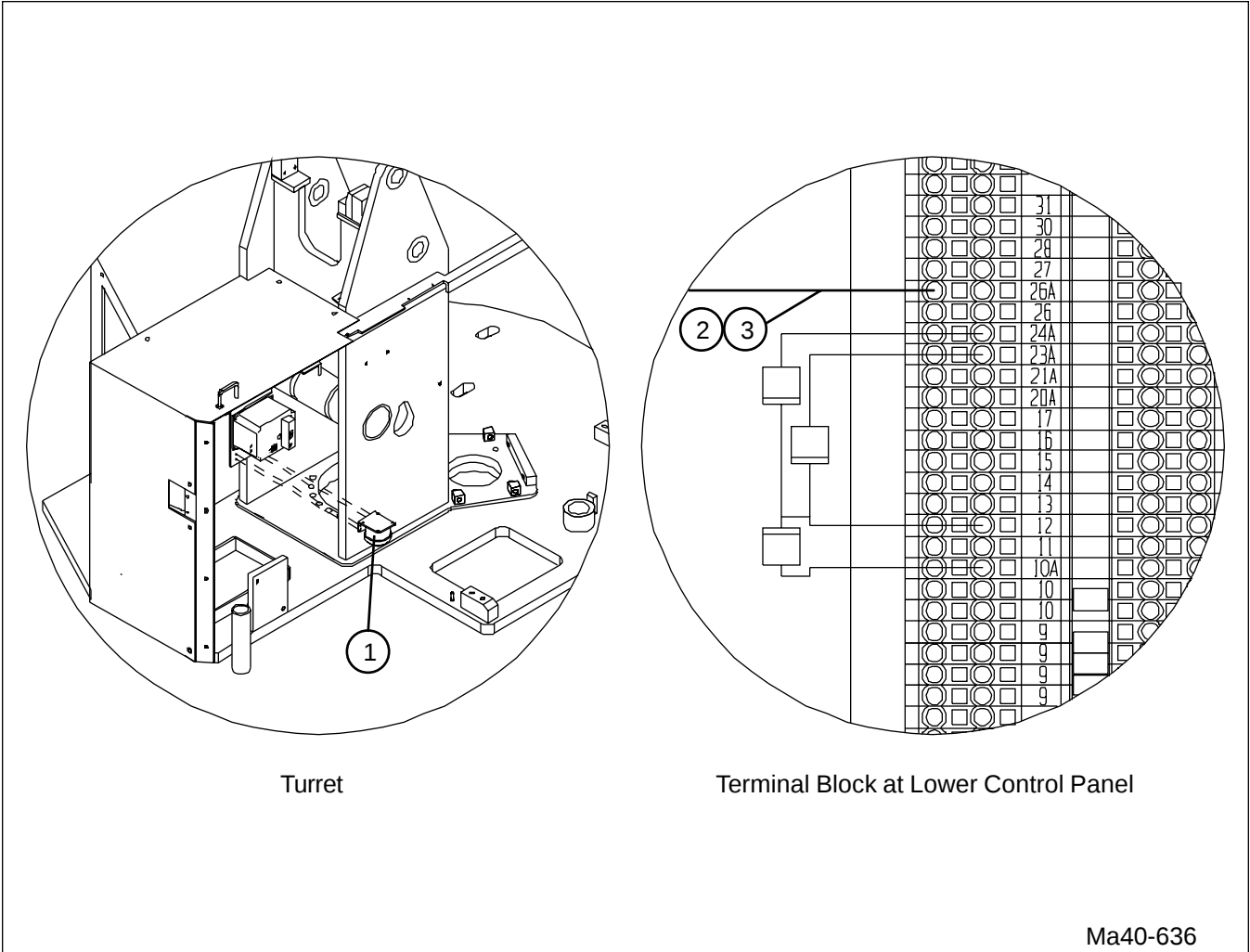
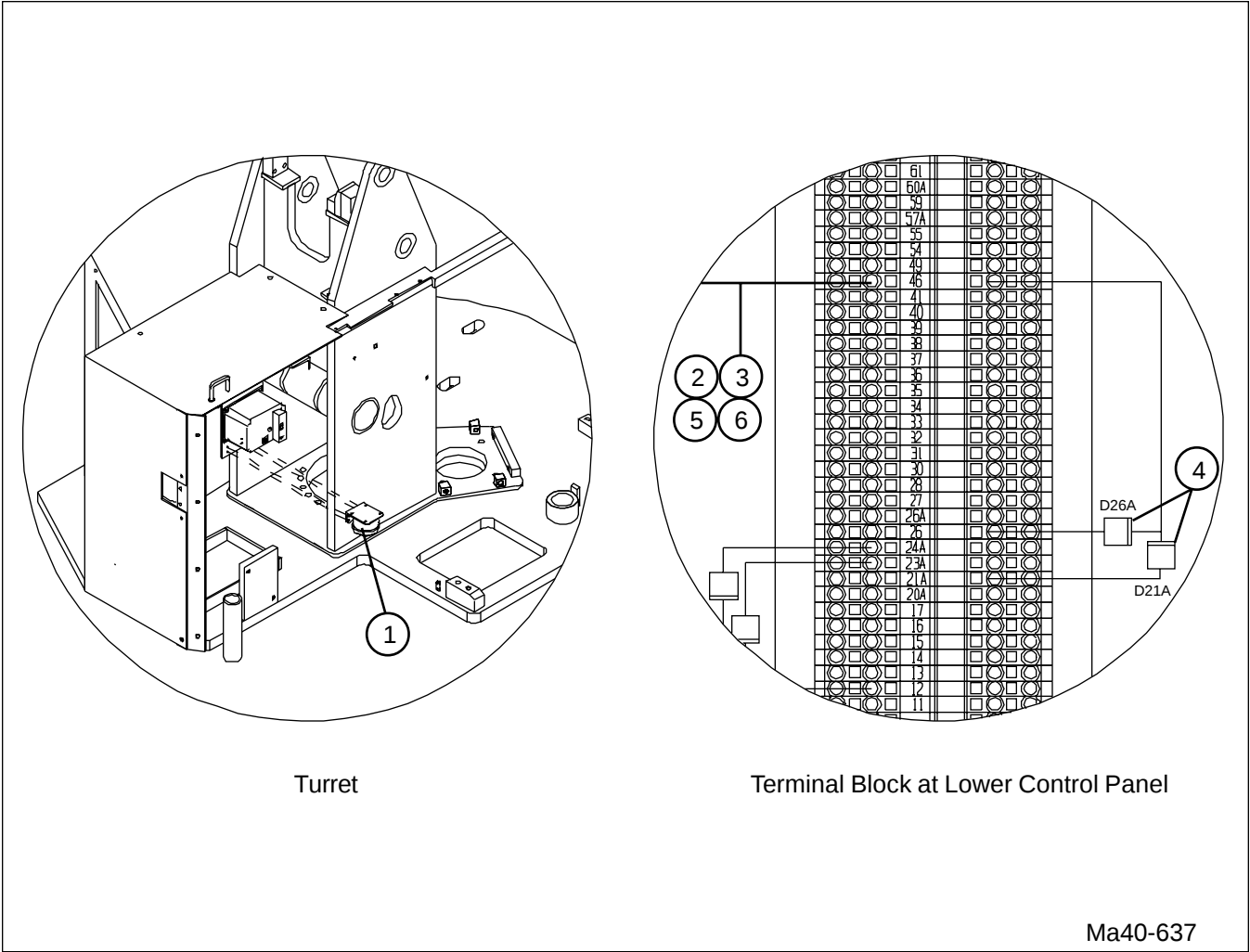


FIGURE 6-48. TRAVEL ALARM OPTION



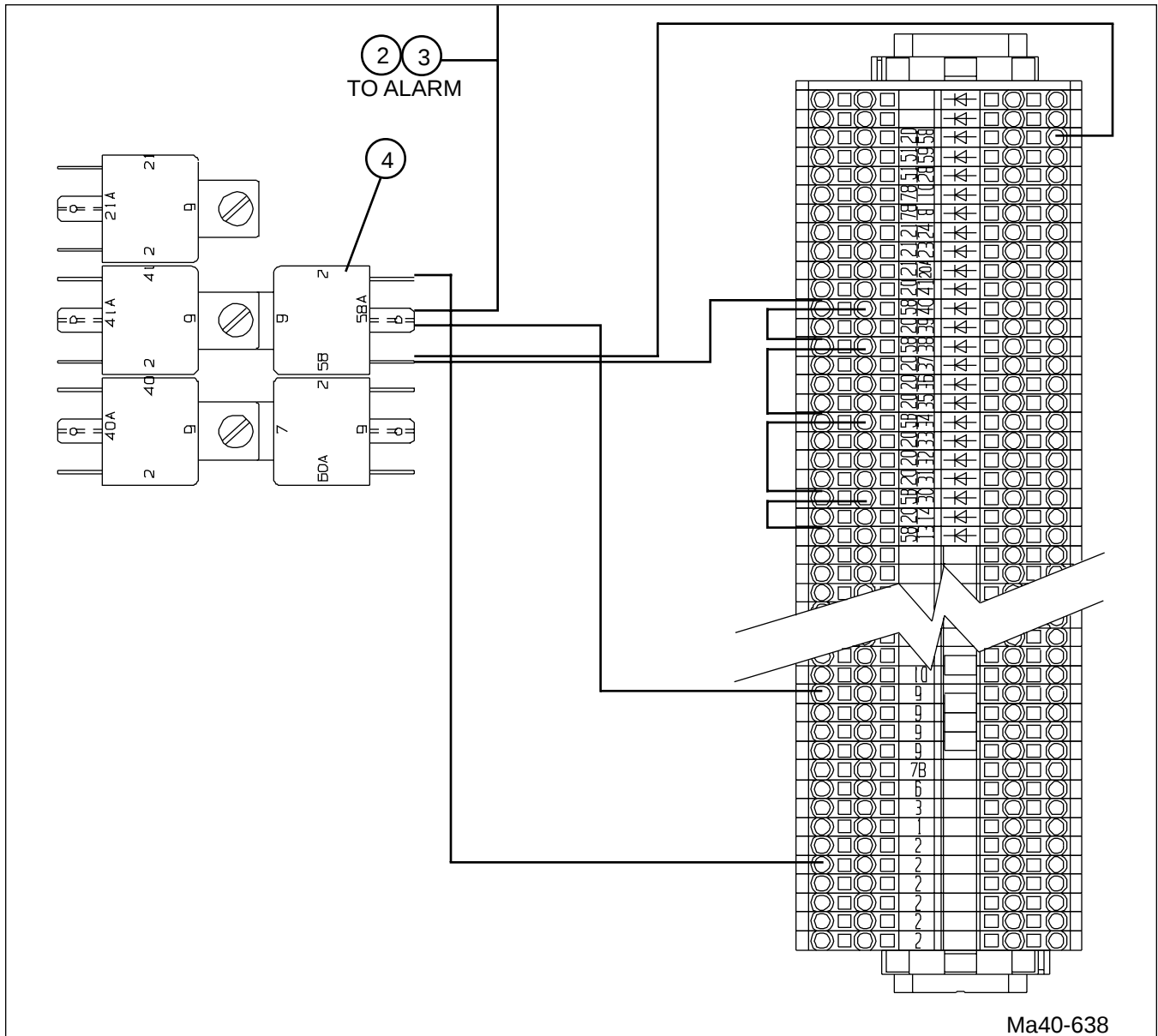
Ma40-636			
Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	707912	TRAVEL ALARM OPTION	-
	703321	• ALARM	1
	109210	•• TERMINAL, 16 ga.x5/16 ring	1
	102955	•• TERMINAL, 16 ga.x#10 ring	1
	104185	•• WASHER, Lock #10	4
	104003	•• NUT, Hex #10-32	4
	103692	•• BOLT, Mach. Hd. #10-32	4
2	704307	• WIRE LOOM	60"
3	702482	• WIRE, 16 ga. blue/yellow	72"

FIGURE 6-49. ALL MOTION ALARM OPTION



Ma40-637			
Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	707913	ALL MOTION ALARM OPTION	-
	703321	• ALARM	1
	109210	•• TERMINAL, 16 ga.x5/16 ring	1
	102955	•• TERMINAL, 16 ga.x#10 ring	2
	104185	•• WASHER, Lock #10	4
	104003	•• NUT, Hex #10-32	4
	103962	•• BOLT, Mach. Hd. #10-32 x 1/2" lg.	4
2	704307	• WIRE LOOM	60"
3	702466	• WIRE, 16 ga. red/black	76"
4	102921	• DIODE, 6 amp/1000PIV	2
5	702465	• WIRE, 16 ga. white	50"
6	703926	• HEATSHRINK, 3/16" dia. black	3

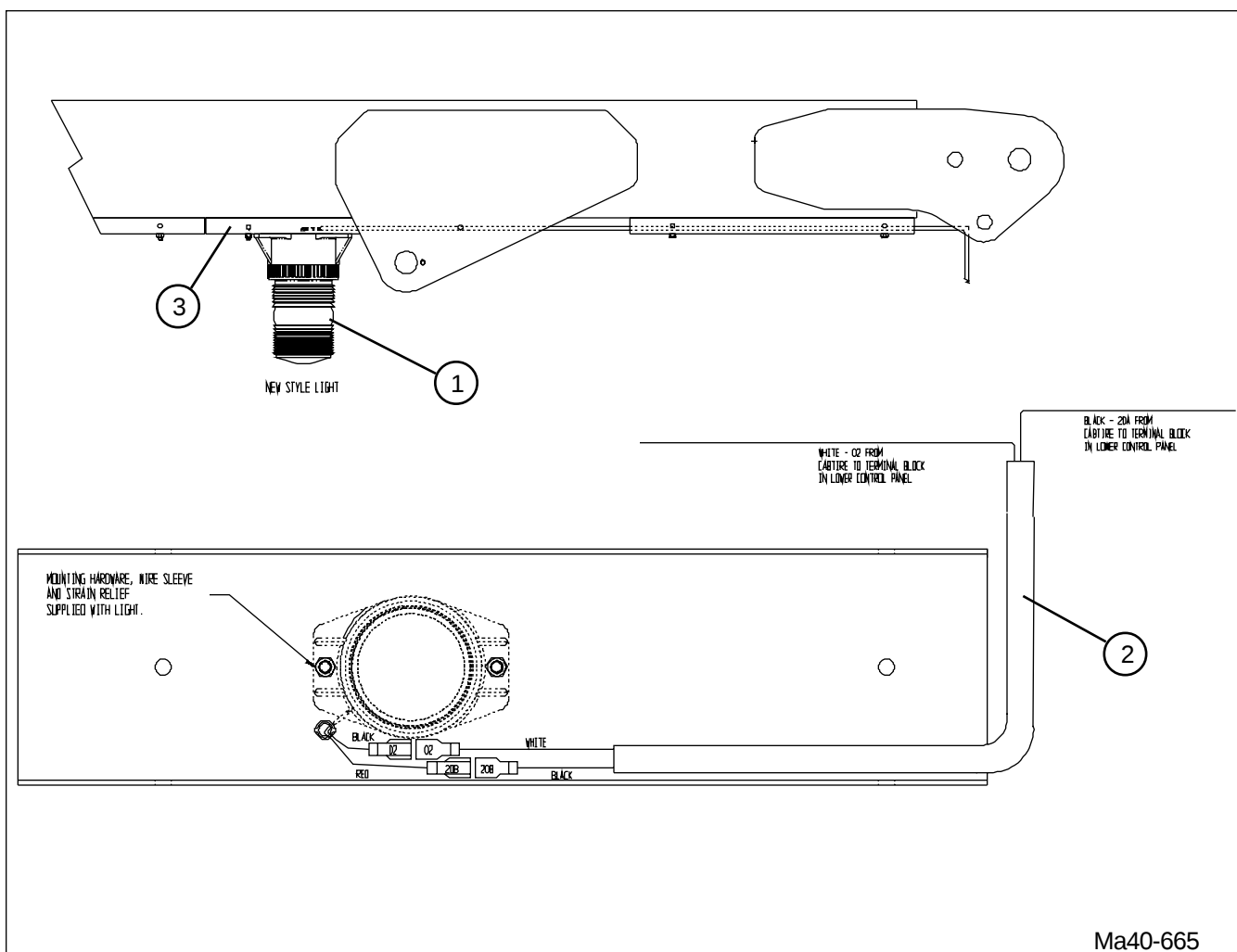
FIGURE 6-50. DESCENT ALARM OPTION



Ma40-638

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	707916	DESCENT ALARM OPTION	-
	703321	• ALARM (For location, refer to Figure 6-48.)	1
	109210	•• TERMINAL, 16 ga.x5/16 ring	1
	102955	•• TERMINAL, 16 ga.x#10 ring	1
2	104185	•• WASHER, Lock #10	4
	104003	•• NUT, Hex #10-32	4
	103692	•• BOLT, Mach. Hd. #10-32	4
	704307	•• WIRE LOOM	60"
3	702353	•• WIRE, 16 ga. yellow/red	82"
4	701943	• RELAY, 12VDC, Sealed	1
	702000	•• TERMINAL, 16 ga.x1/4 SPD F	4
	702478	•• WIRE, 16 ga. yellow	5"
	702465	•• WIRE, 16 ga. white	5"

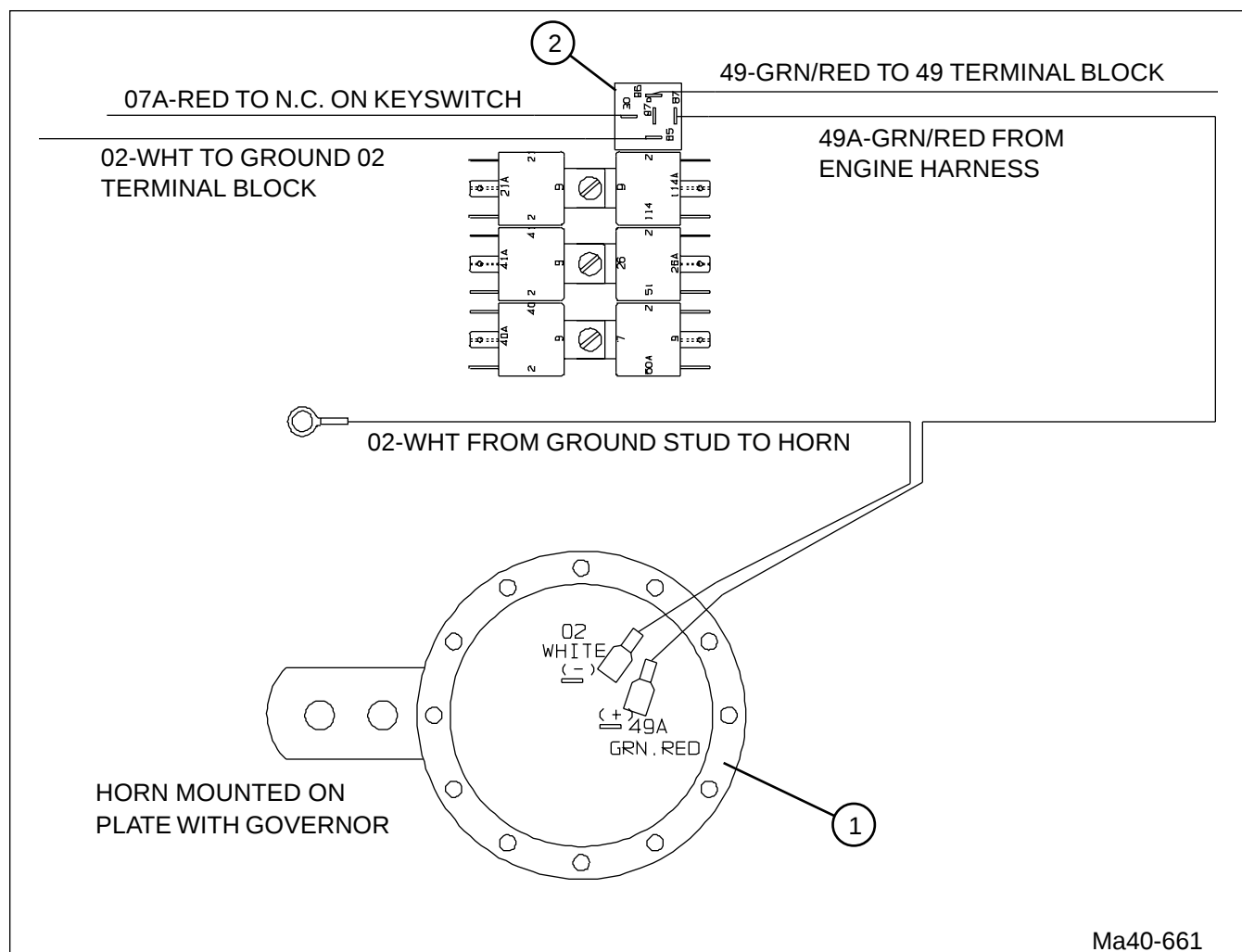
FIGURE 6-51. FLASHING LIGHT OPTION



Ma40-665

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
1	710138	FLASHING LIGHT OPTION (New Style)	-
	707915	FLASHING LIGHT OPTION (Old Style)	-
	710139	• FLASHING LIGHT, 12VDC (New Style)	1
	703323	• FLASHING LIGHT, 12VDC (Old Style)	1
	103256	• CABLE, 18-2 Cabtire	AR
2	710136	• HOSE COVER, Flashing light option (New Style)	1
3	709026	• HOSE COVER, Flashing light option (Old Style)	1
NOTE: Seal wire entry holes with silicone sealant.			

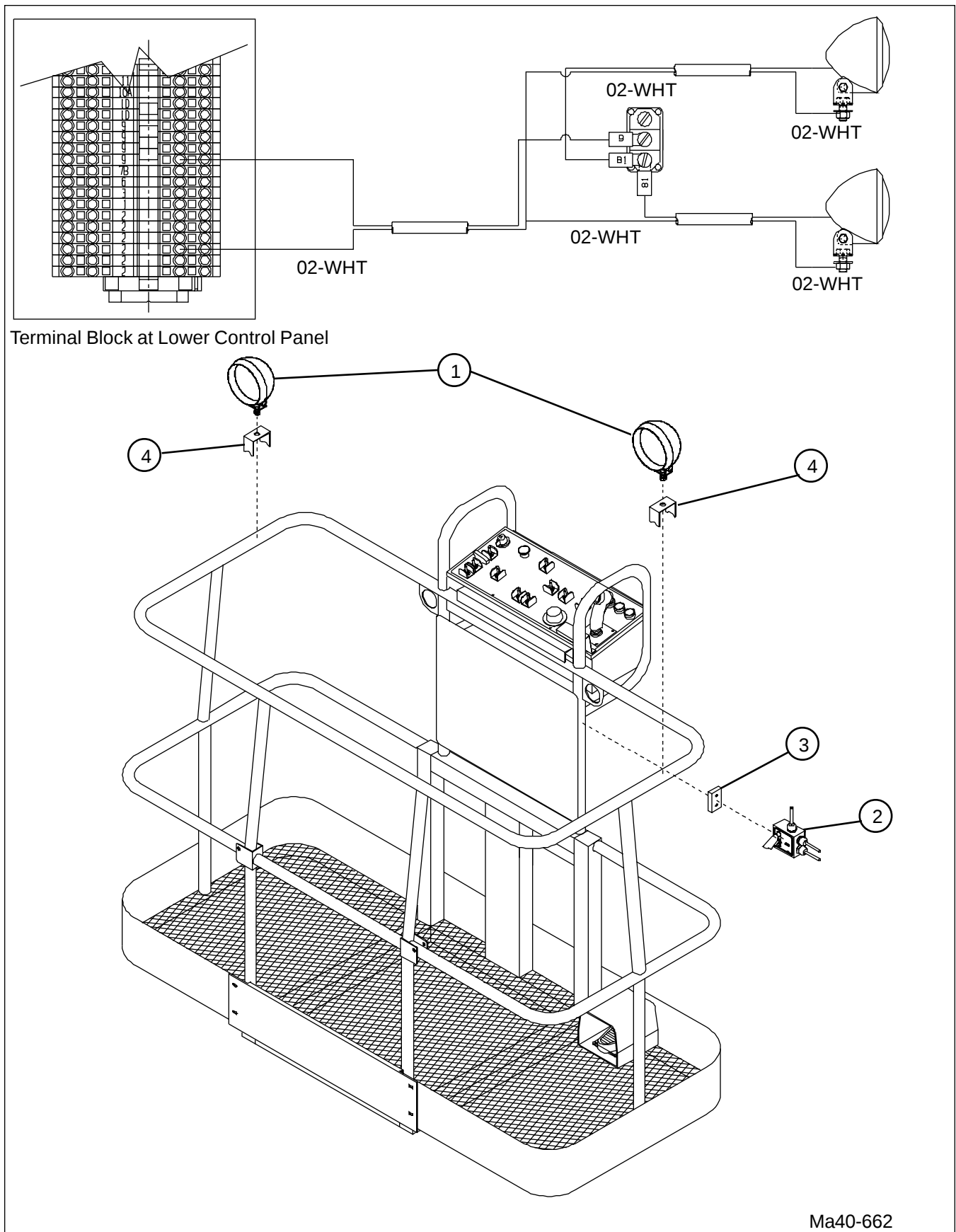
FIGURE 6-52. HORN OPTION



Ma40-661

Index No.	Skyjack Part No.	Description							Units per Assy.
		1	2	3	4	5	6	7	
1	709798	HORN OPTION							-
	703322	• HORN, 12V							1
	103845	• BOLT, HHCS 5/16-18 x 1/2" lg.							1
	103996	• WASHER, Flat 5/16"							1
	103404	• WASHER, Lock 5/16"							1
	100397	• NUT, 5/16-18							1
	109210	• TERMINAL, 16 ga. x 5/16 ring							1
	702000	• TERMINAL, 16 ga. x 1/4 SPD F							2
	701943	• RELAY, 12V							1
	702485	• WIRE, 16 GA red							57"
2	702479	• WIRE, 16 GA green/red							36"
	702465	• WIRE, 16 GA white							17"
	702000	• TERMINAL, 16 ga. x 1/4 SPD F							4

FIGURE 6-53. PLATFORM WORK LIGHTS OPTION



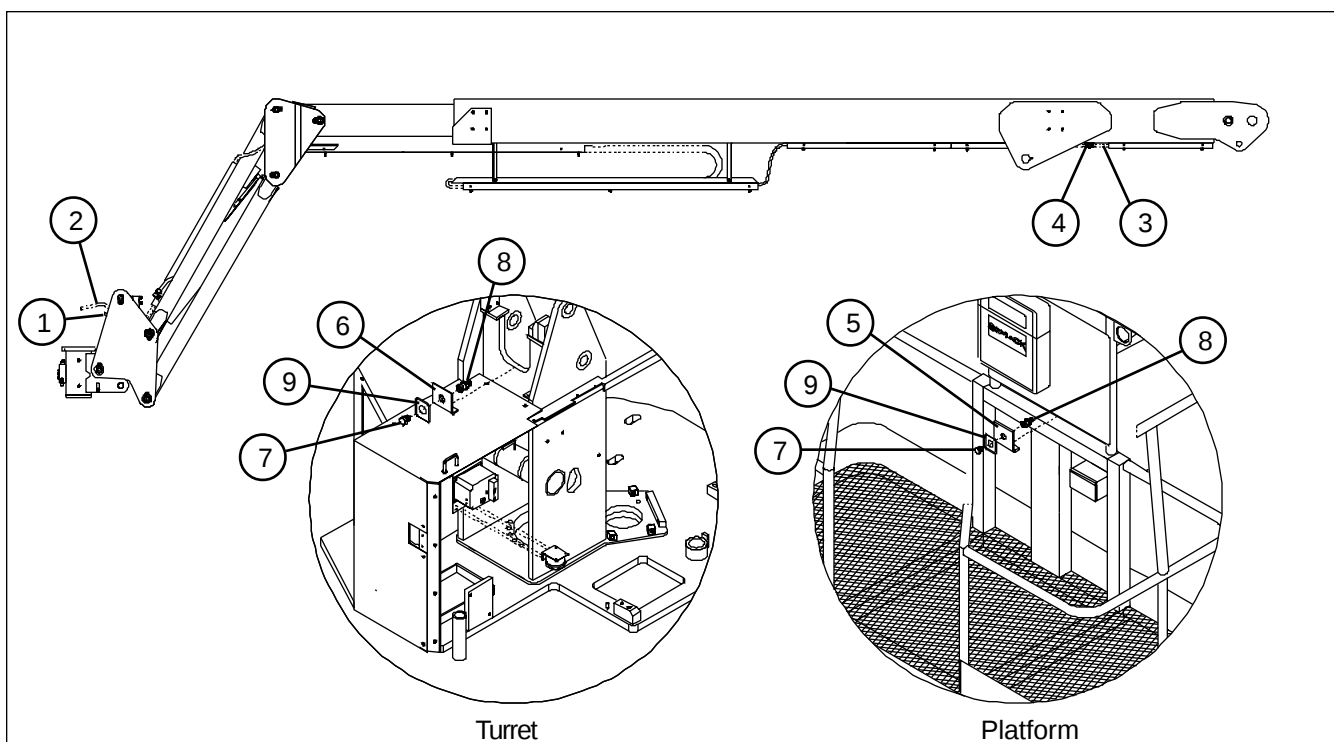
Ma40-662

FIGURE 6-53. PLATFORM WORK LIGHTS OPTION

Index No.	Skyjack Part No.	Description							Units per Assy.
		1	2	3	4	5	6	7	
	709905	PLATFORM WORK LIGHTS OPTION							-
1	703545	• LIGHT, Work							2
	103995	•• WASHER, Flat 1/4" (replaces OEM star washer)							2
	700583	•• NUT, Lock 1/4"-20 (replaces OEM nut)							1
2	709904	• ASSEMBLY, Toggle switch control box							1
	710527	•• ENCLOSURE, Toggle							1
	701930	•• TOGGLE, SPDT 2 position maintained							1
	701927	•• TOGGLE GUARD RED BOTTOM							1
	103036	•• STRAIN RELIEF, Plastic							3
	710530	•• CABTIRE, 18/2 - 660"							1
	710532	•• CABTIRE, 18/2 - 41"							1
	710531	•• CABTIRE, 18/2 - 79"							1
	709844	•• LABEL, Lights							1
	102955	• TERMINAL, 16 ga., #6 ring							3
	109210	• TERMINAL, 16 ga., 5/16" ring							2
	703298	• HEATSHRINK, 1/4"							4"
	703926	• HEATSHRINK, 3/16"							24"
	103855	• BOLT, HHCS 1/4-20 x 1/2" lg.							2
	104000	• WASHER, Lock 1/4"							2
	103980	• NUT, Hex 1/4-20							2
3	707052	• PLATE, Switch box mount (Weld On)							1
4	703544	• BRACKET, Work light (Weld On)							2

NOTES

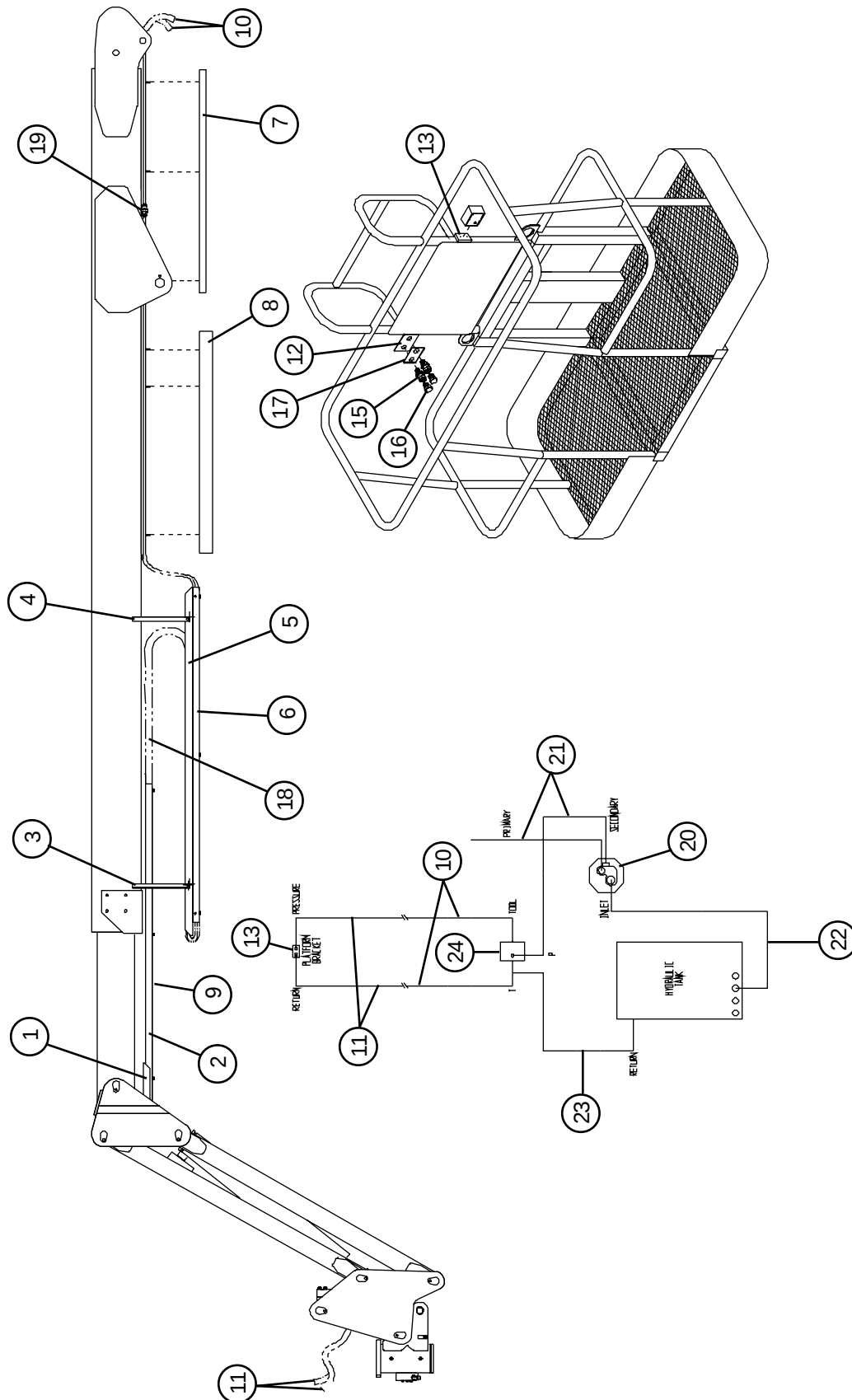
FIGURE 6-54. AIR LINE TO PLATFORM



Ma40-663

Index No.	Skyjack Part No.	Description	Units per Assy.
		1 2 3 4 5 6 7	
	706972	AIR LINE TO PLATFORM OPTION	-
1	704036	• CLAMP, Hose	2
2	708342	• HOSE ASSEMBLY (H308 0343 00-0)	1
3	708343	• HOSE ASSEMBLY (H108 0173 00-0)	1
4	702125	• FITTING, Tube union #8	1
5	709116	• BRACKET, Air line platform	1
6	706970	• BRACKET, Air line turret	1
7	703683	• FITTING, Pipe - 1/2" NPT plug zinc	2
8	703681	• FITTING, Bulk head connector (LN8) - female	2
9	703671	• LABEL, Air line	2
NOTE: Refer to Standard Hose Numbering System (SECTION 5, Page 30) for explanation of hose numbering.			

FIGURE 6-55. HYDRAULIC TOOL OPTION

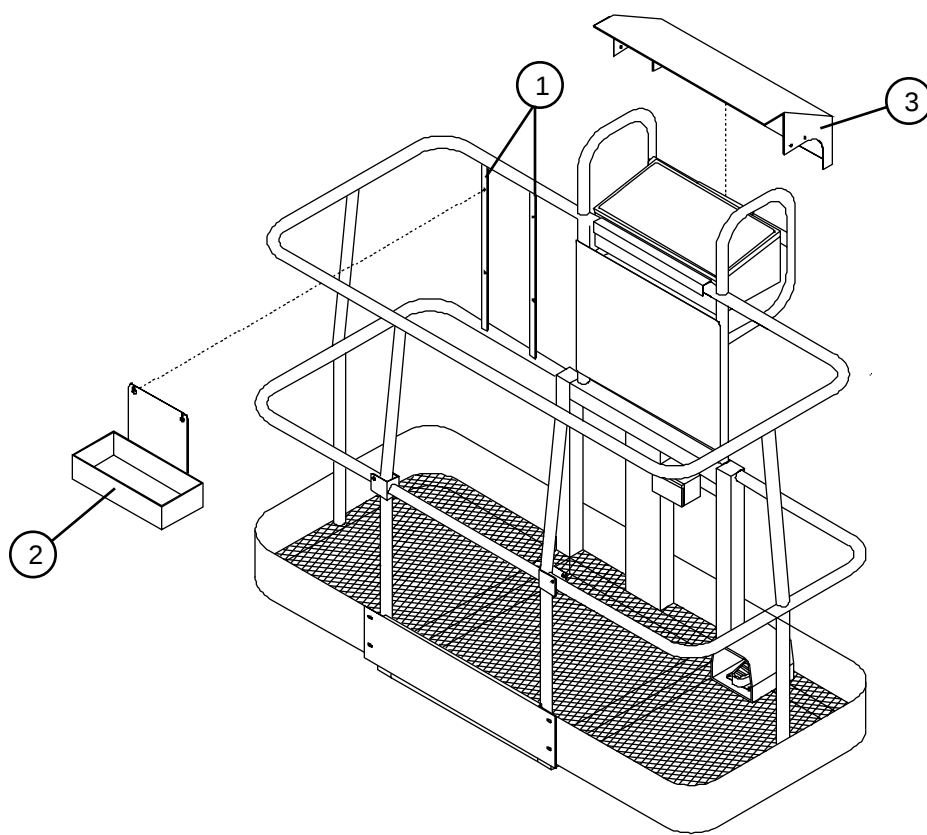


Ma40-664

FIGURE 6-55. HYDRAULIC TOOL OPTION

Index No.	Skyjack Part No.	Description							Units per Assy.
		1	2	3	4	5	6	7	
	709635	HYDRAULIC TOOL OPTION							-
1	709622	• TRACK MOUNT, Telescopic boom							1
2	709623	• WELDMENT, Outer boom track bracket							1
3	709626	• MAIN BOOM CHANNEL MOUNT, RH							2
4	709627	• MAIN BOOM CHANNEL MOUNT, LH							2
5	709628	• WELDMENT, Lower track support							1
6	709630	• LOWER HOSE GUIDE							1
7	709631	• HOSE COVER, Short							1
8	709632	• HOSE COVER, Long							1
9	709633	• TRACK SUPPORT, Outer boom							1
10	H108 0192 00-0	• HOSE ASSEMBLY							2
11	H508 0365 00-0	• HOSE ASSEMBLY							2
12	707259	• BRACKET, Platform (Hydraulic Line) (Weld On)							1
13	707052	• PLATE MOUNT, Switch plate (Weld On)							1
14	710081	• ASSEMBLY, Wiring (Not Shown)							1
	707016	• ENCLOSURE, Toggle							1
	701930	• TOGGLE, SPDT 2 position maintained							1
	701927	• TOGGLE GUARD RED BOTTOM							1
	103036	• STRAIN RELIEF, Plastic							3
	103256	• CABTIRE, 18/2							125"
	707048	• LABEL, Hydraulic tool option							1
	102955	• TERMINAL, 16 ga., #6 ring							2
	109210	• TERMINAL, 16 ga., 1/4" SPD F							2
	707143	• TERMINAL BLOCK THRU							1
	707145	• TERMINAL BLOCK DIODE							1
	103570	• CONNECTOR INSERT, 4-Pin female							1
	103568	• CONNECTOR HOUSING, 4-Pin female							1
	103569	• CONNECTOR INSERT, 4-Pin male							1
	103567	• CONNECTOR HOUSING, 4-Pin male							1
15	703681	• FITTING, Female bulkhead connector #8							2
16	703683	• FITTING, Pipe plug 1/2 NPT							2
17	703672	• LABEL, Hydraulic line							1
18	709625	• ASSEMBLY, Cable carrier e-chain							1
19	702125	• FITTING, Tube union #8							2
20	709929	• PUMP, Drive single inlet							1
	701998	• FITTING, Straight thread elbow connector #8orb-#8							2
	710124	• FITTING, Straight thread elbow connector #16orb-#12							1
	703412	• FITTING, Tube reducer #8orb-#12							1
	703284	• FITTING, Swivel nut elbow #12							1
	703413	• FITTING, Swivel nut run tee #12							1
21	H508 0038 00-0	• HOSE ASSEMBLY							2
22	H2012 0051 00-0	• HOSE ASSEMBLY							1
23	H108 0028 00-0	• HOSE ASSEMBLY							1
24	709822	• MANIFOLD							1
	701998	• FITTING, Straight thread elbow connector #8orb-#8							1
	103322	• FITTING, Straight thread connector #4orb-#6							1
	706204	• FITTING, Cap nut #6							1
	702116	• FITTING, Straight thread connector #8							1
	706715	• FITTING, Swivel nut run tee #8							1
	710121	• VALVE, Pressure reducing							1
	710122	• VALVE, Adj. needle							1
	710120	• VALVE, Solenoid							1
	710170	• VALVE, Cartridge relief							1

FIGURE 6-56. PLATFORM TOOL TRAY/CONTROL COVER OPTION



Index No.	Skyjack Part No.	Description							Units per Assy.
		1	2	3	4	5	6	7	
1	710060	PLATFORM TOOL TRAY OPTION (30x66 and larger only)							-
	200525	• TOOL TRAY WELDMENT							1
	700583	•• NUT, lock nylon insert 1/4"-20							4
	703273	•• BOLT, BHCS 1/4"-20x1.00 SS							4
2	710061	• TOOL TRAY SUPPORT							1
3	710427	CONTROL COVER OPTION							-
	710479	• CONTROL COVER WELDMENT							1
	700583	•• NUT, lock nylon insert 1/4"-20							6
	103995	•• WASHER, Flat 1/4"							12
	103860	•• BOLT, HHCS 1/4"-20x1-3/4"							6