



Service Bulletin

DIS185SSI4F Air Compressor

Multiple Component Update

Product Group:	Date Issued:	Expiration Date:	Service Bulletin No.
Power Solutions	06/02/17	06/02/18	AC20170324
Bulletin Type ☐ Mandatory ☐ Information Only ☒ Recommended Change		Models/Series Affected: DIS185SSI4F S/N 9500001 – 9500108	

Details

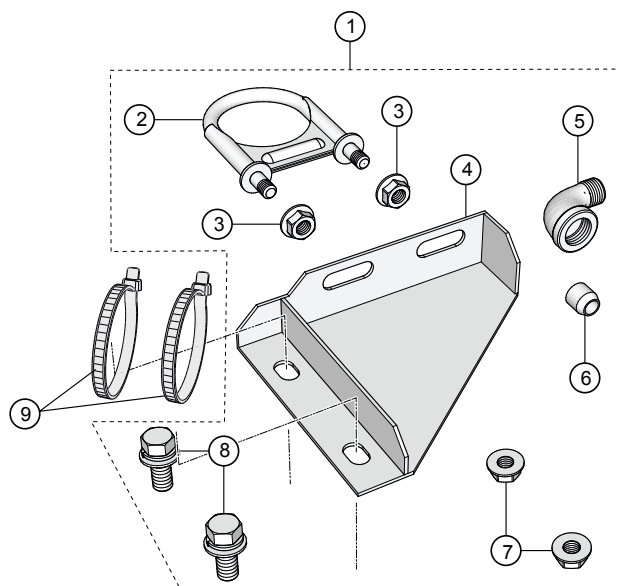
Problem:

1. Key switch wiring may disconnect, preventing key switch operation.
2. Oil return hose:
 - A. May have blockage, causing oil withdrawal at service valves.
 - B. Nylon tube may rub against air cleaner support bracket due to lack of clearance.
3. Air tank may sway during transport, causing damage to air tank support bracket.
4. Air and oil separator nipple ports may have blockage, causing oil withdrawal at service valves.

Solution:

Install new components and inspect, clean, and replace existing components as needed.

Parts Information



Item No.	Part No.	Description	QTY.	Remarks
1	EE60070	DIS185SSI4F Update Kit	1	Includes Items 2–8
2	0602326090	Clamp, U-Bolt	1	
3	Y0207008000	Nut, Self-Locking	2	
4	E2614804204	Bracket, Minimum Pressure Valve	1	
5	0130202000	Street Elbow	1	
6	0603302001	Sleeve	1	
7	23802	Nut, Hex Flanged M8-1.25 Serrated Zinc	2	
8	0016908020	Bolt, Hex Head	2	
9	N/A	Tie Wrap, 6"	2	Source Locally

Figure 1. DIS185SSI4F Update Kit

WORK SAFELY!

Only a qualified service technician with proper training should perform this procedure. Follow all shop safety rules while performing this procedure.

PREPARATION

1. Make sure air compressor is turned off and **engine is cool**.
2. Place the air compressor in an area free of dirt and debris, and make sure it is on secure level ground with chock blocks underneath each wheel to prevent it from rolling.

REQUIRED TOOLS

- Phillips Screwdriver
- Ratchet Set
- 9/16", 7/8", 15/16" Open-End Wrenches
- Bench Vise
- Pipe Wrench
- Bench Grinder with Wire Brush Wheel
- Pipe Thread Sealant
- 3/8" Drill and Bit
- Cable Cutters
- Compressed Air
- Locking C-Clamp
- Strap Wrench

AIR COMPRESSOR SAFETY

WARNING

- Residual air pressure can cause severe bodily injury.

CAUTION

- Make sure the compressor air pressure reads **zero** before performing any maintenance.
- When blowing compressed air to remove dust and debris that has accumulated in such devices as air filters, wear personal protective equipment (e.g. safety glasses) to protect eyes.

BATTERY SAFETY

CAUTION

- **ALWAYS** disconnect the **NEGATIVE** battery terminal before performing service on the air compressor.

PROCEDURE

Battery Disconnection

1. Open the battery-side door and disconnect the negative cable (**BLACK**) from the negative terminal on the battery. See Figure 2.

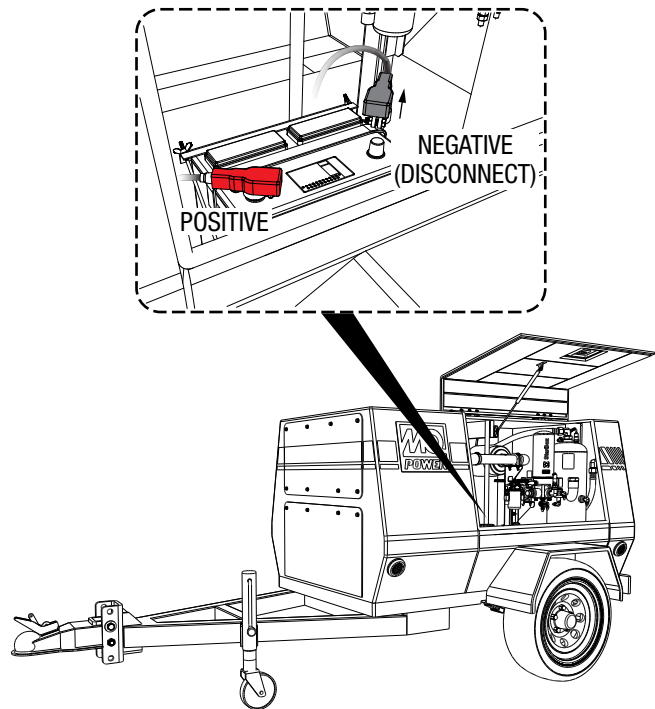


Figure 2. Battery Disconnection

Key Switch

1. Remove and retain the six screws that secure the control panel to the frame (Figure 3). Gently lower the control panel to open.

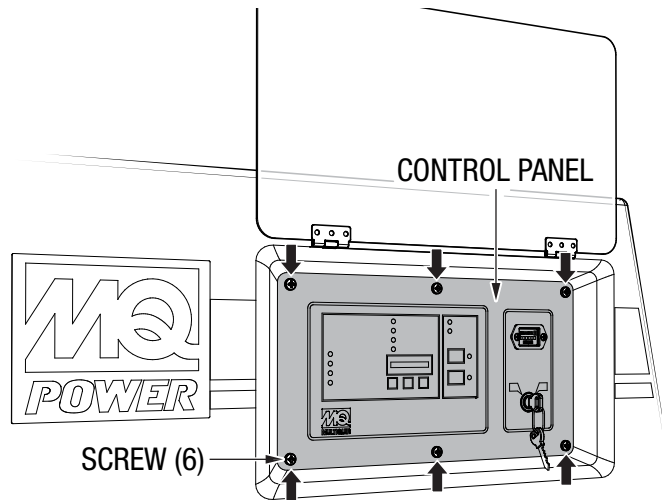


Figure 3. Open Control Panel

2. Locate the soldered key switch connection and bundle the key switch wires together (Figure 4). Secure the bundled wires to the key switch body with a tie wrap.

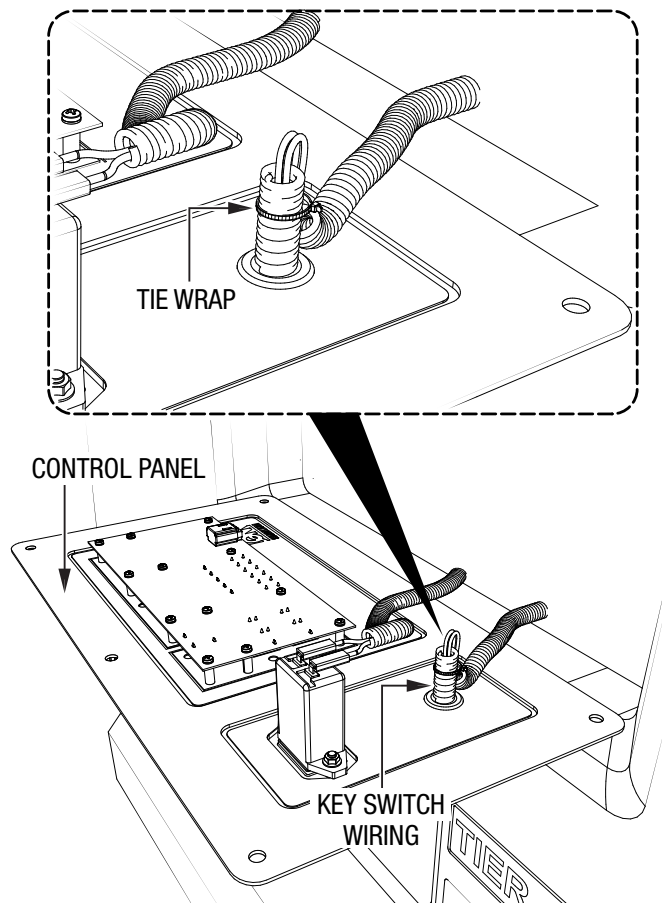


Figure 4. Bundle and Secure Key Switch Wiring

3. Carefully lift the control panel and secure it to the frame with the six screws that were removed earlier.

Hydraulic Filter Removal

NOTICE

Use a catch pan or rag to prevent spills while disassembling hydraulic plumbing.

1. Remove and retain the hex nut and star washer securing the electrical connector to the front of the hydraulic filter. See Figure 5.

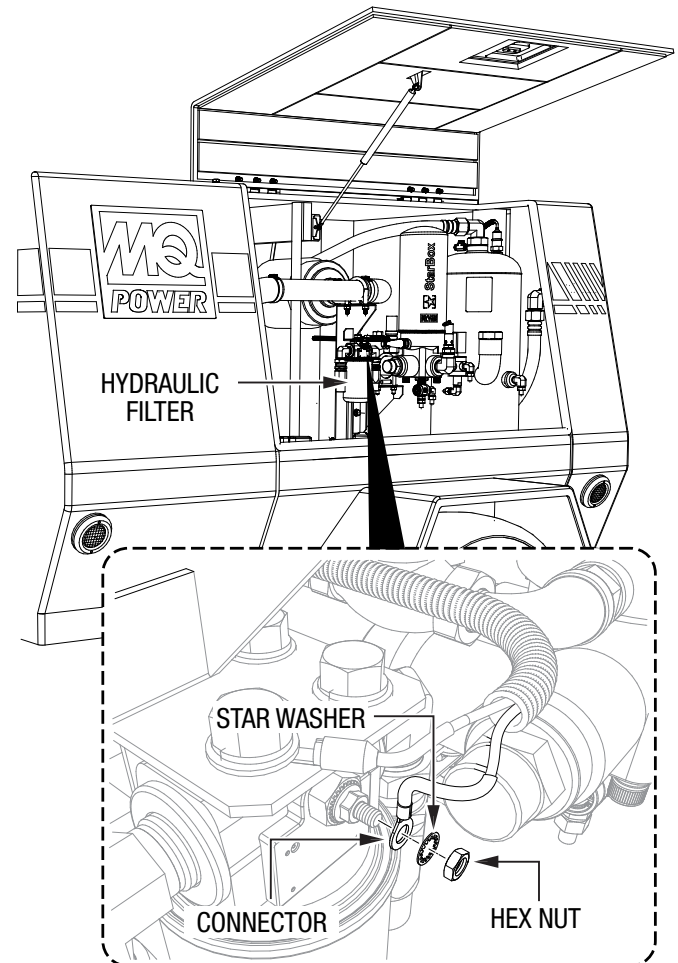


Figure 5. Hydraulic Filter Electrical Connector Removal

2. Remove and retain the three bolts and washers securing the hydraulic filter to the frame (Figure 6). Remove the hydraulic filter and set aside.

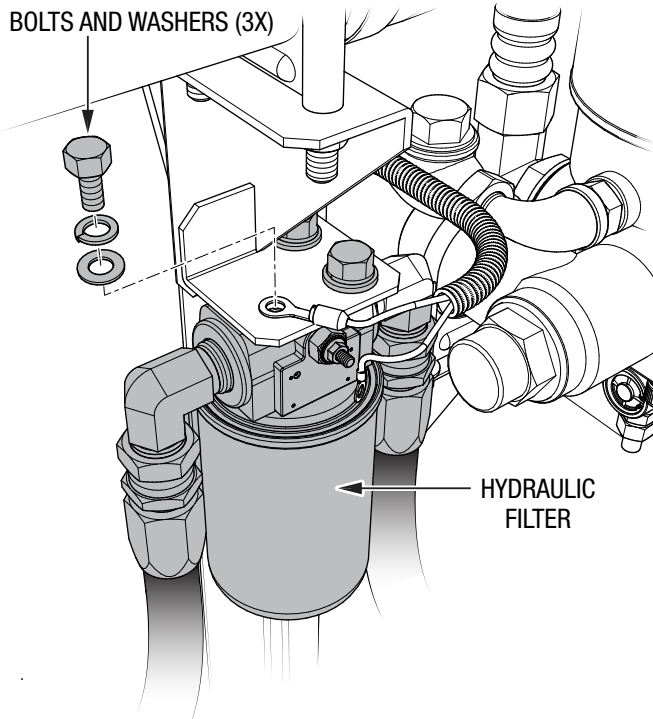


Figure 6. Hydraulic Filter Removal

Check Valve Preparation

1. Loosen the nut securing the oil return hose to the check valve (Figure 7), and disconnect the hose.

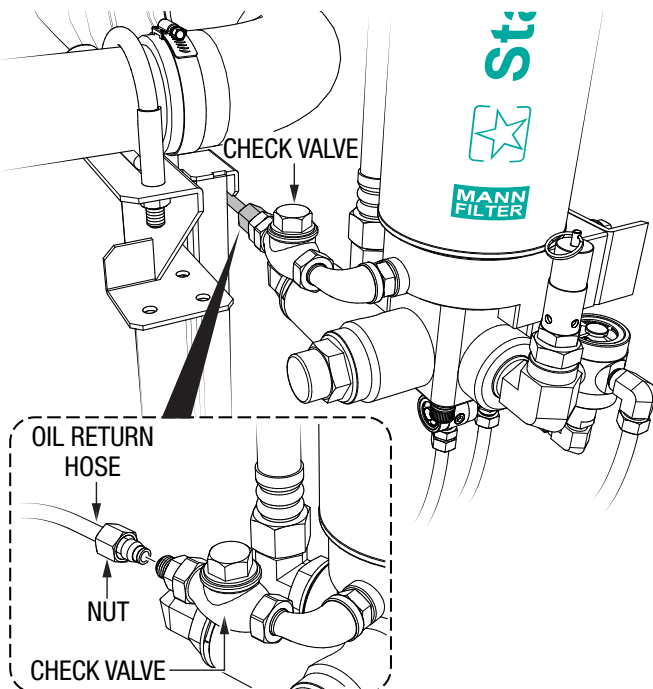


Figure 7. Oil Return Hose Disconnection

2. Remove the check valve from the air and oil separator assembly, and set aside. See Figure 8.

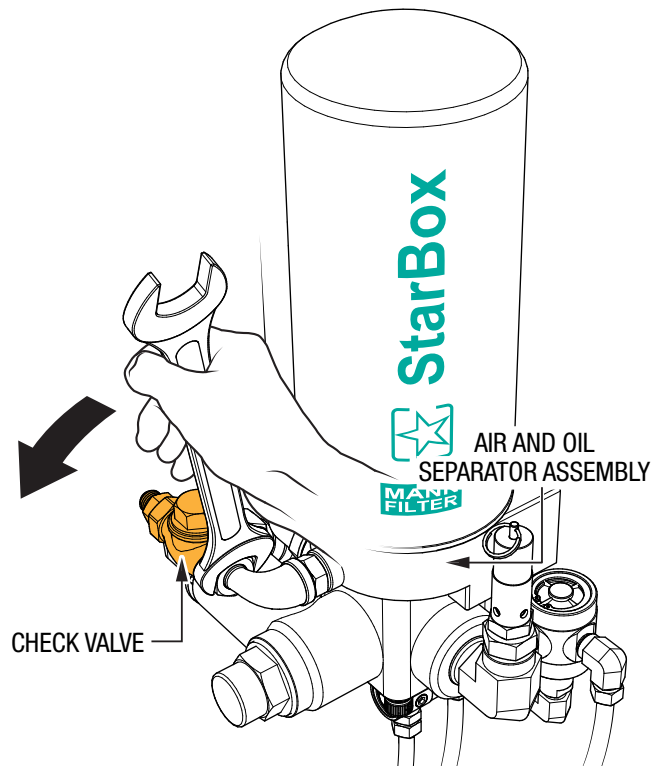


Figure 8. Check Valve Removal

3. Remove the elbow from the air and oil separator assembly (Figure 9).

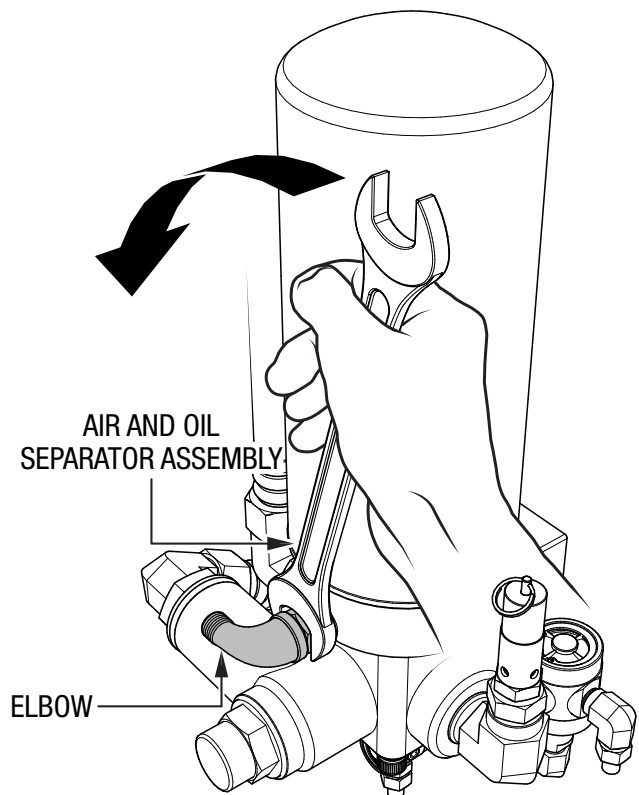


Figure 9. Elbow Removal

4. Place the elbow in a bench vise as shown in Figure 10, and remove the elbow adaptor from the elbow. Retain the adaptor, and discard the elbow.

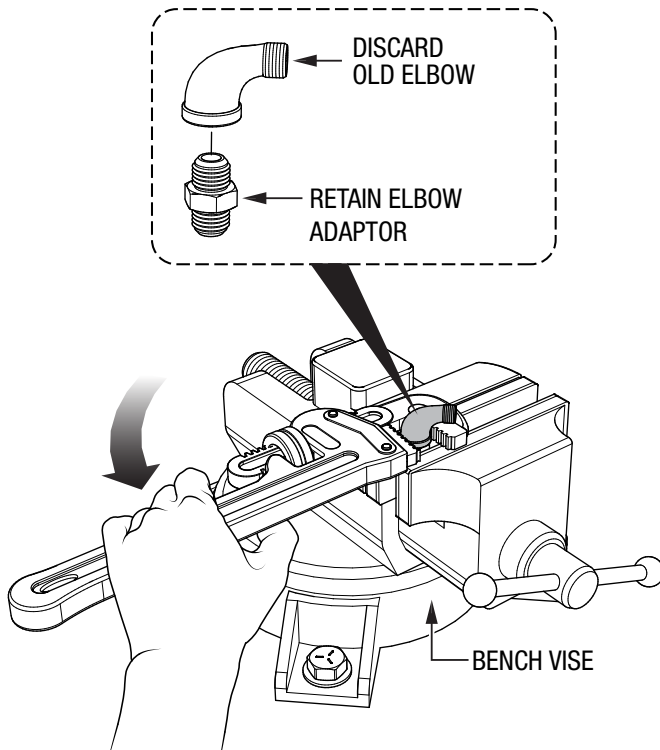


Figure 10. Elbow Adaptor Removal

5. Place the check valve in a bench vise and remove the check valve filter (Figure 11).

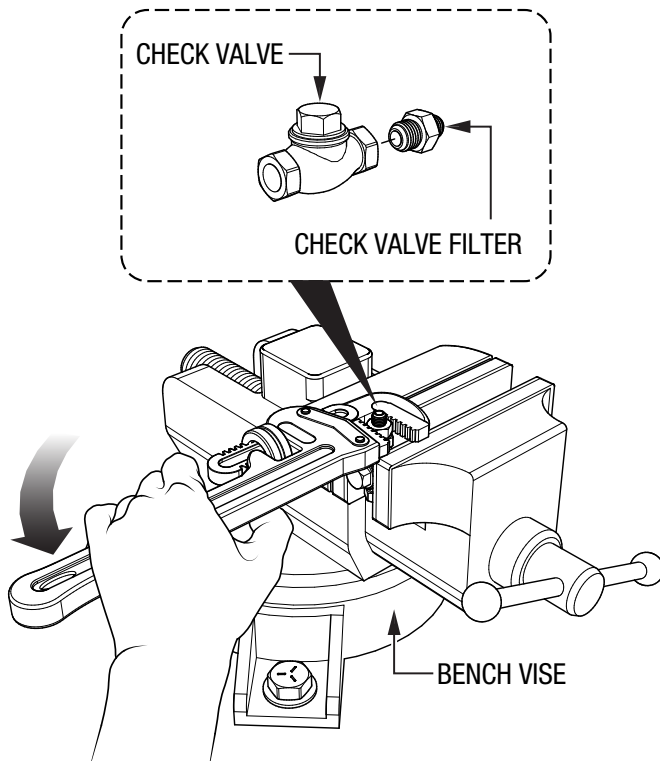


Figure 11. Check Valve Filter Removal

6. Use a grinder with a wire brush wheel to clean the elbow adaptor and check valve filter (Figure 12). Make sure they are smooth and free of burrs, rust, and debris.

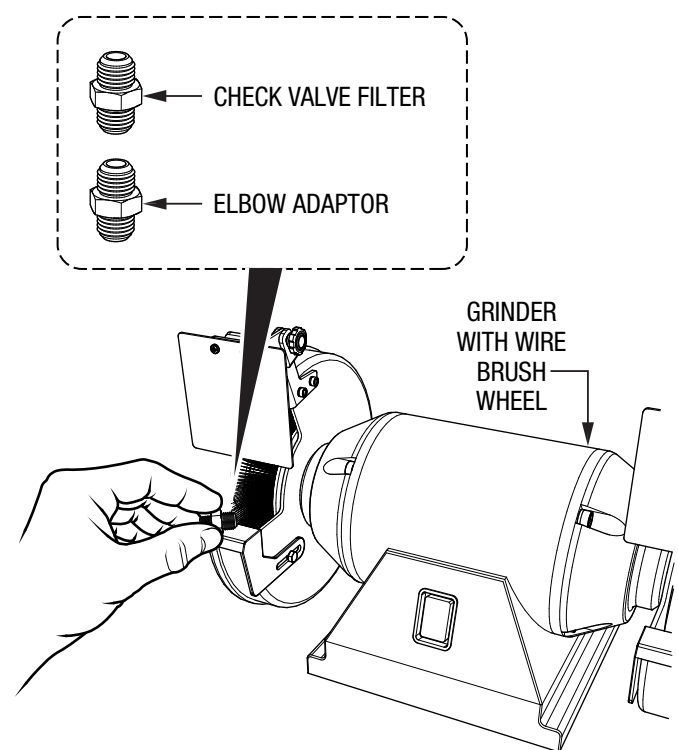


Figure 12. Clean Elbow Adaptor and Check Valve Filter

7. Inspect the inside of the check valve and check valve filter for blockage, residue, burrs, or any other dirt or debris (Figure 13). Clean out with compressed air as needed.

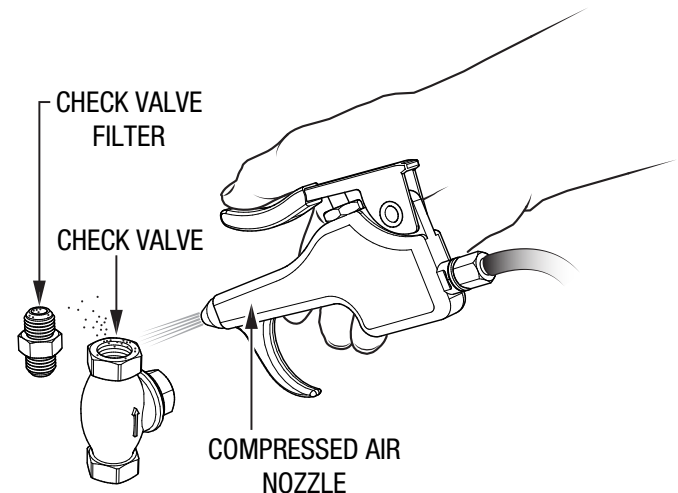


Figure 13. Check Valve and Filter Inspection and Cleaning

8. Look at the check valve and observe the arrow pointing towards one end of the valve (Figure 14). This is the end to which the check valve filter will connect.

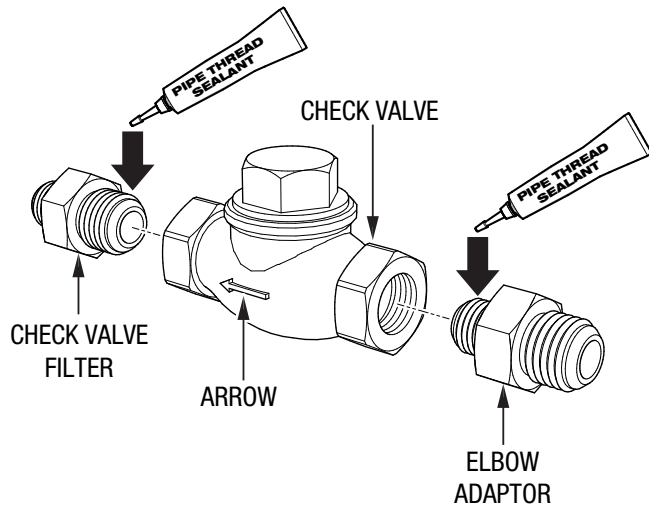


Figure 14. Check Valve Reassembly

9. Apply a small amount of pipe thread sealant to the male threads on the check valve filter (Figure 14).
10. Insert the check valve filter into the check valve (arrow end) and tighten securely (Figure 14).
11. Apply a small amount of pipe thread sealant to the male threads on one end of the elbow adaptor (Figure 14).
12. Insert the elbow adaptor into the open end of the check valve and tighten securely (Figure 14).

NOTICE

Use only a minimal amount of pipe thread sealant. Too much pipe thread sealant can contaminate the air compressor's hydraulic oil.

Minimum Pressure Valve Bracket Installation

1. Place the U-bolt clamp (P/N 0602326090) onto the minimum pressure valve as shown in Figure 15. Attach the minimum pressure valve bracket (P/N E2614804204) to the U-bolt clamp with the two self-locking nuts (P/N Y0207008000). **Hand tighten only** at this time.

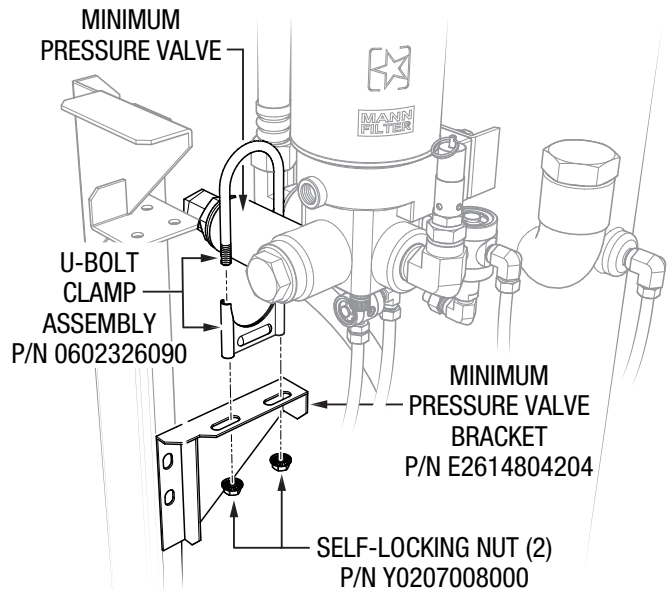


Figure 15. U-Bolt Clamp Installation

2. Use a locking C-clamp to temporarily secure the minimum pressure valve bracket (P/N E2614804204) to the air cleaner bracket. Make sure the minimum pressure valve bracket is straight and pressed flat against the air cleaner bracket. See Figure 16.

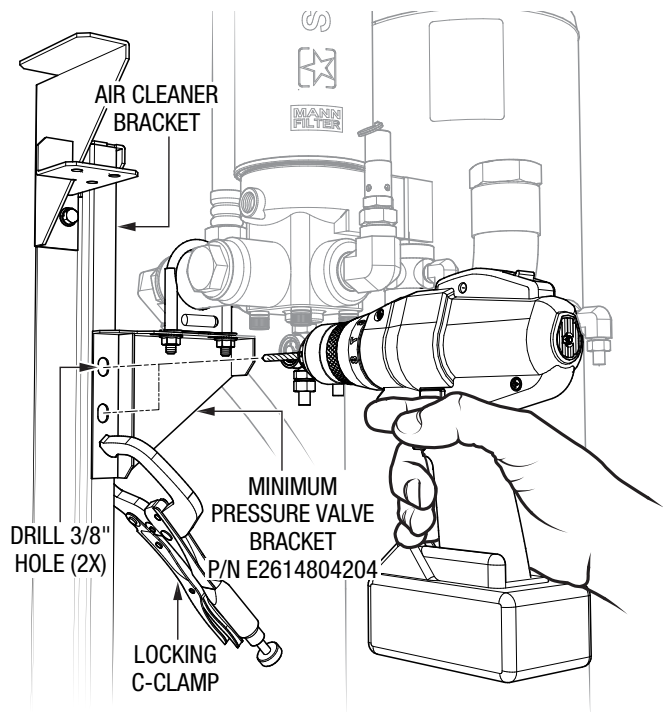


Figure 16. Temporarily Secure Bracket and Drill Holes

3. Using the holes in the minimum pressure valve bracket (P/N E2614804204) as a guide, drill two 3/8" holes into the air cleaner bracket. Clean out the new holes with compressed air. See Figure 16.

- Secure the minimum pressure valve bracket (P/N E2614804204) to the air cleaner bracket with the two hex head bolts (P/N 0016908020) and two hex nuts (P/N 23802). See Figure 17.

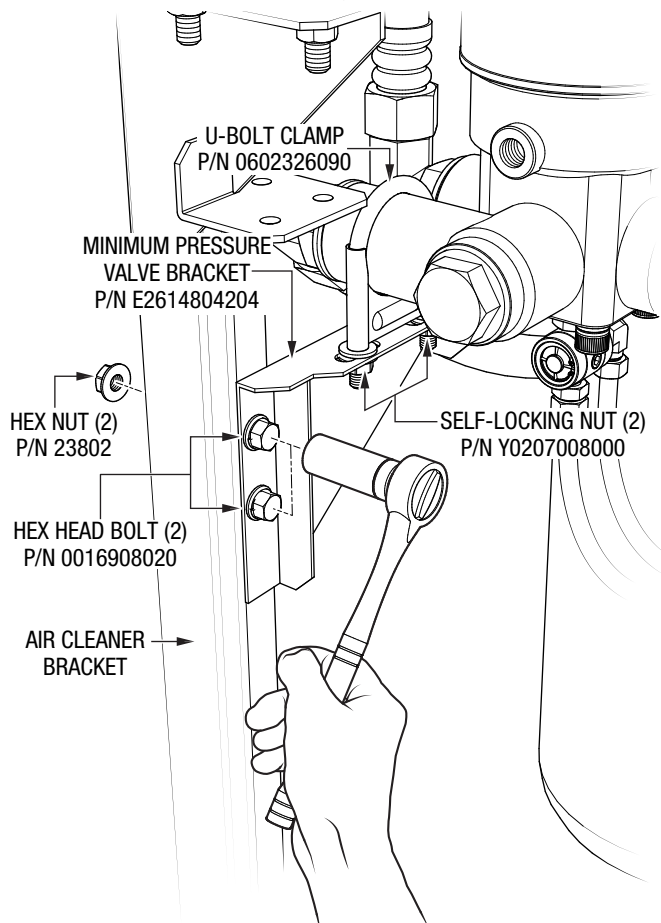


Figure 17. Secure Minimum Pressure Valve Bracket

- Tighten the two self-locking nuts (P/N Y0207008000) securing the minimum pressure valve bracket (P/N E2614804204) to the U-bolt clamp (P/N 0602326090). Make sure the clamp remains level and straight. See Figure 17.

Check Valve Installation

- Apply a small amount of pipe thread sealant to the male threads on the street elbow (P/N 0130202000). See Figure 18.

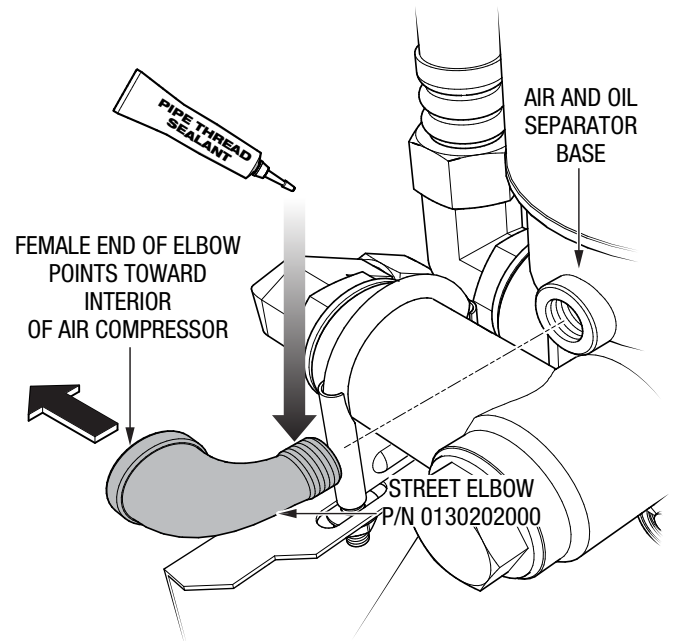


Figure 18. Street Elbow Installation

- Insert the street elbow (P/N 0130202000) into the open port on the air and oil separator base (Figure 18). Tighten the elbow securely while making sure the female end of the elbow points toward the interior of the unit as shown.
- Apply a small amount of pipe thread sealant to the male threads on the elbow adaptor (Figure 19).

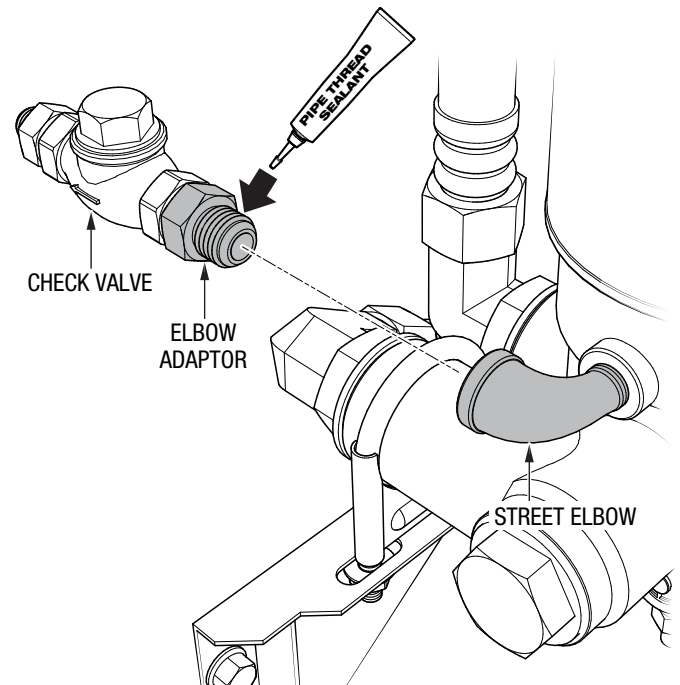


Figure 19. Check Valve Assembly Installation

- Insert the elbow adaptor end of the check valve assembly into the female end of the street elbow (P/N 0130202000), and tighten securely. See Figure 19.

Oil Return Hose Installation

1. Cut and discard the tie wrap securing the oil return hose to the other hoses, and pull the oil return hose out of its harness (Figure 20).

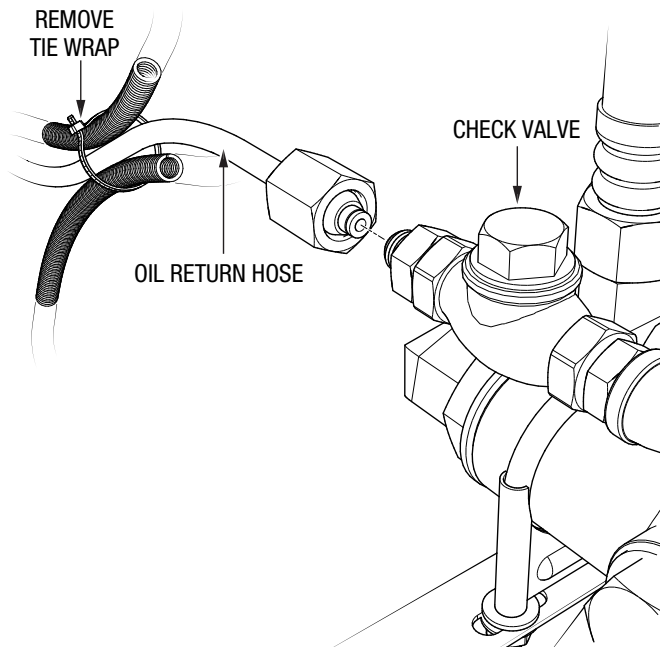


Figure 20. Access Oil Return Hose

2. Inspect the oil return hose (Figure 21) for damage. Replace immediately (P/N 0190400800) if damaged.

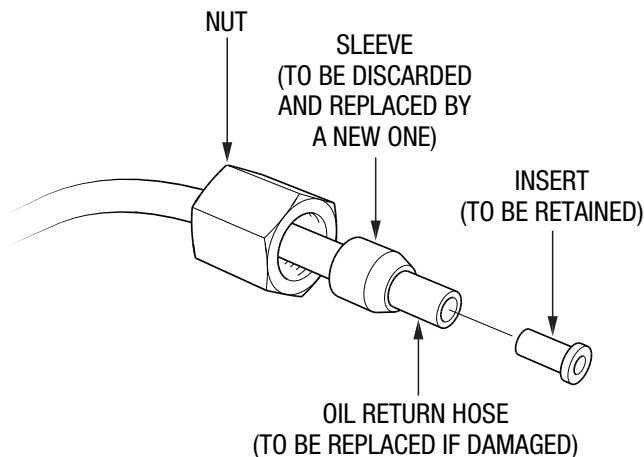


Figure 21. Oil Return Hose Insert Removal

3. Remove and retain the insert from the oil return hose (Figure 21).
4. Pull back the oil return hose nut as shown in Figure 22. Cut off and discard approximately 1/2" from the end of the hose, including the existing sleeve.

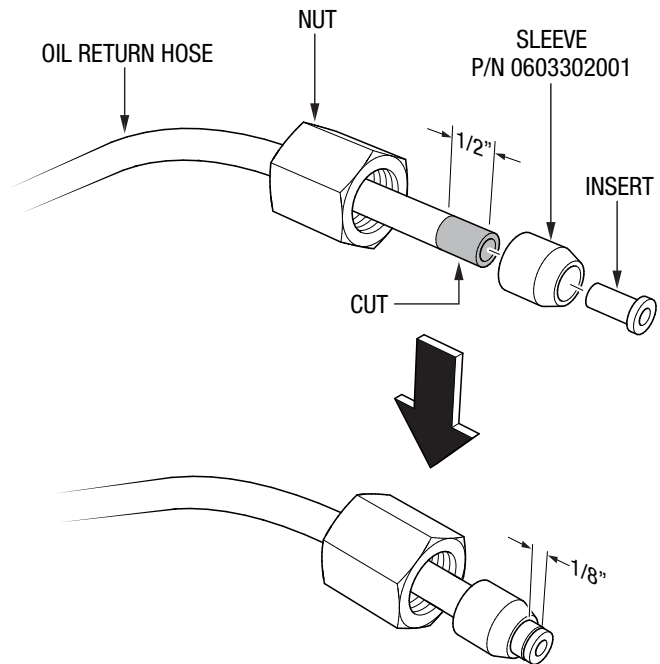


Figure 22. Oil Return Hose Preparation

5. Place the new sleeve (P/N 0603302001) onto the end of the oil return hose, with the tapered end of the sleeve pointing out towards the cut end of the hose. See Figure 22.
6. Slide the insert into the cut end of the oil return hose (Figure 22). Adjust the sleeve (P/N 0603302001) so that it is approximately 1/8" from the end of the hose.
7. Insert the oil return hose into the check valve filter (Figure 23). Tighten the oil return hose nut to secure.

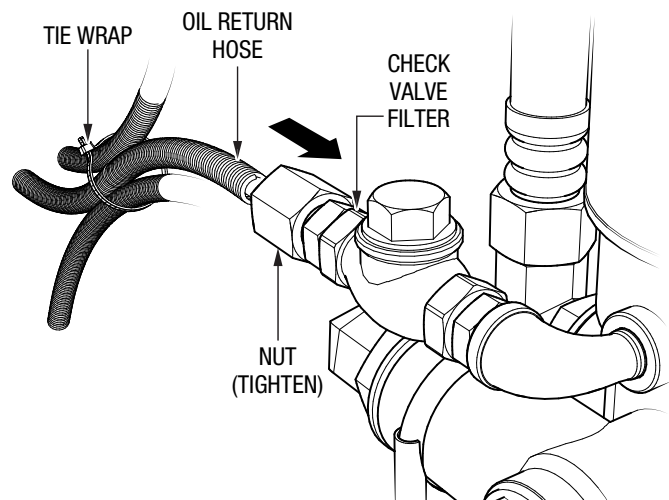


Figure 23. Oil Return Hose Installation

8. Rewrap the oil return hose in its harness and secure the harness to the other hose harnesses with a tie wrap (Figure 23).

Hydraulic Filter Installation

1. Reinstall the hydraulic filter with the original hardware that was removed earlier (Figure 24). Be sure to secure the two electrical connectors to the filter in their original positions.

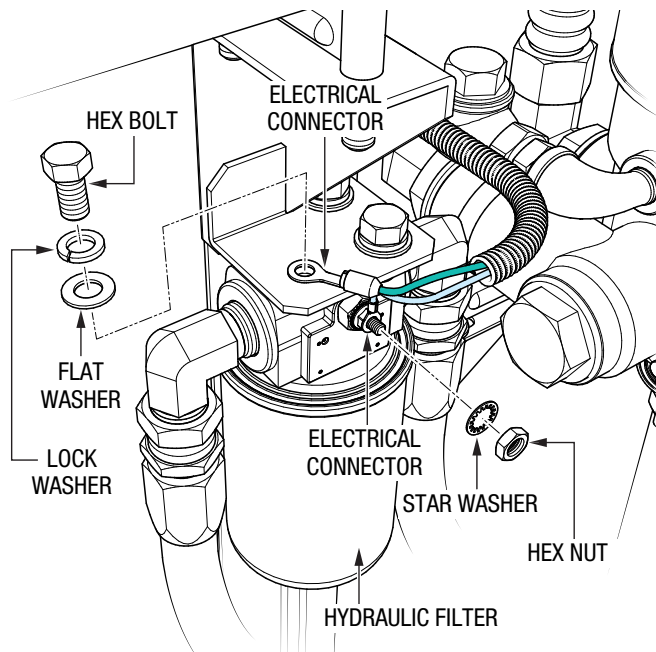


Figure 24. Hydraulic Filter Reinstallation

Air and Oil Separator Filter Maintenance

1. Remove the air and oil separator filter with a strap wrench (Figure 25). Take care to prevent oil from dripping inside the filter assembly during removal.

NOTICE

To prevent damage during removal, make sure wrench straps are placed on the reinforced edge of the air and oil separator filter.

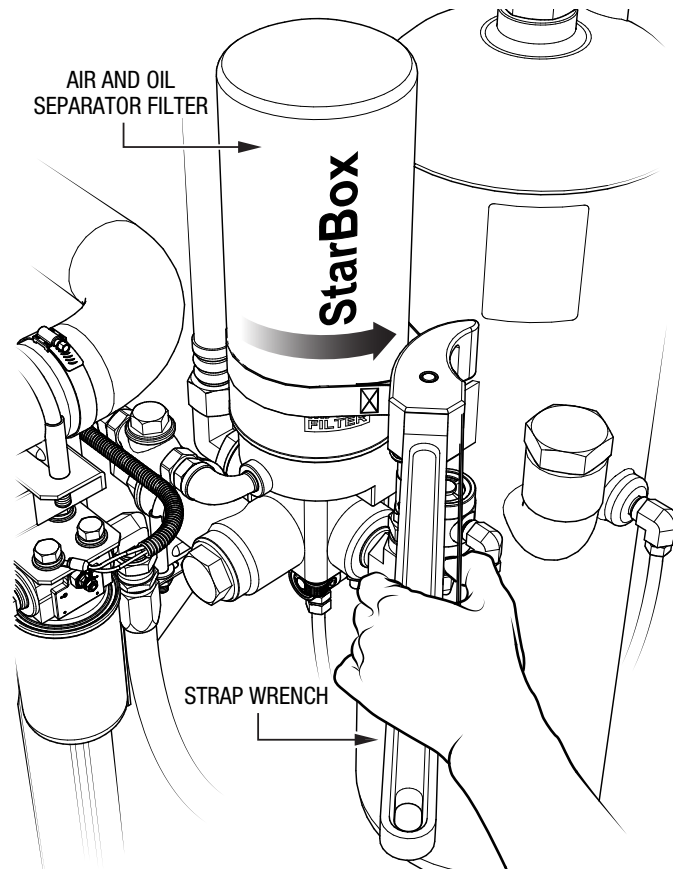


Figure 25. Air and Oil Separator Filter Removal

2. Inspect the air and oil separator nipple (Figure 26) for rust or other contaminants, and clean if necessary. If the nipple's oil passage holes are blocked, use compressed air to clear them.

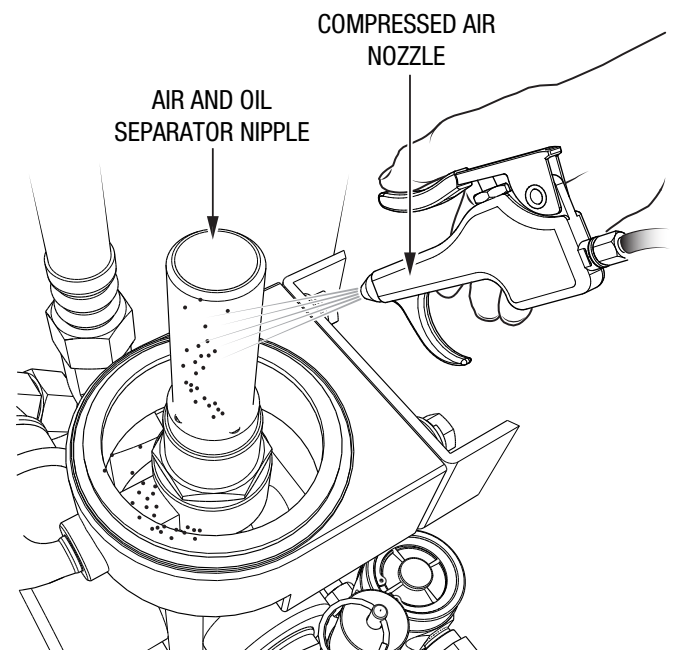


Figure 26. Air and Oil Separator Nipple Inspection and Cleaning

3. Inspect the air and oil separator filter for contaminants (Figure 27). Wipe off and blow out (with compressed air) any dirt or debris that has accumulated inside the box.



Figure 27. Air and Oil Separator Filter Inspection and Cleaning

4. Apply a small amount of oil along the air and oil separator filter seal (Figure 28).



Figure 28. Air and Oil Separator Filter Seal Lubrication

5. Reinstall the air and oil separator filter with a strap wrench (Figure 29).

NOTICE

To prevent damage during installation, make sure wrench straps are placed on the reinforced edge of the air and oil separator filter.

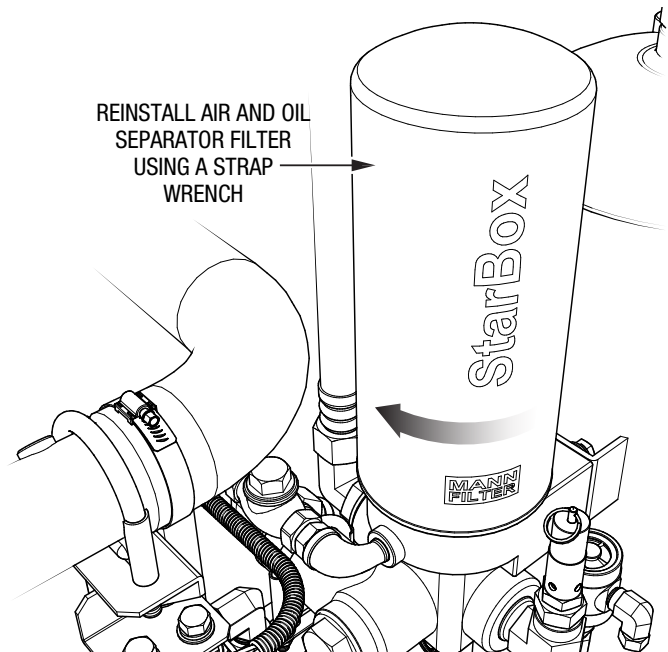


Figure 29. Air and Oil Separator Filter Reinstallation

Battery Connection

1. Reconnect the negative (**BLACK**) battery cable to the negative terminal on the battery and close the battery-side door (Figure 30).

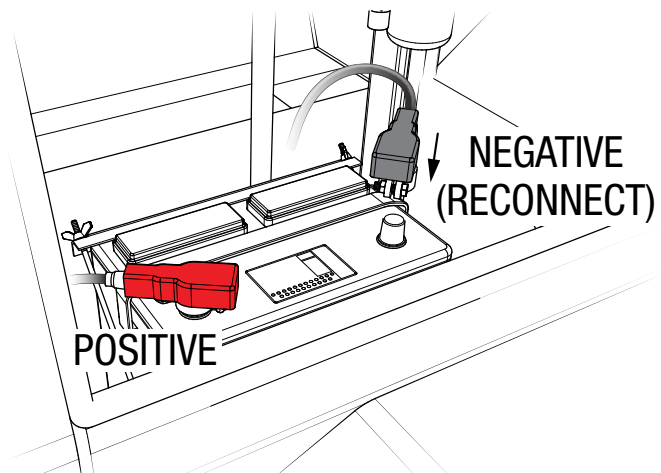


Figure 30. Battery Reconnection

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Service Bulletin

DIS185SSI4F Air Compressor

Multiple Component Update

HERE'S HOW TO GET HELP

PLEASE HAVE THE MODEL AND SERIAL
NUMBER ON-HAND WHEN CALLING

UNITED STATES

Multiquip Corporate Office

18910 Wilmington Ave. Tel. (800) 421-1244
Carson, CA 90746 Fax (310) 537-3927
Contact: mq@multiquip.com

Service Department

800-421-1244
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Technical Assistance

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Warranty Department

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