

IMPORTANT UPDATE — IMMEDIATE ACTION REQUIRED!

Date: 02/02/22
To: MQ Power Generator Owners
From: MQ Power Product Department
Subject: Diesel Exhaust Fluid - Engine Block Coolant Hose Connections



Dear Multiquip Customer,

Our records indicate that your company purchased one or more model DCA300SSJU4F3, DCA300SSJU4F3PD SG and DCA300SSJU4F3FEMA2 generators. We have become aware that the DEF tank coolant hoses have been installed incorrectly.

WARNING! Hoses running from the engine block to the Diesel Exhaust Fluid (DEF) tank were installed incorrectly. As a result, DEF may overheat due to a coolant restriction within the system and cause the generator to shutdown. The accompanying bulletin explains the corrective action required.

If these generators have been resold, please forward this bulletin to the new owner.

Your prompt attention to this matter is appreciated. If you have questions, please contact the Multiquip Technical Support Department at 800-478-1244 or techsupport@multiquip.com.

WARRANTY INFORMATION

Campaign: Reference No. GSP20220117

File your claim online via E-Warranty at <http://service.multiquip.com/warranty-support.html> or contact our warranty department for assistance at 800-421-1244.

Labor Allowance: 2.0 hour total flat rate for DEF tank coolant hoses relocation.



Service Bulletin

Coolant Hoses Relocation DCA300SSJU4F3, DCA300SSJU4F3PDSG, and DCA300SSJU4F3FEMA2

| | | | |
|--|---------------------------------|-------------------------------------|--|
| Product Group: Power Solutions | Date Issued: 02/02/22 | Expiration Date: 02/02/23 | Service Bulletin No. GSP20220117 |
|--|---------------------------------|-------------------------------------|--|

| Models/Serial Numbers Affected: | |
|---------------------------------|---------------------|
| Model | Serial Number Range |
| DCA300SSJU4F3 | 9110329 – 9110353 |
| | 9110359 – 9110369 |
| | 9110376 – 9110383 |
| | 9110404 – 9110407 |
| DCA300SSJU4F3PDSG | 9110354 – 9110358 |
| | 9110384 – 9110402 |
| | 9110408 – 9110431 |
| DCA300SSJU4F3FEMA2 | 9110370 – 9110373 |

| Details |
|--|
| <p>Problem:</p> <p>Hoses running from the engine block to the Diesel Exhaust Fluid (DEF) tank were installed incorrectly. As a result, DEF may overheat due to a coolant restriction within the system and cause the generator to shutdown.</p> <p>Solution:</p> <p>Relocate DEF tank coolant hoses.</p> |

| Parts Information |
|---|
| <div>NOTICE No parts are required for this modification.</div> |

WORK SAFELY!

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

PREPARATION

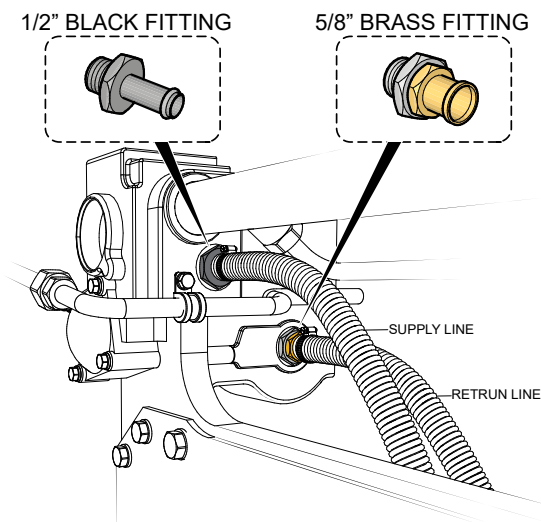
1. Make sure the generator is turned off and **the engine is cool.**
2. Place the generator in an area free of dirt and debris. If trailer mounted, make sure it is on secure, level ground with chock blocks underneath each wheel to prevent the generator from rolling.
3. Disconnect the **negative** battery cable from the battery post.

REQUIRED TOOLS

- Ratchet with 1-1/16 Socket
- Flat-Head Screwdriver

VERIFICATION

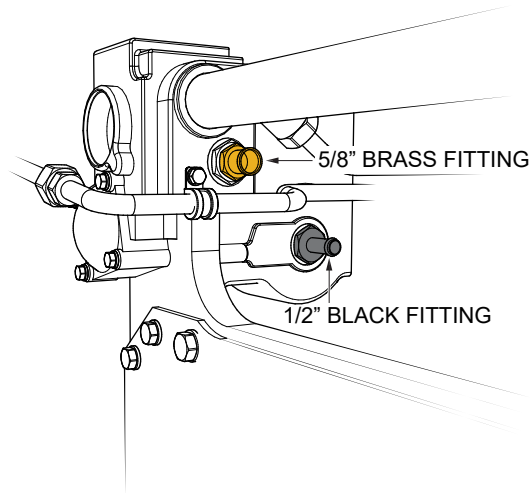
1. Open the generator enclosure door to gain access to the engine.
2. Next, locate the DEF tank coolant hoses that are attached to the engine block as referenced in Figure 1.
3. Verify that the 1/2" **BLACK** barb hose fitting (supply) is inserted into the **upper** left-side of the engine block and the 5/8" **BRASS** barb hose fitting (return) is inserted into the **bottom** right-side of the engine block as referenced in Figure 1.



**Figure 1. Black/Brass Hose Fittings
Correct Installation**

4. If the 1/2" **BLACK** and 5/8" **BRASS** barb hose fittings are in the **correct** location as defined in step 3 and Figure 1, then **no further action is required.** It can then be assumed that the DEF tank coolant hoses have been installed correctly.
5. If the 5/8" **BRASS** barb hose fitting is inserted into the **upper** left-side of the engine block and the 1/2" **BLACK** barb hose fitting is inserted into the **bottom** right-side of the engine block as referenced in Figure 2, it can then be assumed that the two DEF tank coolant fittings/hoses have been installed **incorrectly.**

INCORRECT INSTALLATION



**Figure 2. Black/Brass Hose Fittings
Incorrect Installation**

6. Place a pan or suitable container (Figure 3) underneath the coolant drain valve.
7. Open coolant drain valve to drain coolant.

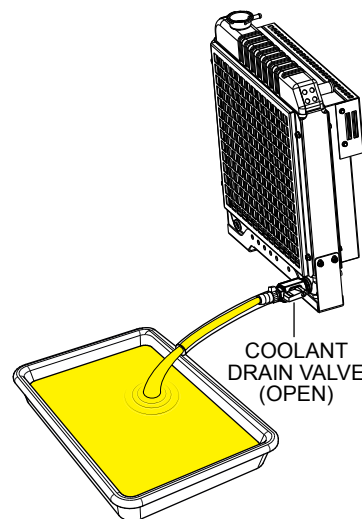


Figure 3. Draining Radiator

5/8" Brass Barb Fitting Removal

1. Using a flat-blade screwdriver, loosen the worm clamp securing the **return line** hose to the 5/8" **BRASS** barb fitting as shown in Figure 4.

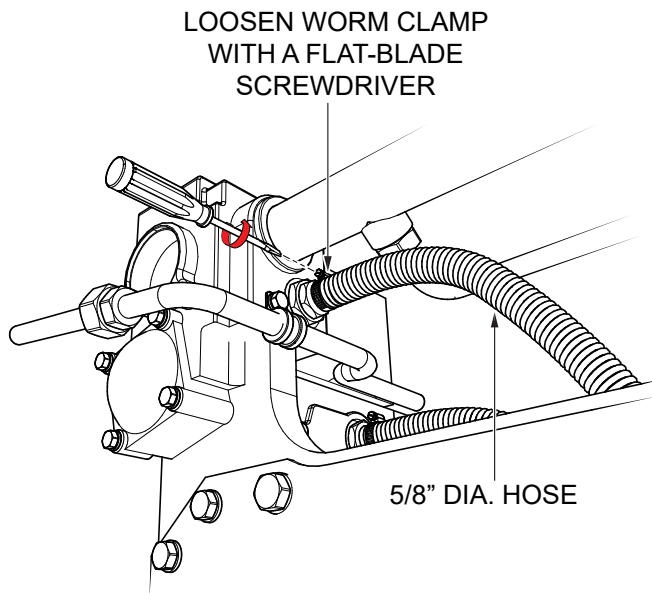


Figure 4. Worm Clamp Removal (Brass Fitting)

2. Next, **remove** the return line hose from the 5/8" **BRASS** barb fitting and place a pan or suitable container (Figure 5) underneath the fitting to let the fluid drain into.

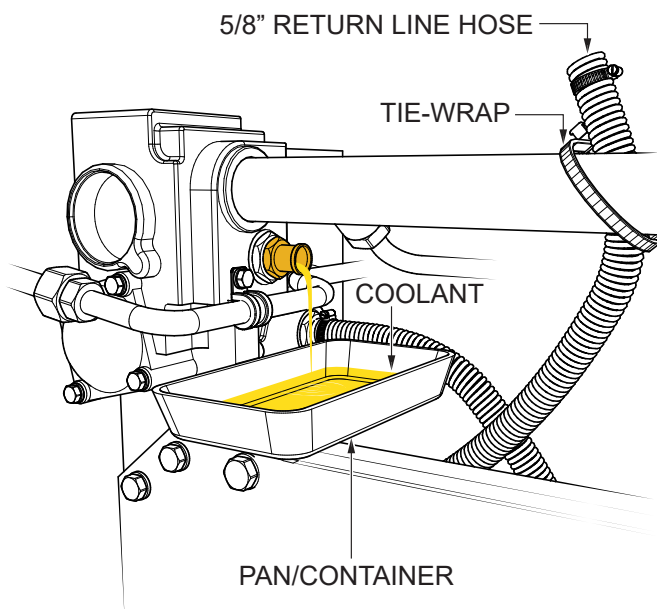


Figure 5. DEF Tank 5/8" Return Line Hose Removal (Engine Block Side)

3. Using a tie-wrap, secure the return line hose in an upright position as shown in Figure 5 to keep the fluid from spilling.

4. Next, use a 1-1/16" deep socket to **remove** the 5/8" **BRASS** barb fitting from the engine block (Figure 6).

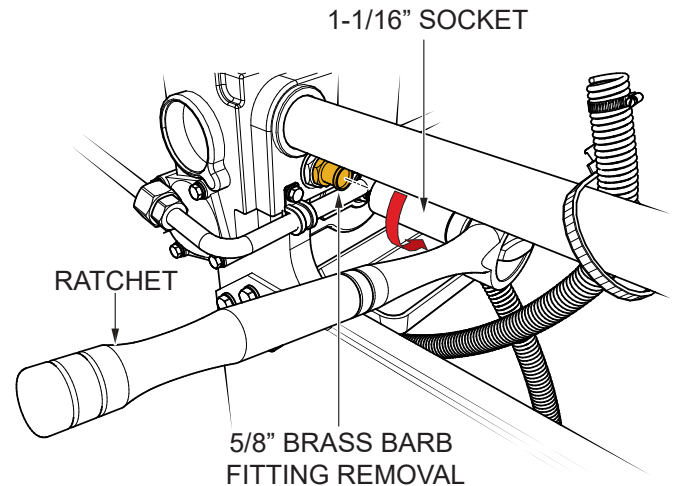


Figure 6. 5/8" Brass Barb Fitting Removal Engine Block Side

1/2" Black Barb Fitting Removal

1. Using a flat-blade screwdriver, loosen the worm clamp securing the **supply line** hose to the 1/2" **BLACK** barb fitting as shown in Figure 7.

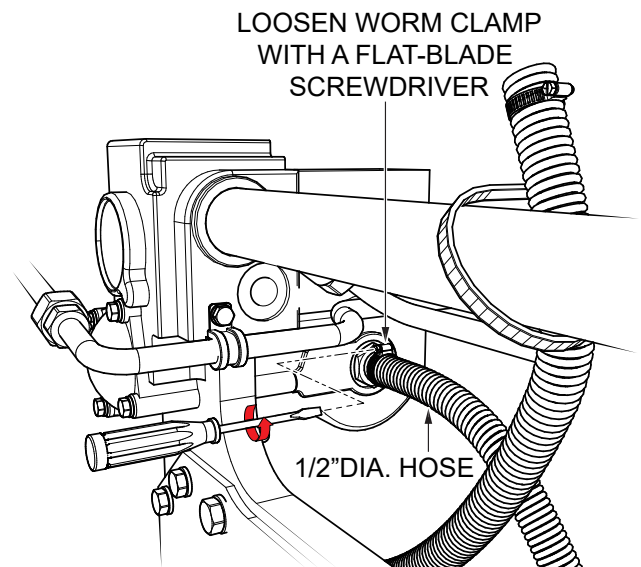
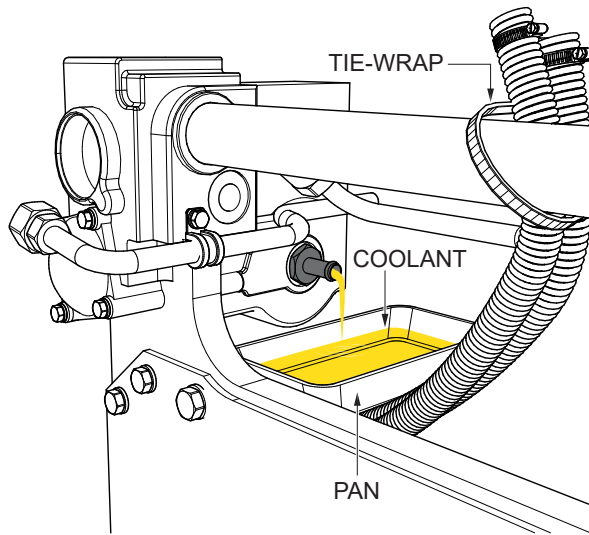


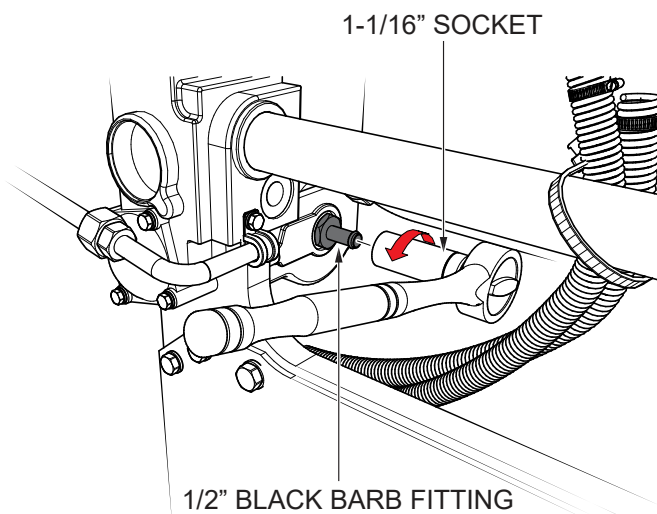
Figure 7. Worm Clamp Removal (Black Fitting)

2. Next, **remove** the supply line hose from the 1/2" **BLACK** barb fitting and place a pan or suitable container (Figure 8) underneath the fitting to let the fluid drain into.



**Figure 8. DEF Tank 1/2" Hose Removal
Engine Block Side**

3. Use a 1-1/16" deep socket to **remove** the 1/2" **BLACK** barb fitting from the engine block as shown in Figure 9.



**Figure 9. 1/2" Black Barb Fitting Removal
Engine Block Side**

1/2" Black and 5/8" Brass Barb Fittings Relocation

1. Insert the 1/2" **BLACK** barb hose fitting (supply line) into the **upper** left-side of the engine block as shown in Figure 10.

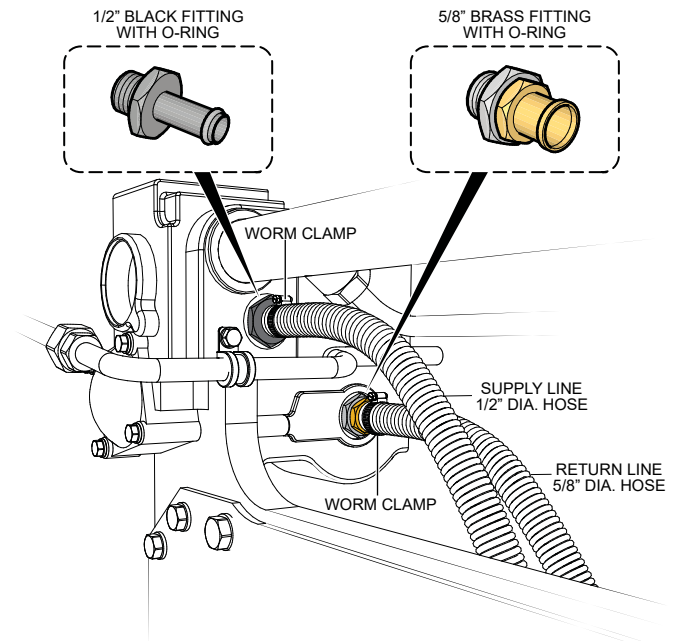


Figure 10. Final Installation (Correct Location)

2. Using a 1-1/16" deep socket tighten the 1/2" **BLACK** barb hose fitting securely.
3. Next, insert the **BRASS** 5/8" barb hose fitting (return line) into the **bottom** right-side of the engine block as referenced in Figure 10.
4. Using a 1-1/16" deep socket tighten the 5/8" **Brass** barb hose fitting securely.
5. Attach the 1/2" diameter hose (**supply line**) to the **BLACK** 1/2" barb hose fitting. Secure hose with worm clamp.
6. Attach the 5/8" diameter hose (**return line**) to the 5/8" **BRASS** barb hose fitting. Secure hose with worm clamp.
7. Close coolant drain valve and add required amount of coolant.
8. Reconnect **negative** battery cable to the battery post.
9. Close generator enclosure door.

TESTING

1. Start the generator as referenced in the Operator's Manual.
2. If possible run the generator under load.
3. Let the engine run for 10-15 minutes or until the coolant temperature reaches approximately 185°~207°F. (85°~97°C).
4. Check for coolant leaks within the cooling system.
5. If any leaks or abnormalities exists, turn off the engine and correct the problem.
6. Check coolant level, top off if necessary.



Service Bulletin

***Coolant Hoses Relocation DCA300SSJU4F3,
DCA300SSJU4F3PDSG, and DCA300SSJU4F3FEMA2***

HERE'S HOW TO GET HELP

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

UNITED STATES

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6141 Katella Avenue Suite 200
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