



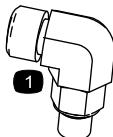
Hot Oil Shuttle Kit

2226 Directional Drill

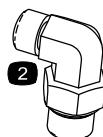
Model No. 139-2475

Installation Instructions

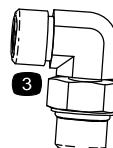
Parts List



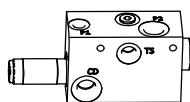
1x



1x



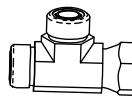
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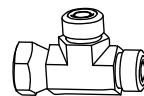
1x



1x



1x



2x



4x



2x



2x



1x



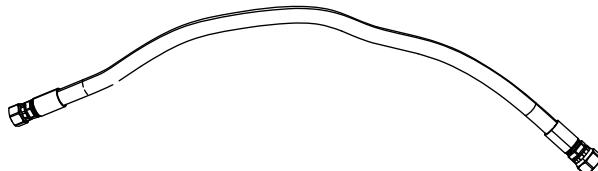
3x



43 cm (17-1/2 inch) — 1x



45 cm (18-1/2 inch) — 1x

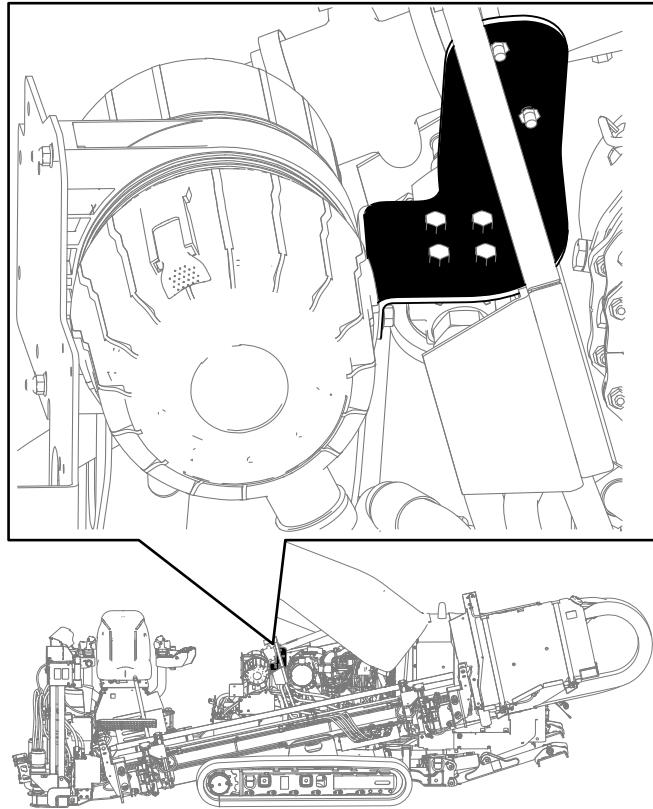


84 cm (33 inch) — 1x



Installing the Manifold

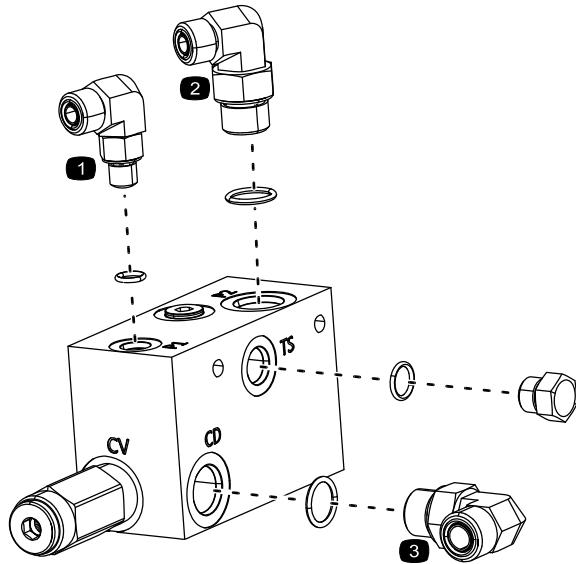
1. Move the machine to a level surface, shut off the engine, remove the key, turn the battery disconnect switch to the OFF position, and wait for the engine to cool; refer to the *Operator's Manual*.



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Figure 1

2. Install and hand tighten the fittings onto the manifold (Figure 2).



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Figure 2

3. Install the plug onto the manifold (Figure 2) and torque to 46 to 57 N·m (34 to 42 ft-lbs).

4. Remove and discard the bolts on the charge filter mount (Box A of [Figure 3](#)).

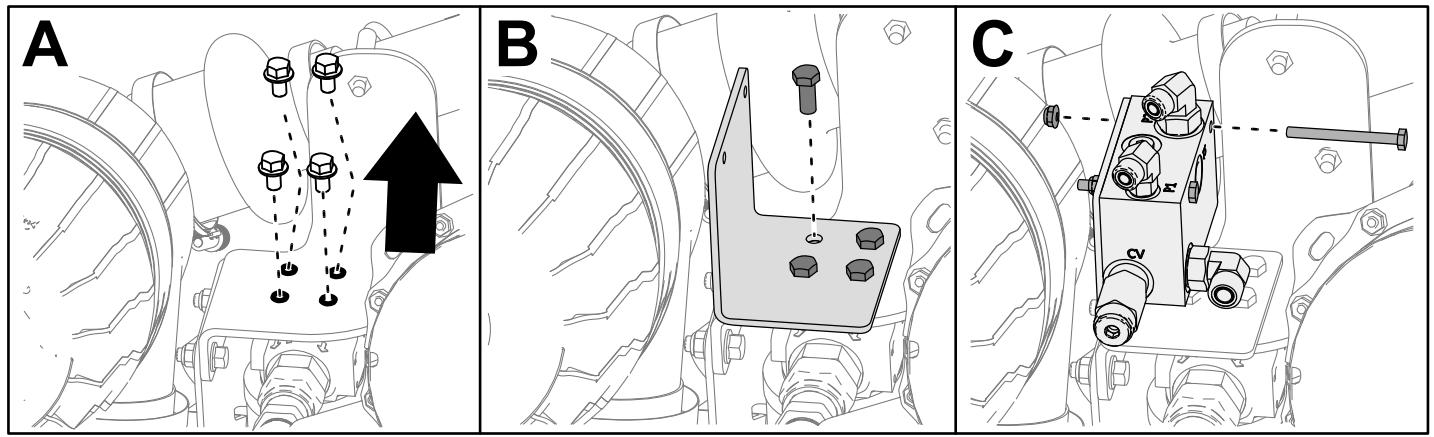


Figure 3

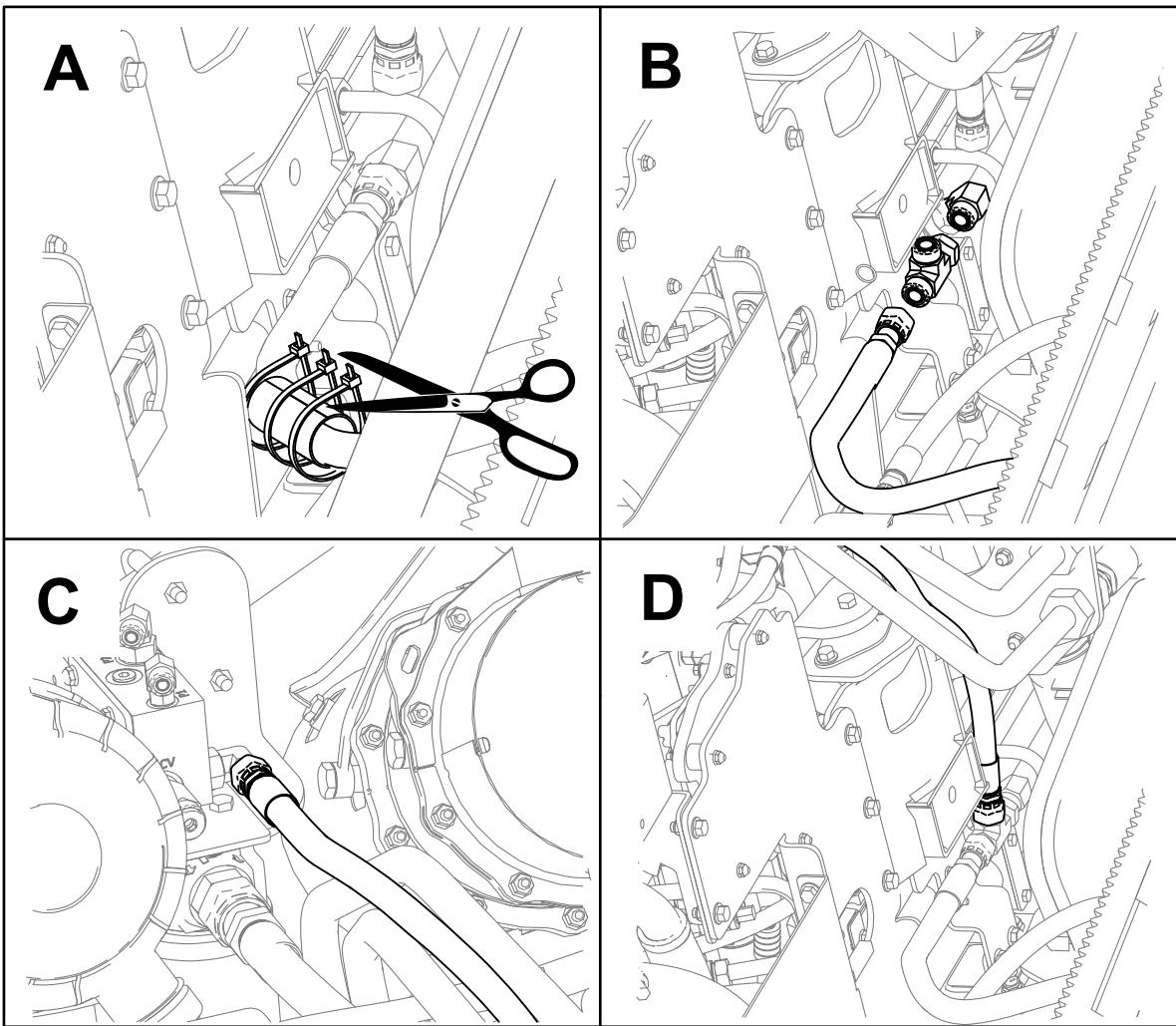
5. Install the bracket using 4 bolts (3/8 inch) as shown in Box B of [Figure 3](#).

6. Install the manifold and fittings onto the bracket using 2 bolts (1/4 x 2-3/4 inches) and 2 nuts (1/4 inch) as shown in Box C of [Figure 3](#).

Installing the Hoses

Installing the 84 cm (33 inch) Hose

1. Cut the cable ties on the hose guard and set the guard aside (Box A of [Figure 4](#)).
2. Disconnect the hose from the fitting on the case drain hard line (Box B of [Figure 4](#)).



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Figure 4

3. Install the large tee between the fitting and disconnected hose (Box B of [Figure 4](#)).
4. Install the 84 cm (33 inch hose) in port CD on the manifold and the top of the tee fitting (Box C and D of [Figure 4](#)).

5. Torque the fittings (Figure 5):

Important: Support the tee fitting with a crows foot on a long extension or from the side with a board or hammer handle.

- Fitting on the manifold: 78 to 98 N·m (58 to 72 ft-lb)
- 84 cm (33 inch) hose in port CD: 50 to 64 N·m (37 to 47 ft-lb)
- 84 cm (33 inch) hose connecting to the tee fitting: 81 to 100 N·m (60 to 74 ft-lb)
- Tee fitting: 81 to 100 N·m (60 to 74 ft-lb)
- Existing hose connecting to the tee fitting: 81 to 100 N·m (60 to 74 ft-lb)

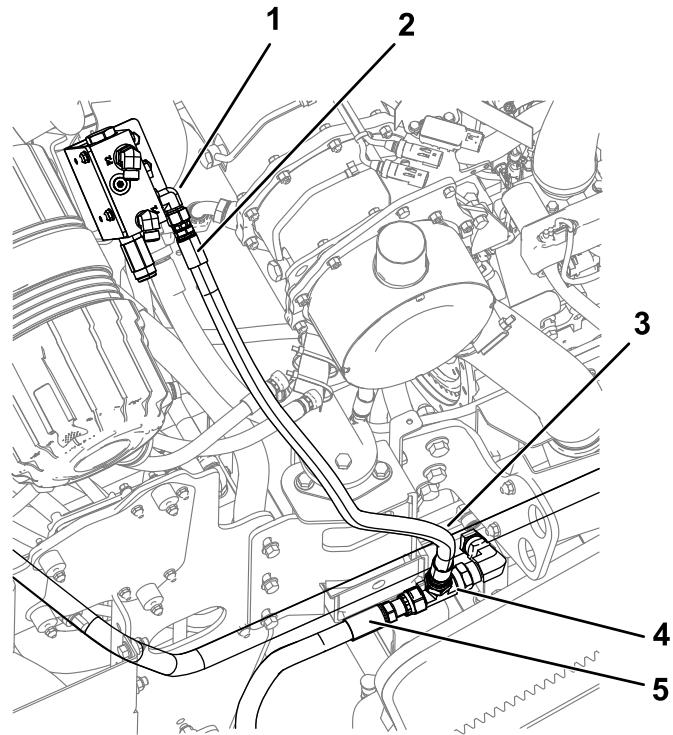


Figure 5

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1. Fitting on the manifold

2. 84 cm (33 inch) hose in port CD

3. 84 cm (33 inch) hose connecting to the tee fitting

4. Tee fitting

5. Existing hose connecting to the tee fitting

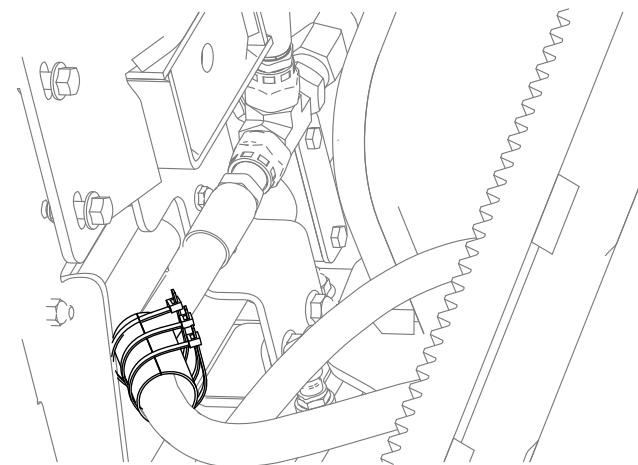


Figure 6

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6. Install the hose guard using the 3 cable ties (Figure 6).

Installing the 43 cm (17-1/2 inch) Hose

1. Disconnect the hose from the upper hard line going to the rotary hydrostat (Box A of [Figure 7](#)).
2. Install a small tee between the hard line fitting and the disconnected hose (Box B of [Figure 7](#)).
3. Connect the 43 cm (17-1/2 inch) hose to the P2 fitting to the tee fitting (Box C of [Figure 7](#)).

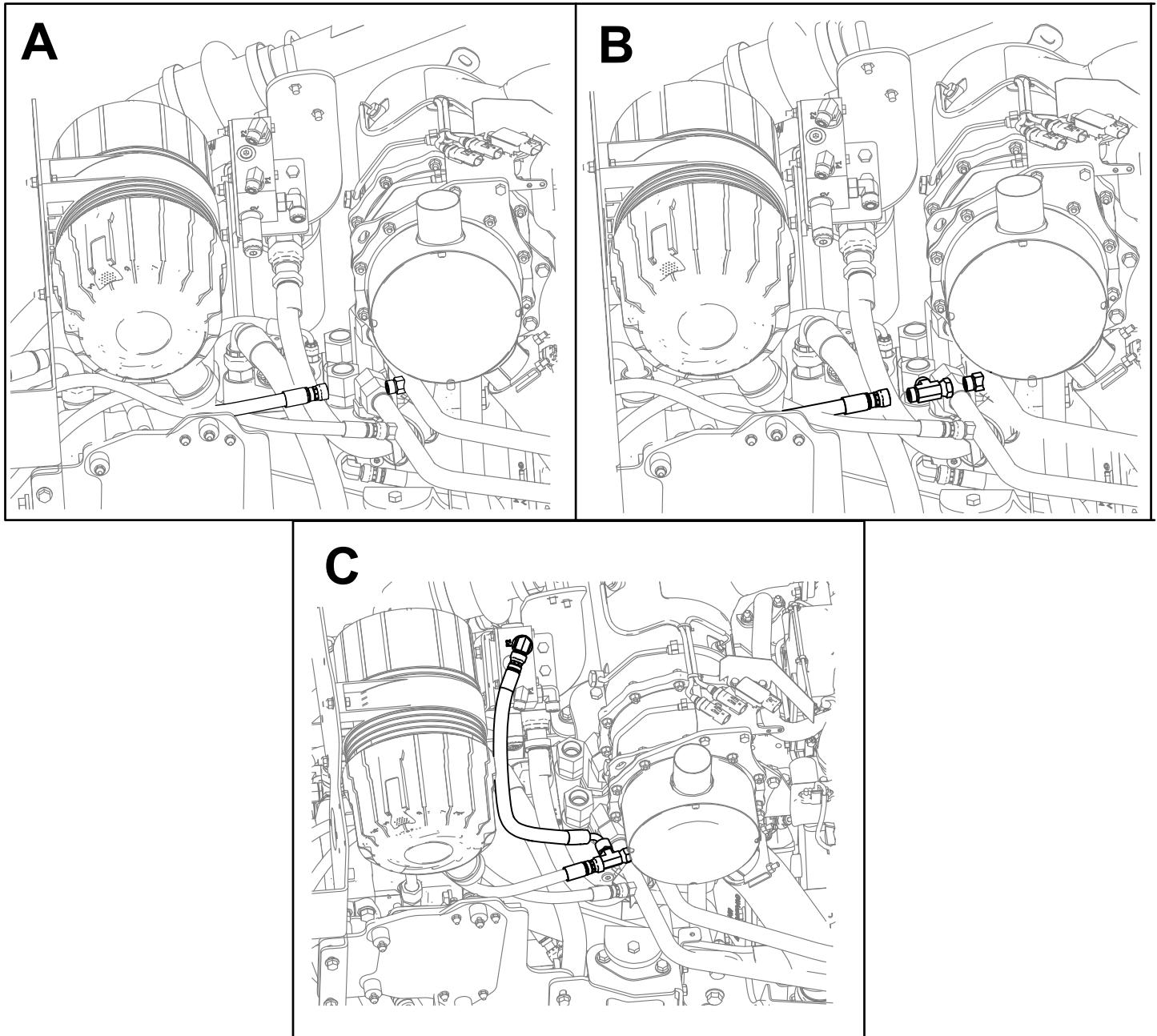


Figure 7

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4. Torque the fittings (Figure 8):

- Fitting on the manifold: 78 to 98 N·m (58 to 72 ft-lb)
- 43 cm (17-1/2 inch) hose in port P2: 37 to 45 N·m (27 to 33 ft-lb)
- 43 cm (17-1/2 inch) hose connecting to the tee fitting: 37 to 45 N·m (27 to 33 ft-lb)
- Tee fitting: 37 to 45 N·m (27 to 33 ft-lb)
- Existing hose connecting to the tee fitting: 37 to 45 N·m (27 to 33 ft-lb)

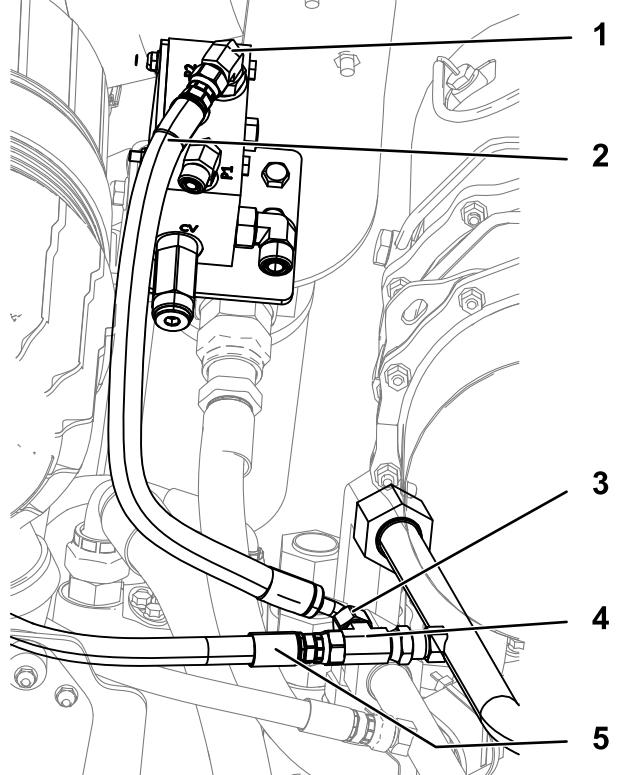


Figure 8

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1. Fitting on the manifold
2. 43 cm (17-1/2 inch) hose in port P2
3. 43 cm (17-1/2 inch) hose connecting to the tee fitting
4. Tee fitting
5. Existing hose connecting to the tee fitting

Installing the 45 cm (18-1/2 inch) Hose

1. Disconnect the hose from the lower hard line going to the rotary hydrostat (Box A of [Figure 9](#)).
2. Install a small tee between the hard line fitting and the disconnected hose (Box B of [Figure 9](#)).
3. Connect the 45 cm (18-1/2 inch) hose to the P1 fitting to the tee fitting (Box C of [Figure 9](#)).

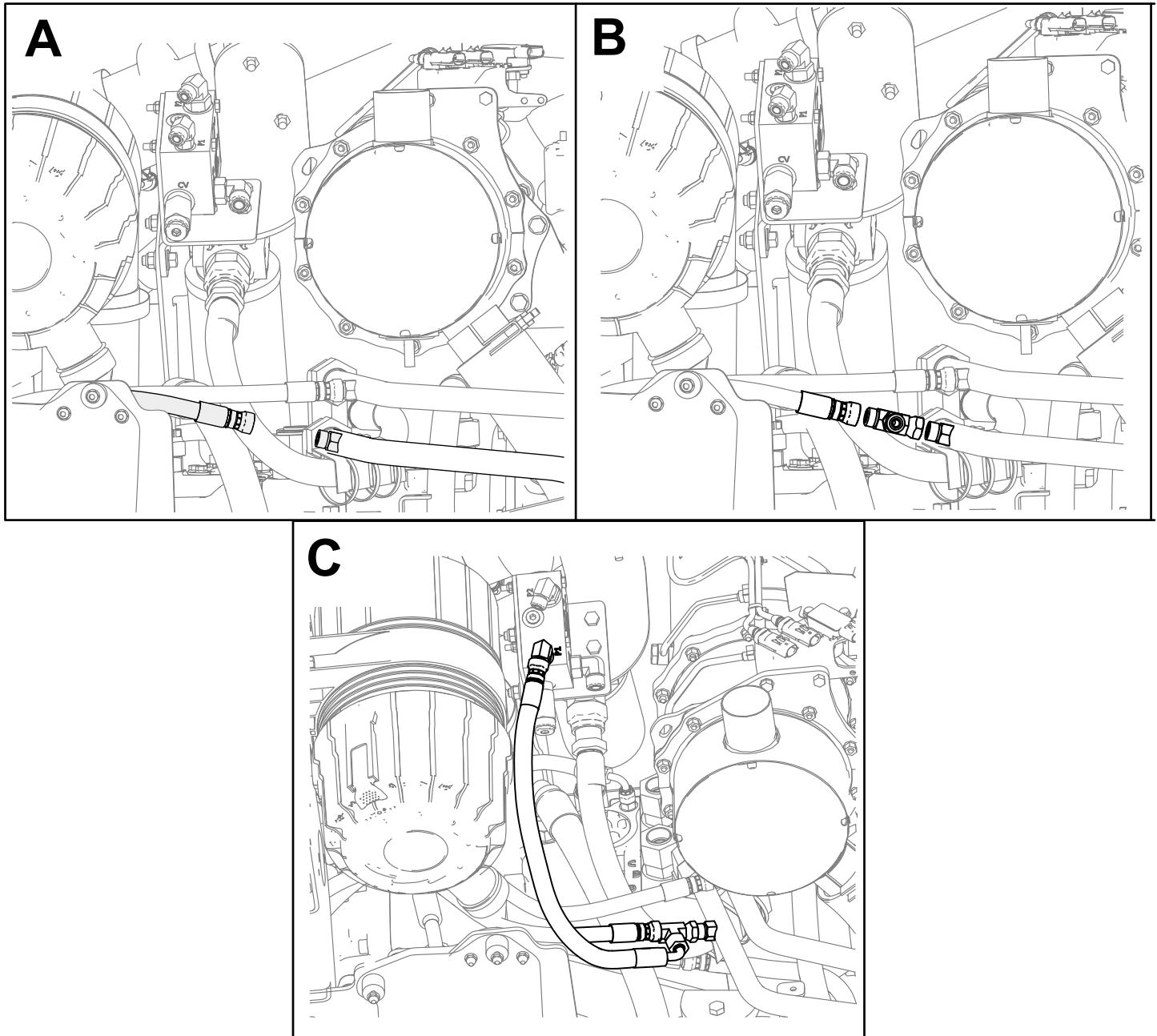
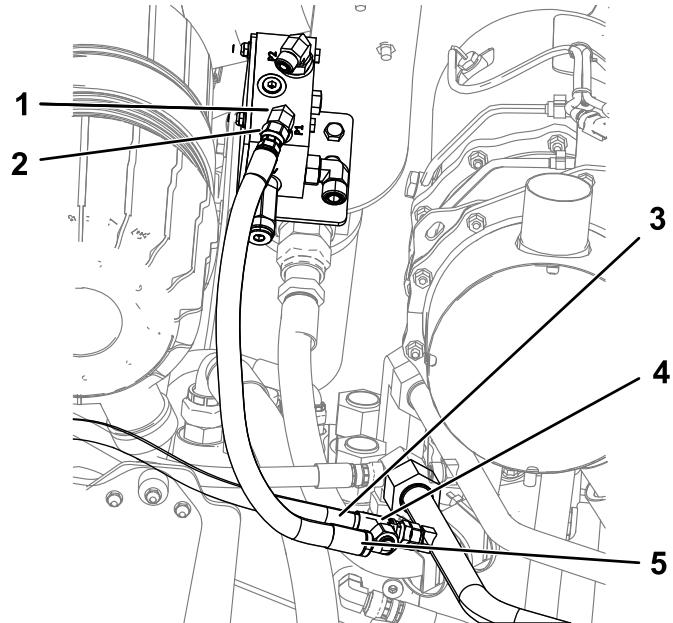


Figure 9

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4. Torque the fittings (Figure 10):

- Fitting on the manifold: 20 to 26 N·m (15 to 19 ft-lb)
- 45 cm (18-1/2 inch) hose in port P1: 37 to 45 N·m (27 to 33 ft-lb)
- 45 cm (18-1/2 inch) hose connecting to the tee fitting: 37 to 45 N·m (27 to 33 ft-lb)
- Tee fitting: 37 to 45 N·m (27 to 33 ft-lb)
- Existing hose connecting to the tee fitting: 37 to 45 N·m (27 to 33 ft-lb)



g270998

Figure 10

1. Fitting on the manifold	4. Tee fitting
2. 45 cm (18-1/2 inch) hose in port P1	5. Existing hose connecting to the tee fitting
3. 45 cm (18-1/2 inch) hose connecting to the tee fitting	

Notes:

Notes:



Count on it.