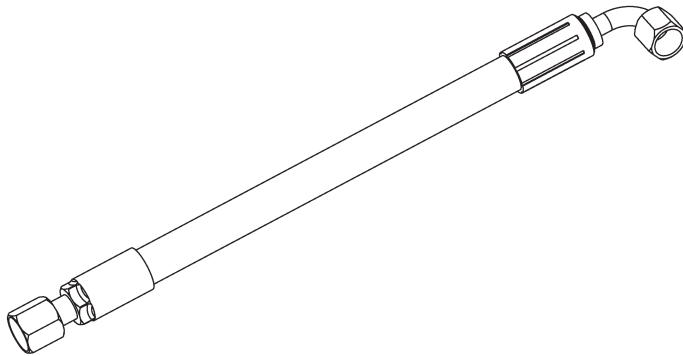


## INSTRUCTION, BMRA FILTER LINE FIELD FIX KIT P/N 297072-01

**NOTE:** This field fix kit is used to replace the steel line on the oil filter outlet in BMRA and BMRSD pump boxes. It applies to gravity down, power down, single pump, and dual pump models.



**HOSE, 1/2" MP, JIC#8F TO JIC#8F  
P/N 297071-01  
QTY. 1**



**STRAIGHT FITTING  
#6 O-RING, M-M JIC#8  
P/N 253701  
QTY. 1**



**45° ELBOW, JIC 37°  
#8M - NPT #6F  
P/N 906965-01  
QTY. 1**

### **⚠ WARNING**

**To prevent accidental personal injury and equipment damage, make sure power is disconnected from Liftgate while installing parts.**

1. Turn **OFF** the master disconnect switch at the pump box to disconnect battery power from the hydraulic pumps. Refer to **BMRA Operation Manual** for detailed instructions.

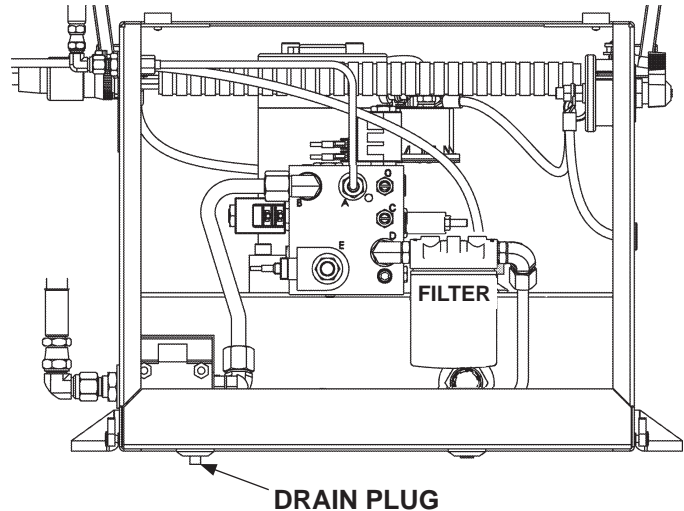
## CAUTION

Keep dirt, water and other contaminants from entering the hydraulic system. Before opening the hydraulic fluid reservoir filler cap, drain plug and hydraulic lines, clean up contaminants that can get in the openings. Also, protect the openings from accidental contamination. Never mix synthetic fluids with conventional hydraulic fluids. Hydraulic system must be purged if the fluids are mixed.

2. Place clean and empty 5 gallon bucket under drain plug of reservoir (**FIG. 2-1**).

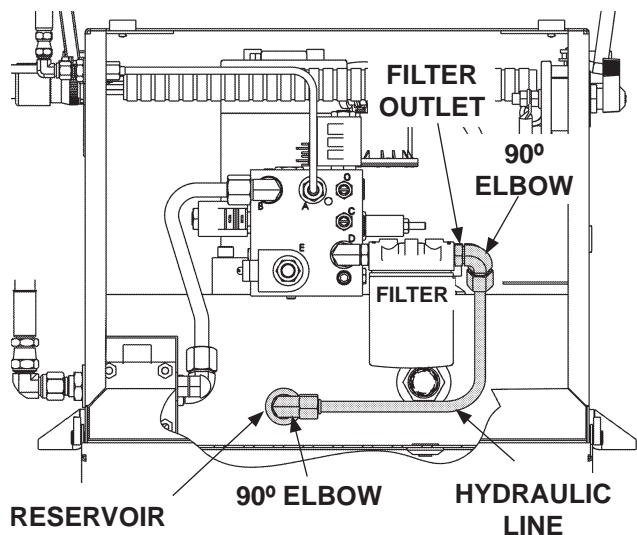
**NOTE:** Keep the hydraulic oil clean so it can be used refill the reservoir.

3. Remove drain plug (**FIG. 2-1**). Drain hydraulic fluid from reservoir. Reinstall drain plug and tighten securely.



**DRAINING OIL FROM RESERVOIR  
(SINGLE HYDRAULIC PUMP SHOWN)  
FIG. 2-1**

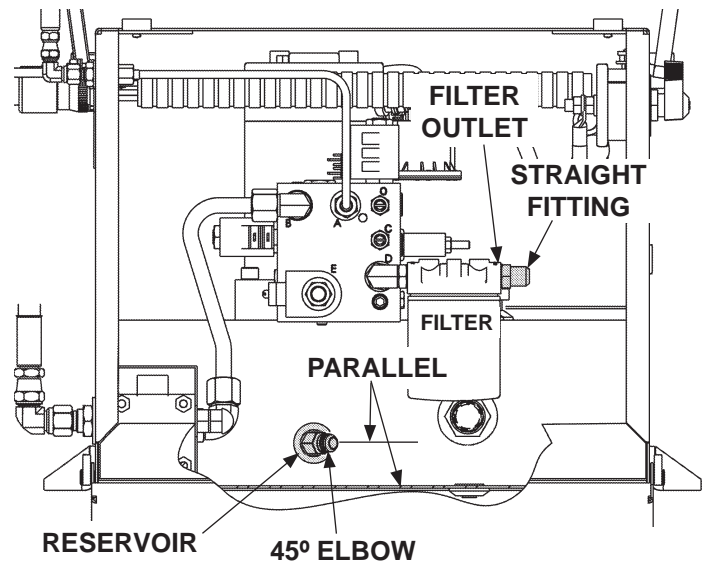
4. Disconnect hydraulic line from 90° elbow on the oil filter outlet **and** the 90° elbow on reservoir (**FIG. 2-2**). Next, remove the 90° elbow from reservoir (**FIG. 2-2**). Then, remove the 90° elbow from oil filter outlet (**FIG. 2-2**)



**REMOVING HYDRAULIC LINE & 90° ELBOWS  
(SINGLE HYDRAULIC PUMP SHOWN)  
FIG. 2-2**

5. Insert straight fitting (Kit item) in the oil filter outlet and tighten (**FIG. 3-1**). Next, thread the NPT end of the 45° elbow in the reservoir (**FIG. 3-1**). Tighten elbow in position horizontal to the floor of the pump box (**FIG. 3-1**).

**NOTE:** Keep both hose connectors loose until the new hose is routed and both ends are connected. Ensure the hose is not twisted, does not have sharp turns, and does not rub against the reservoir or any other parts.



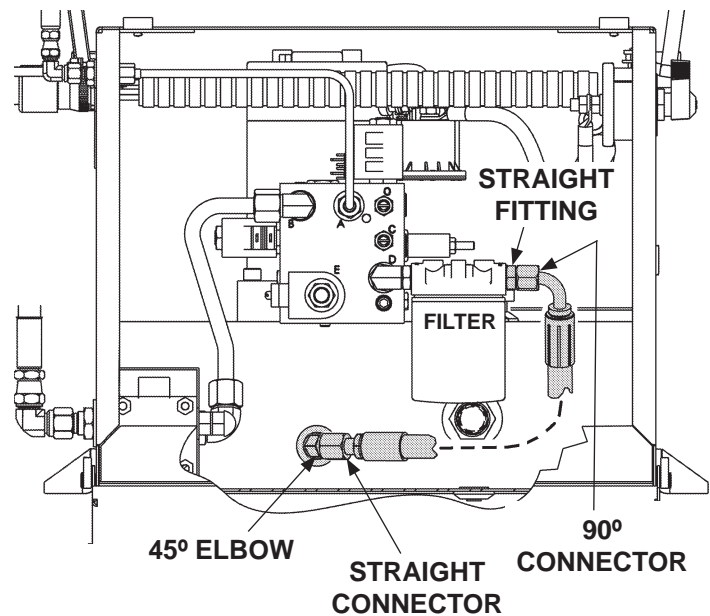
**INSTALLING NEW FITTINGS  
(SINGLE HYDRAULIC PUMP SHOWN)  
FIG. 3-1**

6. Connect straight end of new hose (Kit item) to 45° elbow (**FIG. 3-2**). Then, connect the 90° end of the hose to the straight fitting on the filter outlet (**FIG. 3-2**).

7. After hose is connected on both ends and routed correctly, tighten both hose connectors securely (**FIG. 3-2**).

8. Remove filler cap. Refill reservoir with oil from step 3. If oil is contaminated, change the oil according to the instructions in the **BMRA Maintenance Manual**. New oil is not provided with this kit.

9. Reconnect battery power to the hydraulic pumps by turning **ON** the master disconnect switch at the pump box. Refer to **BMRA Operation Manual** for detailed instructions.



**CONNECTING NEW HYDRAULIC HOSE  
(SINGLE HYDRAULIC PUMP SHOWN)  
FIG. 3-2**