



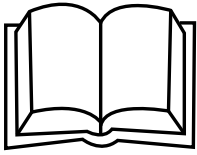
Bowl Assembly

Model Nos. JDI-20EV-B & JDI-20COMBO-B

Operator's Manual



Safety & Warning Instructions



READ THIS MANUAL CAREFULLY BEFORE INSTALLING, OPERATING OR SERVICING THIS EQUIPMENT

It is responsibility of the employer to place this information in the hands of the operator.
Keep for future reference.

SAFETY ALERTS USED IN THE MANUAL

	<p>Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury</p>
	<p>Indicates a potentially hazardous situation which, if not avoided, may result in death or serious injury.</p>
	<p>Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate personal injury It may also warn of unsafe practices</p>

OPERATING AND SAFETY PRECAUTIONS

DANGER

- Hot motor oil removed from an engine may exceed 220°F and cause severe burns or injuries if it comes in contact with skin or clothing.
- Allow oil temperature to reach 194°F or less before extracting.
- Always wear proper personal protection equipment. Use extreme care when handling hoses, probes, evacuating drain and shut off valves to prevent burns or injury.
- Motor oil and lubricants are flammable. Keep away from sparks and open flames as a fire will result

WARNING

- DO NOT** exceed 120 psi (8.0 bar) supply pressure when creating the vacuum.
- DO NOT** leave the bowl unattended while creating the vacuum.
- The handle must return to full up position and the valve closed before applying compressed air to the drain tank to begin the evacuation process. Failure to do so may result in pressurizing the bowl chamber which may cause the bowl to crack, leak, or explode.
- DO NOT** exceed 10 psi supply pressure when evacuating the drain.
- DO NOT** use if vacuum gauge is damaged. Replace immediately.

CAUTION

- Use care when rolling drain to prevent tipping or personal injury
- NEVER** exceed the **MAX** vacuum reading on the vacuum gauge.
- Monitor fluid level in bowl and on drain. **DO NOT** overfill.
- Closely monitor the flow out of the discharge flow to spills when evacuating oil from the drain tank.
- Inspect all hoses and probes before use for cracks, kinks, damage, or blisters. Replace damaged hoses and probes immediately.

Assembly

1. Place the bowl into the drain and tighten the collar to secure the bowl to the oil drain tank.
2. Replace the quick connect fitting to match the shop air system fittings as necessary.

Overview (FIG. 1)

Plunger:

The plunger is controlled by the black handle (A). Pull handle to release locking pin and move to one of three desired positions.

- **FULL UP:** To close bowl chamber and create vacuum.
- **CENTER:** To release vacuum.
- **FULL DOWN:** To empty oil from the bowl chamber to the tank.

Venturi Valve:

Connect to the ball valve (B) and adjust the valve to control the flow of air to the venturi.

Suction Hose Valve:

Use the ball valve (C) to control the flow into the bowl chamber while extracting fluid

Vacuum gage (D):

Indicates the amount of vacuum on the chamber bowl.

Note there is an internal safety check valve in the top of the bowl to prevent the buildup of air pressure inside the bowl should the plunger not completely seal when evacuating the oil drain tank.

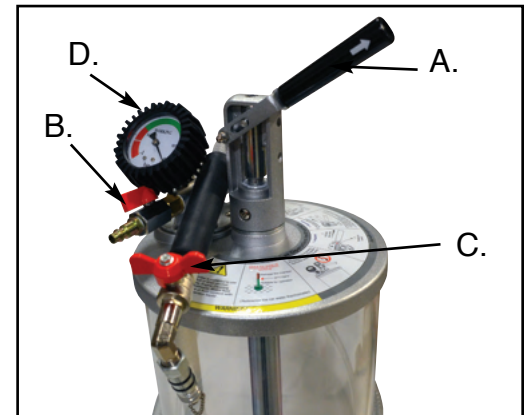


Fig. 1

Operation:

Step A: Create Vacuum

1. Set plunger (A) to the full up position.
2. Close the venturi valve (B) and suction hose valve (C)
3. Connect air supply of 100-120 psi (7-8 bar) to venturi quick connect fitting
4. Open venturi valve to create vacuum until the gauge needle is in the green zone.



Fig. 2

Step B: Extract Fluid

1. Close venturi valve (B)
2. Disconnect the air supply
3. Attach the appropriate probe to the end of the suction hose. (Fig. 2)
4. Insert the probe into the engine, gear box, or other item to be drained.
5. Open the suction hose valve (C) to control the extraction process.
6. Close valve when complete.



Fig. 3a

Step C: Drain Fluid Form the Bowl Chamber to the Oil Drain Tank

1. Move the handle (A) to the center position to release the vacuum (Fig. 3a).
2. Then move the handle (A) to the full down position to empty the oil from the bowl chamber to the tank. (Fig. 3b)

Step D: Evacuate the Oil Drain Tank

1. Move handle (A) to the full up position.
2. Refer to evacuating instructions provided with the oil drain tank



Fig. 3b

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