

Holmatro Rapid Intervention Set

Power Unit: PPU-15

Two-Tool Connection with Diverter Valve

2.5 hp 4-stroke gasoline engine (regular unleaded gasoline)

Fuel Capacity: 1250 cc (1.3 qt.)

Combination Tool: 3150UL

Straight Blade Cutter with Spreading/Squeezing

14" Spread, 16,166 lbs. spreading force, 67,600 lbs. cutting force

Mini Telescopic Ram: 3340

Two (2) - 20-ft. Twin Hose – Black Rubber, Red bend restrictor, 3 to 1 ration

Two (2) sets – Set A Step Chocks – Each set contains 2 Step chocks and 4 wedges

Hydraulic Concepts

The **Pressure Line** = Closed Hydraulics

1. Delivers pressure to the tools in a closed system.
2. Is controlled at the pump by the main valve.
3. Once ON provides a continuous pressure flow.
4. It operates in two stages:
The first stage for speed. (to 2200 PSI)
The second stage for power. (to 10,500 PSI)
5. Is indicated by the male coupler from the pump to the tools.
6. If disconnected while ON, an internal pressure relief valve opens to the pump tank.
7. To reconnect tools, turn off Main Valve.

The **Return Line** = Open Hydraulics

1. Returns non-pressurized fluid to the pump.
2. Is open or dumps into the tank.
3. Its unrestricted flow ensures quick movement of the driving piston in the tools.
4. It helps filter contaminants from the system.
5. It automatically resolves air in the system.
6. Is indicated by the male coupler from the tools to the pump.
7. If disconnected while the system is ON, a tool mounted pressure relief valve opens
 - Fluid discharges from the back of the tool.
 - It exits between the couplers or pigtails.

You must turn off the Main Valve.

You must reconnect the Return Line.
8. This safety Valve prevents dangerous hydraulic intensification and must be understood by the rescuer.

The PRD - Pressure Relief Device

Designed to relieve pressurized couplers, caused by temperature changes in fluid or leaving tools closed too tight.

Warnings!

- Only use on tools and hoses not connected to a pump.
- Never use on pumps
- Using on connected system can cause serious harm.

How to use it:

1. Turn knob counterclockwise until fully open.
2. Place over male coupler.
3. Face opening away from you.
4. Wrap with a rag if available.
5. Turn knob clockwise until small discharge of fluid.
6. If coupler is on tool, rotate control handle.
7. Remove and use coupler normally.

CUTTING

Round blades have a double hardened cutting edge and less hardened steel construction. That makes them durable and forgiving, **BUT NOT INDESTRUCTIBLE**.

Keep blades perpendicular to the surface you're cutting.

Overlapping blade tips will self-destruct.

When closing blades on material, ensure the tips are properly aligned.

Hardened bolts, pins and spring steel found in hinges can damage the blades.

Locate the seat belt bolt before cutting the roof or B-post.

Do not attempt to cut spring steel:

- Tie rods
- Leaf springs
- Hinge springs

Ensure blades do not separate. A sign that you're cutting something that you shouldn't cut.

More power and more stable cutting can be found closer to the notch.

Use rope or webbing to stabilize loose parts.

Become familiar with cutting techniques.

If you are not sure, don't try to cut it.

Consider using a straight blade cutter.

Consider ramming or spreading.