

Drain Water from Air System

You go to your M939-series truck to prepare for a mission. You crank it up

and wait for air pressure to build. The primary gauge maxes out, but the secondary gauge won't budge or only gives you 10 psi or so.

What's up? Chances are that moisture has corroded the spring inside the secondary relay valve so it won't let pressure build to rear brakes. You're stuck until the relay valve is replaced.

Primary gauge OK but...

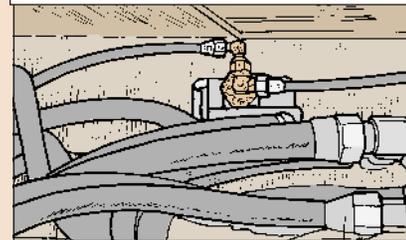
...secondary not OK?

HMMM, I'VE GOT PRIMARY PRESSURE, BUT THE SECONDARY GAUGE HASN'T MOVED. WHAT'S UP?

CORROSION HAS JAMMED UP THE SPRING ON MY SECONDARY RELAY VALVE. YOU NEVER DRAINED MY AIR TANKS!

Air System

Check secondary relay valve for corrosion

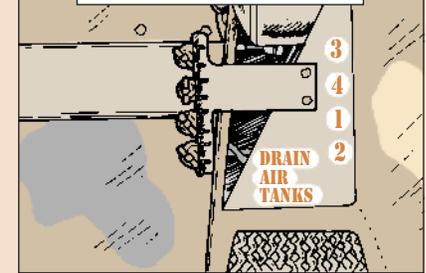


You can stop that show-stopper by draining the air tanks at the end of each day. Here's the right way to drain M939 air lines:

- 1 Always drain all four tanks. There's more water in the wet tank for sure, but all tanks hold moisture.
- 2 Drain tanks in the order called for on Page 2-67 of TM 9-2320-272-10 (Aug 96).

To make the draining order easy to remember, get your mechanic to stencil numbers on the truck near the valves. Use CARC paint, NSN

Stencil numbers near valves



8010-01-229-7540, and the 1-in stencils from the No. 1 Common shop set.

- 3 Open each petcock, one at a time, until the air pressure is gone.
- 4 Close all the petcocks after you've drained the tanks. Leaving them open doesn't get rid of water—it creates more. That's because cool nights and warm days build condensation inside the tanks. When you close the tanks just before you operate, the water is trapped inside, ready to clog air lines and jam relay valves.

Lube Brake Camshafts

Operators, grease fittings on the M172A1 lowbed semitrailer's brake camshaft rods get skipped at lube time because they're hard to find.

But without lube, the camshaft rods seize up. The rods have to slide and rotate inside their nylon bushings and bearings. If they can't, the brakes lock up. That can cause an accident.

Keep the brake camshaft rods lubed. The fittings are behind the inner tires of each axle.

Give fitting 4 to 5 shots of grease

