

CHRYSLER A500SE(42RE) NO UPSHIFT AFTER REBUILD

COMPLAINT: After rebuild, the transmission will not upshift out of first gear. Governor pressure is checked with a gauge and 0 psi is seen at all times, even when the solenoid harness is unplugged.

CAUSE: One cause may be that during overhaul, it is not uncommon to find the overdrive piston support worn excessively where the low reverse drum rides (See Figure 1). When the support was replaced, one was used from an A500/518 transmission. This allows all governor oil to be exhausted as the A500/518 support has feed and return governor holes for the governor tubes to fit into where as the 42RE does not use tubes since governor pressure is solenoid controlled off the valve body (See Figure 2). The support found on the 42RE does not have these holes which blocks any governor oil from escaping to an exhaust (See Figure 3).

CORRECTION: Replace the support with one from a 42RE transmission. In some cases, the overdrive extension housing can be removed from the transmission without removing the whole transmission from the vehicle. If this is available, remove the overdrive section and carefully drill an tap and plug the two holes in the support with pipe plugs as shown in Figure 4.

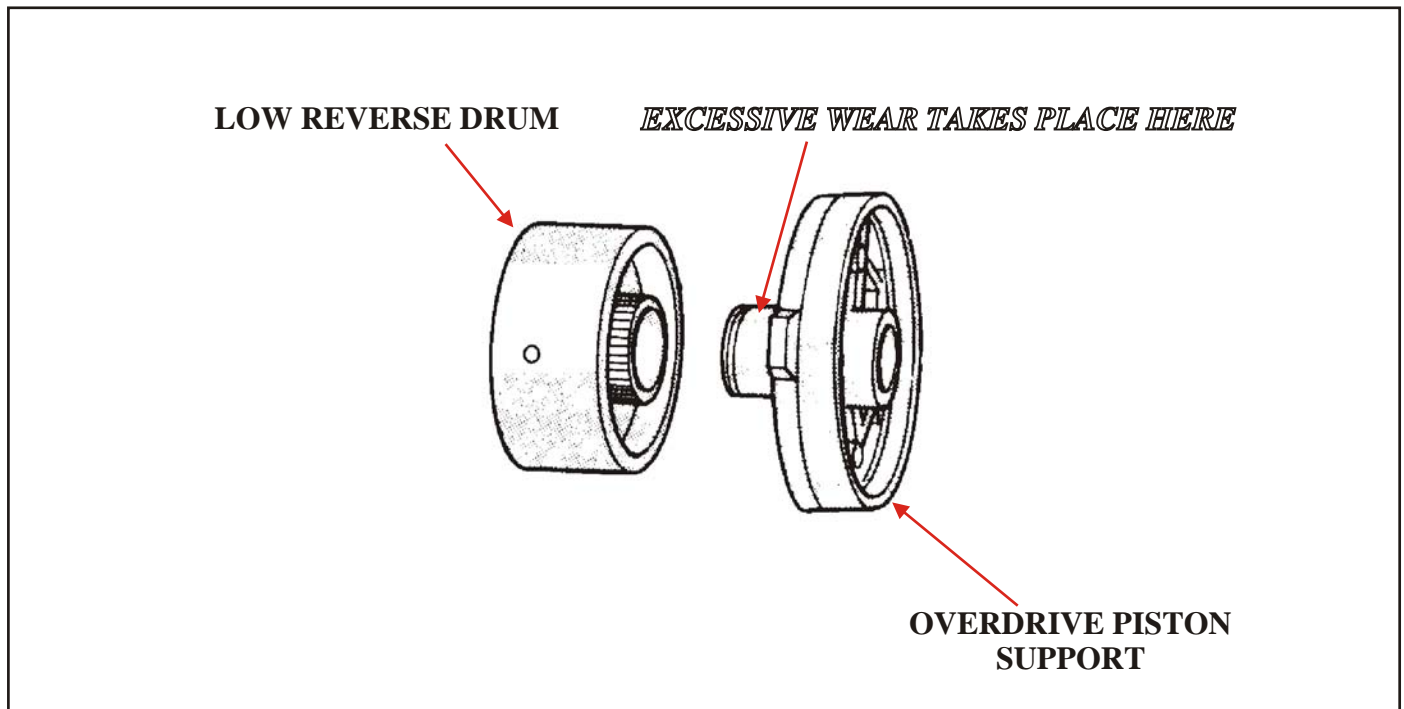
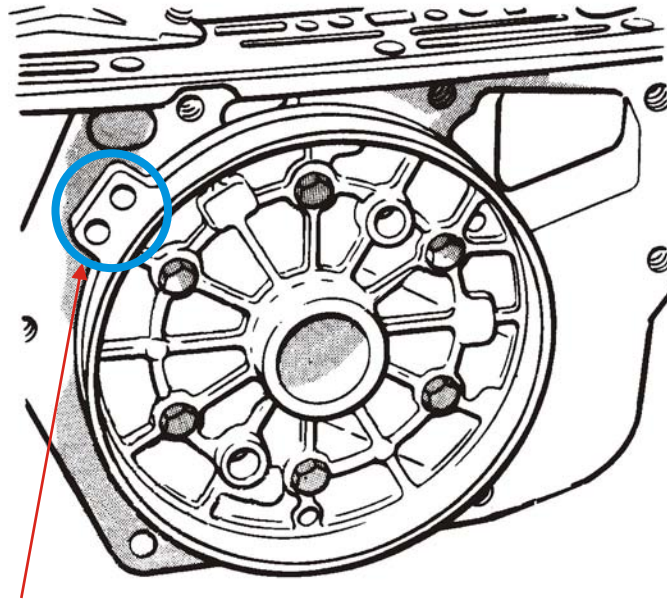
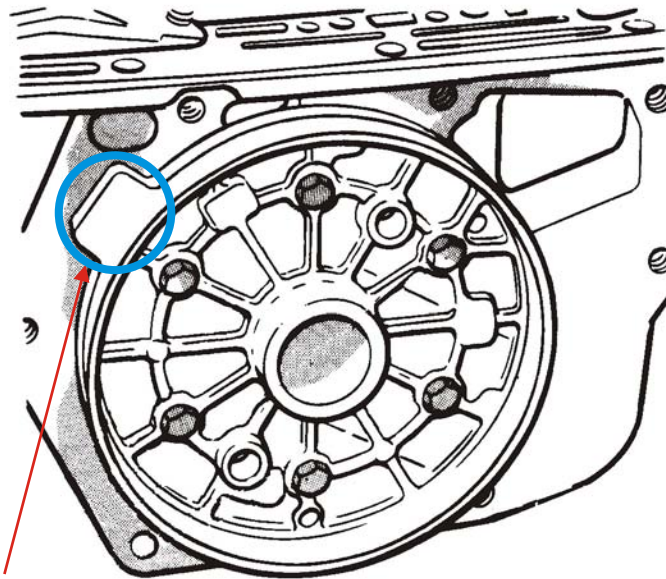


Figure 1



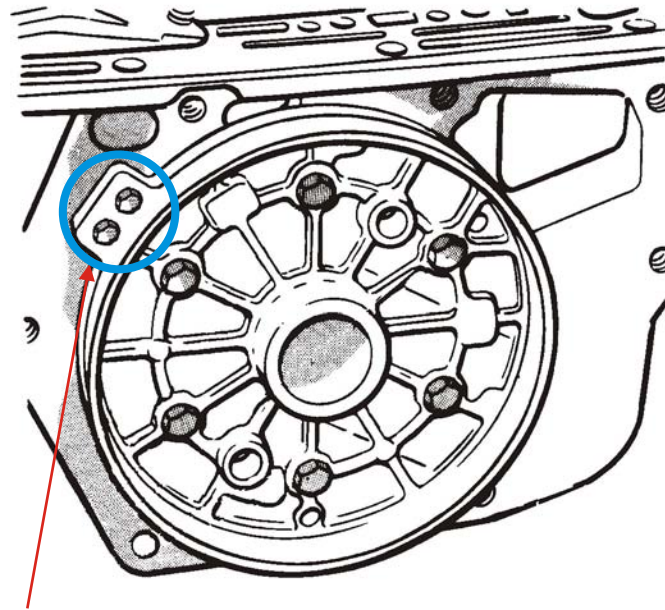
***GOVERNOR FEED AND RETURN
PIPE HOLES USED IN A500/518
MODEL TRANSMISSIONS ONLY***

Figure 2



***NO HOLES IN SUPPORT WITH
THE 42RE & 46RE TRANSMISSIONS***

Figure 3



*TAP AND INSTALL PIPE
PLUGS TO STOP PRESSURE LOSS*

Figure 4