FORD AODE/4R70W
CASE INTERCHANGEABILITY

COMPLAINT: The area of concern for this complaint is the manual lever linkage bore area and the mounting of the Manual Lever Position Sensor (MLPS) onto the case, ***and this area of concern applies to both 2 bolt and 3 bolt starter cases.***

After the transmission has been rebuilt, one of the last things to be done is the mounting of the MLPS. At this time the builder, or possibly the R&R technician, realizes the MLPS does not fit properly. The MLPS, as a result of this may not range correctly.

CAUSE: The AODE cases are different in thickness when measuring from the manual lever seal surface to the countersink in the manual lever retaining pin hole.

PARTS AFFECTED:

(1) TRANSMISSION CASE - The dimension from the manual lever seal surface to the countersink in the manual lever retaining pin hole changed between the Early and Late cases and the identification is as follows:

Early Case - The early case has None or One threaded boss on the lower left side of the case, as shown in Figure 1, and the measurement from the manual lever seal surface to the countersink in the manual lever retaining pin hole is approximately .844", which is also shown in Figure 1.

Late Case - The late case has Two threaded bosses on the lower left side of the case, as shown in Figure 2, and the measurement from the manual lever seal surface to the countersink in the manual lever retaining pin hole is approximately .701", which is also shown in Figure 2.

Note: DO NOT use the rough forging (RF) numbers on the case to identify the early case from the late case, as this is unreliable.

(2) MANUAL SHIFT LEVER - Also is a different dimension to accommodate the change in the transmission case and can be identified as follows:

Early Manual Shift Lever - Measure from the back flange of shift lever to the first edge of the groove for the retaining pin, as shown in Figure 1. Early lever will measure approximately .922".

Late Manual Shift Lever - Measure from the back flange of shift lever to the first edge of the groove for the retaining pin, as shown in Figure 2. The Late lever will measure approximately .753".

(3) MANUAL LEVER POSITION SENSOR - Has two different heights of torque limiters.
Early MLPS - Has the ***short*** torque limiters, as ahown in Figure 1.
Late MLPS - Has the ***tall*** torque limiters, as shown in Figure 2.

CORRECTION: It is ***mandatory*** that the proper parts be installed into the proper case, ***as the parts listed above are not interchangeable***. Refer to Figure 1 for the early parts and to Figure 2 for the late parts.

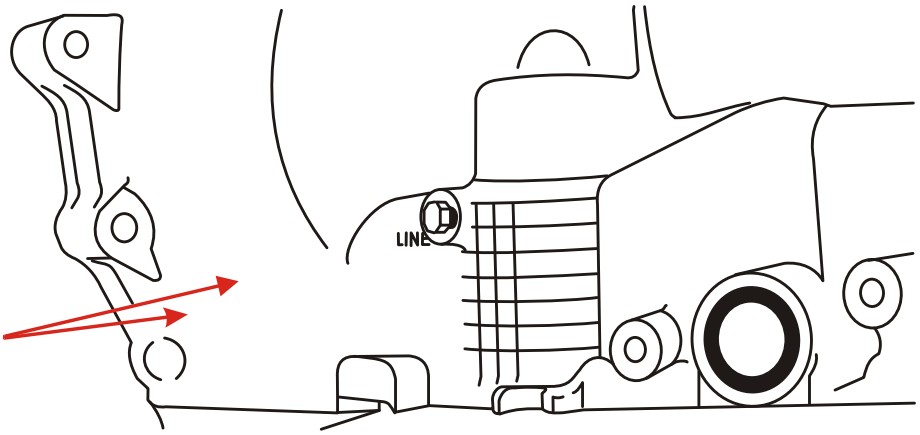
NOTE:

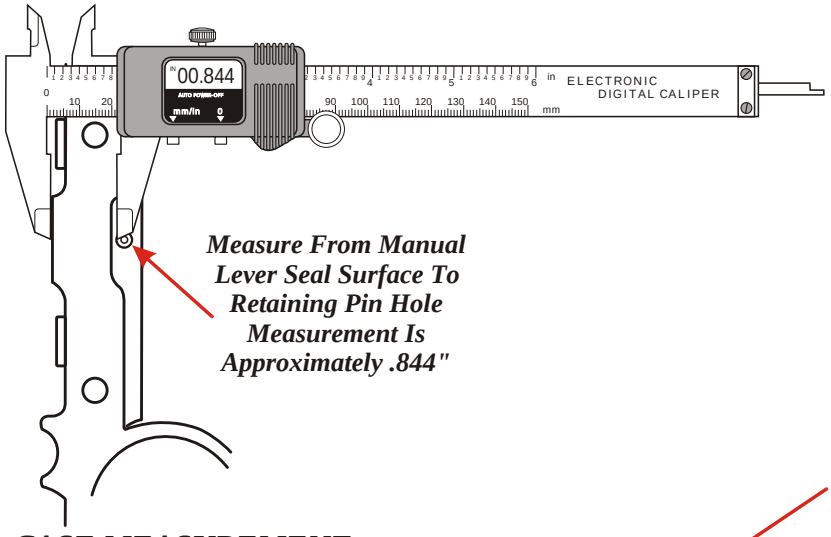
EARLY DESIGN

MANY THANKS TO

HARDPARTS FOR TRANSMISSIONS

NONE OR ONE DRILLED AND TAPPED BOSSES IN THIS AREA



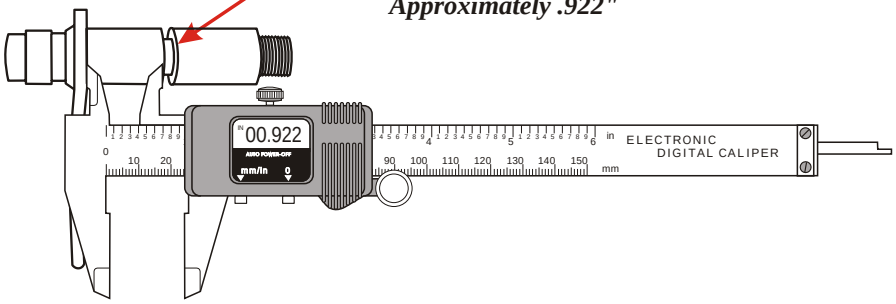


Measure From Manual Lever Seal Surface To Retaining Pin Hole Measurement Is Approximately .844"

CASE MEASUREMENT

MANUAL LEVER MEASUREMENT

Measure From Manual Lever Surface To Retaining Pin Groove Measurement Is Approximately .922"



MLPS HAS SHORT TORQUE LIMITERS

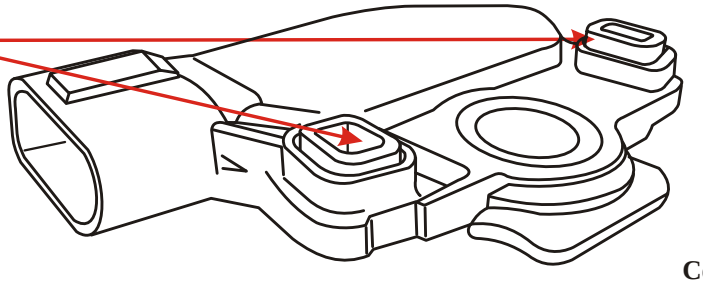
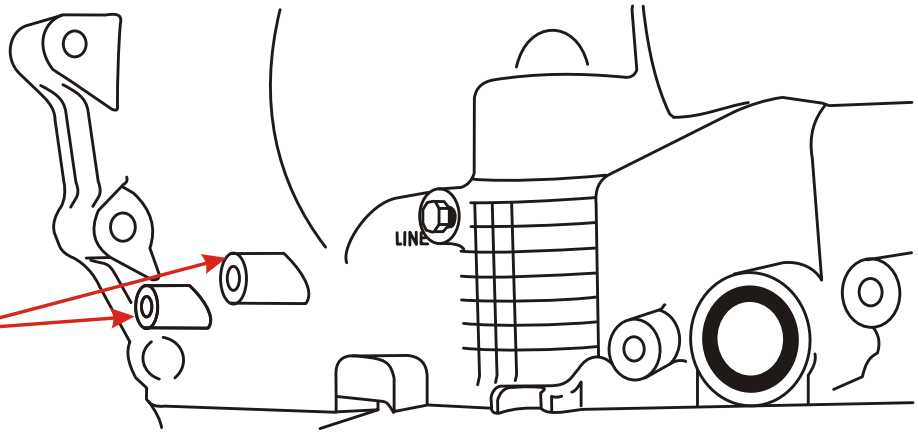


Figure 1

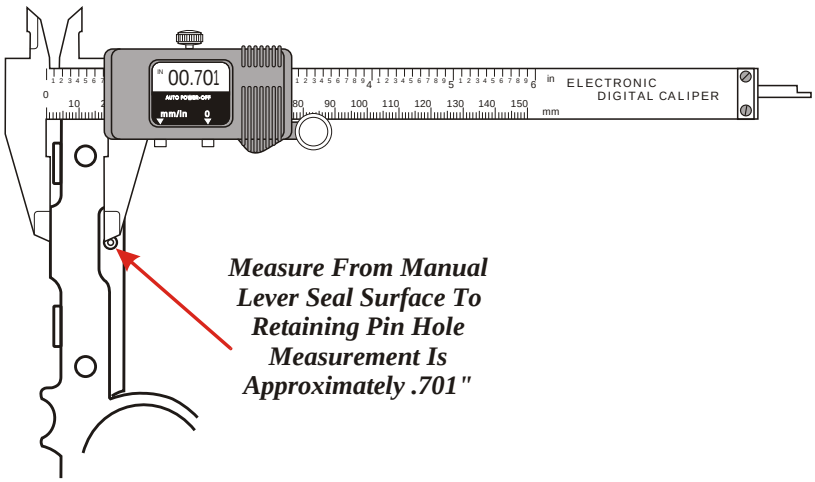
MANY THANKS TO

HARDPARTS FOR TRANSMISSIONS

LATE DESIGN



TWO DRILLED AND TAPPED BOSSES IN THIS AREA

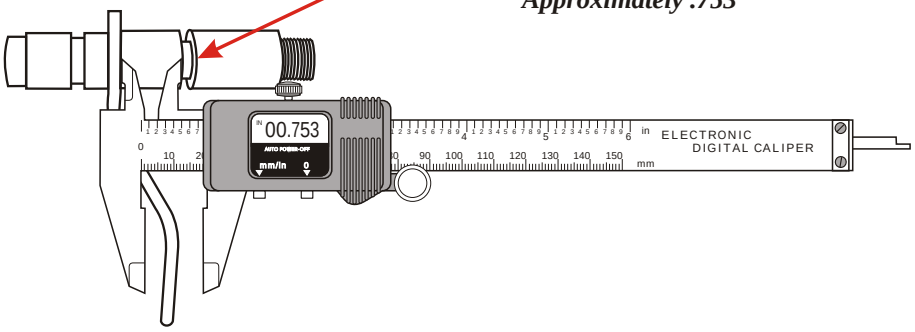


Measure From Manual Lever Seal Surface To Retaining Pin Hole Measurement Is Approximately .701"

CASE MEASUREMENT

MANUAL LEVER MEASUREMENT

Measure From Manual Lever Surface To Retaining Pin Groove Measurement Is Approximately .753"



MLPS HAS TALL TORQUE LIMITERS

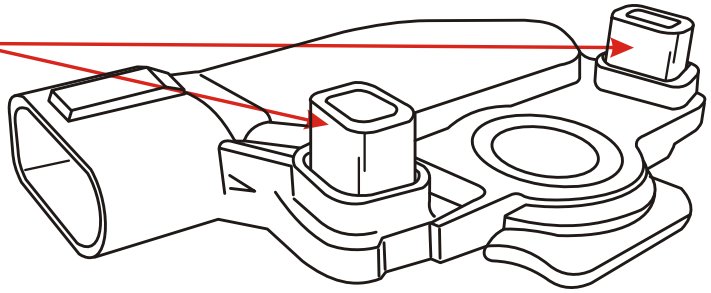


Figure 2