

Shifter Mechanism

1. Place transmission gears in neutral and install the shifter yoke lock balls and springs in the side of the transmission case.
2. Install the shifter yokes, placing the first and reverse yoke over the first and reverse sliding gear, and the second and high yoke over the ring on the clutch sleeve.
3. Install the shifter shafts from the front of the case, (fig. 17), the longer of the two being the first and reverse shaft. Line up the lock holes in the shafts with the two front cover capscrew holes in the top of the case.

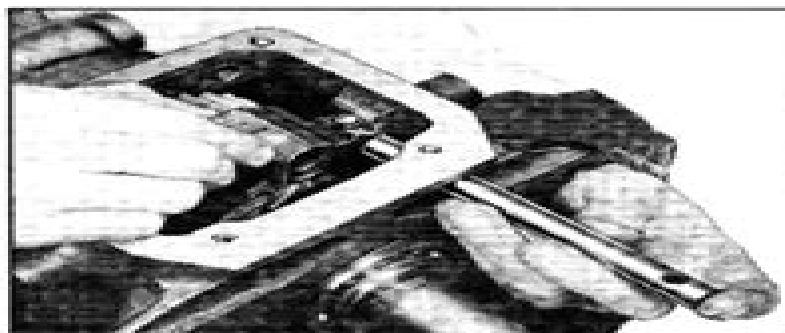


Fig. 17—Installing Shifter Shafts

4. Lay the shifter interlock in slots in the shifter yokes with the pins upward. The interlock shifter lies in the slots so that the hole is closer to the second and high speed shifter shaft.
5. Assemble the transmission cover and gasket to the case using the two special capscrews at the front.
6. Check the operation of the transmission by shifting into all gears and making sure there is no bind in any position.
7. Fill the transmission with $1\frac{1}{2}$ pints of transmission lubricant.

UNIVERSAL JOINT BALL ADJUSTMENT

Due to construction of the universal ball joint on the $\frac{1}{2}$ and $\frac{3}{4}$ ton trucks it is important that proper adjustment be made at this point.

This type joint if improperly adjusted may result in oil leakage if too loose or a complaint of transmission noise if too tight. Therefore, whenever this joint is broken its adjustment must be checked when reassembling. Proceed as follows.

1. On $\frac{1}{2}$ ton models remove universal joint ball from torque tube. On $\frac{3}{4}$ ton models the front propeller shaft and housing are an assembled unit when removed from vehicle.

This assembly as removed from vehicle may be used for checking purposes as it does not necessitate further disassembly.

2. Wash the ball thoroughly in cleaning solvent, then inspect it for roughness; if rough smooth up with fine emery paper.

NOTE: On $\frac{1}{2}$ ton models make sure the end of the torque tube is thoroughly cleaned.

3. Install new universal joint ball collar seal on the $\frac{1}{2}$ and $\frac{3}{4}$ ton models and a new torque ball packing on the $\frac{1}{2}$ ton model.
4. Using 4 new torque ball retainer shims as a starting point, assemble universal joint ball or housing (on the $\frac{3}{4}$ ton models) to back of transmission and secure assembly to transmission case with 4 attaching cap screws.
5. With cap screws tightened, place both hands on torque ball (fig. 18) or housing (on $\frac{3}{4}$ ton models) and if torque ball or housing can be moved and is a snug fit the torque ball or housing is properly adjusted.

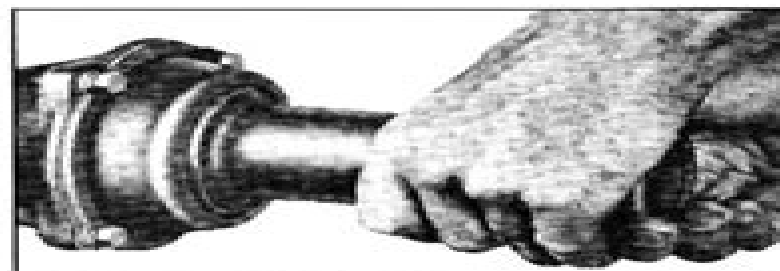


Fig. 18—Checking Ball Adjustment

NOTE: If the ball joint or housing can not be moved by hand or is too loose, remove the 4 cap screws from universal joint ball retainer and remove shims to tighten or add shims to loosen until the proper adjustment is secured.

INSTALLATION

1. Install transmission through opening in floor.
2. Place the transmission on guide pins and start mainshaft in clutch disc and slide forward making sure the step at the end of the countershaft is flush with the face of the transmission and engages properly with the clutch housing. This keeps the shaft from turning as well as helps align transmission properly.
3. Install the two lower transmission mounting bolts as well as removing the two upper guide pins and installing the top mounting bolts.

Auto Shop Manual

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