

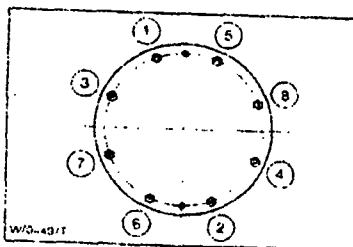
16 724 4 MANUAL TRANSMISSION AND CLUTCH

9 Place the clutch disc in position on the flywheel with the shortest spigot of the splined hub towards the flywheel, using clutch disc alignment tool (No C7088).

10 Place the pressure plate in position ensuring that the dowels in the flywheel are aligned with the dowel holes in the clutch pressure plate cover.

11 Fit the retaining bolts together with new lockwashers and screw them in until they are all just lightly clamping the pressure plate.

12 Screw in each bolt one turn at a time in the sequence shown (see illustration) to carefully and evenly pull the pressure plate up to the flywheel and load the pressure plate springs. Ensure that the dowels engage correctly with the dowel holes. Finally tighten the bolts in a clockwise sequence to the specified torque (see Specifications).



Clutch Cover to Flywheel Bolt Tightening Sequence.

13 Remove the disc alignment tool.

16 784 4 CLUTCH HOUSING - REMOVE AND INSTALL (Transmission Removed)

To Remove

1 Unscrew and remove the two bolts securing each trunnion in the slave cylinder mounting bracket on the clutch housing. Withdraw the two trunnions and remove the slave cylinder and the two side packing washers from the clutch housing. Swing the slave cylinder aside and support it to prevent damage to the hydraulic fluid and air lines.

2 Place a suitable jack under the rear portion of the sump and support the engine.

3 Slide the clutch release bearing and hub assembly off the fingers of the release arm fork and withdraw the bearing and hub assembly via the transmission main drive shaft aperture in the clutch housing.

4 Remove the self-locking nut and the centre bolt from the engine right-hand rear mounting.

5 Remove the four bolts securing the engine right-hand rear mounting bracket to the clutch housing and withdraw the bracket.

6 Remove the four bolts securing the engine left-hand rear mounting bracket to the clutch housing.

7 Remove the fifteen bolts securing the clutch housing to the engine. Move aside any cables or pipes that were connected to the housing. Pull the housing off the engine mounting dowels and remove the housing from the vehicle.

8 Remove all the asbestos clutch lining dust from the clutch housing.

WARNING: Asbestos dust is injurious to health and must not be inhaled. Do not blow the dust off with an air line. Use a suitable vacuum cleaner. If a vacuum cleaner is not available, use personal protective breathing equipment or a suitable face mask and remove the dust carefully with a brush or rag. Collect the dust in a sealable plastic bag or envelope for disposal.

9 Remove the clutch release arm rubber gaiter from the clutch housing aperture and pull it off the release arm.

10 Pull the clutch release arm to disengage it from the trunnion pivot ball and remove the arm from the housing.

11 Remove the release arm pivot trunnion ball from the clutch housing.

12 Thoroughly clean all component parts. Discard the old rubber gaiter, self locking nuts and all lockwashers.

13 Inspect all parts for excessive wear or damage. Renew all serviceable parts.

To Install

14 Screw the release arm pivot trunnion ball into its location inside the clutch housing together with a new lockwasher and tighten to the specified torque (see Specifications).

MANUAL TRANSMISSION AND CLUTCH 16 784 4

Place a smear of grease on both the pivot ball and in the ball socket in the release arm. Lift the retaining spring clip with a screwdriver and slide the arm over the ball until the ball is entered securely in the socket and the retaining spring clip.

15 Pull a new release arm rubber gaiter over the arm and position the gaiter groove on the rim of the clutch housing aperture.

17 Pack the internal recess of the clutch release bearing hub with high melting point grease (see Specifications) and pass it over the transmission main drive gear bearing retainer tube to scrape off surplus grease. Place a light smear of high melting point grease on the clutch release arm fork thrust pads and on the release bearing hub thrust pads. Remove all surplus grease from the exterior of the release bearing and hub assembly.

CAUTION: Any excess grease on the release bearing may be thrown off by the rotation of the bearing and contaminate the clutch disc friction linings.

18 Place the clutch housing into position. Align the two dowels in the clutch housing with the corresponding holes in the flywheel housing and push the housing home.

Screw in the fifteen retaining bolts, together with new lockwashers, ensuring that the clips supporting any cables or pipes are placed over the appropriate bolts. Tighten the bolts to the specified torque (see Specifications).

19 Align the bolt holes and screw in the four bolts securing the engine left-hand rear mounting bracket to the clutch housing together with new lockwashers and tighten to the specified torque (see Specifications).

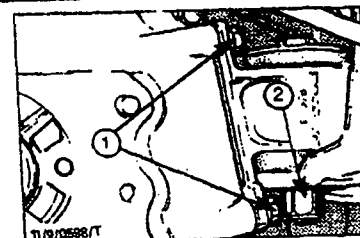
20 Place the engine right-hand rear mounting bracket in position.

Enter the centre bolt and screw on the self locking nut three or four threads.

21 Align the bolt holes, screw in the four bolts securing the bracket to the clutch housing together with new lockwashers and tighten to the specified torque (see Specifications). Tighten the centre bolt and nut to the specified torque (see Specifications).

22 Remove the jack from beneath the engine.

23 Replace the clutch release bearing and hub assembly on the release arm fork via the transmission main drive shaft aperture.

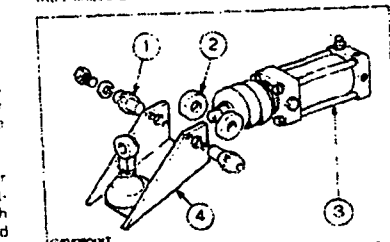


Engine Rear Mounting Bracket

1. Rear mounting bracket
2. Rear mounting engine hole

24 Lightly grease the trunnion bushes in the slave cylinder, the push rod end where it bears on the release arm and the two side spacer washers.

25 Place the slave cylinder in position on the clutch housing ensuring that the push rod has engaged correctly with the recess in the end of the release arm.



Air Assisted Slave Cylinder Mounting Assembly

1. Trunnion
2. Packing washer
3. Air assisted slave cylinder
4. Clutch housing bracket

26 Place the two side spacer washers in position between the air cylinder and the trunnion mounting brackets.

27 Align the holes in the trunnion mounting brackets, the spacer washers and the trunnion recess bushes in the air cylinder and insert the trunnions. Screw in the four trunnion retaining bolts with new lockwashers and tighten to the specified torque (see Specifications).