1971-72 LAND ROVER SERIES III

Land Rover, Gasoline (1971-72)
Land Rover, Diesel (1971-72)

DESCRIPTION

Clutch is a dry, single disc, diaphragm spring type. Clutch is hydraulically engaged or disengaged.

REMOVAL & INSTALLATION

CLUTCH ASSEMBLY

1) Remove floor and seat base. Drain transmission oil and disconnect drive shaft from transmission. Disconnect front drive shaft at transfer case.

NOTE — If any other power driven accessories are connected to transmission, remove or disconnect at this time.

2) Disconnect parking brake rod from lever. Remove lever and cross shaft. Disconnect speedometer cable at transmission.

3) On certain models, exhaust pipe is located above transmission and must be moved to remove transmission. Disconnect ground strap from transmission (if equipped).

4) Remove both rear transmission mounts. Disconnect tie-rod between transmission and chassis (if equipped). Remove slave cylinder from flywheel housing.

5) Raise rear of engine high enough to insert a one inch thick block of wood between bell housing and chassis. Attach a suitable lifting strap to transmission.

6) Remove bolts securing bell housing to engine and pull transmission to rear far enough to gain access to clutch assembly.

7) Mark position of clutch assembly on flywheel and remove clutch assembly. To install, remove removal procedure. Use a suitable pilot shaft (605022) to align disc.

CLUTCH MASTER CYLINDER

1) Remove hood and disconnect line to slave cylinder. Disconnect clutch pedal return spring.

2) Remove pedal bracket retaining bolts, accessible from inside drivers compartment and remove pedal assembly with master cylinder.

3) Remove top cover and gasket from pedal bracket. Disconnect master cylinder push rod and remove master cylinder.

CLUTCH SLAVE CYLINDER

1) Drain hydraulic system. Disconnect bleeder pipe and line from master cylinder. Remove slave cylinder.

2) To install, reverse removal procedure. Bleed hydraulic system. *See Hydraulic System Bleeding.*

CLUTCH RELEASE BEARING

With transmission removed as previously outlined, remove release bearing retaining clip and remove bearing and sleeve. To install, reverse removal procedure. Lubricate inner diameter of bearing sleeve before installing.

CLUTCH PILOT BUSHING

1) Pilot bushing is press fit in flywheel. If excessive clearance between bushing and transmission input shaft is detected, bushing must be replaced.

2) Drive out old bearing and install new one, making sure bushing is flush with clutch side of flywheel. Ream bushing to .8755-.8757" and reinstall flywheel.

OVERHAUL

CLUTCH MASTER CYLINDER

1) With master cylinder removed, remove snap ring, stop washer and push rod. Withdraw piston assembly. Pry up lock ring and separate piston from spring.

2) Remove cup from piston and seal from valve assembly. Clean all components in clean brake fluid.

3) Inspect piston and bore in master clyinder for wear or scoring. Replace any components as necessary. Seals must be replaced.

4) Coat all seals with Castrol-Girling rubber grease and remaining components with brake fluid. To assemble, reverse disassembly procedure.

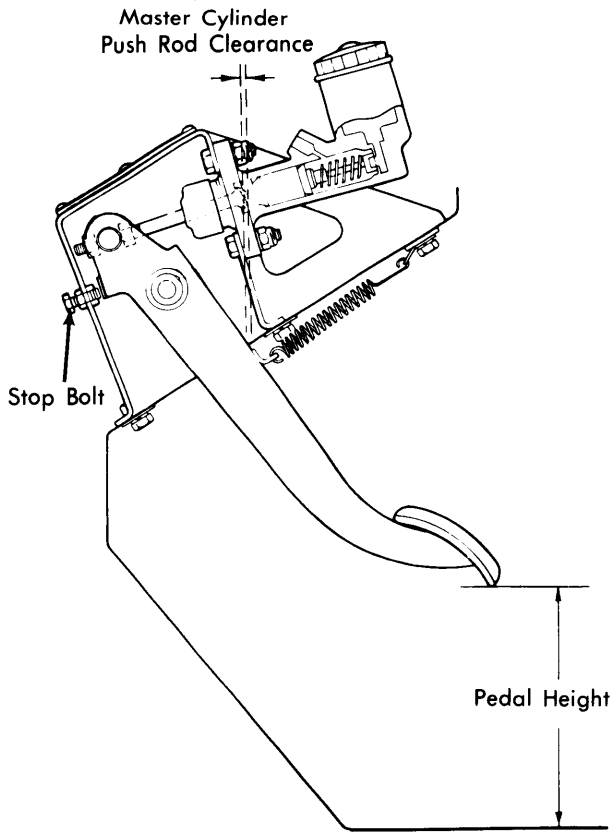
CLUTCH SLAVE CYLINDER

1) With slave cylinder removed, remove dust cover and withdraw piston and spring. Clean all components in clean brake fluid.

4) To install, reverse removal procedure. Bleed hydraulic system. *See Hydraulic System Bleeding.* Adjust pedal height and master cylinder push rod. *See Pedal Height Adjustment and Master Cylinder Push Rod Freeplay.*

2) Inspect piston and bore in cylinder for wear or scoring. Seal must be replaced. Coat seal with Castrol-Girling rubber grease and remaining components with brake fluid. To assemble, reverse disassembly procedure.

1971-72 LAND ROVER SERIES III (Cont.)



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PEDAL HEIGHT MEASURING POINT

ADJUSTMENT

PEDAL HEIGHT

Adjust clutch pedal stop bolt until distance from floor to bottom of pedal pad (see illustration) is 5.5". Tighten stop bolt lock nut.

MASTER CYLINDER PUSH ROD FREEPLAY

Adjust master cylinder push rod until there is approximately .062" of clearance between push rod and piston. Tighten both lock nuts. There should now be .250" of pedal freeplay before pressure is felt. If necessary, readjust master cylinder push rod.

HYDRAULIC SYSTEM BLEEDING

1) Check fluid level in reservoir and fill as necessary. Attach a rubber hose to bleeder plug and insert other end in a container half full of fluid.

2) Loosen bleeder plug and pump clutch pedal, stopping at end of each stroke until all air is out of tube. Release pedal and continue operation until air bubbles are no longer seen in container.

3) Tighten bleeder plug when pedal is at bottom of stroke. Remove rubber tube and recheck fluid level.

TIGHTENING SPECIFICATIONS

Application	Ft. Lbs.
Clutch-to-Flywheel Bolts	22-25