

# Clutches

## CLUTCH TROUBLE SHOOTING

CONDITION	POSSIBLE CAUSE	CORRECTION
<b>Chattering or Grabbing</b>	Incorrect lever adjustment Oil, grease or glaze on facings Loose "U" joint flange Worn input shaft spline Binding pressure plate Binding release lever Binding disc hub Unequal pressure plate contact Loose/bent clutch disc Incorrect transmission alignment Worn pressure plate, disc or flywheel Broken or weak pressure springs Sticking clutch pedal Incorrect disc facing Engine loose in chassis	See adjustment in CLUTCHES Disassemble and clean or replace See DRIVE AXLES & TRANSFER CASES See CLUTCHES See CLUTCHES See CLUTCHES See Removal in CLUTCHES Replace worn/misaligned components See Removal & Installation in CLUTCHES See Removal in MANUAL TRANSMISSION See Removal & Installation in CLUTCHES Replace pressure plate See General Servicing in CLUTCHES Replace and match components Tighten all mounting bolts
<b>Spinning</b>	Dry or worn bushings Misaligned clutch housing Bent or distorted clutch disc Excessive pedal free play	Lubricate and replace worn parts See Removal in MANUAL TRANSMISSION Replace and match components See Adjustment in CLUTCHES
<b>Dragging</b>	Oil or grease on facings Incorrect lever or pedal adjustment Dust or dirt on clutch Worn or broken facings Bent clutch disc or pressure plate Clutch disc hub binding on shaft Binding pilot bushing Sticking release bearing sleeve	Clean and replace if necessary See Adjustment in CLUTCHES See General Servicing in CLUTCHES Replace worn/damaged components Replace and match components See General Servicing in CLUTCHES See General Servicing in CLUTCHES See CLUTCHES
<b>Rattling</b>	Weak or broken release lever spring Damaged pressure plate Broken clutch return spring Worn splines on disc or input shaft Worn clutch release bearing Dry or worn pilot bushing Unequal release lever contact Incorrect pedal free play Warped clutch disc	Replace spring and check alignment Replace and match components Replace spring Replace disc and/or input shaft Replace spring and check alignment Lubricate or replace bushing Align or replace lever See Adjustment in CLUTCHES Replace and match components
<b>Slipping</b>	Pressure springs worn or broken Oily, greasy or worn clutch facings, Incorrect clutch alignment Warped clutch disc or pressure plate Binding release levers or clutch pedal	Replace damaged components Clean or replace components See CLUTCHES Replace and match damaged components See General Servicing in CLUTCHES
<b>Squeaking</b>	Worn or damaged release bearing Dry or worn pilot/release bearing Pilot bearing turning in crankshaft Worn input shaft bearing Incorrect transmission alignment Dry clutch fork between pivot	Replace worn/damaged parts Lubricate or replace if necessary See Removal in CLUTCHES Replace bearing and seal See Removal in MANUAL TRANSMISSION See General Servicing in CLUTCHES
<b>Heavy and/or Stiff Pedal</b>	Sticking release bearing sleeve Dry or binding pedal hub Floor mat interference with pedal Dry or binding ball/fork pivots	See General Servicing in CLUTCHES Lubricate and align components Lay mat flat in proper area Lubricate and align components
<b>Grinding</b>	Dry release bearing Dry or worn pilot bearing Worn input shaft bearing	See General Servicing in CLUTCHES Lubricate or replace bearing Replace bearing
<b>Whirring</b>	Incorrect pedal free play Incorrect transmission alignment	See Adjustment in CLUTCHES See Removal in MANUAL TRANSMISSION