



## CLUTCH DIAGNOSIS

### Condition(s):

- Chirp or Squeak When Pedal is Up

#### Possible Source(s):

- Insufficient preload on release bearing.

#### Action(s) to Take:

- Service or replace linkage parts (pedal assembly).

#### Possible Source(s):

- Hydraulic control malfunctioning.

#### Action(s) to Take:

- Tighten pressure plate mounting bolts. Refer to «Section 08-01».
- Service or replace parts as required. Refer to «Section 08-02».

- Clutch Chatters During Engagement

#### Possible Source(s):

- Loose engine mounts and No. 3 crossmember mounting.

#### Action(s) to Take:

- Service as required. Tighten bolts and nuts. Refer to «Section 02-03».

#### Possible Source(s):

- Oil on clutch disc. Burned or glazed.

#### Action(s) to Take:

- Correct leak and install new clutch. Refer to «Section 08-01».

- Clutch is Noisy When Pedal is Depressed, Noise Continues as Long as the Pedal is Held Down

#### Possible Source(s):

- Damaged release bearing.

#### Action(s) to Take:

- Remove transmission and replace release bearing. Inspect the release fingers and replace the pressure plate assembly as required.

- Clutch Does Not Disengage Properly

#### Possible Source(s):

- Hydraulic control malfunctioning.

#### Action(s) to Take:

- Service or replace parts as required. Refer to «Section 08-02».

#### Possible Source(s):

- Damaged internal components.

#### Action(s) to Take:

- Remove transmission. Verify torque of pressure plate bolts.

**Possible Source(s):**

- Loose clutch pressure plate bolts.

**Action(s) to Take:**

- Tighten bolts to 39 N-m (29 Lb-Ft), if required.
- Check for damaged or worn clutch, pressure plate or release bearing.
- Check for warped or contaminated clutch disc.
- Check engine crankshaft pilot bearing for lack of lubrication, damage or binding condition with input shaft.
- Check clutch disc hub spline for free movement on input shaft spline. Service or replace as required.

□ Vehicle Will Not Start With Clutch Pedal Fully Depressed

**Possible Source(s):**

- Improper adjustment of interlock switch, damaged switch, or open or shortcircuited wiring.

**Action(s) to Take:**

- Refer to «[Section 08-02](#)» for diagnosis and service.

□ Clutch Slips After the Pedal is Fully Released

**Possible Source(s):**

- Hydraulic controls binding.

**Action(s) to Take:**

- Service or replace linkage parts as required. Refer to «[Section 08-02](#)».

**Possible Source(s):**

- Damaged internal components.

**Action(s) to Take:**

- Remove transmission. Service or replace hydraulic slave cylinder release bearing. Check pressure plate and clutch disc for wear and contamination. Replace as required

□ Clutch "Squeaks" or "Scrubs" When the Pedal is in Motion

**Possible Source(s):**

- Lack of lubrication release bearing contact.

**Action(s) to Take:**

- Remove transmission and release bearing. Lubricate accordingly.

**Possible Source(s):**

- Transmission housing out of alignment.

**Action(s) to Take:**

- Ensure that transmission housing is properly positioned on dowels, and retaining bolts are properly tightened. Reposition housing on dowels or replace housing if necessary.

□ Noise When Depressing Clutch Pedal

**Possible Source(s):**

- Clutch interlock switch.

**Action(s) to Take:**

- Inspect interlock switch for binding or excessive noise. Replace switch if necessary.

