4L60-E CLUTCH DEVICES

Identifying holding and apply devices

Name: _____ Date: _____ Class: _____

1. RESEARCH & IDENTIFY

Find a 4L60-E clutch application chart and power-flow diagrams in ProDemand or another approved reference. List each holding/apply device, the two components it connects, the gear member affected, its function, and when it operates. Include bands, clutches, and one-way devices.

Vehicle / year: _____ Reference: _____

#	Holding / apply device	Component 1	Component 2	Gear member affected	Hold / apply	Applied in which ranges / gears?
1	Example: 2-4 band	Transmission case	Reverse input drum	Reaction sun gear	Hold	2nd and 4th
2						
3						
4						
5						
6						
7						
8						

2. TRACE DEVICE OPERATION

For Drive and upshifts, use normal acceleration in the D / overdrive range. Note any one-way device that holds or overruns. Use your selected reference to verify each answer.

3. Which clutch or holding devices, if any, are applied in Park?

4. When Reverse is selected, which devices apply and which gear member is held?

5. When shifting from Reverse to Neutral, which devices release?

6. In Drive, 1st gear, which devices transmit torque and which provide holding action?

7. During the 1-2 upshift, which devices apply, release, or begin to overrun?

8. During the 2-3 upshift, which devices apply, release, or begin to overrun?

9. During the 3-4 upshift, which devices apply, release, or begin to overrun?

10. In 4th gear, identify the input, output, and held members of the overdrive planetary set.