



Technical Service Information

HONDA A4RA/B4RA/M4RA FLARED OR HARSH UPSHIFTS

COMPLAINT: Before and/or after overhaul, 1996-1998 vehicles *only*, equipped with the A4RA, B4RA or M4RA transaxles may exhibit flared or harsh upshift complaints.

CAUSE: The cause may be, a broken Clutch Pressure Control Valve Spring, located in the secondary valve body, allowing the valve to restrict clutch apply causing the flared shifts, or the pieces of the broken spring stacking on top of each other keeping the valve from stroking, creating the harsh shifts. Refer to Figure 2 for the valve's hydraulic function.

CORRECTION: Locate the Clutch Pressure Control Valve as shown in Figure 1. Remove the Lock nut. Refer to Figure 3 and measure the distance identified as Dimension "A". Record this measurement before removing the adjustable end plug. Remove the Adjustable End Plug and replace the broken spring, available from **Sonnax®**. Re-install the Adjustable End Plug back to the original depth setting of Dimension "A", *less .030"*.
For example, if the original factory setting was .230", the **Sonnax®** spring setting should be .200" (.230" minus .030"). Re-install the lock bolt after Dimension "A" is correct.
NOTE: This spring is not currently available from HONDA.

SERVICE INFORMATION:

Clutch Pressure Control Valve Spring, **Sonnax®** Part Number88894

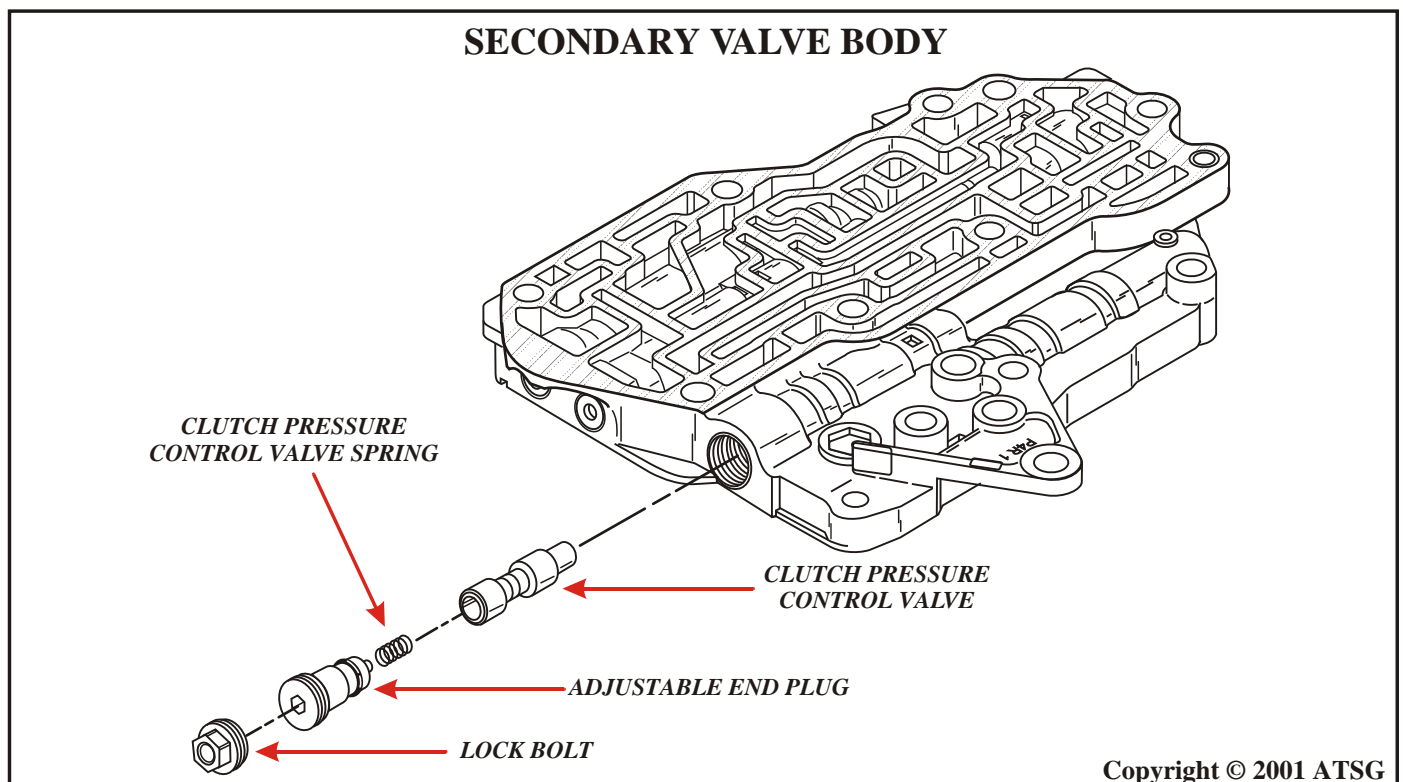


Figure 1

CLUTCH PRESSURE CONTROL VALVE FUNCTION

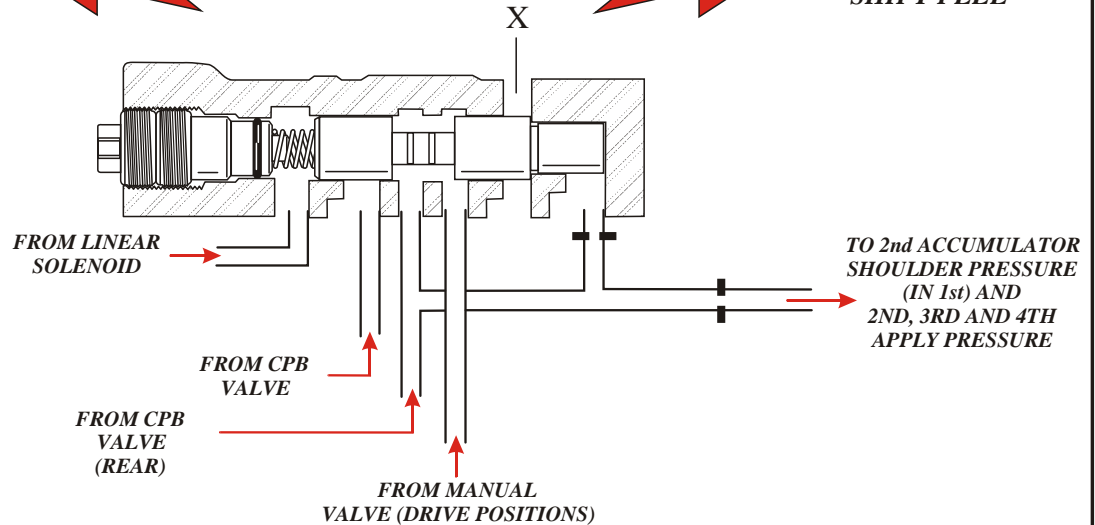
TO THE LEFT
EQUALS MINIMUM
"SHIFT FEEL"



VALVE POSITION



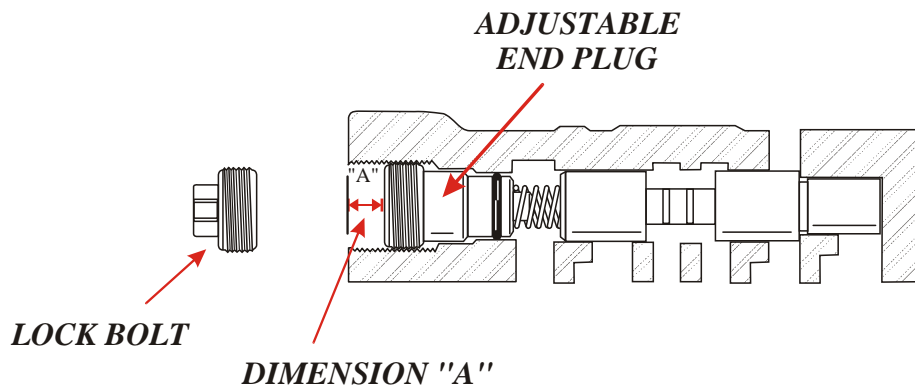
TO THE RIGHT
EQUALS MAXIMUM
"SHIFT FEEL"



**THE CLUTCH PRESSURE CONTROL VALVE CONTROLS
SHIFT FEEL FOR 2nd, 3rd AND 4th BASED ON THE LINEAR SOLENOID,
WHICH IS BASICALLY THROTTLE "B" PRESSURE**

Figure 2

CLUTCH PRESSURE CONTROL VALVE ADJUSTABLE END PLUG MEASUREMENT



Dimension "A" is the distance between adjustable end plug and the edge of the secondary valve body casting, as shown above. The factory setting for Dimension "A" is approximately .230".

SPECIAL NOTE: When using the Sonnax® replacement spring, the Dimension "A" setting must be .030" less than the original factory setting. For example, if the original factory setting was .230" the Sonnax® spring setting should be .200" (.230" minus .030"). If the original factory setting was not measured, set the Sonnax® spring setting to .195".

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Figure 3