



Technical Service Information

FORD AX4N ENGINE STALLS IN ANY GEAR

COMPLAINT: After rebuild, the engine stalls as soon as the manual shift lever is moved into any position except Park or Neutral.

CAUSE: The cause may be, the Bypass Clutch Control Plunger, located in the bypass clutch control valve line-up has been installed backwards, *as it is shown backwards in most service manuals.*

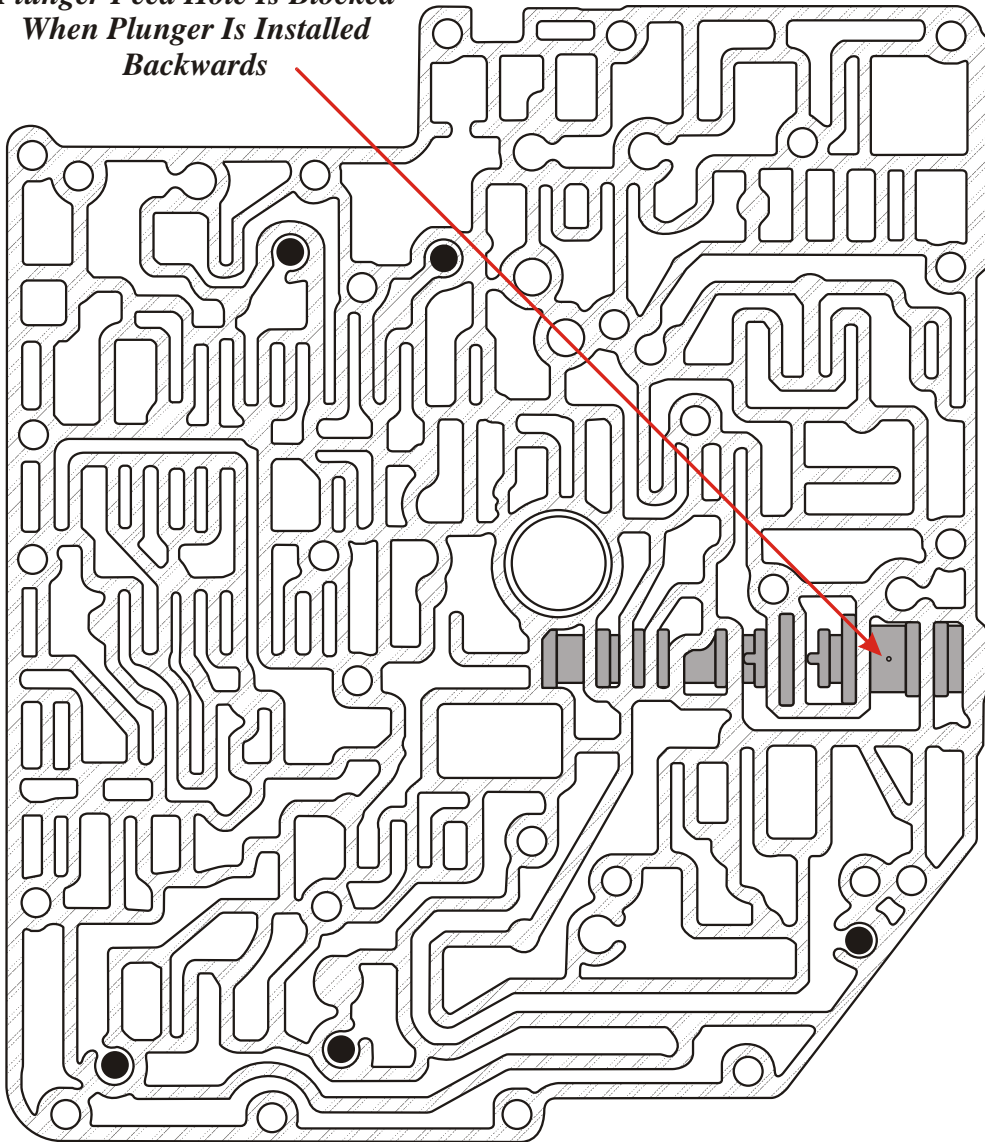
When the spring and/or plunger are installed backwards, the plunger blocks the feed hole in the plunger sleeve, which in turn causes the balance of the valve to be lost, as shown in Figure 1. This allows the bypass clutch control valve to stroke to a position that will allow all converter clutch release oil to be exhausted. This of course will allow the converter clutch to be applied, and the engine will stall as soon as the manual shift lever is moved out of Park or Neutral.

CORRECTION: Install the Bypass Clutch Control Valve, Plunger, Spring and Sleeve, as shown in the "*Correct*" illustrations in Figures 1 and 2.

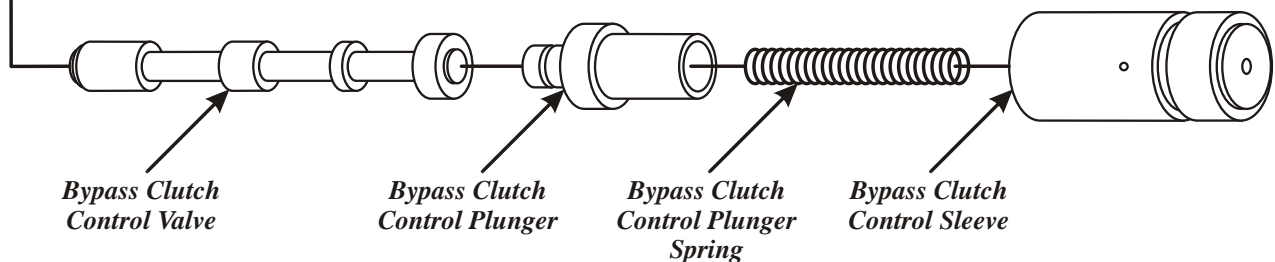
Do Not install the valve train as seen in the "*Incorrect*" illustrations in Figures 3 and 4.

Note: The Bypass Clutch Control Sleeve should *always* be checked during rebuild, as this is a high wear item, and can cause TCC apply and lube circuit problems.

*Plunger Feed Hole Is Blocked
When Plunger Is Installed
Backwards*



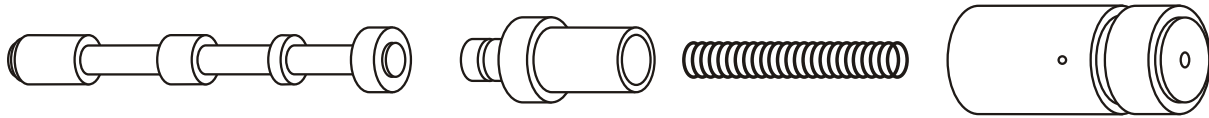
THIS IS "CORRECT" ASSEMBLY



Copyright © 2000 ATSG

Figure 1

THIS IS "*CORRECT*" ASSEMBLY

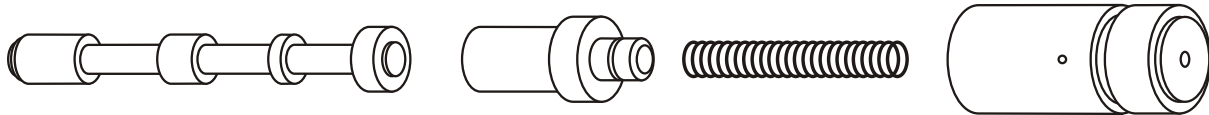


Copyright © 2000 ATSG

Figure 2

THIS IS "*INCORRECT*" ASSEMBLY

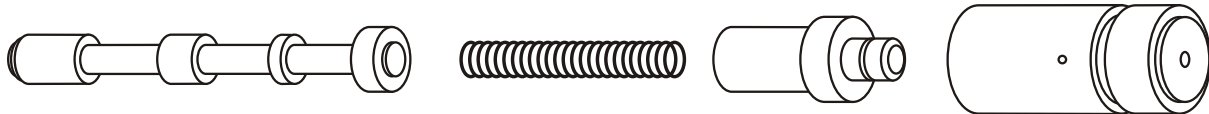
As Shown In Most Manuals



Copyright © 2000 ATSG

Figure 3

THIS IS "*INCORRECT*" ASSEMBLY



Copyright © 2000 ATSG

Figure 4