



# Technical Service Information

## FORD 5R55N SLIPS ON 2-3 UPSHIFT

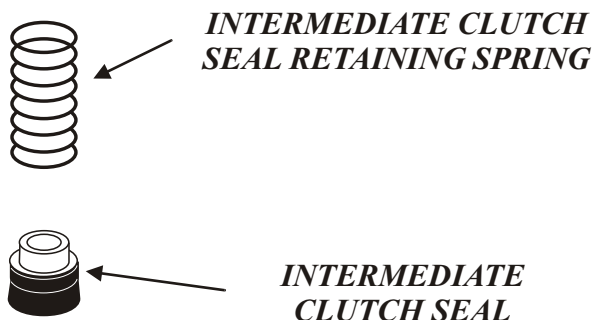
**COMPLAINT:** After overhaul, vehicles equipped with the 5R55N may exhibit a soft or flared upshift into 3rd gear.

**CAUSE:** The cause may be, that during overhaul, the Intermediate Clutch Seal, as shown in Figure 1, was not installed deep enough into the case. When this happens Intermediate Clutch pressure is lost between the case and the Intermediate piston housing.

NOTE: This is not commonly looked at because of the clutch and band application on the 5R55N. See Figure 2. Notice the Intermediate Clutch is on in 3rd gear in the Drive position. The term Intermediate, in the past, has normally meant 2nd gear. This is why the Intermediate Clutch is commonly overlooked as a problem with 3rd gear.

**CORRECTION:** Using a suitable punch, push the Intermediate Clutch Seal against the Intermediate Clutch Piston Housing, as shown in Figure 3. Place the retaining spring on top of the seal, as shown in Figure 4, and re-assemble the valve body onto the case.

### INTERMEDIATE CLUTCH SEAL



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Figure 1

## FORD 5R55N COMPONENT APPLICATION CHART

RANGE	FWD CLUT	INT <sup>1</sup> CLUT	DIR CLUT	COAST CLUT	O/D BAND	INT <sup>2</sup> BAND	L/R BAND	O/D SPRAG	INT <sup>3</sup> SPRAG	LOW SPRAG	RATIO
Park											
Reverse			ON	ON			ON	HOLD			3.07
Neutral											
"D5"-1st Gear	ON							HOLD		HOLD	3.25
"D5"-2nd Gear	ON				ON					HOLD	2.44
"D5"-3rd Gear	ON	ON						HOLD	HOLD		1.55
"D5"-4th Gear	ON	ON	ON					HOLD			1.00
"D5"-5th Gear	ON	ON	ON		ON						0.75
"D4"-1st Gear	ON			ON				HOLD		HOLD	3.25
"D4"-2nd Gear	ON				ON					HOLD	2.44
"D4"-3rd Gear	ON	ON		ON				HOLD	HOLD		1.55
"D4"-4th Gear	ON	ON	ON	ON				HOLD			1.00
"3"-1st Gear	ON			ON				HOLD		HOLD	3.25
"3"-2nd Gear	ON				ON					HOLD	2.44
"3"-3rd Gear	ON	ON		ON		ON		HOLD	HOLD		1.55
"2"-2nd Hold *	ON				ON		ON			HOLD	2.44
"1"-1st Hold	ON			ON			ON	HOLD		HOLD	3.25

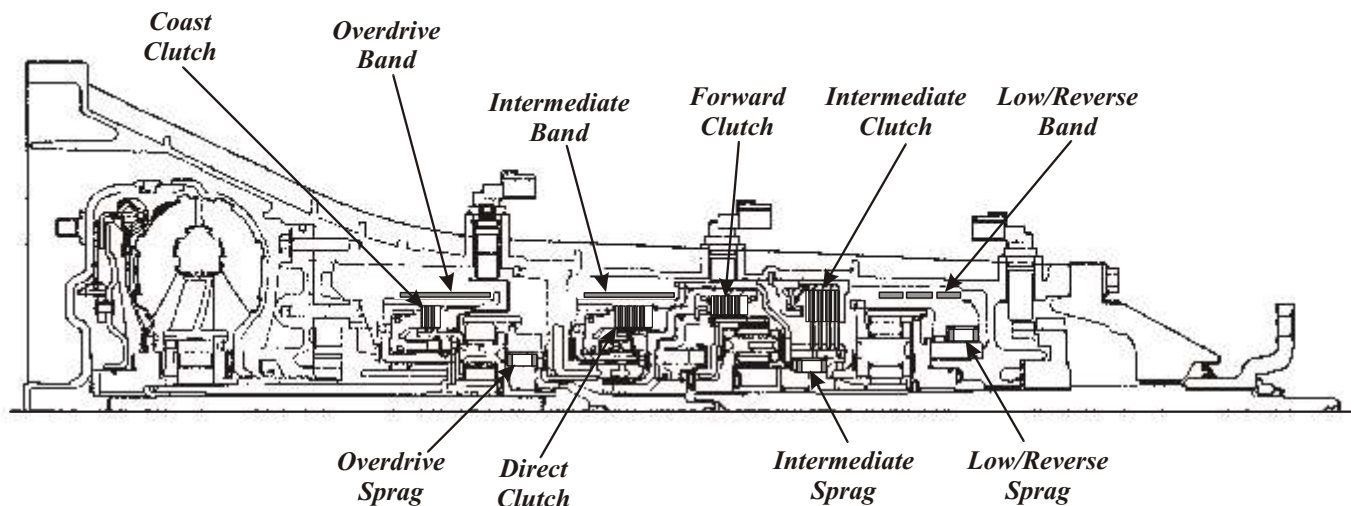
\* Manual "2" is 2nd starts and hold.

\*\* Manual "1" provides 1st gear operation only.

1 - Ford named the new clutch Intermediate Clutch, actually active in 3rd gear.

2 - Intermediate Band is now ON only in Manual 3rd gear.

3 - Ford named the new sprag Intermediate Sprag, actually active in 3rd gear.



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Figure 2

## INTERMEDIATE CLUTCH SEAL INSTALLATION

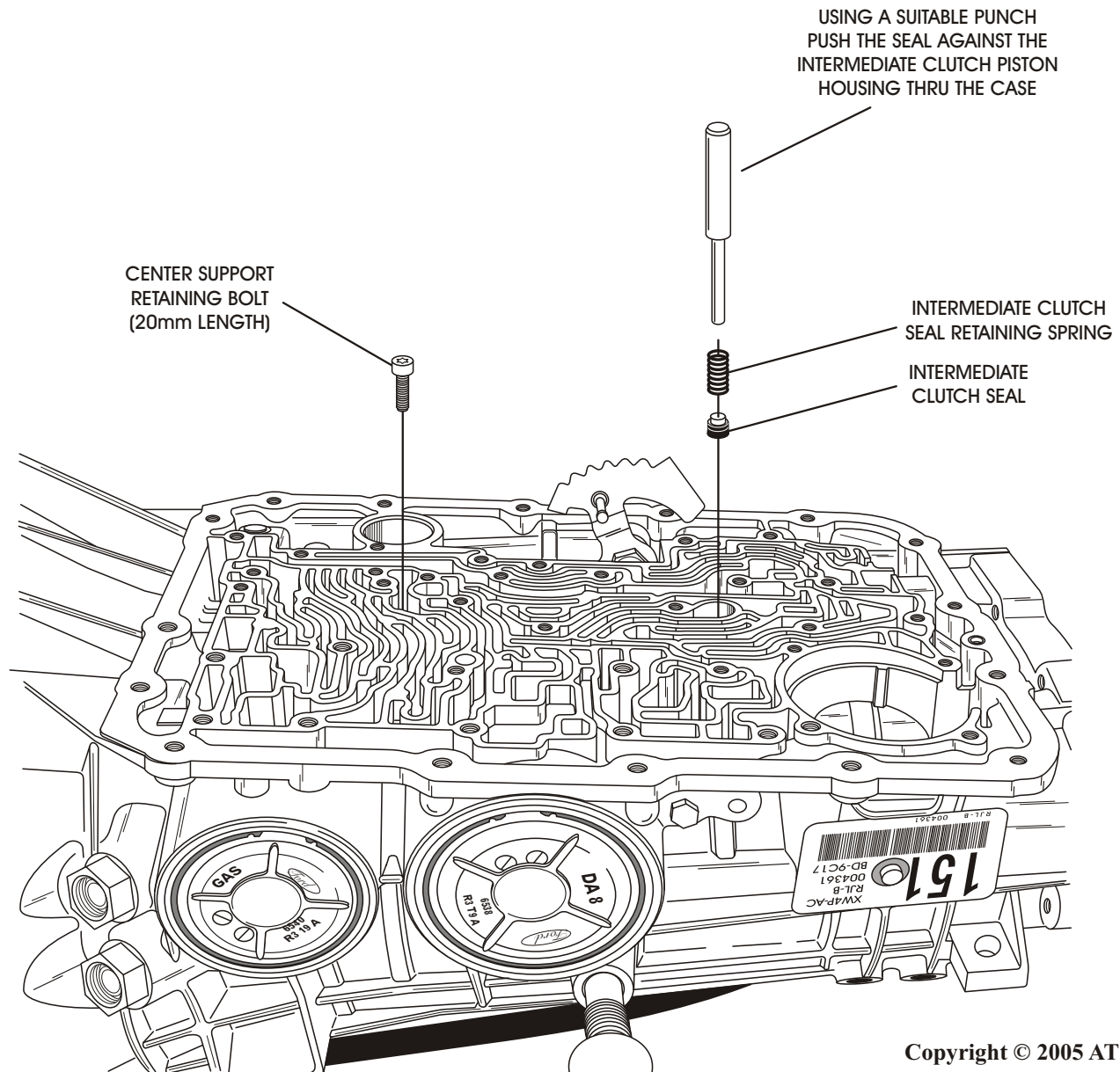
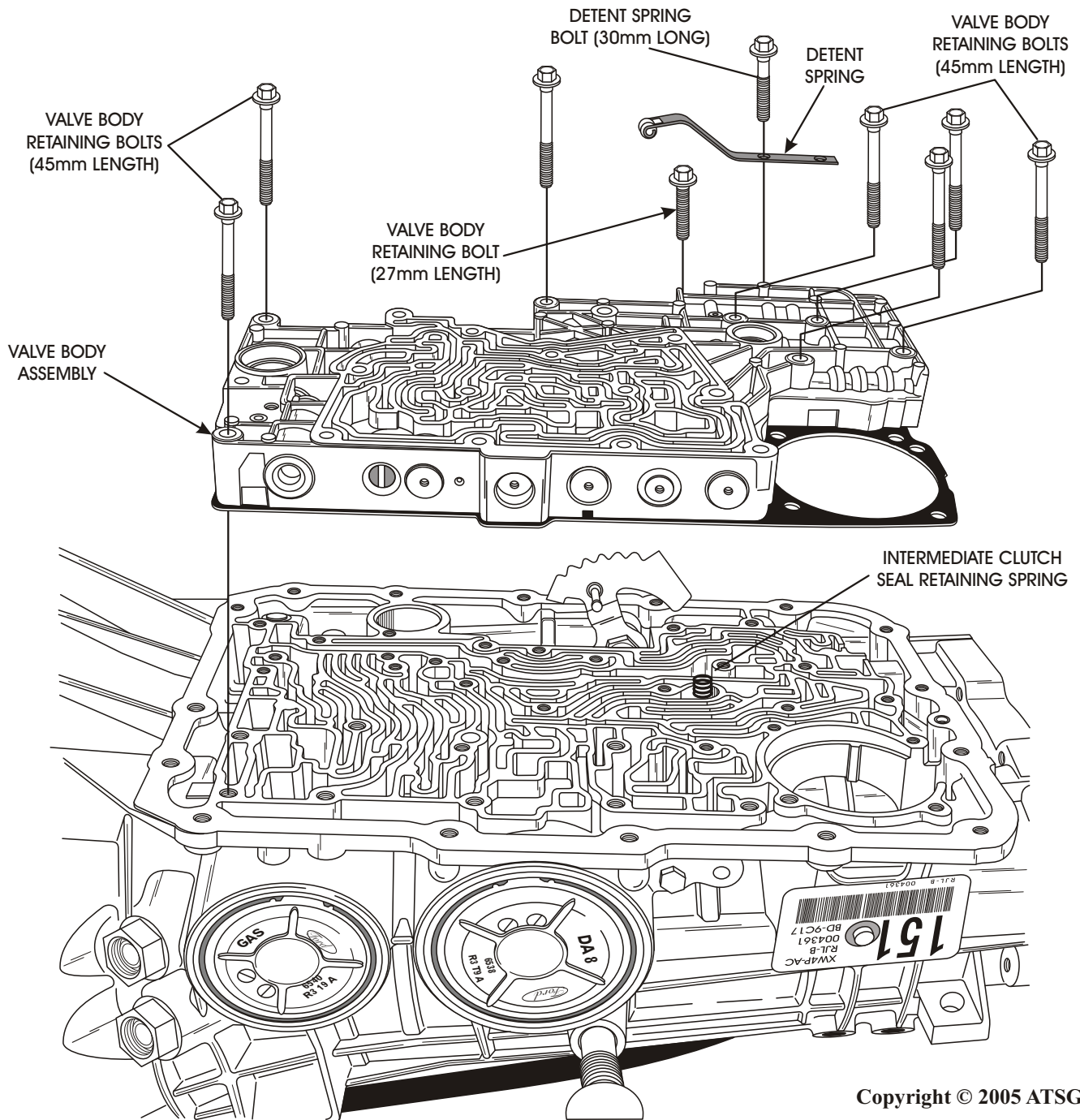


Figure 3

## VALVE BODY RE-ASSEMBLY



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Figure 4