

#### 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.

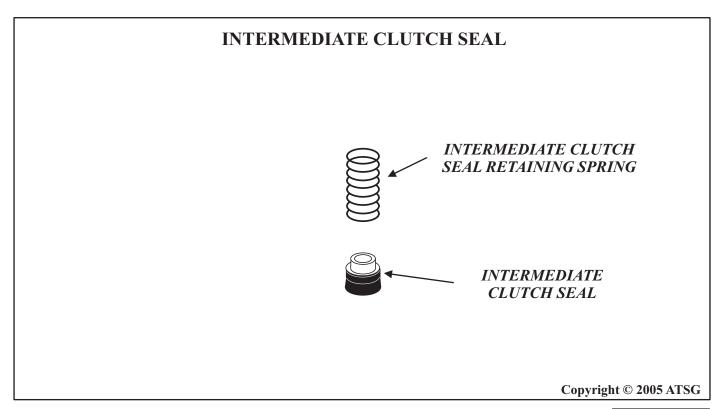
NOTE: This is not commonly looked at because of the clutch and band application on the 5R55N. See Figure 2. Notice the Intermediate Clutch is on in 3rd gear in the Drive position. The term Intermediate, in the past, has normally meant 2nd gear. This is why the

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.

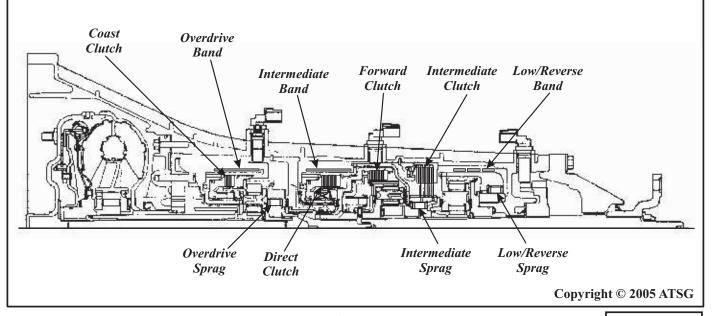




FORD 5R55N COMPONENT APPLICATION CHART											
RANGE	FWD CLUT	INT <sup>1</sup> CLUT	DIR CLUT	COAST CLUT	O/D BAND	INT <sup>2</sup> BAND	L/R BAND	O/D SPRAG	INT <sup>3</sup> SPRAG	LOW SPRAG	RATIO
Park											
Reverse			<b>O</b> N	<b>O</b> N			<b>O</b> N	HOLD			3.07
Neutral											
"D5"-1st Gear	ON							HOLD		HOLD	3.25
"D5"-2nd Gear	ON				ON					HOLD	2.44
"D5"-3rd Gear	ON	<b>O</b> N						HOLD	HOLD		1.55
"D5"-4th Gear	ON	<b>O</b> N	<b>O</b> N					HOLD			1.00
"D5"-5th Gear	ON	<b>O</b> N	<b>O</b> N		<b>O</b> N						0.75
"D4"-1st Gear	ON			<b>O</b> N				HOLD		HOLD	3.25
"D4"-2nd Gear	ON				ON					HOLD	2.44
"D4"-3rd Gear	ON	<b>O</b> N		ON				HOLD	HOLD		1.55
"D4"-4th Gear	ON	<b>O</b> N	<b>O</b> N	<b>O</b> N				HOLD			1.00
"3"-1st Gear	ON			<b>O</b> N				HOLD		HOLD	3.25
"3"-2nd Gear	ON				<b>O</b> N					HOLD	2.44
"3"-3rd Gear	ON	<b>O</b> N		ON		<b>O</b> N		HOLD	HOLD		1.55
"2"-2nd Hold *	ON				<b>O</b> N		<b>O</b> N			HOLD	2.44
"1"-1st Hold	ON			<b>O</b> N			ON	HOLD		HOLD	3.25

<sup>\*</sup> Manual "2" is 2nd starts and hold.

- 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.



<sup>\*\*</sup> Manual "1" provides 1st gear operation only.



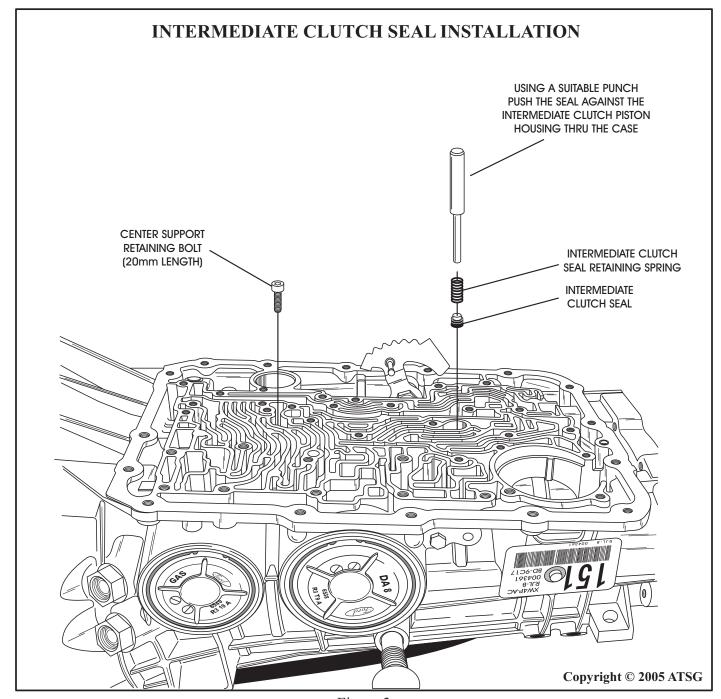


Figure 3



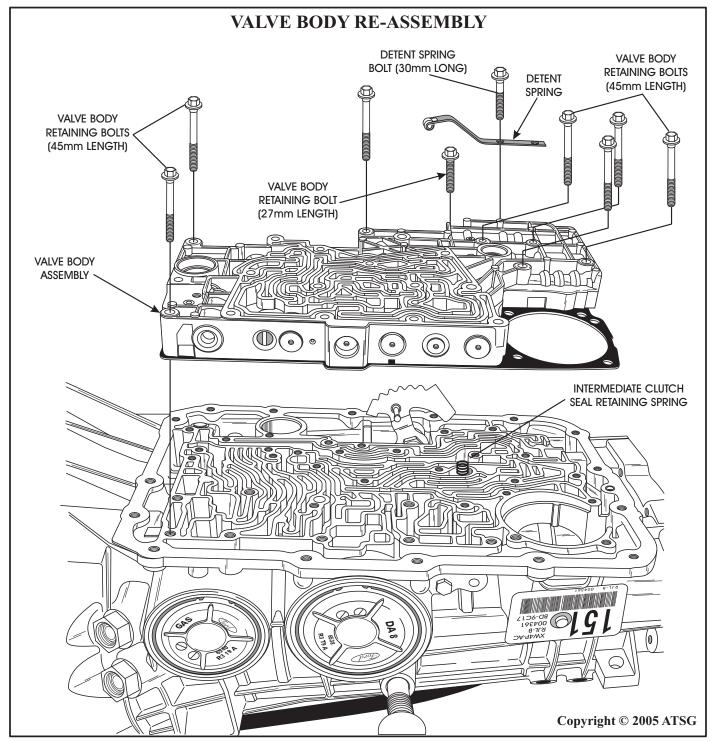


Figure 4