



Technical Service Information

The Ford 4R44E and 4R55E were introduced by Ford Motor Company in model year 1995, and are basically total electronic controlled A4LD units. Refer to illustration in Figure 1. They are found in Ranger and Explorer vehicles for 1995 model year as standard equipment. The difference in the number designations is identification for different torque carrying capacity, as shown in the chart in Figure 1. Notice also in Figure 1 that the 4R55E transmission is found behind the 4.0L engines, and the 4R44E transmission is found in 2.3L and 3.0L models. The 4R55E version has more clutch plates.

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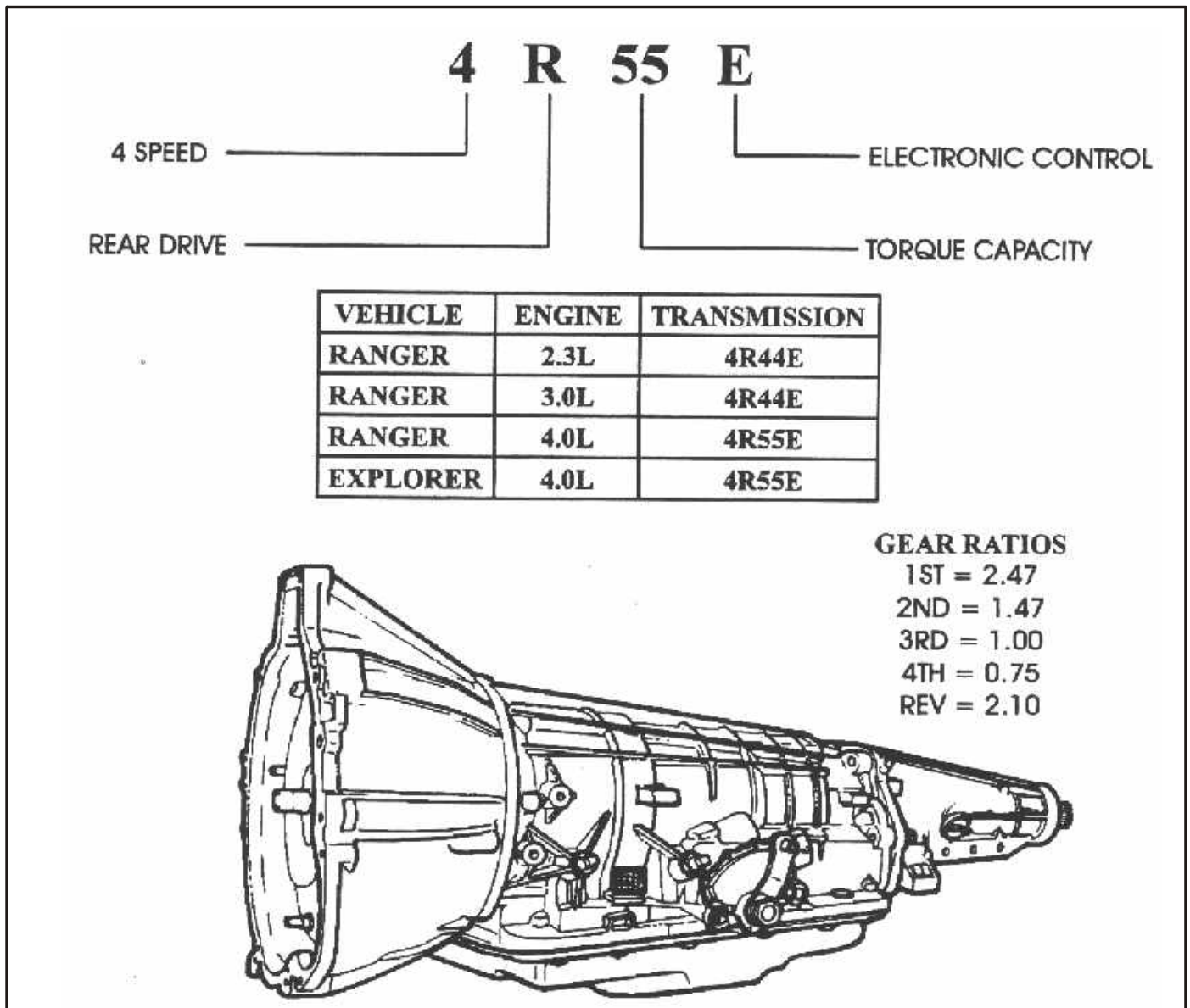


Figure 1



Technical Service Information

We have provided you with the clutch and band application chart and the shift solenoid pattern, as shown in Figure 2. This unit has a total of 6 solenoids mounted on the valve body, 3 Shift Solenoids, EPC Solenoid, Coast Clutch Solenoid, and TCC Solenoid. Solenoid locations are identified in Figure 3. Case connector pin functions, and resistance specifications for all internal components, can be found in the charts in Figure 4, and case connector pin locations are identified in Figure 5.

The Turbine Shaft Speed Sensor, which is mounted inside the unit and bolts into the center support, is also unique to this unit. The Turbine Shaft Speed Sensor is triggered by a new “Wheel” pressed onto the overdrive carrier, and the set-up of all of these parts are shown in Figure 6.

Figure 3

FUNCTION	POSITION	OVERDRIVE BAND	INTERMEDIATE BAND	LOW/REVERSE BAND	FORWARD CLUTCH	DIRECT CLUTCH	COAST CLUTCH	OVERDRIVE ONE-WAY CLUTCH		REAR ONE-WAY CLUTCH	
								DRIVE	COAST	DRIVE	COAST
PARK	P										
REVERSE	R			A		A	A/W	H	OR*		
NEUTRAL	N										
1ST	Ⓐ				A		A/W	H	OR*	H	OR
2ND	Ⓑ		A		A		A/W	H	OR*	OR	OR
3RD	Ⓒ				A	A	A/W	H	OR*	OR	OR
4TH	Ⓓ	A			A	A		OR	OR	OR	OR
MANUAL 2ND	2		A		A		A	H	H		
MANUAL 1ST	1			A	A		A	H	H	H	H
PLANETARY COMPONENT		OS	FS	RP	FR	FS	OS/OP	ODR/OP	ODR	RP	RP

A = APPLIED

OR = OVER RUNNING

FS = FORWARD SUN GEAR

FR = FORWARD RING GEAR

H = HOLDING

ODR = OVERDRIVE RING GEAR

A/W = APPLIED WITH TCIL ON
OVERDRIVE CANCELLED

OS = OVERDRIVE SUN GEAR

RP = REAR PLANETARY ASSEMBLY

OP = OVERDRIVE PLANETARY ASSEMBLY

* = HOLDING WITH OVERDRIVE CANCELLED – TCIL ON

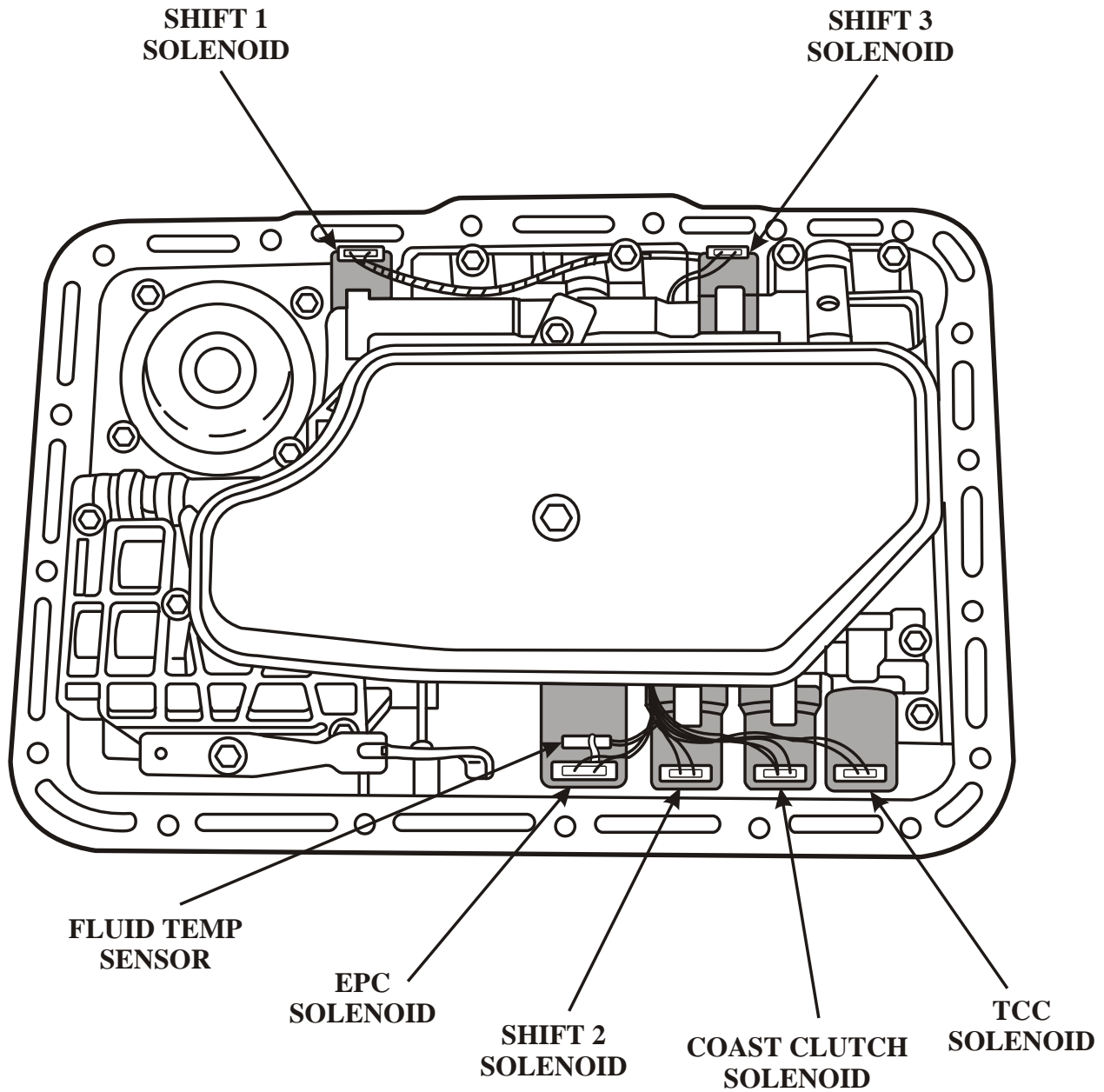
GEAR SELECTOR POSITION	POWERTRAIN CONTROL MODULE (PCM) GEAR COMMANDED	SOLENOIDS				
		ENGINE BRAKE	SS1	SS2	SS3	CCS
P	P	NE	On	Off	Off	Off
R	R	No	On	Off	Off	Off
R	R*	Yes	On	Off	Off	On
N	N	NE	On	Off	Off	Off
Ⓐ	1st	No	On	Off	Off	Off
Ⓐ	1st*	Yes	On	Off	Off	On
Ⓑ	2nd	No	On	On	Off	Off
Ⓑ	2nd*	Yes	On	On	Off	On
Ⓒ	3rd	No	Off	Off	Off	Off
Ⓒ	3rd*	Yes	Off	Off	Off	On
Ⓓ	4th	No	Off	Off	On	Off
MAN 2nd	2nd	Yes	On	On	Off	On
MAN 1st	1st	Yes	On	Off	Off	On

NE = No Effect

* = Overdrive Cancelled – TCIL ON

Figure 2
Figure 3

FORD 4R44E/4R55E SOLENOID LOCATIONS



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Figure 3

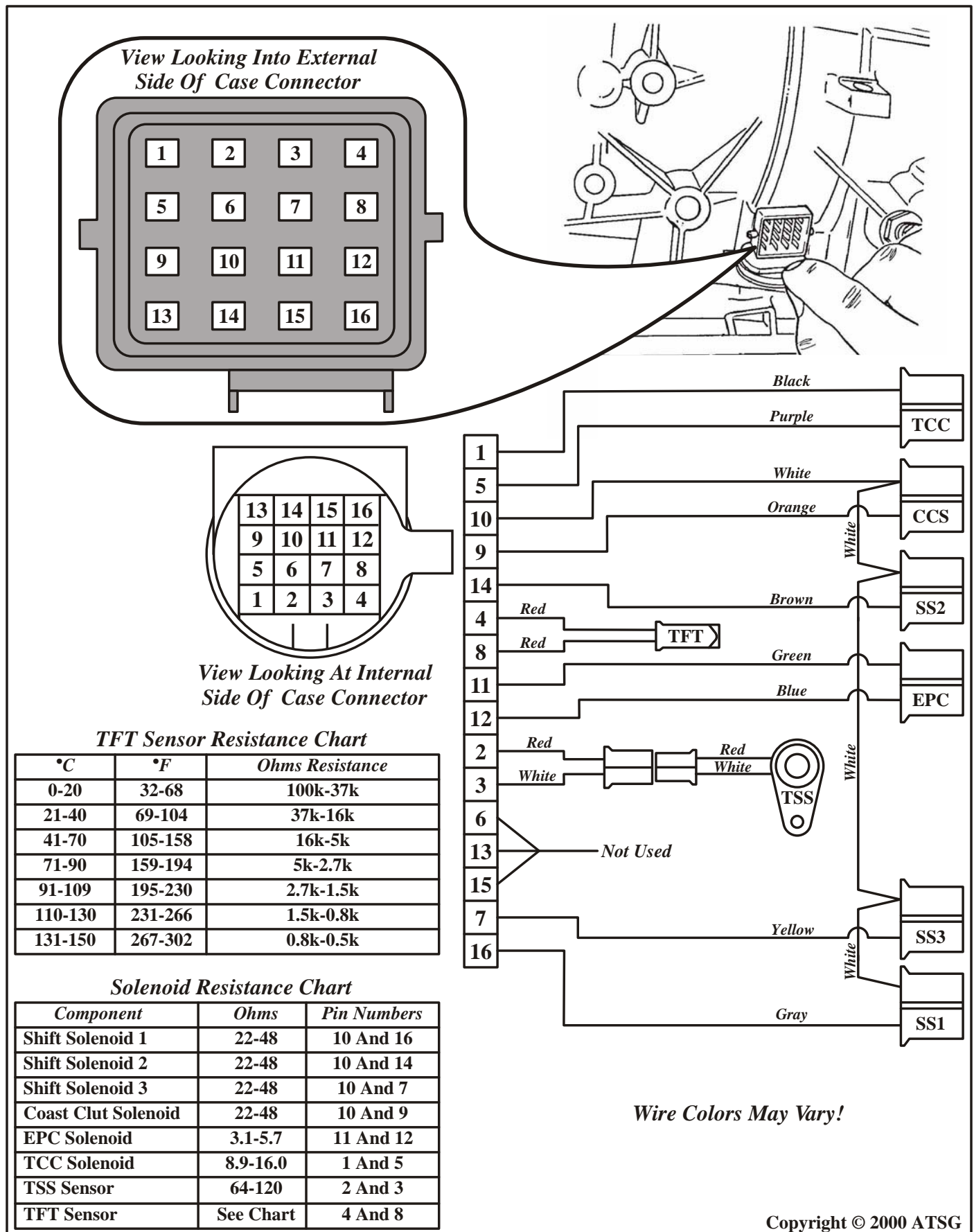


Figure 3

TURBINE SHAFT SPEED SENSOR

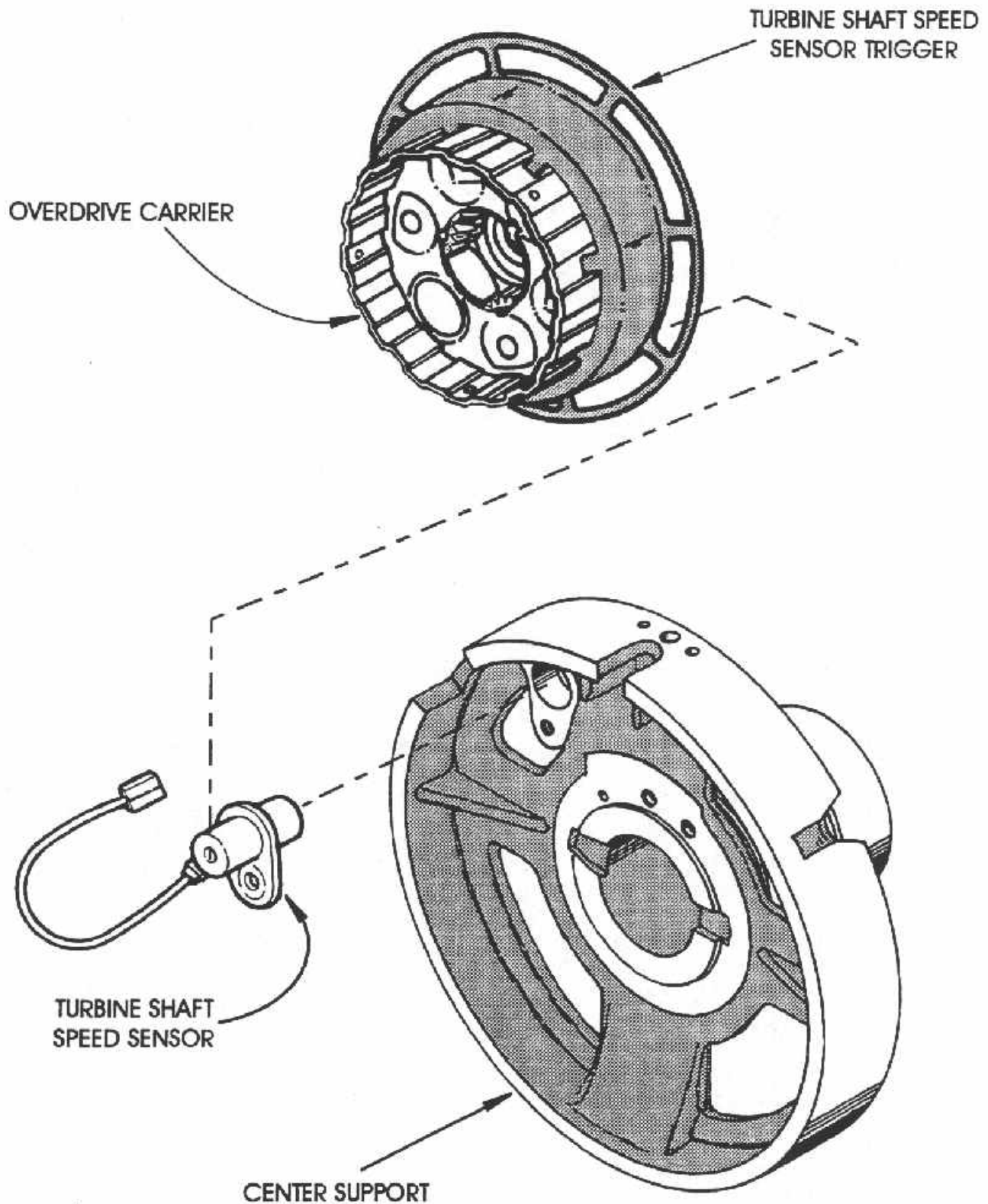


Figure 5