

## SPECIFICATIONS

### General Specifications

Item	Specification
<b>Fluid</b>	
<b>CAUTION: Use only MERCON® V transmission fluid. Use of any other fluids may result in transmission failure.</b>	
<ul style="list-style-type: none"> <li>• Normal maintenance               <ul style="list-style-type: none"> <li>— Fluid change not necessary, filled for life.</li> </ul> </li> <li>• Severe duty maintenance               <ul style="list-style-type: none"> <li>— Change the fluid at 48,000 km (30,000 miles) intervals.</li> </ul> </li> </ul>	
Motorcraft MERCON® V Automatic Transmission Fluid XT-5-QM	MERCON® V
<b>Fluid Capacity</b>	

### General Specifications (Continued)

Item	Specification
<b>NOTE:</b> Approximate dry capacity includes cooler and tubes. Fluid level procedures in this section should be used to determine actual fluid requirements and fluid specification. DO NOT OVERFILL. If it is necessary to add or change fluid, use only fluid which has been certified by the supplier as meeting the Ford Motor Company specification shown.	
All engines	11.2L (11.9 quarts)
<b>Fluid Filter</b>	
In-Line Transmission Fluid Filter Kit 7B155	—
In-Line Transmission Fluid Filter 7B155	—
<b>Lubricant</b>	
Ford Multi-Purpose Grease XG-4	ESR-M1C159-A
Premium Long-Life Grease XG-1-C	ESA-M1C75-B

### End Play Specifications

Transmission Overdrive End Play Dimension D	Select Thrust Washer (No. 1 Nylon)		ID: Color
	Part Number	Thickness	
38.05-38.13 mm (1.50 in)	F7TZ-TA	1.55-1.60 mm (0.061-0.063 in)	White
38.14-38.23 mm (1.50-1.51 in)	F7TZ-MA	1.75-1.80 mm (0.069-0.071 in)	Green
38.29-38.42 mm (1.51 in)	F7TZ-NA	1.85-1.90 mm (0.073-0.075 in)	Red
38.43-38.61 mm (1.51-1.52 in)	F7TZ-RA	2.05-2.10 mm (0.081-0.083 in)	Black
38.62-38.74 mm (1.52-1.53 in)	F7TZ-SA	2.15-2.20 mm (0.095-0.097 in)	Yellow

### End Play Specifications

Rear (No. 4) Dimension E	Selective Needle Bearings (No. 4)		ID: Notches
	Part Number	Thickness	
1.67-1.85 mm (0.066-0.073 in)	XW4Z-7D014-CA	2.65-2.80 mm (0.104-0.110 in)	0
1.86-2.04 mm (0.073-0.080 in)	XW4Z-7D014-DA	2.80-2.95 mm (0.110-0.116 in)	1
2.05-2.23 mm (0.081-0.088 in)	XW4Z-7D014-EA	3.00-3.15 mm (0.118-0.124 in)	2
2.25-2.43 mm (0.089-0.096 in)	XW4Z-7D014-FA	3.20-3.35 mm (0.126-0.132 in)	3

### Shift Speeds — All engines

Throttle Position	D5 Position	Shift Speed
	Shift	Axle Ratio
Closed	5-4	37-42 km/h (23-26 mph)
	4-1	16-19 km/h (10-12 mph)
Minimum	1-2	18-21 km/h (11-13 mph)

**SPECIFICATIONS (Continued)****Shift Speeds — All engines (Continued)**

Throttle Position	D5 Position	Shift Speed
	Shift	Axle Ratio
Monitor PID TP volt 1.25	2-3	26-30 km/h (16-19 mph)
	3-4	34-35 km/h (21-22 mph)
	4-5	39-45 km/h (24-28 mph)
Wide Open	1-2	64-67 km/h (40-42 mph)
	2-3	93-106 km/h (58-66 mph)
	3-4	140-148 km/h (87-92 mph)
	4-5	171-217 km/h (106-135 mph)

**Band Adjustment and Torque Chart**

Description	No. of Turns to Back Off	Locknut		Adjusting Screw	
		Nm	Lb-Ft	Nm	Lb-Ft
Intermediate Band	1.5	54	40	14	10
Overdrive Band	1.5	54	40	14	10

**Selective Snap Rings**

Coast and Direct Clutch Drum				
Part Number	Thickness		Diameter	
	mm	inch	mm	inch
E860126-S	1.37	0.0539	130.1	5.122
E860127-S	1.73	0.0681	130.1	5.122
E860128-S	2.08	0.0819	130.1	5.122
E860129-S	2.44	0.0961	130.1	5.122

**Selective Snap Rings**

Forward Clutch Cylinder				
Part Number	Thickness		Diameter	
	mm	inch	mm	inch
XW4Z-7D483-AB	1.73	0.0681	141.45	5.56
XW4Z-7D483-AC	2.08	0.0819	141.45	5.56
XW4Z-7D483-AD	2.44	0.0961	141.45	5.56

**Service Identification Model Chart**

Vehicle Application			
7000 Prefix and Suffix	C=Column F=Floor	Engine Displacement	Vehicle Application
4R3P-BA	F	4.0L	Mustang
4R3P-AA	F	4.6L	Mustang

**SPECIFICATIONS (Continued)****Solenoid Operation Chart**

Gearshift Selector Position	PCM Commanded Gear	5R55S Solenoid States						
		SSA	SSB	SSC	SSD	PCA	PCB	PCC
P	P	ON	OFF	OFF	ON	L	H/L	L
N	N	ON	OFF	OFF	ON	L	H/L	L
R	R	ON	OFF	OFF	ON	L/H	L	H
D	1	ON	OFF	OFF	ON	H	H/L	L
	2	ON	OFF	ON	ON	L/H	H	L
	3	ON	ON	OFF	ON	H	L/H	L
	4	OFF	OFF	OFF	ON	H	H/L	H
	5	OFF	OFF	ON	ON	H	H	H
D (D) Cancelled	1	ON	OFF	OFF	ON	H	H/L	L
	2	ON	OFF	ON	ON	L/H	H	L
	3	ON	ON	OFF	ON	H	L/H	L
	4	OFF	OFF	OFF	OFF	L/H	H	H
Manual 3	3	ON	ON	OFF	OFF	H	L	H/L
Manual 2	2	ON	OFF	ON	OFF	H	L	H/L
Manual 1	1	ON	OFF	OFF	OFF	H	L	H/L

H = HIGH

L = LOW

H/L = PCM controlled

Manual = if equipped

**Band/Clutch Application Chart A**

	Overdrive Band	Intermediate Band	Reverse Band	Forward Clutch	Direct Clutch	Coast Clutch
REVERSE			A <sup>a</sup>		A <sup>a</sup>	
1st				A <sup>a</sup>		
2nd	A			A <sup>a</sup>		
3rd		A <sup>a</sup>		A <sup>a</sup>		
4th				A <sup>a</sup>	A <sup>a</sup>	
5th	A <sup>a</sup>			A <sup>a</sup>	A <sup>a</sup>	
1st <sup>b</sup>				A <sup>a</sup>		
2nd <sup>b</sup>	A <sup>a</sup>			A <sup>a</sup>		
3rd <sup>b</sup>		A <sup>a</sup>		A <sup>a</sup>		
4th <sup>b</sup>				A <sup>a</sup>	A <sup>a</sup>	Ac <sup>c</sup>
MAN. 3rd		Ac <sup>c</sup>		A <sup>a</sup>		Ac <sup>c</sup>
MAN. 2nd	A <sup>a</sup>		Ac <sup>c</sup>	A <sup>a</sup>		
MAN. 1st			Ac <sup>c</sup>	A <sup>a</sup>		Ac <sup>c</sup>

a A = Applied

b D Position (overdrive cancelled)

c Ac = Applied to carry coast torque

**SPECIFICATIONS (Continued)****Band/Clutch Application Chart B**

	Direct One-Way Clutch		Low One-Way Clutch		Engine Braking
	Drive	Coast	Drive	Coast	
REVERSE	H <sup>a</sup>	OR <sup>b</sup>	NE <sup>c</sup>		NO
1st	H <sup>a</sup>	OR <sup>b</sup>	H <sup>a</sup>	OR <sup>b</sup>	NO
2nd	OR <sup>b</sup>	OR <sup>b</sup>	H <sup>a</sup>	OR <sup>b</sup>	NO
3rd	H <sup>a</sup>	OR <sup>b</sup>	OR <sup>b</sup>	OR <sup>b</sup>	NO
4th	H <sup>a</sup>	OR <sup>b</sup>	OR <sup>b</sup>	OR <sup>b</sup>	NO
5th	OR <sup>b</sup>	OR <sup>b</sup>	OR <sup>b</sup>	OR <sup>b</sup>	YES
1st <sup>d</sup>	H <sup>a</sup>	OR <sup>b</sup>	H <sup>a</sup>	OR <sup>b</sup>	YES
2nd <sup>d</sup>	OR <sup>b</sup>	OR <sup>b</sup>	H <sup>a</sup>	OR <sup>b</sup>	YES
3rd <sup>d</sup>	H <sup>a</sup>	OR <sup>b</sup>	OR <sup>b</sup>	OR <sup>b</sup>	YES
4th <sup>d</sup>	H <sup>a</sup>	OR <sup>b</sup>	OR <sup>b</sup>	OR <sup>b</sup>	YES
MAN. 3rd	H <sup>a</sup>	OR <sup>b</sup>	OR <sup>b</sup>	OR <sup>b</sup>	YES
MAN. 2ND	OR <sup>b</sup>	OR <sup>b</sup>	H <sup>a</sup>	OR <sup>b</sup>	YES
MAN. 1ST	H <sup>a</sup>	OR <sup>b</sup>	H <sup>a</sup>	OR <sup>b</sup>	YES

a H = Hold

b OR = Overrunning

c NE = No effect

d D Position (overdrive cancelled)

**Line Pressure Chart — 4.0L and 4.6L Engines**

Range	Idle Pressure		WOT Stall Pressure	
	PC C	Line	PC C	Line
N	0-103 kPa (0-15 psi)	758-1,034 kPa (110-150 psi)		
R	758-862 kPa (110-125 psi)	965-1,551 kPa (140-225 psi)	758-862 kPa (110-125 psi)	2,000-2,482 kPa (290-360 psi)
(D), 2, 1	0-103 kPa (0-15 psi)	758-1,034 kPa (110-150 psi)	0-103 kPa (0-15 psi)	1,448-1,793 kPa (210-260 psi)

**Stall Speed Chart**

Vehicle	Engine	RPM
Mustang	4.0L	2,290-2,705
Mustang	4.6L	2,556-3,014

**Torque Specifications**

Description	Nm	lb-ft	lb-in
Case-to-center support bolt	11	8	—
Digital transmission range (TR) sensor-to-case screws	10	—	89
Driveshaft screws and nuts	81	60	—

**Torque Specifications (Continued)**

Description	Nm	lb-ft	lb-in
Extension housing screws and studs	24	18	—
Fluid level indicator plug-to-drain pipe assembly	10	—	89
Fluid pan drain plug	26	19	—
Fluid pump housing screws	25	18	—
Heat shield screws	10	—	89
Locknut for band adjustment	54	40	—
Main control-to-case screws	10	—	89

**SPECIFICATIONS (Continued)****Torque Specifications (Continued)**

Description	Nm	lb-ft	lb-in
Manual control valve detent spring-to-case screw	10	—	89
Manual control lever shaft nut	48	35	—
Output shaft-to-flange nut	131	97	—
Overdrive band adjustment screw	14	10	—
Pressure tap plug to case	14	10	—
Pump assembly-to-case screws	25	18	—
Reverse servo assembly-to-case screws (stage 1)	5	—	44
Reverse servo assembly-to-case screws (stage 2)	11	8	—
Separator-to-main control screws	7	—	62
Shift cable bracket screws	25	18	—
Solenoid body-to-case screws	8	—	71
Speed sensor-to-case screws	14	10	—

**Torque Specifications (Continued)**

Description	Nm	lb-ft	lb-in
Torque converter adapter plate nuts to converter	44	33	—
Torque converter adapter plate-to-flexplate nut	35	26	—
Transmission cooler tube fitting to case	47	35	—
Transmission cooler tube nut to case fitting	35	26	—
Transmission fluid filter-to-case screws	10	—	89
Transmission fluid pan-to-case screws	11	8	—
Transmission mount-to-extension housing center screw	40	30	—
Transmission mount-to-extension housing screws	50	37	—
Transmission mount-to-floor pan screws	55	41	—
Transmission-to-engine screws	48	35	—
Vehicle harness-to-solenoid body screw	5	—	44