

Material

Item	Specification	Fill Capacity
Dye-Lite® ATF/Power Steering Fluid Leak Detection Dye 164-R3701 (Rotunda)	—	—
MERCON® V Automatic Transmission Fluid XT-5-QM (or XT-5-QMC) (US); CXT-5-LM12 (Canada)	MERCON® V	11.2L (11.9 qt)
Multi-Purpose Grease XG-4 and/or XL-5	ESB-M1C93-B	—
Premium Long-Life Grease XG-1-C or XG-1-K (US); CXG-1-C (Canada)	ESA-M1C75-B	—

General Specifications

Item	Specification
NOTICE: Use only MERCON® V automatic transmission fluid. Use of any other fluids may result in transmission failure.	
<ul style="list-style-type: none"> • Normal maintenance <ul style="list-style-type: none"> ▪ Fluid change not necessary, filled for life. • Severe duty maintenance <ul style="list-style-type: none"> ▪ Change the fluid at 48,000 km (30,000 mi) intervals. 	
NOTE: 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.	
Fluid Filter	
In-Line Transmission Fluid Filter Kit 7B155	—

Assembly Weight

Description	Specification
4.0L Equipped Vehicles	87.5 kg (193 lb)
4.6L Equipped Vehicles	88.3 kg (195 lb)

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 (1.498-1.501 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 (1.507-1.513 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 — 4.0L Engine**NOTICE:** Always obey local traffic laws, do not exceed posted limits.

Throttle Position	Overdrive Position "D"	Axle Ratio
	Shift	Shift Speed
Closed	5-4	37-42 km/h (23-26 mph)
	4-1	16-19 km/h (10-12 mph)
Minimum	1-2	19-21 km/h (12-13 mph)
Monitor PID	2-3	27-31 km/h (17-19 mph)
Throttle Position (TP) Volt 1.25	3-4	34-35 km/h (21-22 mph)
	4-5	39-43 km/h (24-27 mph)
Wide	1-2	64-68 km/h (40-42 mph)
Open	2-3	93-101 km/h (58-63 mph)
	3-4	140-145 km/h (87-90 mph)
	4-5	171-174 km/h (106-108 mph)

Shift Speeds — 4.6L Engine**NOTICE:** Always obey local traffic laws, do not exceed posted limits.

Throttle Position	Overdrive Position "D"	Axle Ratio
	Shift	Shift Speed
Closed	5-4	39 km/h (24 mph)
	4-1	16 km/h (10 mph)
Minimum	1-2	18 km/h (11 mph)
Monitor PID	2-3	27 km/h (17 mph)
Throttle Position (TP) Volt 1.25	3-4	35 km/h (22 mph)
	4-5	39 km/h (24 mph)
Wide	1-2	68 km/h (42 mph)
Open	2-3	106 km/h (66 mph)
	3-4	148 km/h (92 mph)
	4-5	217 km/h (135 mph)

Band Adjustment and Torque Chart

Description	Number of Turns to Back Off	Locknut		Adjusting Screw	
		Nm	Lb-Ft	Nm	Lb-Ft
Intermediate Band	1.5	54	40	14	10
Overdrive (O/D) 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
9R3P-BA	F	4.0L	Mustang
9R3P-AA	F	4.6L	Mustang

Solenoid Operation Chart

Gearshift Selector Position	PCM Comm-anded 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	1	ON	OFF	OFF	ON	H	H/L	L
(D)	2	ON	OFF	ON	ON	L/H	H	L
Cancelled	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	Interme- diate Band	Reverse Band	Forward Clutch	Direct Clutch	Coast Clutch
Reverse			A ^a		A ^a	
1st				A ^a		
2nd	A			A ^a		
3rd		A ^a		A ^a		
4th				A ^a	A ^a	
5th	A ^a			A ^a	A ^a	
1st ^b				A ^a		
2nd ^b	A ^a			A ^a		
3rd ^b		A ^a		A ^a		
4th ^b				A ^a	A ^a	Ac ^c
Manual 3rd		Ac ^c		A ^a		Ac ^c
Manual 2nd	A ^a		Ac ^c	A ^a		
Manual 1st			Ac ^c	A ^a		Ac ^c

^a A = Applied

^b D Position ((D) cancelled)

^c Ac = Applied to carry coast torque

Band/Clutch Application Chart B

	Direct One-Way Clutch		Low One-Way Clutch		Engine Braking
	Drive	Coast	Drive	Coast	

Reverse	H ^a	NE ^b	NE ^b	NE ^b	NO
1st	H ^a	NE ^b	H ^a	NE ^b	NO
2nd	OR ^c	OR ^c	H ^a	NE ^b	NO
3rd	H ^a	NE ^b	OR ^c	OR ^c	NO
4th	H ^a	NE ^b	OR ^c	OR ^c	NO
5th	OR ^c	OR ^c	OR ^c	OR ^c	YES
1st ^d	H ^a	NE ^b	H ^a	NE ^b	YES
2nd ^d	OR ^c	OR ^c	H ^a	NE ^b	YES
3rd ^d	H ^a	NE ^b	OR ^c	OR ^c	YES
4th ^d	H ^a	NE ^b	OR ^c	OR ^c	YES
Manual 3rd	H ^a	NE ^b	OR ^c	OR ^c	YES
Manual 2nd	OR ^c	OR ^c	H ^a	NE ^b	YES
Manual 1st	H ^a	NE ^b	H ^a	NE ^b	YES

^a H = Hold

^b NE = No effect

^c OR = Overrunning

^d D Position ((D) 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)	758-1,045 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	2,678-3,130
Mustang	4.6L	2,556-3,014

Torque Specifications

Description	Nm	lb-ft	lb-in
Band adjustment screw ^a	—	—	—
Case-to-center support screw	11	—	97
Engine-to-transmission retaining bolts	48	35	—
Extension housing screws and studs	30	22	—
Flexplate cover	35	26	—
Fluid level indicator plug-to-drain pipe assembly	10	—	89
Fluid pan drain plug	26	19	—
Fluid pump housing screws ^a	—	—	—

Locknut for band adjustment	54	40	—
Main control valve body-to-case screws ^a	—	—	—
Manual control lever shaft nut	48	35	—
Manual control valve detent spring-to-case screw	10	—	89
Output shaft-to-flange nut	130	96	—
Pressure tap plug to case	13	—	115
Pump assembly-to-case screws ^a	—	—	—
Reverse servo assembly-to-case screws ^a	—	—	—
Separator-to-main control screws	7	—	62
Selector lever cable bracket screws	28	21	—
Solenoid body-to-case screws ^a	—	—	—
Speed sensor-to-case screws	14	—	124
Starter motor cable	13	—	115
Starter motor flange screws	25	18	—
Starter motor wire	6	—	53
Torque converter adapter plate nuts to converter	44	32	—
Torque converter adapter plate-to-flexplate nut	44	32	—
Transmission cooler tube bracket nut	25	18	—
Transmission cooler tube fitting to case	47	35	—
Transmission cooler tube nut-to-case fitting	40	30	—
Transmission crossmember-to-floor pan screws	63	46	—
Transmission fluid filter-to-case screws	10	—	89
Transmission fluid pan-to-case screws ^a	—	—	—
Transmission insulator-to-extension housing center screw	70	52	—
Transmission output shaft flange bolts	103	76	—
Transmission Range (TR) sensor-to-case screws ^a	—	—	—
Vehicle harness-to-solenoid body screw	5	—	44

^a Refer to the procedure in this section.
