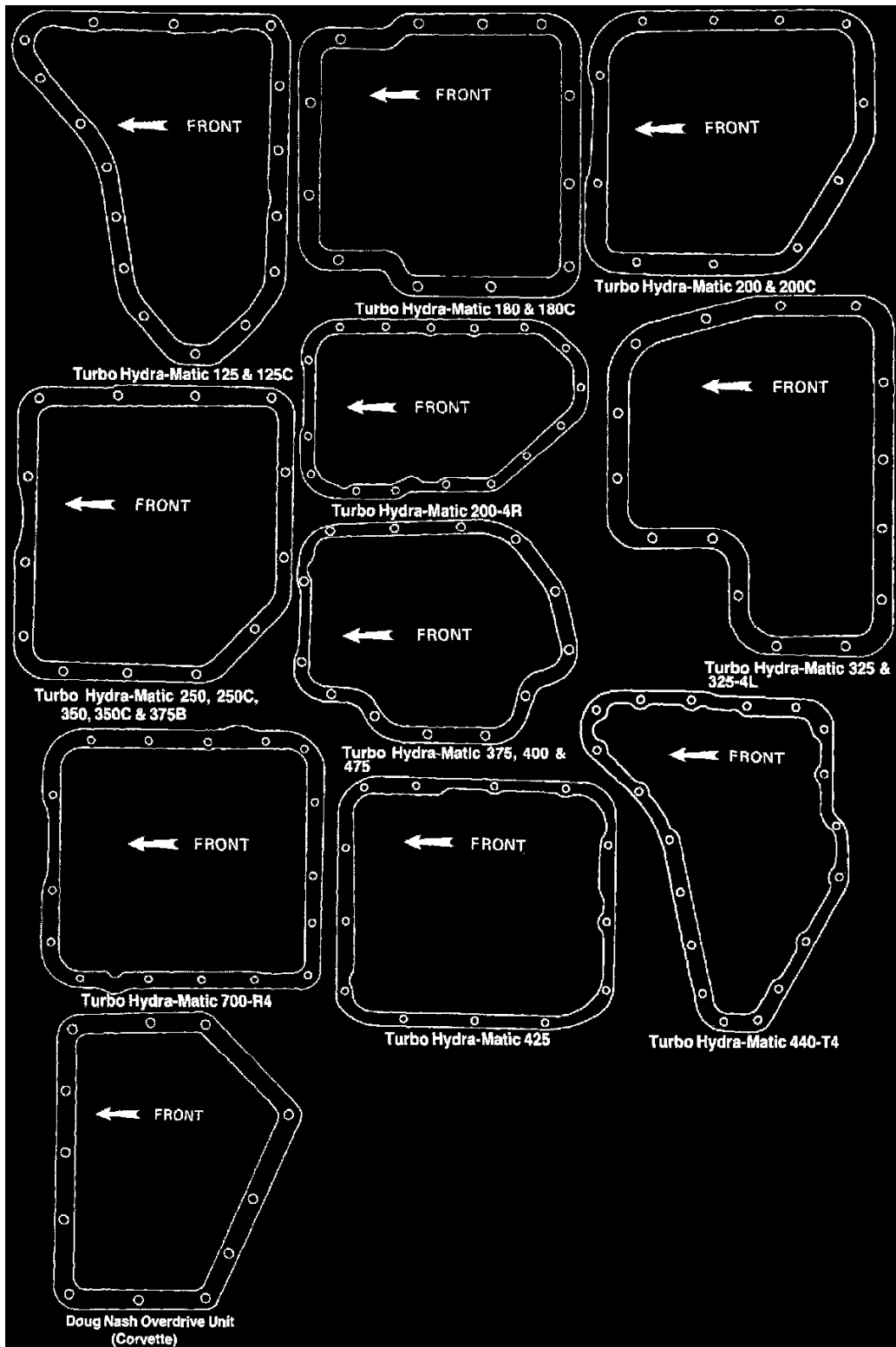


Transmission and Drivetrain: Specifications

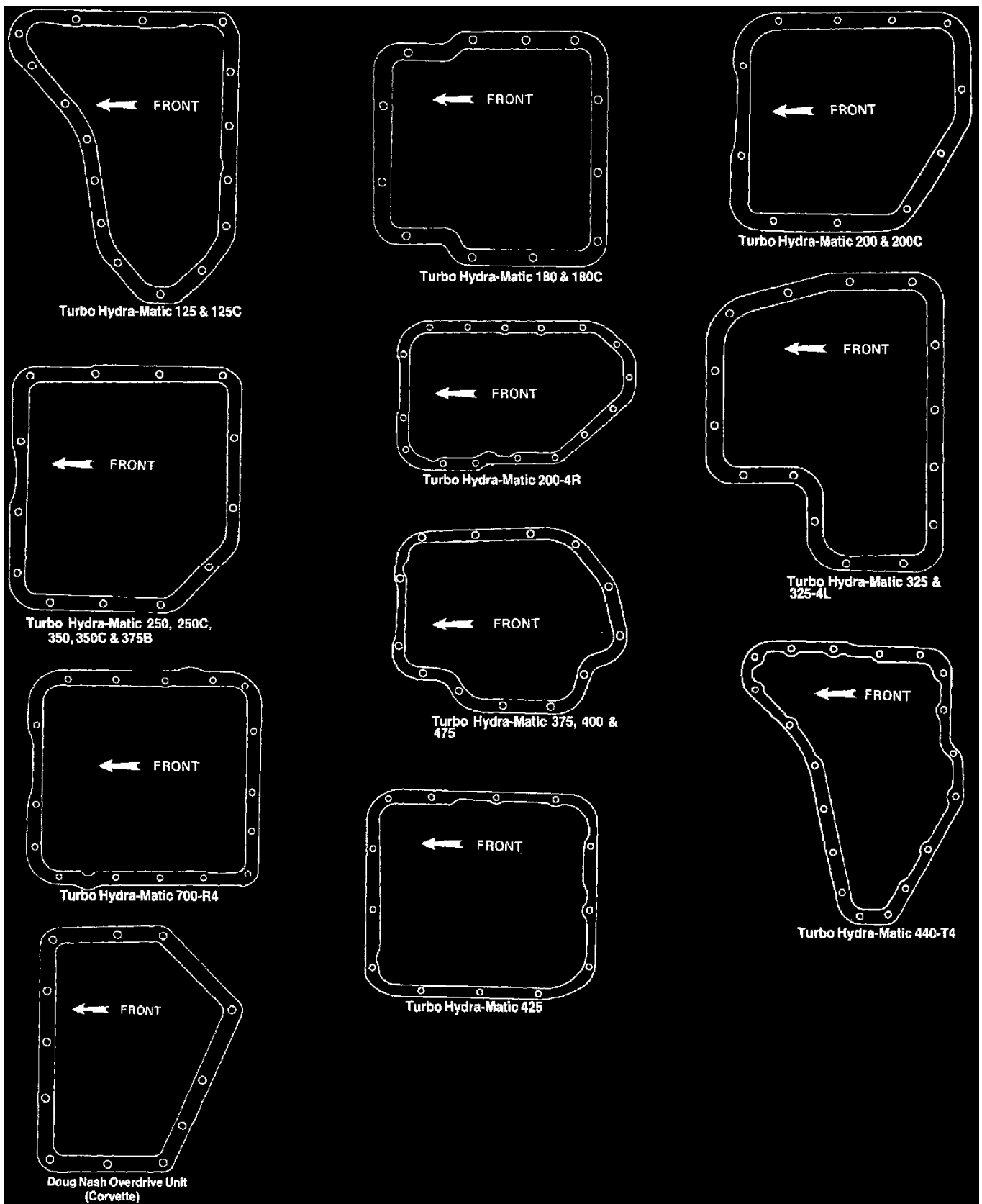
Application and Identification

Transmission Identification

Visually Inspect Transmission Type For Proper Application



Transmission Identification, Pan Configuration



Transmission Identification/Pan Configuration

Torque Specifications

Component	Torque/Ft. Lbs.
Accumulator Cover To Case	8
Auxiliary Valve Body To Case	8
Bellhousing To Case	55
Case Extension To Case	26

Connector Cooler Pipe	28
Detent Spring To Valve Body	18
FWD Accumulator Cover To Valve Body	8
Manual Linkage	17
Manual Shaft To Inside Detent Lever	23
Oil Passage Cover To Auxiliary Valve Body	8
Park Brake Bracket To Case	23
Pressure Control Solenoid To Valve Body	8
Pressure Plugs 1/8-27	8
Pressure Plugs 1/4-18	18
Pressure Switches	8
Pump Assembly To Case	18
Pump Cover To Body	18
Solenoid Assembly To Case	8
Solenoid Assembly To Pump	8
Spacer Plate Support To Case	8
Transmission Oil Pan To Case	8
Valve Body To Case	8
Vehicle Speed Sensor Retainer	8

Design and Clearance Specifications

4L60-E RPO M30

1-2, 2-3 AND 3-4 SHIFT SPEEDS																												
MODEL	TPS in %	1-2 SHIFT SPEED IN % TPS ±3 MPH										2-3 SHIFT SPEED IN % TPS ±4 MPH										3-4 SHIFT SPEED IN % TPS ±1.5 MPH						
		10	15	20	25	30	35	40	45	50	10	15	20	25	30	35	40	45	50	10	15	20	25	30	35	40	45	50
ABW	MPH	13	17	22	25	28	30	32	34	36	24	33	41	48	54	58	61	65	69	43	43	60	66	78	86	-	-	-
AMW	MPH	14	16	20	24	28	28	30	32	34	24	30	38	44	50	53	57	60	64	43	43	55	62	70	78	-	-	-
ANW	MPH	14	16	20	24	28	28	30	32	34	24	30	38	44	50	53	57	60	64	43	43	55	62	70	78	-	-	-
APW	MPH	14	16	20	24	28	28	30	32	34	24	30	38	44	50	53	57	60	64	43	43	55	62	70	78	-	-	-
AVW	MPH	13	17	22	25	28	30	32	34	36	24	33	41	48	54	58	61	65	69	43	43	60	66	78	86	-	-	-
AWW	MPH	14	16	20	23	25	28	30	32	34	24	30	38	44	50	53	57	60	64	43	43	55	62	70	78	-	-	-
AYW	MPH	14	16	20	24	26	28	30	32	34	24	30	38	45	50	52	54	57	59	41	43	49	54	62	71	-	-	-
AZW	MPH	14	17	22	26	28	33	35	37	37	24	33	41	48	54	58	62	66	71	43	43	60	69	78	87	-	-	-

FINAL DRIVE / SPROCKETS RATIOS AND SHIFT SPEEDS															
MODEL	FINAL DRIVE	RATIOS			1-2 MIN THROTTLE	2-3 MIN THROTTLE	3-4 MIN THROTTLE	3-2 DET DOWNSHIFT (Over 50 % TPS)	2-1 DET DOWNSHIFT (Over 28 % TPS)	1-2 W.O.T. (100 % TPS)	2-3 W.O.T. (100 % TPS)	3-4 W.O.T. (100 % TPS)	4-3 COAST DOWN	3-2 COAST DOWN	2-1 COAST DOWN
		SPROCKETS*	OVERALL												
ABW	3.08	37/53	2.73	12	22	43	74	29/35	43	80	-	39	19	9	
AMW	3.33	37/53	2.97	12	22	43	67	29/31	39	76	-	39	19	9	
ANW	3.33	37/53	2.97	12	22	43	67	31	39	76	-	39	19	9	
APW	3.33	37/53	2.97	12	22	43	67	31	39	76	-	39	19	9	
AVW	3.08	37/53	2.73	12	22	43	74	29/35	43	80	-	39	19	9	
AWW	3.33	37/53	2.97	12	22	43	67	31	39	76	-	39	19	9	
AYW	3.33	35/55	3.33	12	22	41	62	27	34	70	-	39	19	9	
AZW	3.08	37/53	2.73	12	22	43	74	35	43	80	-	39	19	9	

1-2, 2-3 AND 3-4 SHIFT SPEEDS

MODEL	1-2 SHIFT SPEED IN % TPS ±3 MPH										2-3 SHIFT SPEED IN % TPS ±4 MPH										3-4 SHIFT SPEED IN % TPS ±5 MPH									
	10	15	20	25	30	35	40	45	50	55	10	15	20	25	30	35	40	45	50	55	10	15	20	25	30	35	40	45	50	
BTW	14	17	20	23	27	29	31	34	36	24	30	35	39	44	49	51	53	56	45	50	58	65	79	-	-	-	-			
BYW	12	17	21	23	25	28	31	34	36	24	29	34	39	44	47	50	53	56	45	49	52	55	60	-	-	-	-			
CLW	13	16	20	23	27	28	31	34	36	24	30	35	39	44	48	50	53	56	45	49	56	65	79	-	-	-	-			
CSW	13	16	20	23	26	28	31	34	36	22	29	35	39	42	47	49	52	56	45	49	54	67	80	-	-	-	-			
CTW	12	17	21	23	25	28	31	34	36	24	29	34	39	44	47	50	53	56	45	46	52	65	80	-	-	-	-			
CXW	14	17	20	23	27	29	31	34	36	24	30	35	39	44	49	51	53	56	45	50	58	65	79	-	-	-	-			
CZW	13	17	19	21	23	25	28	30	32	23	27	31	35	40	44	46	49	51	48	49	57	65	80	-	-	-	-			
PHW	13	17	19	21	23	25	28	30	32	23	27	31	35	40	44	46	49	51	48	49	57	65	80	-	-	-	-			
WAW	14	17	21	23	27	29	31	34	36	24	30	35	39	45	48	51	53	56	45	49	58	65	80	-	-	-	-			
YLW	13	17	21	23	27	29	31	34	36	24	29	35	39	44	48	50	53	56	45	46	56	65	81	-	-	-	-			
YMW	13	18	20	23	27	28	31	34	36	24	30	35	39	44	48	50	53	56	45	49	56	65	79	-	-	-	-			
YRW	13	18	20	23	26	28	31	34	36	22	29	35	39	42	47	49	52	56	45	49	54	67	80	-	-	-	-			
YZW	13	16	20	23	26	28	31	34	36	22	29	35	39	42	47	49	52	56	45	49	54	67	80	-	-	-	-			

FINAL DRIVE / SPROCKETS RATIOS AND SHIFT SPEEDS

MODEL	RATIOS			1-2 MIN THROTTLE	2-3 MIN THROTTLE	3-4 MIN THROTTLE	3-2 DET DOWNSHIFT (Over 83 % TPS)	2-1 DET DOWNSHIFT (Over 90 % TPS)	1-2 W.O.T. (100 % TPS)	2-3 W.O.T. (100 % TPS)	3-4 W.O.T. (100 % TPS)	4-3 COAST DOWN	3-2 COAST DOWN	2-1 COAST DOWN
	FINAL DRIVE	SPROCKETS*	OVERALL											
BTW	3.33	37/33	2.97	11	20	45	62	35	39	74	-	40	16	10
BYW	3.06	35/35	3.06	11	20	45	62	35	39	74	-	40	19	10
CLW	2.84	35/35	2.84	11	20	45	62	35	39	74	-	40	19	10
CSW	3.06	35/35	3.06	11	20	45	62	35	39	74	-	40	19	10
CTW	3.06	35/35	3.06	11	20	45	62	35	39	74	-	40	19	10
CXW	3.33	37/33	2.97	11	20	45	62	35	39	74	-	40	16	10
CZW	3.33	37/33	2.97	11	19	45	62	35	37	64	-	40	18	10
PHW	3.33	37/33	2.97	11	19	45	62	35	37	64	-	40	18	10
WAW	3.06	35/35	3.06	11	20	45	62	35	39	74	-	40	16	10
YLW	2.84	35/35	2.84	11	20	45	62	35	39	74	-	40	19	10
YMW	2.84	35/35	2.84	11	20	45	62	35	39	74	-	40	19	10
YRW	2.84	35/35	2.84	11	20	45	62	35	39	74	-	40	19	10
YZW	3.06	35/35	3.06	11	20	45	62	35	39	74	-	40	19	10

1-2, 2-3 AND 3-4 SHIFT SPEEDS

MODEL	1-2 SHIFT SPEED IN % TPS ±3 MPH										2-3 SHIFT SPEED IN % TPS ±4 MPH										3-4 SHIFT SPEED IN % TPS ±5 MPH									
	10	15	20	25	30	35	40	45	50	55	10	15	20	25	30	35	40	45	50	55	10	15	20	25	30	35	40	45	50	
CMW	9	14	18	17	19	21	23	25	27	20	22	25	31	37	43	47	50	54	32	35	39	44	50	56	59	65	72			
CWW	11	14	16	17	19	22	24	27	29	22	23	27	31	34	37	41	45	48	32	34	39	43	50	60	70	-	-			

FINAL DRIVE / SPROCKETS RATIOS AND DOWNSHIFT SPEEDS

MODEL	RATIOS			1-2 MIN THROTTLE	2-3 MIN THROTTLE	3-4 MIN THROTTLE	3-2 DET DOWNSHIFT (Over 30 % TPS)	2-1 DET DOWNSHIFT (Over 39 % TPS)	1-2 W.O.T. (100 % TPS) RPM	2-3 W.O.T. (100 % TPS) RPM	3-4 W.O.T. (100 % TPS) MPH	4-3 COAST DOWN MPH	3-2 COAST DOWN MPH	2-1 COAST DOWN MPH
	FINAL DRIVE	SPROCKETS*	OVERALL											
CMW	3.33	35/35	3.33	9	19	32	48	8	5250	5150	36	67	31	17
CWW	3.06	33/27	3.43	7	22	22	71	8	6200	6000	41	80	21	17

1995 HYDRA-MATIC 4T60-E SHIFT SPEED CHART

UPSHIFT SPEED INFORMATION

MODEL	1-2 SHIFT (+/- 3 MPH)					2-3 SHIFT (+/- 4 MPH)					3-4 SHIFT (+/- 5 MPH)			
	MINIMUM THROTTLE	10% TPS	25% TPS	50% TPS	100% TPS	MINIMUM THROTTLE	10% TPS	25% TPS	50% TPS	100% TPS	MINIMUM THROTTLE	10% TPS	25% TPS	50% TPS
ACW	11	13	22	38	39	20	24	39	56	74	45	45	65	-
AFW	9	12	20	30	39	20	22	32	54	74	32	34	48	72
AJW	10	14	21	31	40	22	24	36	57	75	35	36	47	74
ASW	11	13	22	38	39	20	24	39	56	74	45	45	65	-
ATW	12	13	26	38	43	22	24	48	70	80	43	43	68	-
BFW	11	13	22	36	39	20	24	39	56	74	45	45	65	-
BKW	11	13	22	38	39	20	24	39	56	74	45	45	65	-
BLW	11	13	22	36	39	20	24	39	56	74	45	45	65	-
BXW	11	13	22	36	39	20	24	39	56	74	45	45	65	-
CAW	11	13	22	36	39	20	24	39	56	74	45	45	65	-
KUW	11	13	22	36	39	20	24	39	56	74	45	45	65	-
PAW	10	14	21	31	40	22	24	36	57	75	35	36	47	74
PBW	11	11	17	29	41	22	22	31	46	80	32	32	43	-
PCW	9	10	17	28	40	15	17	29	52	77	22	24	38	71
PMW	11	13	22	36	39	20	24	39	56	74	45	45	65	-
WFW	9	11	19	31	39	20	22	34	57	74	32	34	47	72
YDW	11	13	22	36	39	20	24	39	56	74	45	45	65	-
YMW	11	13	22	36	39	20	24	39	56	74	45	45	65	-
YNW	11	14	25	38	41	17	22	41	59	74	38	40	50	-
YZW	11	13	22	36	39	20	24	39	56	74	45	45	65	-

TRANSAXLE USAGE AND DOWNSHIFT SPEED INFORMATION

MODEL	SERIES	ENGINE			RATIOS			DOWNSHIFTS (+/- 4 MPH)				
		DISP.	RPO	VIN	OVER-ALL	FINAL DRIVE	SPROCKETS DRIVE/DRIVEN	4-3 COAST	3-2 COAST	2-1 COAST	3-2 DETENT	2-1 DETENT
ACW	C, H	3.8L	L36	K	3.06	3.06	35/35	40	19	10	62	35
AFW	W	3.1L	L82	M	3.33	3.33	35/35	31	19	8	60	30
AJW	A	3.1L	L82	M	2.97	3.33	37/33	33	20	8	68	31
ASW	C, H	3.8L	L36	K	2.84	2.84	35/35	40	19	10	62	35
ATW	K	4.9L	L26	B	2.73	3.06	37/33	39	19	8	75	36
BFW	G	3.8L	L67	1	2.93	3.29	37/33	40	16	10	62	35
BKW	H	3.8L	L36	K	3.06	3.06	35/35	40	19	10	62	35
BLW	W	3.8L	L27	L	3.06	3.06	35/35	40	19	10	62	35
BXW	H	3.8L	L36	K	3.06	3.06	35/35	40	19	10	62	35
CAW	G	3.8L	L36	K	3.05	3.05	35/35	40	19	10	62	35
KUW	U	3.8L	L27	L	3.06	3.06	35/35	40	16	10	62	35
PAW	A	3.1L	L82	M	2.97	3.33	37/33	33	20	8	68	31
PBW	W	3.4L	LQ1	X	3.43	3.06	33/37	30	19	9	70	24
PCW	N	2.3L	LD2	D	3.68	3.29	33/37	18	13	8	44	15
PMW	U	3.8L	L27	L	3.06	3.06	35/35	40	16	10	62	35
WFW	L, N	3.1L	L82	M	2.93	3.29	37/33	31	19	8	69	30
YDW	C, H	3.8L	L67	1	2.97	3.33	37/33	40	16	10	62	35
YMW	H	3.8L	L27	L	2.84	2.84	35/35	40	19	10	62	35
YNW	H	3.8L	L67	1	2.97	3.33	37/33	34	16	10	62	35
YZW	H	3.8L	L27	L	3.06	3.06	35/35	40	19	10	62	35

NOTES:

- SPEEDS ARE INDICATED IN MILES PER HOUR (MPH). KM/h = MPH X 1.609.
- UPSHIFT SPEEDS ARE BASED ON THROTTLE POSITION SENSOR DATA AS PROVIDED BY THE TECH 1 OR OTHER SCAN TOOLS THAT GIVE THROTTLE OPENING PERCENTAGE (%). THROTTLE ANGLE IN DEGREES = % TPS X 0.9
- THE DETENT DOWNSHIFT SPEEDS ARE THE HIGHEST SPEEDS THAT A DETENT DOWNSHIFT WILL OCCUR (OVER 90% TPS).

Shift Speed Chart

Verify the transmission type in vehicle is correct option

Type: Four speed rear wheel drive, electronically controlled automatic overdrive transmission with a torque converter clutch.

Engine Range:

2.2L

5.7L

Maximum Engine Torque: 350 lb-ft (474 Nm)

Maximum Gearbox Torque: 670 lb-ft (910 Nm)

Gear Ratios:

1st 3.059

2nd 1.625

3rd 1.000

4th 0.696

Rev 2.294

Maximum Shift Speed:

1-2 6000 rpm

2-3 6000 rpm

3-4 6000 rpm

Maximum Gross

Vehicle Weight: 8600 lb (3900 kg)

7-Position Quadrant:

P, R, N, OD, D, 2,1

P, R, N, OD, 3, 2,1

Case Material: Die cast aluminum

Control Systems:

Shift Pattern - (2) Two-way on/off solenoids

Shift Quality - Force motor control

Torque Converter - Pulse width modulated solenoid control

Converter Size: 245 mm, 298 mm & 300 mm (reference)

(Diameter of Torque Converter Turbine)

Fluid Type: DEXRON® III

Transmission Weight:

Dry- 66kg (146lb)

Wet - 73 kg (162 lb)

Fluid Capacity (Approximate):

Dry - 7.9L (8.4 qt)

(W / 245 mm)

1 0.6L (11.2 qt)

(W / 298 mm)

Towing Capacity: 6,130 kg (13,000 lb)

Maximum Gross Combined Vehicle Weight

Pressure Taps Available: Line Pressure

Assembly Site: Toledo, OH

Applications:

Passenger Car:

F-car

^Chevrolet Camaro

^Pontiac Firebird

Y-car

^ Chevrolet Corvette

Truck:

Oldsmobile

^ Bravada

Chevrolet GMC

^ C/K Pickup

^ Sierra

^ Full-size Van

^ Full-size Van

^ S-b Pickup

^ S-15 Pickup

^ S-b Blazer

^ S-15 Jimmy

^ Tahoe

^ Safari Van

^ Astro Van

^ Yukon

^ Suburban

^ Su15urban

5 - Speed Transmission

Component	Torque/Ft. Lbs
Actuator Cylinder Nuts	15
Clutch Master Cylinder Nuts	20
Flywheel Housing Bolts	55
Flywheel Housing Cover Bolts	6
Pressure Plate To Flywheel [01]	15
Shift Control Lever Bolt	13
Transmission Brace Nut & Bolt	37
Transmission To Flywheel Housing Bolt	55

[01] Plus an additional 30°

6 - Speed Transmission

Component	Torque/Ft. Lbs
Actuator Cylinder Nuts	15
Clutch Master Cylinder Nuts	20
Flywheel Housing Bolts	35
Flywheel Housing Cover Bolts	6

Pressure Plate To Flywheel	22
Shift Control Lever Bolt	18
Transmission To Flywheel Housing Bolt	26

ZF S6-40

Extension Housing Bolts	18 ft. lbs.
Counter Shaft Nut	162 lbs. ft.

Standard Axle

Axle Code	
Standard	9HM
Gear Ratio	3.23
Ring Gear Diameter	7.62

Limited Slip Axle

Axle Code	
Limited Slip	2PH
Gear Ratio	2.73
Ring Gear Diameter	7.62