



Technical Service Information

THM 4T60-E 1992 WIRING HARNESS & SPROCKET RATIO IDENTIFICATION

This bulletin will give you information on sprocket ratios, final drive ratios, shift speed charts, and wiring harness configuration on all 1992 model ,THM 4T60-E transaxles.

1992 HYDRA-MATIC 4T60-E SHIFT SPEED CHARTS 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									
	TPS IN %	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		
CWW	MPH	9	11	15	17	21	25	28	30	32	**	**	**	**	**	42	45	48	51	22	22	28	33	38	62	78	-	-		

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 90 % 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											
CWW	3.06	33/37	3.43	7	22	22	71	8	6200 RPM	6000 RPM	-	21	17	6

NOTES:

1. ALL SPEEDS INDICATED ARE IN MILES PER HOUR. CONVERSION TO KM/h = MPH \times 1.609.
 2. SHIFT POINTS WILL VARY SLIGHTLY DUE TO ENGINE LOAD AND VEHICLE OPTIONS.
 3. THE UPSHIFT SPEEDS FOR 1-2, 2-3 AND 3-4 ARE BASED ON THROTTLE POSITION SENSOR (TPS) DATA AS A REFERENCE - USE A TECH 1* OR OTHER SCAN TOOL THAT GIVES PERCENTAGE OF THROTTLE OPENING INSTEAD OF VOLTAGE TO MONITOR THIS DATA.
 4. THE 3-2 AND 2-1 DETENT DOWNSHIFTS SPEEDS ARE THE MAXIMUM SPEEDS THAT A 3-2 OR 2-1 DETENT DOWNSHIFT (OVER 90 % TPS) WILL OCCUR.
 5. THE 1-2, 2-3 AND 3-4 WIDE OPEN THROTTLE (W.O.T.) SHIFT VALUES ARE GIVEN IN R.P.M.'s INSTEAD OF MPH. (THE P.C.M. USES R.P.M. FOR THE W.O.T. SHIFTS - THE MPH WILL VARY DEPENDING ON TORQUE CONVERTER VARIATION.)
- * DESIGNATES THE NUMBER OF TEETH ON THE DRIVE/DRIVEN SPROCKETS, RESPECTIVELY.
** DESIGNATES THAT THE MINIMUM THROTTLE WILL BE A 2-4 UPSHIFT, NOT A 2-3 UPSHIFT.

3.4L CHEVROLET ENGINE MODELS

Figure 1

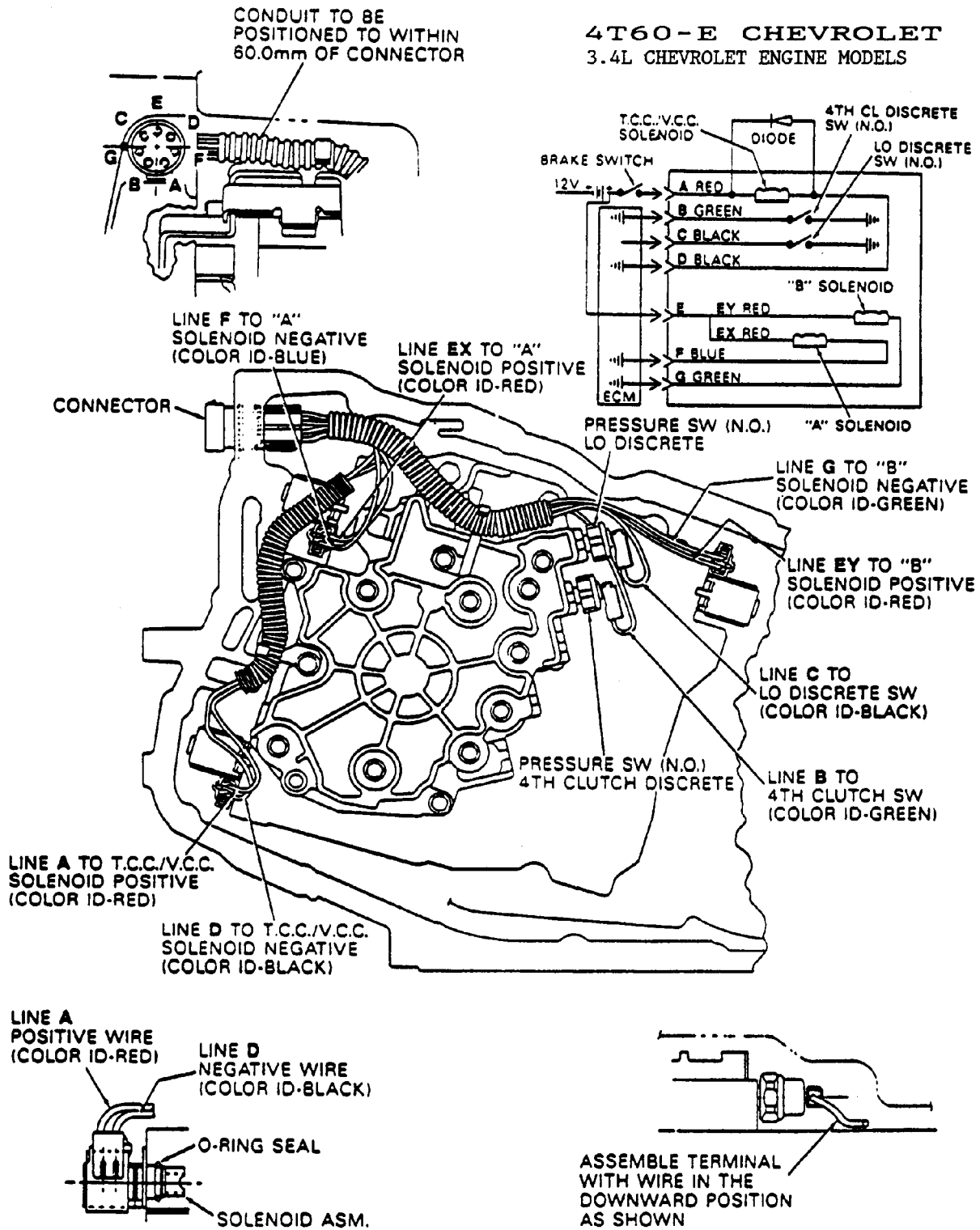


Figure 2

1992 HYDRA-MATIC 4T60-E SHIFT SPEED CHART 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									
	TPS IN %	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		
BTW	MPH	14	17	20	23	27	29	31	34	36	24	30	35	39	44	49	51	53	56	45	50	58	65	79	-	-	-	-		
BYW	MPH	12	17	21	23	25	28	31	34	36	24	29	34	39	44	47	50	53	56	45	46	52	65	80	-	-	-	-		
CLW	MPH	13	16	20	23	27	28	31	34	36	24	30	35	39	44	48	50	53	56	45	49	56	65	79	-	-	-	-		
CSW	MPH	13	16	20	23	26	28	31	34	36	22	29	35	39	42	47	49	52	56	45	49	54	67	80	-	-	-	-		
CTW	MPH	12	17	21	23	25	28	31	34	36	24	29	34	39	44	47	50	53	56	45	46	52	65	80	-	-	-	-		
CXW	MPH	14	17	20	23	27	29	31	34	36	24	30	35	39	44	49	51	53	56	45	50	58	65	79	-	-	-	-		
CZW	MPH	13	17	19	21	23	25	28	30	32	23	27	31	35	40	44	46	49	51	46	49	57	65	80	-	-	-	-		
PHW	MPH	13	17	19	21	23	25	28	30	32	23	27	31	35	40	44	46	49	51	46	49	57	65	80	-	-	-	-		
WAW	MPH	14	17	21	23	27	29	31	34	36	24	30	35	39	45	48	51	53	56	45	49	58	65	80	-	-	-	-		
YLW	MPH	13	17	21	23	27	28	31	34	36	24	29	35	39	44	48	50	53	56	45	46	56	65	81	-	-	-	-		
YMW	MPH	13	16	20	23	27	28	31	34	36	24	30	35	39	44	48	50	53	56	45	49	56	65	79	-	-	-	-		
YPW	MPH	13	16	19	22	25	26	28	30	31	24	30	34	37	42	47	48	51	53	45	49	58	65	80	-	-	-	-		
YZW	MPH	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 90 % 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
YPW	3.33	35/35	3.33	11	20	45	62	35	35	70	-	40	19	10
YZW	3.06	35/35	3.06	11	20	45	62	35	39	74	-	40	19	10

NOTES:

1. ALL SPEEDS INDICATED ARE IN MILES PER HOUR. CONVERSION TO KM/h = MPH \times 1.609.
 2. SHIFT POINTS WILL VARY SLIGHTLY DUE TO ENGINE LOAD AND VEHICLE OPTIONS.
 3. THE UPSHIFT SPEEDS FOR 1-2, 2-3 AND 3-4 ARE BASED ON THROTTLE POSITION SENSOR (TPS) DATA AS A REFERENCE - USE A TECH 1™ OR OTHER SCAN TOOL THAT GIVES PERCENTAGE OF THROTTLE OPENING INSTEAD OF VOLTAGE TO MONITOR THIS DATA.
 4. THE 1-2, 2-3 AND 3-4 SHIFT SPEED CHART INFORMATION IS BASED ON PERCENTAGE OF THROTTLE OPENING.
 5. THE 3-2 AND 2-1 DETENT DOWNSHIFT SPEEDS ARE THE MAXIMUM SPEEDS THAT A 3-2 OR 2-1 DETENT DOWNSHIFT (OVER 90 % TPS) WILL OCCUR. EUROPE AND JAPAN EXPORT VEHICLES WILL HAVE THE LOWER 2-1 DETENT VALVES.
- * DESIGNATES THE NUMBER OF TEETH ON THE DRIVE/DRIVEN SPROCKETS, RESPECTIVELY

3.8L BUICK ENGINE MODELS

Figure 3

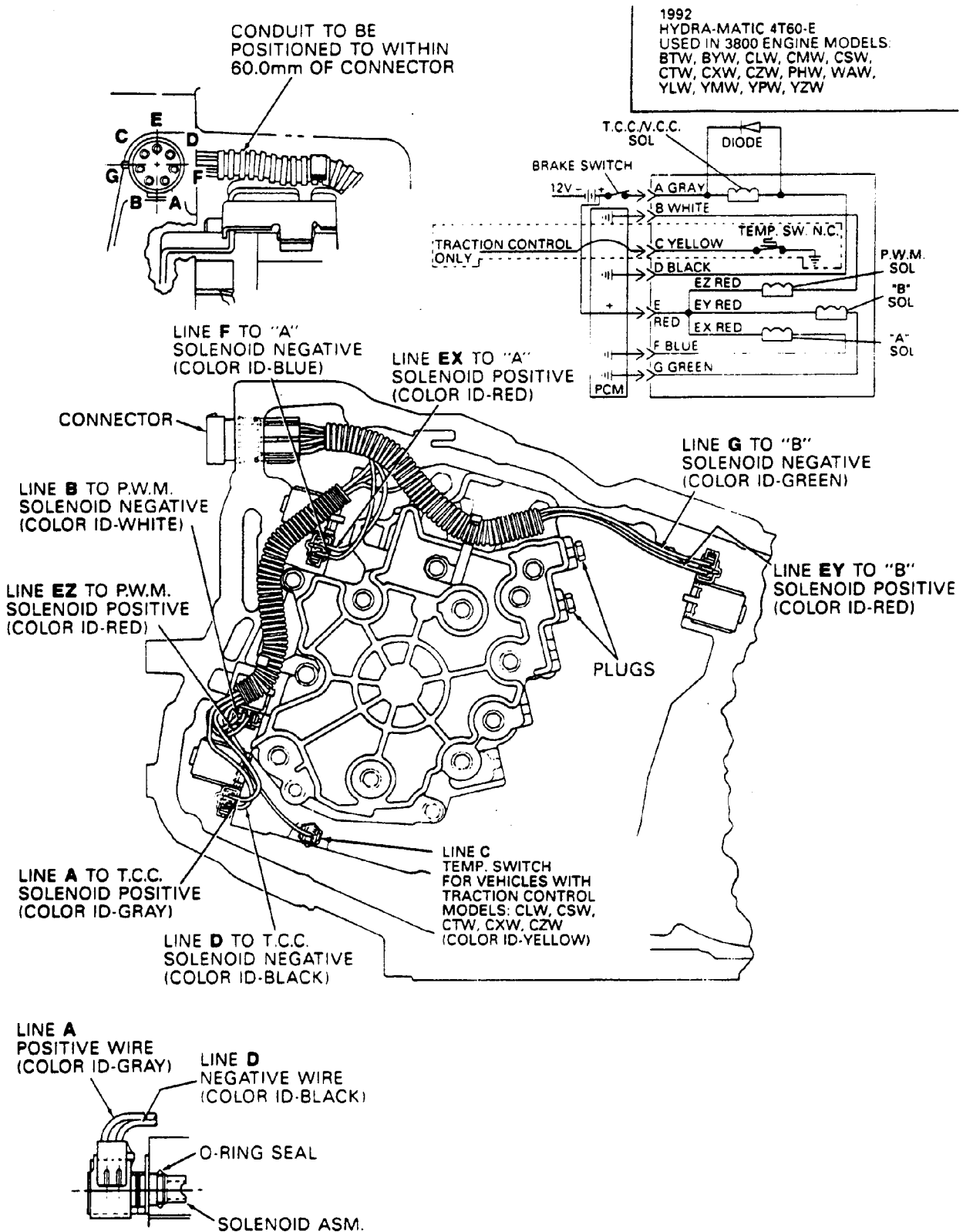


Figure 4

1992 HYDRA-MATIC 4T60-E SHIFT SPEED CHART 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									
	TPS IN %	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	26	28	30	32	34	36	24	33	41	48	54	58	61	65	69	43	43	60	68	78	86	-	-	-		
AMW	MPH	14	16	20	24	26	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	26	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	26	28	30	32	34	24	30	38	44	50	53	57	60	64	43	43	55	62	70	78	-	-	-		
AVW	MPH	13	17	22	26	28	30	32	34	36	24	33	41	48	54	58	61	65	69	43	43	60	68	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	35	33	35	37	24	33	41	48	54	58	62	66	71	43	43	60	69	78	87	-	-	-		

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 90 % 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											
ABW	3.06	37/33	2.73	12	22	43	74	29/35	43	80	-	39	19	9
AMW	3.33	37/33	2.97	12	22	43	67	29/31	39	76	-	39	19	9
ANW	3.33	37/33	2.97	12	22	43	67	31	39	76	-	39	19	9
APW	3.33	37/33	2.97	12	22	43	67	31	39	76	-	39	19	9
AVW	3.06	37/33	2.73	12	22	43	74	29/35	43	80	-	39	19	9
AWW	3.33	37/33	2.97	12	22	43	67	31	39	76	-	39	19	9
AYW	3.33	35/35	3.33	12	22	41	62	27	34	70	-	39	19	9
AZW	3.06	37/33	2.73	12	22	43	74	35	43	80	-	39	19	9

NOTES:

- ALL SPEEDS INDICATED ARE IN MILES PER HOUR. CONVERSION TO KM/h = MPH \times 1.609.
- SHIFT POINTS WILL VARY SLIGHTLY DUE TO ENGINE LOAD AND VEHICLE OPTIONS.
- THE UPSHIFT SPEEDS FOR 1-2, 2-3 AND 3-4 ARE BASED ON THROTTLE POSITION SENSOR (TPS) DATA AS A REFERENCE - USE A TECH 1™ OR OTHER SCAN TOOL THAT GIVES PERCENTAGE OF THROTTLE OPENING INSTEAD OF VOLTAGE TO MONITOR THIS DATA.
- THE 1-2, 2-3 AND 3-4 SHIFT SPEED CHART INFORMATION IS BASED ON PERCENTAGE OF THROTTLE OPENING. THE CONVERSION FACTOR FOR THE OUTPUT OF THE CADILLAC SELF-DIAGNOSTIC FEATURES FOR THE DRIVER INFORMATION CENTER (DIC) WOULD BE, PERCENT TPS \times 0.819 TO GET THROTTLE ANGLE DATA. REFER TO SECTION 8D.
- THE 3-2 AND 2-1 DETENT DOWNSHIFTS SPEEDS ARE THE MAXIMUM SPEEDS THAT A 3-2 OR 2-1 DETENT DOWNSHIFT (OVER 90 % TPS) WILL OCCUR. EUROPE AND JAPAN EXPORT VEHICLES WILL HAVE THE LOWER 2-1 DETENT VALVES.

* DESIGNATES THE NUMBER OF TEETH ON THE DRIVE/DRIVEN SPROCKETS, RESPECTIVELY.

4.9L CADILLAC ENGINE MODELS

Figure 5

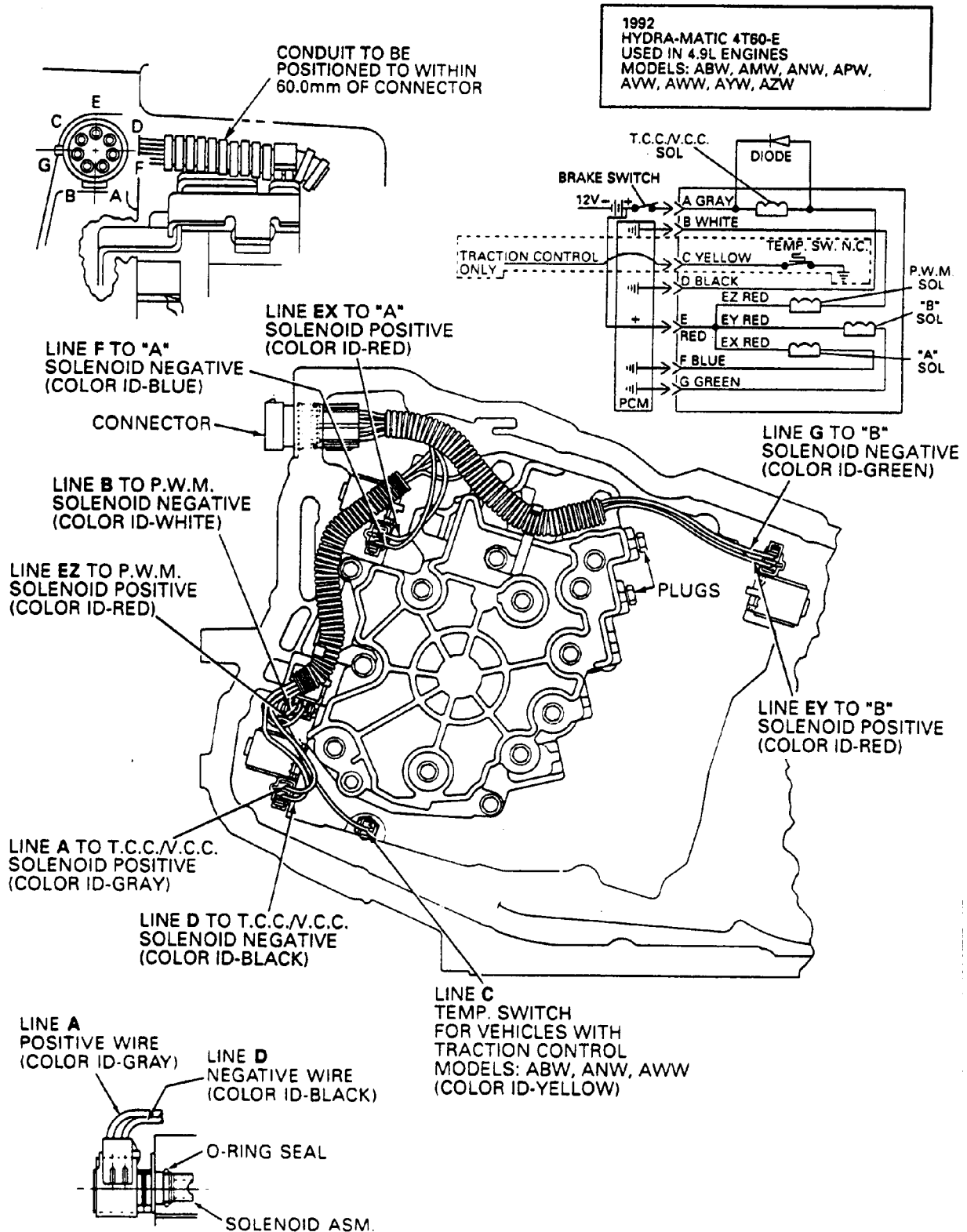


Figure 6