



ISSPRO 118mm and 5" Programmable Speedometer
 Microprocessor Aircore Version

GENERAL INFORMATION:

- Operating Voltage: 11 – 16 VDC
- Input: Magnetic sensor or AC generator
- Transient Protection: +100 V, -400 V
- Reverse Voltage Protected

CALIBRATION:

The ISSPRO Programmable Speedometer is calibrated (programmed) by setting a combination of ten switches found in the rear of the instrument. The odometer and pointer are electronically linked together and both are calibrated when the switches are properly set. Program before installing.

Note: the switch setting must be done with power "off". If power is left "on", changing the switch will have no effect on calibration until power is interrupted.

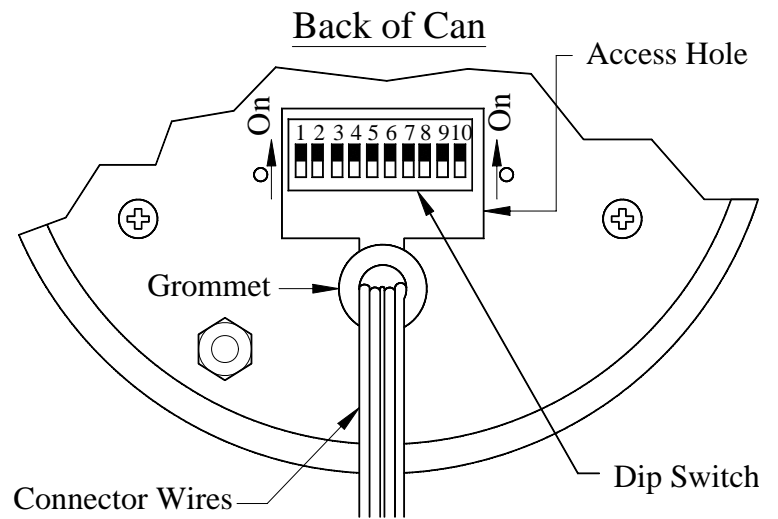
CALIBRATION PROCEDURE:

Calculate the "calibration number" from the appropriate formula below. (A minimum calibration number of 14820 is required to be within calibration range). Refer to the "CALIBRATION SWITCH SETTING" table with this number. Locate the row in which the calibration number is between the limits, then set the switches marked with an "0" to the "on" position (up).

EXAMPLE: Calibration number = 29644: From the table 29644 lies between 29580 and 29699, therefore, switches 4, 9, and 10 will be set to "on".

- (1) Front wheel mounted tone wheel:
**Calibration Number = # Slots in Tone Wheel X
 Tire Revs per Mile**
- (2) Tail Shaft mounted magnetic sensor:
**Calibration Number = Tire Revs per Mile X
 Differential Ratio X 16**
- (3) Sender driven from transmission cable drive:
**Calibration Number = Cable Turns Per Mile x
 #Pulses per Sender Turn**

Note: For metric versions, substitute kilometers for miles in the above formulas. Multiply the resulting value by 0.621 to obtain final calibration number.



If the # of cable turns per mile is not known, follow this procedure: Obtain a ratio tester and correct drive tang for your transmission. With a steel tape measure, mark off 1/10th mile (528 ft.) in as straight of a line as possible. Mark start and stop lines with chalk or paint. Position the vehicle so that one of the wheels aligns with the start mark. Disconnect the speedometer cable at the transmission and install the ratio tester in its place. Secure the cables and reset the ratio tester. Drive the vehicle to the stop point positioning the selected wheel on the stop mark. The reading displayed on the ratio tester is the number of cable turns per mile if using an Engler "SAC-10". If using an SS White ratio tester (P/N 312-12175Y), multiply the reading by 10 to obtain the cable turns per mile.

FREQUENTLY USED SENDERS

#PULSES PER TURN

DATCON 4-D-C 71267	8 *
DIXSON SG201A, SG201A1, SG202	2 *
ENGLER 870-0588	15
ISSPRO R8970, R8940	30
KIENZLE-ARGO 8-161-237008	8 *
MOTOROLA 4-100 (7SG100), 4-111 (7SG100B)	30
ROCKWELL 240R02-001	30
SUN Model CP7643	6 *
SYNCHRO-START Minigen	30
TELEFLEX 9604276	8 *
VDO (Old Style Engler) ISSPRO 300092	4 *
ZEMCO 4710	8 *
ZEMCO 6314	5 *

*NOTE: These senders do not produce the minimum required # of pulses to be in calibration range when driven at 1000 turns per mile.

It may be necessary to change your sender to one that generates more pulses per rev such as an ISSPRO R8970.

INSTALLATION: Mount the speedo in the dash panel and connect the wires as described below:

RED – Connect to ignition switched power source.

BLACK – Connect to ground.

WHITE – Connect to sensor wire. (+)

GREEN – Connect to other sensor wire (-) Ground.

VIOLET – 2 speed axle (no connection if not used)

(Connection to positive gives correct MPH reading with 0.733 axle ratio change.

A 0.680 ratio available on special factory orders.)

INSTALLATION HINTS:

- 1.) When power is applied, the needle should go to mid scale then to the zero position. If it does not, there may be a bad connection in the “Hot” (red wire) or ground wire circuit. Check power to the meter by measuring with a voltmeter at the plug (meter leads on the pins that attach to the red and black wires). If there is power at the plug, the problem is in the gauge.
- 2.) Low voltage can cause inaccurate reading. If inaccuracy is suspected, measure voltage with vehicle operating and meter connected. This can be done by connecting a voltmeter to power source (i.e. fuse block, etc.) and/or piercing the red and black wire insulation with the meter leads.
- 3.) If speedo reads zero, then “jumps” to normal reading after a certain speed, adjust the sensor in closer to gear. (generators cannot be adjusted)

Note that "0" is Switch On, "1" is Switch Off

Calibration #		Calibration Switch Setting	Freq. at 60 MPH	Calibration #		Calibration Switch Setting	Freq. at 60 MPH	Calibration #		Calibration Switch Setting	Freq. at 60 MPH
From	To			From	To			From	To		
14820	14939	0011111000	248	21660	21779	1010110100	362	28500	28619	0111011100	479
14940	15059	1011111000	250	21780	21899	0110110100	364	28620	28739	1111011100	478
15060	15179	0111111000	252	21900	22019	1110110100	366	28740	28859	0000111100	480
15180	15299	1111111000	254	22020	22139	0001110100	368	28860	28979	1000111100	482
15300	15419	0000000100	256	22140	22259	1001110100	370	28980	29099	0100111100	484
15420	15539	1000000100	258	22260	22379	0101110100	372	29100	29219	1100111100	486
15540	15659	0100000100	260	22380	22499	1101110100	374	29220	29339	0010111100	488
15660	15779	1100000100	262	22500	22619	0011110100	376	29340	29459	1010111100	490
15780	15899	0010000100	264	22620	22739	1011110100	378	29460	29579	0110111100	492
15900	16019	1010000100	266	22740	22859	0111110100	380	29580	29699	1110111100	494
16020	16139	0110000100	268	22860	22979	1111110100	382	29700	29819	0001111100	496
16140	16259	1110000100	270	22980	23099	0000001100	384	29820	29939	1001111100	498
16260	16379	0001000100	272	23100	23219	1000001100	386	29940	30059	0010111100	500
16380	16499	1001000100	274	23220	23339	0100001100	388	30060	30179	1101111100	502
16500	16619	0101000100	276	23340	23459	1100001100	390	30180	30299	0011111100	504
16620	16739	1101000100	278	23460	23579	0010001100	392	30300	30419	1011111100	506
16740	16859	0011000100	280	23580	23699	1010001100	394	30420	30539	0111111100	508
16860	16979	1011000100	282	23700	23819	0110001100	396	30540	30659	1111111100	510
16980	17099	0111000100	284	23820	23939	0111000110	398	30660	30779	1000000010	512
17100	17219	1111000100	286	23940	24059	0001001100	400	30780	30899	0100000010	514
17220	17339	0000100100	288	24060	24179	1001001100	402	30900	31019	0100000010	516
17340	17459	1000100100	290	24180	24299	0101001100	404	31020	31139	1100000010	518
17460	17579	0100100100	292	24300	24419	1101001100	406	31140	31259	0010000010	520
17580	17699	1100100100	294	24420	24539	0011001100	408	31260	31379	1010000010	522
17700	17819	0010100100	296	24540	24659	1011001100	410	31380	31499	0110000010	524
17820	17939	1010100100	298	24660	24779	0111001100	412	31500	31619	1110000010	526
17940	18059	0110100100	300	24780	24899	1111001100	414	31620	31739	0001000010	528
18060	18179	1110100100	302	24900	25019	0000101100	416	31740	31859	1001000010	530
18180	18299	0001100100	304	25020	25139	1000101100	418	31860	31979	0101000010	532
18300	18419	1001100100	306	25140	25259	0100101100	420	31980	32099	1101000010	534
18420	18539	0101100100	308	25260	25379	1100101100	422	32100	32219	0011000010	536
18540	18659	1101100100	210	25380	25499	0010101100	424	32220	32339	1011000010	538
18660	18779	0011100100	312	25500	25619	1010101100	426	32340	32459	0111000010	540
18780	18899	1011100100	314	25620	25739	0110101100	428	32460	32579	1111000010	542
18900	19019	0111100100	316	25740	25859	1110101100	430	32580	32699	0000100010	544
19020	19139	1111100100	318	25860	25979	0001101100	432	32700	32819	1000100010	546
19140	19259	0000010100	320	25980	26099	1001101100	434	32820	32939	0100100010	548
19260	19379	1000010100	322	26100	26219	0101101100	436	32940	33059	1100100010	550
19380	19499	0100010100	324	26220	26339	1101101100	438	33060	33179	0010100010	552
19500	19619	1100010100	326	26340	26459	0011101100	440	33180	33299	1010100010	554
19620	19739	0010010100	328	26460	26579	1011101100	442	33300	33419	0110100010	556
19740	19859	1010010100	330	26580	26699	0111101100	444	33240	33359	1110100010	558
19860	19979	0110010100	332	26700	26819	1111101100	446	33540	33659	0001100010	560
19980	20099	1110010100	334	26820	26939	0000011100	448	33660	33779	1001100010	562
20100	20219	0001010100	336	26940	27059	1000011100	450	33780	33899	0101100010	564
20220	20339	1001010100	338	27060	27179	0100011100	452	33900	34019	1101100010	566
20340	20459	0101010100	340	27180	27299	1100011100	454	34020	34139	0011100010	568
20460	20579	1101010100	342	27300	27419	0011011100	456	34140	34259	1011100010	570
20580	20699	0011010100	344	27420	27539	1010011100	458	34260	34379	0111100010	572
20700	20819	1011010100	346	27540	27569	0110011100	460	34380	34499	1111100010	574
20820	20939	0111010100	348	27660	27779	1110011100	462	34500	34619	0000010010	576
20940	21059	1111010100	350	27780	27899	0001011100	464	34620	34739	1000010010	578
21060	21179	0000110100	352	27900	28019	1001011100	466	34740	34859	0100010010	580
21180	21299	1000110100	354	28020	28139	0101011100	468	34860	34979	1100010010	582
21300	21419	0100110100	356	28140	28259	1101011100	470	34980	35099	0010010010	584
21420	21539	1100110100	358	28260	28379	0011011100	472	35100	35219	1010010010	586
21540	21659	0010110100	360	28380	28499	1011011100	474	35220	35339	0110010010	588

Note that "0" is Switch On, "1" is Switch Off

Calibration #		Calibration Switch Setting	Freq. at 60 MPH	Calibration #		Calibration Switch Setting	Freq. at 60 MPH	Calibration #		Calibration Switch Setting	Freq. at 60 MPH
From	To			From	To			From	To		
35340	35459	1110010010	590	42180	42299	0000011010	704	49020	49139	1001100110	818
35460	35579	0001010010	592	42300	42419	1000011010	706	49140	49259	0101100110	820
35580	35699	1001010010	594	42420	42539	0100011010	708	49260	49379	1101100110	822
35700	35819	0101010010	596	42540	42659	1100011010	710	49380	49499	0011100110	824
35820	35939	1101010010	598	42660	42779	0010011010	712	49500	49619	1011100110	826
35940	36059	0011010010	600	42780	42899	1010011010	714	49620	49739	0111100110	828
36060	36179	1011010010	602	42900	43019	0110011010	716	49740	49859	1111100110	830
36180	36299	0111010010	604	43020	43139	1110011010	718	49860	49979	0000010110	832
36300	36419	1111010010	606	43140	43259	0001011010	720	49980	50099	1000010110	834
36420	36539	0000110010	608	43260	43379	1001011010	722	50100	50219	0100010110	836
36540	36659	1000110010	610	43380	43499	0101011010	724	50220	50339	1100010110	838
36660	36779	0100110010	612	43500	43619	1101011010	726	50340	50459	0010010110	840
36780	36899	1100110010	614	43620	43739	0011011010	728	50460	50579	1010010110	842
36900	37019	0010110010	616	43740	43859	1011011010	730	50580	50699	0110010110	844
37020	37139	1010110010	618	43860	43979	0111011010	732	50700	50819	1110010110	846
37140	37259	0110110010	620	43980	44099	1111011010	734	50820	50939	0001010110	848
37260	37379	1110110010	622	44100	44219	0000111010	736	50940	51059	1001010110	850
37380	37499	0001110010	624	44220	44339	1000111010	738	51060	51179	0101010110	852
37500	37619	1001110010	626	44340	44459	0100111010	740	51180	51299	1101010110	854
37620	37739	0101110010	628	44460	44579	1100111010	742	51300	51419	0011010110	856
37740	37859	1101110010	630	44580	44699	0010111010	744	51420	51539	1011010110	858
37860	37979	0011110010	632	44700	44819	1010111010	746	51540	51659	0111010110	860
37980	38099	1011110010	634	44820	44939	0110111010	748	51660	51779	1111010110	862
38100	38219	0111110010	636	44940	45059	1110111010	750	51780	51899	0000110110	864
38220	38339	1111110010	638	45060	45179	0001111010	752	51900	52019	1000110110	866
38340	38459	0000001010	640	45180	45299	1001111010	754	52020	52139	0100110110	868
38460	38579	1000001010	642	45300	45419	0101111010	756	52140	52259	1100110110	870
38580	38699	0100001010	644	45420	45539	1101111010	758	52260	52379	0010110110	872
38700	38819	1100001010	646	45540	45659	0011111010	760	52380	52499	1010110110	874
38820	38939	0010001010	648	45660	45779	1011111010	762	52500	52619	0110110110	876
38940	39059	1010001010	650	45780	45899	0111111010	764	52620	52739	1110110110	878
39060	39179	0110001010	652	45900	46019	1111111010	766	52740	52859	0001110110	880
39180	39299	1110001010	654	46020	46139	0000000110	768	52860	52979	1001110110	882
39300	39419	0001001010	656	46140	46259	1000000110	770	52980	53099	0101110110	884
39420	39539	1001001010	658	46260	46379	0100000110	772	53100	53219	1101110110	886
39540	39659	0101001010	660	46380	46499	1100000110	774	53220	53339	0011110110	888
39660	39779	1101001010	662	46500	46619	0010000110	776	53340	53459	1011110110	890
39780	39899	0011001010	664	46620	46739	1010000110	778	53460	53579	0111110110	892
39900	40019	1011001010	666	46740	46859	0110000110	780	53580	53699	1111110110	894
40020	40139	0111001010	668	46860	46979	1110000110	782	53700	53819	0000001110	896
40140	40259	1111001010	670	46980	47099	0001000110	784	53820	53939	1000001110	898
40260	40379	0000101010	672	47100	47219	1001000110	786	53940	54059	0100001110	900
40380	40499	1000101010	674	47220	47339	0101000110	788	54060	54179	1100001110	902
40500	40619	0100101010	676	47340	47459	1101000110	790	54180	54299	0010001110	904
40620	40739	1100101010	678	47460	47579	0011000110	792	54300	54419	1010001110	906
40740	40859	0010101010	680	47580	47699	1011000110	794	54420	54539	0110001110	908
40860	40979	1010101010	682	47700	47819	0111000110	796	54540	54659	1110001110	910
40980	41099	0110101010	684	47820	47939	1111000110	798	54660	54779	0001001110	912
41100	41219	1110101010	686	47940	48059	0000100110	800	54780	54899	1001001110	914
41220	41339	0001101010	688	48060	48179	1000100110	802	54900	55019	0101001110	916
41340	41459	1001101010	690	48180	48299	0100100110	804	55020	55139	1101001110	918
41460	41579	0101101010	692	48300	48419	1100100110	806	55140	55259	0011001110	920
41580	41699	1101101010	694	48420	48539	0010100110	808	55260	55379	1011001110	922
41700	41819	0011101010	696	48540	48659	1010100110	810	55380	55499	0111001110	924
41820	41939	1011101010	698	48660	48779	0110100110	812	55500	55619	1111001110	926
41940	42059	0111101010	700	48780	48899	1110100110	814	55620	55739	0000101110	928
42060	42179	1111101010	702	48900	49019	0001100110	816	55740	55859	1000101110	930

Note that "0" is Switch On, "1" is Switch Off

Calibration #		Calibration Switch Setting	Freq. at 60 MPH	Calibration #		Calibration Switch Setting	Freq. at 60 MPH	Calibration #		Calibration Switch Setting	Freq. at 60 MPH
From	To			From	To			From	To		
55860	55979	0100101110	932	62700	62819	1101000001	1046	69540	69659	0010001001	1160
55980	56099	1100101110	934	62820	62939	0011000001	1048	69660	69779	1010001001	1162
56100	56219	0010101110	936	62940	63059	1011000001	1050	69780	69899	0110001001	1164
56220	56339	1010101110	938	63060	63179	0111000001	1052	69900	70019	1110001001	1166
56340	56459	0110101110	940	63180	63299	1111000001	1054	70020	70139	0001001001	1168
56460	56579	1110101110	942	63300	63419	0000100001	1056	70140	70259	1001001001	1170
56580	56699	0001101110	944	63420	63539	1000100001	1058	70260	70379	0101001001	1172
56700	56819	1001101110	946	63540	63569	0100100001	1060	70380	70499	1101001001	1174
56820	56939	0101101110	948	63660	63779	1100100001	1062	70500	70619	0011001001	1176
56940	57059	1101101110	950	63780	63899	0010100001	1064	70620	70739	1011001001	1178
57060	57179	0011101110	952	63900	64019	1010100001	1066	70740	70859	0111001001	1180
57180	57299	1011101110	954	64020	64139	0110100001	1068	70860	70979	1111001001	1182
57300	57419	0111101110	956	64140	64259	1110100001	1070	70980	71099	0000101001	1184
57420	57539	1111101110	958	64260	64379	0001100001	1072	71100	71219	1000101001	1186
57540	57659	0000011110	960	64380	64499	1001100001	1074	71220	71339	0100101001	1188
57660	57779	1000011110	962	64500	64619	0101100001	1076	71340	71459	1100101001	1190
57780	57899	0100011110	964	64620	64739	1101100001	1078	71460	71579	0010101001	1192
57900	58019	1100011110	966	64740	64859	0011100001	1080	71580	71699	1010101001	1194
58020	58139	0010011110	968	64860	64979	1011100001	1082	71700	71819	0110101001	1196
58140	58259	1010011110	970	64980	65099	0111100001	1084	71820	71939	1110101001	1198
58260	58379	0110011110	972	65100	65219	1111100001	1086	71940	72059	0001101001	1200
58380	58499	1110011110	974	65220	65339	0000010001	1088	72060	72179	1001101001	1202
58500	58619	0001011110	976	65340	65459	1000010001	1090	72180	72299	0101101001	1204
58620	58739	1001011110	678	65460	65579	0100010001	1092	72300	72419	1101101001	1206
58740	58859	0101011110	980	65580	65699	1100010001	1094	72420	72539	0011101001	1208
58860	58979	1101011110	982	65700	65819	0010010001	1096	72540	72659	1011101001	1210
58980	59099	0011011110	984	65820	65939	1010010001	1098	72660	72779	0111101001	1212
59100	59219	1011011110	986	65940	66059	0110010001	1100	72780	72899	1111101001	1214
59220	59339	0111011110	988	66060	66179	1110010001	1102	72900	73019	0000011001	1216
59340	59459	1111011110	990	66180	66299	0001010001	1104	73020	73139	1000011001	1218
59460	59579	0000111110	992	66300	66419	1001010001	1106	73140	73259	0100011001	1220
59580	59699	1000111110	994	66420	66539	0101010001	1108	73260	73379	1100011001	1222
59700	59819	0100111110	996	66540	66659	1101010001	1110	73380	73499	0010011001	1224
59820	59939	1100111110	998	66660	66779	0011010001	1112	73500	73619	1010011001	1226
59940	60059	0010111110	1000	66780	66899	1011010001	1114	73620	73739	0110011001	1228
60060	60179	1010111110	1002	66900	67019	0111010001	1116	73740	73859	1110011001	1230
60180	60299	0110111110	1004	67020	67139	1111010001	1118	73860	73979	0001011001	1232
60300	60419	1110111110	1006	67140	67259	0000110001	1120	73980	74099	1001011001	1234
60420	60539	0001111110	1008	67260	67379	1000110001	1122	74100	74219	0101011001	1236
60540	60659	1001111110	1010	67380	67499	0100110001	1124	74220	74339	1101011001	1238
60660	60779	0101111110	1012	67500	67619	1100110001	1126	74340	74459	0011011001	1240
60780	60899	1101111110	1014	67620	67739	0010110001	1128	74460	74579	1011011001	1242
60900	61019	0011111110	1016	67740	67859	1010110001	1130	74580	74699	0111011001	1244
61020	61139	1011111110	1018	67860	67979	0110110001	1132	74700	74819	1111011001	1246
61140	61259	0111111110	1020	67980	68099	1110110001	1134	74820	74939	0000111001	1248
61260	61379	1111111110	1022	68100	68219	0001110001	1136	74940	75059	1000111001	1250
61380	61499	0000000001	1024	68220	68339	1001110001	1138	75060	75179	0100111001	1252
61500	61619	1000000001	1026	68340	68459	0101110001	1140	75180	75299	1100111001	1254
61620	61739	0100000001	1028	68460	68579	1101110001	1142	75300	75419	0010111001	1256
61740	61859	1100000001	1030	68580	68699	0011110001	1144	75420	75539	1010111001	1258
61860	61979	0010000001	1032	68700	68819	1011110001	1146	75540	75659	0110111001	1260
61980	62099	1010000001	1034	68820	68939	0111110001	1148	75660	75779	1110111001	1262
62100	62219	0110000001	1036	68940	69059	1111110001	1150	75780	75899	0001111001	1264
62220	62339	1110000001	1038	69060	69179	0000001001	1152	75900	76019	1001111001	1266
62340	62459	0001000001	1040	69180	69299	1000001001	1154	76020	76139	0101111001	1268
62460	62579	1001000001	1042	69300	69419	0100001001	1156	76140	76259	1101111001	1270
62580	62699	0101000001	1044	69420	69539	1100001001	1158	76260	76379	0011111001	1272

Note that "0" is Switch On, "1" is Switch Off

Calibration #		Calibration Switch Setting	Freq. at 60 MPH	Calibration #		Calibration Switch Setting	Freq. at 60 MPH	Calibration #		Calibration Switch Setting	Freq. at 60 MPH
From	To			From	To			From	To		
76380	76499	1011111001	1274	83220	83339	0110110101	1388	90060	90179	1111011101	1502
76500	76619	0111111001	1276	83340	83459	1110110101	1390	90180	90299	0000111101	1504
76620	76739	1111111001	1278	83460	83579	0001110101	1392	90300	90419	1000111101	1506
76740	76859	0000000101	1280	83580	83699	1001110101	1394	90420	90539	0100111101	1508
76860	76979	1000000101	1282	83700	83819	0101110101	1396	90540	90659	1100111101	1510
76980	77099	0100000101	1284	83820	83939	1101110101	1398	90660	90779	0010111101	1512
77100	77219	1100000101	1286	83940	84059	0011110101	1400	90780	80899	1010111101	1514
77220	77339	0010000101	1288	84060	84179	1011110101	1402	90900	91019	0110111101	1516
77340	77459	1010000101	1290	84180	84299	0111110101	1404	91020	91139	1110111101	1518
77460	77579	0110000101	1292	84300	84419	1111110101	1406	91140	91259	0001111101	1520
77580	77699	1110000101	1294	84420	84539	0000001101	1408	91260	91379	1001111101	1522
77700	77819	0001000101	1296	84540	84659	1000001101	1410	91380	91499	0101111101	1524
77820	77939	1001000101	1298	84660	84779	0100001101	1412	91500	91619	1101111101	1526
77940	78059	0101000101	1300	84780	84899	1100001101	1414	91620	91739	0011111101	1528
78060	78179	1101000101	1302	84900	85019	0010001101	1416	91740	91859	1011111101	1530
78180	78299	0011000101	1304	85020	85139	1010001101	1418	91860	91979	0111111101	1532
83000	78419	1011000101	1306	85140	85259	0110001101	1420	91980	92099	1111111101	1534
78420	78539	0111000101	1308	85260	85379	1110001101	1422	92100	92219	0000000011	1536
78540	78659	1111000101	1310	85380	85499	0001000101	1424	92220	92339	1000000011	1538
78660	78779	0000100101	1312	85500	85619	1001000101	1426	92340	92459	0100000011	1540
78780	78899	1000100101	1314	85620	85739	0101000101	1428	92460	92579	1100000011	1542
78900	79019	0100100101	1316	85740	85859	1101000101	1430	92580	92699	0010000011	1544
79020	79139	1100100101	1318	85860	85979	0011000101	1432	92700	92819	1010000011	1546
79140	79259	0010100101	1320	85980	86099	1011000101	1434	92820	92939	0110000011	1548
79260	79379	1010100101	1322	86100	86219	0111000101	1436	92940	93059	1110000011	1550
79380	79499	0110100101	1324	86220	86339	1111000101	1438	93060	93179	0001000011	1552
79500	79619	1110100101	1326	86340	86459	0000101101	1440	93180	93299	1001000011	1554
79620	79739	0001100101	1328	86460	86579	1000101101	1442	93300	93419	0101000011	1556
79740	79859	1001100101	1330	86580	86699	0100101101	1444	93420	93539	1101000011	1558
79860	79979	0101100101	1332	86700	86819	1100101101	1446	93540	93659	0011000011	1560
79980	80099	1101100101	1334	86820	86939	0010101101	1448	93660	93779	1011000011	1562
80100	80219	0011100101	1336	86940	87059	1010101101	1450	93780	93899	0111000011	1564
80220	80339	1011100101	1338	87060	87179	0110101101	1452	93900	94019	1111000011	1566
80340	80459	0111100101	1340	87180	87299	1110101101	1454	94020	94139	0000100011	1568
80460	80579	1111100101	1342	87300	87419	0001101101	1456	94140	94259	1000100011	1570
80580	80699	0000010101	1344	87420	87539	1001101101	1458	94260	94379	0100100011	1572
80700	80819	1000010101	1346	87540	87659	0101101101	1460	94380	94499	1100100011	1574
80820	80939	0100010101	1348	87660	87779	1101101101	1462	94500	94619	0010100011	1576
80940	81059	1100010101	1350	87780	87899	0011101101	1464	94620	94739	1010100011	1578
81060	81179	0010010101	1352	87900	88019	1011101101	1466	94740	94859	0110100011	1580
81180	81299	1010010101	1354	88020	88139	0111101101	1468	94860	94979	1110100011	1582
81300	81419	0110010101	1356	88140	88259	1111101101	1470	94980	95099	0001100011	1584
81420	81539	1110010101	1358	88260	88379	0000011101	1472	95100	95219	1001100011	1586
81540	81659	0001010101	1360	88380	88499	1000011101	1474	95220	95339	0101100011	1588
81660	81779	1001010101	1362	88500	88619	0100011101	1476	95340	95459	1101100011	1590
81780	81899	0101010101	1364	88620	88739	1100011101	1478	95460	95579	0011100011	1592
81900	82019	1101010101	1366	88740	88859	0010011101	1480	95580	95699	1011100011	1594
82020	82139	0011010101	1368	88860	88979	1010011101	1482	95700	95819	0111100011	1596
82140	82259	1011010101	1370	88980	89099	0110011101	1484	95820	95939	1111100011	1598
82260	82379	0111010101	1372	89100	89219	1110011101	1486	95940	96059	0000010011	1600
82380	82499	1111010101	1374	89220	89339	0001011101	1488	96060	96179	1000010011	1602
82500	82619	0000110101	1376	89340	89459	1001011101	1490	96180	96299	0100010011	1604
82620	82739	1000110101	1378	89460	89579	0101011101	1492	96300	96413	1100010011	1606
82740	82859	0100110101	1380	89580	89699	1101011101	1494	96420	96539	0010010011	1608
82860	82979	1100110101	1382	89700	89819	0011011101	1496	96540	96659	1010010011	1610
82980	83099	0010110101	1384	89820	89939	1011011101	1498	96660	96779	0110010011	1612
83100	83219	1010110101	1386	89940	90059	0111011101	1500	96780	96899	1110010011	1614

Note that "0" is Switch On, "1" is Switch Off

Calibration #		Calibration Switch Setting	Freq. at 60 MPH	Calibration #		Calibration Switch Setting	Freq. at 60 MPH	Calibration #		Calibration Switch Setting	Freq. at 60 MPH
From	To			From	To			From	To		
96900	97019	0001010011	1616	103740	103859	1000011011	1730	110580	110699	0101100111	1844
97020	97139	1001010011	1618	103860	103979	0100011011	1732	110700	110819	1101100111	1846
97140	97259	0101010011	1620	103980	104099	1100011011	1734	110820	110393	0011100111	1848
97260	97379	1101010011	1622	104100	104219	0010011011	1736	110940	111059	1011100111	1850
97380	97499	0011010011	1624	104220	104339	1010011011	1738	111060	111179	0111100111	1852
97500	97619	1011010011	16126	104340	104459	0110011011	1740	111180	111299	1111100111	1854
97620	97739	0111010011	1628	104460	104579	1110011011	1742	111300	111419	0000010111	1856
97740	97859	1111010011	1630	104580	104699	0001011011	1744	111420	111539	1000010111	1858
97860	97979	0000110011	1632	104700	104819	1001011011	1746	111540	111659	0100010111	1860
97980	98099	1000110011	1634	104820	104393	0101011011	1748	111660	111779	1100010111	1862
98100	98219	0100110011	1636	104940	105059	1101011011	1750	111780	111899	0010010111	1864
98220	98339	1100110011	1638	105060	105179	0011011011	1752	111900	112019	1010010111	1866
98340	98459	0010110011	1640	105180	105299	1011011011	1754	112020	112139	0110010111	1868
98460	98579	1010110011	1642	105300	105419	0111011011	1756	112140	112259	1110010111	1870
98580	98699	0110110011	1644	105420	105539	1111011011	1758	112260	112379	0001010111	1872
98700	98819	1110110011	1646	105540	105659	0000111011	1760	112380	112499	1001010111	1874
98820	98939	0001110011	1648	105660	105779	1000111011	1762	112500	112619	0101010111	1876
98940	99059	1001110011	1650	105780	105899	0100111011	1764	112620	112739	1101010111	1878
99060	99179	0101110011	1652	105900	106019	1100111011	1766	112740	112859	0011010111	1880
99180	99299	1101110011	1654	106020	106139	0010111011	1768	112860	112979	1011010111	1882
99300	99419	0011110011	1656	106140	106259	1010111011	1770	112980	113099	0111010111	1884
99420	99539	1011110011	1658	106260	106379	0110111011	1772	113100	113219	1111010111	1886
99540	99659	0111110011	1660	106380	106499	1110111011	1774	113220	113339	0000110111	1188
99660	99779	1111110011	1662	106500	106619	0001111011	1776	113340	113459	1000110111	1890
99780	99899	0000001011	1664	106620	106739	1001111011	1778	113460	113579	0100110111	1892
99900	100019	1000001011	1666	106740	106859	0101111011	1780	113580	113699	1100110111	1894
100020	100139	0100001011	1668	106860	106979	1101111011	1782	113700	113819	0010110111	1896
100140	100259	1100001011	1670	106980	107099	0011111011	1784	113820	113939	1010110111	1898
100260	100379	0010001011	1672	107100	107219	1011111011	1786	113940	114059	0110110111	1900
100380	100499	1010001011	1674	107220	107339	0111111011	1788	114060	114179	1110110111	1902
100500	100619	0110001011	1676	107340	107459	1111111011	1790	114180	114299	0001110111	1904
100620	100739	1110001011	1678	107460	107579	0000000111	1792	114300	114419	1001110111	1904
100740	100859	0001001011	1680	107580	107699	1000000011	1794	114420	114539	0101110111	1908
100860	100979	1001001011	1682	107700	107819	0100000111	1796	114540	114659	1101110111	1910
100980	101099	0101001011	1684	107820	107393	1100000111	1798	114660	114779	0011110111	1912
101100	101219	1101001011	1686	107940	108059	0010000111	1800	114780	114899	1011110111	1914
101220	101339	0011001011	1688	108060	108179	1010000111	1802	114900	115019	0111110111	1916
101340	101459	1011001011	1690	108180	108299	0110000111	1804	115020	115139	1111110111	1918
101460	101579	0111001011	1692	108300	108419	1110000111	1806	115140	115259	0000001111	1920
101580	101699	1111001011	1694	108420	108539	0001000111	1808	115260	115379	1000001111	1922
101700	101819	0000101011	1696	108540	108659	1001000111	1810	115380	115499	0100001111	1924
101820	101939	1000101011	1698	108660	108779	0101000111	1812	115500	115619	1100001111	1926
101940	102059	0100101011	1700	108780	108899	1101000111	1814	115620	115739	0010001111	1928
102060	102179	1100101011	1702	108900	109019	0011000111	1816	115740	115859	1010001111	1930
102180	102299	0010101011	1704	109020	109139	1011000111	1818	115860	115979	0110001111	1932
102300	102419	1010101011	1706	109140	109259	0111000111	1820	115980	116099	1110001111	1934
102420	102539	0110101011	1708	109260	109379	1111000111	1822	116100	116219	0001001111	1936
102540	102659	1110101011	1710	109380	109499	0000100111	1824	116220	116339	1001001111	1938
102660	102779	0001101011	1712	109500	109619	1000100111	1826	116340	116459	0101001111	1940
102780	102899	1001101011	1714	109620	109739	0100100111	1828	116460	116579	1101001111	1942
102900	103019	0101101011	1716	109740	109859	1100100111	1830	116580	116699	0011001111	1944
103020	103139	1101101011	1718	109860	109979	0010100111	1832	116700	116819	1011001111	1946
103140	103259	0011101011	1720	109980	110099	1010100111	1834	116820	116939	0111001111	1948
103260	103379	1011101011	1722	110100	110219	0110100111	1836	116940	117059	1111001111	1950
103380	103499	0111101011	1724	110220	110339	1110100111	1838	117060	117179	0000101111	1952
103500	103619	1111101011	1726	110340	110459	0001100111	1840	117180	117299	1000101111	1954
103620	103739	0000011011	1728	110460	110579	1001100111	1842	117300	117419	0100101111	1956

Note that "0" is Switch On, "1" is Switch Off

Calibration #		Calibration Switch Setting	Freq. at 60 MPH	Calibration #		Calibration Switch Setting	Freq. at 60 MPH	Calibration #		Calibration Switch Setting	Freq. at 60 MPH
From	To			From	To			From	To		
117420	117539	1100101111	1958								
117540	117659	0010101111	1960								
117660	117779	1010101111	1962								
117780	117899	0110101111	1964								
117900	118019	1110101111	1966								
118020	118139	0001101111	1968								
118140	118259	1001101111	1970								
118260	118379	0101101111	1972								
118380	118499	1101101111	1974								
118500	118619	0011101111	1976								
118620	118739	1011101111	1978								
118740	118859	0111101111	1980								
118860	118979	1111101111	1982								
118980	119099	0000011111	1984								
119100	119219	1000011111	1986								
119220	119339	0100011111	1988								
119340	119459	1100011111	1990								
119460	119579	0010011111	1992								
119580	119699	1010011111	1994								
119700	119819	0110011111	1996								
119820	119939	1110011111	1998								
119940	120059	0001011111	2000								
120060	120179	1001011111	2002								
120180	120299	0101011111	2004								
120300	120419	1101011111	2006								
120420	120539	0011011111	2008								
120540	120659	1011011111	2010								
120660	120779	0111011111	2012								
120780	120899	1111011111	2014								
120900	121019	0000111111	2016								
121020	121139	1000111111	2018								
121140	121259	0100111111	2020								
121260	121379	1100111111	2022								
121380	121499	0010111111	2024								
121500	121619	1010111111	2026								
121620	121739	0110111111	2028								
121740	121859	1110111111	2030								
121860	121979	0001111111	2032								
121980	122099	1001111111	2034								
122100	122219	0101111111	2036								
122220	122339	1101111111	2038								
122340	122459	0011111111	2040								
122460	122579	1011111111	2042								