

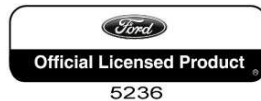
Example of colored diagrams

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1971 Colorized Mustang Wiring and Vacuum Diagrams
(Extracted from Form FD-7795P-71, Form 7098-71-3, FP-7635B, and FD-7943-G)
EAN: 978-1-60371-030-5
ISBN: 1-60371-030-2

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3999 Peregrine Ridge Ct.
Woodbridge, VA 22192



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Note from the Editor

This product was compiled using several original Ford Motor Company publications. In some cases, there are slight differences between publications, so it is important to compare between diagrams, schematics, or illustrations. The contents of this product were extracted from: *1971 Wiring and Vacuum Diagrams* (Form FD-7795P-71), *1965/1972 Ford Car Master Parts and Accessory Catalog* (Form FP-7635B), *1971 Car Shop Manual* (Volume III, FORM 7098-71-3), and *How to Read Wiring Diagrams* (FD-7943-G, January 1968).

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ATTENTION

Please Read This



It is important to note that there may be errors in the diagrams, even though they are original Ford publications. Below are two examples of possible errors because the color code on the page diagram does not match the master Car Standard Wire Code Chart. If your vehicle has a color coded wire that does not match a diagram you should consult the other diagrams contained in the manual for a possible match.

Example of possible errors

37	YELLOW
38	BLACK
54	LT. GREEN-YELLOW STRIPE
158	BLACK-PINK HASH STRIPE

In the wiring diagrams from the Ford publication Form 7795P-71, the Key Warning Buzzer Wiring Color Code shows:

38 Black

However, the Car Standard Wire Color Code Chart lists:

38 – Black-Orange Stripe

37	YELLOW
38	BLACK
54	LT. GREEN-YELLOW STRIPE
158	BLACK-PINK HASH STRIPE

In the wiring diagrams from the Ford publication Form 7795P-71, the Key Warning Buzzer Wiring Color Code shows:

158 Black-Pink HASH STRIPE

However, the Car Standard Wire Color Code Chart lists:

158 – Black- Pink HASH

The color coded wiring diagrams are provided for illustration purposes only. Only the wire number should be used for the identification of the wire itself. The color coding of the wires in the product may not match the actual colors of the wires in the vehicle. In some cases, the colors have been altered to provide a visual contrast (i.e. the color white has been shaded to make it more visible). As stated in the paragraph above, there are some variation and/or differences between the original Ford wiring diagrams. If your vehicle has a color coded wire that does not match a diagram you should consult the other diagrams contained in the manual for a possible match.

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Source Document
Ford Publication Form 7795P-71

1971

COURSE 13003 and 1703

WIRING and VACUUM DIAGRAMS



**SERVICE
TRAINING**

FORM 7795P-71

FOREWORD

This book contains wiring and vacuum diagrams for all Ford and Lincoln-Mercury car lines and all Ford trucks.

Both wiring and vacuum diagram replacement sheets will be released as required to keep the book current.

All vacuum systems are contained in a separate section.

This book is divided by vehicles. Refer to the applicable section as follows:

- Pinto
- Maverick and Comet
- Mustang and Cougar
- Torino
- Montego
- Ford and Meteor
- Mercury
- Thunderbird
- Mark III
- Lincoln
- Bronco, Econoline and P-Series
- B and F-100-750 Series
- C and CT-Series
- W-Series
- L-Series



The illustrations contained in this book were in effect at the time the book was approved for printing. Ford Motor Companies, whose policy is one of continuous improvement, reserves the right to discontinue models at any time, or to change specifications or design, without notice and without incurring obligation.

HOW TO USE THE WIRING DIAGRAMS

Two styles of wiring diagrams are contained in this book.

I — Cars (Except Mustang, Cougar and Lincoln) and L-Series Truck.

II — Mustang, Cougar, Lincoln and Truck (Except L-Series)

I — CARS (Except Mustang, Cougar and Lincoln) AND L-SERIES TRUCKS

Each electrical circuit is illustrated in a clear and easy to follow style.

There are 7 steps that should be followed to use this diagram to diagnose electrical problems.

- Verify the complaint
- Refer to the Index
- Locate inoperative system
- Identify other systems on the circuit
- Isolate the problem area
- Correct the problem
- Operate the corrected system

VERIFY THE COMPLAINT

To diagnose a customer complaint "Back Up Lights Don't Work" the first thing we should do is verify the complaint.

If both lights do not work, refer to the INDEX on page 1 of the vehicle schematic.

REFER TO THE INDEX

An INDEX is provided on page 1 to locate the inoperative components.

See LAMPS — BACK-UP on the INDEX. The INDEX lists the location of the part on the drawing.

The drawing is set up like a road map. For example: the Pinto Back-up lights are located at B-27. To locate B-27 on the schematic, find the number 27 at the top of the illustration.

Now, find the letter B on the side of the illustration. Follow the number and the letter until they intersect. The part will be within an inch or two of the intersection.

LOCATE INOPERATIVE SYSTEM

Generally, the power supply for all components on this drawing comes from the top of the page and over to the battery at the left.

The ground for each component is always toward the bottom of the drawing.

There are symbols used on this drawing that are explained as follows:

- Ground symbols are shown in Figure 1. A ground wire connected away from the component is identified by a code G1 or G2, etc. The location of the remote ground is listed in the GROUND CODES chart and the bottom of the page.

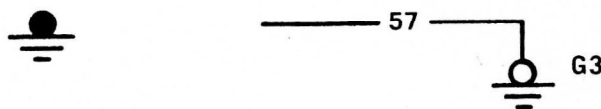


Fig. 1 — Ground Symbols

- Wire color code is shown in Fig. 2. Wiring Color Codes are listed at the bottom of the drawing. New Standard Wiring Color Codes are listed behind these instructions.



Fig. 2 — Wire Color Code

CORRECT THE PROBLEM

Use standard continuity tests for open circuits and short circuit tests to find the specific problem.

Repair or replace the electrical component that is malfunctioning.

OPERATE CORRECTED SYSTEM

It is a good practice to operate the system after a repair has been made to see if it now works.

BULB AND FUSE CHART

A bulb and fuse chart is included on the first page of this schematic for your convenience.

II — MUSTANG, COUGAR, LINCOLN AND TRUCKS (Except L-Series)

The index page is the first page in each section. Each electrical schematic will have a notation as to the source of power for that system. All wires will be shown as single lines to provide a clear understanding of the diagrams. To trace a circuit, it is recommended to start at the ground circuit of the inoperative component, trace it through all connectors to the source, and note the possible trouble areas and points of most convenient access. Wire connectors will be identified on the schematic and the pictorial drawings, this will show the technician the location of the connectors. Most wire connectors are shown in open book fashion. A wire on the top right of a connector (open side by side) will be on the top left side of the other half of the connector. See Figure 9 (Wire No. 140 to No. 140A, etc.)

Wire disconnects and connectors will all be black unless a color code is noted on the diagram. The colored disconnects and connectors are to aid the technician in finding the proper circuit to be tested or traced. Pictorial drawings of a component will include the specific location of some components in cases where it is difficult to determine if the component is under the instrument panel or in the engine compartment.

Relays and switches are shown in the "System Off" position. If a vehicle specific wire color in a connector does not match the diagram shown, it can usually be identified by comparing the other colors shown at the wire connectors. Specific wire color deviations in the manufacturing of a wire harness are usually for a short duration.

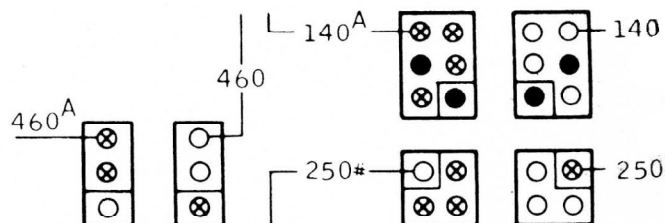


Fig. 9 — Connectors

CAR STANDARD WIRE COLOR CODE CHART

(1 OF 3)

CIRCUITS IN CURRENT USE

CIRCUIT	DESCRIPTION	COLOR NO.	BASE	STRIPE	WASH	DUT	CIRCUIT
1	HORN SWITCH CONTROL	69	DK BLUE				1*
2	RH FRONT TURN SIGNAL LAMP	55	WHITE	LT BLUE			2
3	LH FRONT TURN SIGNAL LAMP	39	LT GREEN	WHITE			3
4	ALTERNATOR REG. "S" TERM. TO ALTERNATOR "S" TERM	51	WHITE	BLACK			4
5	RH REAR TURN SIGNAL LAMP	25	ORANGE	LT BLUE			5
6	HORN RELAY TO HORN	139	YELLOW		LT GREEN		6
7	SEAT SWITCH ARM TERM TO RELAY FIELD TERM	232	LT GREEN			YELLOW	7
8	TURN SIGNAL FLASHER FEED	21	ORANGE	YELLOW			8
9	LH REAR TURN SIGNAL LAMP	36	LT GREEN	ORANGE			9
10	STOP LAMP SWITCH FEED	147	LT GREEN		RED		10
11	HEADLAMP DIMMER SWITCH TO HIGH BEAMS	34	LT GREEN	BLACK			11
12	HEADLAMP DIMMER SWITCH TO LOW BEAMS	14	RED	BLACK			12
13	HEADLAMP SWITCH TO TAIL LAMPS AND SIDE MARKER LAMPS	7	BROWN				13
14	HEADLAMP SWITCH TO HEADLAMP DIMMER SWITCH	16	RED	YELLOW			14*
15	IGNITION SWITCH TO IGNITION COIL "BATT." TERMINAL	17	RED	LT GREEN			15
16	LOW OIL PRESSURE WARNING LAMP TO LOW OIL PRESS. SENDING UNIT	59	WHITE				16
17	SEAT SWITCH TO RELAY FIELD TERM	215	ORANGE			YELLOW	17
18	INSTRUMENT PANEL LAMPS FEED	18	RED				18
19	WINDSHIELD WIPER SW. TO WINDSHIELD WIPER MOTOR	41	LT BLUE	RED			19
20	FUEL GAGE TO FUEL GAGE SENDER	181	BLACK	BLACK		PINK	20
21	CONSTANT VOLTAGE UNIT AND INDICATOR LAMPS FEED	32	YELLOW	WHITE			21
22	OIL PRESSURE INDICATOR TO OIL PRESSURE SENDING UNIT	4	BLACK	LT GREEN			22
23	STARTER CONTROL	52	WHITE	RED			23
24	ALTERNATOR REGULATOR "F" TERM. TO ALTERNATOR	18	RED	LT BLUE			24
25	ALTERNATOR OUTPUT	223	YELLOW			WHITE	25
26	BATTERY TO LOAD	27	YELLOW				26*
27	POWER SUPPLY TO BATTERY	2	BLACK	ORANGE			27
28	TEMP. GAGE TO TEMP. SENDING UNIT	19	RED	WHITE			28
29	CIGAR LIGHTER FEED	45	LT BLUE	WHITE			29
30	WARNING LAMP FEED	102	BLACK		LT BLUE		30
31	SWITCH TO WARNING LAMP	206	RED			WHITE	31
32	LOW AIR BUZZER FEED	134	ORANGE		LT BLUE		32
33	TURN SIGNAL FLASHER TO TURN SIGNAL SWITCH	40	LT BLUE				33
34	HOT WATER TEMP. RELAY TO HOT WATER TEMP. SENDING UNIT	29	YELLOW	RED			34
35	BLIND CIRCUIT TERM IN HARNESS CANNOT BE CHECKED FOR CONT (COLOR OPT)	264					35
36	SEAT REG. CONTROL SWITCH FEED	186	BLACK			WHITE	36
37	COURTESY LAMP SWITCH TO COURTESY LAMP	5	BLACK	LT BLUE			37
38	INTERIOR LAMP SWITCH FEED	37	LT GREEN	YELLOW			38
39	CARGO LAMP SW. TO CARGO LAMP	61	BLACK	ORANGE			39
40	WINDSHIELD WIPER SW. TO WINDSHIELD WIPER MOTOR	70	DK BLUE				40
41	GROUND CIRCUIT	1	BLACK				41
42	WINDSHIELD WIPER SW. TO WINDSHIELD WIPER MOTOR	50	WHITE			LT GREEN	42
43	CONSTANT VOLTAGE UNIT TO GAGE	184	BLACK				43
44	WINDSHIELD WIPER SW. TO WINDSHIELD WIPER MOTOR	29	YELLOW	RED			44
45	WINDSHIELD WIPER SW. TO WINDSHIELD WIPER MOTOR	13	RED				45
46	WINDSHIELD WIPER SW. TO WINDSHIELD WIPER MOTOR	64	DK GREEN				46
47	AIR SHIFT SWITCH TO INDICATOR LAMP	40	LT BLUE				47
48	COIL TERM. IGN. SW. TO FUEL SOLENOID	118	RED		PINK		48
49	LOW AIR BUZZER TO LOW AIR BUZZER SWITCH	133	ORANGE		LT GREEN		49
50	RELAY "B" TERMINAL TO LAMP (WATER)	33	LT GREEN				50
51	STARTING MOTOR RELAY TO SERIES PARALLEL SW. (#1 TERM)	150	LT GREEN		PURPLE		51
52	ENGINE COMPARTMENT LAMP FEED	182	BLACK			ORANGE	52
53	DECK LID SOLENOID FEED	163	PURPLE		YELLOW		53
54	INSTRUMENT PANEL LAMP SWITCH FEED	6	BLACK	WHITE			54
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89	GLOW PLUG TO GLOW PLUG SWITCH	24	ORANGE	LT GREEN			89
90	OVERDRIVE KICKDOWN SWITCH TO OVERDRIVE GOVERNOR	25	WHITE			RED	90
91	OVERDRIVE KICKDOWN SW. TO IGN. COIL	297	WHITE				91
92	OVERDRIVE KICKDOWN SW. TO OVERDRIVE SOLENOID	43	LT BLUE	ORANGE			92
93	OVERDRIVE KICKDOWN SWITCH TO OVERDRIVE RELAY	203	RED			YELLOW	93
94	OVERDRIVE SOLENOID TO OVERDRIVE RELAY	40	LT BLUE				94
95	WARNING LAMP TO LIGHTS ON RELAY	3	BLACK	YELLOW			95
96	WARNING LAMP RELAY FEED	183	BLACK			YELLOW	96
97	STARTING MOTOR TO STARTING MOTOR RELAY	222	YELLOW			LT BLUE	97
98	FEED TO VACUUM DOOR LOCK SWITCH	113	TAN		YELLOW		98
99	VACUUM DOOR LOCK SWITCH TO SOLENOID (LOCK)	33	LT GREEN				99
100	VACUUM DOOR LOCK SWITCH TO SOLENOID (UNLOCK)	188	BROWN			ORANGE	100
101	DOOR LOCK MOTOR (LOCK)	207	PINK			BLACK	101
102	DOOR LOCK MOTOR (UNLOCK)	208	PINK			ORANGE	102
103	DOOR LOCK SWITCH (LOCK)	209	PINK			YELLOW	103
104	DOOR LOCK SWITCH (UNLOCK)	210	PINK			LT GREEN	104
105	TOP CONTROL SWITCH TO TOP CONT. MOTOR OR RELAY	27	YELLOW				105
106	TOP CONTROL SWITCH TO TOP CONT. MOTOR OR RELAY	13	RED				106
107	MAP LAMP SWITCH TO RH MAP LAMP	9	BROWN	YELLOW			107
108	COURTESY LAMP SW. TO INSTR. PANEL COURTESY LAMP	182	BLACK			ORANGE	108
109	COURTESY LAMP SW. TO "C" PILLAR LAMPS	185	BLACK			LT BLUE	109
110	GLOW PLUG SWITCH FEED	33	LT GREEN				110
111	CIGAR LIGHTER LAMP FEED	60	PURPLE	ORANGE			111
112	RELAY TO MAP LAMP SWITCH	111	TAN		RED		112
113	RADIO # ANTENNA SWITCH FEED	136	YELLOW		BLACK		113
114	DOOR JAMB SWITCH TO LIGHTS ON RELAY	11	BROWN	LT BLUE			114
115	BLACK UP LAMP	61	BLACK	PINK			115
116	TWO OR THREE SPEED AXLE SWITCH TO TWO OR THREE SPEED AXLE MOTOR	181	BLACK			PINK	116
117	TWO OR THREE SPEED AXLE SWITCH FEED	142	DK GREEN		YELLOW		117
118	TWO OR THREE SPEED AXLE SWITCH TO TWO OR THREE SPEED AXLE MOTOR	13	RED				118
119	SPEED CONTROL ON-OFF SWITCH TO AMPLIFIER	156	LT BLUE		BLACK		119
120	STARTING MOTOR RELAY TO FLASHER	19	RED	WHITE			120
121	KEY WARNING SWITCH TO BUZZER	98	BLACK		PINK		121
122	DOOR JAMB SWITCH TO BUZZER	61	RED		PINK		122
123	BUZZER TO WARNING INDICATOR RELAY	88	WHITE				123
124	EMERG. BRAKE WARNING LAMP TO EMERG. BRAKE SWITCH	230	LT GREEN			RED	124
125	WINDOW REGULATOR SWITCH FEED	205	RED			LT BLUE	125
126	CIRCUIT BREAKER TO SEAT LATCH RELAY	4	BLACK	WHITE			126
127	RELAY TO SEAT LATCH SOLENOID	20	ORANGE				127
128	DOOR SWITCH TO SEAT LATCH RELAY (COIL TERM.)	85	PINK	WHITE			128
129	TOP CONTROL SWITCH OR RELAY FEED	183	BLACK			YELLOW	129
130	REAR WINDOW REGULATOR SWITCH FEED	50	WHITE				130
131	HORIZONTAL SEAT REG. MOTOR TO RELAY	27	YELLOW				131
132	HORIZONTAL SEAT REG. MOTOR TO RELAY	13	RED				132
133	BLOWER MOTOR FEED	8	BROWN	ORANGE			133
134	THERMOSTAT SWITCH FEED	17	BROWN	WHITE			134
135	AIR COND SW. (LO) TO AIR COND BLOWER MOTOR	112	TAN				135
136	DEFOGGER SW. TO DEFOGGER MOTOR	108	BROWN		LT BLUE		136
137	CIRCUIT BRKR. TO HEADLAMP SW. "BATT." TERM.	1	BLACK				137
138	DEFOGGER SW. TO DEFOGGER MOTOR	71	DK BLUE	YELLOW			138
139	WINDOW REGULATOR RELAY FEED	138	YELLOW		LT GREEN		139
140	WINDOW REG RELAY ACQY FEED	79	PINK				140
141	COOLANT FAN CONTROL RELAY FEED	194	TAN			RED	141
142	COOLANT TEMPERATURE SWITCH TO CONTROL RELAY	195	TAN			ORANGE	142
143	A/C PRESSURE SWITCH TO CONTROL RELAY	196	TAN			YELLOW	143
144	CONTROL RELAY TO IGNITION RELAY	197	TAN			LT GREEN	144
145	IGNITION RELAY TO COOLANT FAN	198	TAN			LT BLUE	145
146	GROUND RETURN TO TOWING VEHICLE	50	WHITE				146*
147	MARKER LAMP SWITCH TO MARKER LAMPS	1	BLACK				147*
148	AUXILIARY CIRCUIT FEED TO TRACTOR TRAILER PLUG	69	DK BLUE				148*

CAR STANDARD WIRE COLOR CODE CHART

(2 OF 3)

CIRCUITS IN CURRENT USE

Circuit

	COLOR NO.	BASE	STRIPE	WASH	DUT	CIRCUIT
215 SIGNAL UNIT LAMP TO FUEL SIGNAL RELAY	219	YELLOW			BLACK	215
226 LF WINDOW REG SW TO LF WINDOW REG MOTOR	13	RED				226
227 LF WINDOW REG SW TO LF WINDOW REG MOTOR	27	YELLOW				227
241 DE-ICE SOLENOID CONTROL	44	LT BLUE	YELLOW			241
243 POWER SERVO TO CLIMATE CONTROL UNIT (MODE)	149	LT GREEN		ORANGE		243
244 THERMAL SW. TO CLIMATE CONTROL UNIT	140	YELLOW		WHITE		244
245 POWER SERVO TO CLIMATE CONTROL UNIT (AMP)	10	BROWN	LT GREEN			245
246 POWER SERVO TO CLIMATE CONTROL UNIT (AMP)	46	PURPLE				246
247 POWER SERVO TO CLIMATE CONTROL UNIT (AMP)	89	WHITE	YELLOW			247
248 HEATER & A/C CONTROL SW. (DE-ICE) TO CLIMATE CONTROL UNIT	139	YELLOW		LT BLUE		248
249 HEATER & A/C CONTROL SW. (LO-NORM) TO CLIMATE CONTROL UNIT	57	DK BLUE	LT GREEN			249
250 HEATER & A/C CONTROL SW. (LO-NORM) TO POWER SERVO	20	ORANGE				250
253 INTERMEDIATE TERM 3 SPEED AXLE SWITCH TO SOLENOID VALVE FORWARD TANDEN	13	RED				253
254 HIGH TERMINAL 3 SPEED AXLE SWITCH TO SOLENOID VALVE REAR TANDEN	1	BLACK				254
255 AXLE LOCKOUT DIFFERENTIAL SWITCH FEED	157	LT BLUE		RED		255
260 BLOWER MOTOR TO SWITCH - LO	119	RED		ORANGE		260
261 BLOWER MOTOR TO SWITCH - HI	21	ORANGE	BLACK			261
262 STARTING MOTOR RELAY TO IGN. COIL "I" TERM.	62	BROWN	PINK			262
269 HEATER BLOWER MOTOR TO SWITCH (MEDIUM)	159	LT BLUE		ORANGE		269
*282 TURN SIGNAL SW. TO RH REAR TURN SIGNAL LAMP	64	DK GREEN				282
*283 TURN SIGNAL SW. TO LH REAR TURN SIGNAL LAMP	28	YELLOW	BLACK			283
*284 BATTERY FEED TO STOPLAMP SWITCH	13	RED				284
287 SPEAKER VOICE COIL RETURN	103	BLACK		WHITE		287
290 FUSED ACCY FEED #1	56	WHITE	PURPLE			290
297 ACCY. FEED FROM IGNITION SWITCH	101	BLACK		LT GREEN		297
298 FUSED ACCY FEED #2	162	PURPLE		ORANGE		298
306 SEAT REG. SW. TO HORIZ. SOLENOID BATT. TERM.	40	LT BLUE				306
307 SEAT REG. SW. TO VERT. SOLENOID BATT. TERM.	50	WHITE				307
313 LEFT FRONT WINDOW REGULATOR SWITCH TO RIGHT FRONT WINDOW REGULATOR MOTOR	28	YELLOW	BLACK			313
314 LEFT FRONT WINDOW REGULATOR SWITCH TO RIGHT FRONT WINDOW REGULATOR MOTOR	14	RED	BLACK			314
316 LEFT FRONT WINDOW REGULATOR SWITCH TO LEFT REAR WINDOW REGULATOR MOTOR	31	YELLOW	LT BLUE			316
317 LEFT FRONT WINDOW REGULATOR SWITCH TO LEFT REAR WINDOW REGULATOR MOTOR	122	RED		LT BLUE		317
319 LEFT FRONT WINDOW REGULATOR SWITCH TO RIGHT REAR WINDOW REGULATOR MOTOR	136	YELLOW		BLACK		319
320 LEFT FRONT WINDOW REGULATOR SWITCH TO RIGHT REAR WINDOW REGULATOR MOTOR	117	RED		BLACK		320
328 WINDOW REG. MASTER COIL. SW. TO WIND. REG. SW. FEED	203	RED			YELLOW	328
333 WINDOW REG SW TO WINDOW REG MOTOR	29	YELLOW	RED			333
334 WINDOW REG SW TO WINDOW REG MOTOR	16	RED	YELLOW			334
347 COMPRESSOR CLUTCH FEED	100	BLACK		YELLOW		347
348 THERMOSTATIC SW. TO AIR COND. SW. SELECTION TERM.	150	LT GREEN		PURPLE		348
364 BLOWER MOTOR RELAY FEED	4	BLACK	LT GREEN			364
365 FUEL LEVEL WARNING RELAY FEED	157	LT BLUE		RED		365
366 FUEL WARNING RELAY CONTROL	117	RED				366
367 FUEL LEVEL RECEIVER TO FUEL LEVEL WARNING RELAY (REC. TERM)	228	DK GREEN			WHITE	367
369 VACUUM SOLENOID TO TEMP. SW.	105	BROWN		ORANGE		369
371 BLOWER MOTOR RELAY TO MOTOR	129	PINK		WHITE		371
372 MOVABLE STEERING COLUMN SOLENOID FEED	221	YELLOW			LT GREEN	372
379 TURN SIGNAL SWITCH TO RH CORNERING LAMP	109	BROWN		WHITE		379
380 TURN SIGNAL SWITCH TO LH CORNERING LAMP	4	PURPLE	YELLOW			380
381 MOVABLE STEERING COLUMN SOLENOID TO COURTESY LAMP SWITCH	26	ORANGE	WHITE			381
383 EMERGENCY WARNING FLASHER FEED	123	RED		WHITE		383
385 FLASHER TO EMERGENCY WARNING SWITCH	174	WHITE		RED		385
387 HEADLAMP SWITCH TO HEADLAMP (LH)	33	LT GREEN				387
389 HEATER BLOWER SWITCH FEED	9	BROWN	YELLOW			389
400 SAFETY RELAY LOAD TERM. TO WIND. REG. SW. FEED	259	LT BLUE			BLACK	400
401 LIMIT SW. TO BACK WINDOW REG. MOTOR	73	GRAY	BLACK			401
402 WINDOW REG SW TO BACK WINDOW REG MOTOR	74	GRAY	RED			402
403 WINDOW REG. SW. TO WIND. REG. MOTOR	78	GRAY	WHITE			403
404 WINDOW REG. SW. TO BACK WIND. SW.	86	PURPLE	LT GREEN			404
405 WINDOW REG. SW. TO BACK WIND. SW.	87	PURPLE	LT BLUE			405
406 WINDOW REG. SW. TO BACK WIND. AUX. SW.	99	TAN				406
407 WINDOW REG. SW. REAR TO LIMIT SW.	91	TAN	BLACK			407
408 WINDOW REG. SW. FRONT TO LIMIT SW.	92	TAN	RED			408
409 PRESSURE SWITCH TO KEY SWITCH	193	TAN			BLACK	409
442 SEQUENTIAL LH REAR INBOARD TURN SIGNAL LAMP	36	LT GREEN	ORANGE			442
443 SEQUENTIAL LH REAR OUTBOARD TURN SIGNAL LAMP	35	LT GREEN	RED			443
444 SEQUENTIAL RH REAR INBOARD TURN SIGNAL LAMP	34	LT GREEN	BLACK			444
445 SEQUENTIAL RH REAR OUTBOARD TURN SIGNAL LAMP	25	ORANGE	LT BLUE			445
446 SEQUENTIAL RH REAR CENTER TURN SIGNAL LAMP	26	ORANGE	WHITE			446
447 SEQUENTIAL RH REAR OUTBOARD TURN SIGNAL LAMP	22	ORANGE	RED			447
450 SEAT BELT WARNING INDICATOR LAMP FEED	67	DK GREEN	LT GREEN			450
454 IGN. SW. COIL TERM. TO CIRCUIT BREAKER	17	RED	LT GREEN			454
455 CIRCUIT BREAKER TO FUEL VALVE	140	LT GREEN		YELLOW		455
458 TURN SIGNAL SWITCH TO INDICATOR RELAY	130	ORANGE		BLACK		458
459 INDICATOR RELAY TO FLASHER	24	ORANGE	LT GREEN			459
460 HORN SWITCH FEED	222	YELLOW			LT BLUE	460
469 SEAT BELT WARNING SWITCH FEED	33	LT GREEN				469
475 STOPLAMP SW. TO STOPLAMP RELAY (COIL TERM)	98	PINK	BLACK			475
478 FOG LAMP SW. TO FOG LAMP	145	DK GREEN		WHITE		478
485 IGNITION SWITCH ACCY. TERM. TO DECK LID OPEN WARNING LAMP	93	TAN	ORANGE			485
486 DECK LID OPEN WARNING LAMP TO DECK LID OPEN SWITCH	104	BROWN		PINK		486
487 HEADLAMP SWITCH TO HEADLAMP FLASHER	192	BROWN			WHITE	487
494 TURN SIGNAL RELAY TO TURN SIGNAL FLASHER	81	PINK	ORANGE			494
500 HEADLAMP DIMMER SWITCH TO HEADLAMP DIMMER RELAY	114	TAN		LT GREEN		500
502 HEADLAMP DIMMER RELAY TO HEADLAMP DIMMER SWITCH	46	PURPLE				502
503 HEADLAMP DIMMER RELAY TO FUSE HOLDER	49	GRAY				503
504 FUSE HOLDER TO HEADLAMP DIMMER AMPLIFIER	40	LT BLUE				504
505 HEADLAMP DIMMER SWITCH TO HEADLAMP DIMMER AMP.IFIER	155	DK BLUE		WHITE		505
507 AMPLIFIER TO RHEOSTAT	1	BLACK				507
508 RHEOSTAT TO SENSOR	27	YELLOW				508
509 AIR COND. CONDENSOR THERMAL SWITCH FEED	50	WHITE				509
511 STOPLAMP SW. TO TURN SIGNAL SW.	94	TAN				511
512 RESISTOR TO BLOWER MOTOR (HT)	33	LT GREEN	YELLOW			512
517 CIRCUIT BREAKER (LOAD TERM) TO CONTROL SW. (BATT. TERM)	22	ORANGE	RED			517
519 GLOW PLUG SW. TO LAMP (FEED)	6	BLACK	WHITE			519
520 SEAT BELT WARNING LAMP TO WARNING LAMP SWITCH	50	WHITE				520
526 CIRCUIT BREAKER TO MARKER LAMP SW. FEED	166	PURPLE		WHITE		526
527 HEADLAMP DIMMER SWITCH OVERRIDE TO RHEOSTAT	6	BLACK	WHITE			527
530 BLOWER MOTOR RELAY (LOAD TERM) TO BLOWER MOTOR	13	RED				530
568 ALTERNATOR RELAY TO ALTERNATOR REGULATOR	184	BLACK			LT GREEN	568
587 WINDSHIELD WIPER INTERMITTENT GOVERNOR FEED	33	LT GREEN				587
589 WINDSHIELD WIPER INTERMITTENT GOVERNOR GROUND	103	BLACK		WHITE		589
590 INTERMITTENT GOVERNOR TO WIPER SWITCH	20	ORANGE				590
591 SPEED CONTROL RELAY TO SPEED REGULATOR	72	DK BLUE	WHITE			591
592 STOPLAMP SW. TO SPEED CONTROL RELAY	2	BLACK	ORANGE			592
593 SPEED CONTROL ACTUATOR TO CUTOFF RELAY	161	LT BLUE		WHITE		593
594 BRAKE SW. TO OIL PRESSURE SAFETY SWITCH	27	YELLOW				594
597 COIL TERM. OF IGN. SW. TO OIL PRESSURE SAFETY SWITCH	182	BLACK			ORANGE	597
598 COIL TERM. OF IGN. SW. TO FUEL PUMP PRIMER SWITCH	13	RED				598
601 BRAKE SKID CONTROL MODULE FEED	82	PINK	YELLOW			601
602 COIL TERM. OF IGN. SWITCH TO BRAKE SKID CONTROL MODULE	58	LT BLUE	PINK			602
604 SKID CONTROL MODULE TO RH WHEEL SENSOR HI	121	RED		LT GREEN		604
626 OPEN DOOR WARNING LAMP FEED	131	ORANGE		RED		626
627 OPEN DOOR WARNING LAMP TO OPEN DOOR WARNING SWITCH	126	PINK		YELLOW		627
632 IGN. SW. COIL TERM. TO OIL TEMP. WARNING LAMP	90	BLACK		ORANGE		632
633 IGN. SW. TO OIL TEMP. WARNING RELAY	1	BLACK				633
634 OIL TEMP. WARNING RELAY TO OIL TEMP. WARNING LAMP	13	RED				634
635 OIL TEMP. WARNING LAMP TO OIL TEMP. WARNING SWITCH	40	LT BLUE				635
640 WARNING LAMPS FEED	34	LT GREEN				640
642 WATER TEMP. WARNING LAMP TO WATER TEMP. SW. (COLD)	120	RED		YELLOW		642
	54	WHITE	LT GREEN			642

CAR STANDARD WIRE COLOR CODE CHART

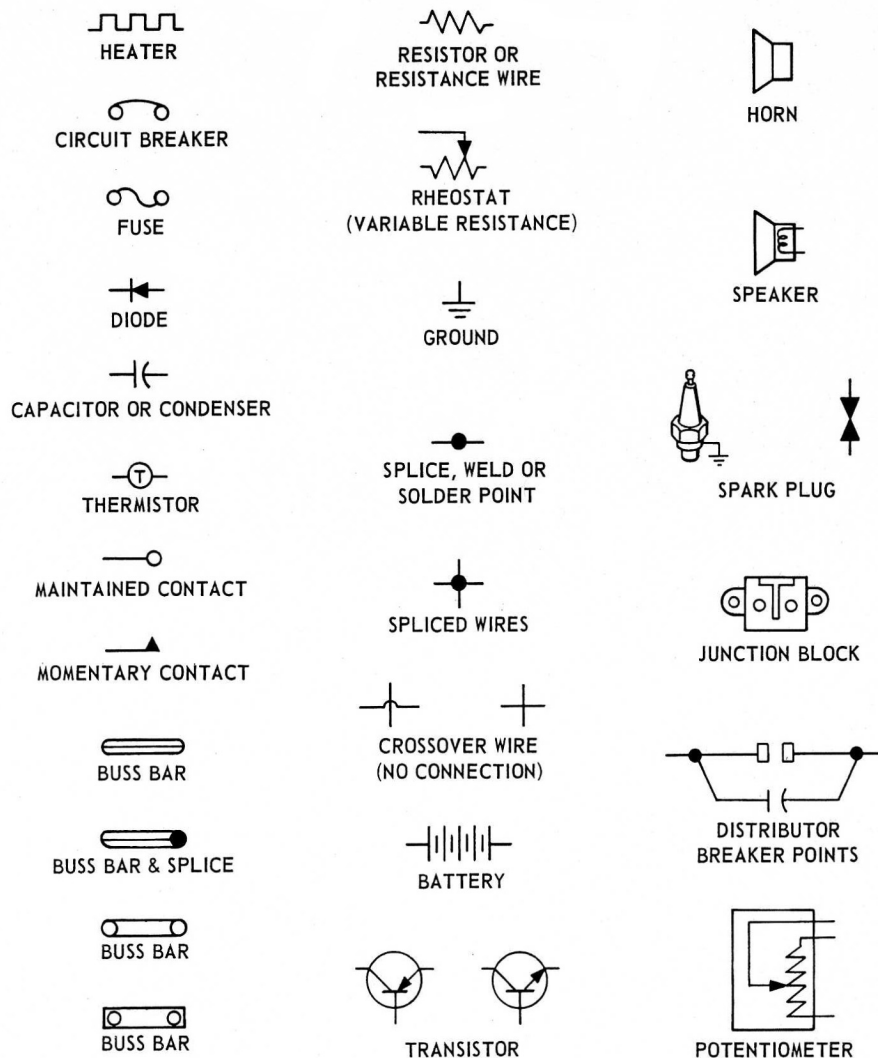
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CIRCUITS IN CURRENT USE

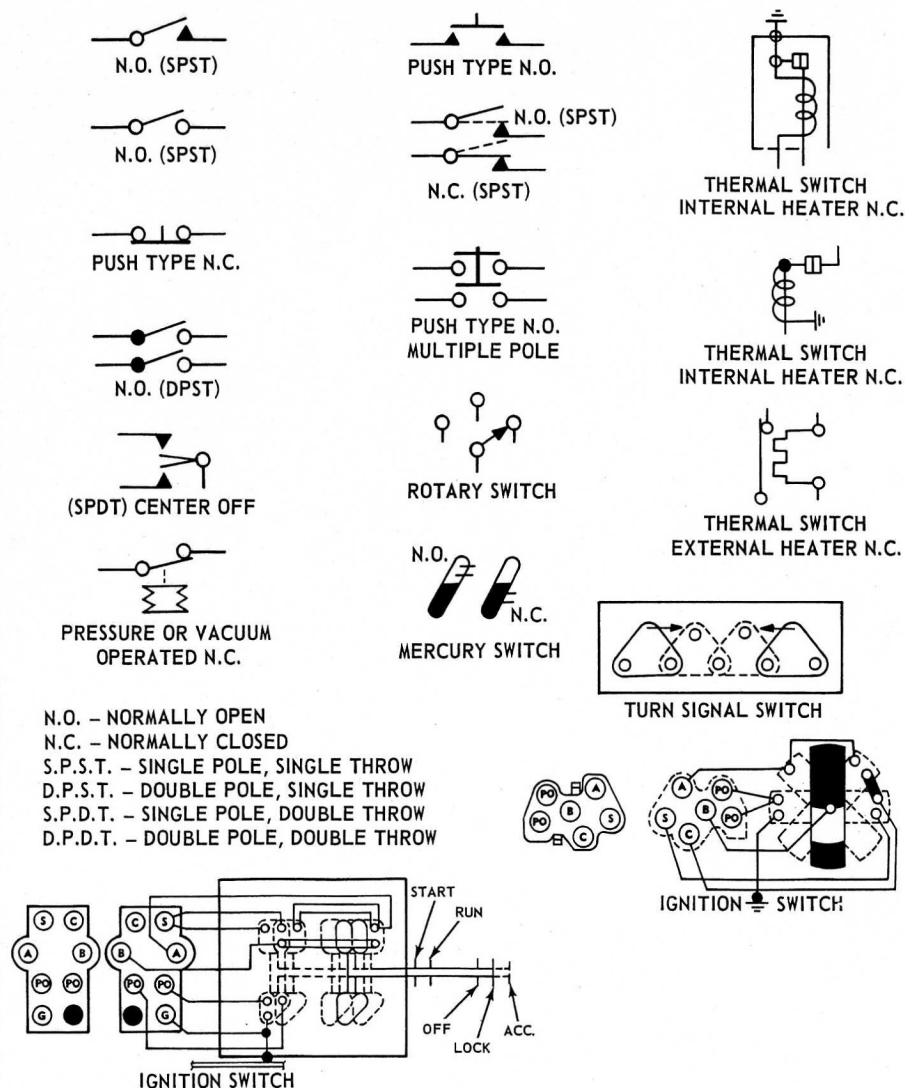
CIRCUIT	COLOR NO.	BASE	STRIPE	WASH	DUT	CIRCUIT
647 WATER TEMP. WARNING LAMP TO WATER TEMP. SWITCH (HOT)	200	RED			BLACK	647
648 TACHOMETER FEED	205	RED			LT BLUE	648
654 ALT. SHUNT TO AMMETER	30	YELLOW	LT GREEN			654
655 STARTING MOTOR RELAY SHUNT TO AMMETER	15	RED	ORANGE			655
660 AIR COND. CONTROL SW. TO FRESH-AIR RECIRC. DOOR SOLENOID	221	YELLOW			LT GREEN	660
671 SPEED REG. SW. "ON" POSITION TO ON & OFF RELAY	50	WHITE				671
672 SELECTOR SW. TO LEFT HAND PUMP MOTOR	104	BROWN		WHITE		672
673 SELECTOR SW. TO LEFT FUEL GAGE	33	LT GREEN				673
674 SELECTOR SW. TO RIGHT HAND PUMP MOTOR	12	BROWN	WHITE			674
675 SELECTOR SW. TO RIGHT FUEL GAGE	35	LT GREEN	RED			675
683 F/L SW. "R" TERM. TO TRACTOR-TRAILER RELAY "F" TERM.	187	BROWN			PINK	683
684 TRACTOR-TRAILER RELAY "A" TERM. TO MARKER LAMP SW.	6	BLACK	WHITE			684
686 HEAD LP TIME DELAY CONTROL RELAY TO CIR. BREAKER	75	GRAY	ORANGE			686
687 ACC FEED	76	GRAY	YELLOW			687
688 FTO BACKLITE SW. TO TIME DELAY RELAY	77	GRAY	LT BLUE			688
697 SPEED REG. SW. "OFF" POSITION TO ON & OFF RELAY	21	ORANGE	BLACK			697
745 ANTENNA SWITCH TO POWER ANTENNA (UP)	119	RED		PINK		745
746 ANTENNA SWITCH TO POWER ANTENNA (DOWN)	66	DK GREEN	YELLOW			746
751 BLOWER MOTOR SPEED CONTROLLER TO RESISTOR #3 (MED.)	155	DK BLUE		WHITE		751
752 BLOWER MOTOR SPEED CONTROLLER TO RESISTOR #2 (MED.)	220	YELLOW			RED	752
753 HEATER & A/C CONTROL SW. TO BLOWER RELAY SW.	29	YELLOW	RED			753
754 BLOWER MOTOR SPEED CONTROLLER TO RESISTOR #1 (MED.)	151	LT GREEN		WHITE		754
755 BLOWER MOTOR SWITCH RELAY TO RESISTOR (LOW SPEED)	12	BROWN	WHITE			755
756 HEATER AND A/C CONTROL SW. (HI-NORM) TO RESISTOR (LOW RANGE)	201	RED			PINK	756
757 HEATER & A/C CONTROL SW. (HI-NORM) TO BLOWER MOTOR SW. RELAY	19	RED	WHITE			757
758 HEATER AND A/C CONTROL SW. (LO-NORM) TO RESISTOR (LOW RANGE)	240	PURPLE			WHITE	758
761 BLOWER MOTOR RELAY TO ENG. WATER TEMP. SWITCH (COLD)	54	WHITE	LT GREEN			761
765 HEATER AND A/C CONTROL SW. TO REHEAT & A/C FEED	149	LT GREEN		YELLOW		765
766 HEATER AND A/C CONTROL SW. (DEF-UG) TO INLET AIR CONTROL SOLENOID	204	RED			LT GREEN	766
767 AMBIENT SENSOR TO INST. PANEL THERMISTOR	43	LT BLUE	ORANGE			767
768 REFERENCE SENSOR TO HEAT DUCT THERMISTOR	149	LT GREEN		YELLOW		768
769 HEATER & A/C CONTROL SW. (HI & LO NORM) TO BLOWER MTR. SW. RELAY	160	LT BLUE		YELLOW		769
773 HEATER & A/C CONTROL SW. (TEMP. SELECTOR) TO REHEAT AMPL.	141	DK GREEN		ORANGE		773
775 HEATER & A/C CONTROL SW. (DEFROG) TO DEFROST CONT. SOLENOID	84	WHITE	PINK			775
776 CLIMATE CONTROL BOX TO HIGH BLOWER RELAY	213	ORANGE			BLACK	776
780 ENGINE ALARM RELAY/OIL PRESS. "F" TERM. TO "A" TERM. IGN. SW.	13	RED				780
787 FUEL PUMP SAFETY SWITCH TO FUEL PUMP MOTOR	124	PINK		BLACK		787
788 REHEAT AMPLIFIER TO HEAT DUCT THERMISTOR	202	RED			ORANGE	788
790 HEATER AND A/C CONTROL SW. TO INST. PANEL THERMISTOR	53	WHITE	ORANGE			790
797 BATTERY FEED TO STEREO	38	LT GREEN	PURPLE			797
804 SPEAKER VOICE COIL FEED-FRONT (LEFT CHANNEL)	133	ORANGE		LT GREEN		804
805 SPEAKER VOICE COIL FEED-FRONT (RIGHT CHANNEL)	178	WHITE		LT GREEN		805
806 SPEAKER VOICE COIL FEED-REAR (RIGHT CHANNEL)	84	PINK	LT BLUE			806
807 SPEAKER VOICE COIL FEED-REAR (LEFT CHANNEL)	83	PINK	LT GREEN			807
810 SELECTOR SWITCH TO FUEL TANK SOLENOID VALVE	8	BROWN	ORANGE			810
811 STOP LAMP SW. TO STOP LAMP	121	RED		LT GREEN		811
817 INDICATOR RELAY TO RH TURN LAMP	115	TAN		LT BLUE		817
818 INDICATOR RELAY TO LH TURN LAMP	116	TAN		WHITE		818
822 SPEAKER VOICE COIL FEED	184	BLACK			LT GREEN	822
823 RADIO TO FADER CONTROL	33	LT GREEN				823
848 BALLAST RESISTOR "E" TERM. TO TRANSISTOR UNIT "E" TERM.	202	RED			ORANGE	848
850 BALLAST RESISTOR COIL TERM. TO COIL, COIL BATT. TERM.	241	LT BLUE			WHITE	850
851 TRANSISTOR UNIT "M" TERM. TO DISTRIBUTOR	33	LT GREEN				851
852 TRANSISTOR UNIT "C" TERM. TO BALLAST RESISTOR "C" TERM.	158	LT BLUE		PINK		852
853 COIL TERM. IGN. SW. TO BALLAST RESISTOR "E" TERM.	119	RED		ORANGE		853
854 C.S. RELAY TO STARTER SOLENOID "I" TERM.	106	BROWN		YELLOW		854
858 MAKE READY SWITCH TO BRAKE PEDAL PAD SWITCH	125	PINK		ORANGE		858
859 BRAKE PEDAL PAD SWITCH TO CONTROL RELAY TERM. #4	27	YELLOW				859
860 MAKE READY SWITCH TO SET SPEED SWITCH	48	PURPLE	WHITE			860
861 RETARD SWITCH TO CONTROL RELAY TERM. #7	45	LT BLUE	WHITE			861

863 BRAKE SWITCH TO HOLDING RELAY	3	BLACK	YELLOW			863
869 RETARD VALVE TO CONTROL RELAY TERM. #1	37	LT GREEN	YELLOW			869
870 EMERGENCY STOP LAMP SWITCH TO TRACTOR-TRAILER PLUG	13	RED				870
883 AIR COND. CONTROL RELAY FEED	129	PINK		LT BLUE		883
904 (COIL) OR (ACCY.) TERM. OF IGN. SW. TO ALT. REG. (IGN. TERM.)	35	LT GREEN	RED			904
914 SPEED REGULATOR SWITCH FEED	65	DK GREEN	ORANGE			914
917 VENT SWITCH TO BLOWER MOTOR LO	127	PINK		LT GREEN		917
920 BRAKE SW. TO SPEED CONTROL REG.	177	WHITE		YELLOW		920
923 SPEED CONTROL SW. TO SPEED REG. SOLENOID	46	PURPLE				923
924 HOLDING RELAY TO SPEED CONTROL SW. FEED	11	RED				924
925 SPEED CONTROL SW. TO SPEED REG. COUPLING COIL	53	WHITE	ORANGE			925
934 TRANSMISSION SPEED SENSOR TO MODULATOR CONTROL	97	TAN	WHITE			934
939 MODULATOR TO THERMO. SW.	110	TAN		BLACK		939
941 WASHER PUMP MOTOR FEED	6	BLACK	WHITE			941
943 TRACTOR TRAILER RELAY "B" FEED	144	DK GREEN		PURPLE		943
946 REAR WASHER PUMP FEED	164	PURPLE		LT GREEN		946
950 WASHER CONTROL SWITCH FEED	51	WHITE	BLACK			950
955 W/SHIELD WIPER MOTOR ARM RH TO W/S WIPER SWITCH	15	RED	ORANGE			955
959 W/SHIELD WIPER SW. TO W/SHIELD WIPER MOTOR FIELD RH	36	LT GREEN	ORANGE			959
960 AUX. HEATER FEED TO SWITCH	203	RED			YELLOW	960
962 DIFF. TEMP. SW. TO FRONT DIFFERENTIAL	204	RED			LT GREEN	962
963 DIFF. TEMP. TO REAR DIFFERENTIAL	143	DK GREEN		LT GREEN		963
972 TRANSMISSION TEMPERATURE LAMP INDICATOR FEED	117	RED		BLACK		972
976 FUSE PANEL TO FUEL GAGE INDICATOR	184	BLACK			LT GREEN	976
977 BRAKE WARNING SWITCH TO INDICATOR LAMP	43	PURPLE	WHITE			977
978 SEAT REGULATOR SWITCH TO FRONT MOTOR (LH)	31	YELLOW	LT BLUE			978
979 SEAT REGULATOR SWITCH TO FRONT MOTOR (RH)	19	RED	LT BLUE			979
980 SEAT REGULATOR SWITCH TO HORZ. MOTOR (LH)	32	YELLOW	WHITE			980
981 SEAT REGULATOR SWITCH TO HORZ. MOTOR (RH)	19	RED	WHITE			981
982 SEAT REGULATOR SWITCH TO REAR MOTOR (LH)	30	YELLOW	LT GREEN			982
983 SEAT REGULATOR SWITCH TO REAR MOTOR (RH)	17	RED	LT GREEN			983
984 SEAT REGULATOR SWITCH TO FRONT MOTOR (LH)	222	YELLOW			LT BLUE	984
985 SEAT REGULATOR SWITCH TO FRONT MOTOR (RH)	205	RED			LT BLUE	985
986 SEAT REGULATOR SWITCH TO HORZ. MOTOR (LH)	225	YELLOW			WHITE	986
987 SEAT REGULATOR SWITCH TO HORZ. MOTOR (RH)	206	RED			WHITE	987
988 SEAT REGULATOR SWITCH TO REAR MOTOR (LH)	224	YELLOW			LT GREEN	988
989 SEAT REGULATOR SWITCH TO REAR MOTOR (RH)	204	RED			LT GREEN	989
993 INTERMITTENT COVER TO WINDSHIELD WIPER SWITCH	12	BROWN	WHITE			993

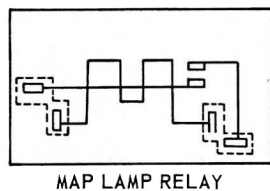
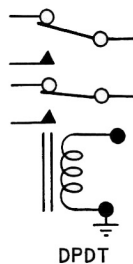
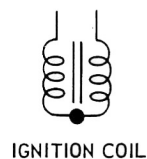
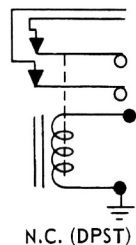
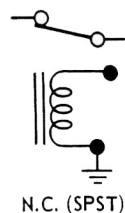
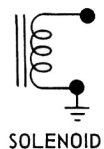
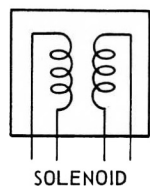
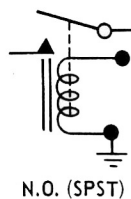
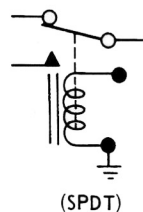
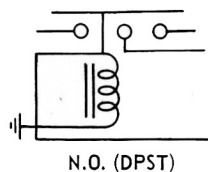
CIRCUIT SYMBOLS



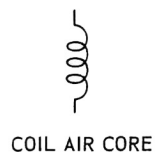
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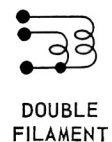
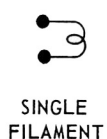
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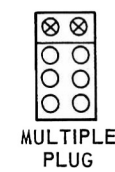
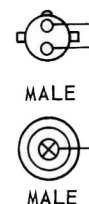
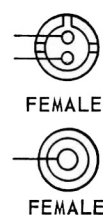
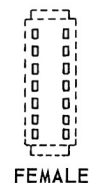
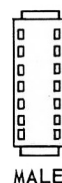
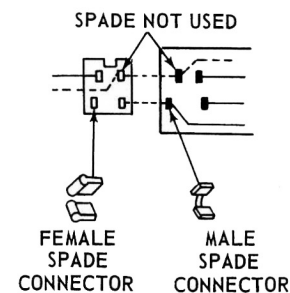
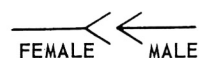
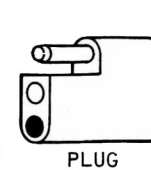
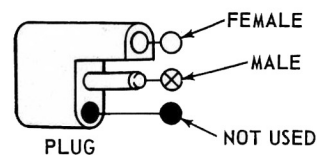
N.O. - NORMALLY OPEN
 N.C. - NORMALLY CLOSED
 S.P.S.T. - SINGLE POLE, SINGLE THROW
 D.P.S.T. - DOUBLE POLE, SINGLE THROW
 S.P.D.T. - SINGLE POLE, DOUBLE THROW
 D.P.D.T. - DOUBLE POLE, DOUBLE THROW



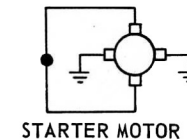
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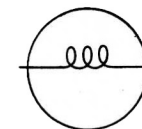
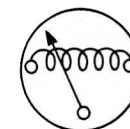
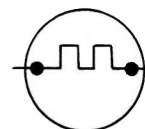
CONNECTORS



MOTORS



GAUGES



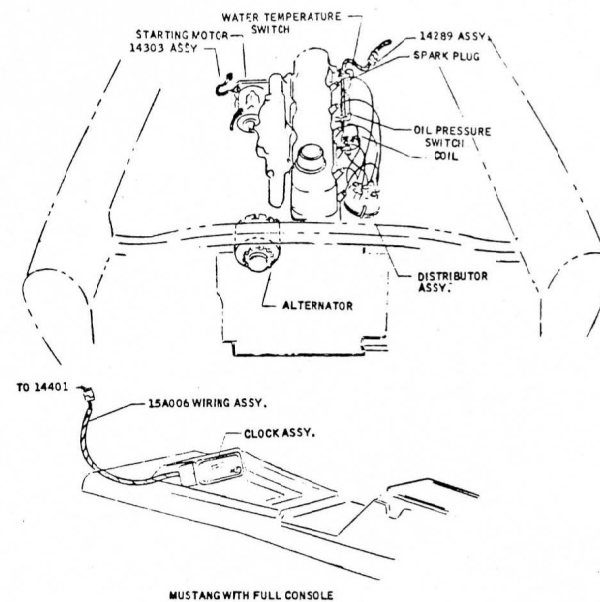
1971 MUSTANG AND COUGAR ELECTRICAL DRAWINGS

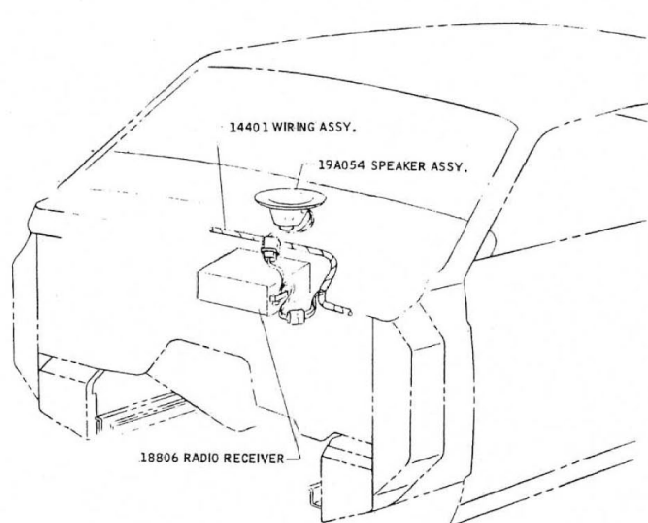
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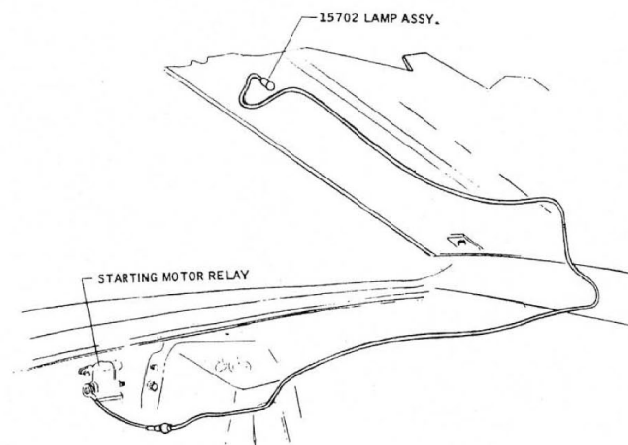
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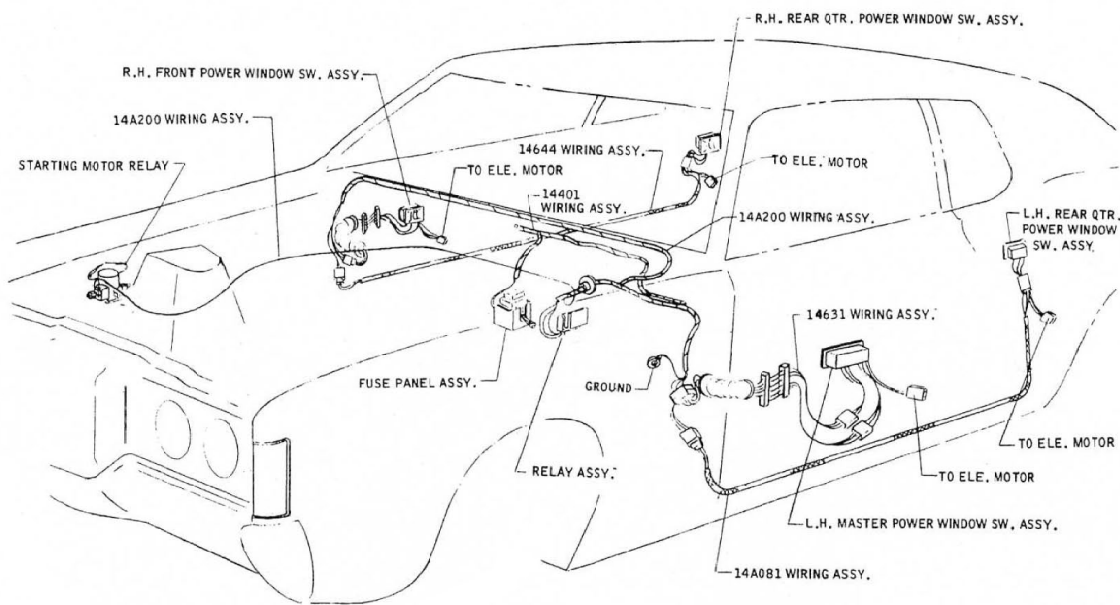




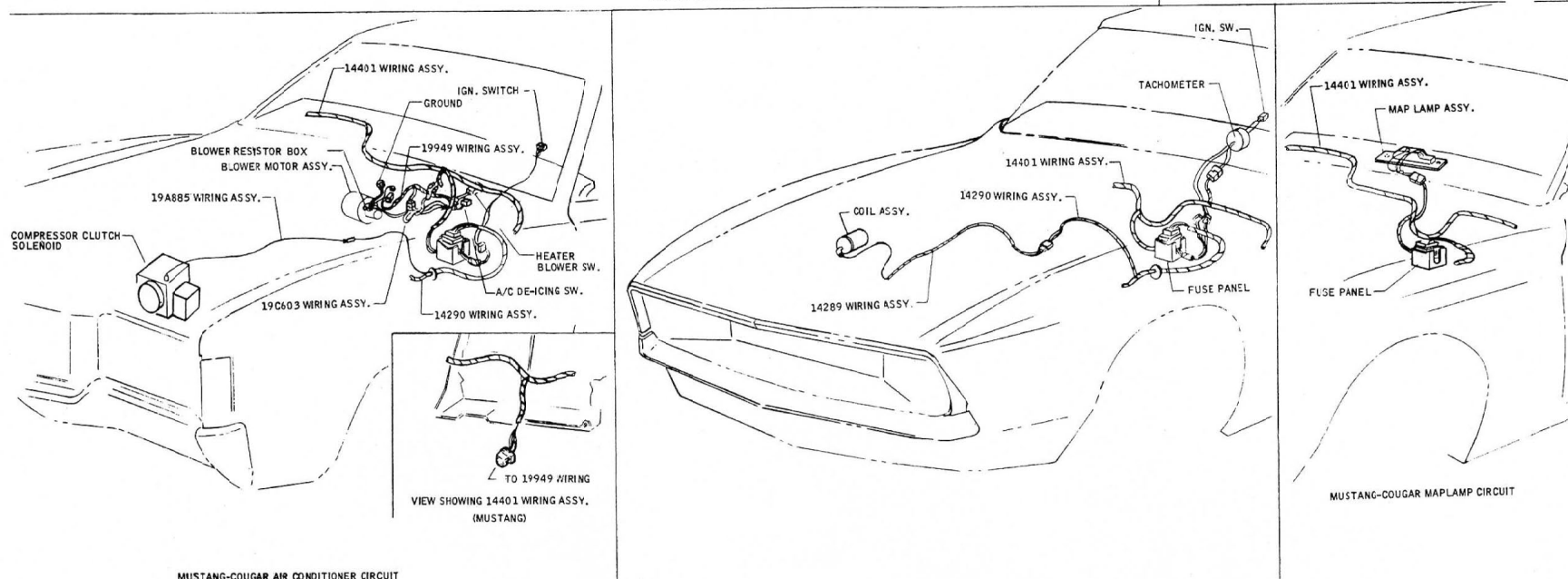
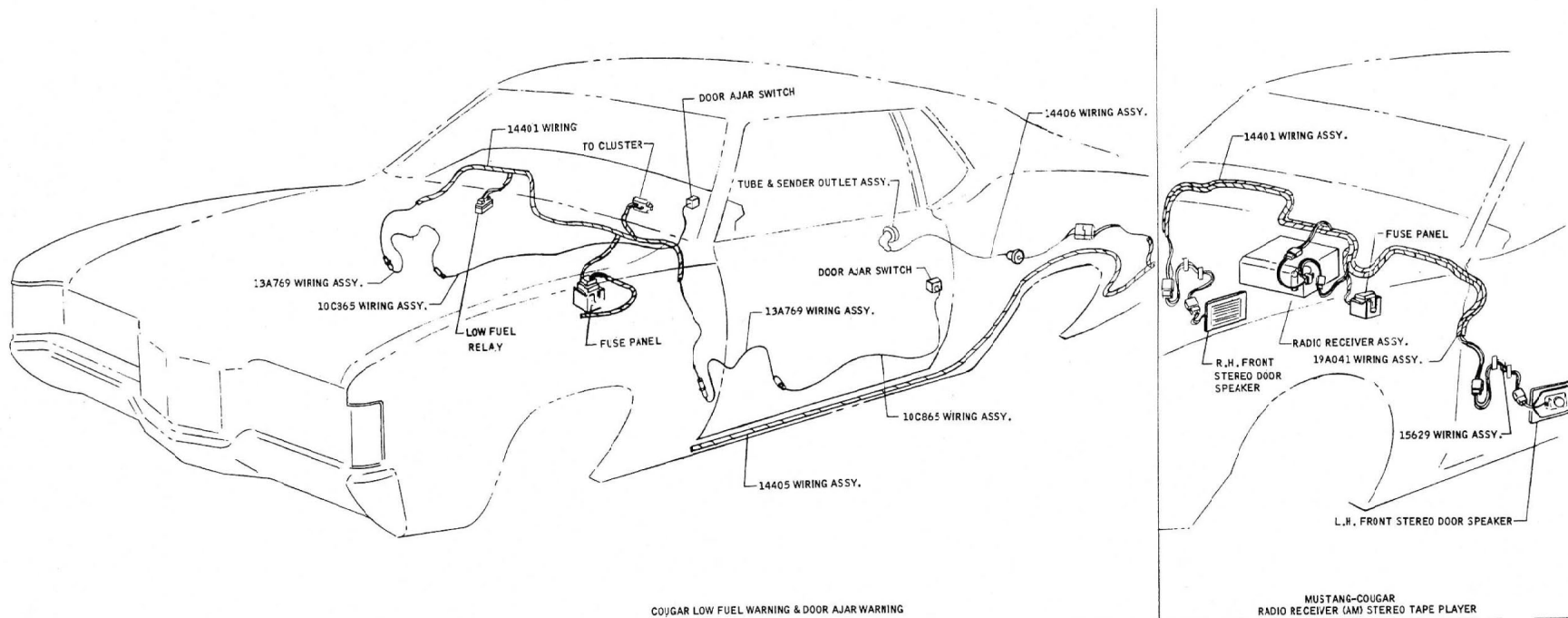
MUSTANG-COUGAR AM RADIO & FRONT SPEAKER



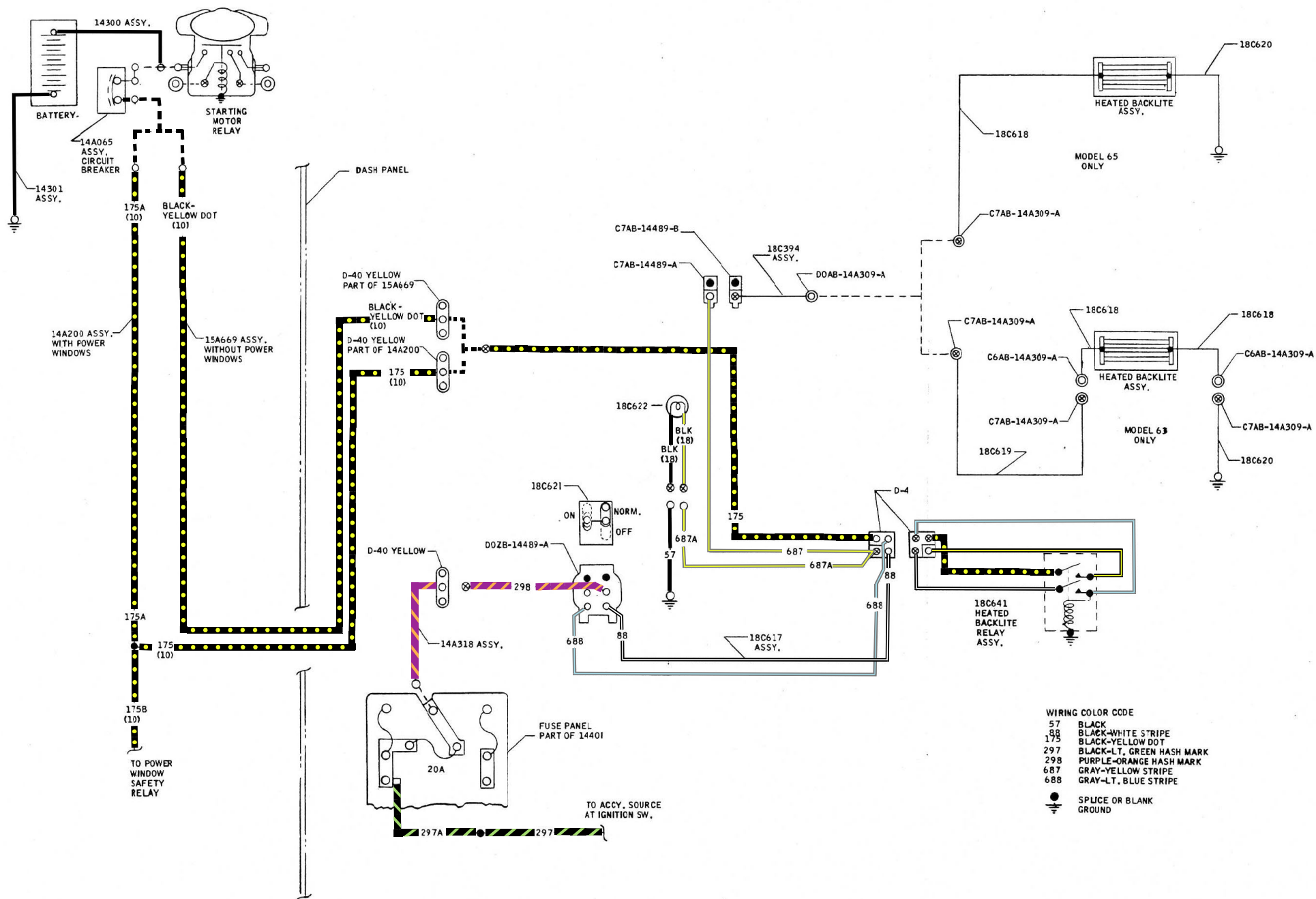
COUGAR-ENGINE COMPARTMENT LAMP



MUSTANG AND COUGAR PICTORIALS

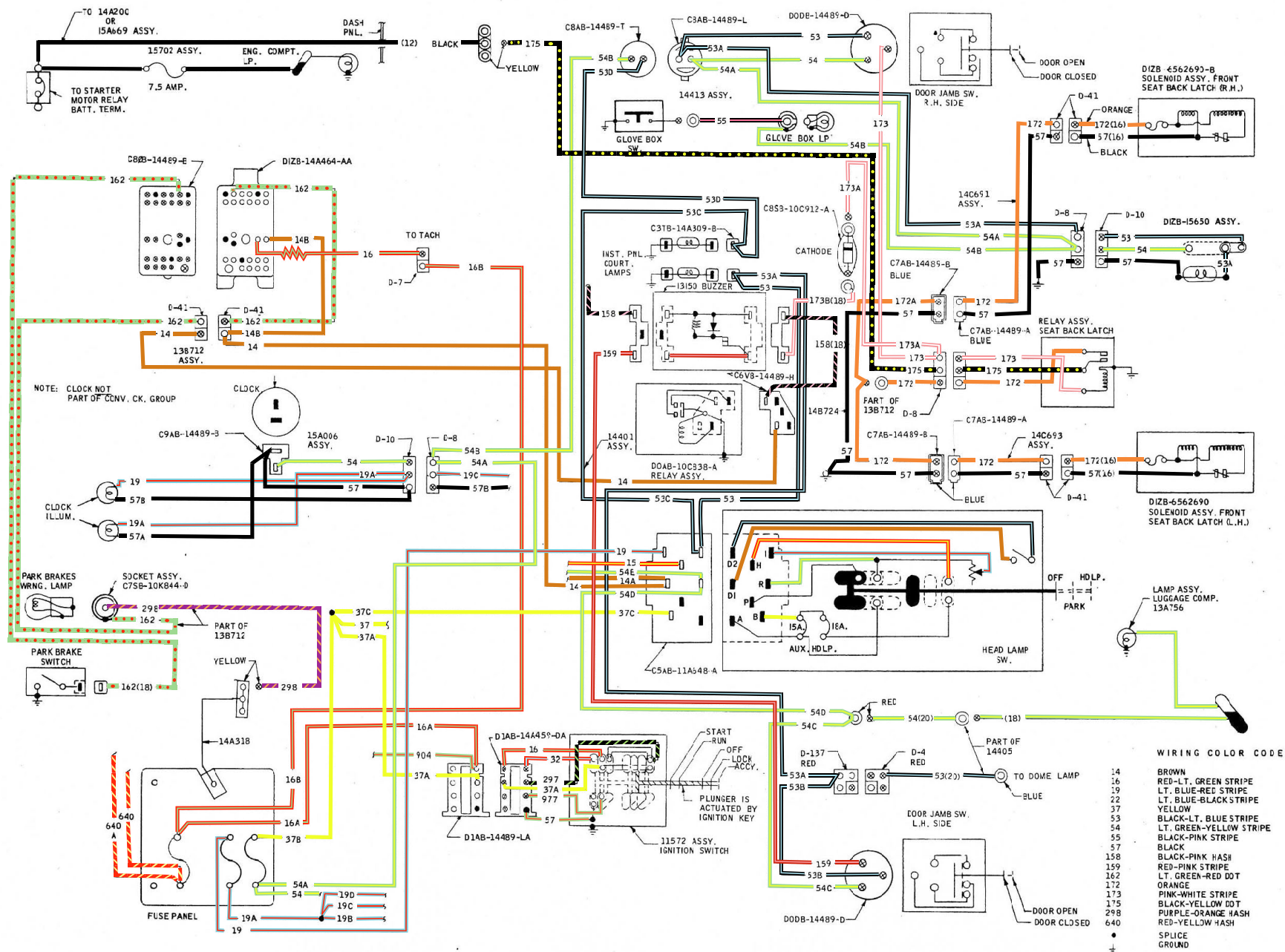


MUSTANG AND COUGAR PICTORIALS



MUSTANG HEATED BACKLITE

2-E6
8-1-70



Source Document
Ford Publication Form 7795P-71

1971

COURSE 13003 and 1703

WIRING and VACUUM DIAGRAMS



**SERVICE
TRAINING**

FORM 7795P-71

1971 VACUUM SYSTEMS INDEX

FORD-MERCURY-METEOR VACUUM SYSTEM

INCLUDES FORCED VENT SYSTEM	V-2
INCLUDES MANUAL AIR CONDITIONER	V-3
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PINTO VACUUM SYSTEM V-8

THUNDERBIRD-MARK III VACUUM SYSTEM V-9

TORINO-MONTEGO VACUUM SYSTEM V-10

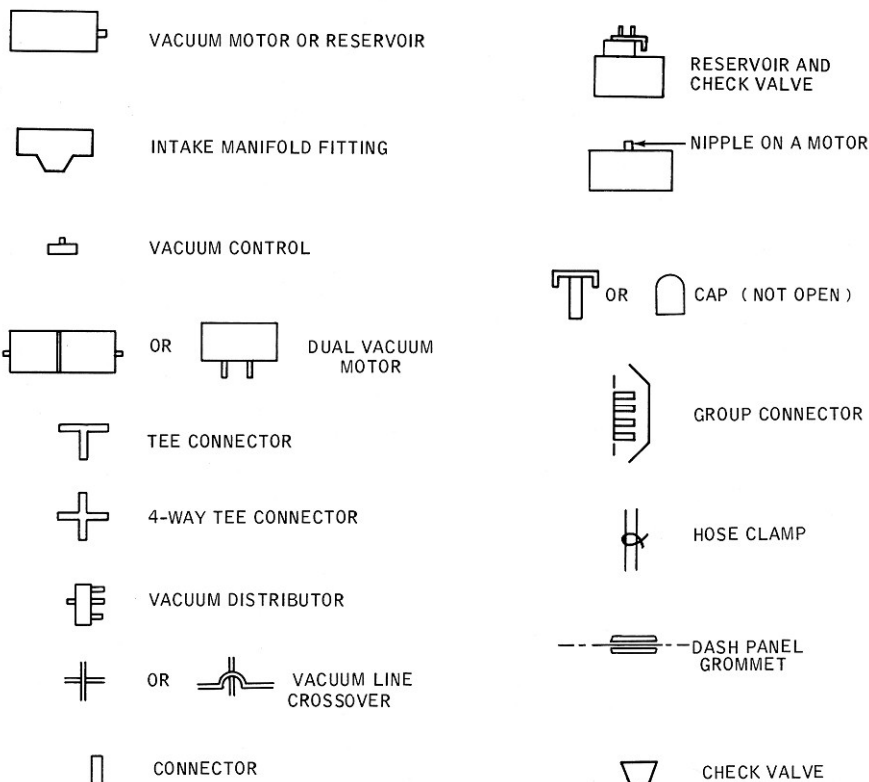
HOW TO USE THE VACUUM DIAGRAMS

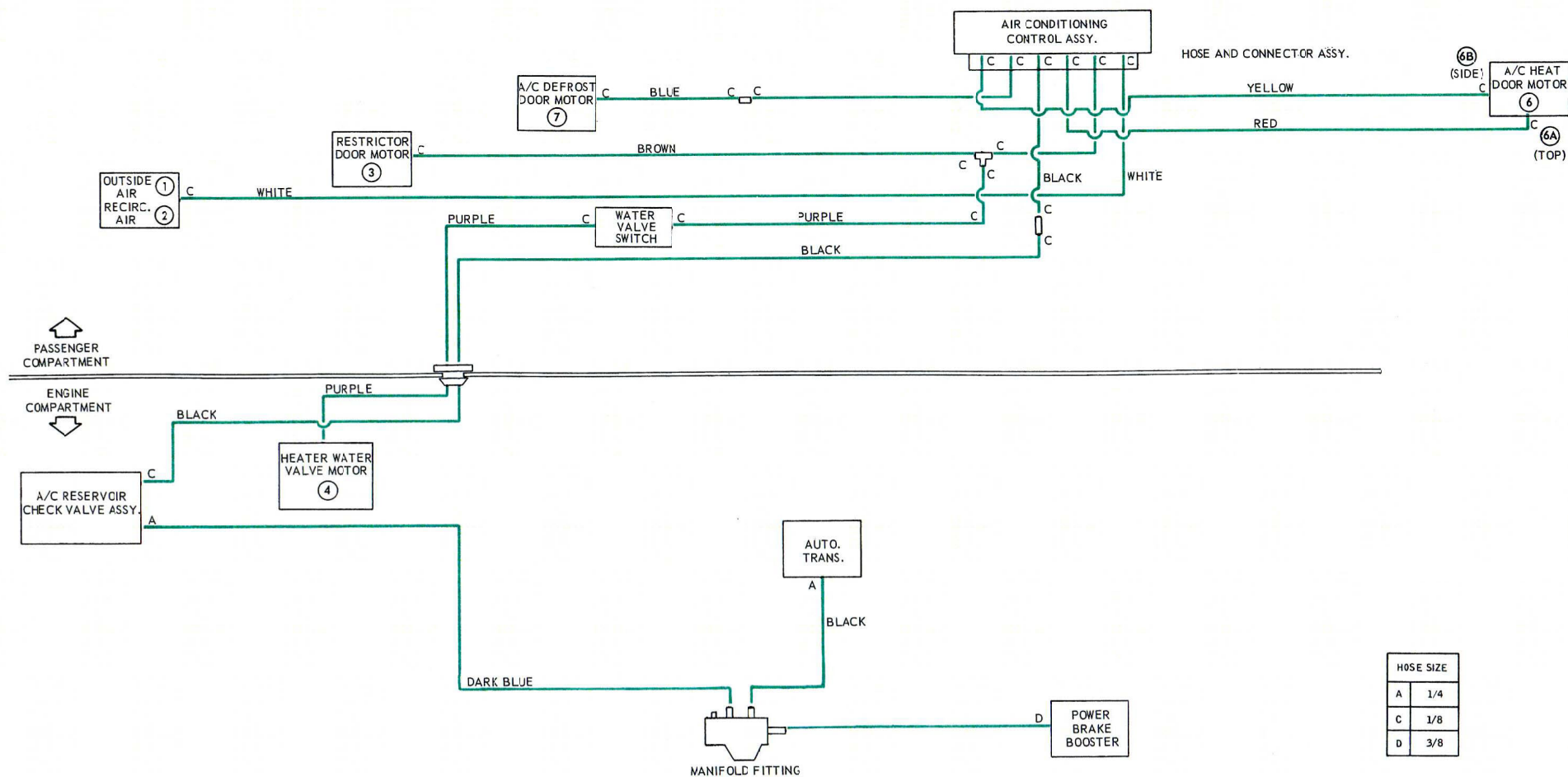
IF IT IS A FORD CAR LINE VACUUM SYSTEM, THE TECHNICIAN WILL FIND A PAGE FOR THE TOTAL SCHEMATIC SYSTEM AS WELL AS A LISTING FOR A SCHEMATIC AND PICTORIAL OF EACH SUBSYSTEM ON EACH SECTION INDEX PAGE. IT IS RECOMMENDED THAT THE TECHNICIAN FIRST TURN TO THE TOTAL SYSTEMS SCHEMATIC TO DETERMINE IF THERE ARE ANY BRANCH SYSTEMS OPERATING FROM THE SAME SOURCE. THIS WILL ASSIST IN LOCATING SYSTEM TROUBLES. HE WILL THEN BE ABLE TO TURN TO A PAGE TO FIND DETAILED INFORMATION ON A PARTICULAR SYSTEM. IN TRACING VACUUM SYSTEMS, IT IS RECOMMENDED THAT A CIRCUIT BE TRACED FROM ITS CONTROL UNIT TO ITS SOURCE OF VACUUM, AND THEN FROM THE CONTROL UNIT TO THE OPERATING UNIT, NOTING POINTS OF POSSIBLE MALFUNCTION AND ACCESSIBILITY.

THE VACUUM SYMBOLS AND THEIR MEANINGS ARE NOTED ON EACH DIVIDER PAGE TO PROVIDE A CLEAR UNDERSTANDING OF THE DIAGRAMS.

VACUUM

CIRCUIT SYMBOLS





MUSTANG-COUGAR VACUUM SYSTEMS

1971 CAR SHOP MANUAL

Source Document
Ford Publication Form 7098-71-3

Includes all Five Volumes:

- Volume I - Chassis
- Volume II - Engine
- Volume III - Electrical
- Volume IV - Body
- Volume V - Pre-Delivery



MAVERICK

TORINO

MUSTANG

FORD

THUNDERBIRD

MONTEGO

COUGAR

COMET

METEOR

MERCURY

LINCOLN
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CONTINENTAL
MARK III

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SERVICE PUBLICATIONS

FIRST PRINTING—SEPTEMBER, 1970

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FOREWORD

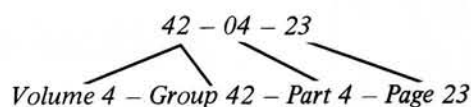
This manual is divided into five volumes: 1 – Chassis, 2 – Engine, 3 – Electrical, 4 – Body, 5 – Maintenance and Lubrication. These volumes should provide Service Technicians with complete information covering normal service repairs on all 1971 model passenger cars (except Pinto) built by the Ford Companies in the U. S. and Canada. Service procedures for the Pinto are covered in the Pinto Car Shop Manual. As changes in the product occur, this information will be updated by Technical Service Bulletins. When issued, TSB information always supersedes that published herein.

Within each volume, information is grouped by system or component plus "General Service" parts which contain information which is common to several similar components.

The table of contents on the first page of each volume indicates the general content of the book and provides a handy tab locator to make it easy to find the first page of each "Group". That page will contain an index to "Parts" and the first page of each "Part" contains a detailed index which gives page location for each service operation covered. Page numbers are consecutive in each "Part".

To make reference easier, information has been broken down into smaller units so that essentially there is now one "Part" for each component or system. Group numbers indicate the volume in which the group may be found.

Indicates:



The descriptions and specifications in this manual were in effect at the time this manual was approved for printing. Ford Marketing Corporation reserves the right to discontinue models at any time, or change specifications or design, without notice and without incurring obligation.



SERVICE PUBLICATIONS

Identification Codes

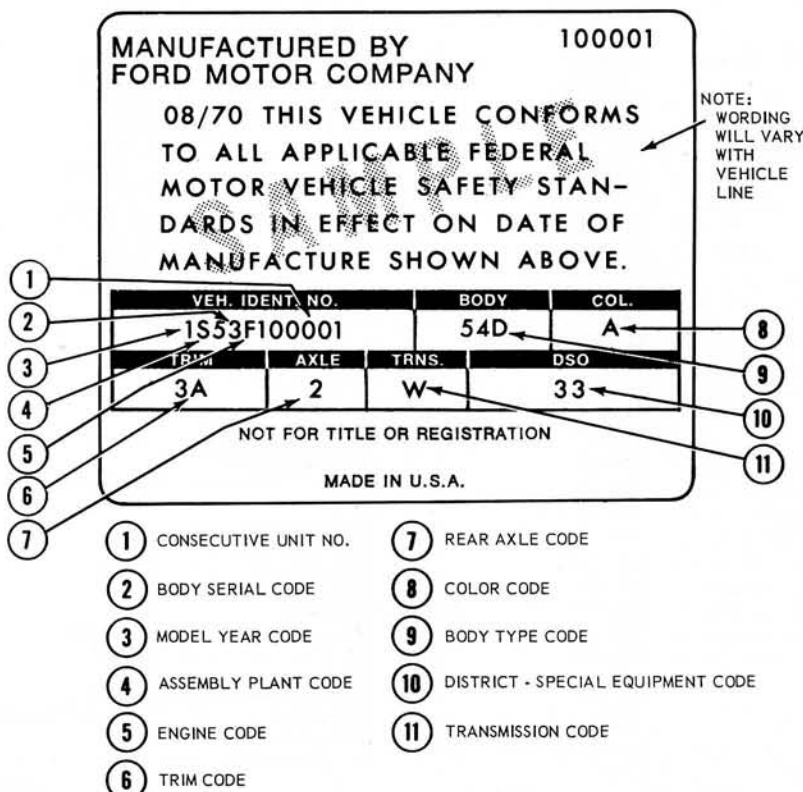
GROUP
30

PART 30-01 Car Identification Codes

OFFICIAL VEHICLE IDENTIFICATION NUMBER

The official Vehicle Identification Number (VIN) for title and registra-

tion purposes is stamped on a metal tab that is riveted to the instrument panel close to the windshield on the driver's side of the car and is visible from outside (Fig. 1).



VEHICLE CERTIFICATION LABEL

The Vehicle Certification Label (V.C. Label) is attached to the rear face of the driver's door. The upper half of the label contains the name of the manufacturer, the month and year of manufacture and the certification statement. The V.C. label also contains the Vehicle Identification Number. This number is also used for Warranty identification of the vehicle. The first number indicates the model year. The letter following the model year number indicates the manufacturing assembly plant. The next two numbers designate the Body Serial Code followed by a letter expressing the Engine Code. The last six digits of the Vehicle Identification Number indicate the Consecutive Unit Number.

The remaining information on the V.C. Label consists of pertinent vehicle identification codes. The **BODY** code is two numerals and a letter identifying the body style. The **COL** (color) code is a number or letter (or both) indicating the exterior paint color code. The **TRIM** code consists of a number-letter combination designating the interior trim. The **axle** code is a number or letter indicating the rear axle ratio and standard or locking type axles. The **TRNS.** code is a number or letter indicating the type of transmission, numerals for manual and letters for automatic. The **DSO** code consisting of two numbers designates the district in which the car was ordered and may appear in conjunction with a Domestic Special Order or Foreign Special Order number when applicable. Ford of Canada **DSO** codes consist of a letter and a number.

MODEL YEAR CODE

The number 1 designates 1971.

Y 1298-A

FIG. 1 . Vehicle Certification Label and Identification Number

CONSECUTIVE UNIT NUMBER

Starting Serial Numbers—1971
Passenger Cars

100,001—Ford, Torino, Mustang,
Thunderbird, Maverick

500,001—Mercury, Meteor,
Montego, Cougar, Comet

800,001—Lincoln Continental &
Continental Mark III

ASSEMBLY PLANT CODES

Code Letter	
A.....	Atlanta
B.....	Oakville (Canada)
E.....	Mahwah
F.....	Dearborn
G.....	Chicago
H.....	Lorain
J.....	Los Angeles
K.....	Kansas City
N.....	Norfolk
P.....	Twin Cities
R.....	San Jose
S.....	Allen Park
T.....	Metuchen
U.....	Louisville
W.....	Wayne
X.....	St. Thomas
Y.....	Wixom

CY-1299-A

DATE CODES

A number signifying the date preceeds the month code letter. A second-year code letter will be used if the model exceeds 12 months.

Month	Code First Year	Code Second Year
January.....	A.....	N
February.....	B.....	P
March.....	C.....	Q
April.....	D.....	R
May.....	E.....	S
June.....	F.....	T
July.....	G.....	U
August.....	H.....	V
September.....	J.....	W
October.....	K.....	X
November.....	L.....	Y
December.....	M.....	Z

DISTRICT CODES (DSO)

Units built on a Domestic Special Order, Foreign Special Order, or other Special orders will have the complete order number in this space. Also to appear in this space is the two-digit code number of the District which ordered the unit. If the unit is a regular production unit, only the District code number will appear.

FORD

Code	District
11.....	Boston
13.....	New York
15.....	Newark
16.....	Philadelphia
17.....	Washington
21.....	Atlanta
22.....	Charlotte
24.....	Jacksonville
25.....	Richmond
28.....	Louisville
32.....	Cleveland
33.....	Detroit
35.....	Lansing
37.....	Buffalo
38.....	Pittsburgh
41.....	Chicago
43.....	Milwaukee
44.....	Twin Cities
46.....	Indianapolis
47.....	Cincinnati
51.....	Denver
53.....	Kansas City
54.....	Omaha
55.....	St. Louis
56.....	Davenport
61.....	Dallas
62.....	Houston
63.....	Memphis
64.....	New Orleans
65.....	Oklahoma City
71.....	Los Angeles
72.....	San Jose
73.....	Salt Lake City
74.....	Seattle
75.....	Phoenix
83.....	Government
84.....	Home Office Reserve
85.....	American Red Cross
89.....	Transportation Services
90-99.....	Export

LINCOLN-MERCURY

Code	District
11.....	Boston
15.....	New York
16.....	Philadelphia
17.....	Washington
21.....	Atlanta
22.....	Dallas
23.....	Jacksonville
26.....	Memphis
31.....	Buffalo
32.....	Cincinnati
33.....	Cleveland
34.....	Detroit
41.....	Chicago
42.....	St. Louis
46.....	Twin Cities
51.....	Denver
52.....	Los Angeles
53.....	Oakland
54.....	Seattle
84.....	Home Office Reserve
90.....	Export

FORD OF CANADA

Code	District
B1.....	Central
B2.....	Eastern
B3.....	Atlantic
11 thru 17.....	Export
B4.....	Midwestern
B6.....	Western
B7.....	Pacific

Note: Canadian Lincoln-Mercury units use prefix "A" in place of "B".

CK2456-B

Charging System

GROUP
31

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Batteries	31-02-01	Autolite Alternator Regulator	31-40-01
PART 31-10		PART 31-42	
Autolite Alternators	31-10-01	Leece-Neville Alternator Regulator	31-42-01

PART 31-01 Charging System General Service

COMPONENT INDEX	PAGE	COMPONENT INDEX	PAGE
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Fuse Link - Charging System	31-01-01	Charging System	31-01-01
REMOVAL AND INSTALLATION	31-01-02	Fuse Link Continuity Test	31-01-02
Fuse Link Replacement	31-01-02		

1 DESCRIPTION AND OPERATION

CHARGING SYSTEM FUSE LINK

The fuse link is a short length of insulated wire integral with the engine compartment wiring harness. It is several wire gages smaller than the circuit that it protects. Production fuse links are black. Service fuse links are green or black depending on usage. All

fuse links have the words FUSE LINK printed on the insulation. Fig. 1 shows fuse link installations.

The fuse link burns out, thus protecting the alternator or wiring, when heavy current flows, such as when a booster battery is connected incorrectly or a short to ground occurs

in the wiring harness.

A burned out link may have bare wire ends protruding from the insulation, or it may only have expanded or bubbled insulation with illegible identification. If it is hard to determine if the link is burned out, perform a continuity test.

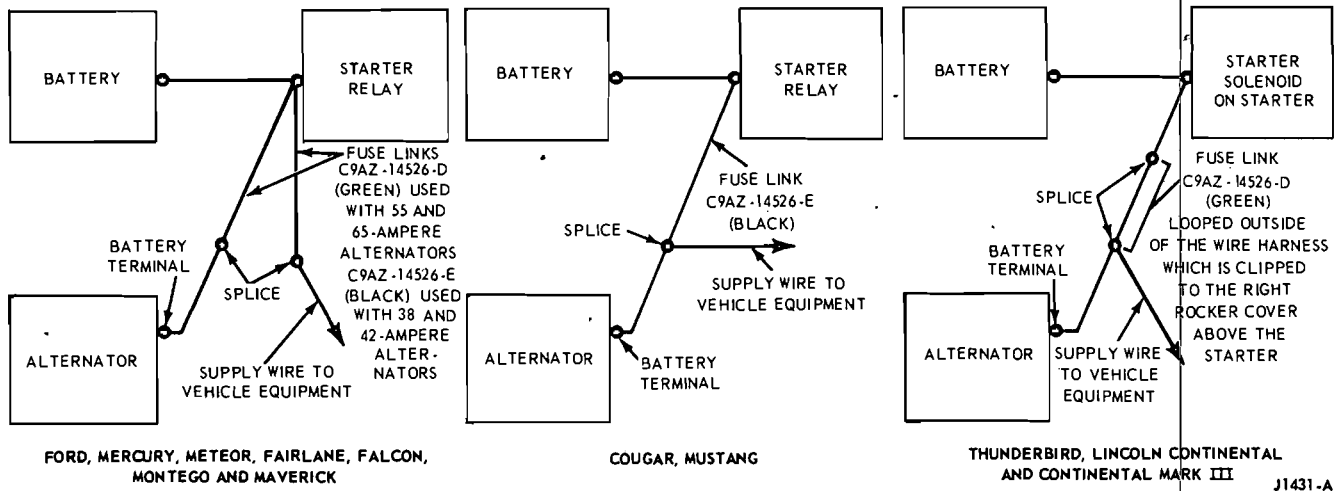


FIG. 1 Fuse Link Installation

2 TESTING

CHARGING SYSTEM

The alternator and alternator regulator are precision built units, and the equipment to make tests in the charging system must be accurate. Voltmeters must be accurate within 0.1 (one tenth) volt within the range of 12 to 16 volts and ammeters within one ampere at 30 to 65 amperes to permit correct measurement of the alternator and regulator. The meters on Rotunda equipment should be calibrated once a year and the date of calibration stamped on the meter face. It is recommended that this practice be followed by technicians with other than approved equipment in order to maintain their meters at acceptable accuracy.

Certain tests outlined in this section are illustrated in schematic and in pictorial form. The schematic illustrates the internal connections of the Rotunda equipment so that these connections can be duplicated when this equipment is not available. The

Rotunda test units are a combination of accepted instruments incorporated into a single unit. The various circuits involved in the tests can be selected by means of switches without the necessity of changing connections. This reduces the time required to test units and circuits on the vehicle.

Where applicable, the tests are divided into On The Vehicle and On The Test Bench procedures. Either procedure can be followed depending on the equipment available for the tests.

Trouble shooting or diagnosis is required before actual repairs can be made in the electrical system. Even where an obvious fault makes the replacement of a unit necessary, you must still find out why the unit failed. The trouble shooting procedures given in the Electrical Systems Diagnosis Manual will aid in making a correct diagnosis. When a trouble is diagnosed correctly, unnecessary repairs are prevented, the time the vehicle is out of service will be decreased, and the

repairs that are made will be permanent.

FUSE LINK CONTINUITY TEST

1. On the Cougar, Mustang, Thunderbird, Lincoln Continental and Continental Mark III, make certain first that the battery is OK, then turn on the headlights or any accessory. If the headlights or accessory do not operate, the fuse link is probably burned out.

2. On the Ford, Mercury, Meteor, Torino, Montego, Maverick and Comet, there are two fuse links (Fig. 1). Use the same procedure as in step 1 to test the fuse link that protects the vehicle equipment.

To test the fuse link that protects the alternator, make certain that the battery is OK then check with a voltmeter for voltage at the BAT terminal of the alternator. No voltage indicates that the fuse link is probably turned out.

4 REMOVAL AND INSTALLATION

FUSE LINK REPLACEMENT

1. Procure the proper service fuse link for the vehicle being repaired (Fig. 1). The two fuse links shown have an eyelet terminal for a 5/16-inch

stud on one end. When the terminal is not required, cut off the fuse link as close to the terminal as possible and strip approximately 3/8-inch of insulation from the cut end.

2. Disconnect the battery ground cable.

3. Disconnect the fuse link and/or fuse link eyelet terminal from the battery terminal of the starter

relay. On the Thunderbird, Lincoln Continental and the Continental Mark III, the fuse link is looped outside of the wire harness behind the point at which the harness is clipped to the right rocker cover above the starter.

4. Cut the fuse link and the

splice(s) from the wire(s) to which it is attached.

5. Splice and solder the new fuse link to the wire(s) from which the old link was cut. Use rosin core solder. Wrap the splice(s) completely with vinyl electricians tape.

6. Securely connect the eyelet terminals (if any) to the battery stud on the starter relay.

7. Install the repaired wiring as before using existing clips if provided.

8. Connect the ground cable to the battery.

PART 31-02 Batteries

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		With Rotunda Cell Analyzer (SRECA-200).....	31-02-01

2 TESTING

Tests are made on a battery to determine the state of charge and also the condition. The ultimate result of these tests is to show that the battery is good, needs recharging, or should be replaced.

If a battery has failed, is low in charge, or requires water frequently, good service demands that the reason for this condition be found. It may be necessary to follow trouble shooting procedures to locate the cause of the

trouble. Refer to the Ford Car and Truck Diagnosis Manual for battery diagnosis procedures.

Hydrogen and oxygen gases are produced during normal battery operation. This gas mixture can explode if flames or sparks are brought near the vent openings of the battery. The sulphuric acid in the battery electrolyte can cause a serious burn if spilled on the skin or spattered in the eyes. It should be flushed away

with large quantities of clear water.

Particular care should be used when connecting a booster battery in order to prevent sparks. Be certain to connect positive terminal to positive terminal and negative terminal to negative terminal.

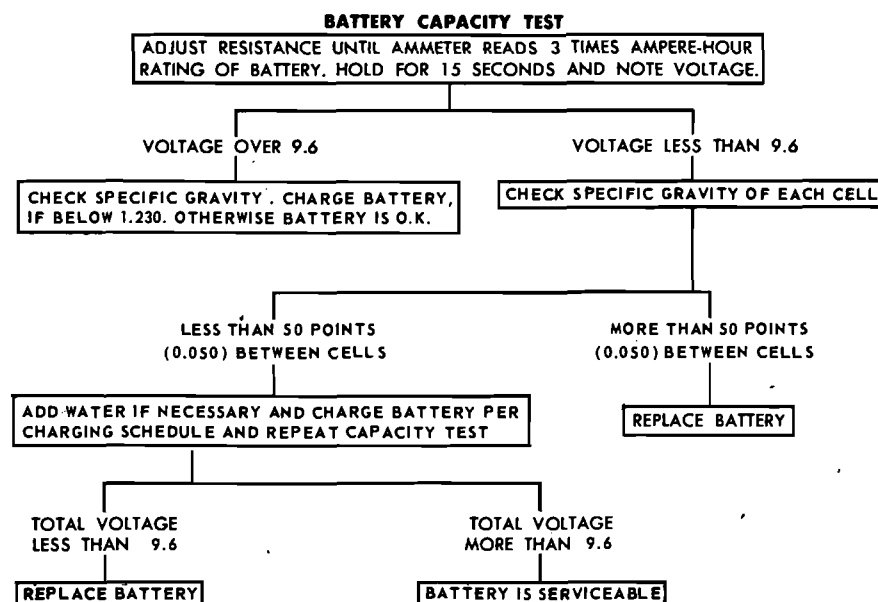
Before attempting to test a battery, it is important that it be given a thorough visual examination to determine if it has been damaged. The presence of moisture on the outside of the case and/or low electrolyte level in one or more of the cells are indications of possible battery damage.

Autolite batteries have a single one-piece cover which completely seals the top of the battery and the individual cell connectors. This cover must not be pierced with test probes to perform individual cell tests.

TESTS USING THE ROTUNDA CELL ANALYZER (SRECA-200)

The Rotunda Cell Analyzer (SRECA-200) measures the individual cell voltages by inserting probes into the cell openings. Follow the instructions provided with the unit.

A battery can also be tested by determining its ability to deliver current. This may be determined by conducting a Battery Capacity Test. Fig. 1 shows the battery capacity test in outline form.



J1039-F

FIG. 1 Battery Capacity Test Outline

TESTS USING THE ROTUNDA BATTERY—STARTER TESTER ARE 16-31

Battery Capacity Test

A high rate discharge tester (Rotunda Battery-Starter Tester ARE 16-31) in conjunction with a voltmeter is used for this test.

1. Turn the control knob on the Battery Starter Tester to the OFF position.

2. Turn the voltmeter selector switch to the 20-volt position.

3. Connect both positive test leads to the positive battery post and both negative test leads to the negative battery post. The voltmeter clips must contact the battery posts and not the high rate discharge tester clips. Unless this is done, the actual battery terminal voltage will not be indicated.

4. Turn the load control knob in a clockwise direction until the ammeter reads three times the ampere hour rating of the battery. (A 45 ampere-hour battery should be tested at 135 amperes load).

5. With the ammeter reading the required load for 15 seconds, note the voltmeter reading. Avoid leaving the high discharge load on the battery for periods longer than 15 seconds.

6. If the voltmeter reading is 9.6 volts or more, the battery has good output capacity and will readily accept a charge, if required. Check the specific gravity. If the specific gravity reading is 1.230 or below, add water if necessary and charge the battery until it is fully charged (Fig. 1). Always disconnect the battery ground cable

Specific Gravity Reading	Charge Rate Amperes	Battery Capacity – Ampere Hours				
		45	55	70	80	85
1.125–1.150 ①	35	65 min.	80 min.	100 min.	115 min.	125 min.
1.150–1.175	35	50 min.	65 min.	80 min.	95 min.	105 min.
1.175–1.200	35	40 min.	50 min.	60 min.	70 min.	75 min.
1.200–1.225	35	30 min.	35 min.	45 min.	50 min.	55 min.
Above 1.225	5	②	②	②	②	②

① If the specific gravity is below 1.125, use the indicated high rate of charge for the 1.125 specific gravity, then charge at 5 amperes until the specific gravity reaches 1.250 at 80° F.

② Charge at 5 ampere rate only until the specific gravity reaches 1.250 at 80° F. At no time during the charging operation should the electrolyte temperature exceed 130° F.

J 1355-C

FIG. 2 Allowable Battery High Rate Charge Time Schedule

when charging the battery.

The battery is fully charged when the cells are all gassing freely and the specific gravity ceases to rise for three successive readings taken at hourly intervals. Additional battery testing will not be necessary after the battery has been properly charged.

7. If the voltage reading obtained during the capacity test is below 9.6 volts, check the specific gravity of each cell.

8. If the difference between any two cells is more than 50 points (0.050), the battery is not satisfactory for service and should be replaced.

9. If the difference between cells is less than 50 points (0.050), the battery should be charged according to the charging schedule in Fig. 2. In some cases the electrolyte level may be

too low to obtain a specific gravity reading. In such cases water should be added until the electrolyte level just covers the ring in the filler well, then charge the battery at 35 amperes for the maximum charging time indicated in Fig. 2 for the capacity of the battery being tested.

10. After the battery has been charged, repeat the capacity test. If the capacity test battery voltage is still less than 9.6 volts, replace the battery. If the voltage is 9.6 volts or more, the battery is satisfactory for service.

11. If the battery is found to be discharged only, check for a loose fan belt, loose electrical connections and charging system performance.

9 SPECIFICATIONS

BATTERIES

Allowable Battery High Rate Charge Time Schedule						
Specific Gravity Reading	Charge Rate Amperes	Battery Capacity—Ampere Hours				
		45	55	70	80	85
1.125–1.150①	35	65 min.	80 min.	100 min.	115 min.	125 min.
1.150–1.175	35	50 min.	65 min.	80 min.	95 min.	105 min.
1.175–1.200	35	40 min.	50 min.	60 min.	70 min.	75 min.
1.200–1.225	35	30 min.	35 min.	45 min.	50 min.	55 min.
Above 1.225	5	②	②	②	②	②

① If the specific gravity is below 1.125, use the indicated high rate of charge for the 1.125 specific gravity, then charge at 5 amperes until the specific gravity reaches 1.250 at 80° F.

② Charge at 5 ampere rate only until the specific gravity reaches 1.250 at 80° F.

At no time during the charging operation should the electrolyte temperature exceed 130° F.

Battery Freezing Temperatures			
Specific Gravity	Freezing Temp	Specific Gravity	Freezing Temp
1.280	–90°F	1.150	+5°F
1.250	–62°F	1.100	+19°F
1.200	–16°F	1.050	+27°F
Battery Ampere Hours		Number Of Plates	
45		54	
55		66	
70		66	
80		78	

CJ1447-A

1965/72 FORD CAR

FINAL ISSUE

Master Parts and Accessories

**Source Document
Ford Publication Form FP-7635-B**

Form FP 7635-A & B

Supersends All Previous Issues, Changes and Revisions



5236

May, 1975

FINAL ISSUE

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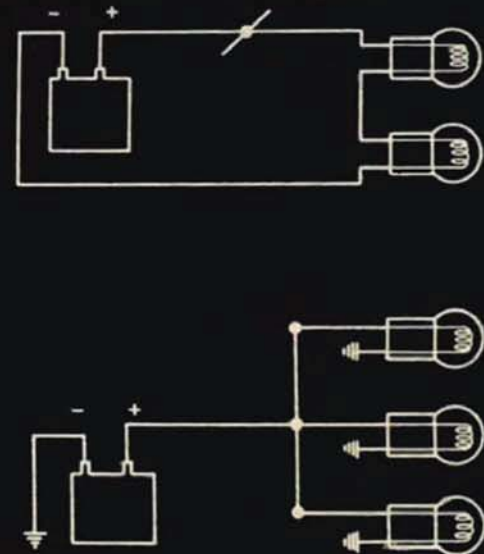
READY REFERENCE

13001

HOW TO READ WIRING DIAGRAMS



VOL 68 S7 L2A



HOW TO READ WIRING DIAGRAMS

COURSE 13001 • VOL. 68 S7 L2A

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The descriptions, testing procedures, and specifications in this handbook were in effect at the time the handbook was approved for printing. Ford Motor Company reserves the right to discontinue models at any time, or change specifications, design, or testing procedures without notice and without incurring obligations.

NATIONAL SERVICE OFFICE
FORD DIVISION



FIRST PRINTING — JANUARY, 1968

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DEARBORN, MICHIGAN

INTRODUCTION

The Why and Wherefore of Wiring Diagrams

To the uninformed, a wiring diagram — or a wiring assembly — looks like it might take a genius to figure out.

Not so — as you'll find out when you get better acquainted with these subjects.

There're as understandable and logical as a road map and road markers, when you're finding your way on a cross-country drive.

The ability to read a wiring diagram and relate it to a vehicle's wiring system is, of course, an essential part of a modern service technician's skill. And it's growing in relative importance, too, due to owner's increasing demands for the comforts and conveniences supplied by electrically-operated options and accessories. This opens up greater opportunities, for the forward-looking technician.

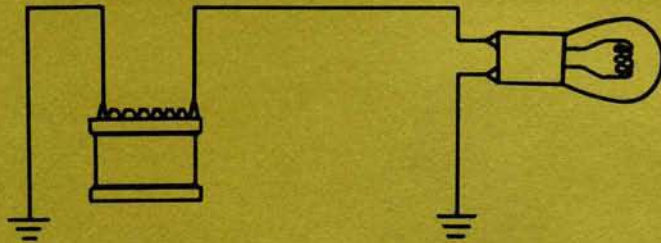
The Purpose of this Booklet . . .

. . . is to acquaint you with the systems by which electrical circuits are traced on vehicles. Specifically, it is designed to help you acquire the ability to make your own power checks, quickly and accurately.

Scope of the Booklet

Basically, this is a printed version of the film, "How to Read a Wiring Diagram." It is in no sense a manual of the shop methods by which electrical repairs are made.

It *can* be a helpful guide that can introduce you to the principles of wiring diagrams and vehicle wiring. As you gain experience in reading wiring diagrams, you'll accumulate your own know-how in this important skill. When it becomes "second nature" to you, these pages will have served their purpose — and yours.



To show how to read wiring diagrams — and to explain how they can be used to help you troubleshoot problems in the electrical system — is what this booklet is all about. Obviously, these are important subjects.

A LOGICAL APPROACH TO ELECTRICAL DIAGNOSIS



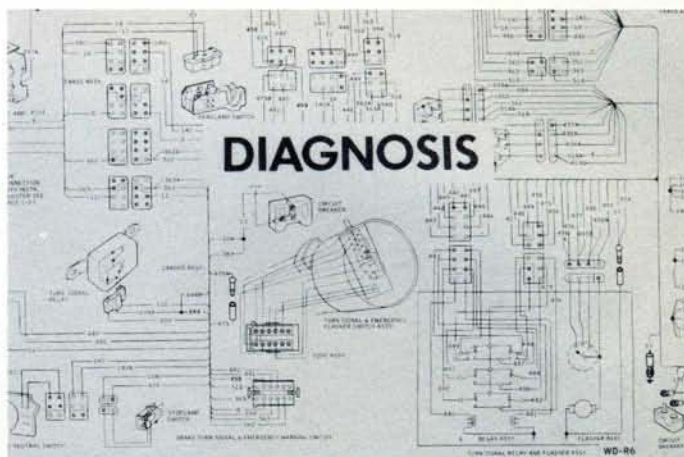
If a customer comes in because his headlights aren't working, you can't just make a snap decision. That's not the *professional way*.



Putting in a new sealed-beam unit *may* be the answer . . . but then again, *it may not*. Snap decisions are *out*. They're *not professional*.



When you go to a doctor, for example, he tries to find out what's *really* wrong with you. He looks beyond the aches and pains you feel, to see what's *causing* the trouble. We call this, *diagnosis*.



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