



Mercedes-Benz

Service

Service Manual
Electrical Troubleshooting
Series W114, W115

Foreword

This service manual contains all available information of the important assembly, adjustment and inspection jobs. Pertinent data, dimensions and tolerances, as well as special tools for various individual operations are listed within the text. The various repair and maintenance procedures outlined herein are procedures designed to be used by trained Mercedes-Benz service and repair station personnel. Supplements as such are no longer available for this Service Manual.

Mercedes-Benz of North America, Inc. recommends that repairs to, and maintenance of Mercedes-Benz automobiles be performed only by Mercedes-Benz trained personnel at authorized Mercedes-Benz repair stations.

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Instructions for Use of Service Manual

1. The code numbers employed for identifying the individual pages are composed as follows:

For example: 35—1/3

35 Group Designation

35—1 Job Number

—1 Job number within Group

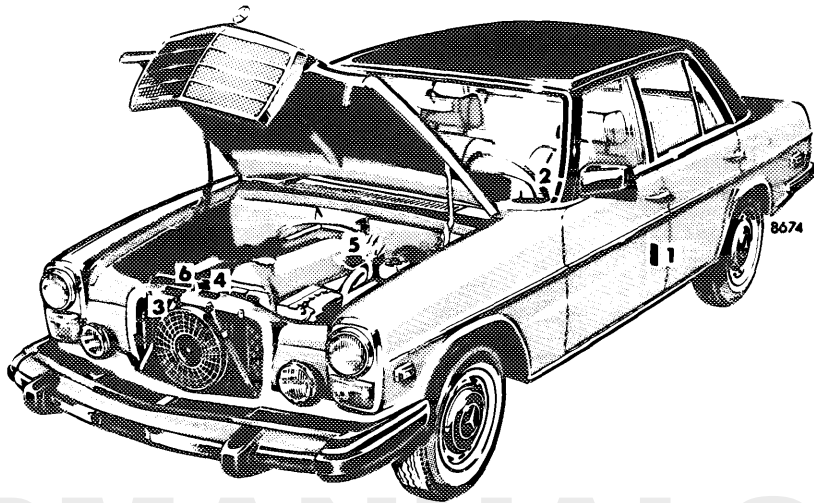
35—1/3 Page Number

/3 Consecutive page within Job Number

Illustrations are also carrying the Job Number, as well as a serial number.

2. All the dimensions are in millimeter (mm) unless otherwise specified, for example kilopond (kp) or liter (lits) etc.

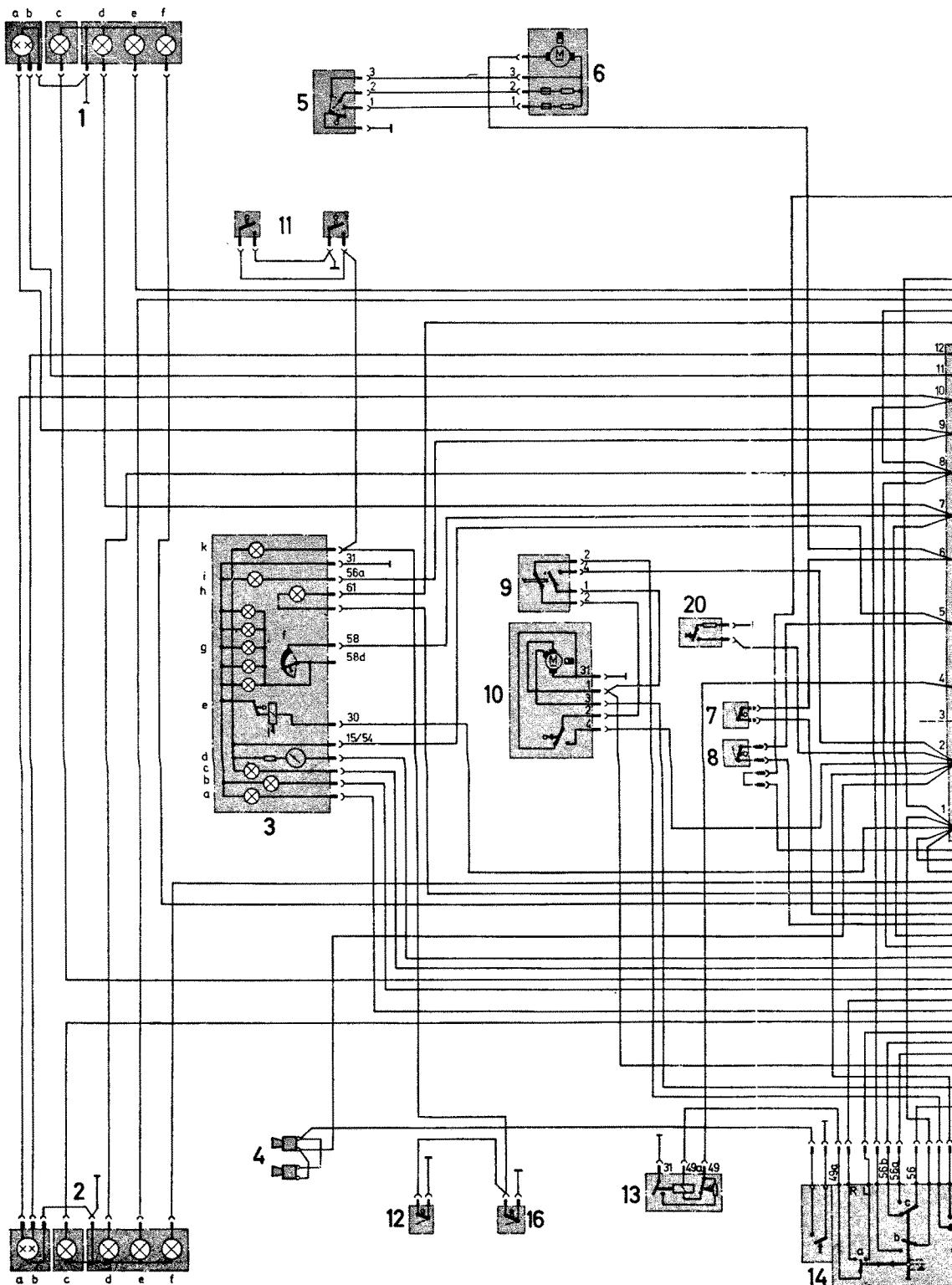
3. Part Numbers are provided only for the identification and better differentiation of the various versions. **When ordering spare parts, be sure to use the Part Numbers provided in the Spare Parts Lists.**



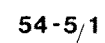
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- 1 Certification Tag (left door pillar)
- 2 Identification Tag (left windshield post)
- 3 Chassis No.
- 4 Engine No.
- 5 Body No. and Paintwork No.
- 6 Emission Control Tag
(Model year 1970 and later only)

- 1 Right lighting unit
- 2 Left lighting unit
 - a Upper beam
 - b Lower beam
 - c Flash signal
 - d Parking light
 - e Fog light
 - f Clearance light
- 3 Instrument cluster
 - a Left signal indicator
 - b Right signal indicator
 - c Fuel reserve warning light
 - d Fuel level indicator
 - e Electric clock
 - f Control resistance for instrument lighting
 - g Instrument lighting
 - h Charging light
 - i Upper beam indicator
 - k Brake control
- 4 Two-tone horn system
- 5 Blower switch (air intake)
- 6 Blower motor (air intake)
- 7 Stop light switch
- 8 Reversing light switch
- 9 Foot pump (windshield washer)
- 10 Wiper motor
- 11 Control switch for brake fluid
- 12 Control switch for parking brake
- 13 Flash signal mechanism
- 14 Horn ring
- 15 Combination switch
 - a Flash signal switch
 - b Flash approach signal switch
 - c Hand dimmer
 - d Windshield wiper switch
 - e Wiper speed switch
- 16 Choke cable control switch
- 17 Front left door contact
- 18 Reading light
- 19 Front right door contact
- 20 Cigar lighter
- 21 Fuses
- 22 Battery
- 23 Starter
- 24 Lead for optional extra (radio)
- 25 Voltage regulator
- 26 Generator
- 27 Fuel level indicator
- 28 Rotary light switch
- 29 Ignition starter switch
- 30 Ignition coil
- 31 Spark plugs
- 32 Distributor
- 33 Sleeve union for tail light wiring harness
- 34 Trunk compartment light
- 35 Right tail light
- 36 Left tail light
 - a Flash signal
 - b Tail light
 - c Reversing light
 - d Clearance light
 - e Stop light
- 37 License plate light



Models 200/8 and 220/8



1	Headlight unit, left	10	Washer pump	27	Pre-resistance, blower motor	Wire Color Code
a	High beam	11	Cigar lighter	28	Pre-resistance 1.8 Ω	ws = white
b	Low beam	12	Glove compartment light	29	Ignition coil	gn = green
c	Standing/parking light	13	Glove compartment light switch	30	Distributor	br = brown
d	Turn signal light	14	Solenoid valve, automatic transmission	31	Spark plugs	ge = yellow
e	Fog light	15	Starter-lockout and back-up light switch	32	Plug connection, cable to rear components	gr = grey
2	Headlight unit, left	16	Signal system contact	33	Trunk light	rs = pink
3	Brake fluid indicator light switch	17	Combination switch	34	Blower motor	bl = blue
4	Brake light switch	a	Turn signal light switch	35	Fuel gauge sensor	rt = red
5	Parking brake indicator light switch	b	Passing light switch	36	Radio	sw = black
6	Instrument cluster	c	Dimmer switch	37	Alternator	el = ivory
a	Turn signal indicator light, left	d	Wiper switch	38	Voltage regulator	nf = neutral
b	Turn signal indicator light, right	e	Switch for wiping speed	39	Starter	vi = purple
c	Fuel reserve warning light	18	Fuse box	40	Battery	
d	Fuel gauge	19	Carburetor heater, automatic starting device	41	Tail light unit, right	
e	Electric clock	20	Kick-down switch	42	License plate light	
f	Rheostat, instrument light	21	Door contact switch, front, left	43	Tail light unit, left	
g	Instrument lights	22	Front dome light w/switch	a	Turn signal light	
h	Charge indicator light	23	Door contact switch, front, right	b	Tail/parking light	
i	High beam indicator light	24	Rotary light switch	c	Back-up light	
k	Brake fluid and parking brake indicator light	25	Ignition starter switch	d	Brake light	
7	Dual-tone horns (fanfares)	26	Blower switch			
8	4-way warning flasher switch/timer					
9	Wiper motor					

Example:

Wire designation 1.5 gr/rt

Basic color gr = grey

Identification color rt = red

Cross section of wire 1.5 = 1.5 mm²



Key to wiring diagram model 200/8, 220/8 from May 1972 to August 1973

1	Headlight unit, left	11	Cigar lighter	33	Trunk light		
a	High beam	12	Glove compartment light	34	Blower motor		
b	Low beam	13	Glove compartment light switch	35	Fuel gauge sensor		
c	Standing/parking light	14	Solenoid valve, automatic transmission	36	Radio		
d	Turn signal light	15	Starter-lockout and back-up light switch	37	Alternator		
e	Fog light	16	Signal system contact	38	Voltage regulator		
2	Headlight unit, left	17	Combination switch	39	Starter		
a	High beam		a Turn signal light switch	40	Idle fuel cut-out valve		
b	Low beam		b Passing light switch	41	Time delay switch		
c	Standing/parking light		c Dimmer switch	42	Battery		
d	Turn signal light		d Wiper switch	43	Tail light unit, right		
e	Fog light		e Switch for wiping speed	a	Turn signal light		
3	Brake fluid indicator light switch			b	Tail/parking light		
4	Brake light switch			c	Back-up light		
5	Parking brake indicator light switch			d	Brake light		
6	Instrument cluster	18	Fuse box	44	License plate light		
a	Turn signal indicator light, left	19	Carburetor heater, automatic starting device	45	Tail light unit, left		
b	Turn signal indicator light, right	20	Kick-down switch	a	Turn signal light		
c	Fuel reserve warning light	21	Door contact switch, front, left	b	Tail/parking light		
d	Fuel gauge	22	Front dome light w/switch	c	Back-up light		
e	Electric clock	23	Door contact switch, front, right	d	Brake light		
f	Rheostat instrument lights	24	Rotary light switch				
g	Instrument lights	25	Ignition starter switch				
h	Charge indicator light	26	Blower switch				
i	High beam indicator light	27	Pre-resistance, blower motor				
k	Brake fluid and parking brake indicator light	28	Pre-resistance 1.8 Ω				
7	Dual-tone horns (fanfares)	29	Ignition coil				
8	4-way warning flasher switch/timer	30	Distributor				
9	Wiper motor with interval timer	31	Spark plugs				
10	Washer pump	32	Plug connection, cable to rear components				

Wire Color Code

ws = white
 gn = green
 br = brown
 ge = yellow
 gr = grey
 rs = pink
 bl = blue
 rt = red
 sw = black
 el = ivory
 nf = neutral
 vi = purple

Example:

Wire designation 1.5 gr/rt

Basic color gr = grey

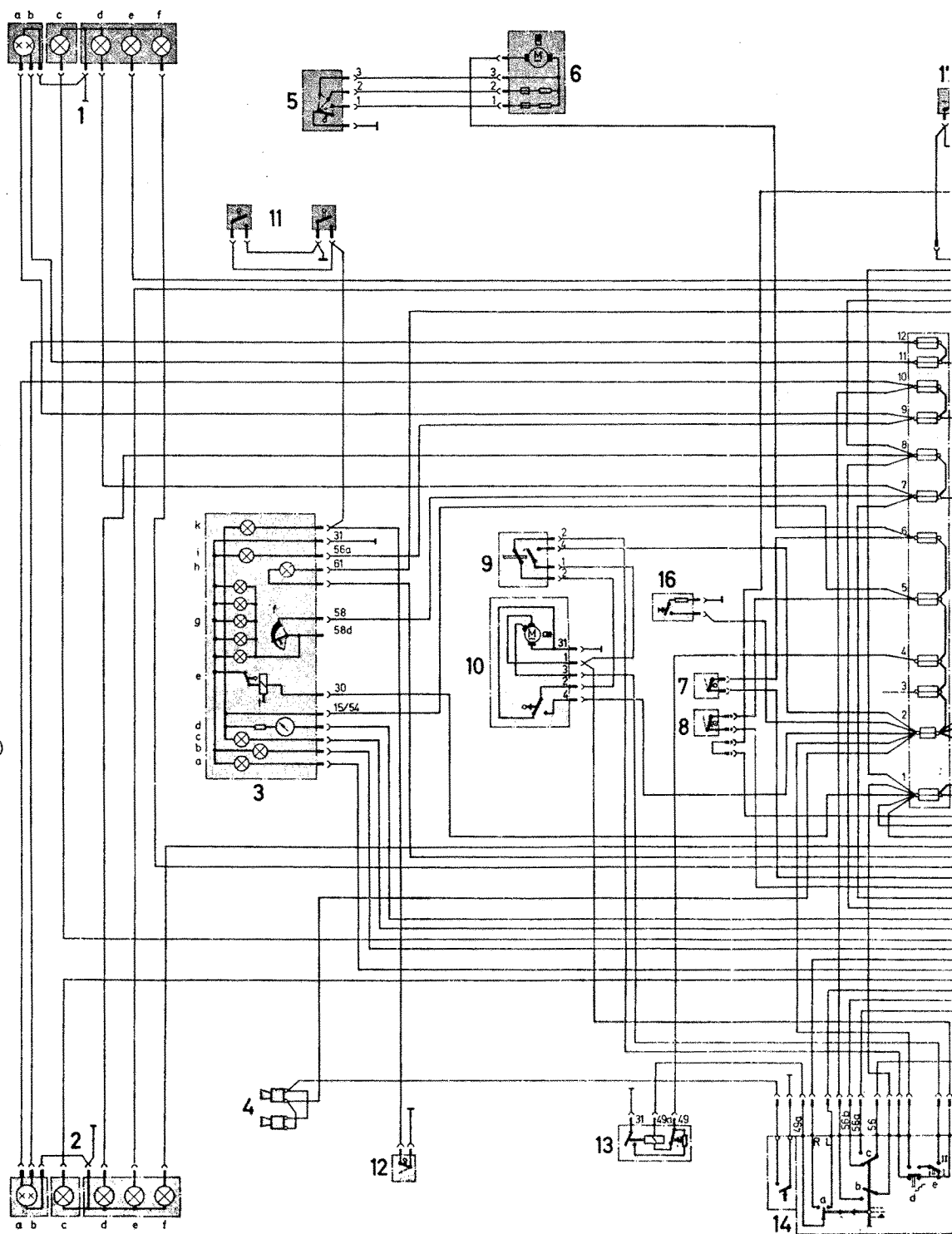
Identification color rt = red

Cross section of wire 1.5 = 1.5 mm²

Supplement 8. Extension May 1974. Service Manual Passenger Cars starting 1968
Series 114-115

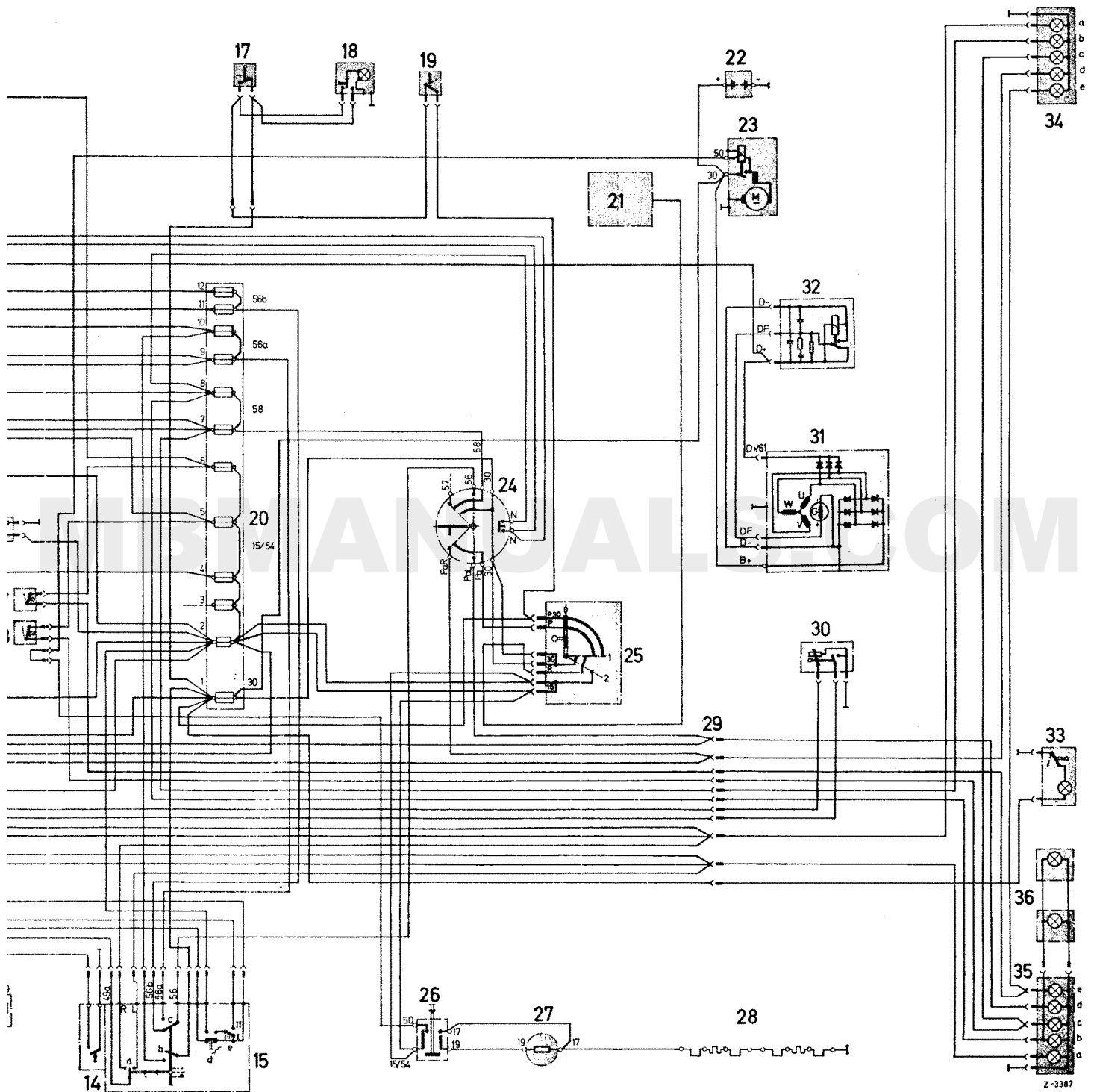


- 1 Right lighting unit
- 2 Left lighting unit
 - a Upper beam
 - b Lower beam
 - c Flash signal
 - d Parking light
 - e Fog light
 - f Clearance light
- 3 Instrument cluster
 - a Left signal indicator
 - b Right signal indicator
 - c Fuel reserve warning light
 - d Fuel level indicator
 - e Electric clock
 - f Control resistance for instrument lighting
 - g Instrument lighting
 - h Charging light
 - i Upper beam control
 - k Brake control
- 4 Two-tone horn system
- 5 Blower switch (air intake)
- 6 Blower motor (air intake)
- 7 Stop light switch
- 8 Reversing light switch
- 9 Foot pump windshield washer
- 10 Wiper motor
- 11 Control switch for brake fluid
- 12 Control switch for parking brake
- 13 Flash signal mechanism
- 14 Horn ring
- 15 Combination switch
 - a Flash signal switch
 - b Flash approach signal switch
 - c Hand dimmer
 - d Windshield wiper switch
 - e Wiper speed switch
- 16 Cigar lighter
- 17 Front left door contact
- 18 Reading light
- 19 Front right door contact
- 20 Fuses
- 21 Lead for optional extra (radio)
- 22 Battery
- 23 Starter
- 24 Rotary light switch
- 25 Steering lock
- 26 Glow starter switch
- 27 Glow plug resistance control
- 28 Glow plugs
- 29 Sleeve union for tail light wiring harness
- 30 Fuel level indicator
- 31 Generator
- 32 Voltage regulator
- 33 Trunk compartment light
- 34 Right tail light
 - a Flash signal
 - b Tail light
 - c Reversing light
 - d Clearance light
 - e Stop light
- 35 Left tail light
 - a Flash signal
 - b Tail light
 - c Reversing light
 - d Clearance light
 - e Stop light
- 36 License plate light



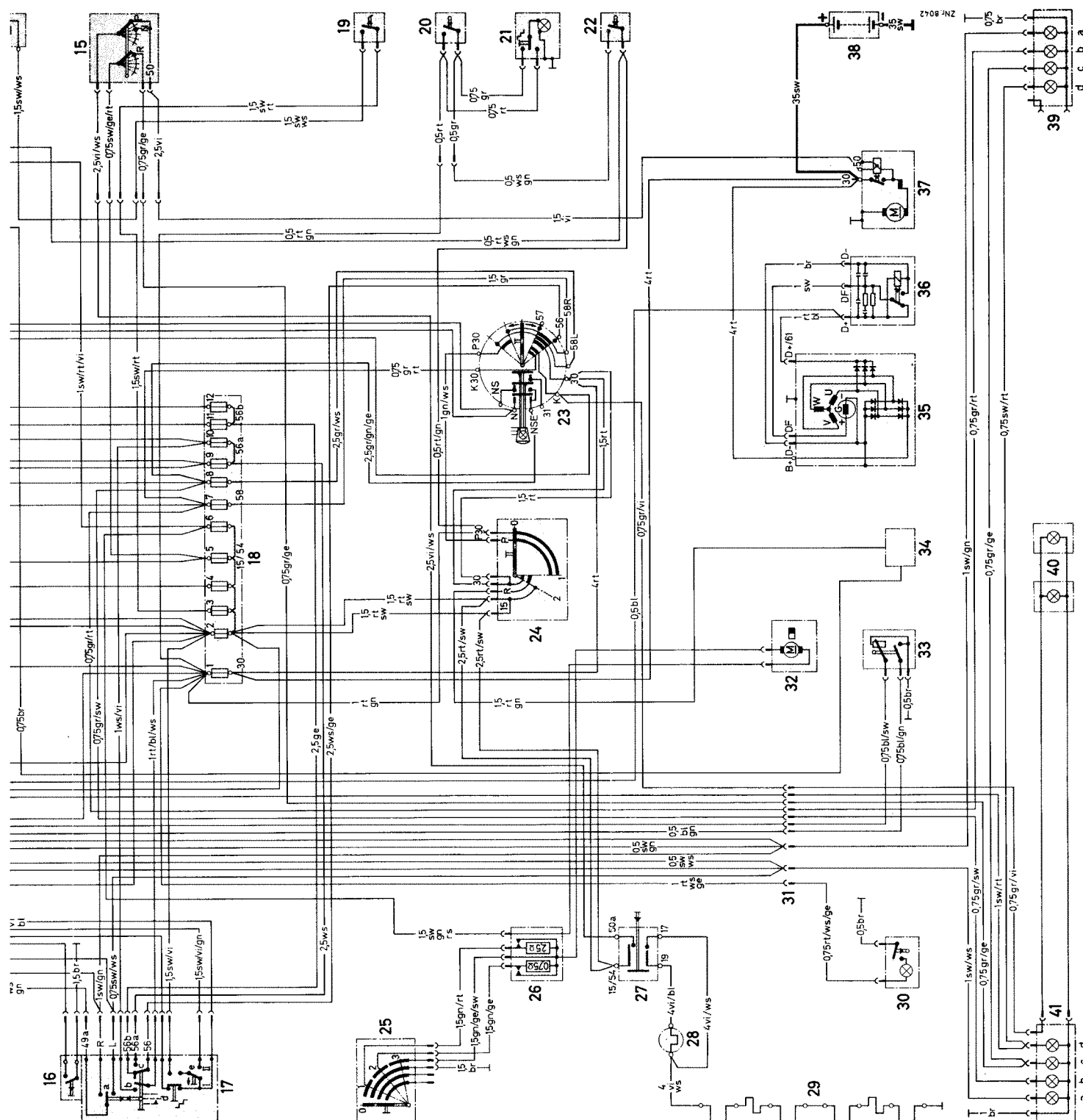
Circuit Diagram

Models 200 D/8 and 220 D/8



1	Headlight unit, left	10	Washer pump	28	Glow plug resistance control	Wire Color Code
2	Headling unit, right	11	Cigar lighter	29	Glow plugs	ws = white
a	High beam	12	Glove compartment light	30	Trunk light	gn = green
b	Low beam	13	Glove compartment light switch	31	Plug connection, cable to rear components	br = brown
c	Standing/parking light	14	Solenoid valve, automatic transmission	32	Blower motor	ge = yellow
d	Turn signal light	15	Starter-lockout and back-up light switch	33	Fuel gauge sensor	gr = grey
e	Fog light	16	Signal system contact	34	Radio	rs = pink
3	Brake fluid indicator light switch	17	Combination switch	35	Alternator	bl = blue
4	Brake light switch	a	Turn signal light switch	36	Voltage regulator	rt = red
5	Parking brake indicator light switch	b	Passing light switch	37	Starter	sw = black
6	Instrument cluster	c	Dimmer switch	38	Battery	el = ivory
a	Turn signal indicator light, left	d	Wiper switch	39	Tail light unit, right	nf = neutral
b	Turn signal indicator light, right	e	Switch for wiping speed	a	Turn signal light	vi = purple
c	Fuel reserve warning light	18	Fuse box	b	Tail/parking light	
d	Fuel gauge	19	Kick-down switch	c	Back-up light	
e	Electric clock	20	Door contact switch, front, left	d	Brake light	
f	Rheostat, instrument lights	21	Front dome light w/switch	40	License plate light	Example:
g	Instrument lights	22	Door contact switch, front, right	41	Tail light unit, left	Wire designation 1.5 gr/rt
h	Charge indicator light	23	Rotary light switch	a	Turn signal light	Basic color gr = grey
i	High beam indicator light	24	Steering lock switch	b	Tail/parking light	Identification color rt = red
k	Brake fluid and parking brake indicator light	25	Blower switch	c	Back-up light	Cross section of wire 1.5 = 1.5 mm ²
7	Dual-tone horns (fanfares)	26	Pre-resistance, blower motor	d	Brake light	
8	4-way warning flasher switch/timer	27	Glow starter switch			
9	Wiper motor					

Model 200 D/8, 220 D/8 from December 1970 to May 1972



		Wire Color Code	
1 Headlight unit, left		ws = white	
a High beam		gn = green	
b Low beam		br = brown	
c Standing/parking light		ge = yellow	
d Turn signal light		gr = grey	
e Fog light		rs = pink	
2 Headlight unit, left		b1 = blue	
a High beam		rt = red	
b Low Beam		sw = black	
c Standing/parking light		el = ivory	
d Turn signal light		nf = neutral	
e Fog light		vi = purple	
3 Brake fluid indicator light switch			
4 Brake light switch			
5 Parking brake indicator light switch			
6 Instrument cluster			
a Turn signal indicator light, left			
b Turn signal indicator light, right			
c Fuel reserve warning light			
d Fuel gauge			
e Electric clock			
f Rheostat, instrument lights			
g Instrument lights			
h Charge indicator light			
i High beam indicator light			
k Brake fluid and parking brake indicator light			
7 Dual-tone horns (fanfares)			
8 4-way warning flasher switch/timer			
9 Wiper motor with interval timer			
10 Washer pump			
11 Cigar lighter			
12 Glove compartment light			
13 Glove compartment light switch			
14 Solenoid valve, automatic transmission			
15 Starter-lockout and back-up light switch			
16 Signal system contact			
17 Combination switch			
a Turn signal light switch			
b Passing light switch			
c Dimmer switch			
d Wiper switch			
e Switch for wiping speed			
18 Fuse box			
19 Kick-down switch			
20 Door contact switch, front, left			
21 Front dome light w/switch			
22 Door contact switch, front, right			
23 Rotary light switch			
24 Diesel ignition switch			
25 Blower switch			
26 Pre-resistance, blower motor			
27 Glow starter switch			
28 Glow plug resistance control			
29 Glow plugs			
30 Trunk light			
31 Plug connection, cable to rear components			
32 Blower motor			
33 Fuel gauge sensor			
34 Radio			
35 Alternator			
36 Voltage regulator			
37 Starter			
38 Battery			
39 Tail light unit, right			
a Turn signal light switch			
b Tail/parking light			
c Back-up light			
d Brake light			
40 License plate light			
41 Tail light unit, left			
a Turn signal light			
b Tail/parking light			
c Back-up light			
d Brake light			

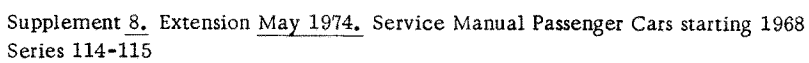
Example:

Wire designation 1.5 gr/rt

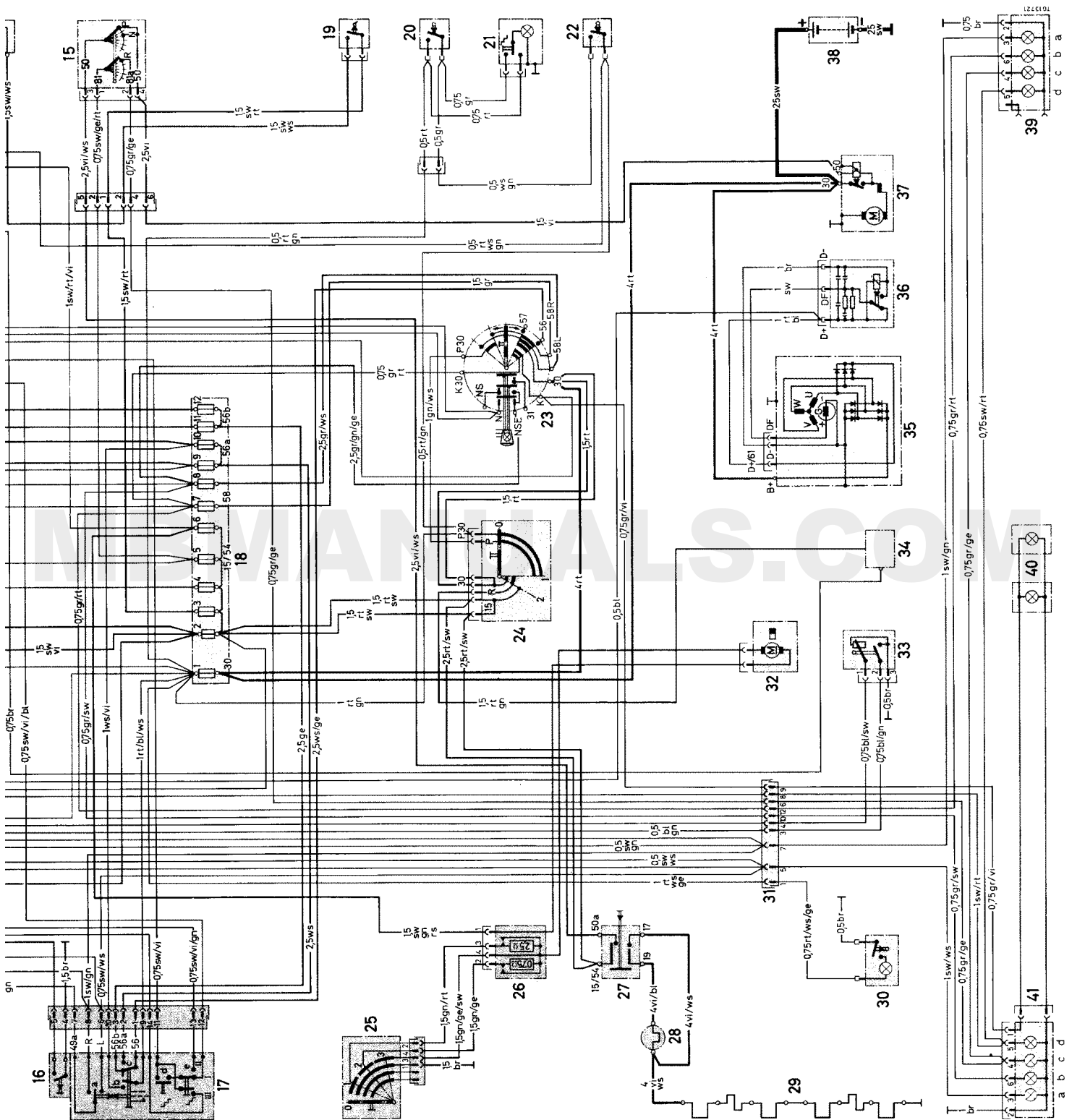
Basic color gr = grey

Identification color rt = red

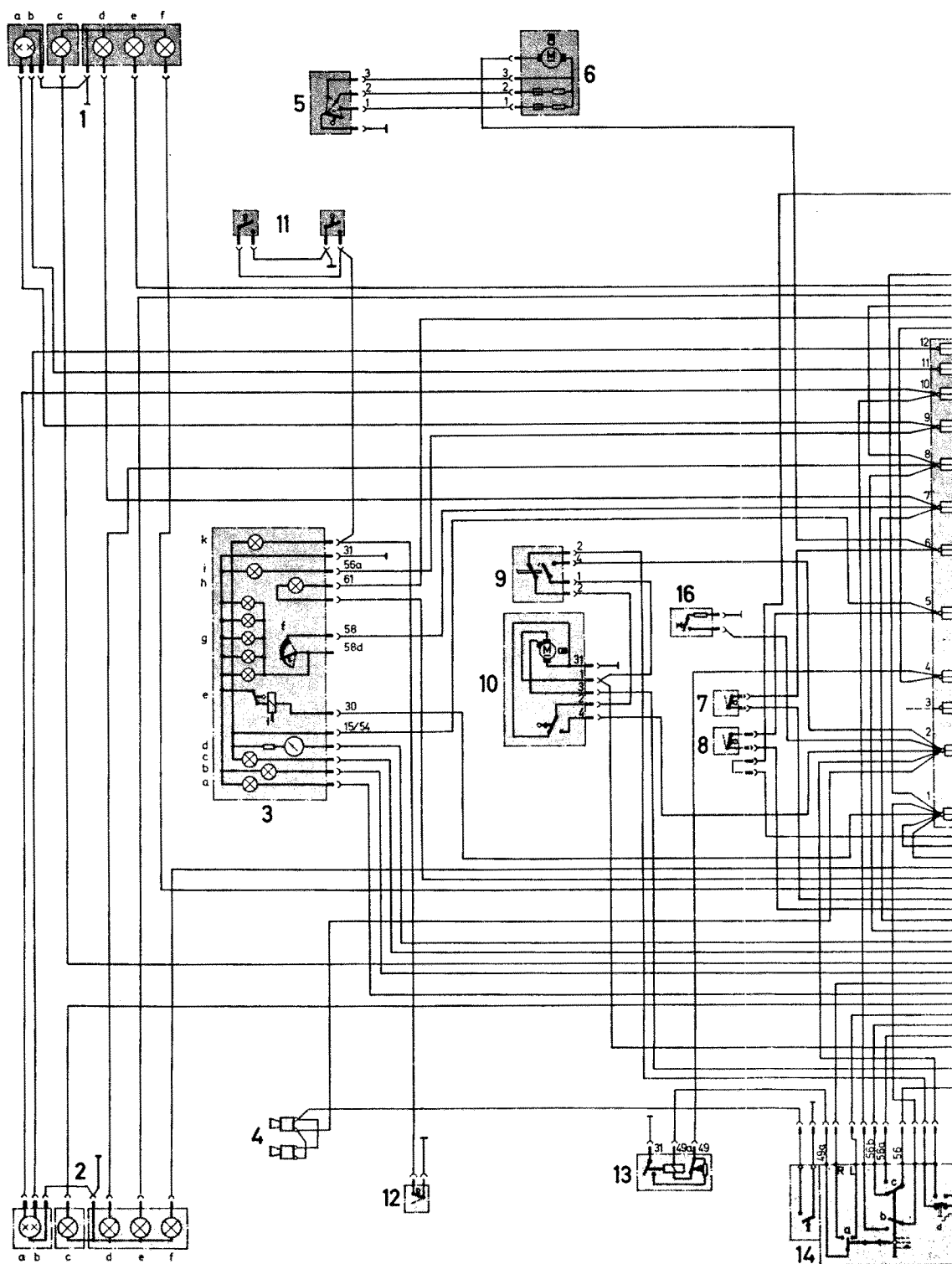
Cross section of wire 1.5 = 1.5 mm²



Model 200 D/8 220 D/8 from May 1972 to August 1973

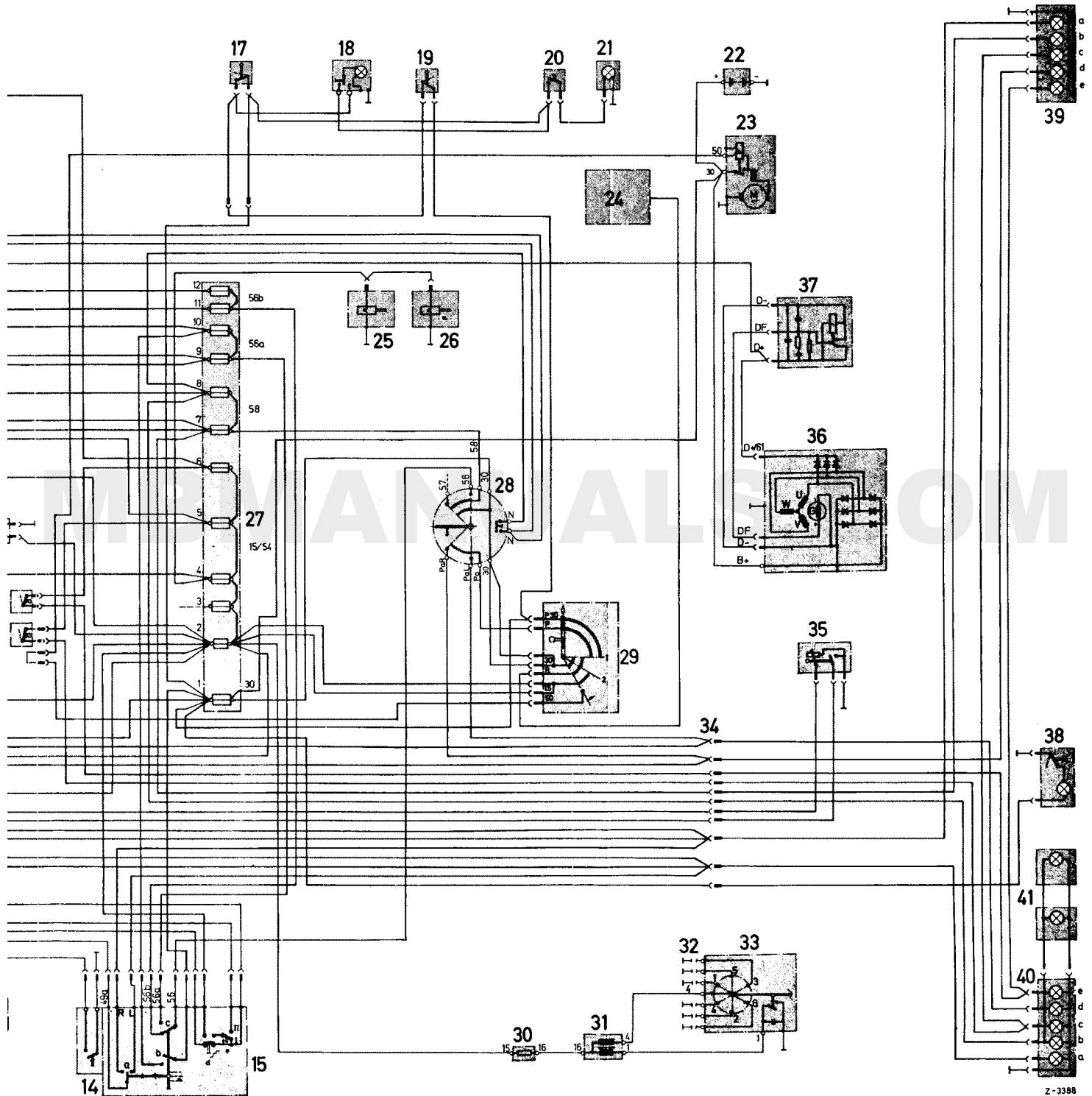


- 1 Right lighting unit
- 2 Left lighting unit
- a Upper beam
- b Lower beam
- c Flash signal
- d Parking light
- e Fog light
- f Clearance light
- 3 Instrument cluster
- a Left signal indicator
- b Right signal indicator
- c Fuel reserve warning light
- d Fuel level indicator
- e Electric clock
- f Control resistance for instrument lighting
- g Instrument lighting
- h Charging light
- i Upper beam control
- k Brake control
- 4 Two-tone horn mechanism
- 5 Blower switch (air intake)
- 6 Blower motor (air intake)
- 7 Stop light switch
- 8 Reversing light switch
- 9 Foot pump windshield washer
- 10 Wiper motor
- 11 Control switch for brake fluid
- 12 Control switch for parking brake
- 13 Flash signal mechanism
- 14 Horn ring
- 15 Combination switch
- a Flash signal switch
- b Flash approach signal switch
- c Hand dimmer
- d Windshield wiper switch
- e Wiper speed switch
- 16 Cigar lighter
- 17 Front left door contact
- 18 Reading light
- 19 Front right door contact
- 20 Roof-light switch (on Model 250 only)
- 21 Rear roof light (on Model 250 only)
- 22 Battery
- 23 Starter
- 24 Lead for optional extra (radio)
- 25 Automatic start mechanism on rear carburetor
- 26 Automatic start mechanism on front carburetor
- 27 Fuses
- 28 Rotary light switch
- 29 Ignition starter switch
- 30 Series resistance
- 31 Ignition coil
- 32 Spark plugs
- 33 Distributor
- 34 Sleeve union for tail light wiring harness
- 35 Fuel level indicator
- 36 Generator
- 37 Voltage regulator
- 38 Trunk compartment light
- 39 Right tail light
- 40 Left tail light
- a Flash signal
- b Tail light
- c Reversing light
- d Clearance light
- e Stop light
- 41 License plate light



Circuit Diagram

Models 230/8 and 250/8



1	Headlight unit, left	13	Glove compartment light switch	35	Rear dome light	Wire Color Code
2	Headlight unit, right	14	Glove compartment light	36	Battery	Ws = white
	a High beam	15	Thermoswitch 65° C	37	Starter	gn = green
	b Low beam	16	Solenoid valve, automatic transmission	38	Voltage regulator	br = brown
	c Turn signal light	17	Kick-down switch	39	Alternator	ge = yellow
	d Standing/parking light	18	Starter-lockout and back-up light switch	40	Radio	gr = grey
	e Fog light	19	Heater coil, automatic choke, front	41	Fuel gauge sensor	rs = pink
3	Relay of carburetor heater, rear	20	Fuse box	42	Blower motor	bl = blue
4	Brake fluid indicator light switch	21	Signal system contact	43	Plug connection, cable to rear components	rt = red
5	Parking brake indicator light switch	22	Combination switch	44	Spark plugs	sw = black
6	Instrument cluster		a Turn signal light switch	45	Distributor	el = ivory
	a Turn signal indicator light, left		b Passing light switch	46	Trunk light	nf = neutral
	b Turn signal indicator light, right		c Dimmer switch	47	Tail light unit, left	vi = purple
	c Fuel reserve warning light		d Wiper switch		a Turn signal light	
	d Fuel gauge		e Switch for wiping speed		b Tail/parking light	
	e Electric clock	23	Brake light switch		c Back-up light	
	f Rheostat, instrument lights	24	Blower switch		d Brake light	
	g Instrument lights	25	Pre-resistance, blower motor	48	License plate light	
	h Charge indicator light	26	Pre-resistance	49	Tail light unit, right	
	i High beam indicator light	27	Ignition coil		a Turn signal light	
	k Brake fluid and parking brake indicator light	28	Ignition starter switch		b Tail/parking light	
7	Dual-tone horns (fanfares)	29	Rotary light switch		c Back-up light	
8	4-way warning flasher switch/timer	30	Heater coil, automatic choke, rear		d Brake light	
9	Wiper motor	31	Door contact switch, front, left			
10	Washer pump	32	Front dome light w/switch			
11	Ashtay illumination	33	Door contact switch, front, right			
12	Cigar lighter	34	Rear dome light switch			

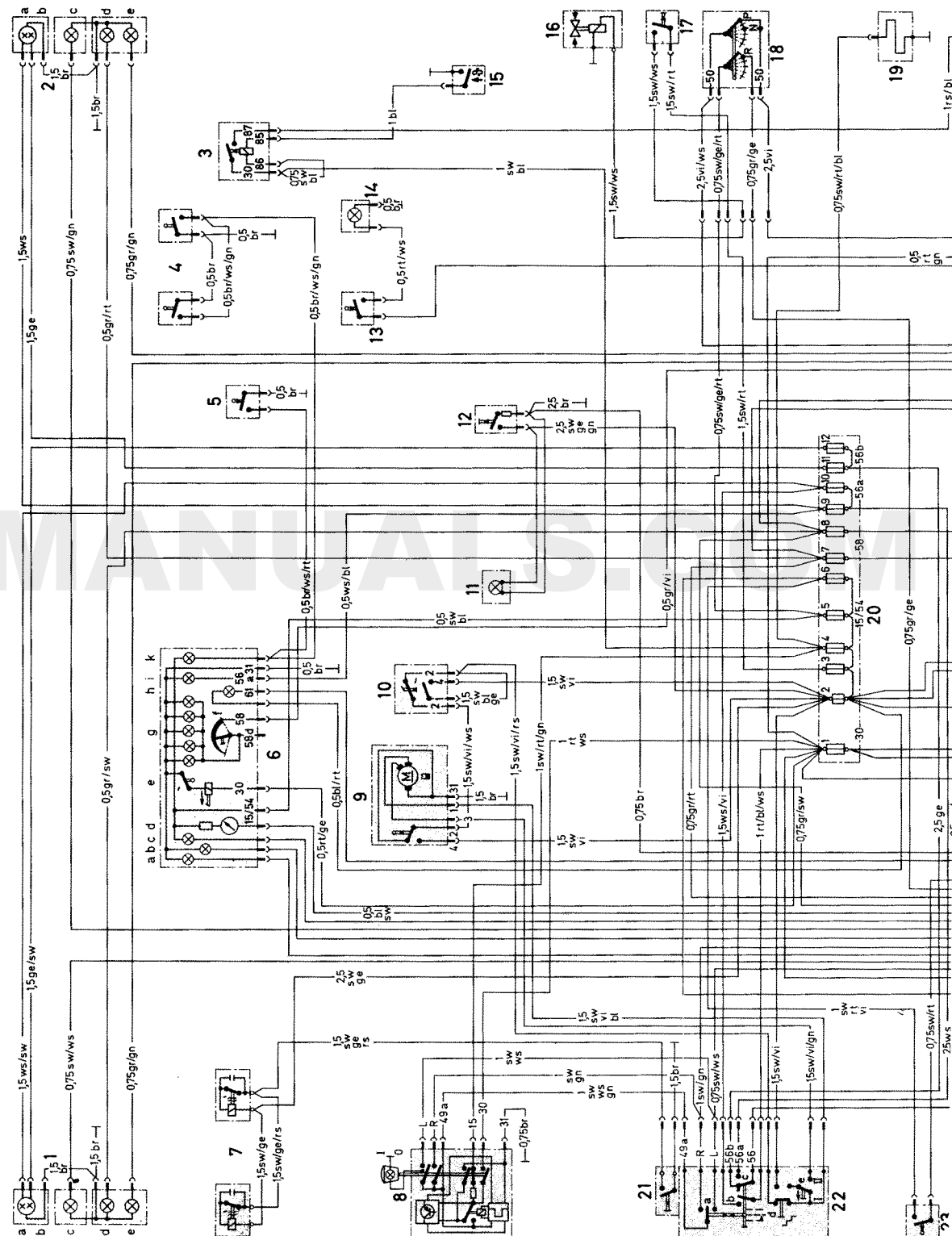
Example:

Wire designation 1.5 gr/rt

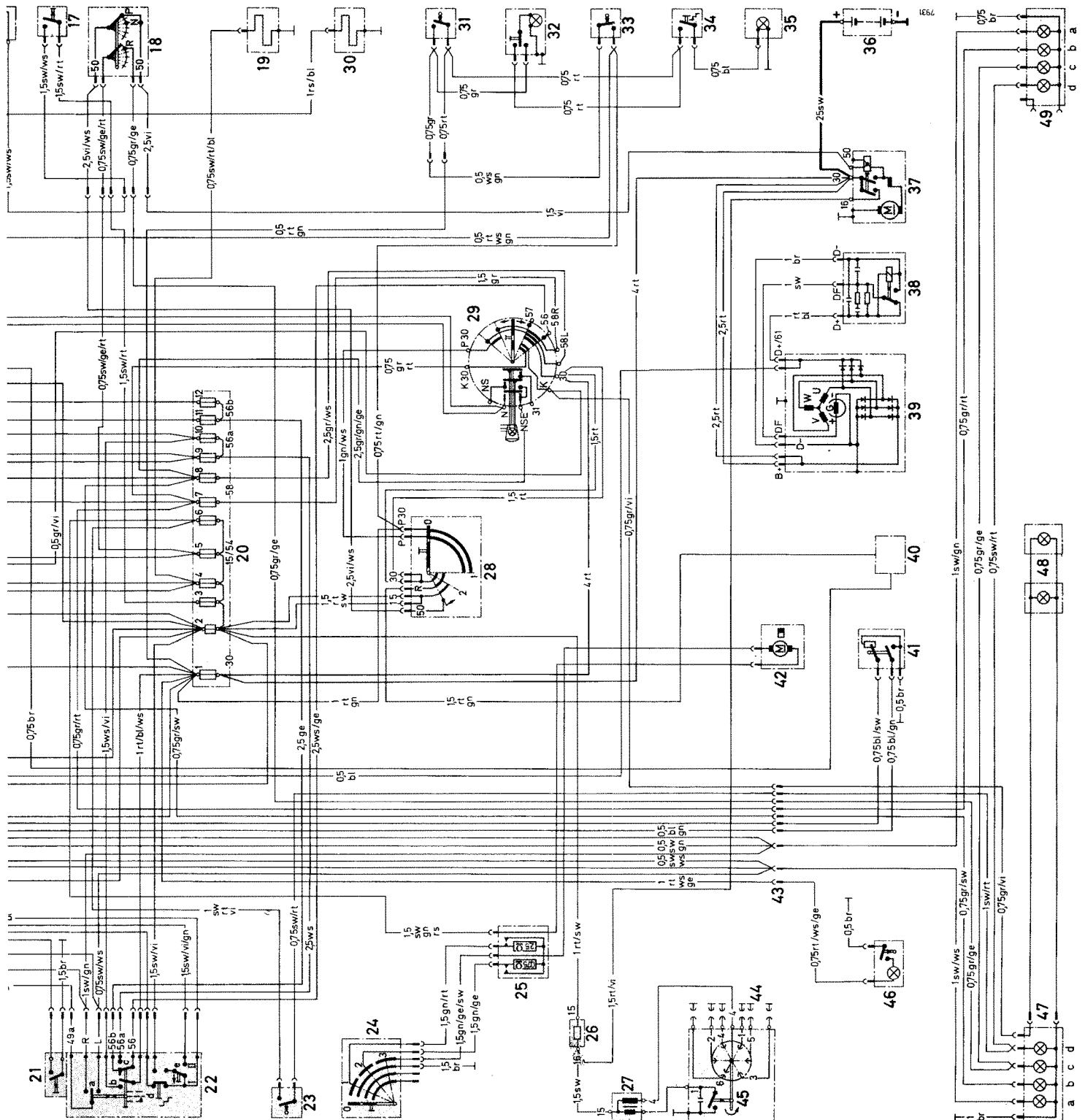
Basic color Gr = grey

Identification color rt = red

Cross section of wire 1.5 = 1.5 mm²



Model 230/8, 250/8, 250 C/8 from December 1970 to May 1972



1	Headlight unit, left	10	Signal system contact	31	Heater coil, automatic choke, rear	Wire Color Code
a	High beam	11	Wiper motor with interval timer	32	Door contact switch, front, left	ws = white
b	Low beam	12	Washer pump	33	Front dome light w/switch	gn = green
c	Turn signal light	13	Ashtray illumination	34	Door contact switch, front, right	br = brown
d	Standing/parking light	14	Cigar lighter	35	Rear dome light switch	ge = yellow
e	Fog light	15	Glove compartment light switch	36	Rear dome light	gr = grey
2	Headlight unit, right	16	Glove compartment light	37	Battery	rs = pink
a	High beam	17	Temperature switch 65° C	38	Starter	bl = blue
b	Low beam	18	Solenoid valve, automatic transmission	39	Voltage regulator	rt = red
c	Turn signal light	19	Kick-down switch	40	Alternator	sw = black
d	Standing/parking light	20	Starter-lockout and back-up light switch	41	Radio	el = ivory
e	Fog light	21	Heater coil, automatic choke, front	42	Fuel gauge sensor	nf = neutral
3	Relay for carburetor heater, rear	22	Fuse box	43	Blower motor	vi = purple
4	Brake fluid indicator light switch	23	Combination switch	44	Plug connection, cable to rear components	
5	Parking brake indicator light switch	a	Turn signal light switch	45	Spark plugs	
6	Instrument cluster	b	Passing light switch	46	Distributor	
a	Turn signal indicator light, left	c	Dimmer switch	47	Trunk light	
b	Turn signal indicator light, right	d	Wiper switch	48	Tail light unit, left	
c	Fuel reserve warning light	e	Switch for wiping speed	a	Turn signal light	
d	Fuel gauge	I	Slow wiping	b	Tail/parking light	
e	Coolant temperature gauge	II	Fast wiping	c	Back-up light	
f	Electric clock	III	Interval wiping	d	Brake light	
g	Instrument lights	24	Brake light switch	49	License plate lights	
h	Rheostat, instrument lights	25	Blower switch	50	Tail light unit, right	
i	Charge indicator light	26	Pre-resistance, blower motor	a	Turn signal light	
k	High beam indicator light	27	Pre-resistance	b	Tail/parking light	
1	Brake fluid and parking brake indicator light	28	Ignition coil	c	Back-up light	
7	Temperature sensor, coolant	29	Ignition starter switch	d	Brake light	
8	Dual-tone horns (fanfares)	30	Rotary light switch			
9	4-way warning flasher switch/timer					

Example:

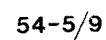
Wire designation 1. 5 gr/rt

Basic color gr = grey

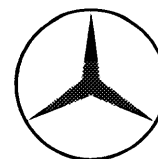
Identification color rt = red

Cross section of wire 1. 5 = 1. 5 mm²





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Electric wiring diagram
Emission control 1972

220

Explanation of wiring diagram with "Automatic Transmission", "Air Conditioner" and "Emission control 1972"

1	Light assembly, left	22	Door contact switch, left, front	48	Delay switch
a	High beam	23	Courtesy light	49	Relay-Two-way valve ignition distributor (emission control)
b	Low beam	24	Door contact switch, right, front	50	Transistorized ignition switch unit
c	Turn signal	25	Thermostatic switch dehydrator (air conditioner)	51	Ignition coil
d	Parking light/Side light	26	Fuse box, houses 2 fuses (auxiliary fan)	52	Series resistor 0.6 Ω
e	Fog light	27	Switch, glove compartment light	53	Series resistor 0.4 Ω
2	Side marker light, left	28	Glove compartment light	54	Blower motor (air conditioner)
3	Solenoid valve on automatic transmission	29	Rear roof light switch	55	Thermostat and control switch (air conditioner)
4	Two-tone horn	30	Rear roof light	56	Change-over switch, cooling - heating
5	Cigar lighter with ashtray illumination	31	Fuses	57	Blower motor series resistor
6	Instrument cluster	32	Horn ring	58	Blower motor (heater)
a	Turn signal indicator, left	33	Combination switch	59	Relay (air conditioning compressor)
b	Turn signal indicator, right	a	Turn signal switch	60	Electro-magnetic clutch air conditioning compressor
c	Fuel reserve warning light	b	Headlight flasher switch	61	Indicator light (air conditioner)
d	Fuel gauge	c	Hand-operated dimmer switch	62	Fuse box, houses 2 fuses (air conditioner)
e	Electric clock	d	Windshield wiper switch	63	Battery
f	Instrument lighting rheostat	e	Switch windshield wiper speed	64	Starter
g	Instrument lighting	34	Starting lock switch and back-up light switch (automatic transmission)	65	Regulator
h	Charging indicator light	35	Kickdown switch (automatic transmission)	66	Alternator
i	High beam indicator light	36	Idle speed shut-off valve	67	Fuel gauge sending unit
j	Brake fluid level/ parking brake warning light	37	Two-way valve ignition distributor (emission control)	68	Plug connection for tail light wiring harness
7	Warning light for safety belt warning system	38	Two-way valve, throttle valve (emission control)	69	Temperature switch 212° F (100° C)
8	Electrically operated fan	39	Lead for radio	70	Trunk light
9	Parking brake warning light switch	40	Starter relay (automatic transmission)	71	Spark plugs
10	Light assembly, right	41	Relay warning system (automatic transmission)	72	Ignition distributor
a	High beam	42	Control switches for safety belt warning system	73	Side marker light, left
b	Low beam	a	switch in driver's seat belt reel	74	Tail light assembly, L-H side
c	Turn signal	b	switch in front passenger seat belt reel	a	Turn signal
d	Parking light/Side light	c	switch in front passenger seat	b	Tail light/Side light
e	Fog light	43	Blower switch	c	Back-up light
11	Side marker light, right	44	Light switch	d	Stop light
12	Warning buzzer	45	Ignition switch	75	Licence plate light
13	Buzzer switch	46	Carburetor heater (emission control)	76	Tail light assembly, R-H side
14	Relay of electrically operated fan	47	Rpm-controlled switch (emission control)	a	Turn signal
15	Hazard warning flasher switch			b	Tail light/Side light
16	Warning light switch, brake fluid level			c	Back-up light
17	Flasher transmitter			d	Stop light
18	Stop light switch			77	Side marker light, right
19	Windshield wiper motor				
20	Foot pump, windshield washer				
21	Relay emission control				

Wire color code

ws	==	white
gn	==	green
br	==	brown
ge	==	yellow
gr	==	gray
rs	==	pink
bl	==	blue
rt	==	red
sw	==	black
el	==	ivory
nf	==	neutral
vi	==	violet
li	==	lilac

Example:

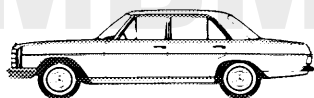
wire designation 1,5 gr/rt
Basic color gr == gray
Identification color rt == red
Cross section of wire 1,5 = 1.5 mm²

This is a complex wiring diagram for a vehicle's electrical system. It features 77 numbered components, including switches, relays, lights, and a central control unit. The diagram is densely packed with lines representing electrical wires, each labeled with a code indicating its gauge and color (e.g., 15ws, 075gr, 15br). The components are arranged in a grid-like fashion, with the central unit (31) acting as a hub for many connections. The diagram is a technical drawing, likely from a service manual, showing the internal wiring of a vehicle's electrical system.

Mercedes-Benz
220 D



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Electric wiring diagram

USA Model

Explanation of wiring diagram with "Automatic Transmission" and "Air Conditioner"

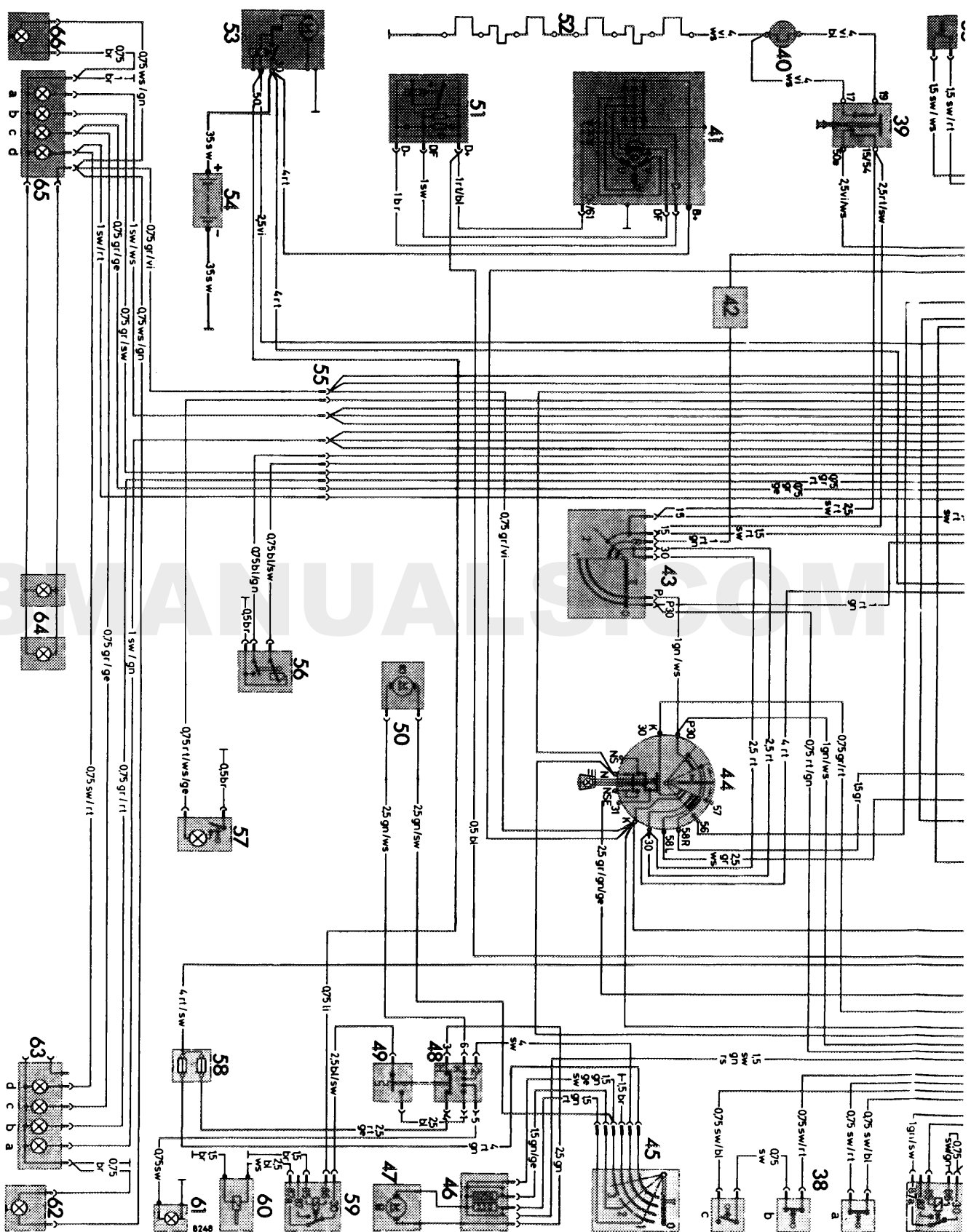
1 Light assembly, left	15 Hazard warning flasher switch	37 Relay warning system (automatic transmission)	60 Electro-magnetic clutch air conditioning compressor
a High beam	16 Warning light switch, brake fluid level	38 Control switches for safety belt warning system	61 Indicator light (air conditioner)
b Low beam	17 Flasher transmitter	a switch in driver's seat belt reel	62 Side marker light, right
c Turn signal	18 Stop light switch	b switch in front passenger seat belt reel	63 Tail light assembly, R-H side
d Parking light/Side light	19 Windshield wiper motor	c switch in front passenger seat	a Turn signal
e Fog light	20 Foot pump, windshield washer	39 Glow plug switch	b Tail light/Side light
2 Side marker light, left	21 Temperature switch 212° F (100° C)	40 Glow plug control lamp	c Back-up light
3 Solenoid valve on automatic transmission	22 Door contact switch, left, front	41 Alternator	d Stop light
4 Two-tone horn	23 Courtesy light	42 Lead for radio	64 Licence plate light
5 Cigar lighter with ashtray illumination	24 Door contact switch, right, front	43 Ignition switch	65 Tail light assembly, L-H side
6 Instrument cluster	25 Thermostatic switch dehydrator (air conditioner)	44 Light switch	a Turn signal
a Turn signal indicator, left	26 Fuse box, houses 2 fuses (auxiliary fan)	45 Blower switch	b Tail light/Side light
b Turn signal indicator, right	27 Switch, glove compartment light	46 Blower motor series resistor	c Back-up light
c Fuel reserve warning light	28 Glove compartment light	47 Blower motor (heater)	d Stop light
d Fuel gauge	29 Rear roof light switch	48 Change-over switch, cooling – heating	66 Side marker light, left
e Electric clock	30 Rear roof light	49 Thermostat and control switch (air conditioner)	
f Instrument lighting rheostat	31 Fuses	50 Blower motor (air conditioner)	
g Instrument lighting	32 Horn ring	51 Regulator	
h Charging indicator light	33 Combination switch	52 Glow plugs and series resistor	
i High beam indicator light	a Turn signal switch	53 Starter	
j Brake fluid level/ parking brake warning light	b Headlight flasher switch	54 Battery	
7 Warning light for safety belt warning system	c Hand-operated dimmer switch	55 Plug connection for tail light wiring harness	
8 Electrically operated fan	d Windshield wiper switch	56 Fuel gauge sending unit	
9 Parking brake warning light switch	e Switch windshield wiper speed	57 Trunk light	
10 Light assembly, right	34 Starting lock switch and back-up light switch (automatic transmission)	58 Fuse box, houses 2 fuses (air conditioner)	
a High beam	35 Kickdown switch (automatic transmission)	59 Relay (air conditioning compressor)	
b Low beam	36 Starter relay (automatic transmission)		
c Turn signal			
d Parking light/Side light			
e Fog light			
11 Side marker light, right			
12 Warning buzzer			
13 Buzzer switch			
14 Relay of electrically operated fan			

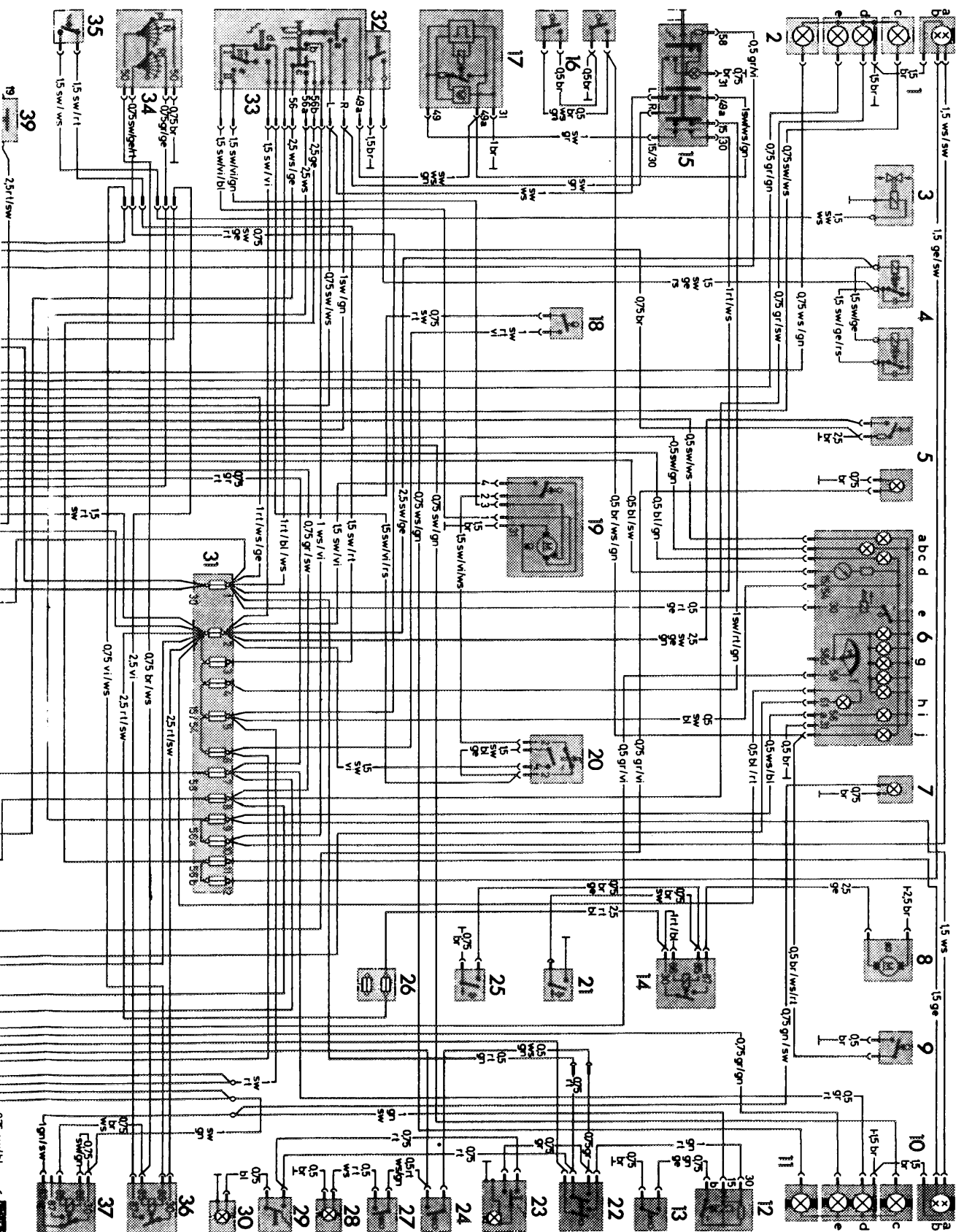
Wire color code

ws = white
 gn = green
 br = brown
 ge = yellow
 gr = gray
 rs = pink
 bl = blue
 rt = red
 sw = black
 el = ivory
 nf = neutral
 vi = violet
 li = lilac

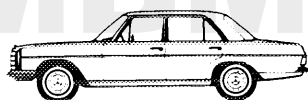
Example:

wire designation 1,5 gr/rt
 Basic color gr = gray
 Identification color rt = red
 Cross section of wire 1,5 = 1.5 mm²





Mercedes-Benz
220



Electric Wiring Diagram

Emission control 1973

Electrical Wiring Diagram Type 220

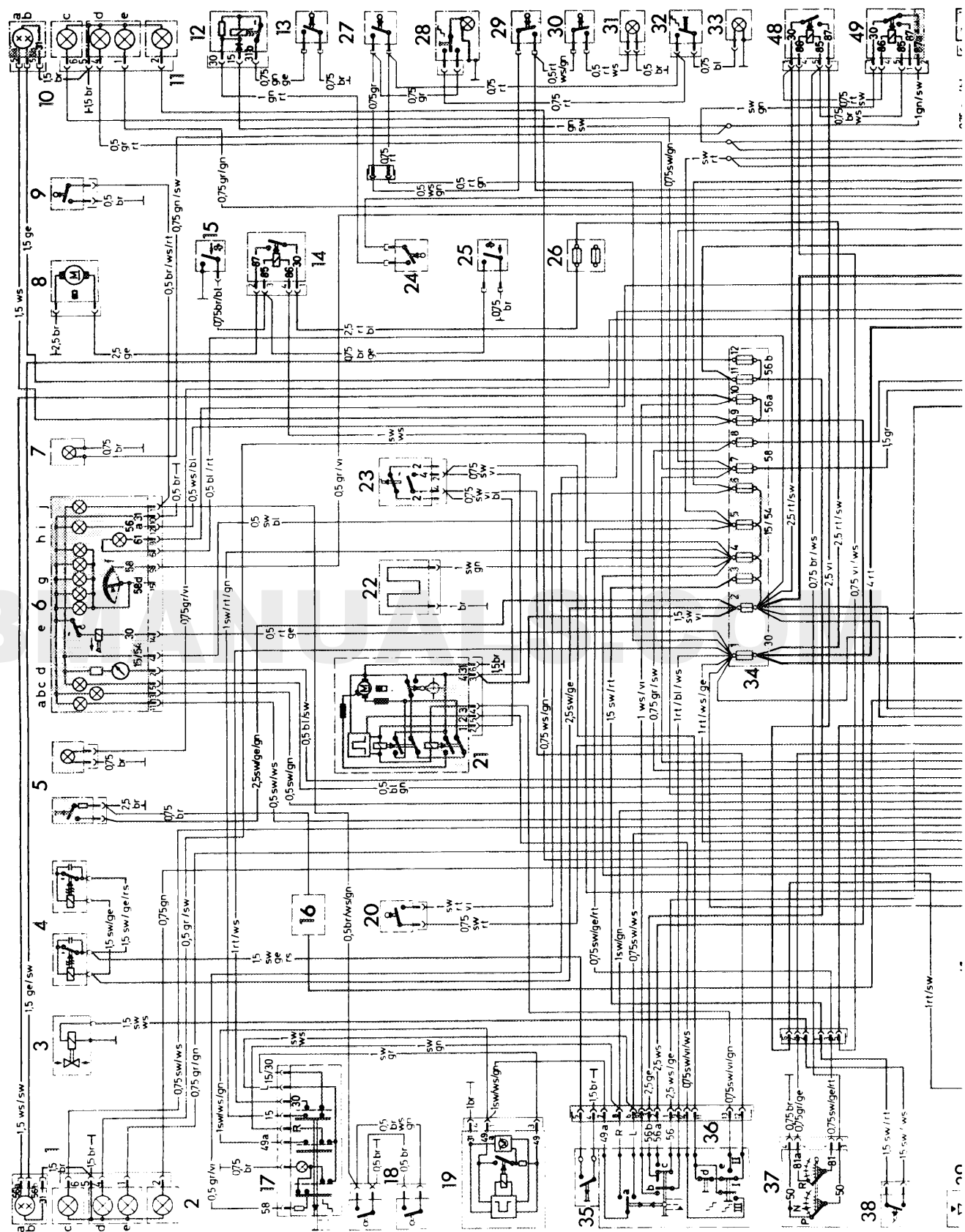
- | | | | |
|---|---|--|---------------------------|
| 1 Light unit left | 16 Radio | 46 Ignition starter switch | 76 Tail light - right |
| a High beam | 17 4-way warning flasher switch | 47 Rotary light switch | a Turn signal light |
| b Low beam | 18 Brake fluid control switch | 48 Relay starter | b Tail and parking light |
| c Turn signal light | 19 Flasher transmitter | 49 Warning system relay | c Back-up light |
| d Standing / parking light | 20 Brake light switch | 50 Safety belt warning system | d Brake light |
| e Fog lamp | 21 Wiper motor | a Driver's seat retractor switch | 77 License plate light |
| 2 Side marker light left | 22 Carburetor heater | b Passenger seat retractor switch | 78 Tail light left |
| 3 Solenoid valve for automatic transmission | 23 Footpump — windshield washer | c Switch in front passenger seat | a Turn signal light |
| 4 Dual-tone horns (fanfares) | 24 Door contact switch for warning buzzer | 51 Blower switch | b Tail and parking light |
| 5 Cigar lighter with ashtray illumination | 25 Thermostatic switch dehydrator (air conditioner) | 52 Pre-resistance for blower motor | c Back-up light |
| 6 Instrument cluster | 26 Fuse box, 2 fuses (auxiliary fan) | 53 Blower motor (heater) | d Brake light |
| a Turn signal control - left | 27 Door contact left front | 54 Relay refrigerant compressor | 79 Side marker light left |
| b Turn signal control - right | 28 Reading light | 55 Change-over switch, cooling-heating | |
| c Fuel reserve warning light | 29 Door contact switch right front | 56 Thermostat and control switch (air conditioner) | |
| d Fuel gauge | 30 Switch for glove compartment light | 57 Blower motor (air conditioner) | |
| e Electric clock | 31 Glove compartment light | 58 Pre-resistance 0.4 Ω | |
| f Rheostat — instrument lights | 32 Rear dome light switch | 59 Pre-resistance 0.6 Ω | |
| g Instrument lights | 33 Rear dome light | 60 Transistorized ignition switching unit | |
| h Charge indicator light | 34 Fuses | 61 Ignition coil | |
| i High beam pilot | 35 Horn ring | 62 Distributor | |
| j Service and parking brake pilot | 36 Combination switch | 63 Spark plugs | |
| 7 Safety belt warning light | a Turn signal light switch | 64 Trunk light | |
| 8 Electric fan | b Passing light switch | 65 Temperature switch 25° C (77° F) emission control | |
| 9 Switch for parking brake pilot | c Manual dimmer switch | 66 Plug connection for tail light unit | |
| 10 Light unit right | d Wiper switch | 67 Fuel tank gauge sensor | |
| a High beam | e Switch for wiping speed | 68 Alternator | |
| b Low beam | 37 Starter-lockout and back-up light switch | 69 Regulator | |
| c Turn signal light | 38 Kick-down switch | 70 Starter | |
| d Standing / parking light | 39 Change-over valve, emission recycling | 71 Battery | |
| e Fog lamp | 40 Relay box emission control | 72 Fuse box, 2 fuses (air conditioner) | |
| 11 Side marker light right | 41 Rpm switch emission control | 73 Solenoid clutch for refrigerant compressor | |
| 12 Warning buzzer | 42 Change-over valve, ignition switch-over | 74 Control light (air conditioner) | |
| 13 Warning buzzer contact | 43 Delay relay | 75 Side marker light right | |
| 14 Electric fan relay | 44 Change-over valve, throttle valve lift | | |
| 15 Temperature switch 100° C (212° F) | 45 Idle fuel cut-out valve | | |

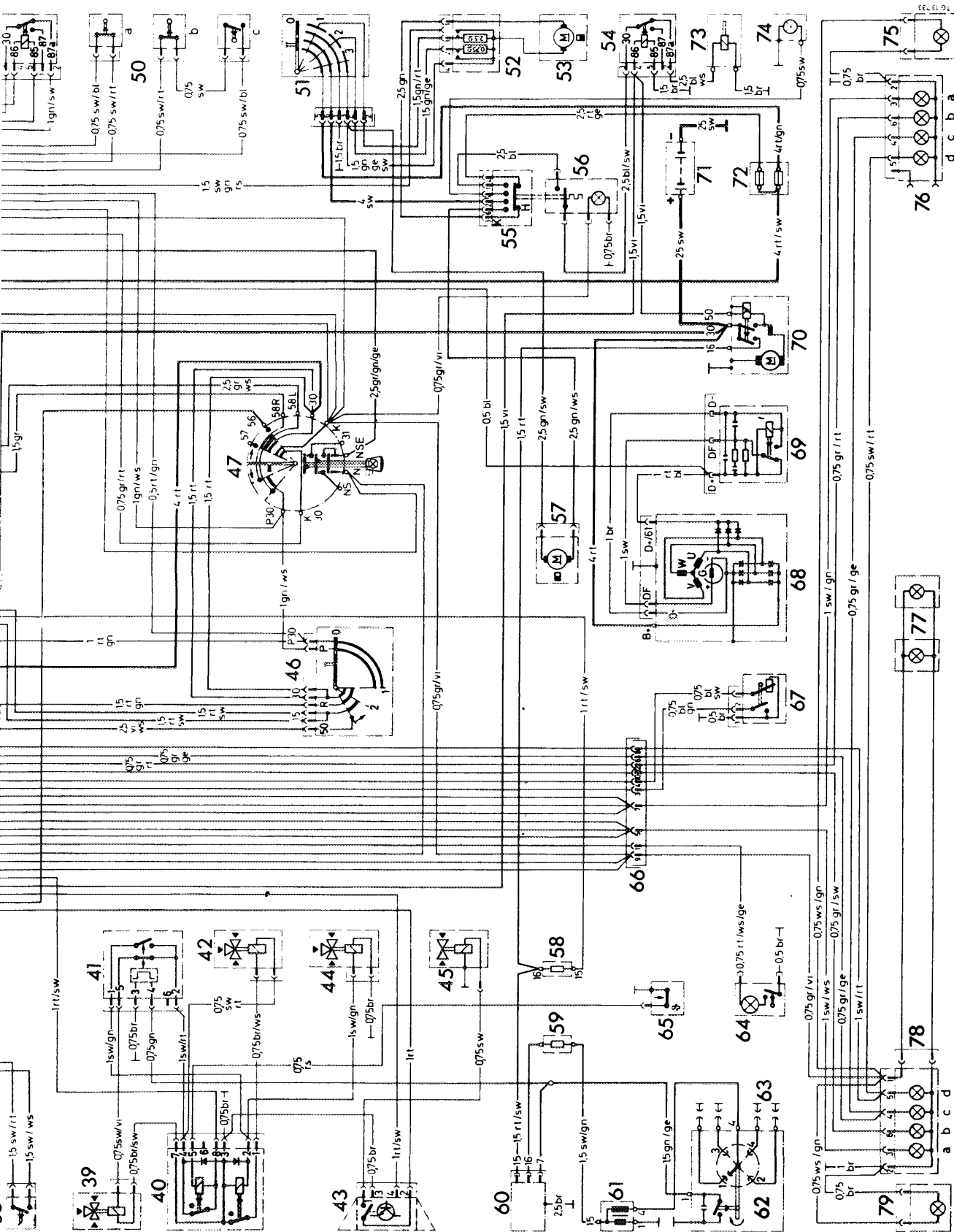
Wire Color Code

ws = white
 gn = green
 br = brown
 ge = yellow
 gr = gray
 rs = pink
 bl = blue
 rt = red
 sw = black
 el = ivory
 nf = neutral
 vi = violet

Example:

Wire designation 1.5 gr/rt
 Basic color gr = gray
 Identification color rt = red
 Cross section of wire 1.5 = 1.5 mm²

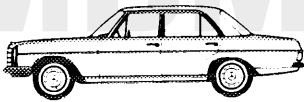




Mercedes-Benz
220 D



MBMANUALS.COM



Electric Wiring Diagram

Emission control 1973

Electrical Wiring Diagram Type 220 D

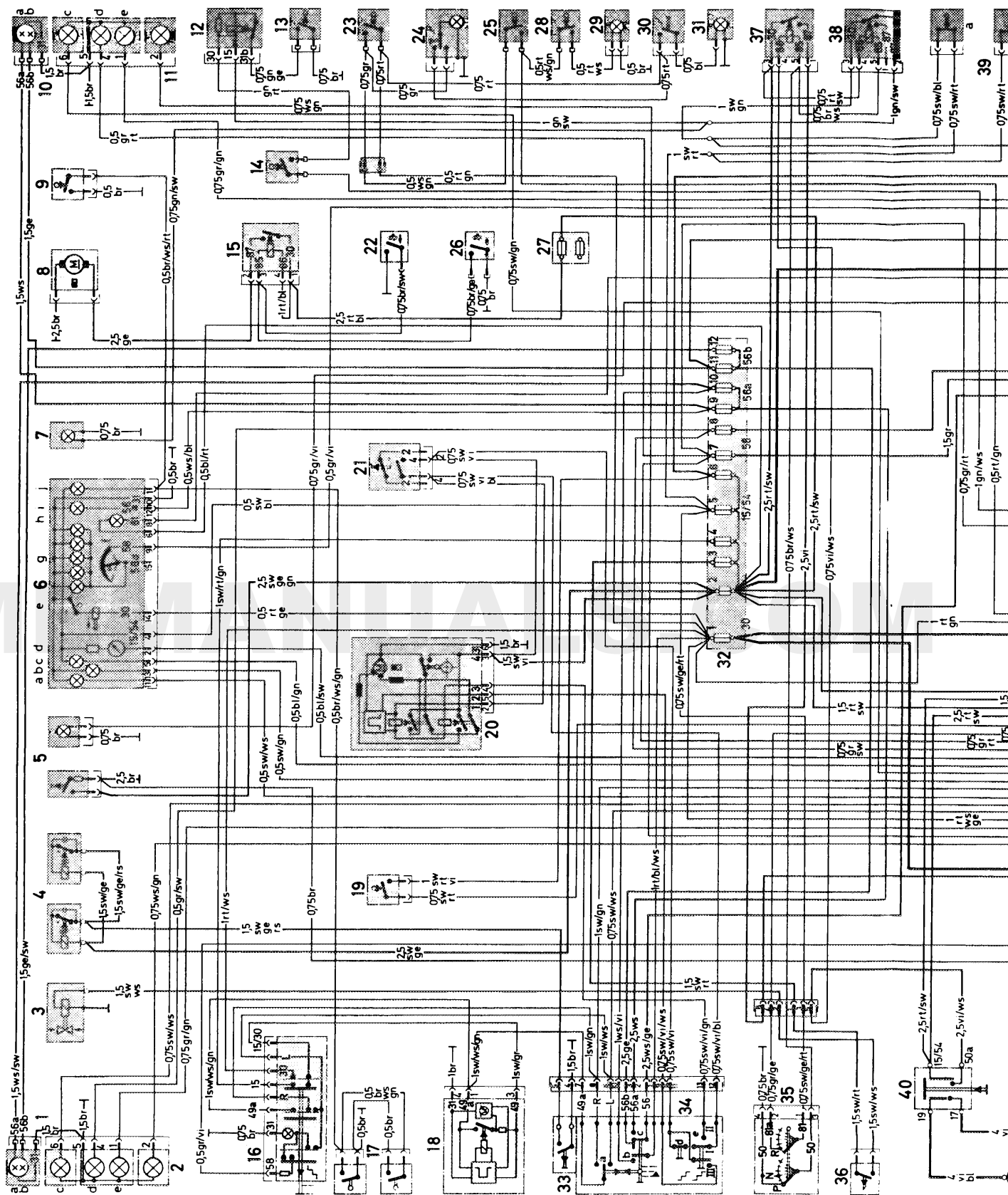
- | | | |
|---|--|--|
| 1 Light unit left | 16 4-way warning flasher switch | 42 Alternator |
| a High beam | 17 Brake fluid control switch | 43 Radio |
| b Low beam | 18 Flasher transmitter | 44 Steering lock switch |
| c Turn signal light | 19 Brake light switch | 45 Rotary light switch |
| d Standing/parking light | 20 Wiper motor | 46 Blower switch |
| e Fog lamp | 21 Foot pump — windshield washer | 47 Pre-resistance for blower motor |
| 2 Side marker light left | 22 Temperature switch: 100° (212° F) | 48 Blower motor (heater) |
| 3 Solenoid valve for automatic transmission | 23 Door contact left | 49 Change-over switch, cooling - heating |
| 4 Dual-tone horns (fanfares) | 24 Reading light | 50 Thermostat and control switch (air conditioner) |
| 5 Cigar lighter with ashtray illumination | 25 Door contact — right front | 51 Blower motor (air conditioner) |
| 6 Instrument cluster | 26 Thermostatic switch dehydrator (air conditioner) | 52 Regulator |
| a Turn signal control — left | 27 Fuse box, 2 fuses (auxiliary fan) | 53 Glow plugs and series resistor |
| b Turn signal control — right | 28 Switch for glove compartment light | 54 Starter |
| c Fuel reserve warning light | 29 Glove compartment light | 55 Battery |
| d Fuel gauge | 30 Rear dome light switch | 56 Plug connection for tail light unit |
| e Electric clock | 31 Rear dome light | 57 Fuel tank gauge sensor |
| f Rheostat — instrument lights | 32 Fuses | 58 Trunk light |
| g Instrument lights | 33 Horn ring | 59 Fuse box, 2 fuses (refrigerant compressor) |
| h Charge indicator control | 34 Combination switch | 60 Relay (refrigerant compressor) |
| i High beam pilot | a Turn signal light switch | 61 Solenoid clutch for refrigerant compressor |
| j Service and parking brake pilot | b Passing light switch | 62 Control light (air conditioner) |
| 7 Safety belt warning light | c Manual dimmer switch | 63 Side marker light right |
| 8 Electric fan | d Wiper switch | 64 Tail light — right |
| 9 Switch for parking brake pilot | e Switch for wiping speed | a Turn signal light |
| 10 Light unit right | 35 Starter-lockout and back-up light switch (automatic transmission) | b Tail and parking light |
| a High beam | 36 Kick-down switch | c Back-up light |
| b Low beam | 37 Starter relay | d Brake light |
| c Turn signal light | 38 Warning system relay | 65 License plate lights |
| d Standing/parking light | 39 Safety belt warning system | 66 Tail light — left |
| e Fog lamp | a Driver's seat retractor switch | a Turn signal light |
| 11 Side marker light — left | b Passenger seat retractor switch | b Tail and parking light |
| 12 Warning buzzer | c Switch in front passenger seat | c Back-up light |
| 13 Warning buzzer contact | 40 Glow starter switch | d Brake light |
| 14 Door contact switch — right | 41 Glow plug resistance control | 67 Side marker light left |
| 15 Electric fan relay | | |

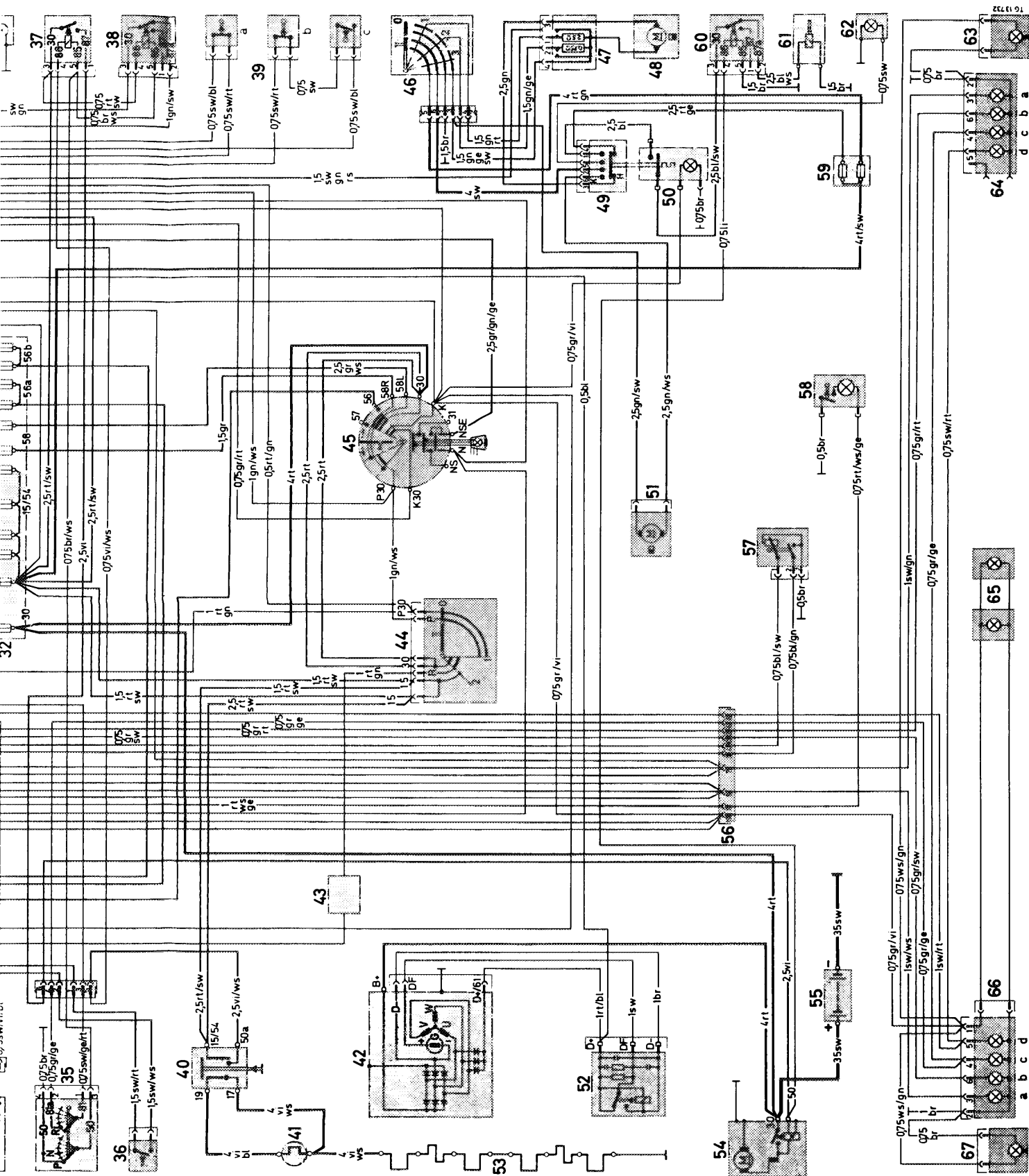
Wire Color Code

ws = white
 gn = green
 br = brown
 ge = yellow
 gr = gray
 rs = pink
 bl = blue
 rt = red
 sw = black
 el = ivory
 nf = neutral
 vi = violet

Example:

Wire designation 1.5 gr/rt
 Basic color gr = gray
 Identification color rt = red
 Cross section of wire 1.5 = 1.5 mm²

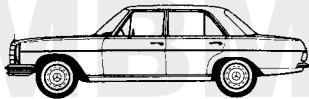




Mercedes-Benz

280

280 C



Electric Wiring Diagram

Emission control 1973

Electrical Wiring Diagram Type 280 · 280 C (114.060/073)

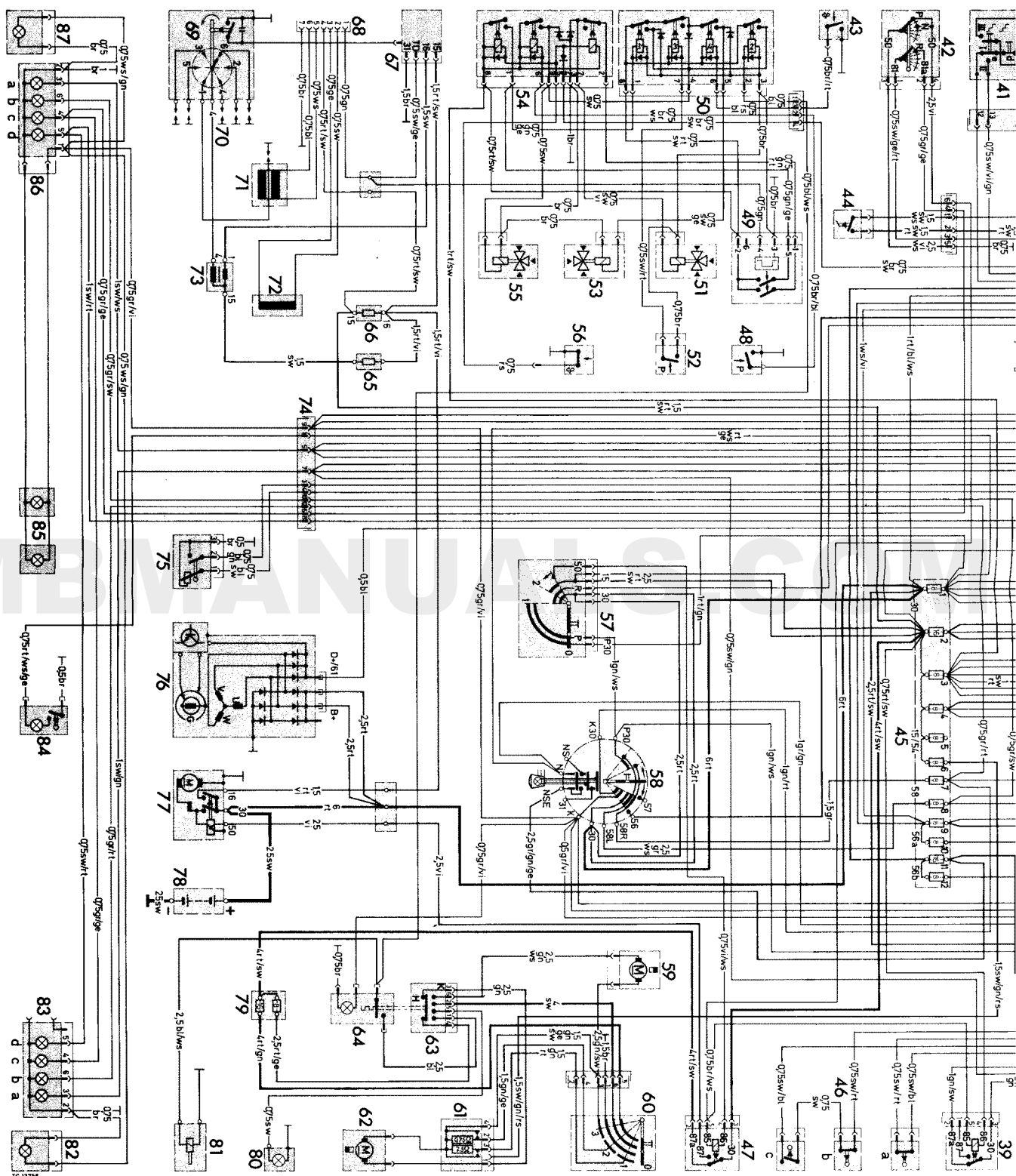
1	Light unit left	17	Illumination, selector lever, automatic transmission	46	Safety belt warning system	80	Control light (air conditioner)
a	High beam	18	Temperature sensor, coolant	a	Driver's seat retractor switch	81	Solenoid clutch for refrigerant compressor
b	Low beam	19	Brake light switch	b	Passenger seat retractor switch	82	Side marker light right
c	Turn signal light	20	4-way warning flasher switch	c	Switch in front passenger seat	83	Tail light — right
d	Standing / parking light	21	Brake fluid control switch	47	Relay starter/air conditioner	a	Turn signal light
e	Fog lamp	22	Flasher transmitter	48	Oil pressure switch 1.2 atu (17 psi)	b	Tail and parking light
2	Side marker light left	23	Radio	49	Rpm switch (emission control)	c	Back-up light
3	Solenoid valve for automatic transmission	24	Wiper motor	50	Relay box, emission control (5)	d	Brake light
4	Dual-tone horns (fanfares)	25	Foot pump — windshield washer	51	Change-over valve, throttle valve lift	84	Trunk light
5	Cigar lighter with ashtray illumination	26	Idle cut-off valves, carburetor	52	0.2 atu (6") vacuum switch	85	Licence plate light
6	Instrument cluster	27	Idle cut-off valves, carburetor	53	Change-over valve, exhaust recycling	86	Tail light — left
a	Turn signal control - left	28	Electric fan relay	54	Relay box, emission control (5a)	a	Turn signal light
b	Turn signal control - right	29	Door contact switch for warning bozzer	55	Change-over valve, ignition switch-over	b	Tail and parking light
c	Fuel reserve warning light	30	Thermostatic switch dehydrator (air conditioner)	56	Temperature switch 170° C (630° F) (emission control)	c	Back-up light
d	Fuel gauge	31	Fuse box, 2 fuses (auxiliary fan)	57	Ignition starter switch	d	Brake light
e	Temperature gauge	32	Door contact switch — left front	58	Rotary light switch	87	Side marker light left
f	Electric clock	33	Reading light	59	Blower motor, auxiliary fan		
g	Instrument light	34	Door contact switch — right front	60	Blower switch		
h	Rheostat — instrument lights	35	Switch for glove compartment light	61	Pre-resistance for blower motor		
i	Charge indicator light	36	Glove compartment light	62	Blower motor (heater)		
k	High beam pilot	37	Rear dome light switch	63	Thermostat and control switch (air conditioner)		
l	Service and parking brake pilot	38	Rear dome light	64	Change-over switch, cooling/heating		
7	Switch for parking brake pilot	39	Warning system relay	65	Pre-resistance 0.6 Ω		
8	Relay, cut-out air conditioner (auxiliary fan from ignition switch-over)	40	Horn ring	66	Pre-resistance 0.4 Ω		
9	Safety belt warning light	41	Combination switch	67	Transistorized ignition switching unit		
10	Light unit right	a	Turn signal light switch	68	Diagnostic plug		
a	High beam	b	Passing light switch	69	Distributor		
b	Low beam	c	Manual dimmer switch	70	Spark plugs		
c	Turn signal light	d	Wiper switch	71	Impulse trigger sensor		
d	Standing / parking light	e	Switch for wiping speed and intermittent wiping	72	Top dead center sensor		
e	Fog lamp	42	Starter-lockout and back-up light switch	73	Ignition coil		
11	Side marker light right	43	Temperature switch 65° C (149° F), emission control	74	Plug connection for tail light unit		
12	Warning buzzer	44	Kick down switch	75	Fuel tank gauge sensor		
13	Warning buzzer contact	45	Fuses	76	Alternator with electronic regulator		
14	Temperature switch: 100° C (212° F)			77	Starter		
15	Electric fan			78	Battery		
16	Carburetor heater			79	Fuse box, 2 fuses (air conditioner)		

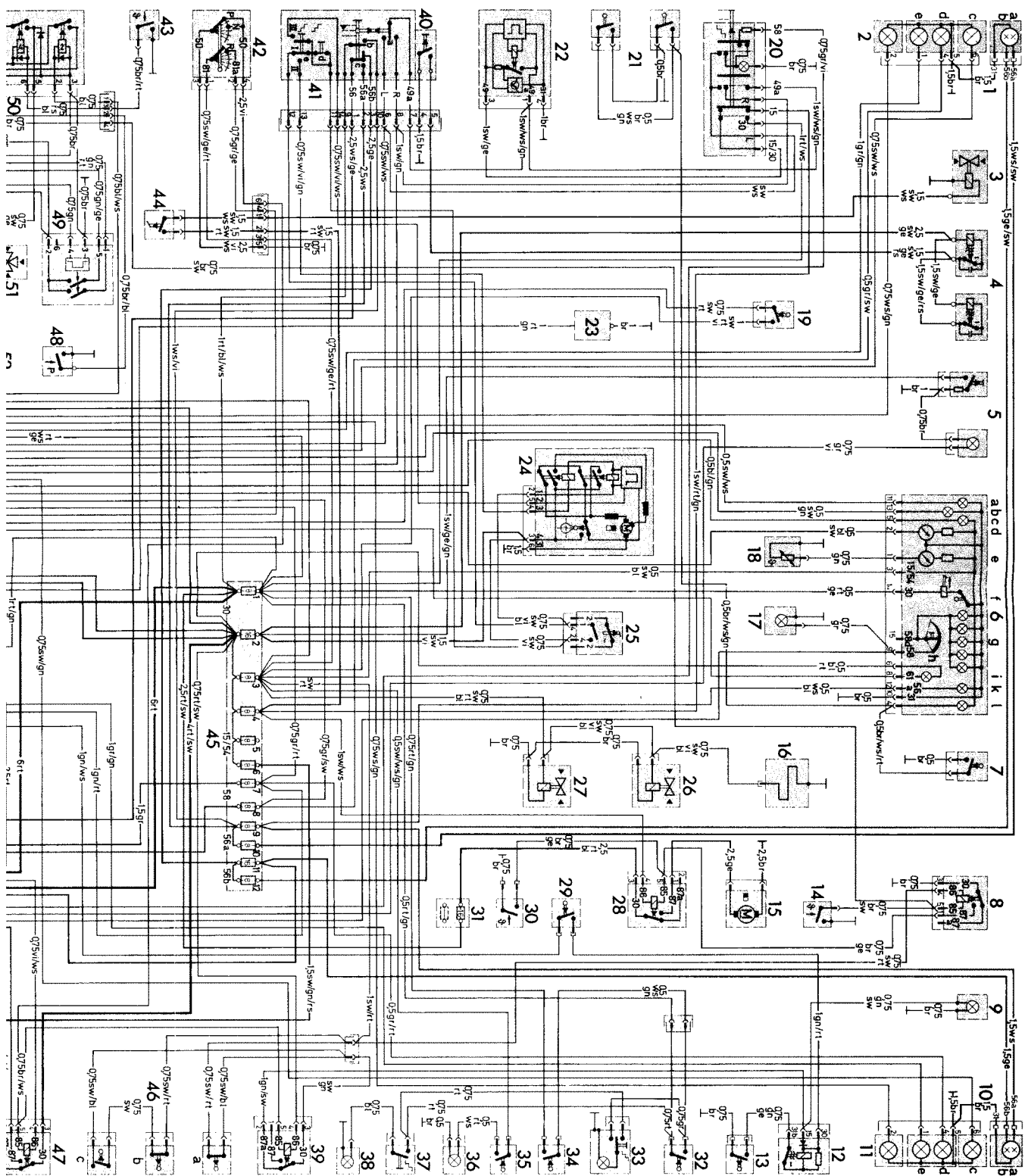
Wire Color Code

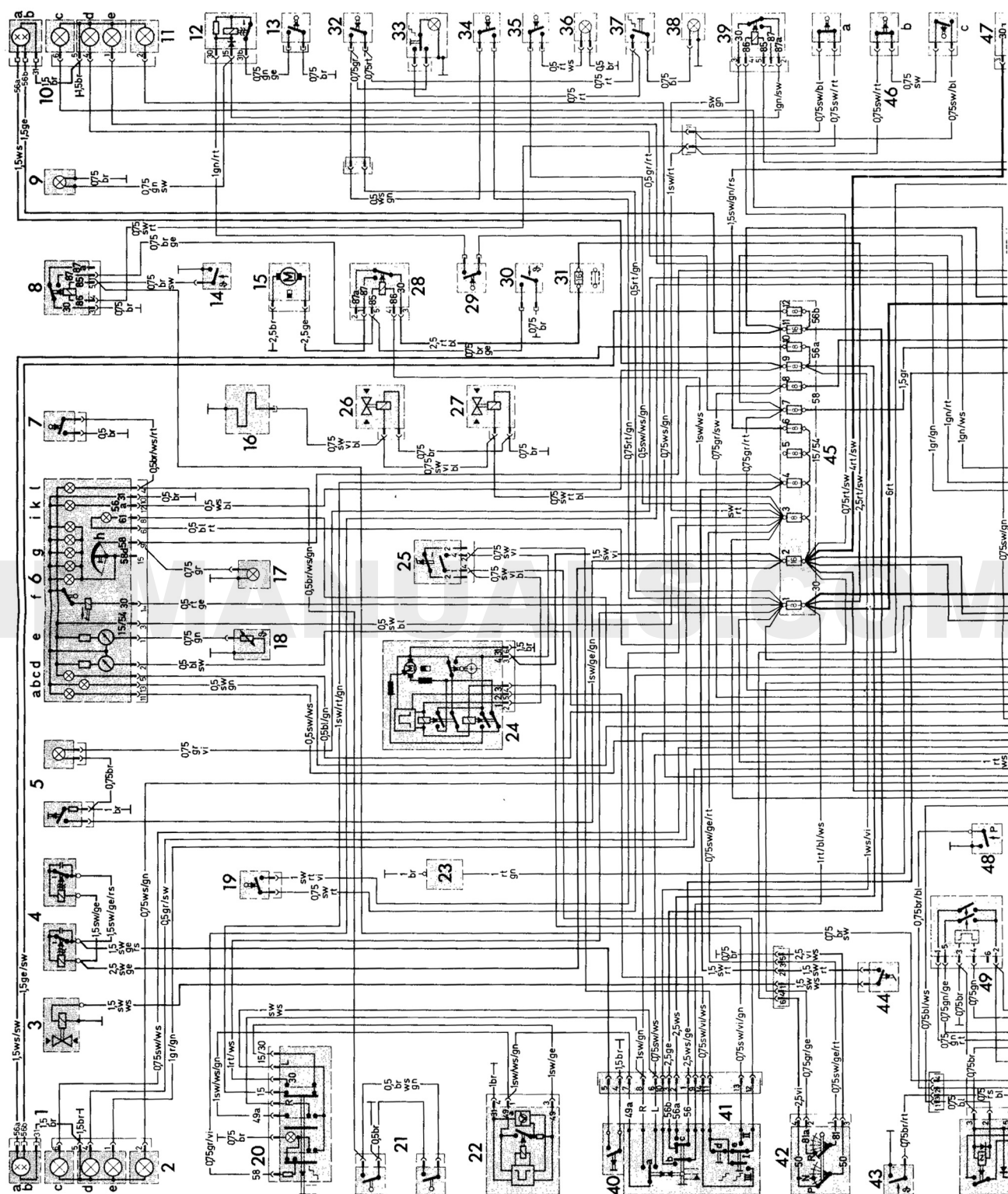
ws = white
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gr = gray
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vi = violet

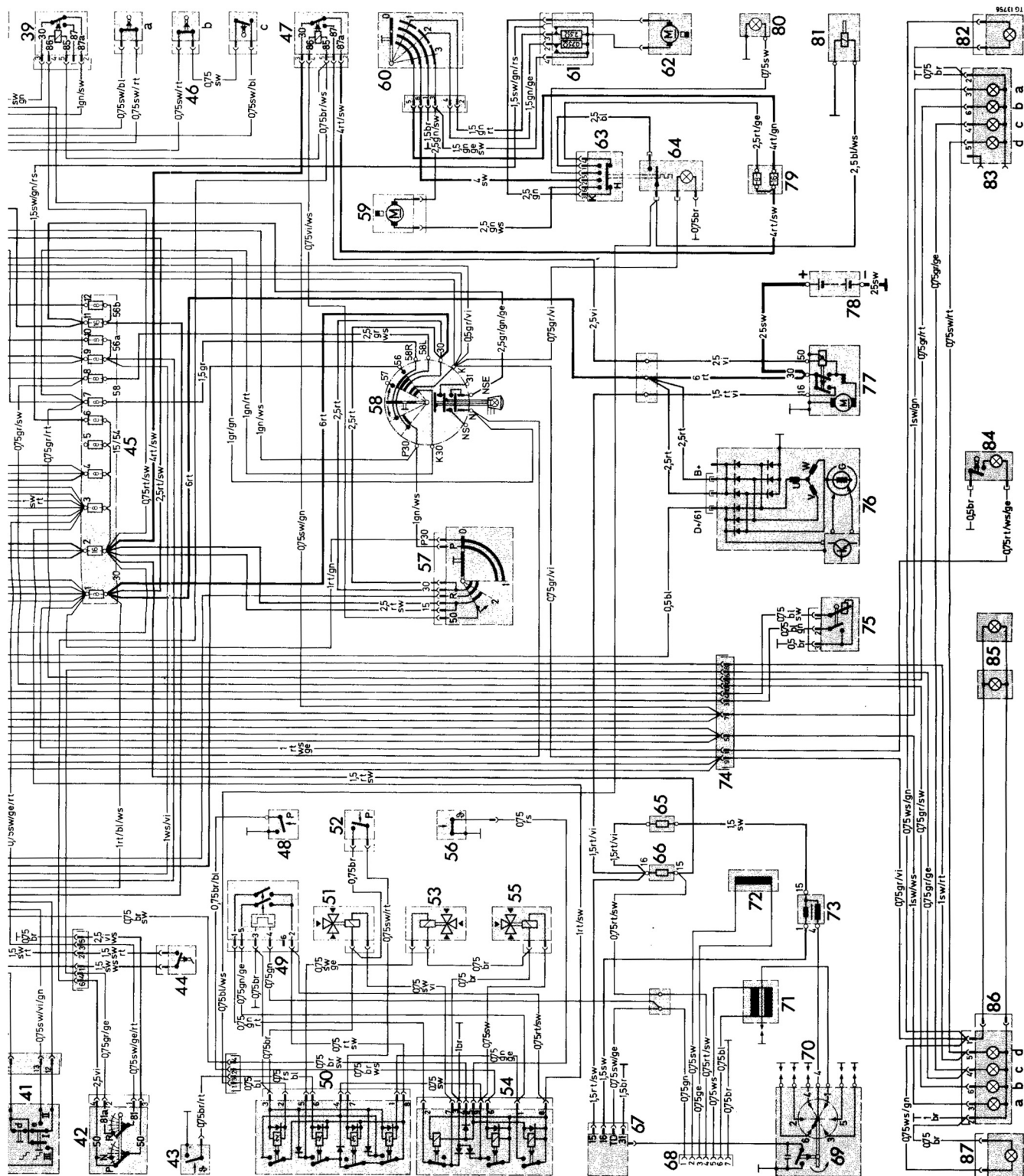
Example:

Wire designation 1.5 gr/rt
Basic color gr = gray
Identification color rt = red
Cross section of wire 1.5 = 1.5 mm²









Electrical Wiring Diagram Type 280 · 280 C (114.060/073)

1	Light unit left	17	Illumination, selector lever, automatic transmission	46	Safety belt warning system	80	Control light (air conditioner)
a	High beam	18	Temperature sensor, coolant	a	Driver's seat retractor switch	81	Solenoid clutch for refrigerant compressor
b	Low beam	19	Brake light switch	b	Passenger seat retractor switch	82	Side marker light right
c	Turn signal light	20	4-way warning flasher switch	c	Switch in front passenger seat	83	Tail light — right
d	Standing / parking light	21	Brake fluid control switch	47	Relay starter / air conditioner	a	Turn signal light
e	Fog lamp	22	Flasher transmitter	48	Oil pressure switch 1.2 atü (17 psi)	b	Tail and parking light
2	Side marker light left	23	Radio	49	Rpm switch (emission control)	c	Back-up light
3	Solenoid valve for automatic transmission	24	Wiper motor	50	Relay box, emission control (5)	d	Brake light
4	Dual-tone horns (fanfares)	25	Foot pump — windshield washer	51	Change-over valve, throttle valve lift	84	Trunk light
5	Cigar lighter with ashtray illumination	26	Idle cut-off valves, carburetor	52	0.2 atu (6") vacuum switch	85	Licence plate light
6	Instrument cluster	27	Idle cut-off valves, carburetor	53	Change-over valve, exhaust recycling	86	Tail light — left
a	Turn signal control - left	28	Electric fan relay	54	Relay box, emission control (5a)	a	Turn signal light
b	Turn signal control - right	29	Door contact switch for warning bozzer	55	Change-over valve, ignition switch-over	b	Tail and parking light
c	Fuel reserve warning light	30	Thermostatic switch dehydrator (air conditioner)	56	Temperature switch 17° C (63° F) (emission control)	c	Back-up light
d	Fuel gauge	31	Fuse box, 2 fuses (auxiliary fan)	57	Ignition starter switch	d	Brake light
e	Temperature gauge	32	Door contact switch — left front	58	Rotary light switch	87	Side marker light left
f	Electric clock	33	Reading light	59	Blower motor, auxiliary fan		
g	Instrument light	34	Door contact switch — right front	60	Blower switch		
h	Rheostat — instrument lights	35	Switch for glove compartment light	61	Pre-resistance for blower motor		
i	Charge indicator light	36	Glove compartment light	62	Blower motor (heater)		
k	High beam pilot	37	Rear dome light switch	63	Thermostat and control switch (air conditioner)		
l	Service and parking brake pilot	38	Rear dome light	64	Change-over switch, cooling/heating		
7	Switch for parking brake pilot	39	Warning system relay	65	Pre-resistance 0.6 Ω		
8	Relay, cut-out air conditioner (auxiliary fan from ignition switch-over)	40	Horn ring	66	Pre-resistance 0.4 Ω		
9	Safety belt warning light	41	Combination switch	67	Transistorized ignition switching unit		
10	Light unit right	a	Turn signal light switch	68	Diagnostic plug		
a	High beam	b	Passing light switch	69	Distributor		
b	Low beam	c	Manual dimmer switch	70	Spark plugs		
c	Turn signal light	d	Wiper switch	71	Impulse trigger sensor		
d	Standing / parking light	e	Switch for wiping speed and intermittent wiping	72	Top dead center sensor		
e	Fog lamp	42	Starter-lockout and back-up light switch	73	Ignition coil		
11	Side marker light right	43	Temperature switch 65° C (149° F), emission control	74	Plug connection for tail light unit		
12	Warning buzzer	44	Kick down switch	75	Fuel tank gauge sensor		
13	Warning buzzer contact	45	Fuses	76	Alternator with electronic regulator		
14	Temperature switch: 100° C (212° F)			77	Starter		
15	Electric fan			78	Battery		
16	Carburetor heater			79	Fuse box, 2 fuses (air conditioner)		

Wire Color Code

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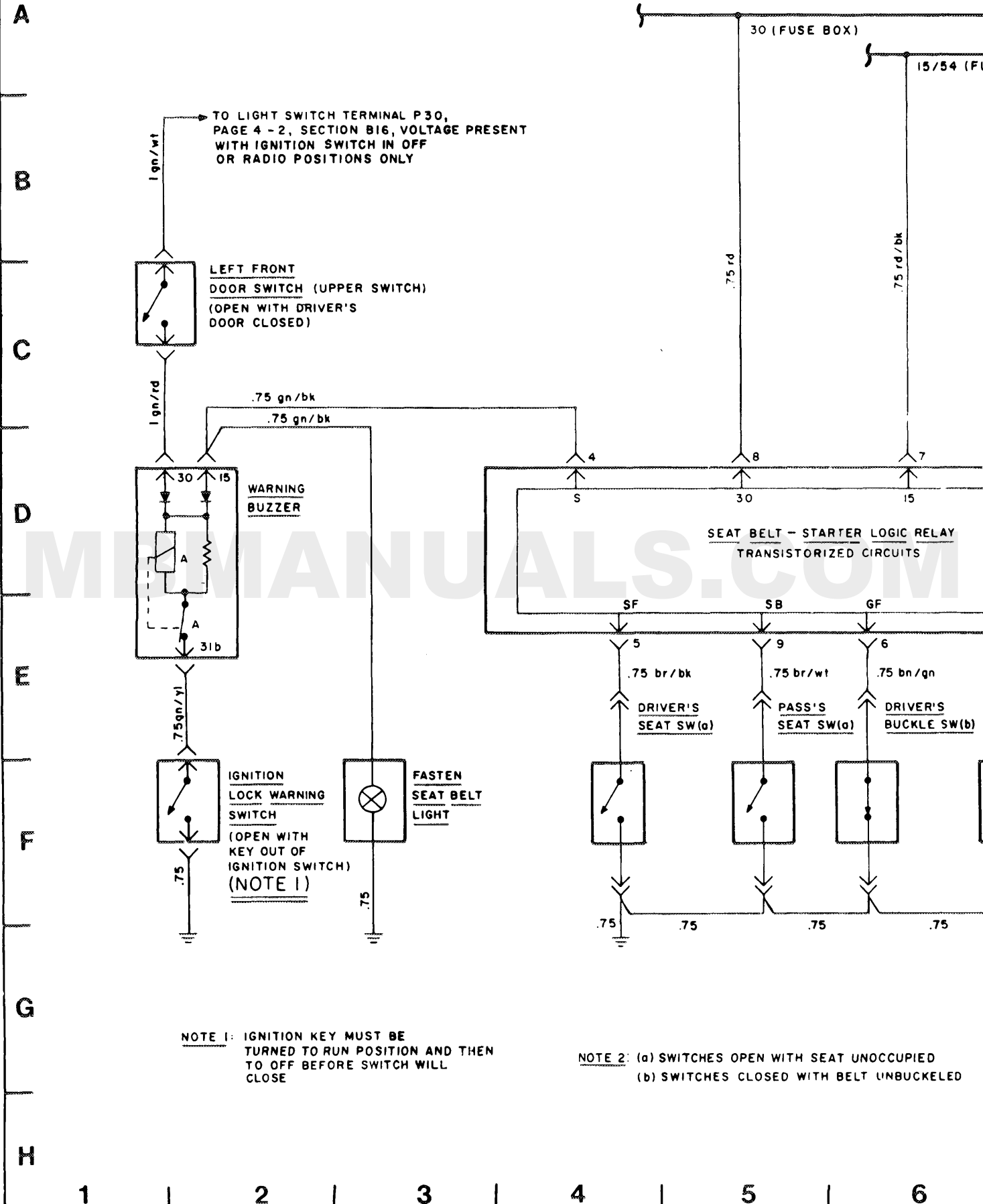
Example:

Wire designation 1.5 gr/rt
Basic color gr = gray
Identification color rt = red
Cross section of wire 1.5 = 1.5 mm²

MODEL 230

	Schematic Location	
	Page,	Coordinate
AIR CONDITIONING/HEATING	4-3	D11
AUXILIARY FAN	4-3	D18
CHARGE	4-1	D16
CHOKE HEATING	4-4	D14
CIGAR LIGHTER	4-1	D13
CLOCK	4-4	D12
FUEL GAUGE	4-4	D10
HEATED REAR WINDOW	4-4	D20
HORNS	4-3	D21
IDLE FUEL CUTOFF	4-2	D24
IGNITION SWITCH	4-1	B10
IGNITION SYSTEM	4-1	D23
KICKDOWN	4-3	D22
LIGHT CIRCUITS		
AIR CONDITIONING CONTROL	4-3	D11
ASH TRAY	4-2	F11
BACKUP	4-3	F24
BRAKE SYSTEM WARNING	4-4	E8
DOME, FRONT	4-4	D3
DOME, REAR	4-4	F4
FOG (PERIMETER)	4-2	F18
GLOVE BOX	4-4	E17
HEAD	4-2	F21
INSTRUMENT CLUSTER	4-2	F9
LOW FUEL WARNING	4-4	D10
MARKER	4-2	F14
STANDING	4-2	F16
STOP	4-4	F16
TAIL	4-2	F16
TRUNK	4-4	F6
RADIO	4-1	D11
SEAT BELT INTERLOCK	4-1	D6
SLIDING ROOF	4-4	D24
START	4-1	D20
TEMPERATURE GAUGE	4-4	D11
TURN SIGNAL AND FLASHER	4-2	D5
WINDOW	4-5	D6
WINDSHIELD WIPER/WASHER	4-3	D5

SEAT BELT INTERLOCK

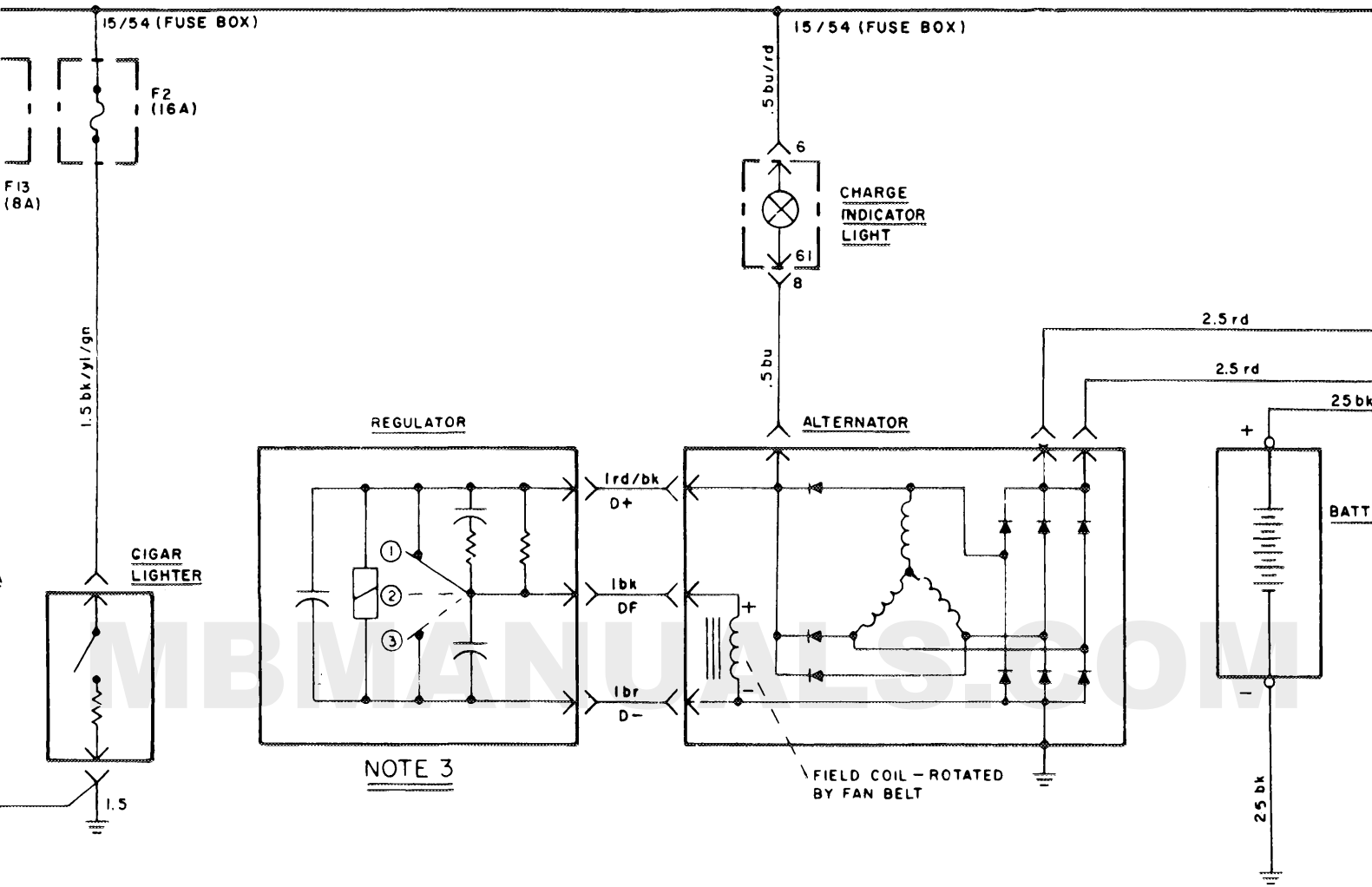


NOTE 1: IGNITION KEY MUST BE
TURNED TO RUN POSITION AND THEN
TO OFF BEFORE SWITCH WILL
CLOSE

NOTE 2: (a) SWITCHES OPEN WITH SEAT UNOCCUPIED
(b) SWITCHES CLOSED WITH BELT UNBUCKLED



30 (FUSE BOX)



NOTE 3: FOR NORMAL OPERATION REGULATOR SHOULD BE SET TO PRODUCE BATTERY BUS VOLTAGE BETWEEN 13.9V AND 14.8V @ 2200 RPM

POS 1 - ENGINE OFF/BATTERY UNDERCHARGED
 POS 2 - NORMAL OPERATION
 POS 3 - BATTERY OVERCHARGED

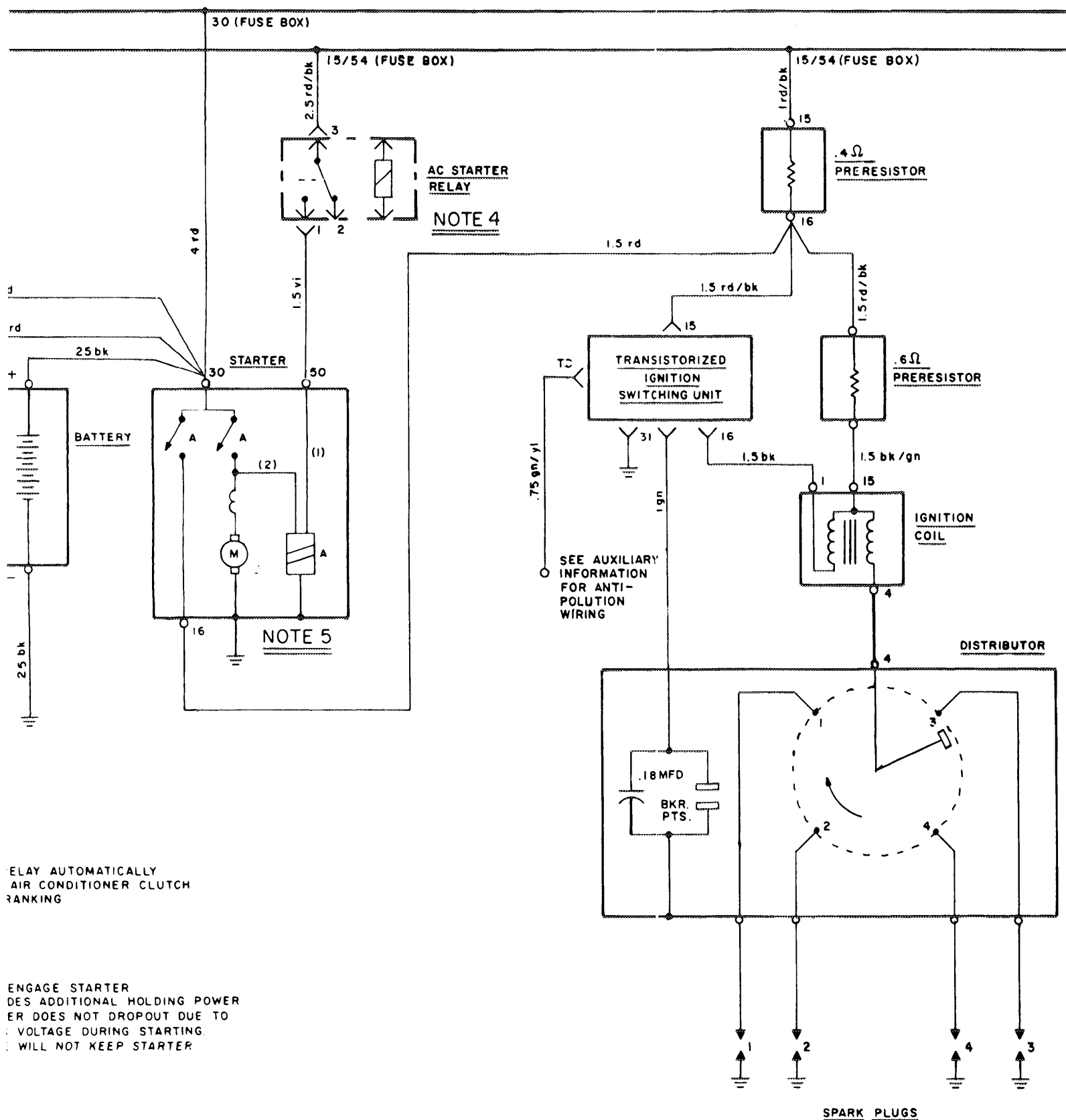
NOTE 4: THE AC/STARTER RELAY AUTOMATICALLY DISCONNECTS THE AIR CONDITION DURING ENGINE CRANKING

NOTE 5: WINDING (1) WILL ENGAGE STARTER WINDING (2) PROVIDES ADDITIONAL TO ASSURE STARTER DOES NOT LOW BATTERY BUS VOLTAGE DURING WINDING (2) ALONE WILL NOT KE ENGAGED

INDICATES
WAYS GROUNDED.

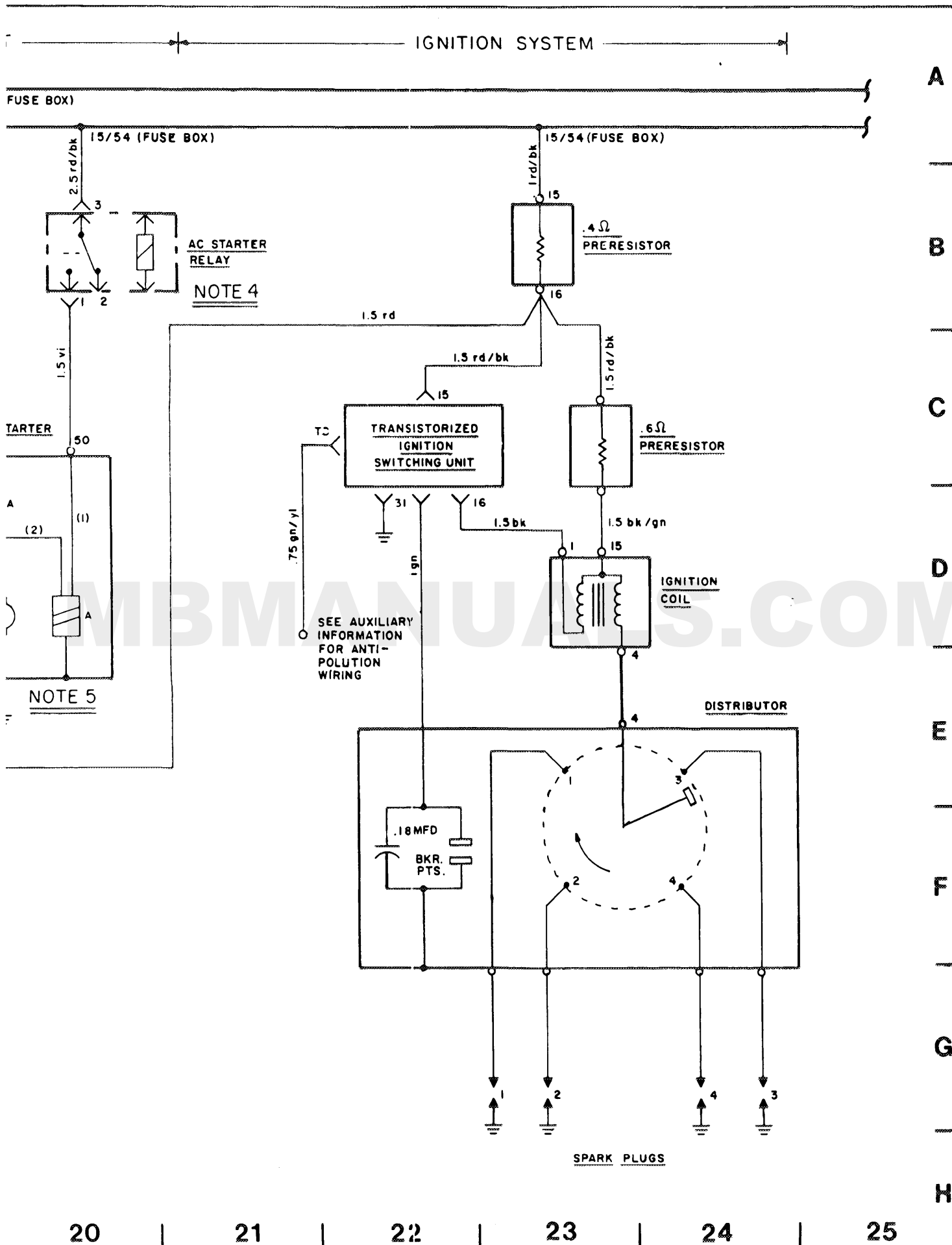
START

IGNITION SYSTEM



RELAY AUTOMATICALLY
AIR CONDITIONER CLUTCH
RANKING

ENGAGE STARTER
DES ADDITIONAL HOLDING POWER
ER DOES NOT DROPOUT DUE TO
VOLTAGE DURING STARTING.
WILL NOT KEEP STARTER



TURN SIGNAL AND FLASHER

A

B

C

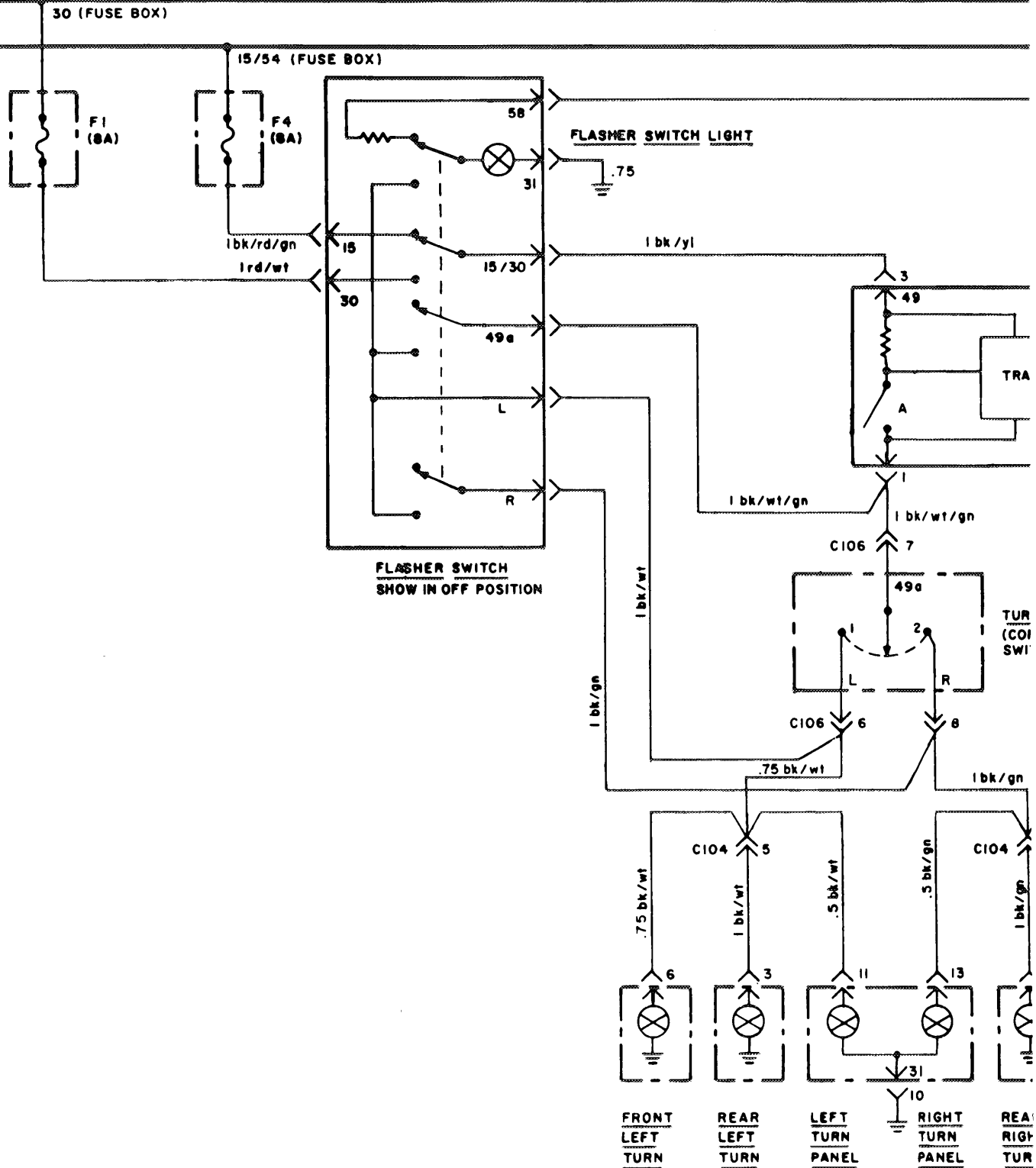
D

E

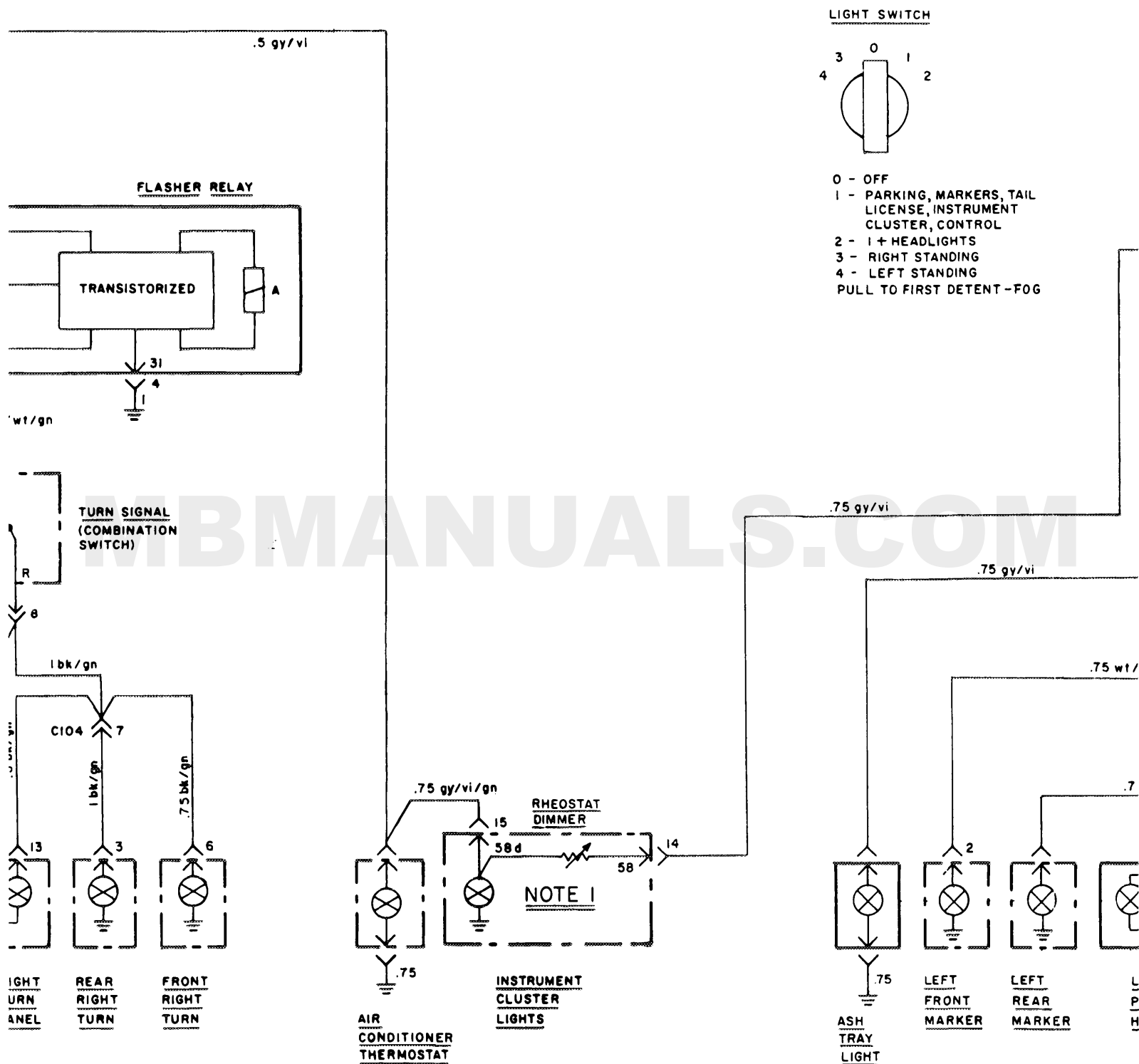
F

G

H

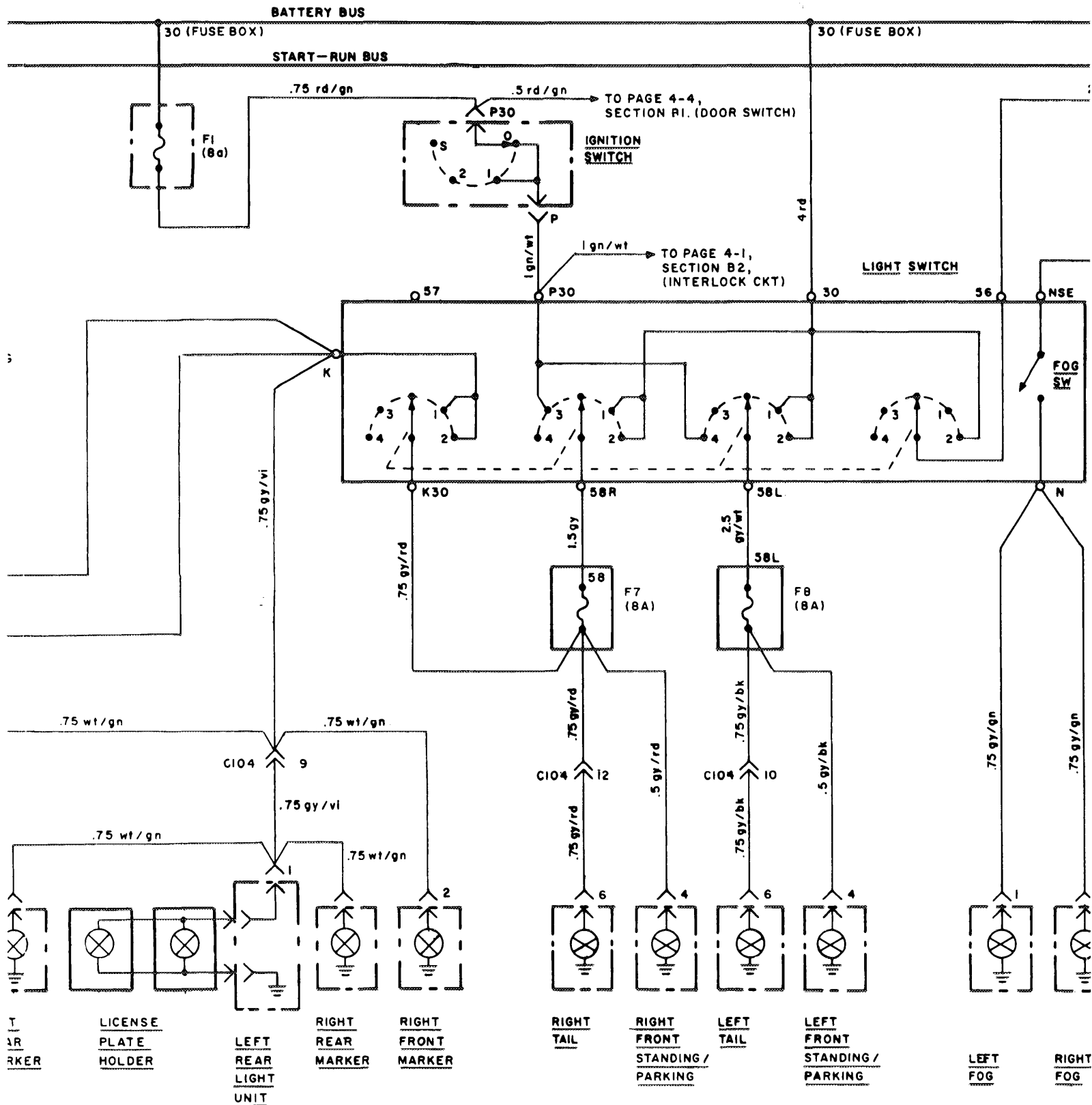


AC /INST. CLUSTER/ASH TRAY LIGHTS

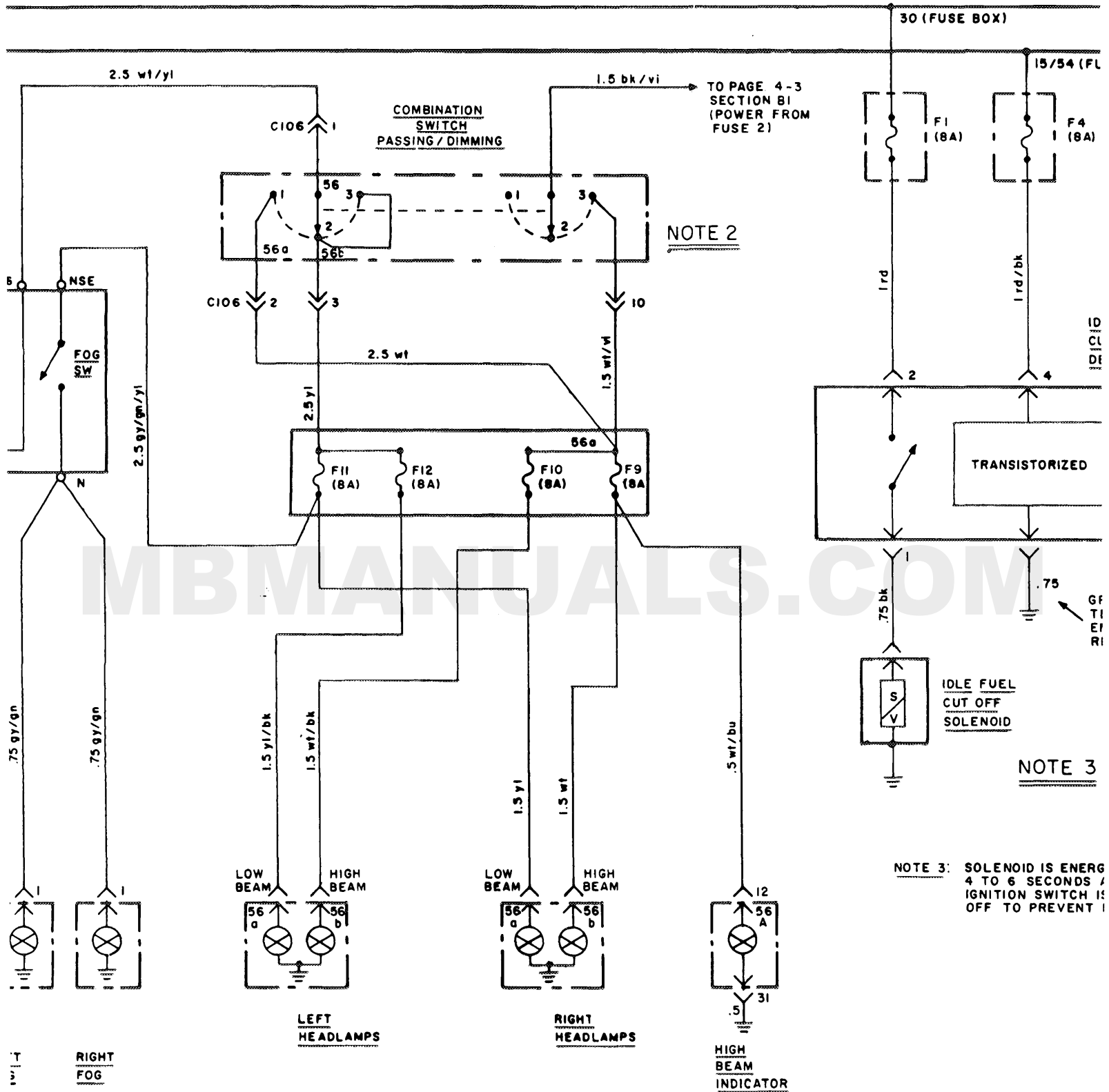


NOTE 1: THERE ARE 5 INSTRUMENT
CLUSTER BULBS IN PARALLEL

LIGHT SWITCH

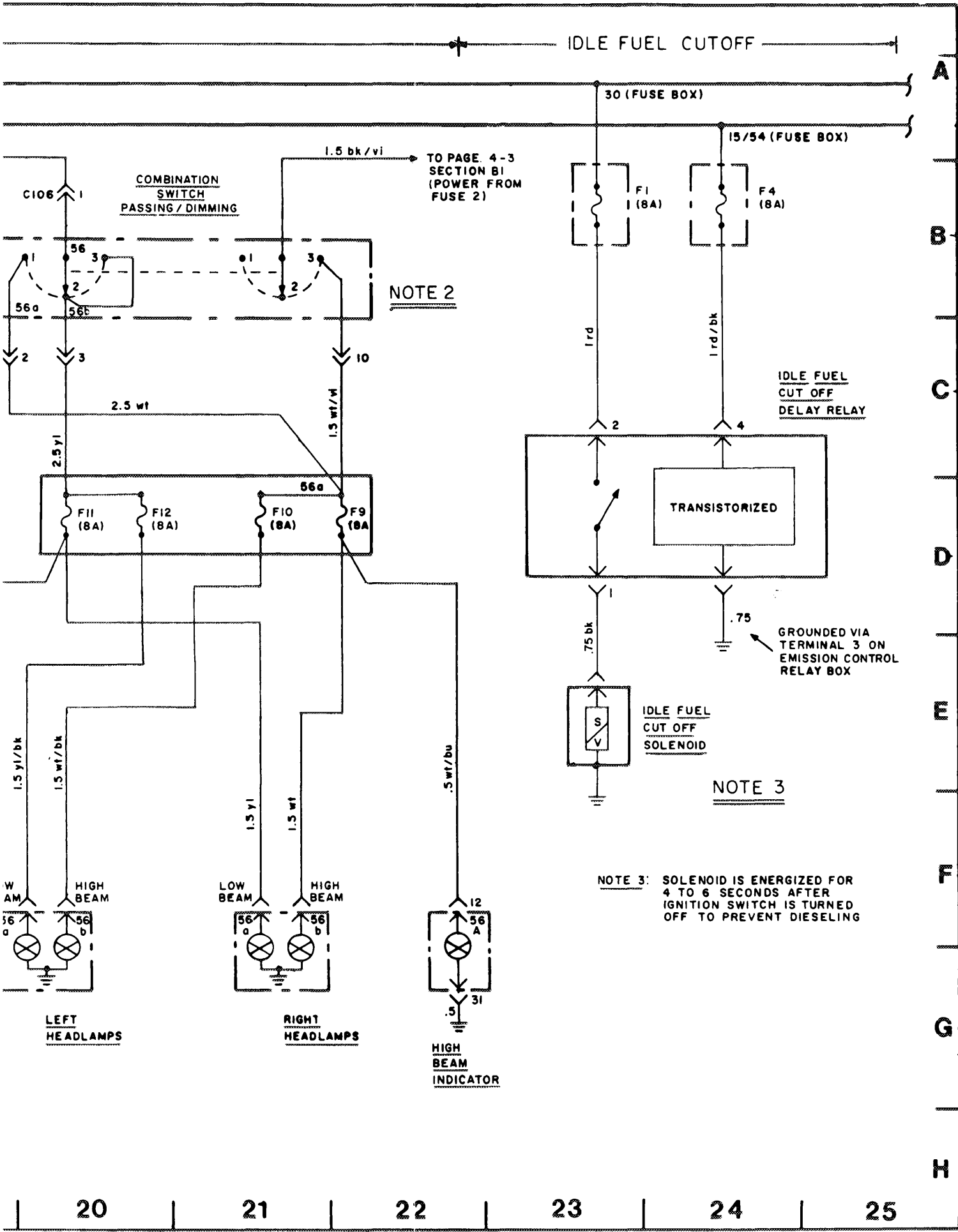


NOTE 2: POSITION 1 -
POSITION 2 -
POSITION 3 -

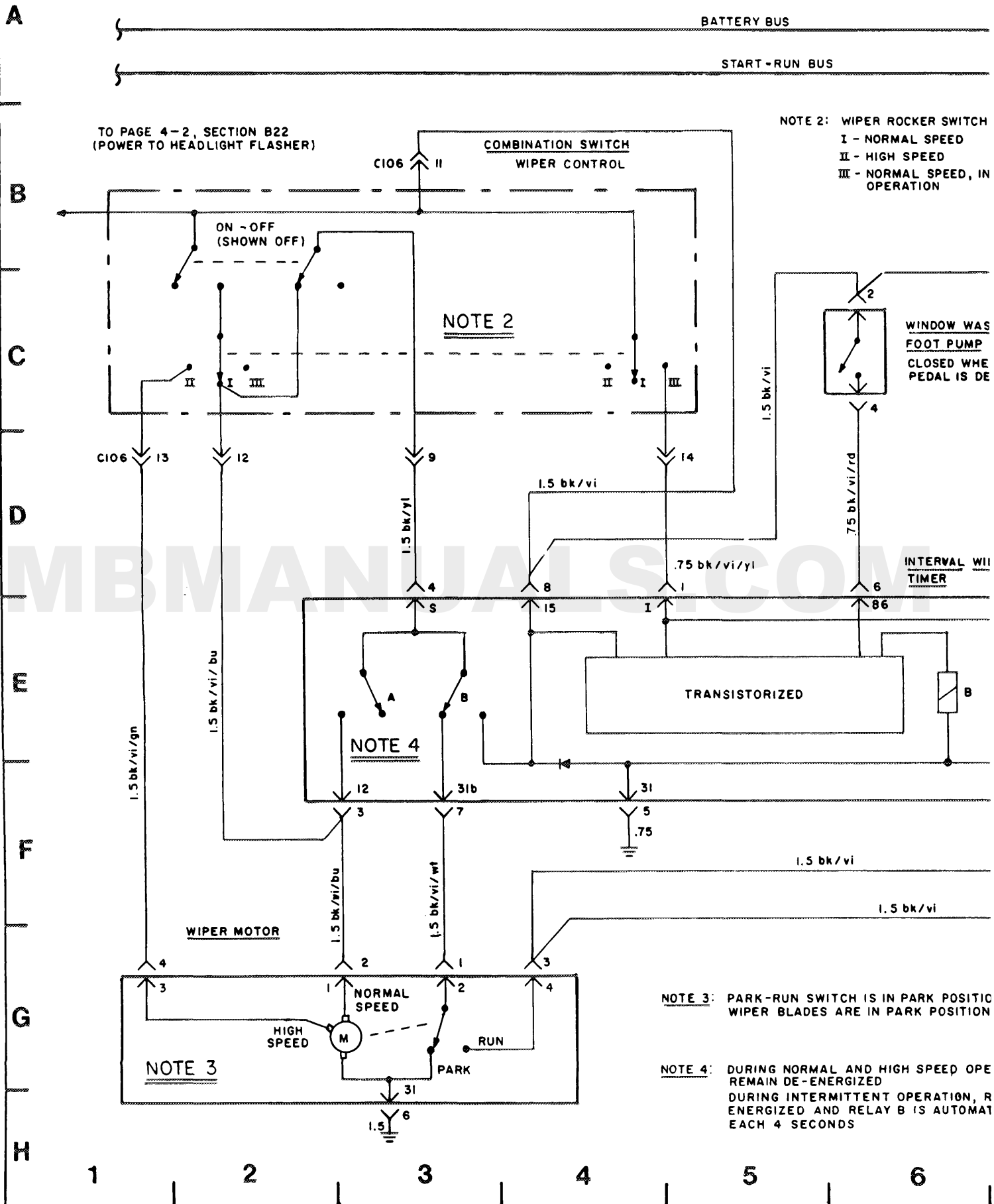


NOTE 3: SOLENOID IS ENERGIZED FOR 4 TO 6 SECONDS AFTER IGNITION SWITCH IS TURNED OFF TO PREVENT FUEL FROM ENTERING THE CYLINDERS.

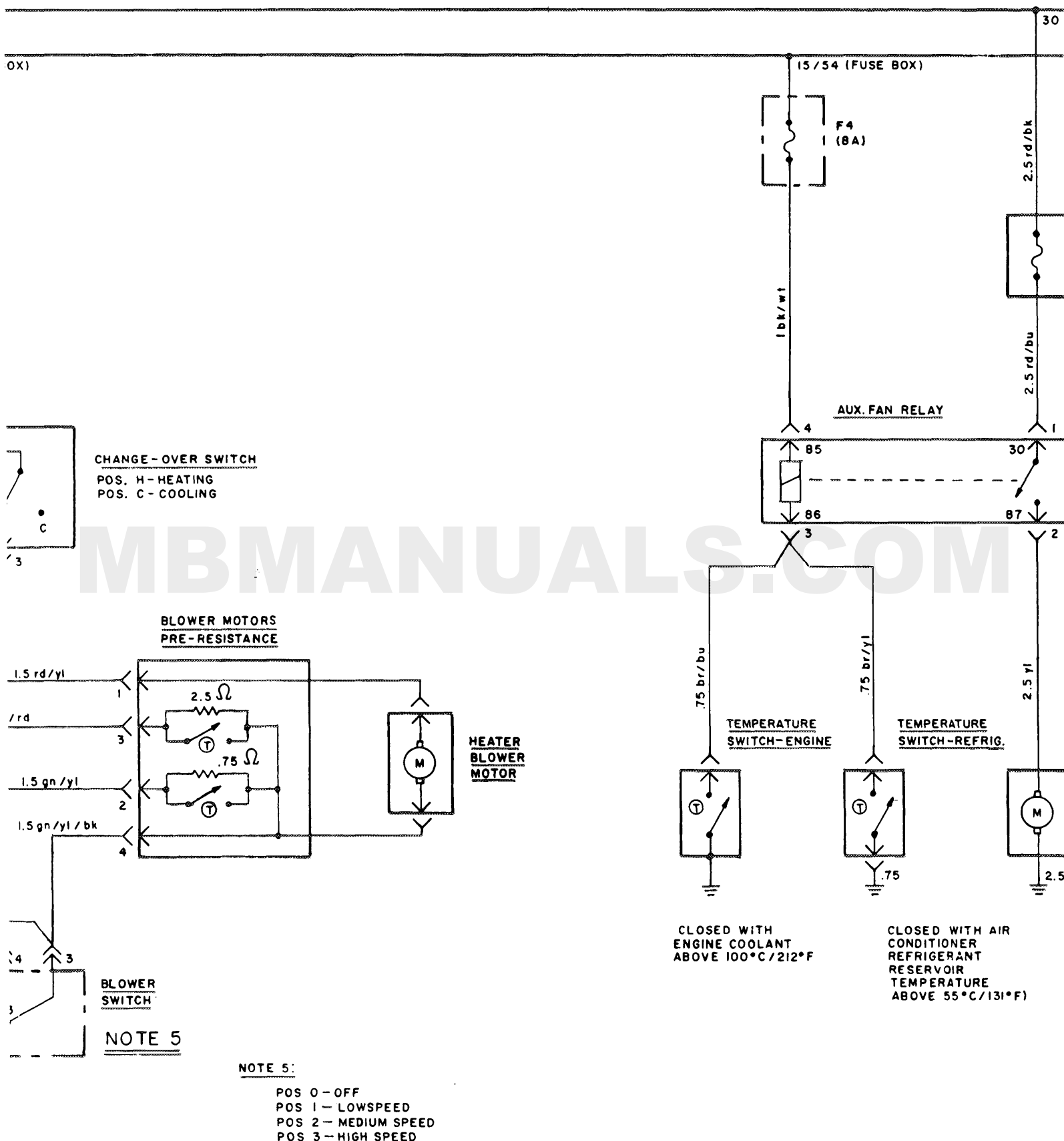
POSITION 1 - HIGH BEAM
POSITION 2 - LOW BEAM
POSITION 3 - HIGH BEAM FLASH



WINDSHIELD WIPER / WASHER



OX)



13

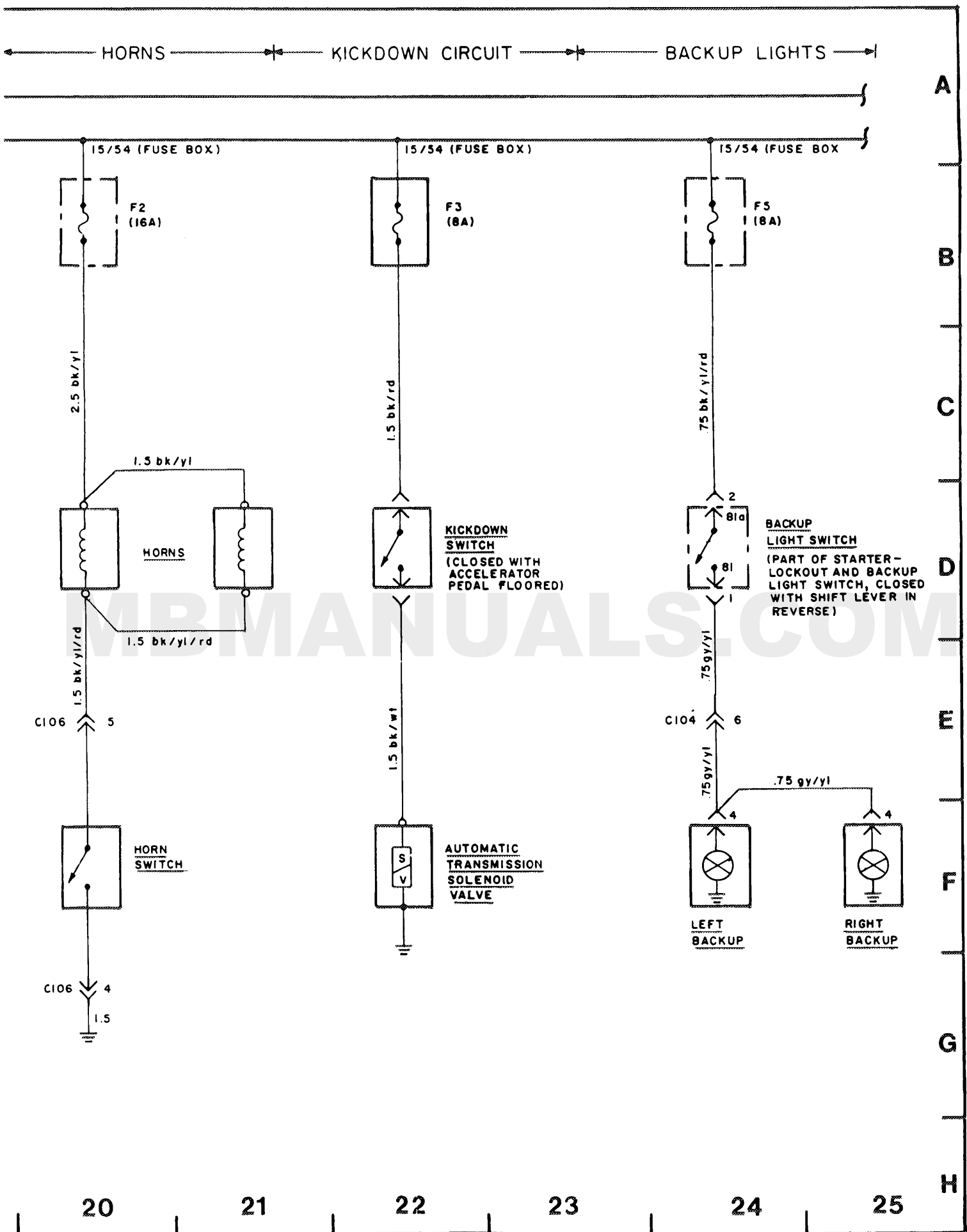
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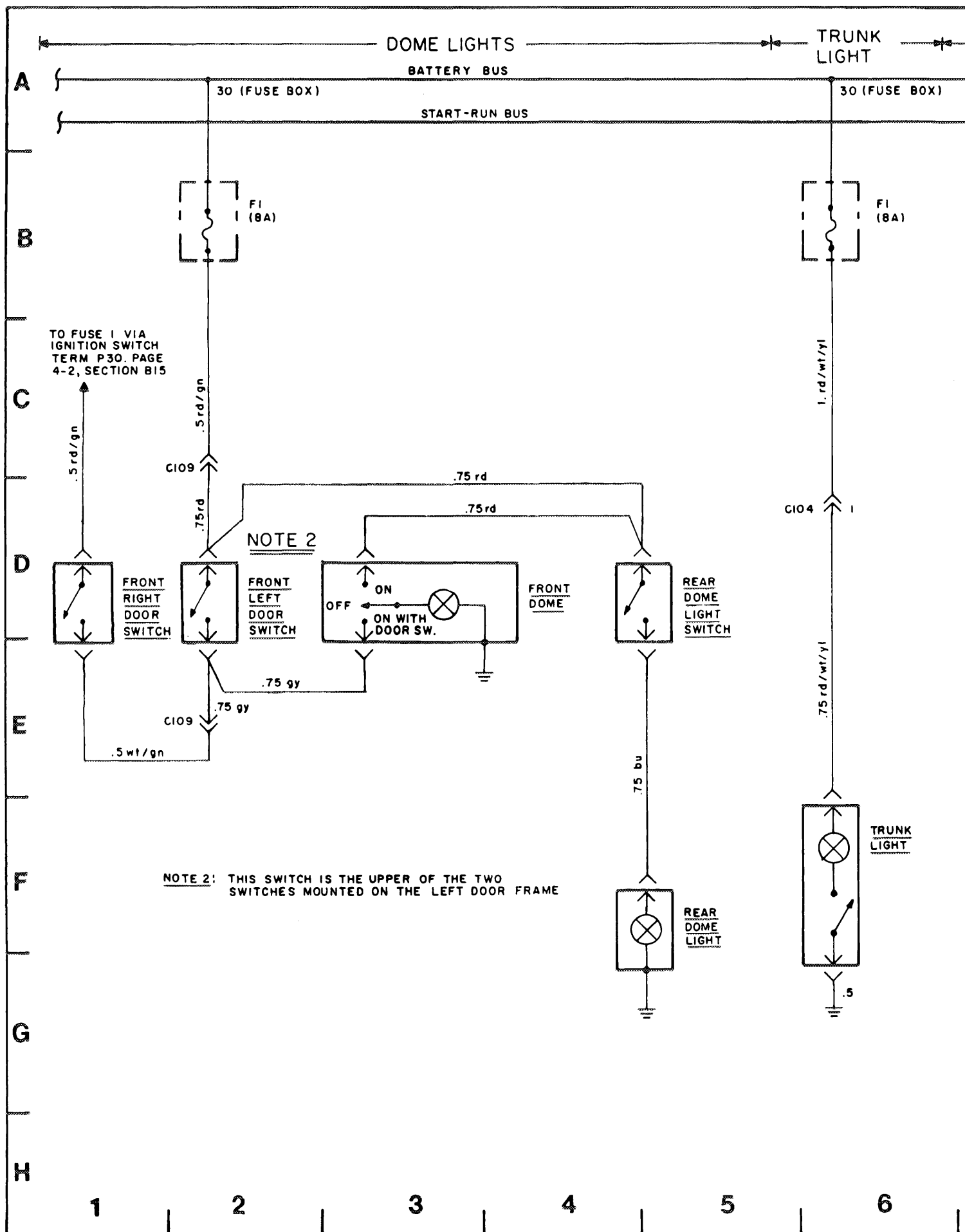
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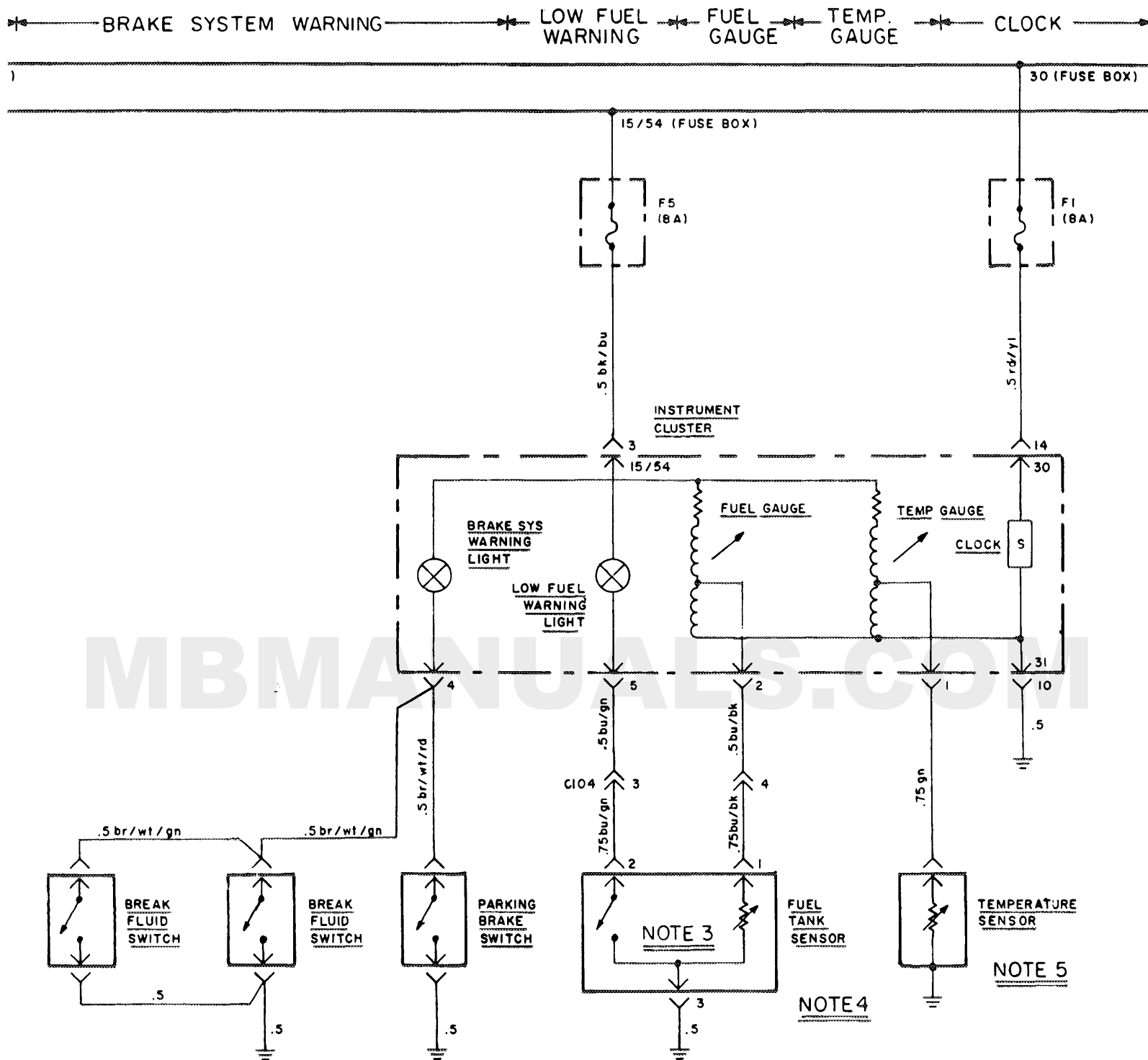
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17

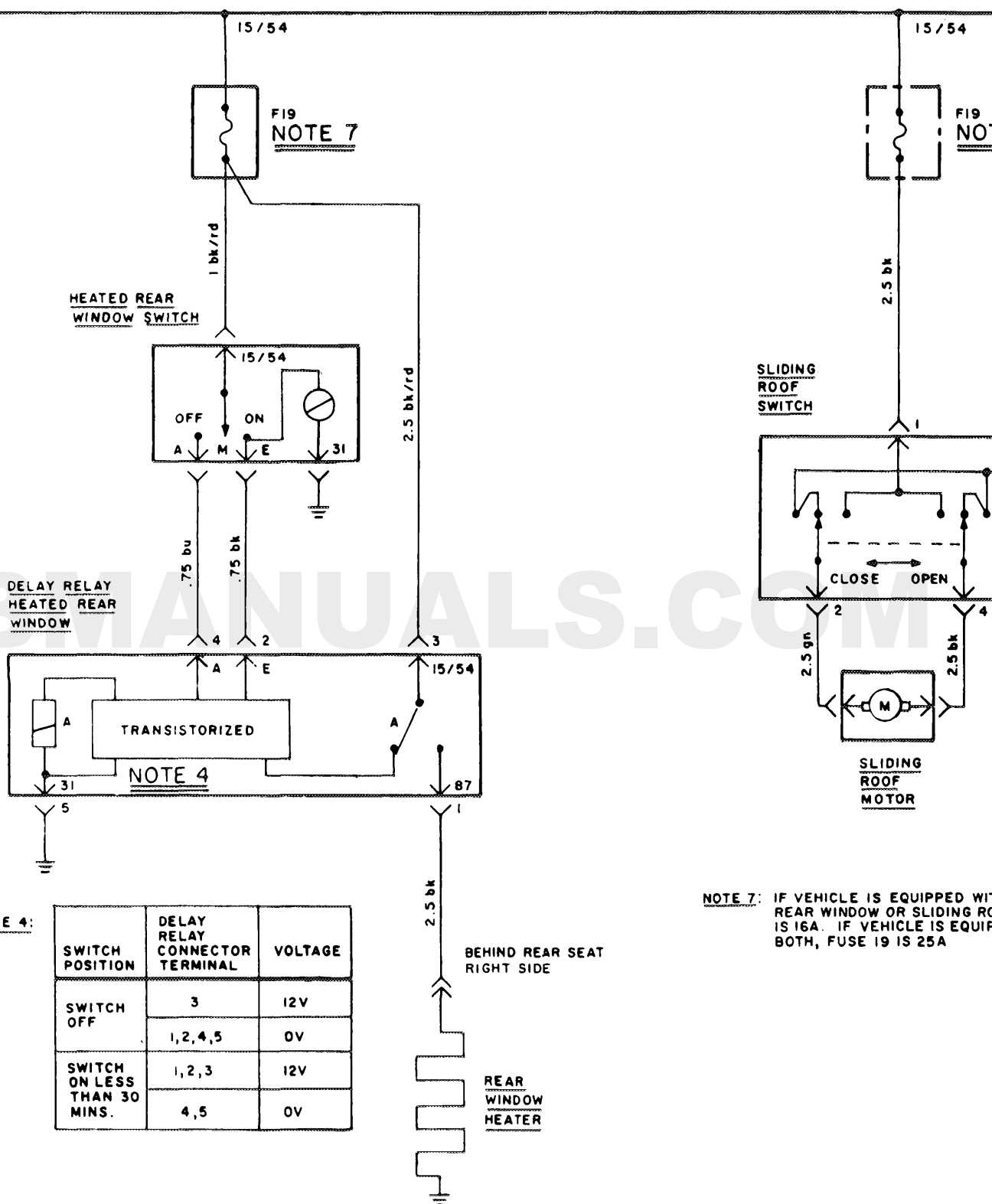
18







RESISTANCE - 7Ω



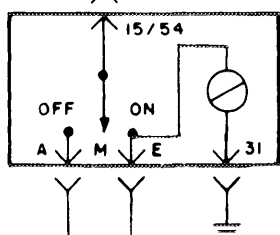
HEATED REAR WINDOW

SLIDING ROOF

15/54

F19
NOTE 7

1 bk/rd

HEATED REAR
WINDOW SWITCH

2.5 bk/rd

.75 bu

.75 bk

4

2

3

A

E

15/54

TRANSISTORIZED

NOTE 4

87

1

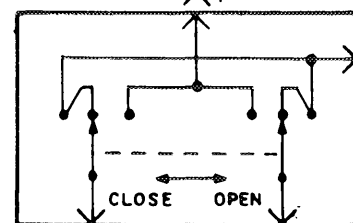
2.5 bk

BEHIND REAR SEAT
RIGHT SIDEREAR
WINDOW
HEATER

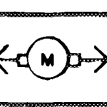
15/54

F19
NOTE 7

2.5 bk

SLIDING
ROOF
SWITCH

2.5

SLIDING
ROOF
MOTOR

NOTE 7: IF VEHICLE IS EQUIPPED WITH HEATED REAR WINDOW OR SLIDING ROOF, FUSE 19 IS 16A. IF VEHICLE IS EQUIPPED WITH BOTH, FUSE 19 IS 25A

SWITCH POSITION	DELAY RELAY CONNECTOR TERMINAL	VOLTAGE
SWITCH OFF	3	12V
	1,2,4,5	0V
SWITCH ON LESS THAN 30 MINS.	1,2,3	12V
	4,5	0V

20

21

22

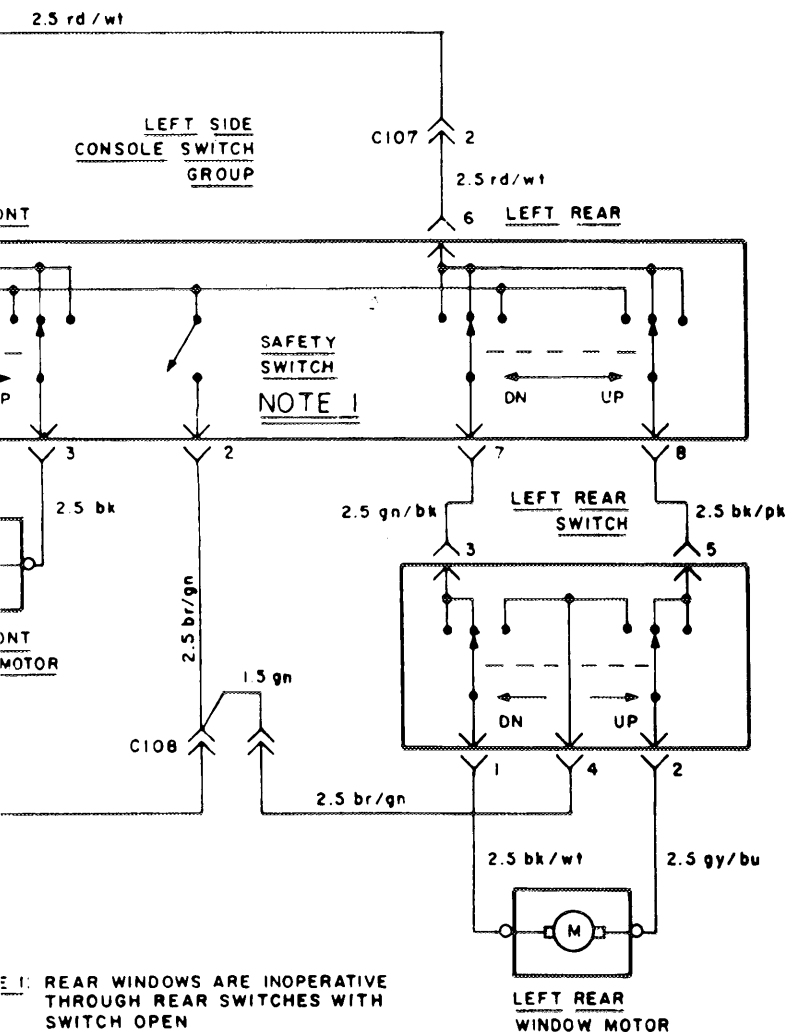
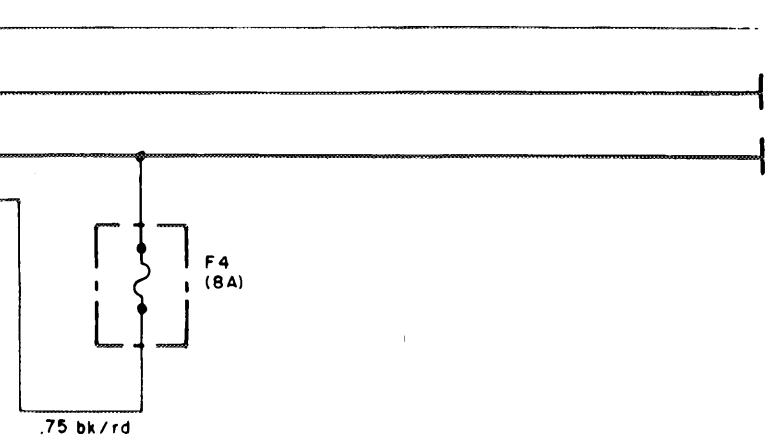
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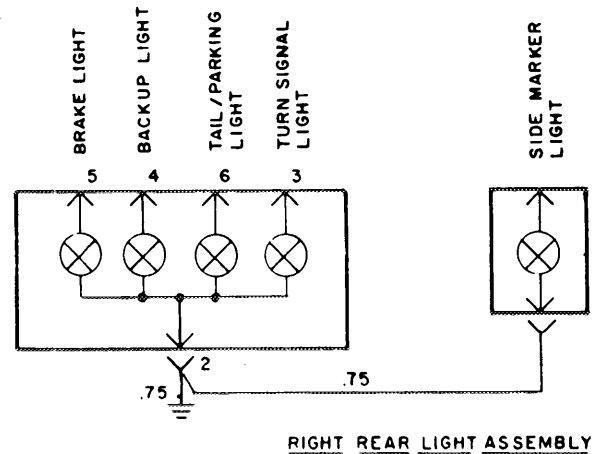
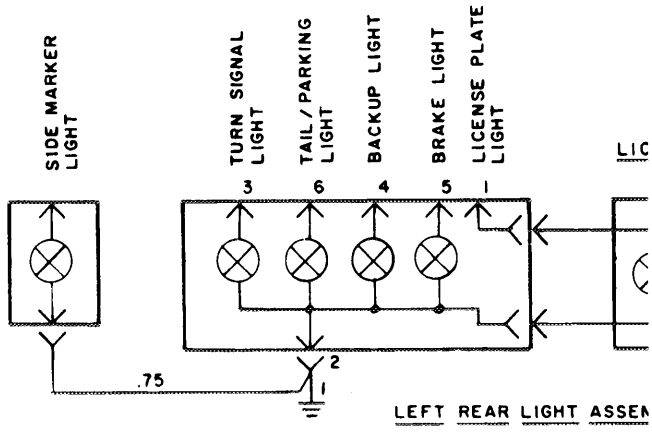
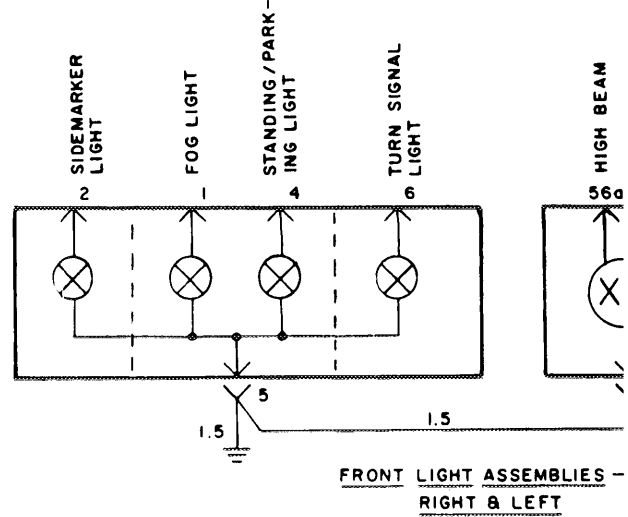
25

A
B
C
D
E
F
G
H

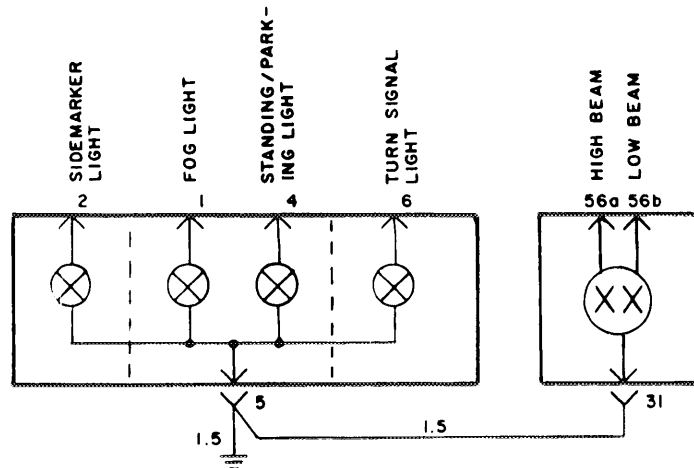




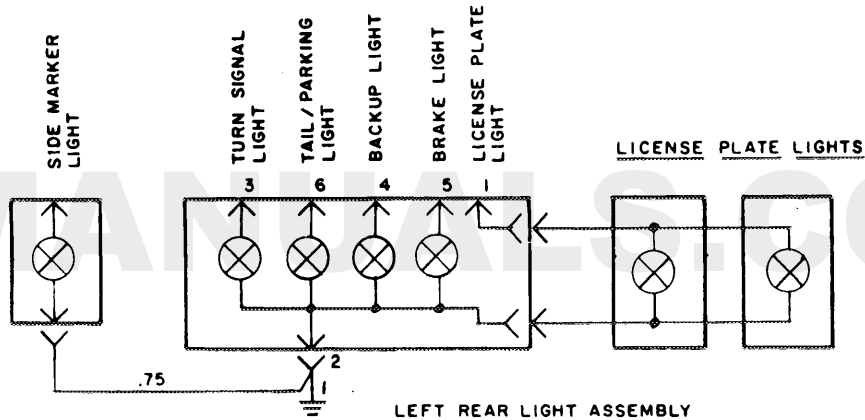
SPECIAL GROUNDING CIRCUITS



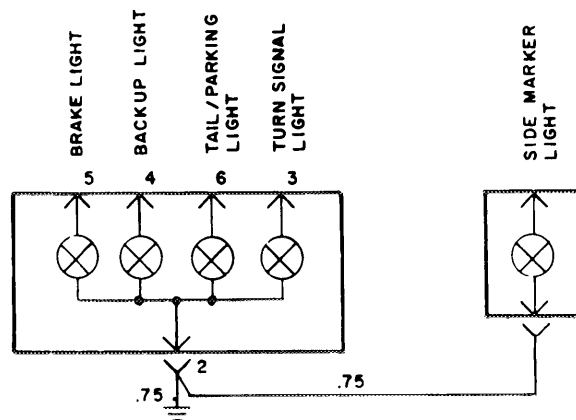
SPECIAL GROUNDING CIRCUITS



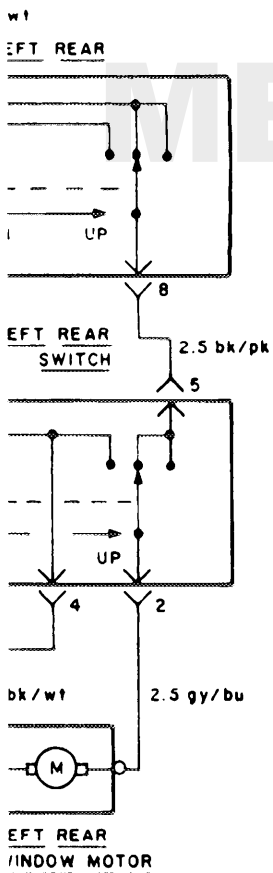
FRONT LIGHT ASSEMBLIES -
RIGHT & LEFT



LEFT REAR LIGHT ASSEMBLY



RIGHT REAR LIGHT ASSEMBLY



9

10

11

12

13

14

COMPONENT	COMPONENT LOCATION ON VEHICLE	COMPONENT LOCATION PHOTOGRAPH	COMPONENT TERMINAL PHOTOGRAPH
AIR CONDITIONING/HEATING			
A/C blower motor	center of console	3-1	
A/C clutch	front of compressor		
A/C control light	console	3-2	
A/C starter relay, key 4	rt. firewall under fuse bracket		3-37
A/C thermostat	console	3-2	
Blower switch	console	3-2	
Change-over switch	console, left side	3-27	
Fuse 6	fuse box	3-4	3-48
Fuse 21 (A/C blower)	right firewall		3-40
Fuse 22 (A/C clutch)	right firewall		
Heater blower motor	behind A/C blower		
Heater blower motor pre-resistor	left firewall	3-4	
C113	mounted to heater control lever plate	3-6	3-32
AUXILIARY FAN			
Auxiliary fan	front of radiator	3-7	
Aux. fan relay, key 6	below radio fuse		
Fuse 4	fuse box	3-4	3-47
Fuse 20 (aux. fan)	left fender		3-48
Temp. sw.—engine	thermostat housing		
Temp. sw.—refrigerant	right firewall	3-9	
CHARGE			
Alternator	below A/C compressor		
Charge indicator light	inst. cluster	3-10	
Regulator	right front fender		
CHOKE HEATING			
Choke heating resistor	carburetor	3-25	
Fuse 4	fuse box	3-4	3-48
CIGAR LIGHTER			
Cigar lighter	console	3-2	
Fuse 2	fuse box	3-4	3-48
CLOCK			
Clock	inst. cluster	3-10	
Fuse 1	fuse box	3-4	3-48

COMPONENT	COMPONENT LOCATION ON VEHICLE	COMPONENT LOCATION PHOTOGRAPH	COMPONENT TERMINAL PHOTOGRAPH
FUEL GAUGE			
Fuel gauge	inst. cluster	3-10	
Fuel tank sensor	below trunk floor	3-14	
Fuse 5	fuse box	3-4	3-48
C 104	under dash—drivers side	3-15	
HEATED REAR WINDOW			
Time delay relay	under dash—drivers side	3-15	3-44
Fuse 19 (window)	left fender		
Heater	rear window		
Switch	console		
C 112	behind rear seat— right side	3-2 3-16	
HORNS			
Horn switch			
Horns			
Fuse 2	fuse box	3-4	3-48
C 106	under dash—drivers side	3-15	3-35
IDLE FUEL CUTOFF			
Time delay relay	left front fender	3-26	
Fuse 1	fuse box	3-4	3-48
Fuse 4	fuse box	3-4	3-48
Solenoid	carburetor	3-25	
IGNITION SWITCH			
A/C starter relay, key 4	rt. firewall—under fuseholder		3-37
Seat belt-starter logic	under dash—drivers side	3-15	3-39
Starter lockout switch	left side transmission		
Switch	dash		
IGNITION SYSTEM			
Coil	front left fender	3-26	
Distributor	front left engine		
.4 ohm preresistor	front left fender	3-26	
.6 ohm preresistor	front left fender	3-26	
Transistorized ignition switching unit	left front fender		

COMPONENT	COMPONENT LOCATION ON VEHICLE	COMPONENT LOCATION PHOTOGRAPH	COMPONENT TERMINAL PHOTOGRAPH
KICKDOWN			
Fuse 3	fuse box	3-4	3-48
Solenoid	right side transmission		
Switch	below accelerator pedal	3-19	
LIGHT CIRCUITS			
A/C CONTROL			
Change-over switch	console	3-27	
Fuse 6	fuse box	3-4	3-48
Light, A.C. contact	console	3-2	
Light, A.C. thermostat	console		
ASH TRAY			
Fuse 7	fuse box	3-4	3-48
Light switch	dash		
BACKUP			
Fuse 5	fuse box	3-4	3-48
Lights	rear light assemblies		
Switch	left side transmission		
C 104	under dash—drivers side	3-15	
BRAKE SYSTEM WARNING			
Fluid switches	fluid reservoir	3-4	
Fuse 5	fuse box	3-4	3-48
Parking switch	top, parking brake		
Reservoir & parking brake light	inst. cluster	3-10	
DOME (FRONT)			
Front left door switch	door post		
Front right door switch	door post		
Fuse 1	fuse box	3-4	3-48
C 109	console		
DOME (REAR)			
Fuse 1	fuse box	3-4	3-48
Switch	dash	3-20	

COMPONENT	COMPONENT LOCATION ON VEHICLE	COMPONENT LOCATION PHOTOGRAPH	COMPONENT TERMINAL PHOTOGRAPH
FOG (PERIMETER)			
Fuse 11	fuse box	3-4	3-48
Light switch	dash	3-20	3-43
Pass/dim switch	steering column	3-20	
C 106	under dash—drivers side	3-15	3-35
GLOVE BOX			
Fuse 5	fuse box	3-4	3-48
Switch	glove box		
HEAD			
Fuse 9	fuse box	3-4	3-48
Fuse 10	fuse box	3-4	3-48
Fuse 11	fuse box	3-4	3-48
Fuse 12	fuse box	3-4	3-48
High beam indicator	inst. cluster	3-10	
Light switch	dash	3-20	3-43
Pass/dim switch	steering column	3-20	
C 106	under dash—drivers side	3-16	3-35
INSTRUMENT CLUSTER			
Fuse 7	fuse box	3-4	3-48
light switch	dash	3-20	3-43
Rheostat	inst. cluster	3-10	
LOW FUEL WARNING			
Fuse 5	fuse box	3-4	3-48
Sender unit	below trunk floor	3-14	
C 104	under dash—drivers side	3-15	
Light	inst. cluster	3-10	
MARKER			
Fuse 7	fuse box	3-4	3-48
Light switch	dash	3-20	3-43
C 104	under dash—drivers side	3-15	
STANDING			
Fuse 1	fuse box	3-4	3-48
Fuse 7	fuse box	3-4	3-48
Fuse 8	fuse box	3-4	3-48
Ignition switch	dash		
Light switch	dash	3-20	3-43

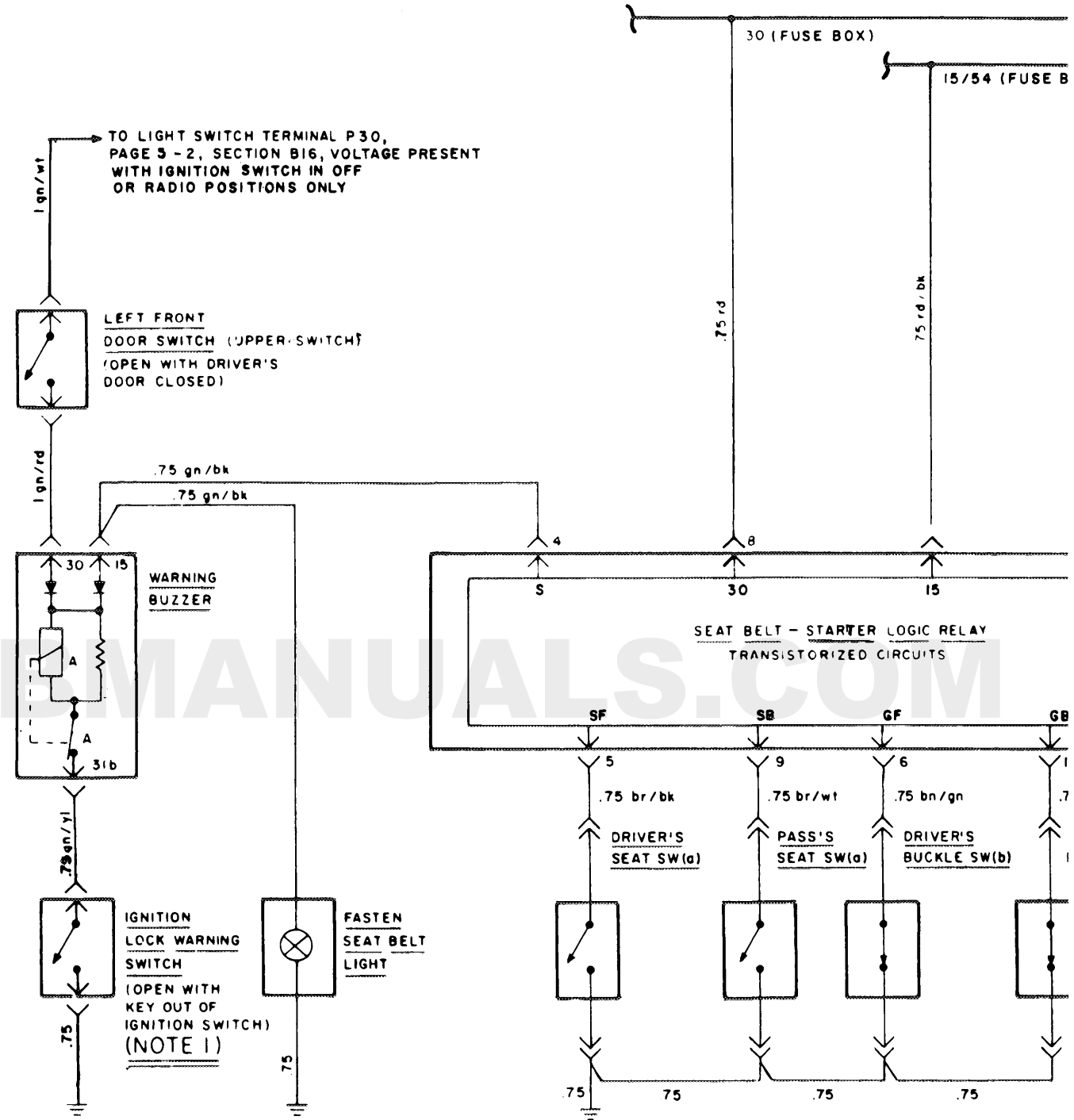
COMPONENT	COMPONENT LOCATION ON VEHICLE	COMPONENT LOCATION PHOTOGRAPH	COMPONENT TERMINAL PHOTOGRAPH
STOP			
Fuse 5	fuse box	3-4	3-48
Switch	above brake pedal		
C 104	under dash—drivers side	3-15	
TAIL			
Fuse 1	fuse box	3-4	3-48
Fuse 7	fuse box	3-4	3-48
Fuse 8	fuse box	3-4	3-48
Ignition Switch	dash		
Light Switch	dash	3-20	3-43
C 104	under dash—drivers side	3-15	
TRUNK			
Fuse 1	fuse box	3-4	3-48
C 104	under dash—drivers side	3-15	
Switch	on trunk lid		
RADIO			
Antenna			
Fuse 13 (power antenna)	left fender		
Ignition switch	dash		
Radio	console		
Fuse 14 (radio)	left fender		
SEAT BELT INTERLOCK			
A/C starter relay, key 4	rt. firewall—under fuse bracket		3-37
Door switch	left front door—lower		
Driver's buckle switch	buckle		
Driver's seat switch	seat		
Fasten seat belt light	dash	3-2	
Ignition switch	dash		
Ignition warning switch	ignition switch		3-42
Logic relay	under dash—drivers side	3-15	3-39
Passenger buckle switch	buckle		
Passenger seat switch	seat		
Starter lockout switch	left side transmissions		
Warning buzzer	under dash—drivers side		
SLIDING ROOF			
Fuse 19			
Motor	behind spare tire		
Switch	console	3-2	

COMPONENT	COMPONENT LOCATION ON VEHICLE	COMPONENT LOCATION PHOTOGRAPH	COMPONENT TERMINAL PHOTOGRAPH
START			
A/C starter relay, key 4	rt. firewall—under fuse bracket		3-37
Battery			
Motor			
TEMPERATURE GAUGE			
Fuse 5	fuse box	3-4	3-48
Sensor	engine—left side	3-21	
TURN SIGNAL AND FLASHER			
Flasher relay	under dash—drivers side	3-15	
Hazzard switch	console	3-2	3-46
Fuse 1	fuse box	3-4	3-48
Fuse 4	fuse box	3-4	3-48
Turn signal switch	steering column	3-20	
C 104	under dash—drivers side	3-15	
C 106	under dash—drivers side	3-15	
WINDOWS			
Fuse F4	fuse box	3-4	3-48
Fuse F17 (FL/RR)	firewall—right side		
Fuse F18 (FR/RL)	firewall—right side		
Left front motor	door		
Left rear motor	door		
Left rear switch	side panel		
Left side switch group	console		3-38
Relay, key 10	rt. firewall under fuse bracket		3-47
Right front motor	door		
Right rear motor	door		
Right rear switch	side panel		
Right side switch group	console		3-38
C 107	console		
C 108	console		
WINDSHIELD WIPER/WASHER			
Combination switch	steering column	3-20	
Foot pump switch	left floor	3-5	
Fuse 2	fuse box	3-4	3-48
Interval wipe timer	under dash—driver side	3-15	3-40
Motor	firewall—left side	3-4	
C 106	under dash—drivers side	3-15	3-35

MODEL 240D

	Schematic Location	
	Page,	Coordinate
AIR CONDITIONING/HEATING	5-3	D11
AUXILIARY FAN	5-3	D18
CHARGE	5-1	D18
CIGAR LIGHTER	5-1	E16
CLOCK	5-4	D20
FUEL GAUGE	5-4	D10
GLOW PLUGS	5-1	G12
HEATED REAR WINDOW	5-4	D21
HORNS	5-3	D20
KICKDOWN	5-3	D22
LIGHT CIRCUITS		
AIR CONDITIONING CONTROL	5-3	E11
ASH TRAY	5-2	G11
BACKUP	5-3	D24
BRAKE SYSTEM WARNING	5-4	E8
DOME, FRONT	5-4	D3
DOME, REAR	5-4	D5
FOG (PERIMETER)	5-2	G18
GLOVE BOX	5-4	D17
HEAD	5-2	G21
INSTRUMENT CLUSTER	5-2	G9
LOW FUEL WARNING	5-4	C10
MARKER	5-2	F13
STANDING	5-2	G16
STOP	5-4	E16
TAIL	5-2	G16
TRUNK	5-4	F6
RADIO	5-1	E13
SEAT BELT INTERLOCK	5-1	D6
SLIDING ROOF	5-4	D24
START	5-1	D22
TEMPERATURE GAUGE	5-4	D11
TURN SIGNAL AND FLASHER	5-2	D6
WINDOWS	5-5	D5
WINDSHIELD WIPER/WASHER	5-3	D5

SEAT BELT INTERLOCK



NOTE 1 IGNITION KEY MUST BE
TURNED TO RUN POSITION AND THEN
TO OFF BEFORE SWITCH WILL
CLOSE

NOTE 2: (a) SWITCHES OPEN WITH SEAT UNOCCUPIED
(b) SWITCHES CLOSED WITH BELT UNBUCKLED

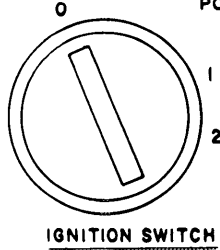
GLOW PLUGS

BATTERY BUS

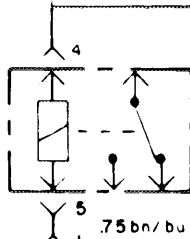
START - RUN BUS

FUSE BOX)

POS 0 - OFF
POS 1 - RADIO
POS 2 - DRIVE



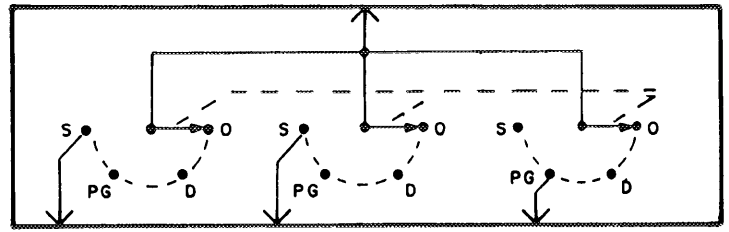
AC STARTER
RELAY-KEY 4



75 vi/wt

NOTE 6

GLOW STARTER
SWITCH



NOTE 6: THE GLOW STARTER
SWITCH IS A
PUSH-PULL SWITCH AND
HAS 4 POSITIONS

- O - OFF. KNOB ALL THE WAY IN.
MECHANICALLY MOVES FUEL
INJECTOR TO CUTOFF OR NO
FUEL POSITION
- D - DRIVE. KNOB AT FIRST POSITION OUT.
MECHANICALLY MOVES FUEL
INJECTOR TO RUN OR FUEL
POSITION
- PG - PREGLOW. KNOB AT SECOND POSITION
OUT. LIGHTLY SPRING LOADED.
ELECTRICAL CURRENT APPLIED TO
GLOW PLUGS THROUGH DASH INDICATOR
- S - START. KNOB AT THIRD POSITION OUT.
HEAVIER SPRING LOADED. ELECTRICAL
CURRENT APPLIED DIRECTLY TO GLOW
PLUGS AND TO CRANKING CIRCUITS

GLOW PLUG
RESISTANCE
CONTROL

DASH INDICA

GLOW PLUGS

NOTE 2

STARTER
LOCKOUT SWITCH
(CLOSED WITH
SHIFT LEVER IN
PARK OR NEUTRAL)

75

7

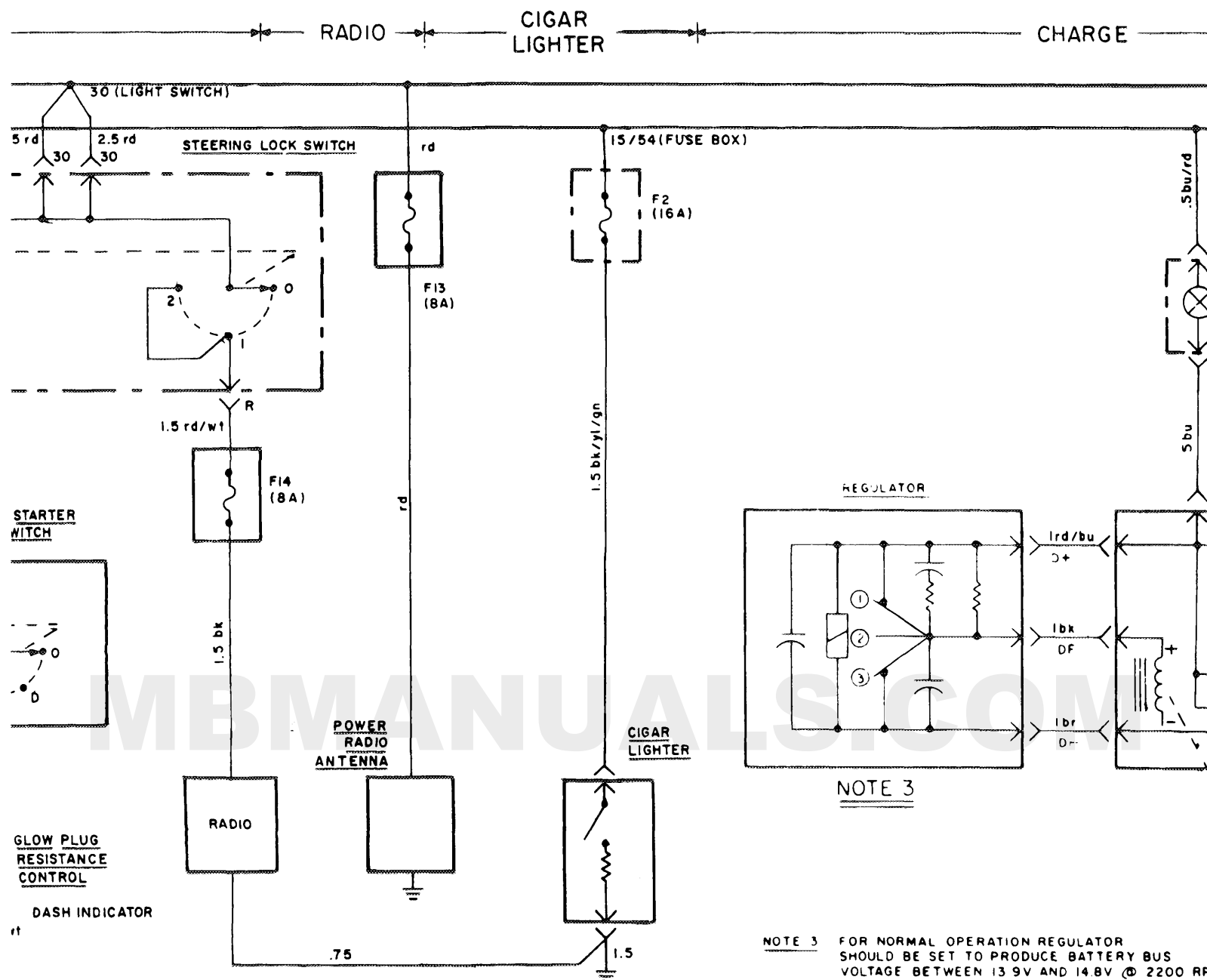
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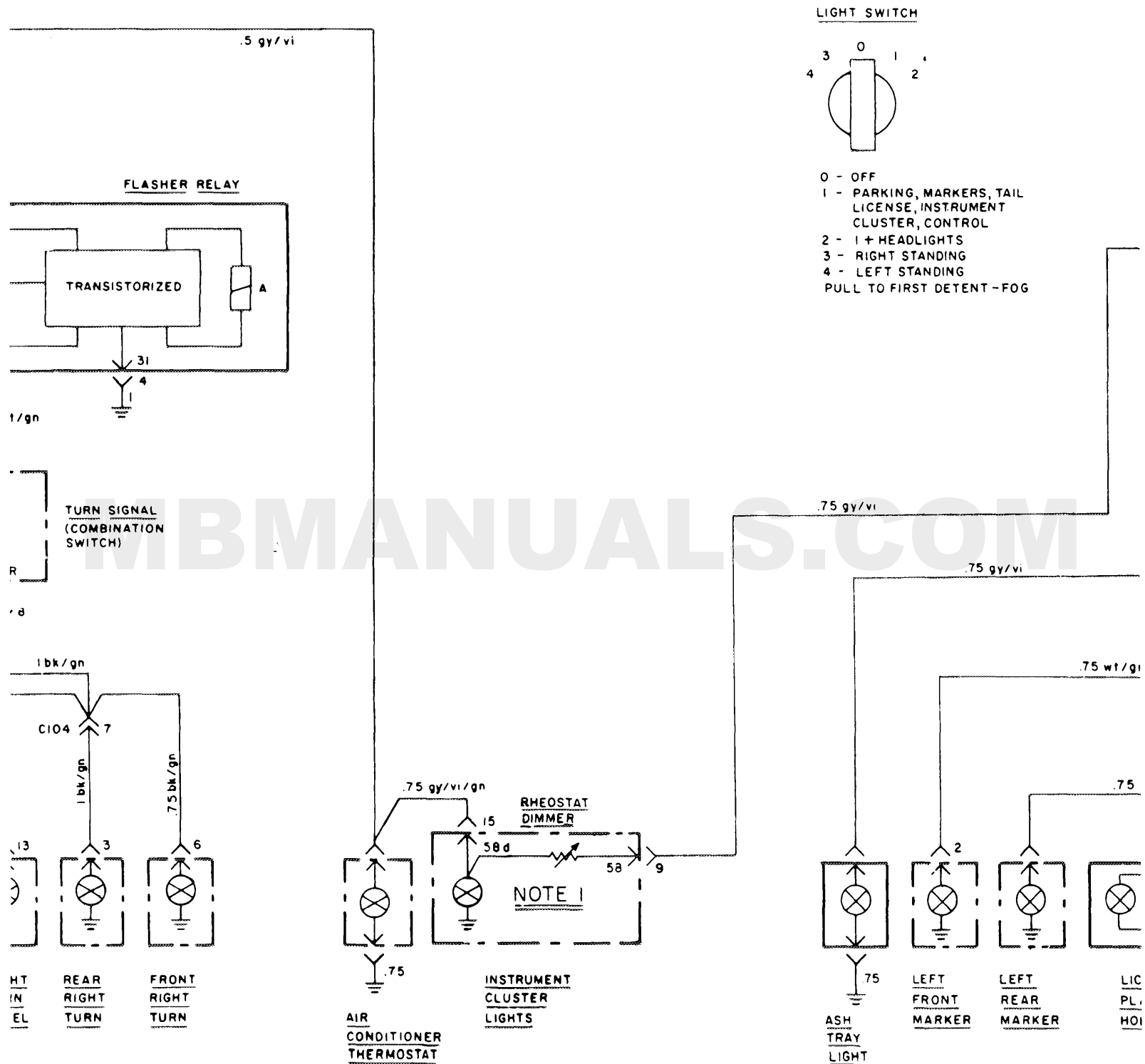
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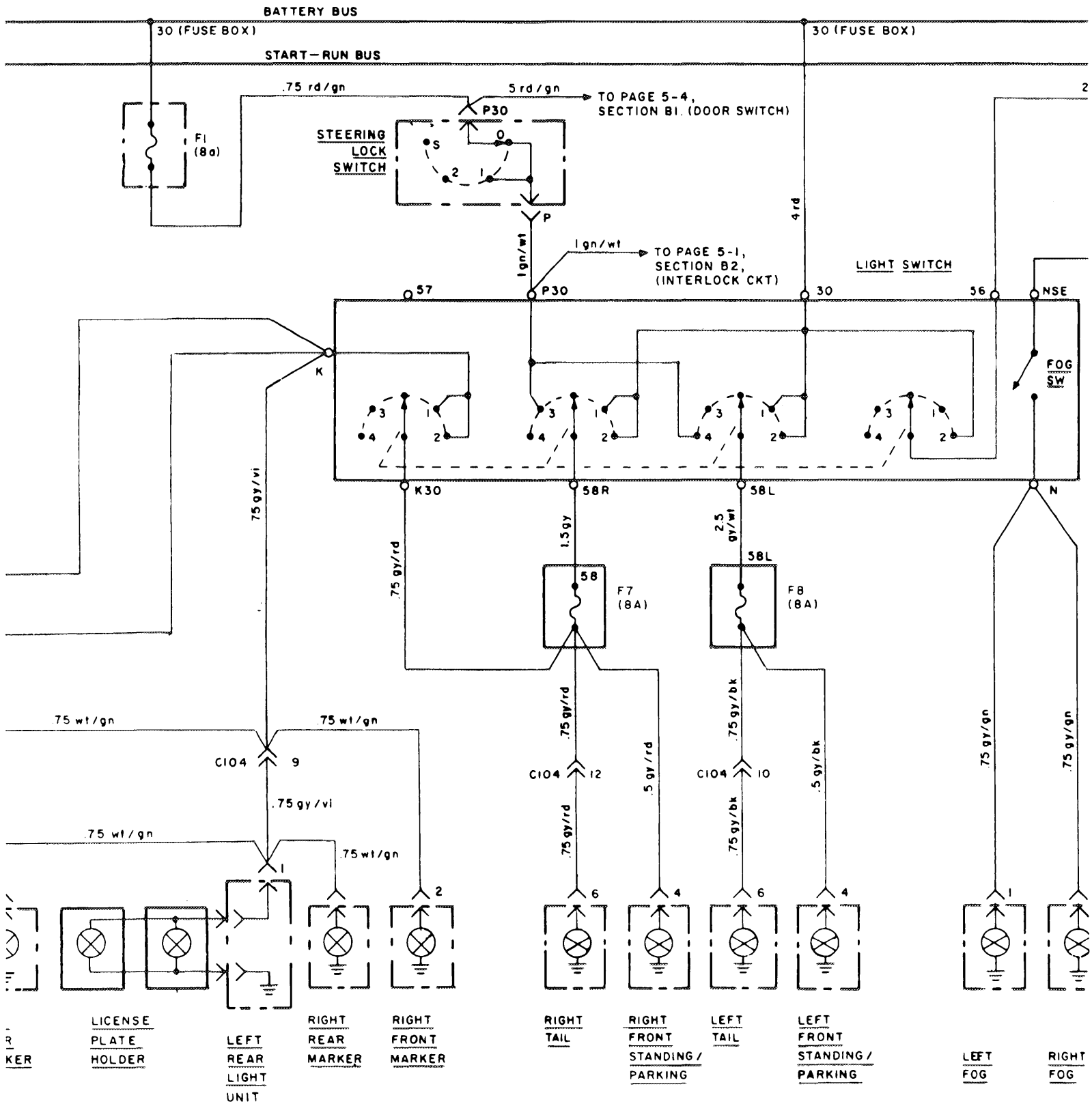


AC/INST. CLUSTER/ASH TRAY LIGHTS



NOTE 1: THERE ARE 5 INSTRUMENT CLUSTER BULBS IN PARALLEL

LIGHT SWITCH



NOTE 2: POSITION 1 - HI
POSITION 2 - L
POSITION 3 - P

13

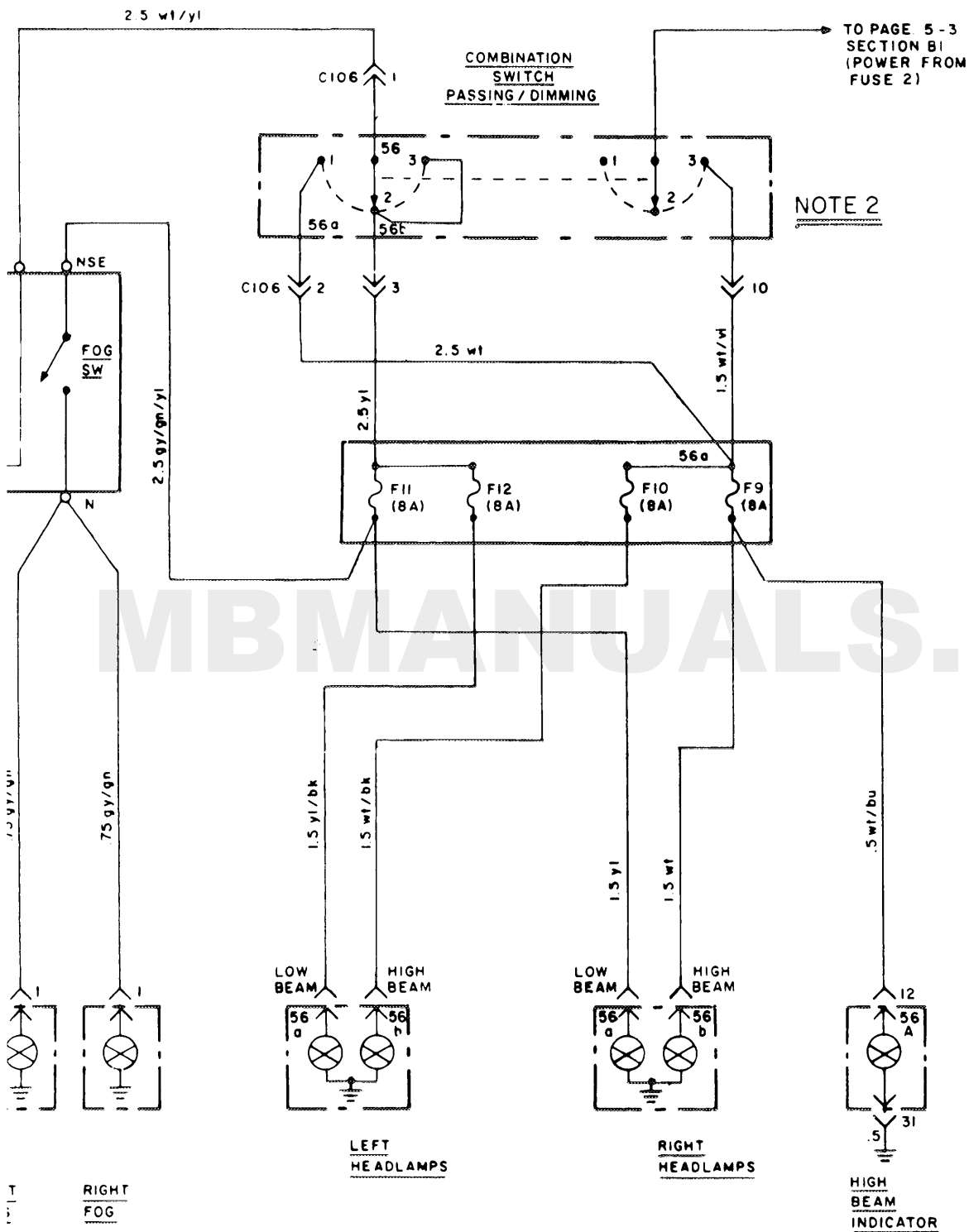
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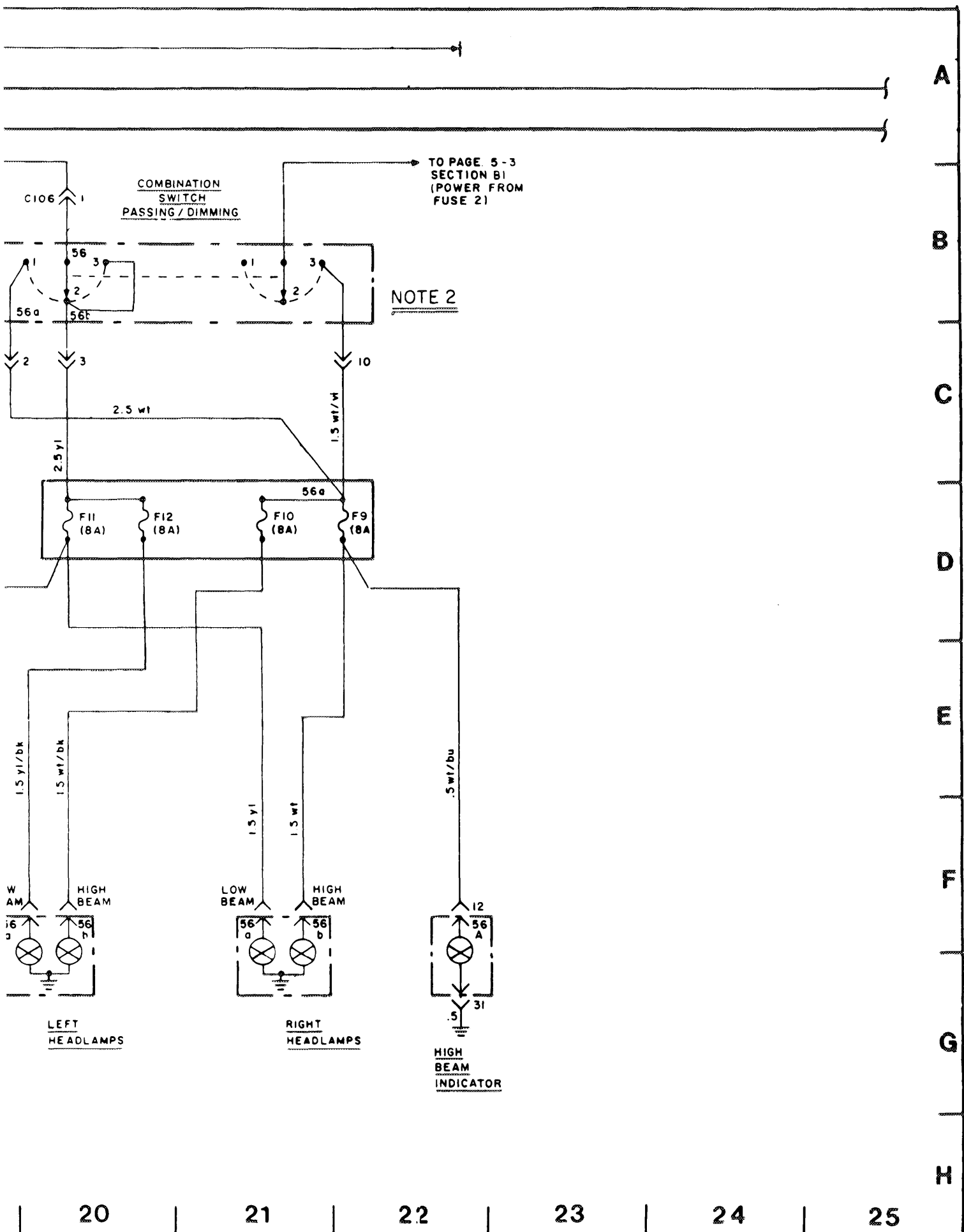
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18





WINDSHIELD WIPER / WASHER

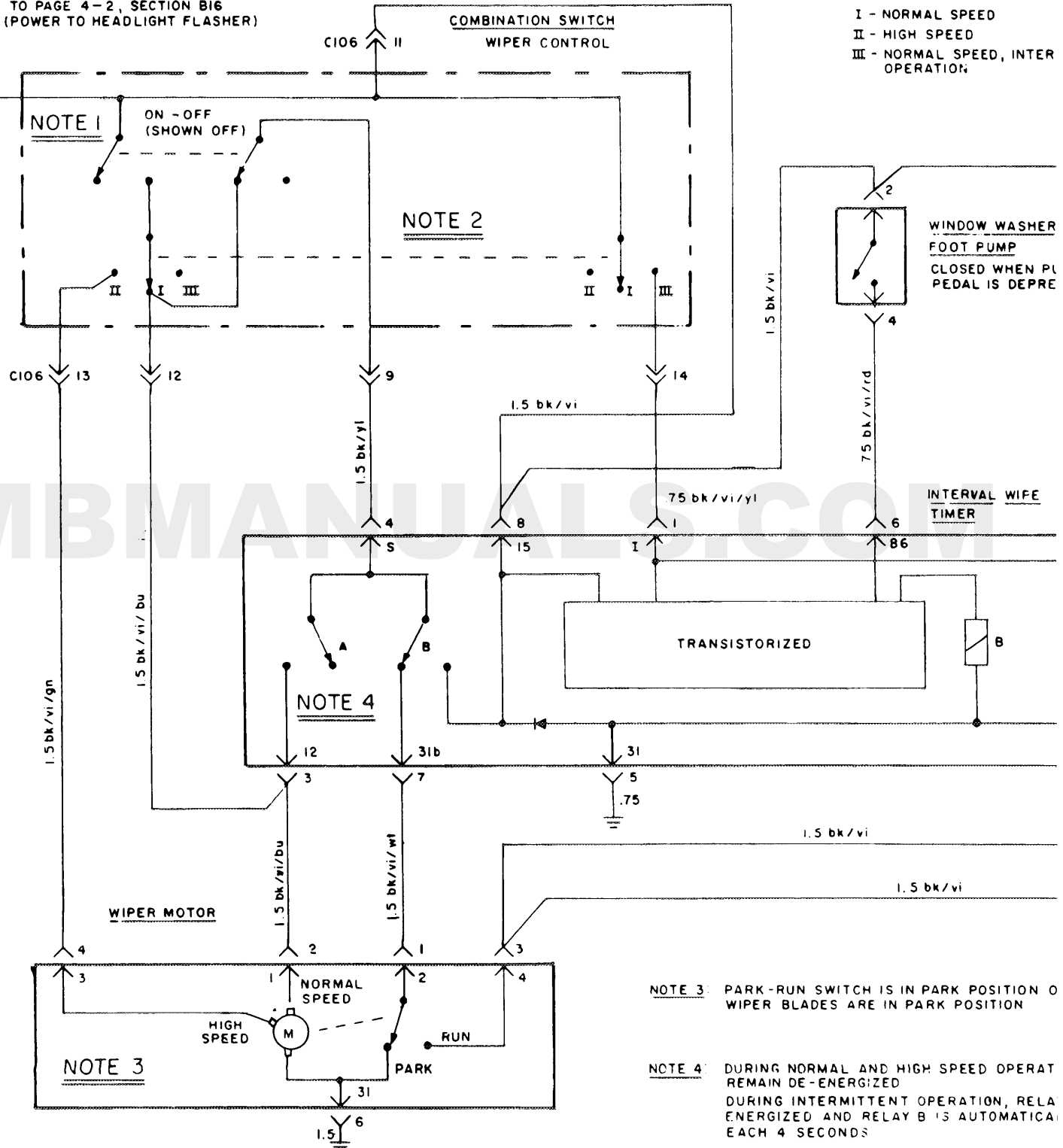
A
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BATTERY BUS

START-RUN BUS

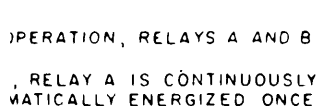
NOTE 1: TO PAGE 4-2, SECTION B16
(POWER TO HEADLIGHT FLASHER)

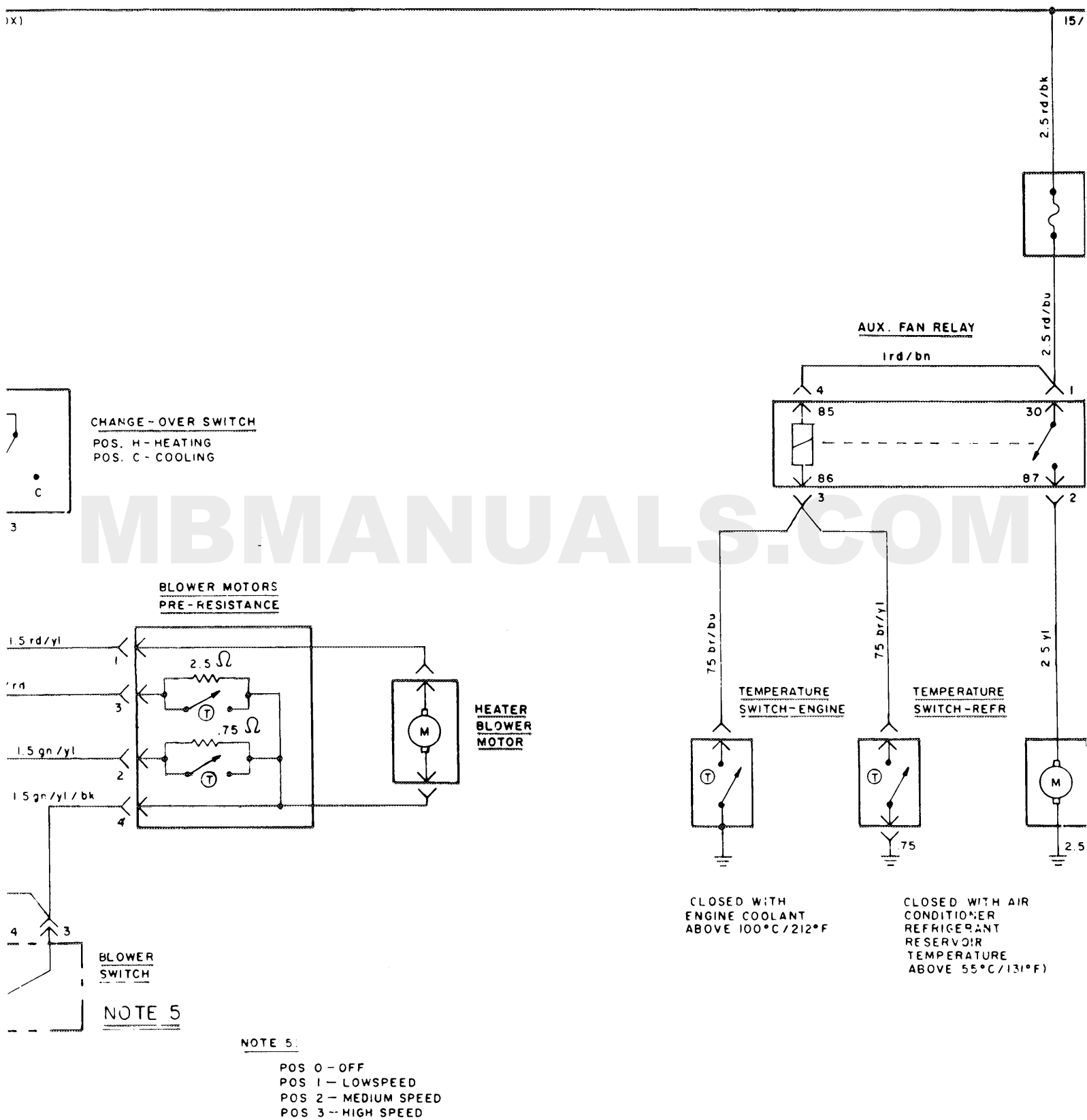
NOTE 2: WIPER ROCKER SWITCH POS
I - NORMAL SPEED
II - HIGH SPEED
III - NORMAL SPEED, INTER
OPERATION

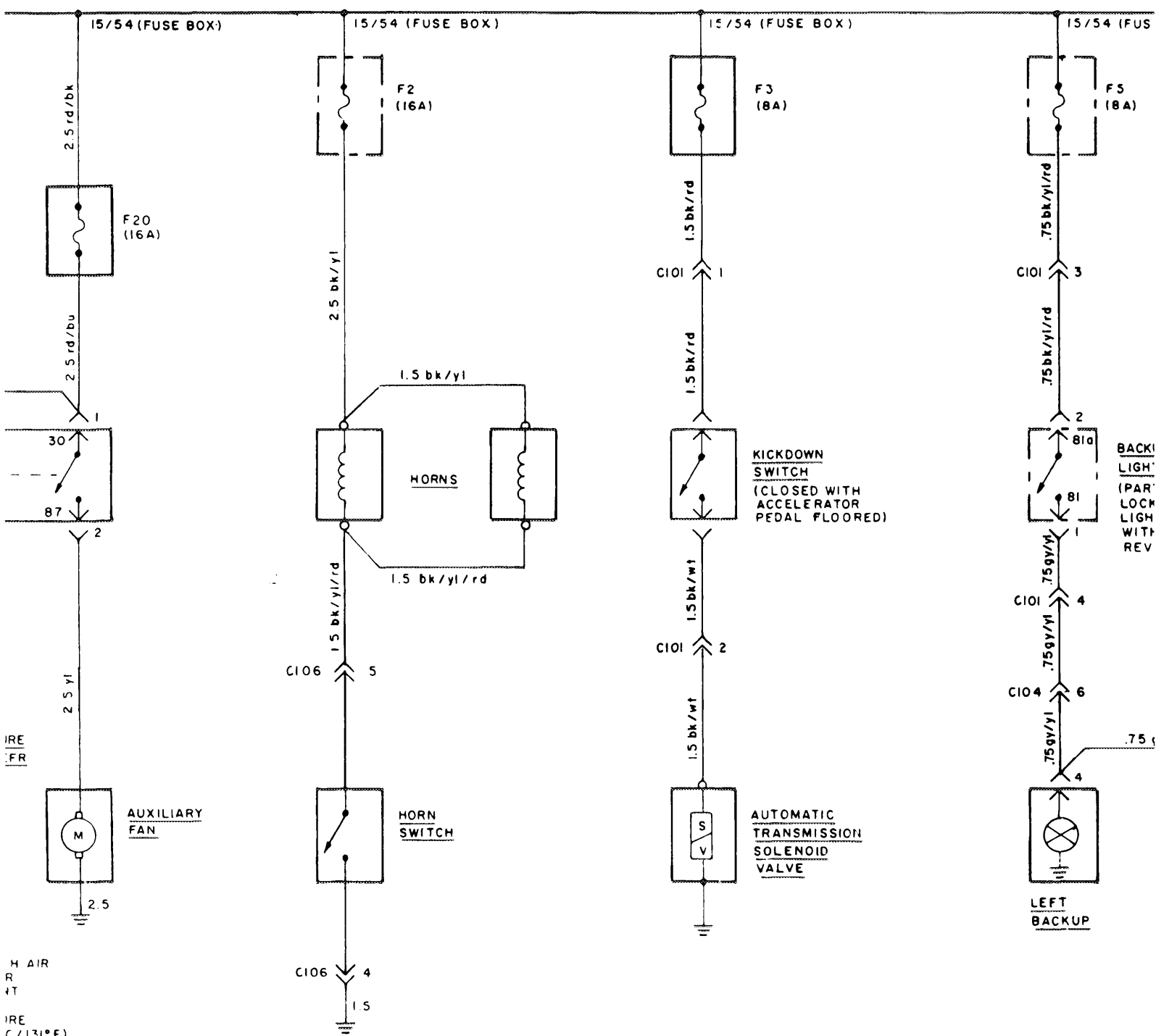


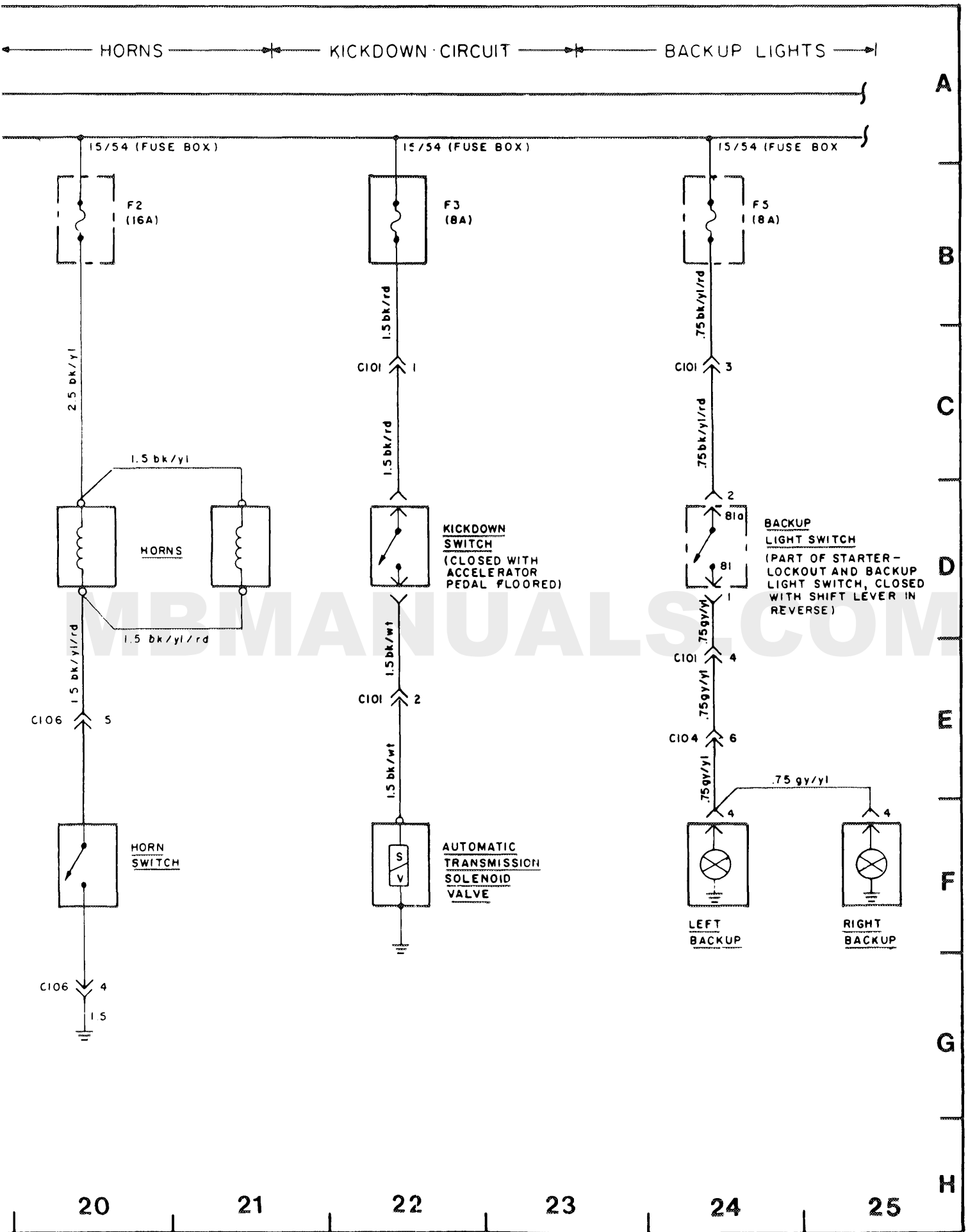
NOTE 3: PARK-RUN SWITCH IS IN PARK POSITION O
WIPER BLADES ARE IN PARK POSITION

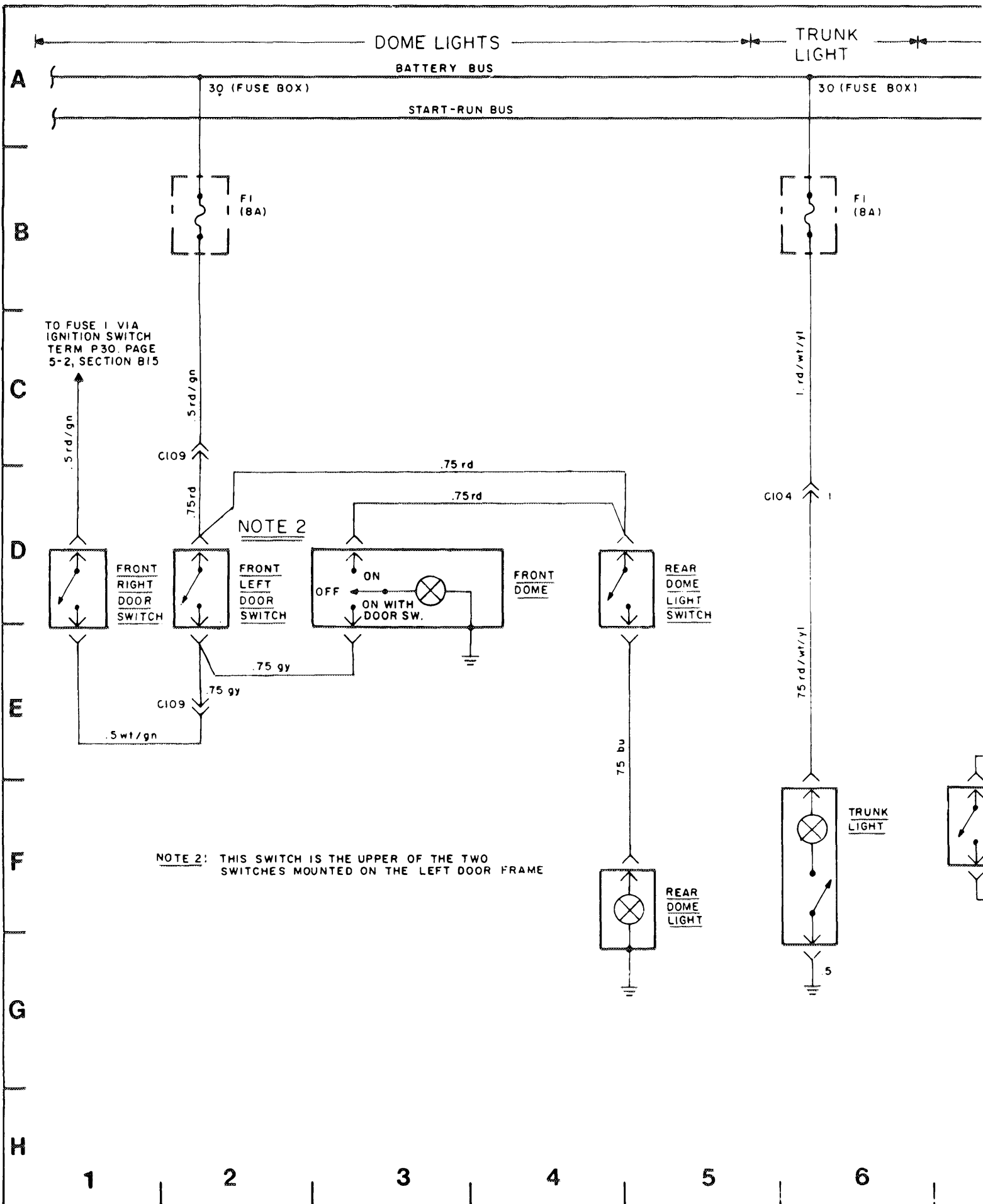
NOTE 4: DURING NORMAL AND HIGH SPEED OPERAT
REMAIN DE-ENERGIZED
DURING INTERMITTENT OPERATION, RELAY
ENERGIZED AND RELAY B IS AUTOMATIC
EACH 4 SECONDS





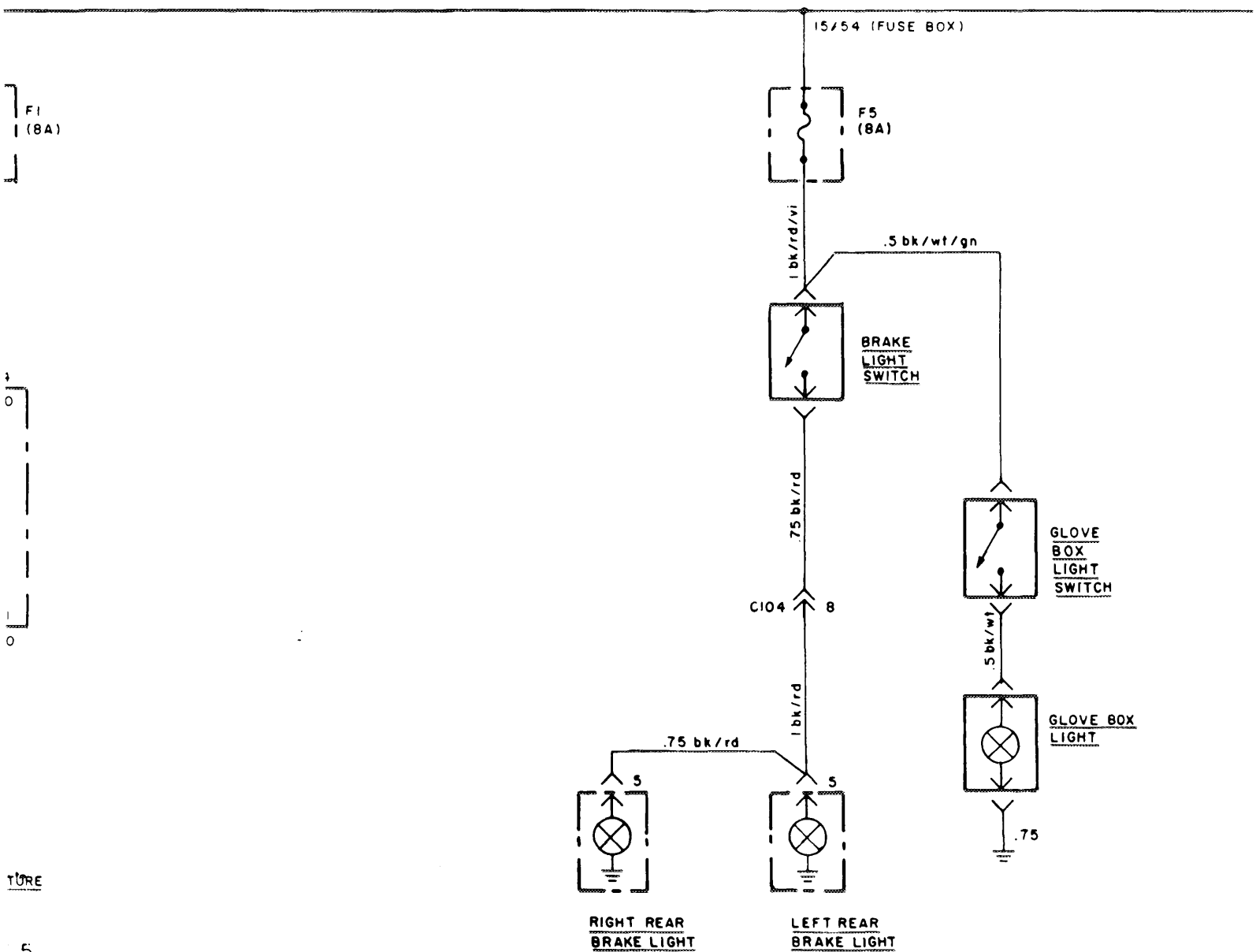






CK ———— |————— BRAKE-STOP ———— |————— GLOVE BOX—————

5 (FUSE BOX)



TURE

5

RESISTANCE AT 65° F — 460 Ω

13

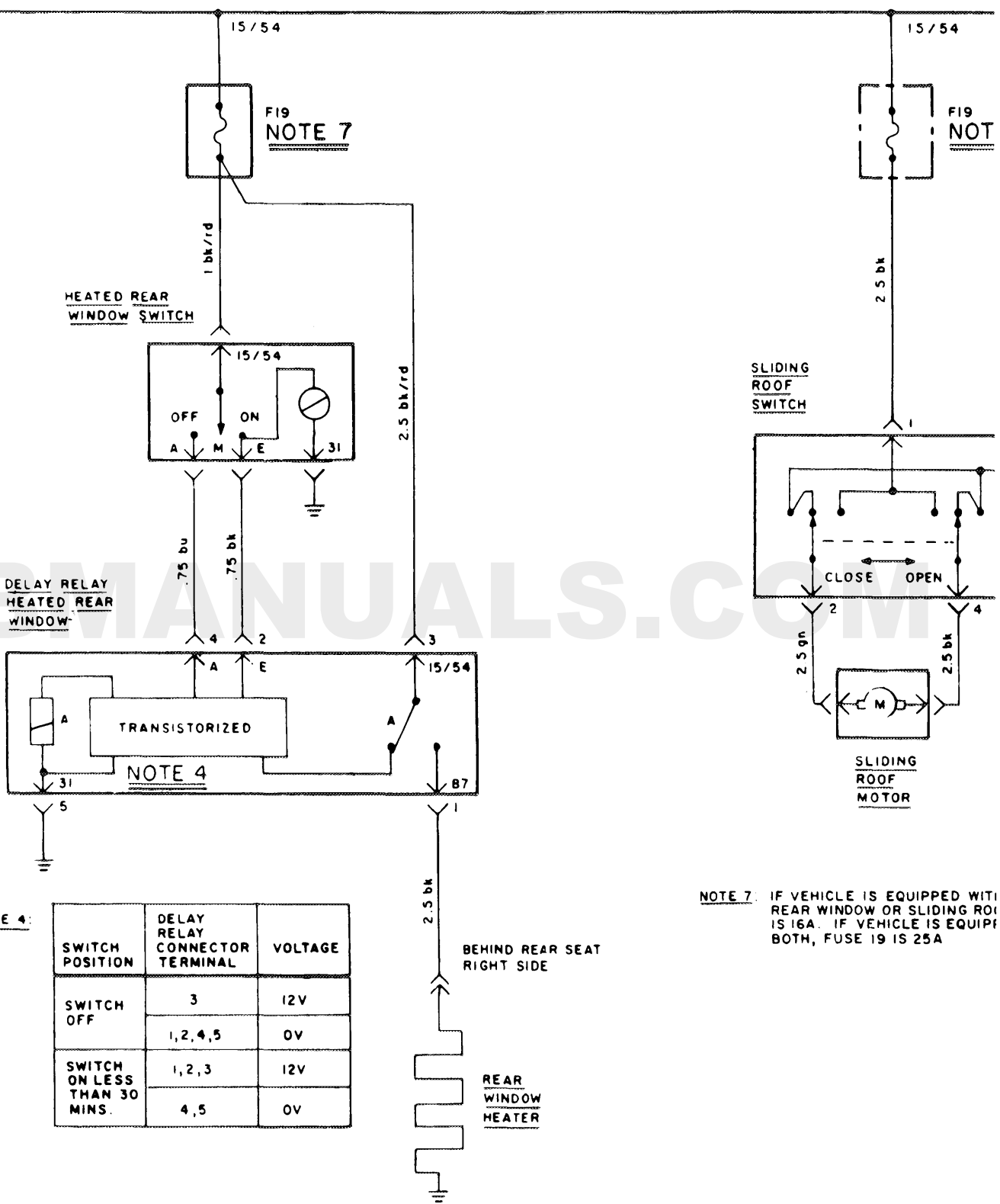
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16

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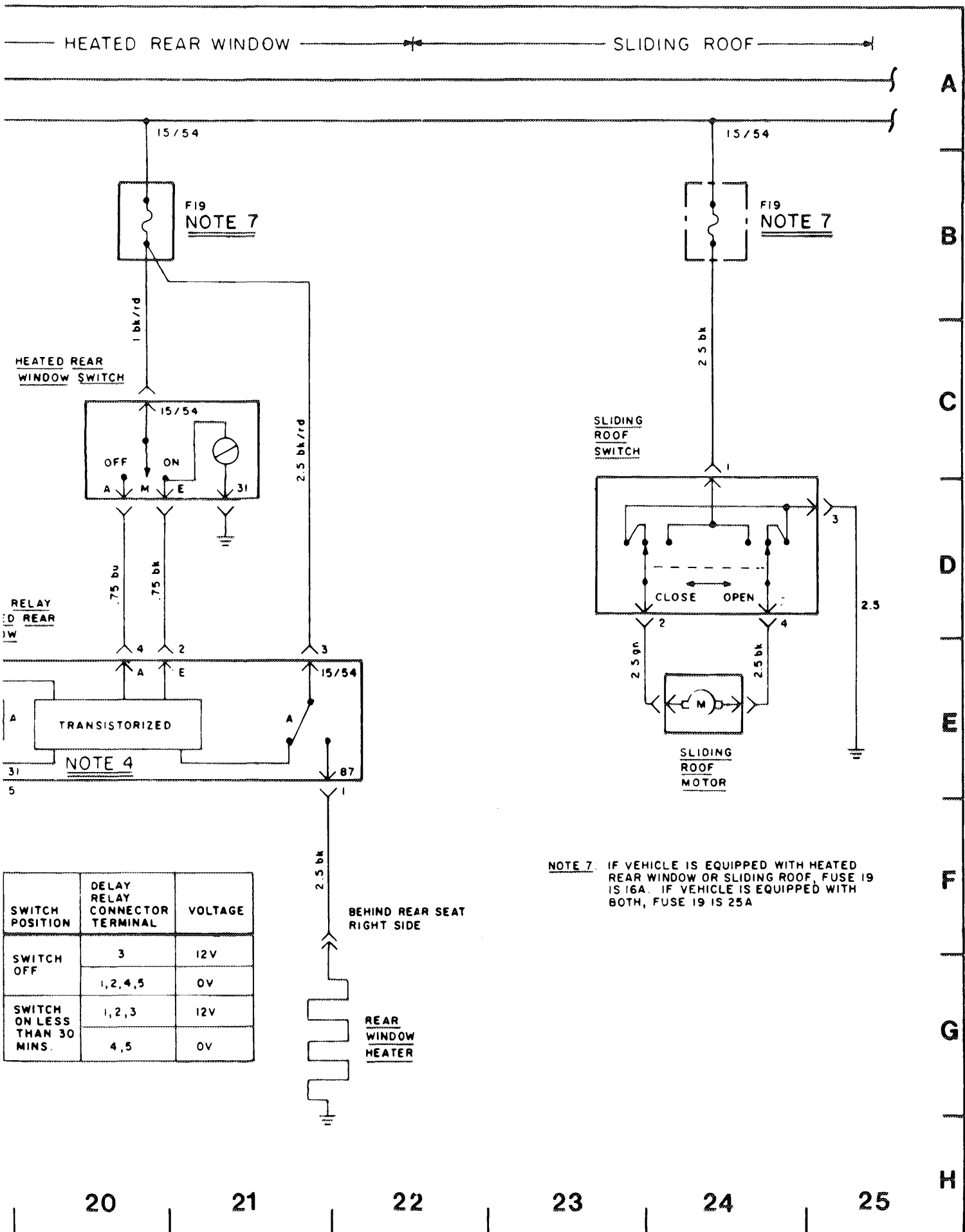
18



NOTE 4:

SWITCH POSITION	DELAY RELAY CONNECTOR TERMINAL	VOLTAGE
SWITCH OFF	3	12V
	1,2,4,5	0V
SWITCH ON LESS THAN 30 MINS.	1,2,3	12V
	4,5	0V

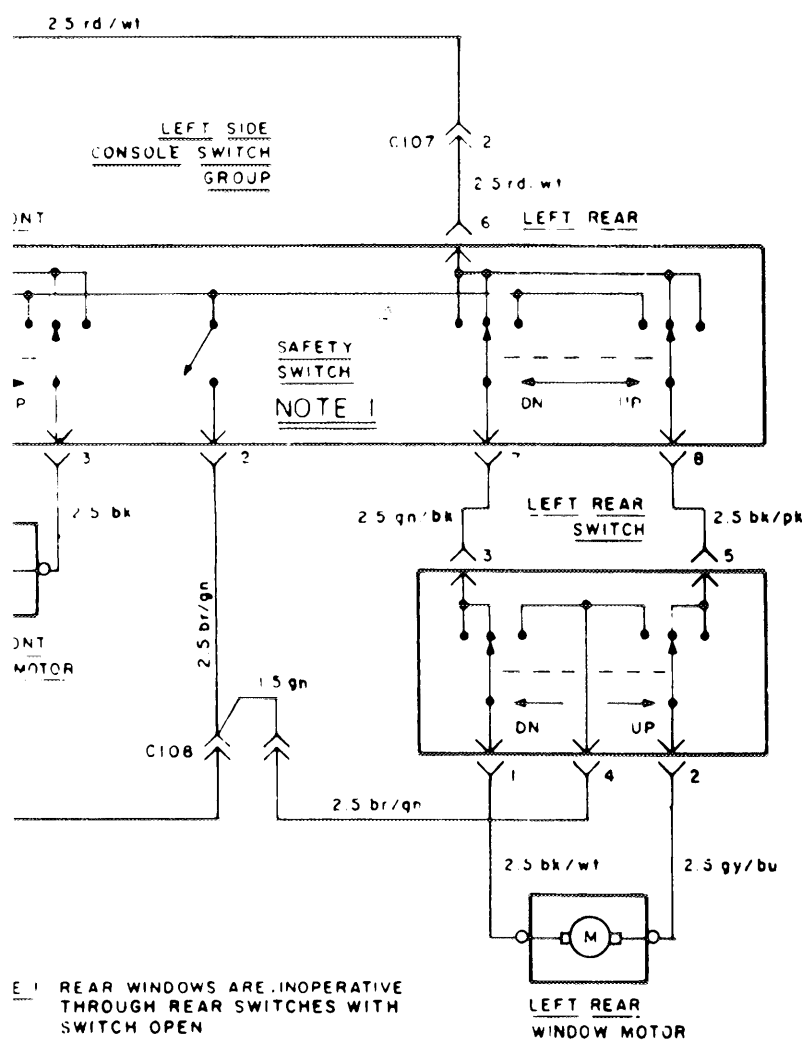
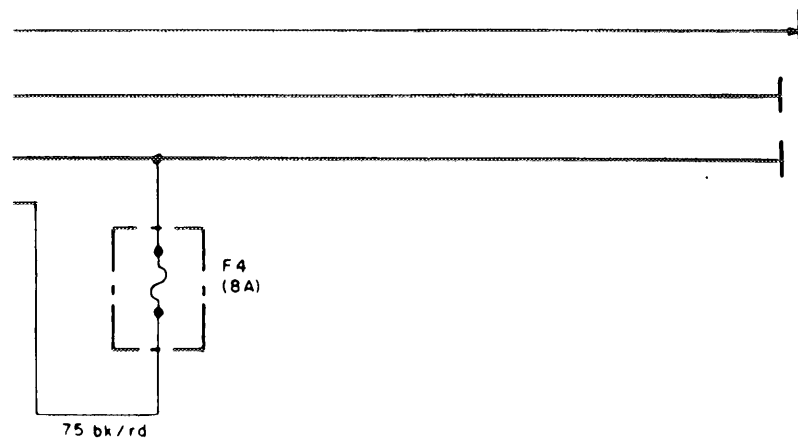
NOTE 7: IF VEHICLE IS EQUIPPED WITH REAR WINDOW OR SLIDING ROOF, FUSE 19 IS 16A. IF VEHICLE IS EQUIPPED WITH BOTH, FUSE 19 IS 25A



START-RUN BUS

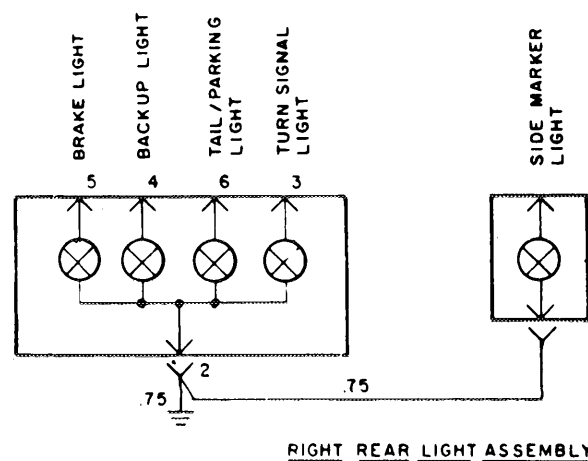
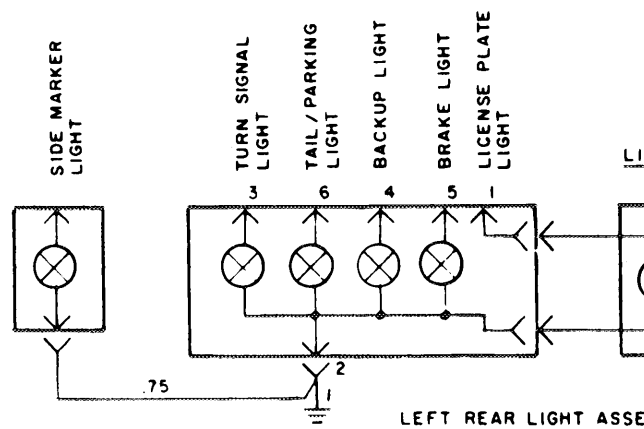
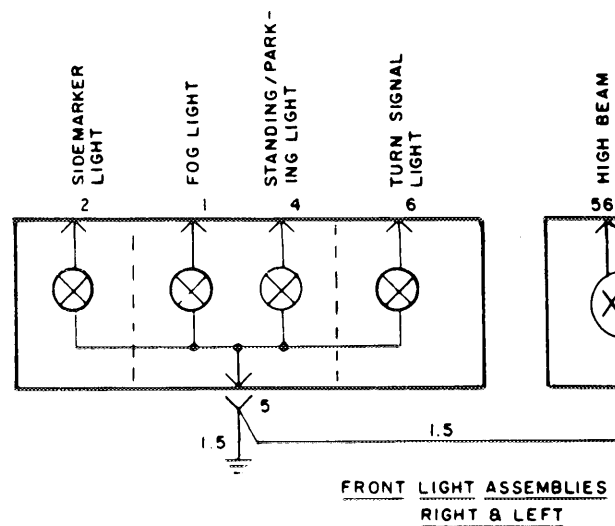
30 (FUSE BOX)





REAR WINDOWS ARE INOPERATIVE THROUGH REAR SWITCHES WITH SWITCH OPEN

SPECIAL GROUNDING CIRCUITS



7

8

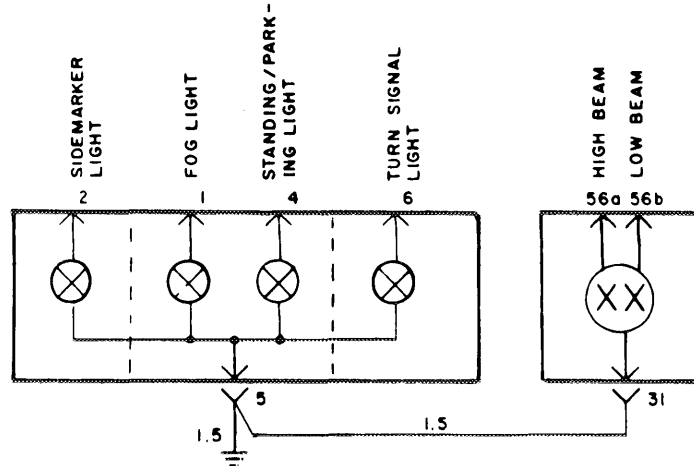
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10

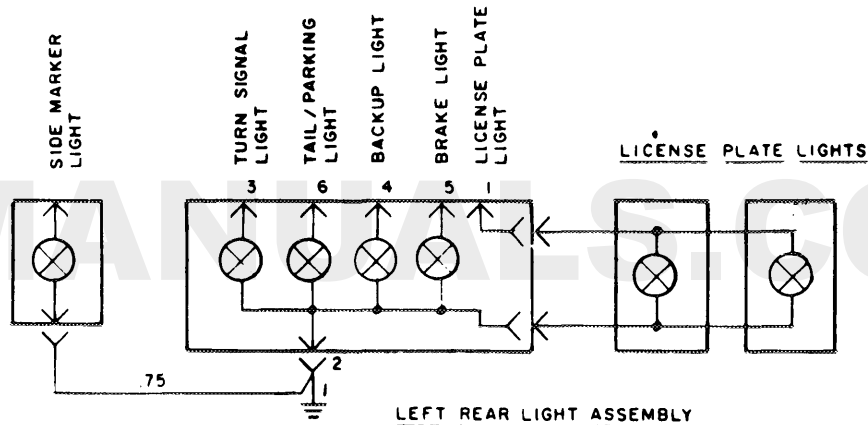
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12

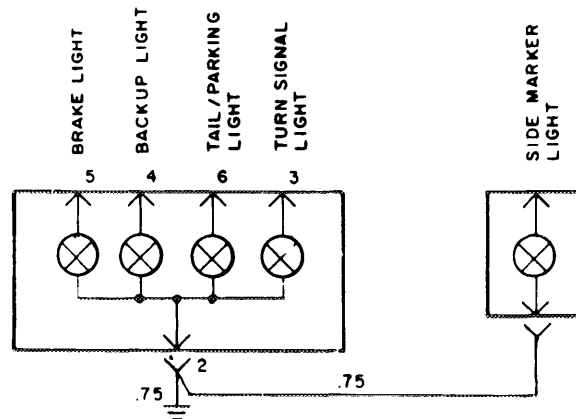
SPECIAL GROUNDING CIRCUITS



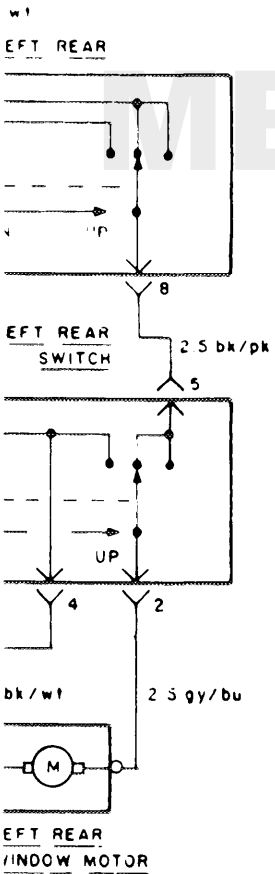
FRONT LIGHT ASSEMBLIES -
RIGHT & LEFT



LEFT REAR LIGHT ASSEMBLY



RIGHT REAR LIGHT ASSEMBLY



9

10

11

12

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14

240D

COMPONENT	COMPONENT LOCATION ON VEHICLE	COMPONENT LOCATION PHOTOGRAPH	COMPONENT TERMINAL PHOTOGRAPH
AIR CONDITIONING/HEATING			
A/C blower motor	center of console	3-1	3-37
A/C clutch	front of compressor	3-2	
A/C control light	console		
A/C starter relay key 4	right firewall—under fuse bracket		
A/C thermostat	console	3-2	3-48
Blower switch	console	3-2	
Change-over switch	console, left side	3-27	
Fuse 6	fuse box	3-4	
Fuse 21 (A/C blower)	firewall—right side	3-4	
Fuse 22 (A/C clutch)	firewall—right side		
Heater blower motor	behind A/C blower		
Heater blower motor pre-resistor	left firewall	3-4	3-32
C 113	mounted to heater control lever plate	3-6	
AUXILIARY FAN			
Auxiliary fan	front of radiator	3-7	3-37
Aux. fan relay key 6	below radio fuse box	3-23	
Fuse 20 (Aux. fan)	left fender		
Temp. sw. (100°C/212°F) engine	thermostat housing		
Temp sw.(65°C/149°F)refrigerant	right firewall	3-9	
CHARGE			
Alternator	below A/C compressor	3-10	
Charge indicator light	inst. cluster		
Regulator	right front fender		
CIGAR LIGHTER			
Cigar lighter	console	3-2	3-48
Fuse 2	fuse box	3-4	
CLOCK			
Clock	inst. cluster	3-10	3-48
Fuse 1	fuse box	3-4	
FUEL GAUGE			
Fuel gauge	inst. cluster	3-10	3-48
Fuel tank sensor	below trunk floor	3-14	
Fuse 5	fuse box	3-4	
C 104	under dash—drivers side	3-15	

240D

COMPONENT	COMPONENT LOCATION ON VEHICLE	COMPONENT LOCATION PHOTOGRAPH	COMPONENT TERMINAL PHOTOGRAPH
GLOW PLUGS			
A/C starter relay, key 4	rt. firewall—under fuse bracket		3-37
Glow plug indicator	dash		
Glow plugs	engine		
Glow/starter switch	dash		
Seat belt-starter logic relay	under dash—drivers side	3-15	3-39
Starter lockout switch	L. side trans. (auto. trans.) top of trans. (stand. trans.)		
Steering lock switch (ignition switch)	dash		
C 101	lower center console		
HEATED REAR WINDOW			
Time delay relay	under dash—drivers side	3-15	3-44
Fuse 19 (window)	left fender		
Heater	rear window		
Switch	console	3-2	
C 112	behind rear seat—right side	3-16	
HORNS			
Horn switch			
Horns			
Fuse 2	fuse box	3-4	3-48
C 106	under dash—drivers side	3-15	3-35
KICKDOWN			
Fuse 3	fuse box	3-4	3-48
Solenoid	right side transmission		
Switch	below accelerator pedal		
C 101	lower console	3-19	
LIGHT CIRCUITS			
A/C CONTROL			
Change-over switch	console	3-27	
Fuse 6	fuse box	3-4	3-48
Light	console	3-2	
ASH TRAY			
Fuse 7	fuse box	3-4	3-48
Light switch	dash		

240D

COMPONENT	COMPONENT LOCATION ON VEHICLE	COMPONENT LOCATION PHOTOGRAPH	COMPONENT TERMINAL PHOTOGRAPH
BACKUP			
Fuse 5	fuse box	3-4	3-48
Lights	rear light assemblies		
Switch	left side transmission		
C 101	lower center console		
C 104	under dash—drivers side	3-15	
BRAKE SYSTEM WARNING			
Fluid switches	fluid reservoir	3-4	
Fuse 5	fuse box	3-4	3-48
Parking switch	top, parking brake		
Reservoir & parking brake light	inst. cluster	3-10	
DOME (FRONT)			
Front left door switch	door post		
Front right door switch	door post		
Fuse 1	fuse box	3-4	3-48
C 109	console		
DOME (REAR)			
Fuse 1	fuse box	3-4	3-48
Switch	dash	3-20	
FOG (PERIMETER)			
Fuse 11	fuse box	3-4	3-48
Light switch	dash	3-20	3-43
Pass/dim switch	steering column	3-20	
C 106	under dash—drivers side	3-15	3-35
GLOVE BOX			
Fuse 5	fuse box	3-4	3-48
Switch	glove box		
HEAD			
Fuse 9	fuse box	3-4	3-48
Fuse 10	fuse box	3-4	3-48
Fuse 11	fuse box	3-4	3-48
Fuse 12	fuse box	3-4	3-48

240D

COMPONENT	COMPONENT LOCATION ON VEHICLE	COMPONENT LOCATION PHOTOGRAPH	COMPONENT TERMINAL PHOTOGRAPH
High beam indicator	inst. cluster	3-10	
Light switch	dash	3-20	3-43
Pass/dim switch	steering column	3-20	
C 106	under dash—drivers side	3-16	3-35
INSTRUMENT CLUSTER			
Fuse 7	fuse box	3-4	3-48
Light switch	dash	3-20	3-43
Rheostat	inst. cluster	3-10	
LOW FUEL WARNING			
Fuse 5	fuse box	3-4	3-48
Sender unit	below trunk floor	3-14	
C 104	under dash—drivers side	3-15	
Light	inst. cluster	3-10	
MARKER			
Fuse 7	fuse box	3-4	3-48
Light switch	dash	3-20	3-43
C 104	under dash—drivers side	3-15	
STANDING			
Fuse 1	fuse box	3-4	3-48
Fuse 7	fuse box	3-4	3-48
Fuse 8	fuse box	3-4	3-48
Ignition Switch	dash		
Light switch	dash	3-25	3-43
STOP			
Fuse 5	fuse box	3-4	3-48
Switch	above brake pedal		
C 104	under dash—drivers side	3-15	
TAIL			
Fuse 1	fuse box	3-4	3-48
Fuse 7	fuse box	3-4	3-48
fuse 8	fuse box	3-4	3-48
Ignition	dash		
Switch	dash	3-20	3-43
C 104	under dash—drivers side	3-15	

240D

COMPONENT	COMPONENT LOCATION ON VEHICLE	COMPONENT LOCATION PHOTOGRAPH	COMPONENT TERMINAL PHOTOGRAPH
TRUNK			
Fuse 1 C 104	fuse box under dash—drivers side	3-4 3-15	3-48
RADIO			
Antenna			
Fuse 13 (power antenna)	left fender		
Ignition switch	dash		
Radio	console		
Fuse 14 (radio)	left fender		
SEAT BELT INTERLOCK			
A/C starter relay, key 4	rt. firewall—under fuse bracket		3-37
Door switch	left front door—lower		
Driver's buckle switch	buckle		
Driver's seat switch	seat		
Fasten seat belt light	dash	3-2	
Ignition switch	dash		
Ignition warning switch	ignition switch		3-42
Logic relay	under dash—drivers side	3-15	3-39
Passenger buckle switch	buckle		
Passenger seat switch	seat		
Starter lockout switch	left side transmission		
Warning buzzer	under dash—drivers side	3-15	3-45
C 101	lower center console		
SLIDING ROOF			
Fuse 19			
Motor	behind spare tire		
Switch	console	3-2	
START			
A/C starter relay, key 4	rt. firewall—under fuse bracket		3-37
Battery			
Motor			
TEMPERATURE GAUGE			
Fuse 5	fuse box	3-4	3-48
Sensor	engine—left side	3-22	

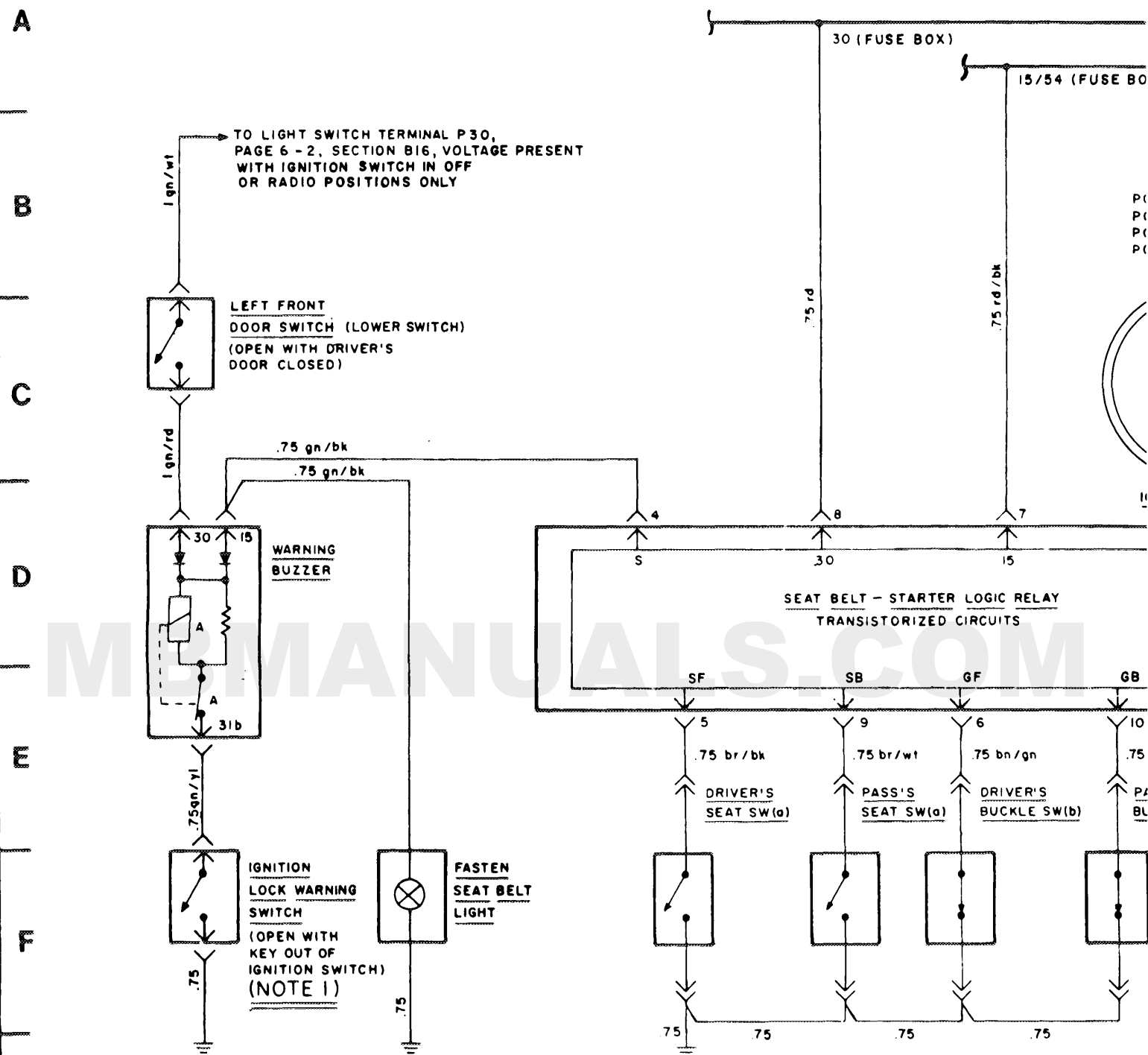
240D

COMPONENT	COMPONENT LOCATION ON VEHICLE	COMPONENT LOCATION PHOTOGRAPH	COMPONENT TERMINAL PHOTOGRAPH
TURN SIGNAL AND FLASHER			
Flasher relay	under dash—drivers side	3-15	
Flasher switch	console	3-2	3-46
Fuse 1	fuse box	3-4	3-48
Fuse 4	fuse box	3-4	3-48
Turn signal switch	steering column	3-20	
C 104	under dash—drivers side	3-15	
C 106	under dash—drivers side	3-15	
WINDOWS			
Fuse F4	fuse box	3-4	3-48
Fuse F17 (FL/RR)	firewall—right side		
Fuse F18 (FR/RL)	firewall—right side		
Left front motor	door		
Left rear motor	door		
Left rear switch	side panel		
Left side switch group	console		3-38
Relay key 10	rt. firewall—under fuseholder		3-47
Right front motor	door		
Right rear motor	door		
Right rear switch	side panel		
Right side switch group	console		3-38
C 107	console		
C 108	console		
WINDSHIELD WIPER/WASHER			
Combination switch	steering column	3-20	
Foot pump switch	left floor	3-5	
Fuse 2	fuse box	3-4	3-48
Interval wipe timer	under dash—drivers side	3-15	3-40
Motor	firewall—left side	3-4	
C 106	under dash—drivers side	3-15	3-35

MODEL 280/280C

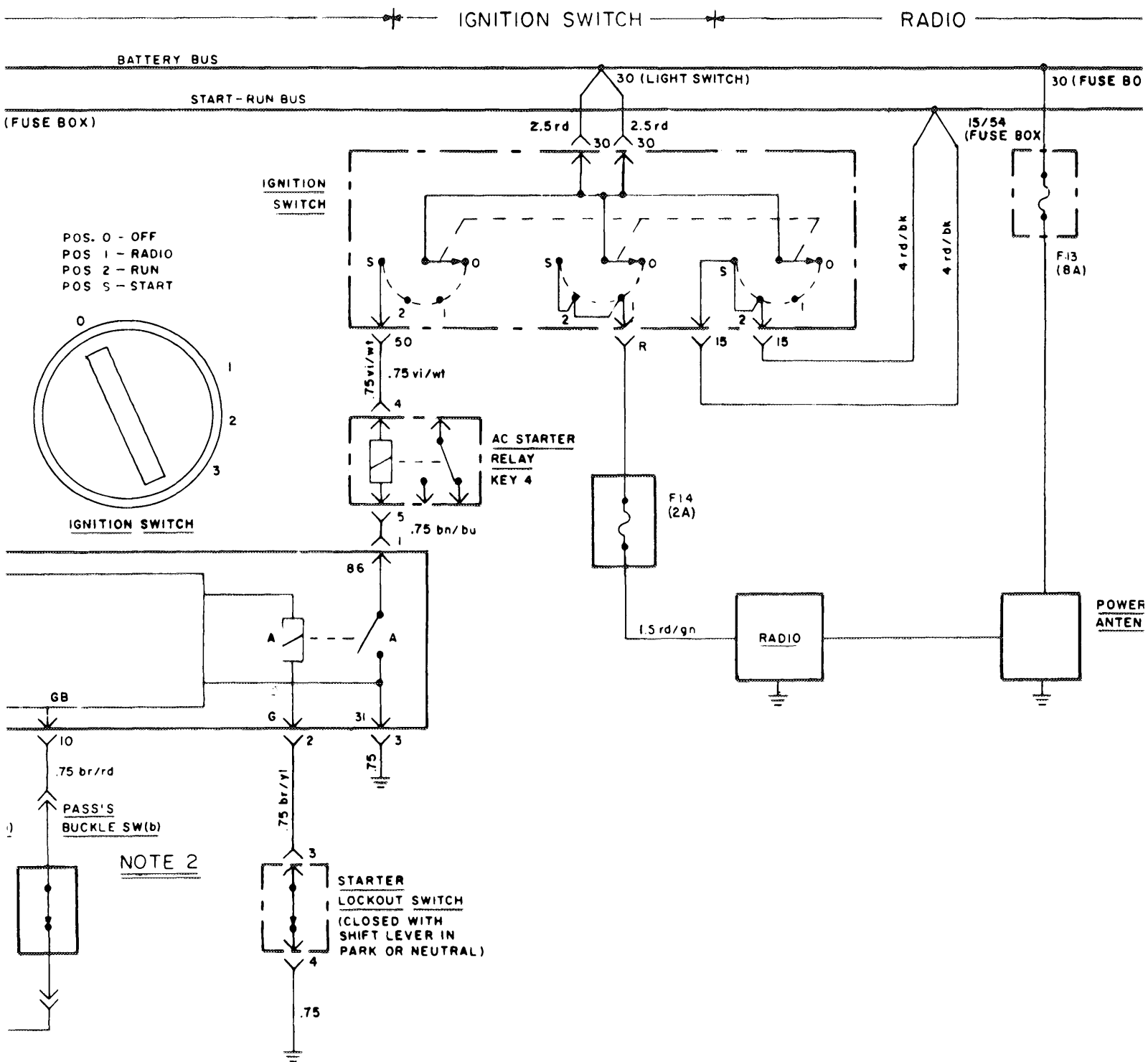
	Schematic Location	
	Page,	Coordinate
AIR CONDITIONING/HEATING	6-3	D12
AUXILIARY FAN	6-3	D18
CHARGE	6-1	D14
CHOKE HEATING	6-4	D20
CIGAR LIGHTER	6-2	F11
CLOCK	6-4	D12
FUEL GAUGE	6-4	D10
HEATED REAR WINDOW	6-5	D12
HORNS	6-3	D20
IDLE FUEL CUT OFF	6-2	C24
IGNITION SWITCH	6-1	B10
IGNITION SYSTEM	6-1	D23
KICKDOWN	6-3	D22
LIGHT CIRCUITS		
AIR CONDITIONING CONTROL	6-3	E11
ASH TRAY	6-2	G11
BACKUP	6-3	F24
BRAKE SYSTEM WARNING	6-4	D9
DOME, FRONT	6-4	D3
DOME, REAR	6-4	D5
FOG (PERIMETER)	6-2	G18
GEAR SELECTOR	6-2	G10
HEAD	6-2	G21
INSTRUMENT CLUSTER	6-2	G9
LOW FUEL WARNING	6-4	D10
MARKER	6-2	F13
STANDING	6-2	G16
STOP	6-4	F16
TAIL	6-2	G16
TRUNK	6-4	F6
RADIO	6-1	C10
SEAT BELT INTERLOCK	6-1	D5
SLIDING ROOF	6-5	D15
START	6-1	D17
TEMPERATURE GAUGE	6-4	D11
TURN SIGNS AND FLASHER	6-2	D5
WINDOWS	6-5	D6
WINDSHIELD WIPER/WASHER	6-3	D5

SEAT BELT INTERLOCK



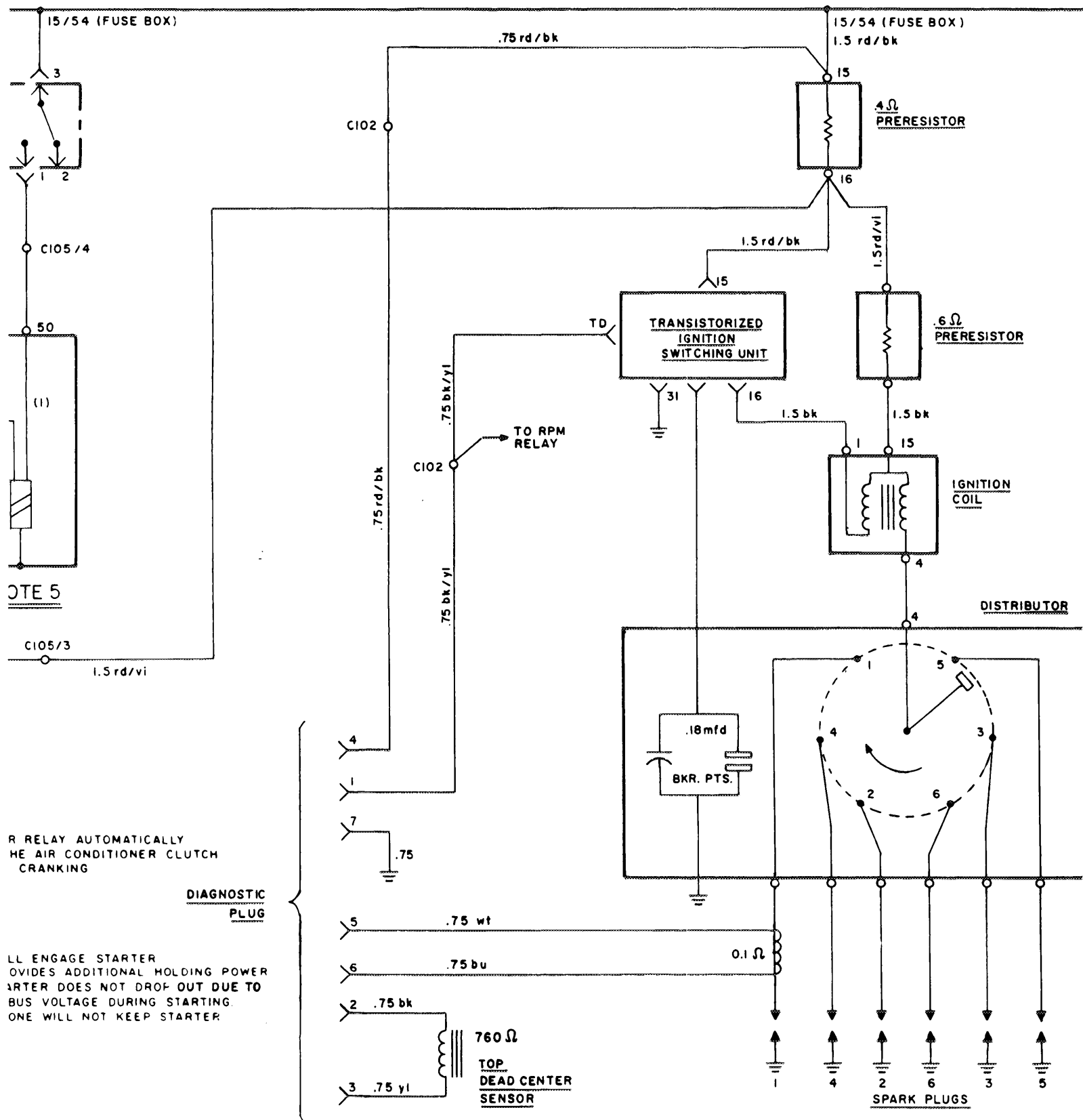
NOTE 1: IGNITION KEY MUST BE
TURNED TO RUN POSITION AND THEN
TO OFF BEFORE SWITCH WILL
CLOSE

NOTE 2: (a) SWITCHES OPEN WITH SEAT UNOCCUPIED
(b) SWITCHES CLOSED WITH BELT UNBUCKLED

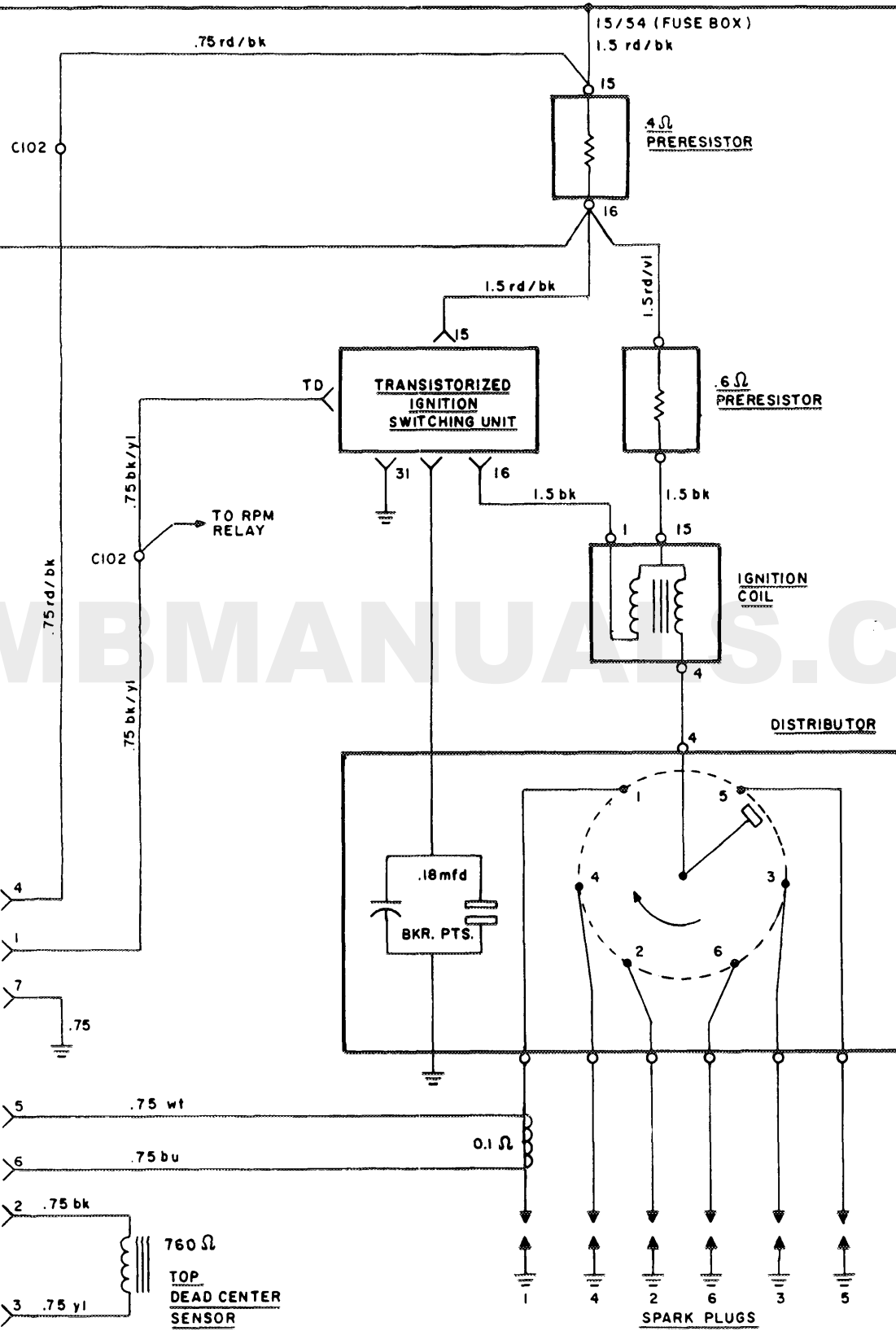


GENERAL NOTE: SOLID BROWN WIRE INSULATION ALWAYS INDICATES GROUND. COMPONENT TERMINAL 31 IS ALWAYS GROUND

IGNITION SYSTEM



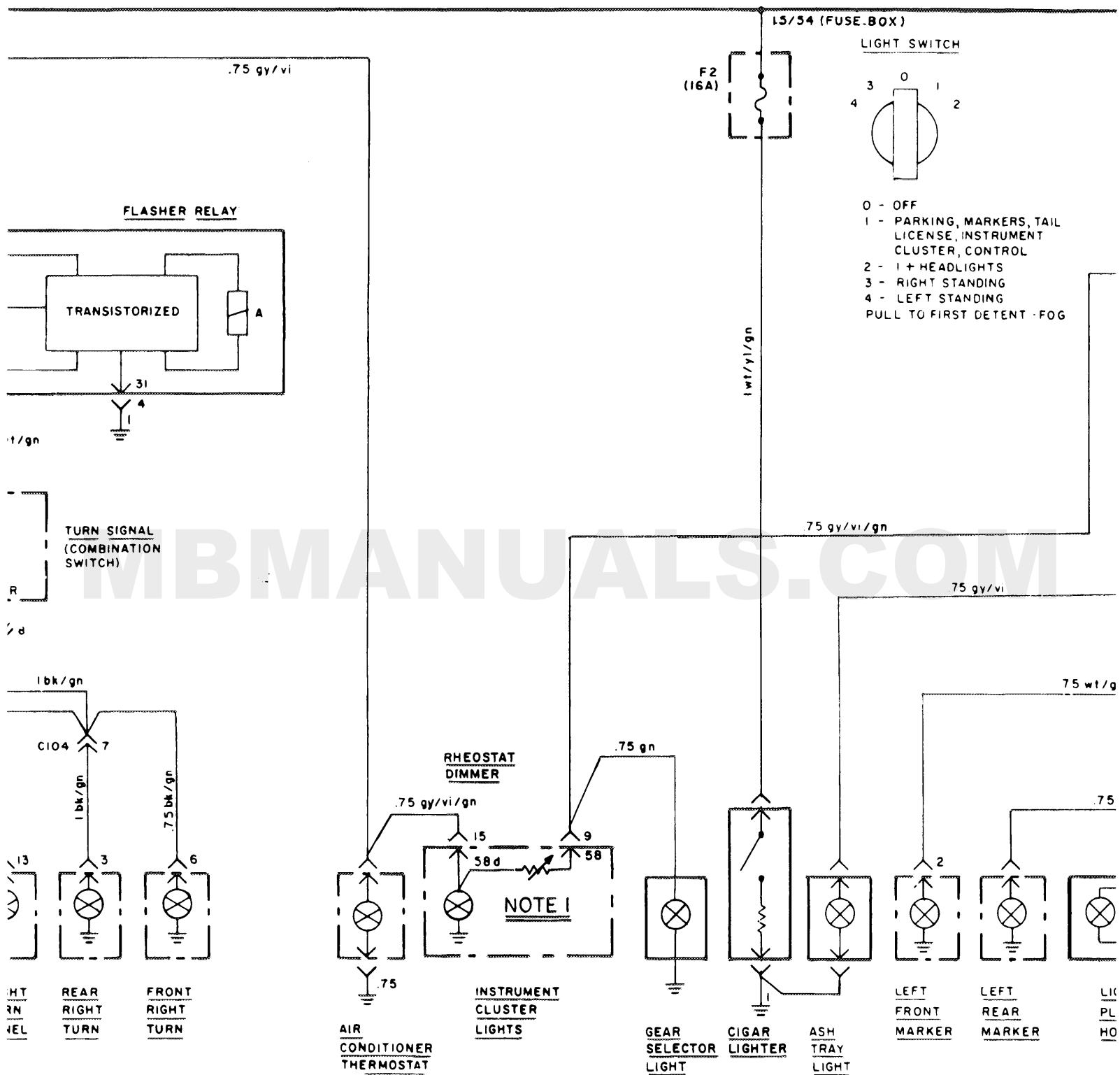
IGNITION SYSTEM



A
—
B
—
C
—
D
—
E
—
F
—
G
—
H

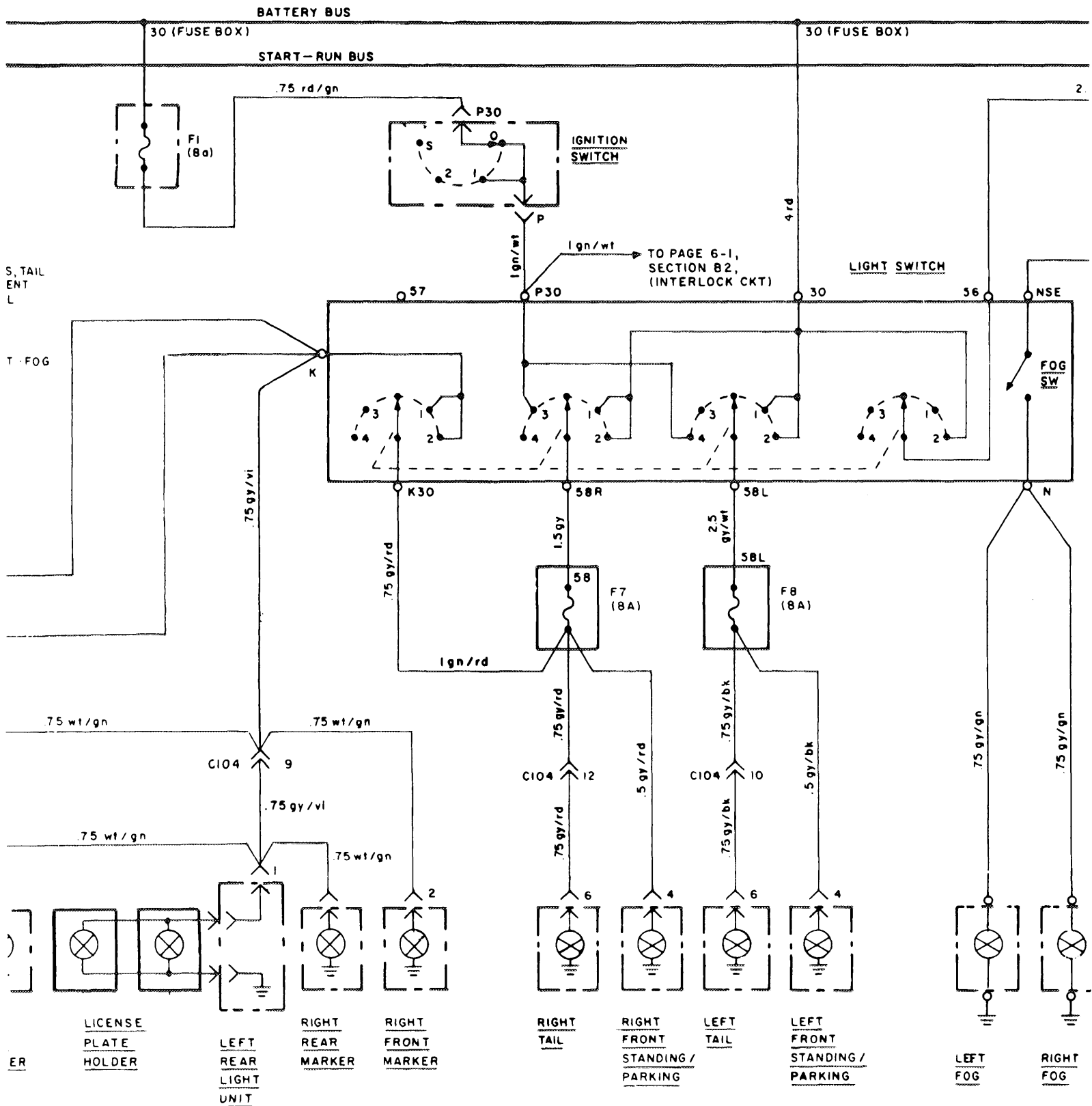


AC /INST. CLUSTER/ASH TRAY LIGHTS

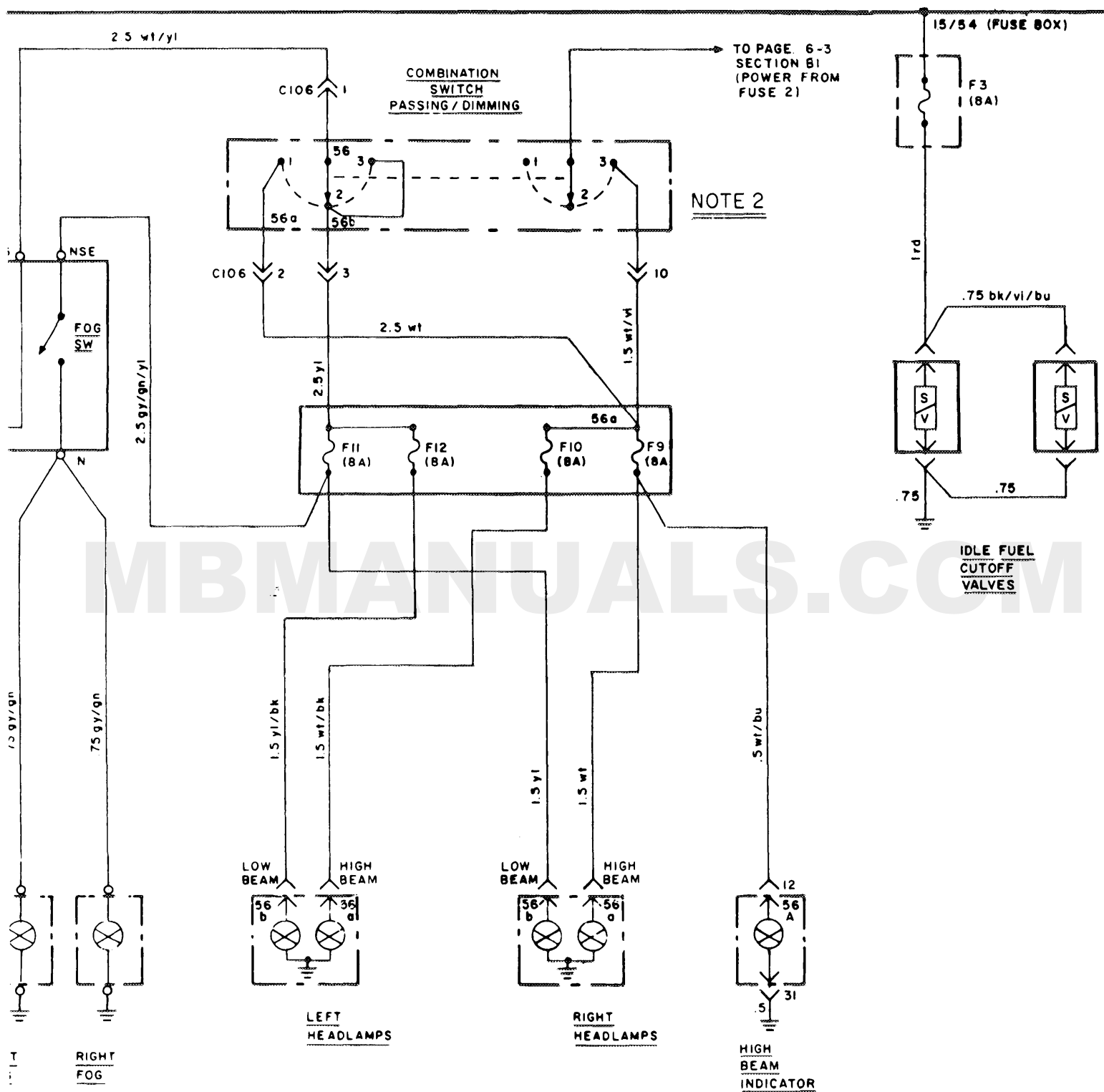


NOTE 1: THERE ARE 5 INSTRUMENT CLUSTER BULBS IN PARALLEL

LIGHT SWITCH



NOTE 2: POSITION 1 - HIG
POSITION 2 - LC
POSITION 3 - HI



IDLE FUEL CUTOFF VALVES

POSITION 1 - HIGH BEAM
 POSITION 2 - LOW BEAM
 POSITION 3 - HIGH BEAM FLASH

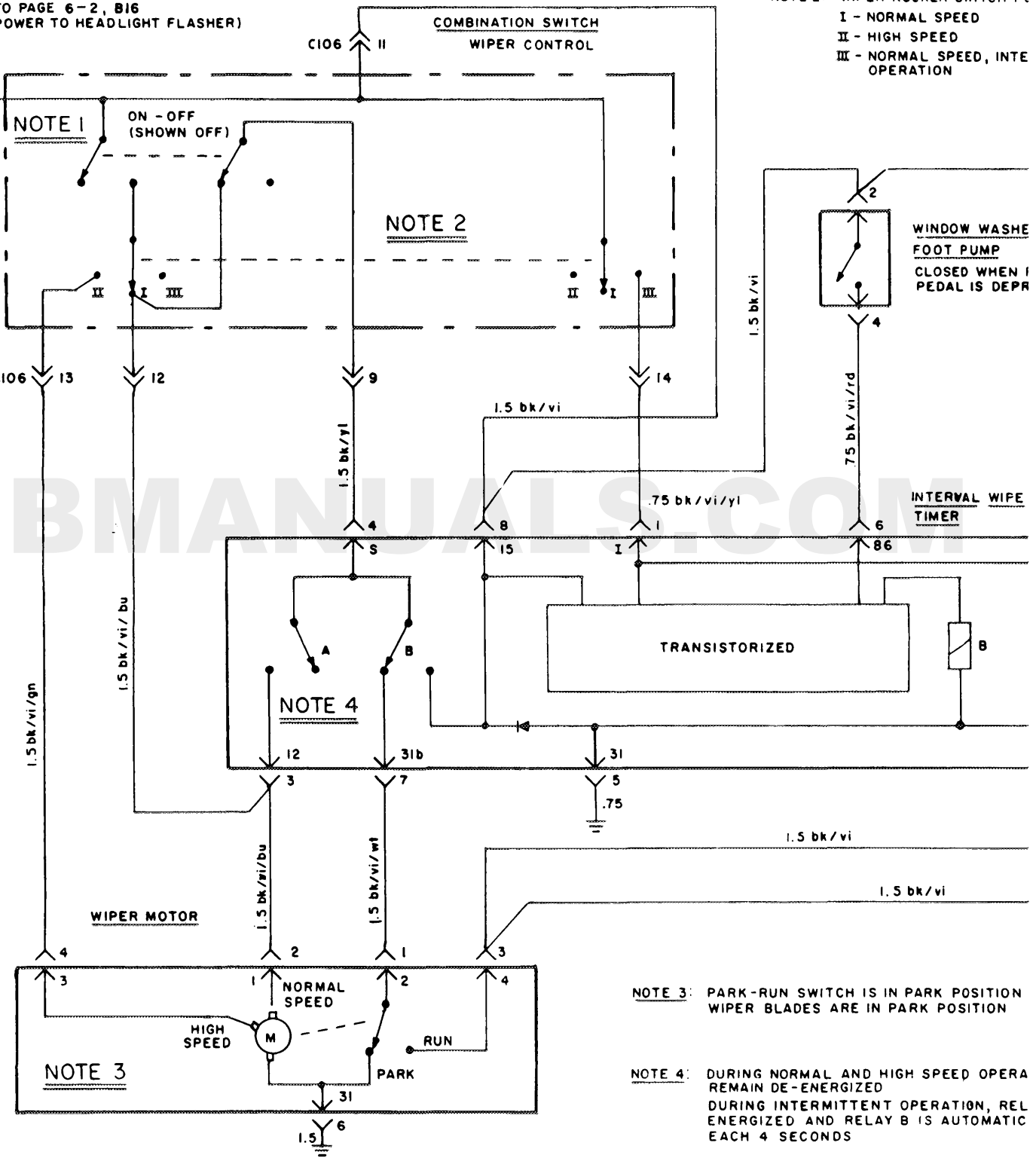
WINDSHIELD WIPER / WASHER

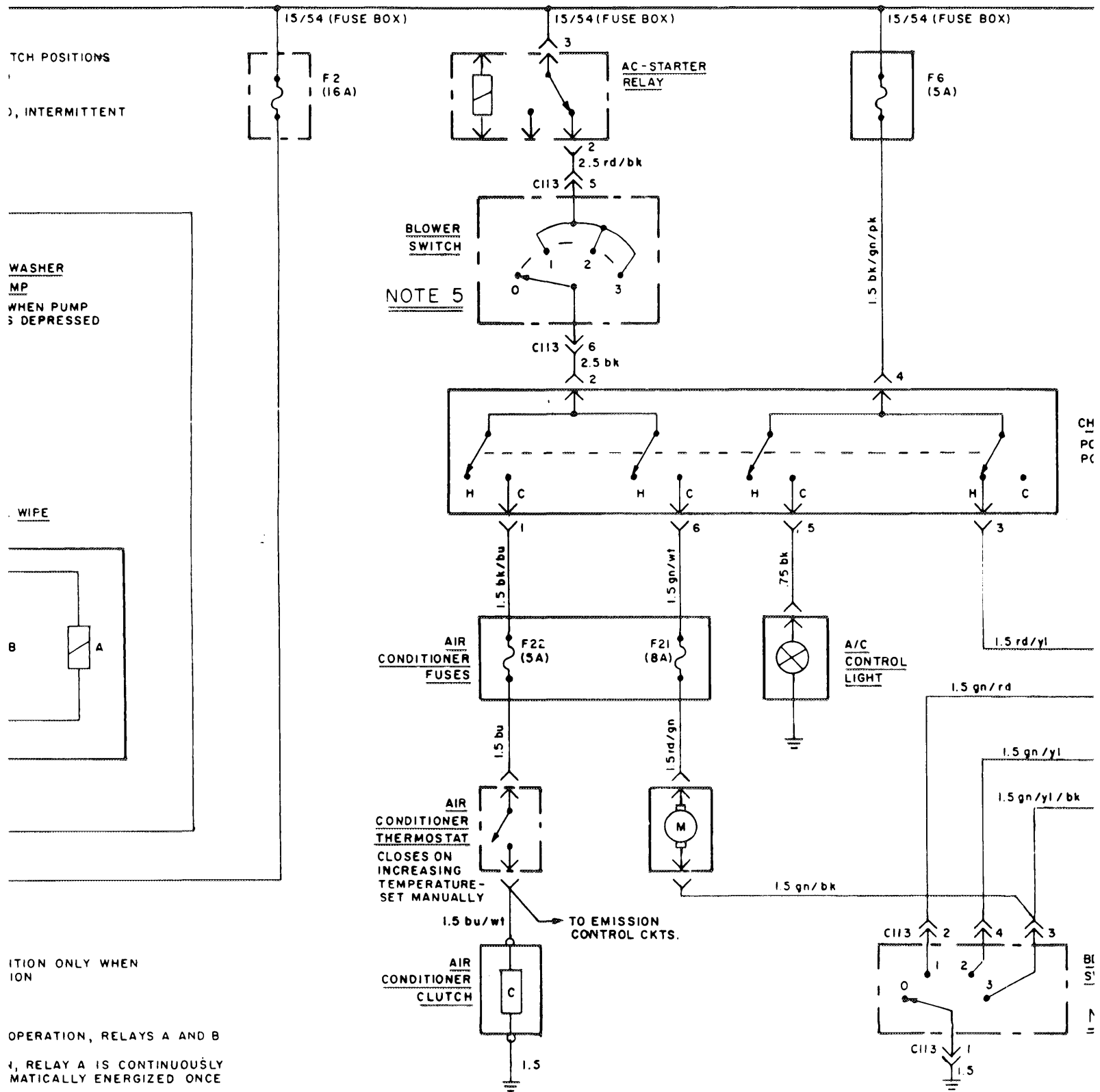
BATTERY BUS

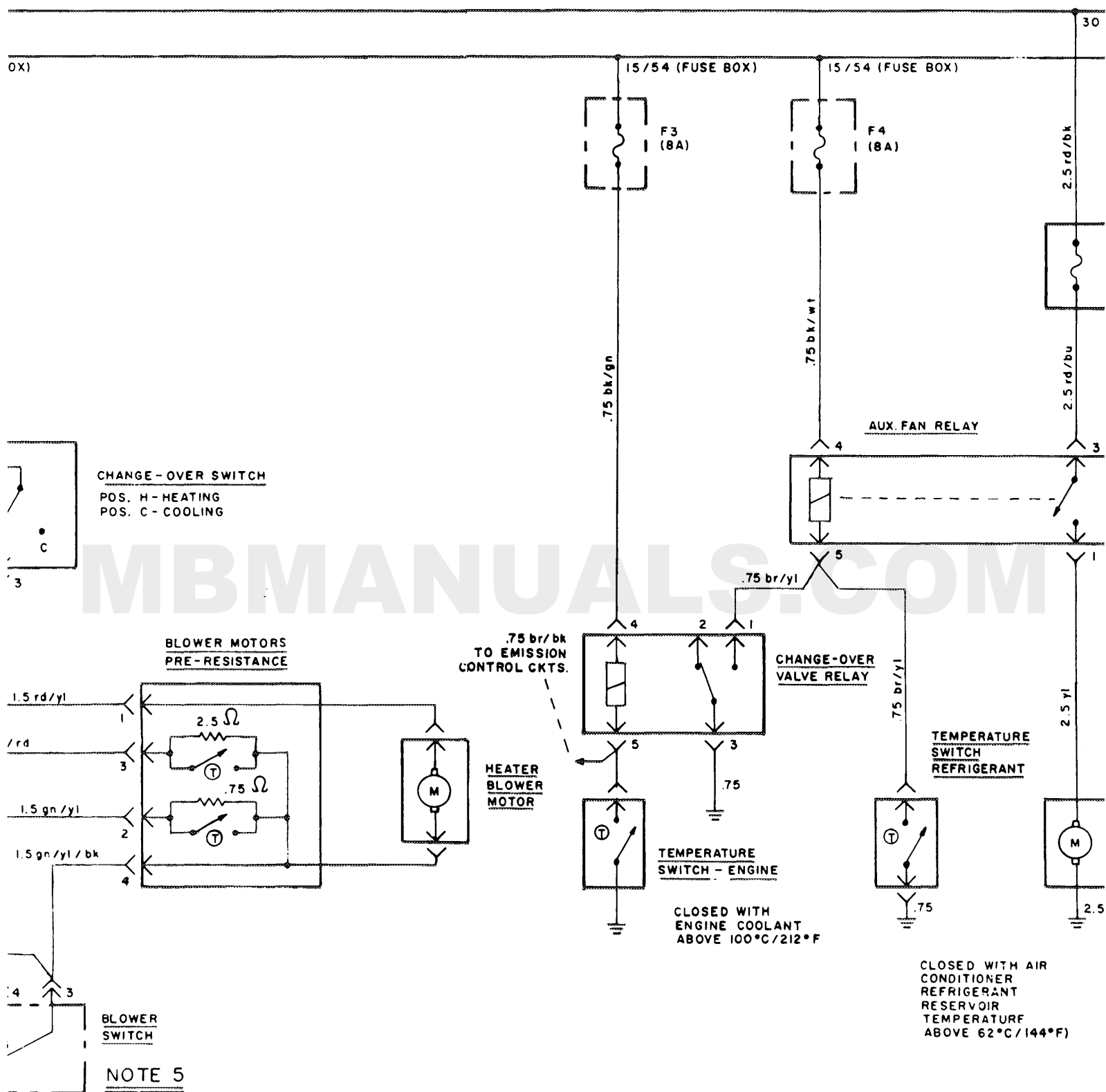
START-RUN BUS

NOTE 1: TO PAGE 6-2, B16
(POWER TO HEADLIGHT FLASHER)

NOTE 2: WIPER ROCKER SWITCH
I - NORMAL SPEED
II - HIGH SPEED
III - NORMAL SPEED, INTERMITTENT OPERATION







13

14

15

16

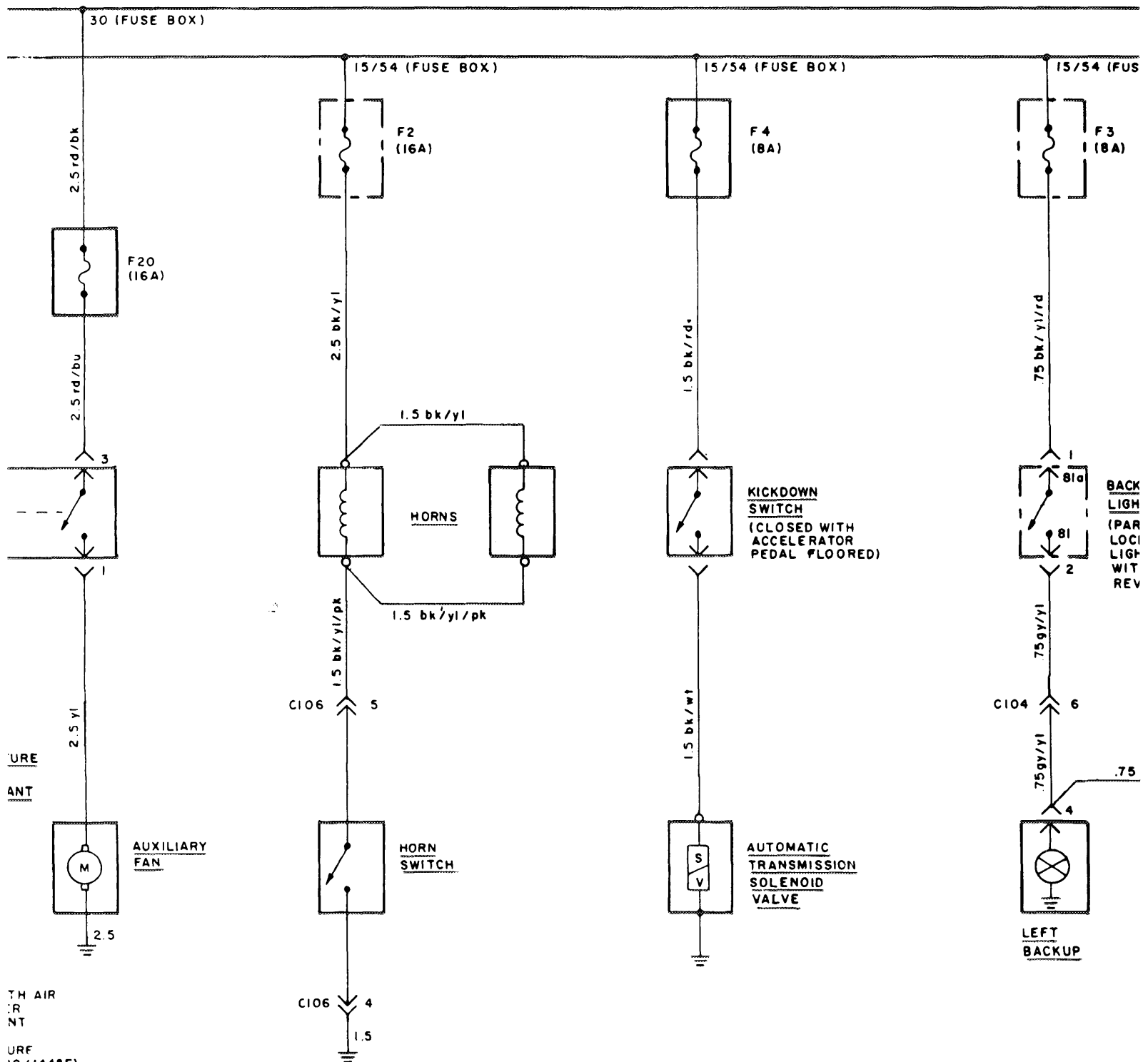
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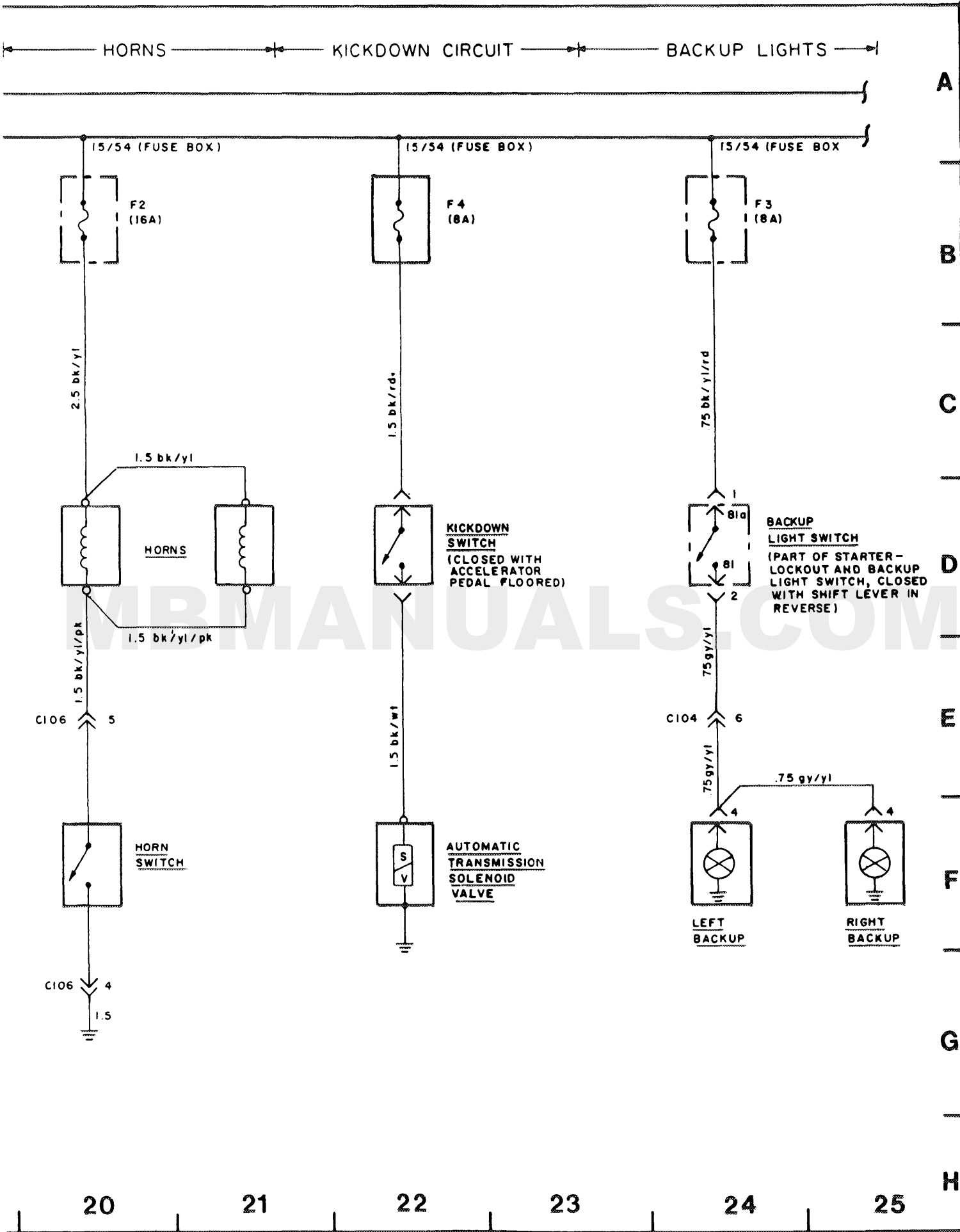
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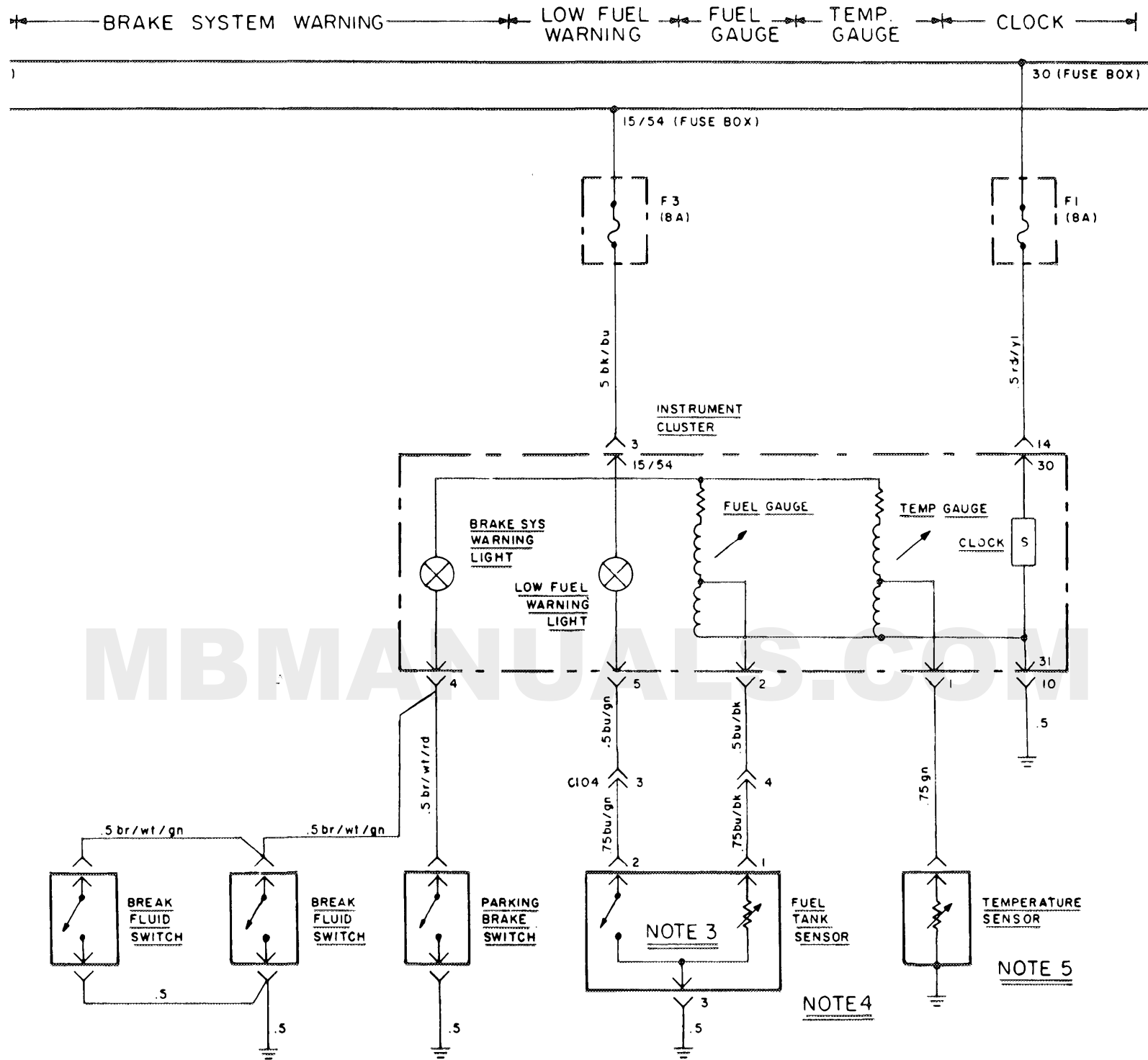
HORNS

KICKDOWN CIRCUIT

BACKUP LIGHT

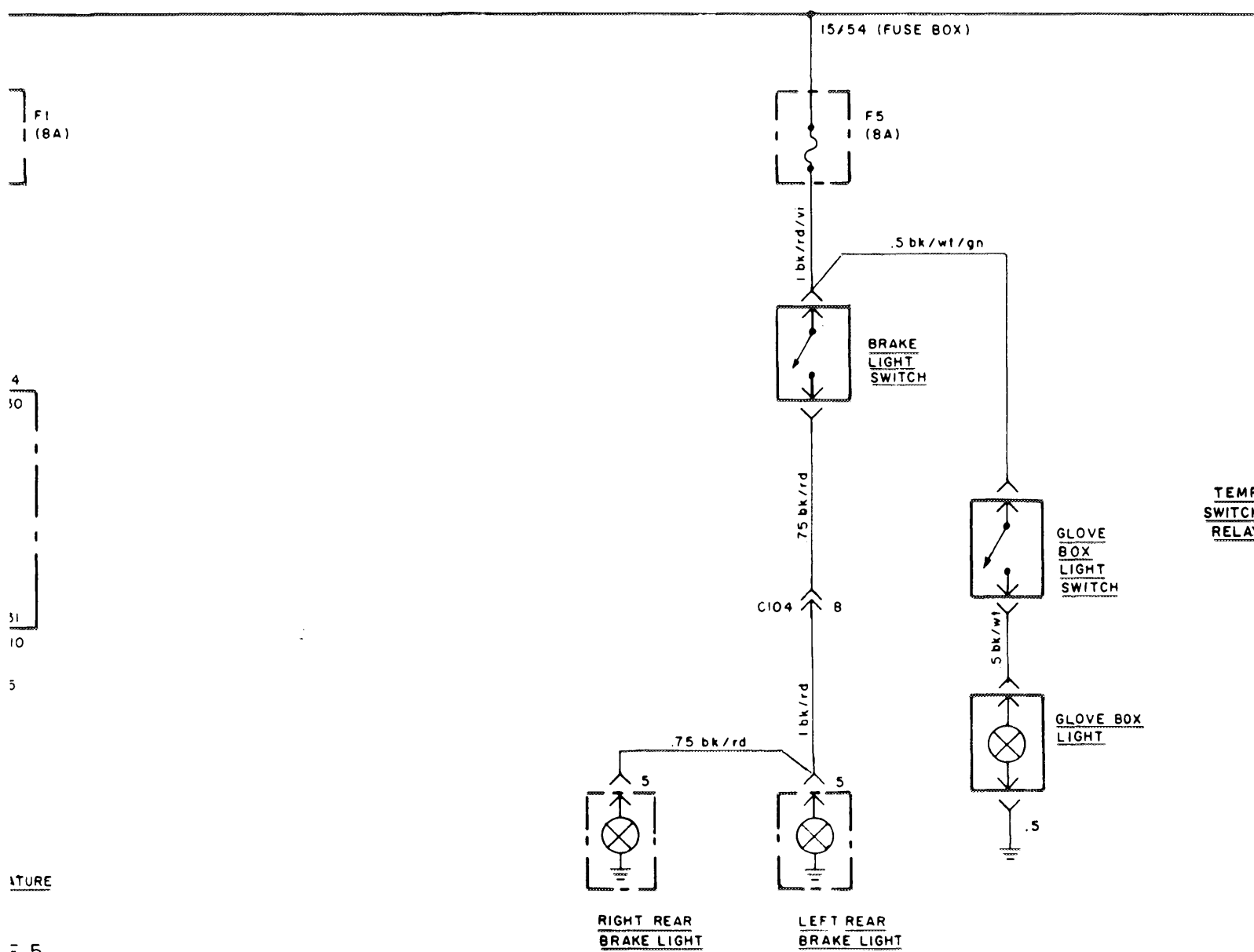






CK ————— |————— BRAKE-STOP ————— |————— GLOVE BOX —————

0 (FUSE BOX)



F1
(8A)

4
10
31
10
5

ATURE

5

TEMP
SWITCH
RELAY

NO

RESISTANCE AT 60°F - 420 Ω
AND AT 180°F - 65 Ω

13

14

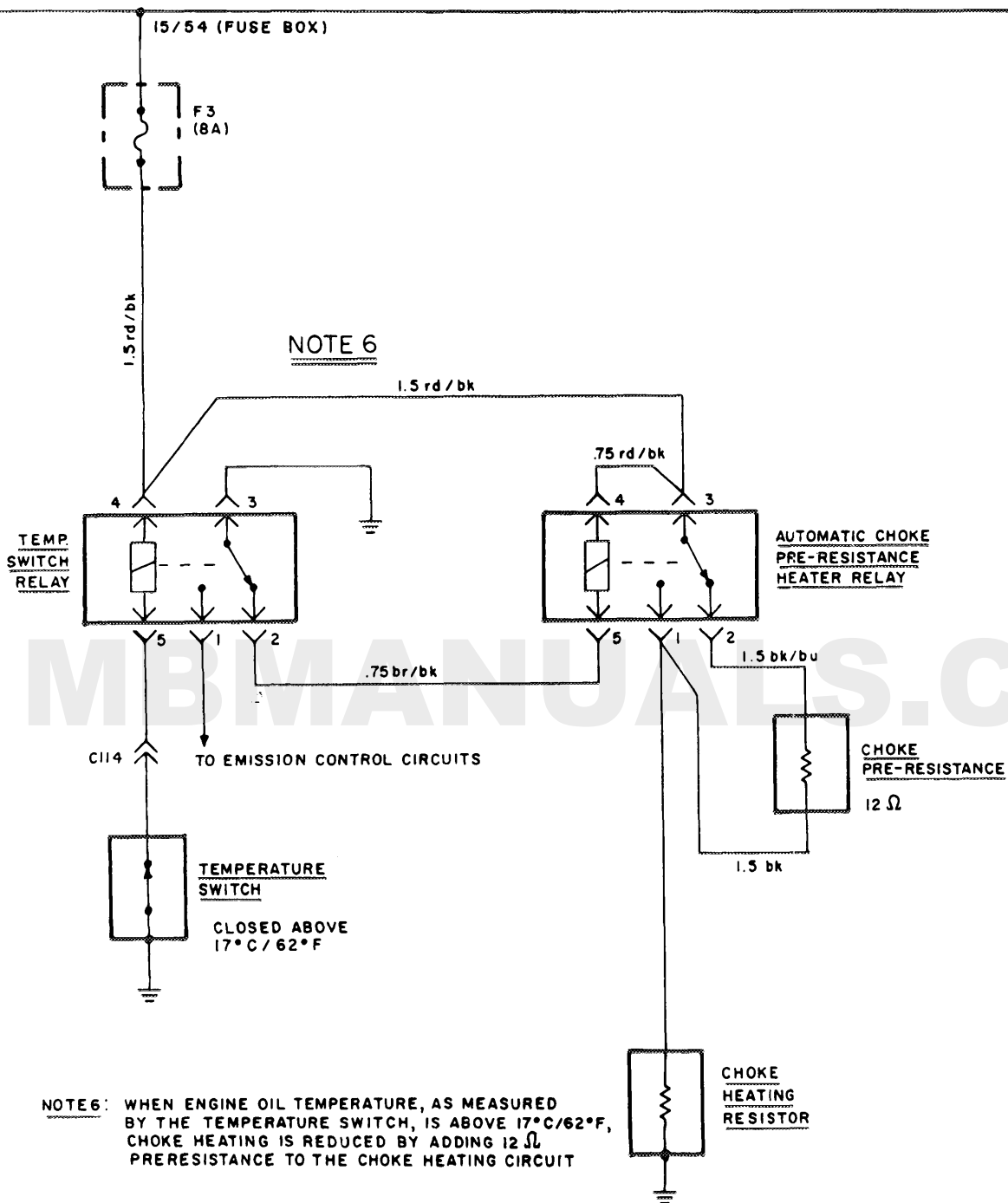
15

16

17

18

CHOKE HEATER



CHOKE HEATER

A

B

C

D

E

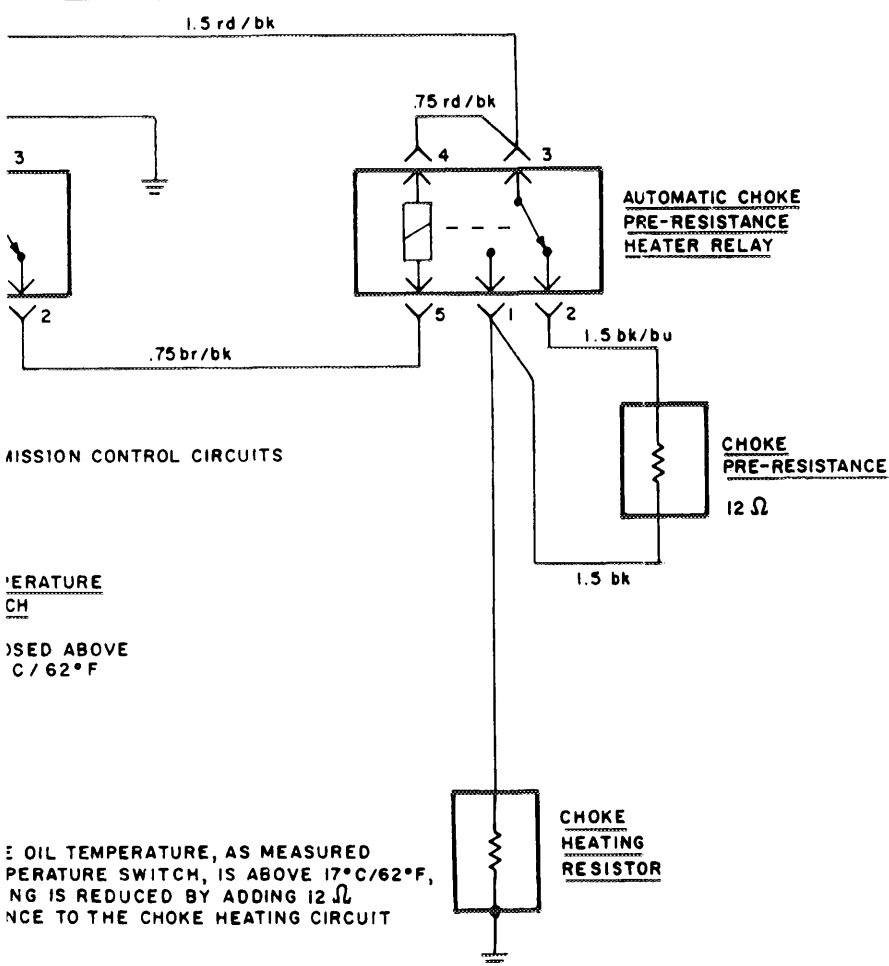
F

G

H

(SEE BOX)

NOTE 6



20

21

22

23

24

25

ELECTRIC WINDOWS

A

BATTERY BUS

START-RUN BUS

B

WINDOW
RELAY
KEY 10

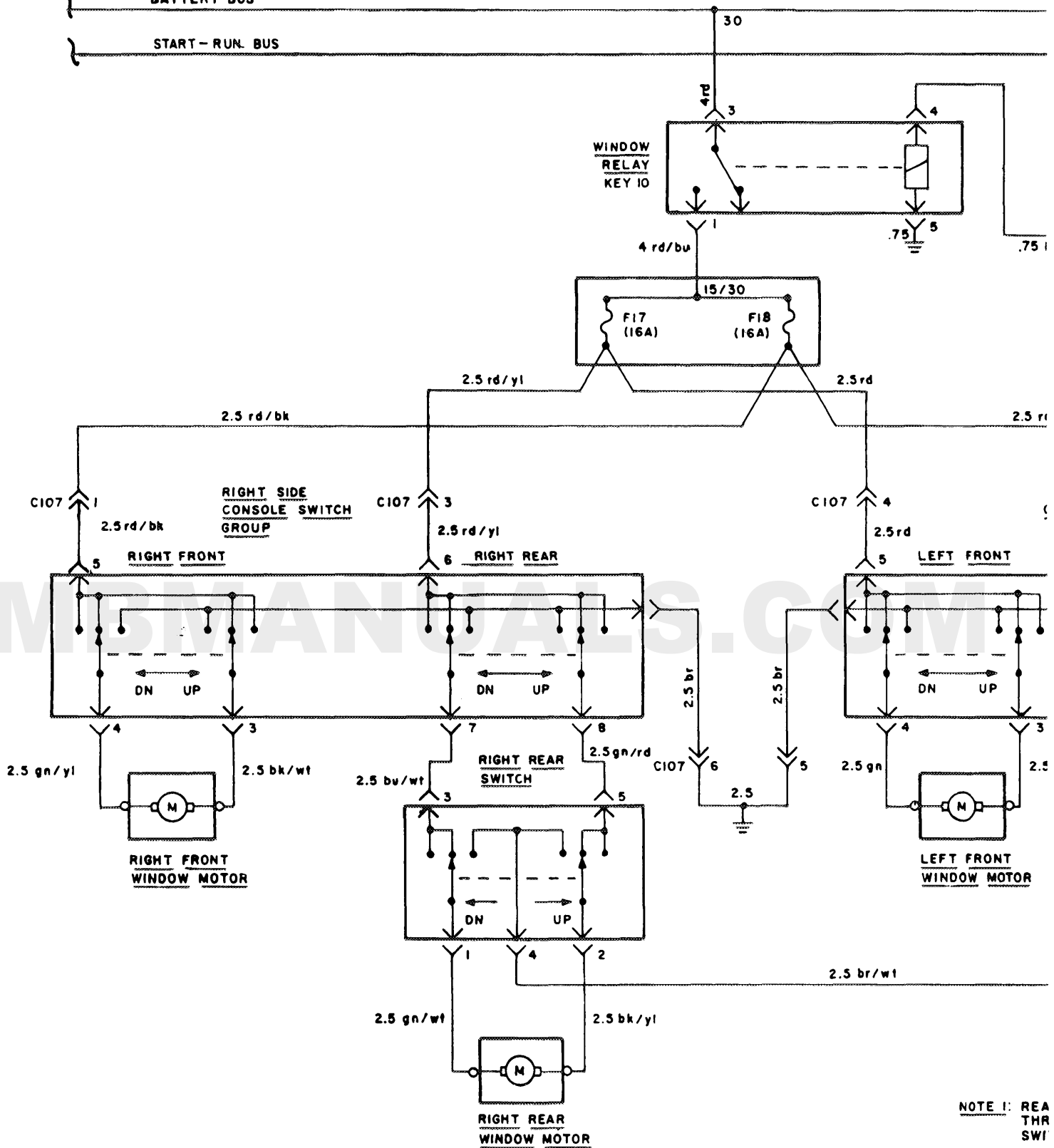
C

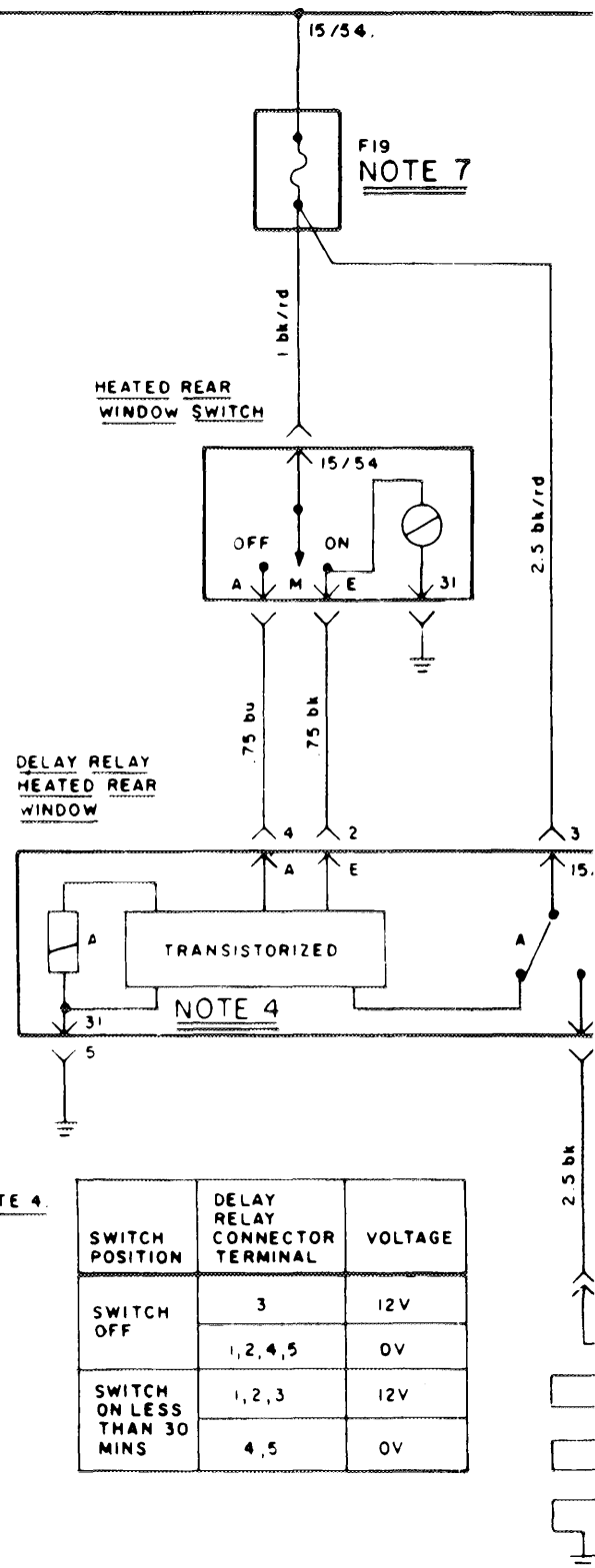
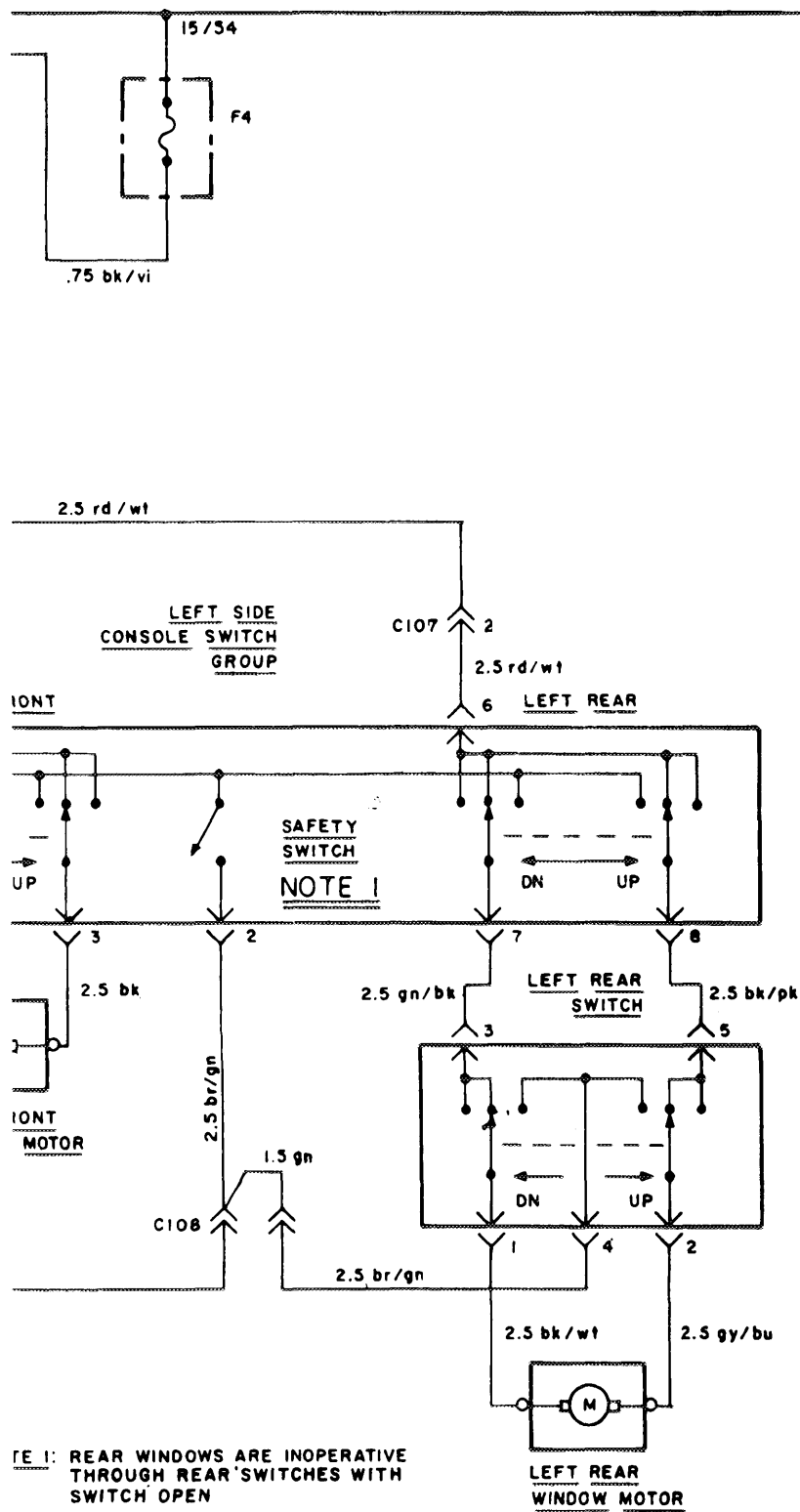
E

F

G

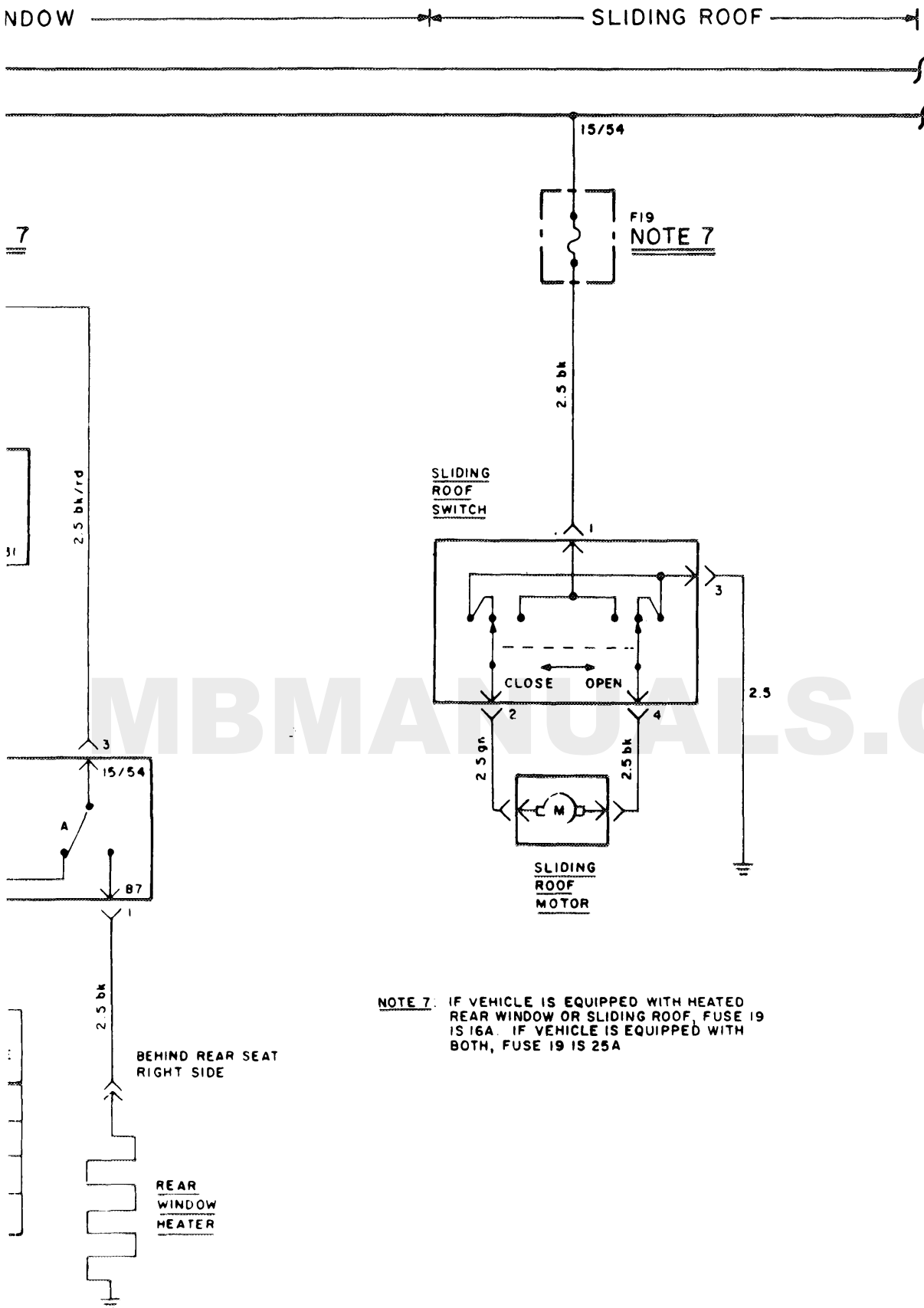
H



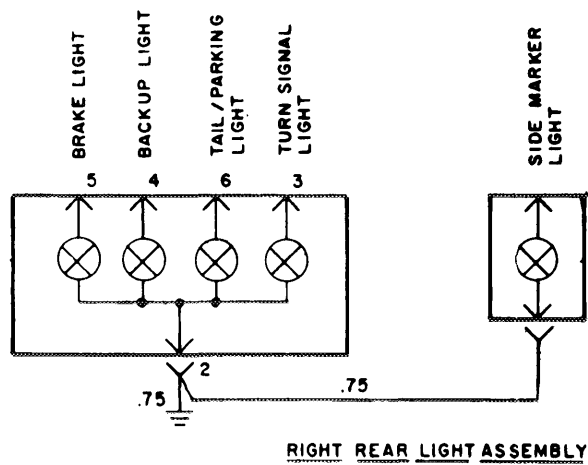
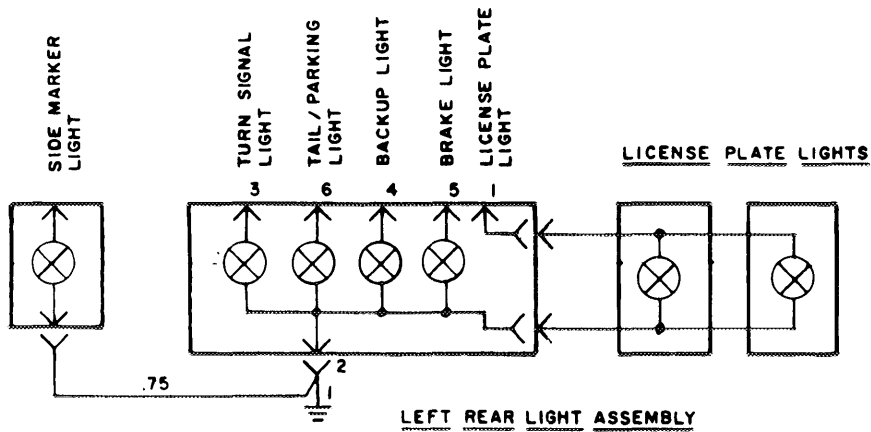
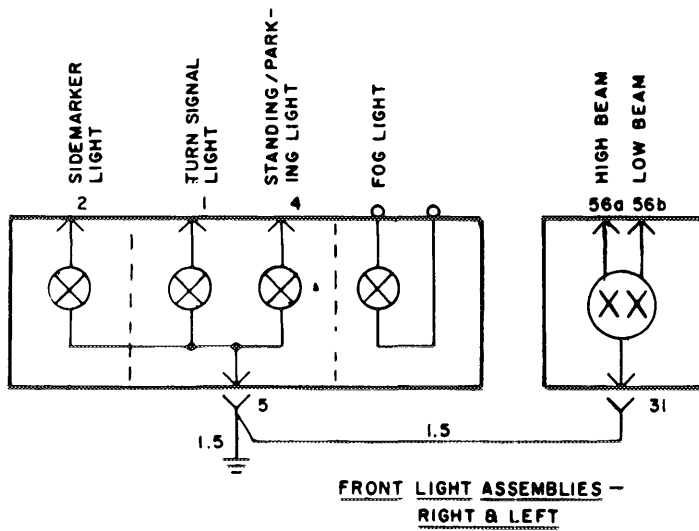


NOTE 4

SWITCH POSITION	DELAY RELAY CONNECTOR TERMINAL	VOLTAGE
SWITCH OFF	3	12V
	1,2,4,5	0V
SWITCH ON LESS THAN 30 MINS	1,2,3	12V
	4,5	0V



SPECIAL GROUNDING CIRCUITS



280/280C

COMPONENT	COMPONENT LOCATION ON VEHICLE	COMPONENT LOCATION PHOTOGRAPH	COMPONENT TERMINAL PHOTOGRAPH
AIR CONDITIONING/ HEATING			
A/C blower motor	center of console	3-1	
A/C clutch	front of compressor		
A/C control light	console	3-2	
A/C starter relay, key 4	under dash—pass. side	3-3	3-37
A/C thermostat	console	3-2	
Blower switch	console	3-2	
Change-over switch	console, left side	3-27	
Fuse 6	fuse box	3-4	3-48
Fuse 21 (A/C blower)	firewall—right side		
Fuse 22 (clutch)	firewall—right side		
Heater blower motor	behind A/C blower		
Heater blower motor pre-resistor	left firewall	3-4	
C 113	mounted to heater control lever plate	3-6	3-32
AUXILIARY FAN			
Auxiliary fan	front of radiator	3-7	
Auxiliary fan relay, key 6	under dash—pass. side	3-3	3-37
Separation relay, key 8	under dash—pass. side	3-3	3-37
Fuse 3	fuse box	3-4	3-48
Fuse 4	fuse box	3-4	3-48
Fuse 20 (aux. fan)	firewall—right side		
Temp. sw.—engine (100°C/212°F)	engine block—right side	3-8	
Temp. sw.—refrigerant (65°C/144°F)	right firewall	3-9	
CHARGE			
Alternator	below A/C compressor		
Regulator	back of alt.	3-10	
Charge indicator light	inst. cluster		
CHOKE HEATING			
Automatic choke pre-resistance heater relay	front left fender	3-11	3-37
Choke heating resistor	carburetor	3-12	
Choke pre-resistance	front left fender	3-11	
Fuse 3	fuse box	3-4	3-48
Temperature switch	oil filter housing		
Temp. sw. (17°C/63°F)	front left fender	3-11	3-37
C 114	clipped to front left fender seam	3-13	
CIGAR LIGHTER			
Cigar lighter	console	3-2	
Fuse 2	fuse box	3-4	3-48

280/280C

COMPONENT	COMPONENT LOCATION ON VEHICLE	COMPONENT LOCATION PHOTOGRAPH	COMPONENT TERMINAL PHOTOGRAPH
CLOCK			
Clock	inst. cluster	3-10	
Fuse 1	fuse box	3-4	3-48
FUEL GAUGE			
Fuel gauge	inst. cluster	3-10	
Fuel tank sensor	below trunk floor	3-14	
Fuse 5	fuse box	3-4	3-48
C 104	under dash—driver's side	3-15	
HEATED REAR WINDOW			
Time delay relay	under dash—driver's side	3-15	3-44
Fuse 19 (window)	firewall—right side		
Heater	rear window		
Switch	console	3-2	
C 112	behind rear seat—right side	3-16	
HORNS			
Horn switch			
Horns			
Fuse 2	fuse box	3-4	3-48
C 106	under dash—driver's side	3-15	3-35
IDLE FUEL CUTOFF			
Cutoff valves	carburetor	3-17	
Fuse 3	fuse box	3-4	3-48
IGNITION SWITCH			
A/C starter relay, key 4	under dash—pass. side	3-3	3-37
Seat belt-starter logic	under dash—driver's side	3-15	3-39
Starter lockout switch	left side transmission		
Switch	dash		3-41
IGNITION SYSTEM			
Coil	front left fender	3-11	
Distributor	front left engine		
.4 ohm preresistor	front left fender	3-11	
.6 ohm preresistor	front left fender	3-11	
Transistorized ignition switching unit	front left fender	3-16	
Diagnostic test plug	engine, top, left front		
C 102 (dwell tach conn)	near coil	3-18	
C 105	right front fender	3-24	

280/280C

COMPONENT	COMPONENT LOCATION ON VEHICLE	COMPONENT LOCATION PHOTOGRAPH	COMPONENT TERMINAL PHOTOGRAPH
KICKDOWN			
Fuse 4	fuse box	3-4	3-48
Solenoid	right side transmission		
Switch	below accelerator pedal	3-19	
LIGHT CIRCUITS			
A/C CONTROL			
Change-over switch	console	3-27	
Fuse 6	fuse box	3-4	3-48
Light	console	3-2	
ASH TRAY			
Fuse 7	fuse box	3-4	3-48
Light switch	dash		
BACKUP			
Fuse 3	fuse box	3-4	3-48
Lights	rear light assemblies		
Switch	left side transmission		
C 104	under dash—driver's side	3-15	
BRAKE SYSTEM WARNING			
Fluid switches	fluid reservoir	3-4	
Fuse 5	fuse box	3-4	3-48
Parking switch	top, parking brake		
Reservoir & park light	inst. cluster	3-10	
DOME (FRONT)			
Front left door switch	door post		
Front right door switch	door post		
Fuse 1	fuse box	3-4	3-48
C 109	console		
DOME (REAR)			
Fuse 1	fuse box	3-4	3-48
Switch	left dash	3-20	

280/280C

COMPONENT	COMPONENT LOCATION ON VEHICLE	COMPONENT LOCATION PHOTOGRAPH	COMPONENT TERMINAL PHOTOGRAPH
FOG (PERIMETER)			
Fuse 11	fuse box	3-4	3-48
Light switch	dash	3-20	3-43
Pass/dim switch	steering column	3-20	
C 106	under dash—drivers side	3-15	3-35
GEAR SELECTOR LIGHT			
Fuse 7	fuse box	3-4	3-48
Light switch	dash	3-20	3-43
Light	console		
GLOVE BOX			
Fuse 5	fuse box	3-4	3-48
Switch	glove box		
HEAD			
Fuse 9	fuse box	3-4	3-48
Fuse 10	fuse box	3-4	3-48
Fuse 11	fuse box	3-4	3-48
Fuse 12	fuse box	3-4	3-48
High beam indicator	inst. cluster	3-10	
Light switch	dash	3-20	3-43
Pass/dim. switch	steering column	3-20	
C 106	under dash—drivers side	3-15	3-35
INSTRUMENT CLUSTER			
Fuse 7	fuse box	3-4	3-48
Light switch	dash	3-20	3-43
Rheostat	inst. cluster	3-10	
LOW FUEL WARNING			
Fuse 5	fuse box	3-4	3-48
Sender unit	below trunk floor	3-14	
C 104	under dash—drivers side	3-15	3-48
Light	inst. cluster	3-10	
MARKER			
Fuse 7	fuse box	3-4	3-48
Light switch	dash	3-20	3-43
C 104	under dash—drivers side	3-15	

280/280C

COMPONENT	COMPONENT LOCATION ON VEHICLE	COMPONENT LOCATION PHOTOGRAPH	COMPONENT TERMINAL PHOTOGRAPH
STANDING			
Fuse 1	fuse box	3-4	3-48
Fuse 7	fuse box	3-4	3-48
Fuse 8	fuse box	3-4	3-48
Ignition switch	dash		
Light switch	dash	3-20	
STOP			
Fuse 3	fuse box	3-4	3-48
Switch	above brake pedal		
C 104	under dash—drivers side	3-15	
TAIL			
Fuse 1	fuse box	3-4	3-48
Fuse 7	fuse box	3-4	3-48
Fuse 8	fuse box	3-4	3-48
Ignition	dash		
Switch	dash	3-20	3-43
C 104	under dash—drivers side	3-15	
TRUNK			
Fuse 1	fuse box	3-4	3-48
C 104	under dash—drivers side	3-15	
RADIO			
Antenna			
Fuse 13 (power antenna)	left fender		
Ignition switch	dash		
Radio	console		
Fuse 14 (radio)	left fender		
SEAT BELT INTERLOCK			
A/C starter relay key 4	under dash—pass. side	3-3	3-37
Door switch	left front door—lower		
Driver's buckle switch	buckle		
Driver's seat switch	seat		
Fasten seat belt light	dash	3-2	
Ignition switch	dash		
Ignition warning switch	ignition switch		3-42
Logic relay	under dash—driver's side	3-15	3-39
Passenger buckle switch	buckle		
Passenger seat switch	seat		
Starter lockout switch	left side transmission		
Warning buzzer	under dash—drivers side	3-15	3-45

280/280C

COMPONENT	COMPONENT LOCATION ON VEHICLE	COMPONENT LOCATION PHOTOGRAPH	COMPONENT TERMINAL PHOTOGRAPH
SLIDING ROOF			
Fuse 19			
Motor	behind spare tire		
Switch	console	3-2	
START			
A/C starter relay key 4	under dash—pass. side	3-3	3-37
Battery			
Motor			
TEMPERATURE GAUGE			
Fuse 5	fuse box	3-4	3-48
Sensor	right side engine	3-8	
TURN SIGNAL AND FLASHER			
Flasher relay	under dash—drivers side	3-15	
Flasher switch	console	3-2	3-46
Fuse 1	fuse box	3-4	3-48
Fuse 4	fuse box	3-4	3-48
Turn signal switch	steering column	3-20	
C 104	under dash—drivers side	3-15	
C 106	under dash—drivers side	3-15	3-35
WINDOWS			
Fuse 4	fuse box	3-4	3-48
Fuse 17 (FL/RR)	firewall—right side		
Fuse 18 (FR/RL)	firewall—right side		
Left front motor	door		
Left rear motor	door		
Left rear switch	side panel		
Left side switch group	console		3-38
Relay key 10	under dash—pass. side	3-3	3-37
Right front motor	door		
Right rear motor	door		
Right rear switch	side panel		
Right side switch group	console		3-38
C 107	console		
C 108	console		

280/280C

COMPONENT	COMPONENT LOCATION ON VEHICLE	COMPONENT LOCATION PHOTOGRAPH	COMPONENT TERMINAL PHOTOGRAPH
WINDSHIELD WIPER/WASHER			
Combination switch	steering column	3-20	
Foot pump switch	left floor	3-5	
Fuse 2	fuse box	3-4	3-48
Interval wipe timer	under dash—drivers side	3-15	3-40
Motor	firewall—left side	3-4	
C 106	under dash—drivers side	3-15	3-35

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SECTION III - COMPONENT LOCATION AND TERMINAL PHOTOGRAPHS

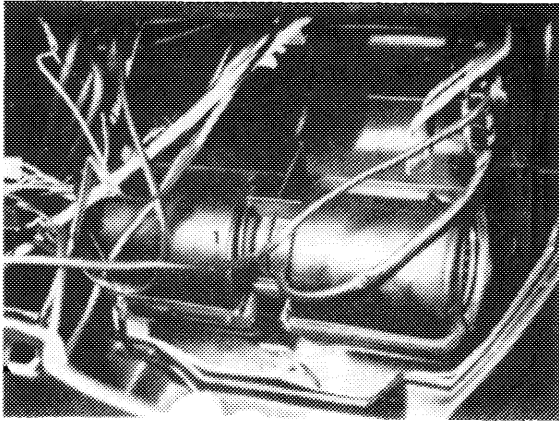


Fig. 3-1
1 — Blower motor

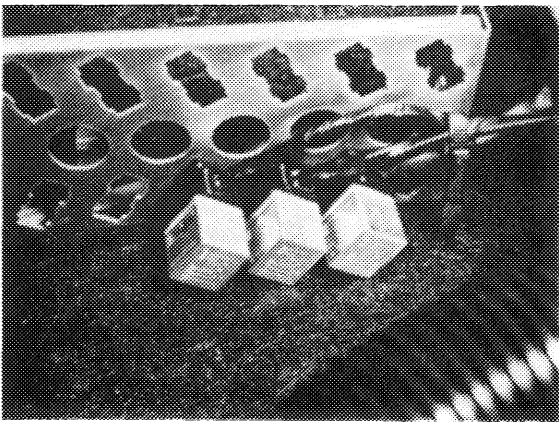


Fig 3-3
Relay location

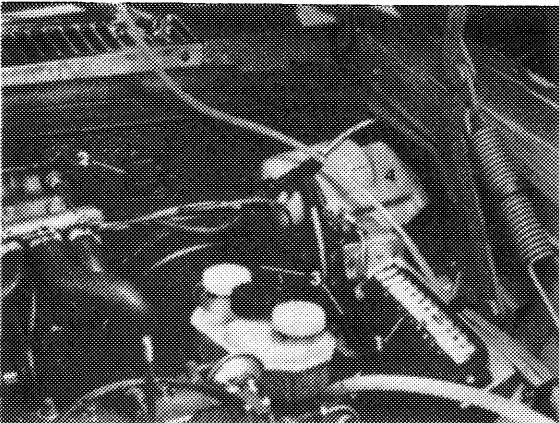


Fig 3-4
1 — Main fuse box
2 — Heater blower pre-resistors
3 — Brake fluid switches
4 — Wiper motor

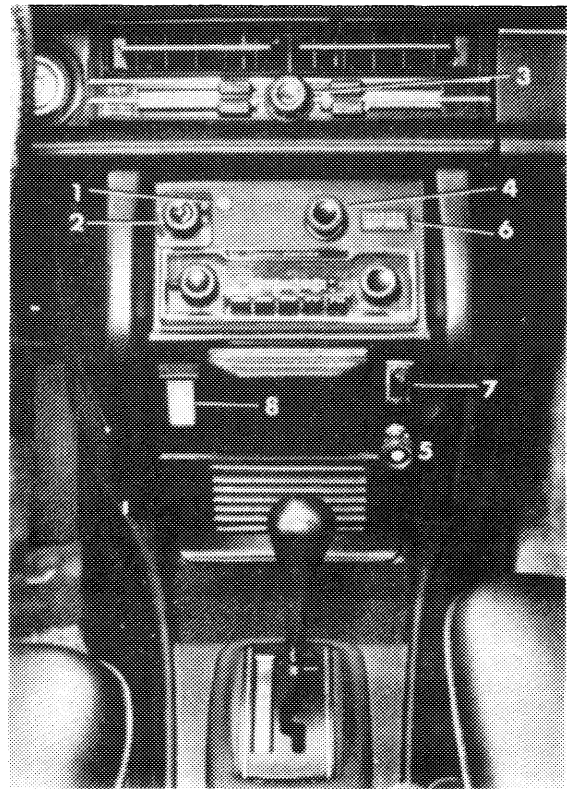


Fig. 3-2
1 — A/C control light
2 — A/C thermostat
3 — Blower switch
4 — Cigar lighter
5 — Heated rear window switch
6 — Fasten seat belt light
7 — Sliding roof switch
8 — Flasher switch

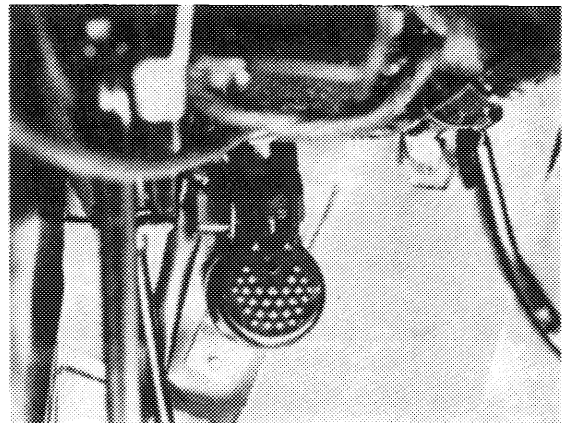


Fig. 3-5
1 — Foot pump switch

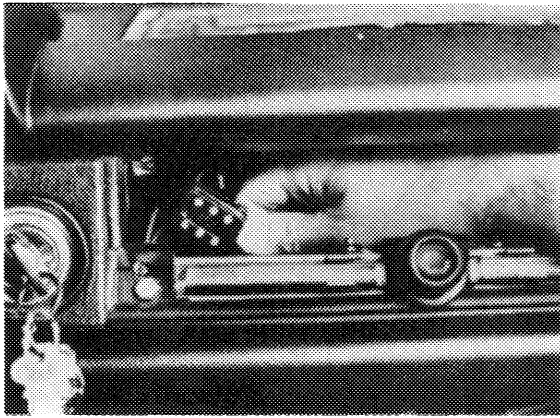


Fig. 3-6
1 — C 113

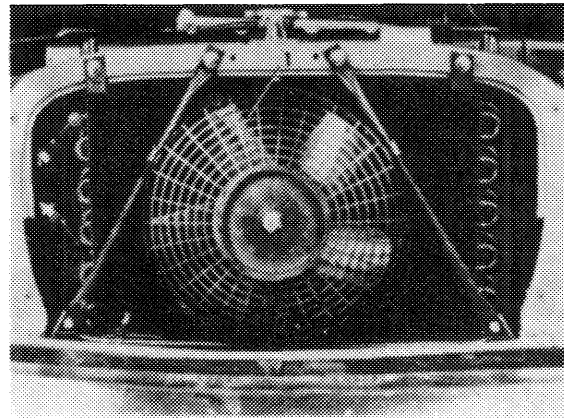


Fig. 3-7
1 — Auxiliary fan

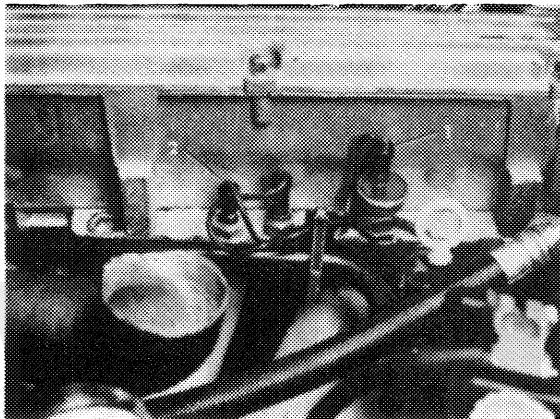


Fig. 3-8
1 — Temperature switch, engine
2 — Temperature gauge sensor

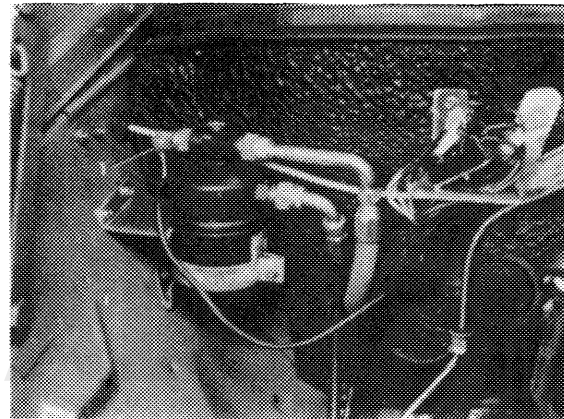


Fig. 3-9
1 — Temperature switch, refrigerant

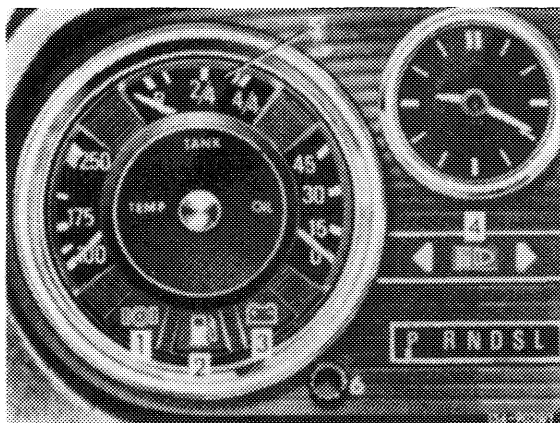


Fig. 3-10
1 — Reservoir and park brake light
2 — Low fuel warning light
3 — Charge indicator light
4 — High beam indicator
5 — Fuel gauge
6 — Instrument lights rheostat

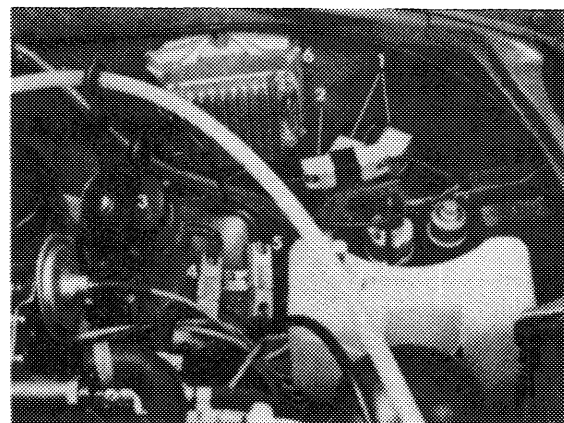


Fig. 3-11
1 — Automatic choke pre-resistance heater relay
(can be located in either position)
1 — Temperature switch relay
(can be located in either position)
2 — choke pre-resistance
3 — Coil
4 — 0.4 ohm pre-resistor
5 — 0.5 ohm pre-resistor
6 — Transistorized ignition switching unit

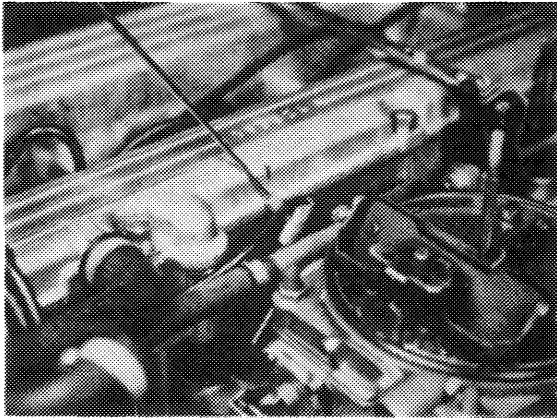


Fig. 3-12
1 — Choke heating resistance

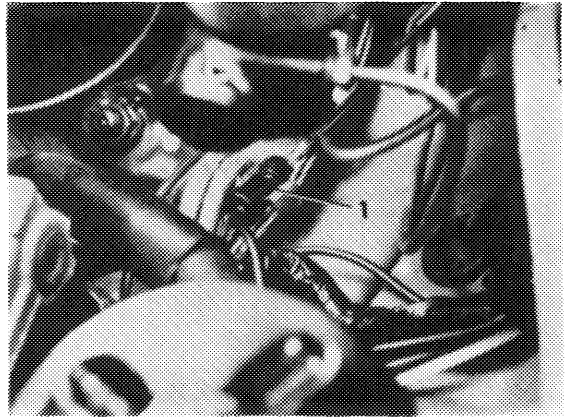


Fig. 3-13
1 — C 114

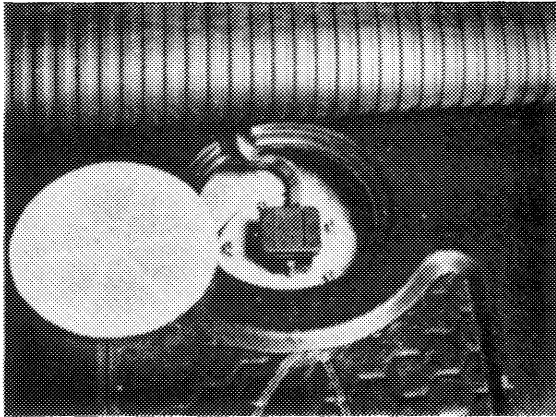


Fig. 3-14
Fuel tank sensor

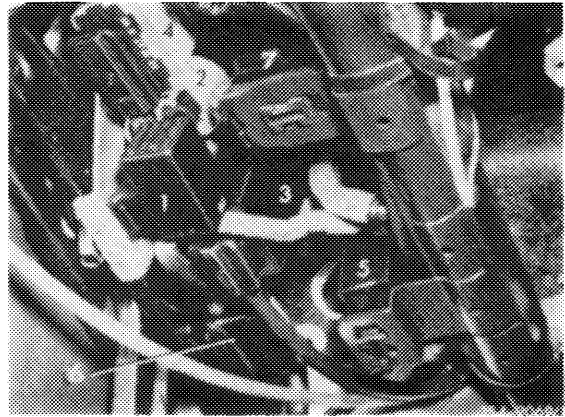


Fig. 3-15
1 — Flasher relay
2 — Warning buzzer
3 — Time delay relay, heated rear window
4 — Logic relay
5 — Interval wipe timer
6 — C 104
7 — C 106

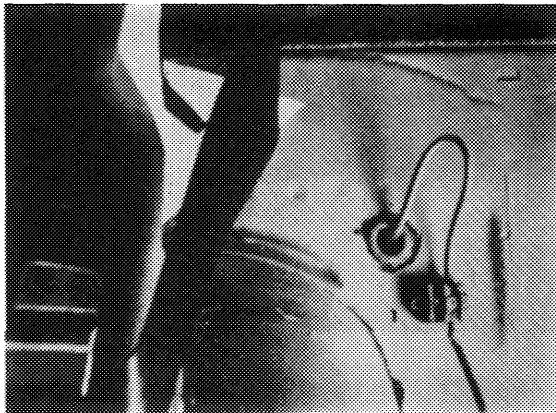


Fig. 3-16
1 — C 112

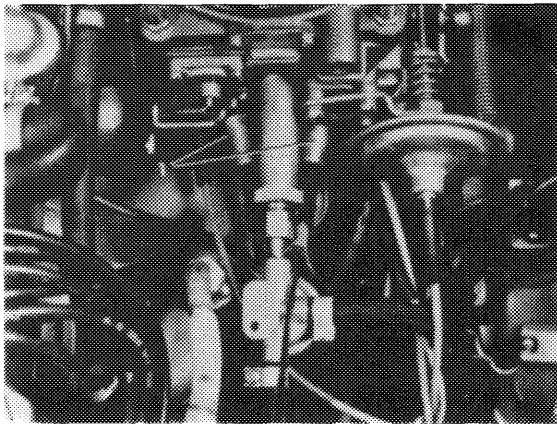


Fig. 3-17
1 — Idle fuel cut off valves

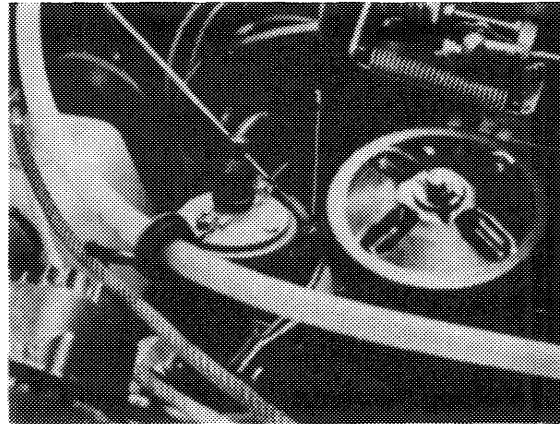


Fig. 3-18
1 — C 102

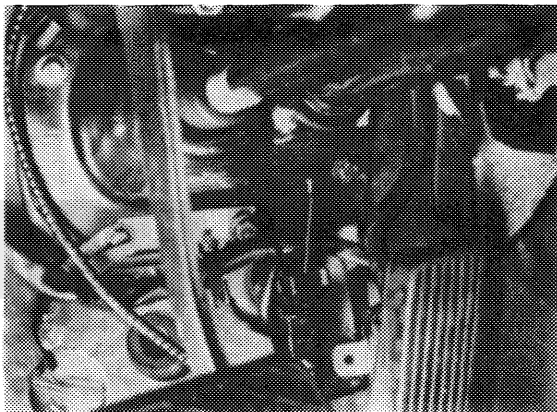


Fig. 3-19
1 — Kickdown switch

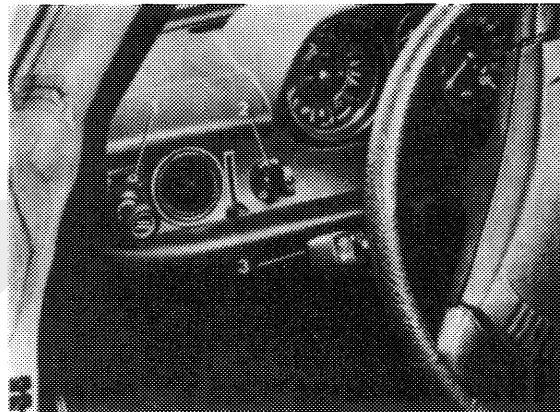


Fig. 3-20
1 — Rear dome light switch
2 — Light switch
3 — Combination switch

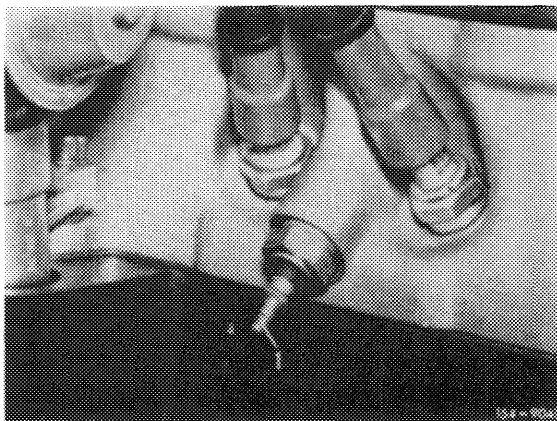


Fig. 3-21
1 — Engine temperature gauge sensor (230)

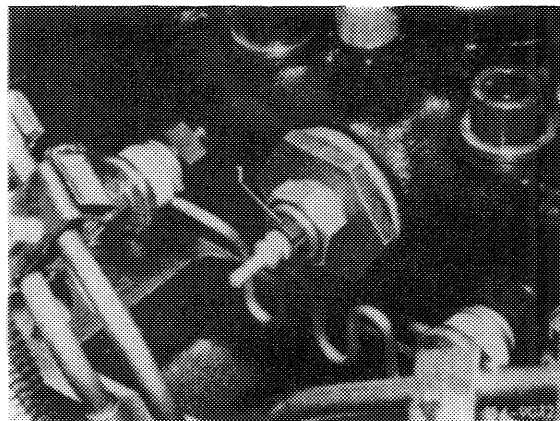


Fig. 3-22
1 — Engine temperature gauge sensor (240D)

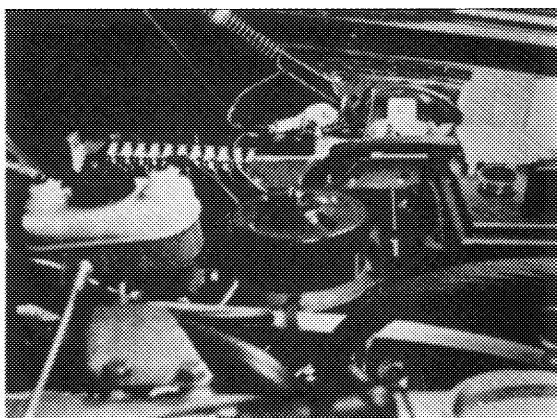


Fig. 3-23
1 — Auxiliary fan relay

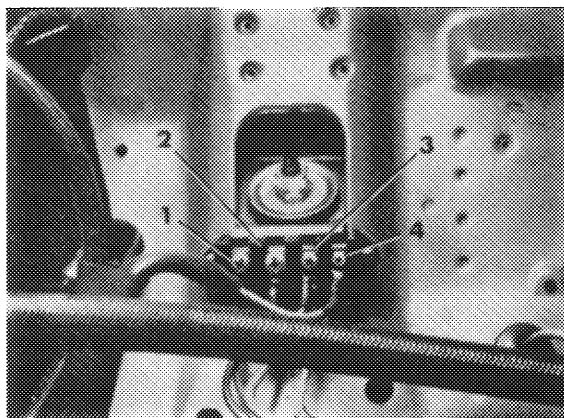


Fig. 3-24
1 — Terminal 1
2 — Terminal 2
3 — Terminal 3
4 — Terminal 4

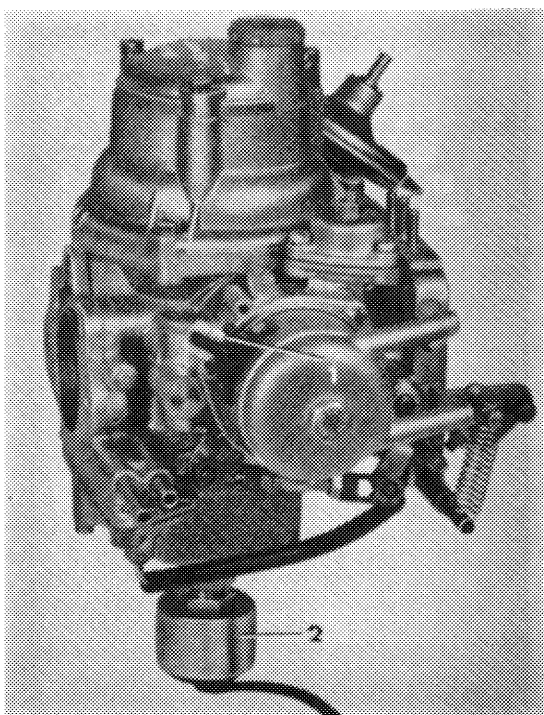


Fig. 3-25
1 — Choke heater
2 — Idle fuel cut off valve

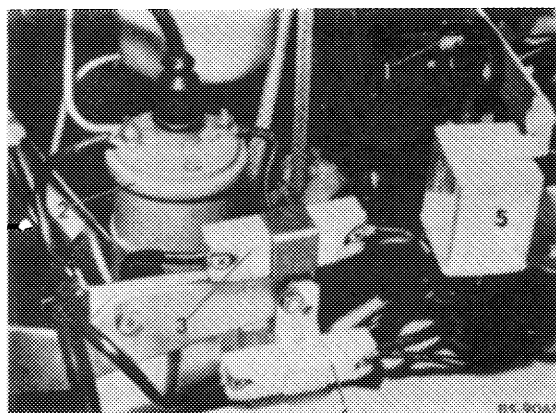


Fig. 3-26
1 — RPM test plug
2 — Ignition coil
3 — 0.4 ohm pre-resistor
4 — 0.6 ohm pre-resistor
5 — Delay relay

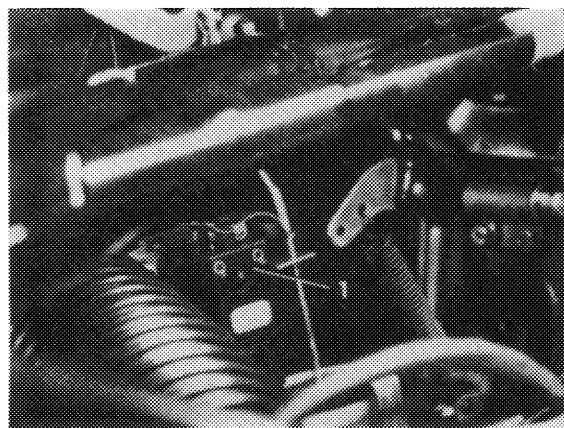


Fig. 3-27
1 — Change over switch

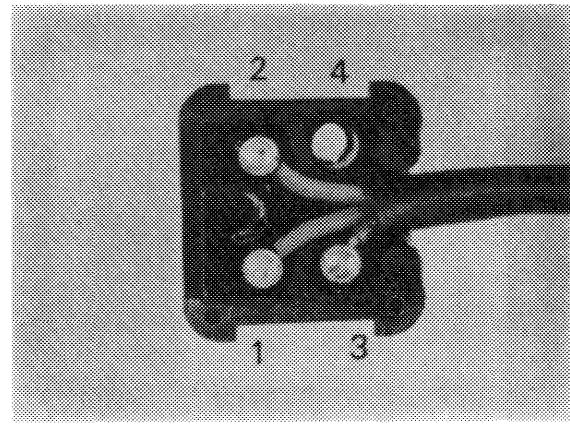
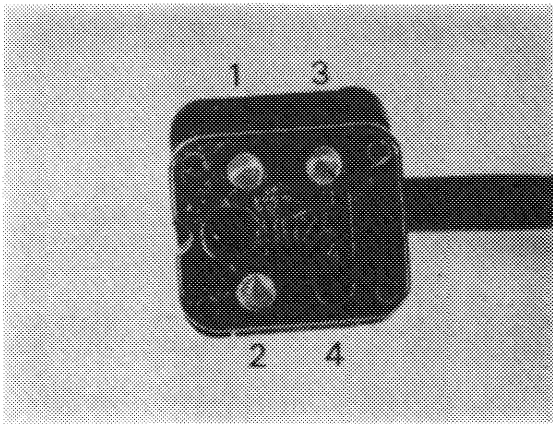


Fig. 3-31
Connector, 4 terminal

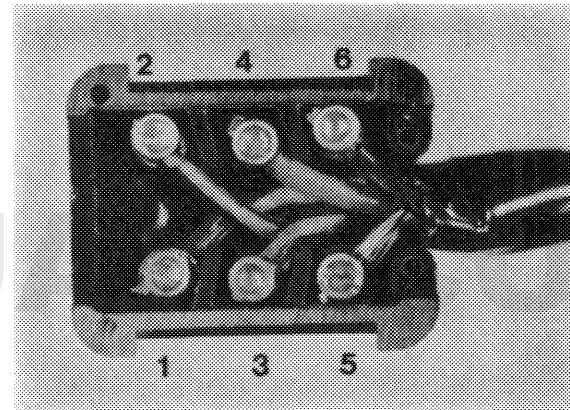
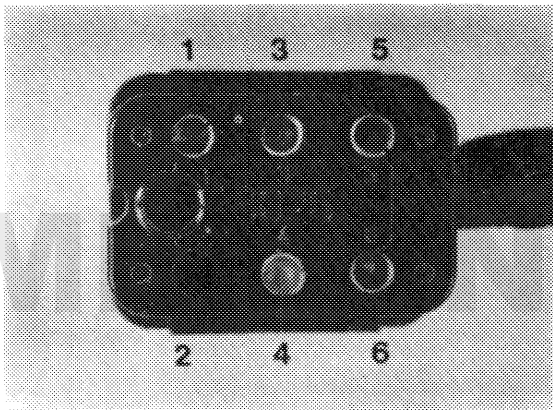


Fig. 3-32
Connector, 6 terminal

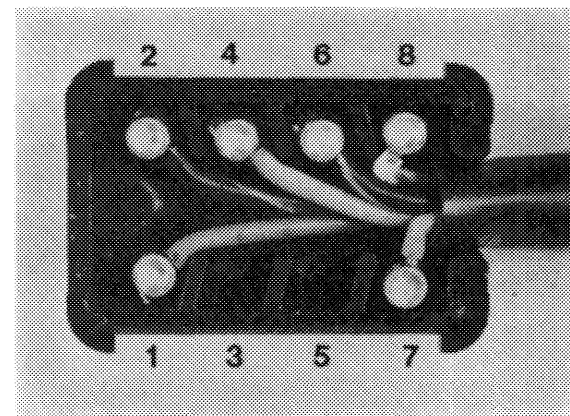
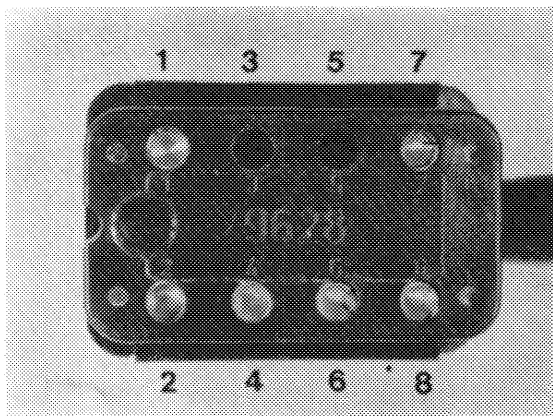


Fig. 3-33
Connector 8 terminal

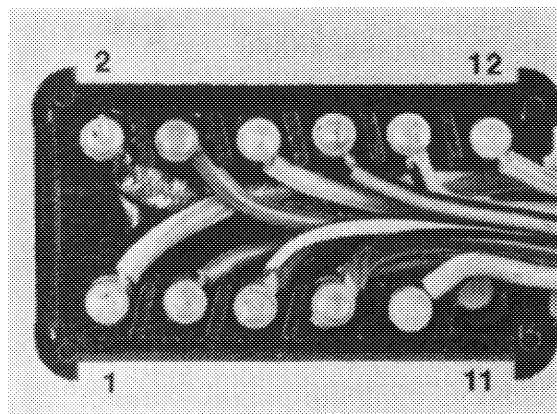
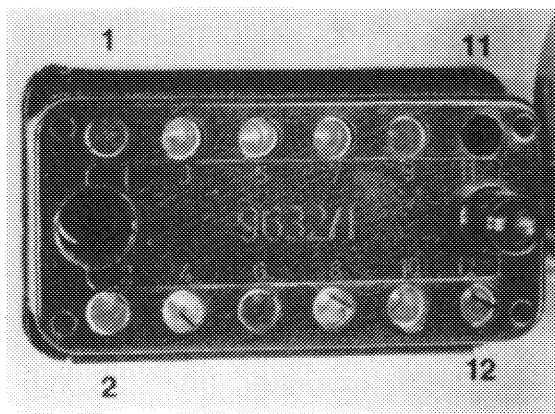


Fig. 3-34
Connector, 12 terminal

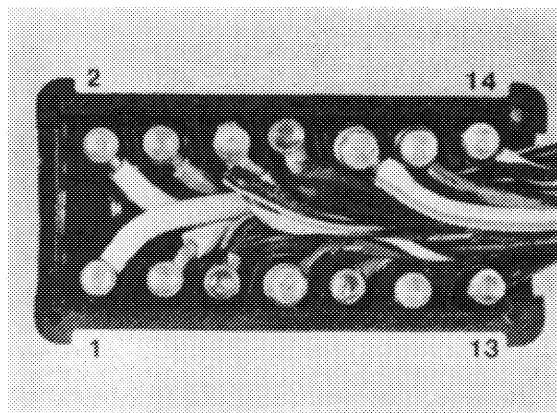
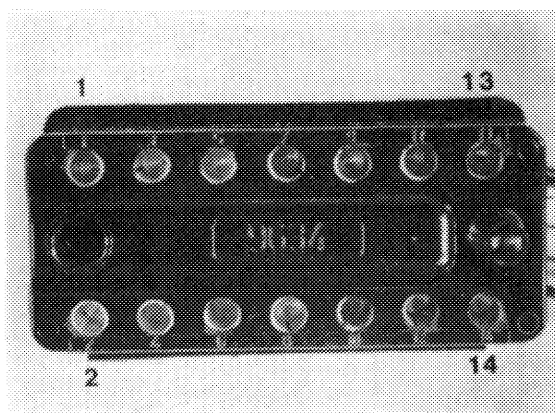


Fig. 3-35
Connector, 14 terminal

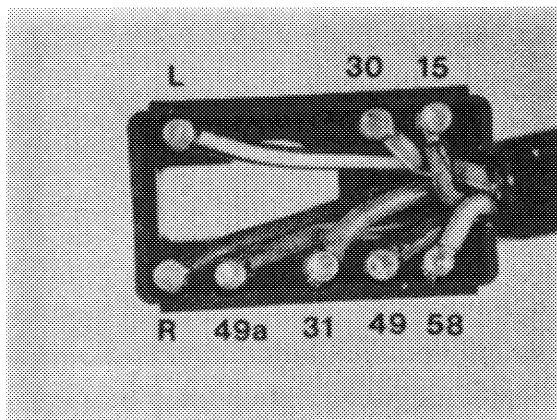
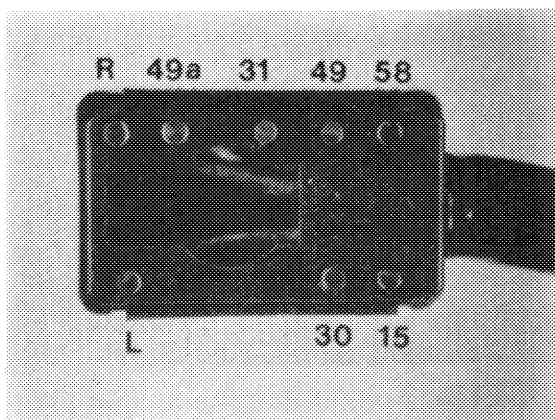


Fig. 3-36
Connector, flasher switch

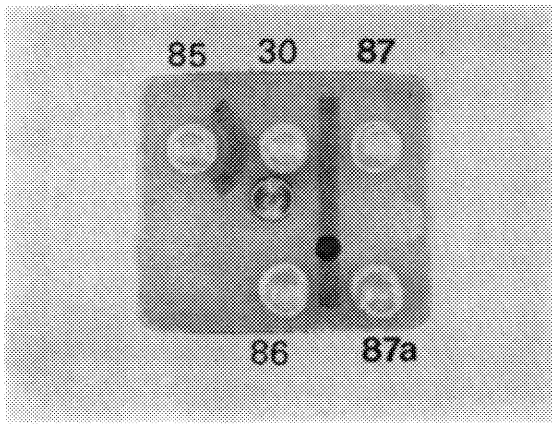


Fig. 3-37
Relay

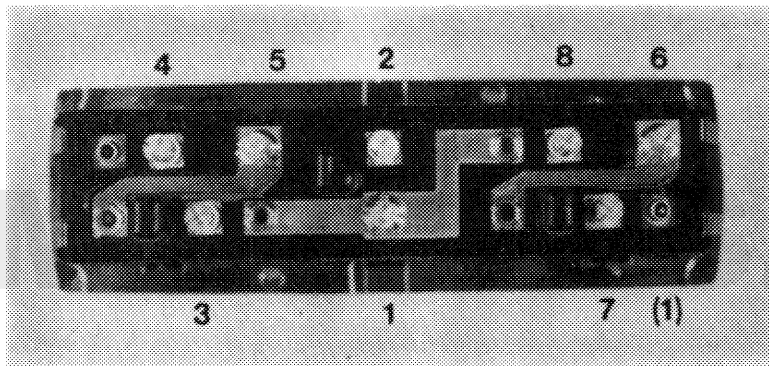


Fig. 3-38
Window switch group
(the 1 terminal has two alternate positions)

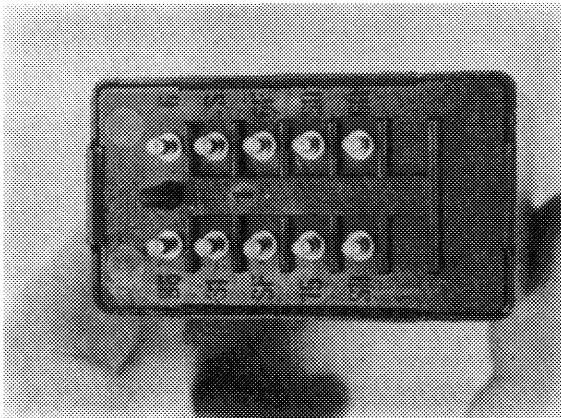


Fig. 3-39
Seat belt starter logic relay

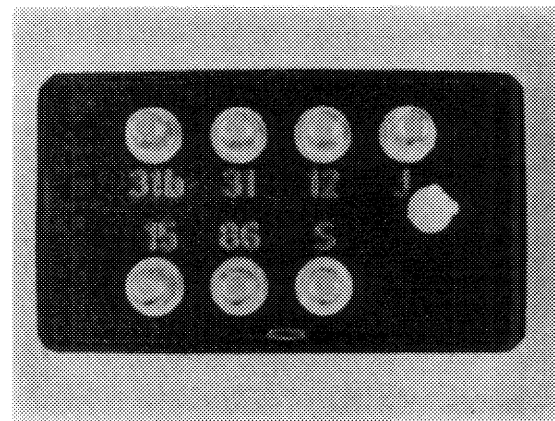


Fig. 3-40
Windshield wiper interval relay

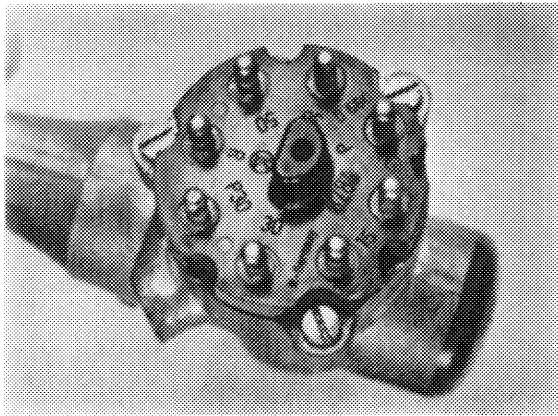


Fig. 3-41
Ignition switch

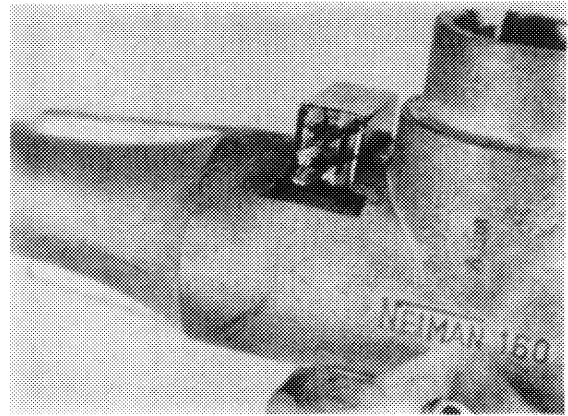


Fig. 3-42
Ignition lock warning switch

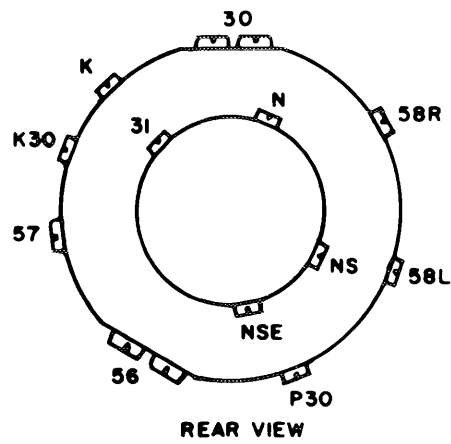


Fig. 3-43
Light switch

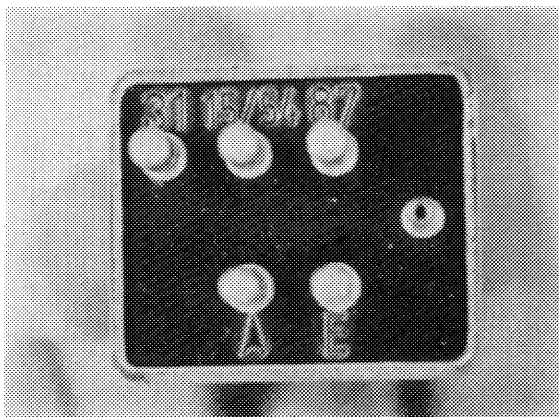


Fig. 3-44
Heated rear window delay relay

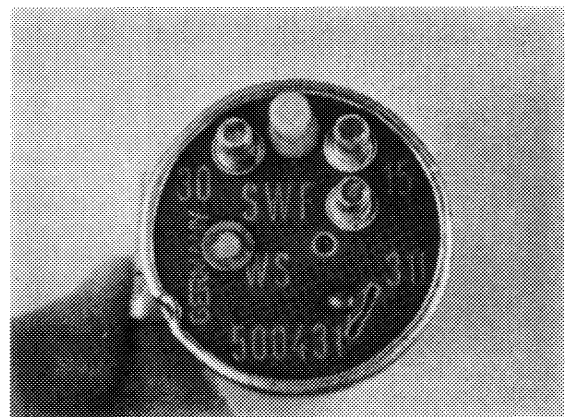


Fig. 3-45
Buzzer, warning

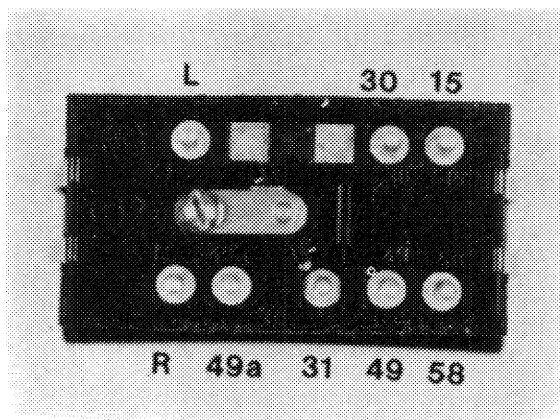


Fig. 3-46
Flasher switch

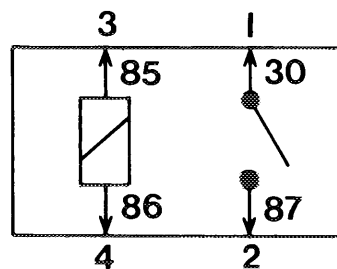


Fig. 3-47
Relay, normally open

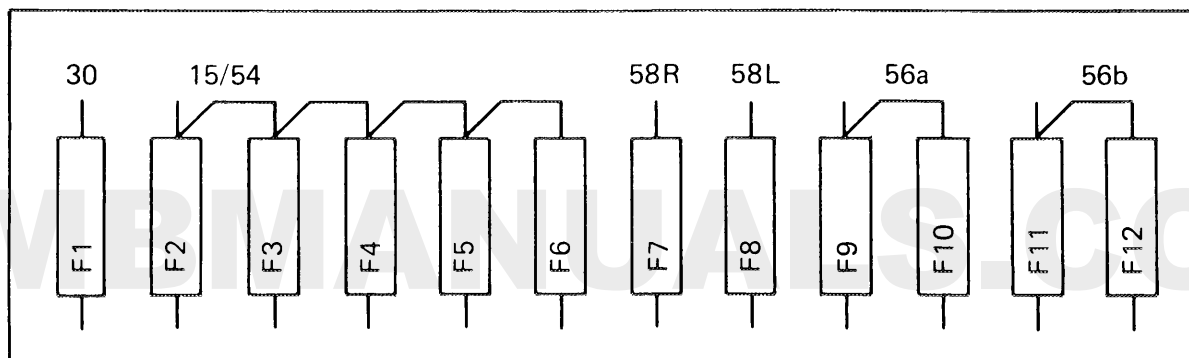


Fig. 3-48
Main fuse box



Mercedes-Benz

Service

Electrical Troubleshooting Manual

Models 230, 240D, 280/280C Model Year 1974

Mercedes-Benz of North America, Inc.

S-2415-115

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Order no.: **S-2415-115**

INDEX

Introduction	1 - 1
Standard Symbols and Definitions	2 - 1
Standard Symbols	
Wire Color and Size Codes	
Fuse Data	
Relay Key Designation	
Connector List	

Component Locations

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It is a general assumption that the reader is familiar with basic mechanical and electrical repair procedures and Mercedes-Benz vehicles.

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Mercedes-Benz of North America, Inc
Service and Parts Literature

SECTION I - INTRODUCTION

This edition of the Mercedes Benz Electrical Troubleshooting Manual includes information for models 230, 240D, and 280/280C. It has been carefully designed and prepared to help the technician reduce the time needed to locate and correct electrical malfunctions.

The format has been changed somewhat from the first edition in response to field comments. Specifically, all photographs and diagrams are grouped together in section III. Section IV, V and VI contain an index of components and foldout schematic pages for the 230, 240D and 280/280C vehicles respectively. Sections I and II are essentially unchanged except for the addition of a table showing fuse number used by each circuit. As before, power buses are drawn at the top of the sheet and ground buses near the bottom. Care has been taken to arrange circuit components such that the operation of a circuit can be easily and correctly understood. Ample notes are included to assure understanding of the intended circuit operation.

Two power buses are used on the Schematic/Wiring Diagram. The "Battery Bus" is connected directly to the battery and is "hot" or energized at all times, regardless of position of the key switch. See page 6-1, section C18. Notice that the plus battery terminal is connected to the "Battery Bus" at terminal 30 in the fuse box and all other wires on the Schematic/Wiring Diagrams shown connected to the "Battery Bus" are therefore, also connected to the battery at all times. The second bus used is the "Start-Run Bus". This bus is "hot" only when the key switch is in the start or run positions. Refer to page 6-1, section B10 and trace power from the Battery Bus through the key switch to the Start-Run Bus.

All switches and other components are shown as they exist when the vehicle is "at rest." At rest means doors closed, seats unoccupied, engine off, shift lever in park or neutral, temperature stabilized at 20°C/59°F, key out of ignition, light switch off, etc. The manner in which each component operates is explained in notes on the Schematic/Wiring Diagram. Refer to page 6-4, section F16. If the oil temperature is above 170°C or 620°F the Temperature switch is closed.

When a component is shown in its entirety in one location on the Schematic/Wiring Diagram, it is outlined with a solid heavy line. When a component is used in more than one location, it is outlined with a dash-dot heavy line. For example, fuse 1 is shown with a dash-dot heavy line because it appears in several locations throughout the Diagram. On the other hand, fuse 6, page 6-3, is shown with a solid heavy line because it appears nowhere else.

All wiring between components is shown exactly as it actually exists on the vehicle. Wiring internal to complicated components (for example, the Ignition Switch or the Light Switch) has been modified to aid in understanding electrical operation. In these cases, multiple pole, multiple throw switches are shown. To properly use the Schematic/Wiring Diagram, mentally position all switch poles to the same position and then trace the current paths through the component. It is important to remember that the switches actually function precisely as shown when measured from the switch terminals. For example, the Ignition Switch (page 6-1 B10 and page 6-2 B15) is drawn as a four pole switch, each pole with four throws or positions, one each corresponding to the actual four Ignition Switch positions, Off, 1, 2, and Start. By mentally positioning all four poles to, say, Start, you see the only circuits through the Ignition Switch that are completed when the switch is actually in the Start position are terminal 30 to 50 and terminal 30 to R.

Circuits which involve transistorized parts require special troubleshooting procedures. For example, if the Safety Interlock Circuit (page 6-1, D5) does not function, first check all circuits external to the relay logic unit. Using a voltmeter, check for power at terminals 7 and 8. Ground terminal 1 and with the Ignition Key in the Start position, check that the AC/Starter Relay picks up. Using an ohmmeter, check that the Seat Switches, Buckle Switches and Starter Lockout Switch, terminals 2, 5, 6, 9, 10 on the Logic Relay connector, all show shorts to ground when the switches are operated. If all external circuits operate properly, the fault lies within the transistorized Logic Relay and it is replaced.

PROCEDURE FOR SYSTEMATIC TROUBLESHOOTING

Systematic troubleshooting should proceed through the following five steps:

1 VERIFY THE COMPLAINT

Check the complaint to be sure the problem is real. If the customer is available, ask him to demonstrate the problem to you. Road test the vehicle if necessary but in any case, get first hand knowledge of the complaint. If there are several symptoms, note them all and then look for one failure that could cause them all. It is rare for more than one failure to occur at a time.

For example, when verifying the complaint that a 280 engine overheats, you notice that 1) the auxiliary fan does not operate, 2) the kickdown solenoid does not operate, and 3) the turn signals do not operate.

2 LOCATE THE FAULT ON THE SCHEMATIC

Use the 280/280C index to locate the circuits you found inoperative on the Schematic. In this example, locate the auxiliary fan circuit on page 6-3, the kickdown circuit, also on page 6-3, and the turn signal circuit on page 6-2.

3 ANALYZE THE CIRCUIT

Analyzing the symptoms requires careful thought. No two cases are alike. In this example you might notice that all three faulty circuits are supplied through fuse 4.

4 CORRECT THE FAILURE

In this example, replace the fuse to correct the failure. In most cases, fuses fail because they have been overloaded, not from old age or some other reason. To correct the reason for the fuse failure, you must isolate and test each circuit which is fed through fuse 4. The fuse usage chart in the vehicle fuse box or the listing in Section II tells you that the auxiliary fan circuit, the kickdown solenoid, and the turn signal circuit are the only circuits supplied by fuse 4. Good procedure in this case calls for replacing the fuse and, if the engine is still hot after your test run, check that the auxiliary fan does run. If the engine is not hot, a check of the Schematic shows that if you disconnect the Engine Temperature Switch or the Refrigerant Temperature Switch and short the lead to ground, the fan will operate. If the fuse does not fail at this point you might next press the accelerator to the floor closing the kickdown switch. If the fuse is still OK, turn the Turn Signal on which will energize the remaining circuit supplied through fuse 4. Assume, in this example, that the fuse fails only when the combi switch is set for a right turn. A look at the schematic, page 6-2 tells you the short to ground which is drawing high current is between the combi switch R wire (connector C 106, terminal 8) and the front right and rear right turn lights or perhaps involves the black and green wire which goes to terminal R on the Flasher Switch. Good procedure is to split a circuit in half if practical, to isolate a fault. Assume you disconnect C 104, replace the fuse again and this time the fuse does not fail. Notice the circuit index lists C 104 under Turn Signal and Flasher. The Component Location column describes C 104's location as "under dash—driver's side" and refers to photograph 3-15 for precise location.

You know the short is between C 104, terminal 7, and the rear right turn signal light. Your next step could be to reconnect C 104 and disconnect the connector which plugs into the rear right light unit. The fuse again does not fail. You know now the short is within the rear right light unit. Assume upon taking the unit apart a short is found and removed.

5 CHECK FOR PROPER CIRCUIT OPERATION

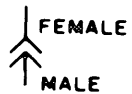
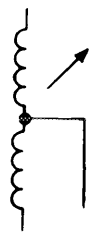
Good practice requires that you check all parts of the circuit you have tested. Check not only the turn signal circuit, but the auxiliary fan and kickdown switch for proper operation.

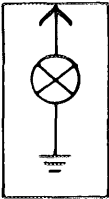
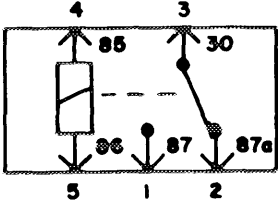
SECTION II - STANDARD SYMBOLS AND DEFINITIONS

1. STANDARD SYMBOLS

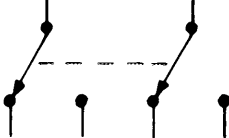
The following electrical symbols are used in the Electrical Troubleshooting Manual.

Temperature switch	
Capacitor	
Clutch, electric	
Coil	
Component, shown complete in one position on Diagram	

Component, shown in more than one position on Diagram	
Connector	
Diode	
Fuse	
Electric gauge	
Ground or chassis	

Ground shown elsewhere	
Light bulb	
Motor, permanent magnet	
Motor, series field	
Spark gap	
Relay (contacts as shown with no voltage applied to coil)	

Relay coil, time delay	
Relay coil, two windings	
Switch, momentary (Returns to center off position when released)	
Resistor, fixed value	
Resistor, variable value	
Screw terminal	

Solenoid valve	
Switch, normally closed	
Switch normally open	
Switch, one pole, two positions	
Switch, two poles, two positions (Dashed line indicates the two poles move together)	
Transistor	

2. WIRE SIZE AND COLOR

Wire size and insulation color is shown on the Schematic/Wiring Diagram as an aid in locating specific wires. Wire size, (cross-section area) is shown in millimeters square, 0.5, 0.75, 1.0, 1.5, 2.5, 4.0, 6.0, 10, 25 and 35. The first color shown on the Diagram is the base or overall insulation color. Second and third colors, if any, designate striping. Solid brown insulation is used exclusively for wires that are grounded.

The color code used in this Manual is somewhat different from the code used in Mercedes Benz documents prepared in Germany. All color codes used in the Manual are two letter, selected to closely relate to the English word they represent. Notice that lower case letters are used.

COLOR	CODE USED IN ETM	GERMAN EQUIVALENT
White	wt	ws
Green	gn	gn
Brown	br	br
Yellow	yl	ge
Gray	gy	gr
Pink	pk	rs
Blue	bu	bl
Red	rd	rt
Black	bk	sw
Ivory	iv	el
Natural	nt	nf
Violet	vi	vi

Example:

Wire designation: 1.5 gy/rd
Wire size: 1.5 mm²
Insulation base color: gray
Insulation strip color: red

3. FUSE DATA

The maximum current carrying capacity of fuses is coded according to the color of the porcelain fuse body as follows:

yellow	—	5 amperes
white	—	8 amperes
red	—	16 amperes
blue	—	25 amperes

The exact position of those fuses mounted outside the main fuse box varies from vehicle to vehicle due to manufacturing convenience. The component Location List, Sections IV, V and VI, specifies the general location of a particular fuse, such as "left fender." To determine which fuse of several is the one you require, identify it by the color of the wires leading to its terminals.

Notice that the radio and power antenna fuses are usually housed in the same fuse box. This fuse box can be identified by a screw lid rather than a snap-on lid.

Proper fuse sizes are as follows:

1 — 8a	12 — 8a
2 — 16a	13 — 8a
3 — 8a	14 — 8a (3)
4 — 8a	15 — --
5 — 8a (1)	16 — --
6 — 5a	17 — 16a
7 — 8a	18 — 16a
8 — 8a	19 — 16a (2)
9 — 8a	20 — 16a
10 — 8a	21 — 8a
11 — 8a	22 — 8a

(1) This position not used on 280/280C

(2) If vehicle equipment includes both heated rear window and electric roof, this fuse is 25 amperes.

(3) 2 amperes on 280/280C

The following table lists the fuse number used by various circuits on each vehicle.

	Fuse Number		
	<u>230</u>	<u>240D</u>	<u>280/ 280C</u>
Air Conditioning			
A/C blower motor	F21	F21	F21
A/C clutch	F22	F22	F22
Heater blower motor	F 6	F 6	F 6
Auxiliary Fan	F4/F20	F20	F4/F20
Choke Heating	F 4	—	F 3
Cigar Lighter	F 2	F 2	F 2
Clock	F 1	F 1	F 1
Fuel Gauge	F 5	F 5	F 3
Heated Rear Window	F19	F19	F19
Horns	F 2	F 2	F 2
Idle Fuel Cutoff	F1/F4		F 3
Kickdown	F 3	F 3	F 4
Light Circuits			
A/C Control light	F 6	F 6	F 6
Ash tray	F 7	F 7	F 7
Backup	F 5	F 5	F 3
Brake system warning	F 5	F 5	F 3
Dome, front	F 1	F 1	F 1
Dome, rear	F 1	F 1	F 1
Fog (Perimeter)	F11	F11	F11
Gear selector	F 7	F 7	F 7
Glove box	F 5	F 5	F 3
Head	F9/F10/ F11/F12	F9/F10/ F11/F12	F9/F10/ F11/F12
Instrument cluster	F 7	F 7	F 7
Low Fuel warning	F 5	F 5	F 3
Marker	F7/F8	F7/F8	F7/F8
Standing	F1/F7/ F 8	F1/F7/ F 8	F1/F7/ F 8
Stop	F 5	F 5	F 3
Tail	F7/F8	F7/F8	F7/F8
Trunk	F 1	F 1	F 1
Radio	F14	F14	F14
Antenna	F13	F13	F13
Sliding roof	F19	F19	F19
Turn signal/flasher	F1/F4	F1/F4	F1/F4
Windows	F4/F17/ F 18	F4/F17/ F 18	F4/F17/ F 18
Windshield wiper/ washer	F 2	F 2	F 2

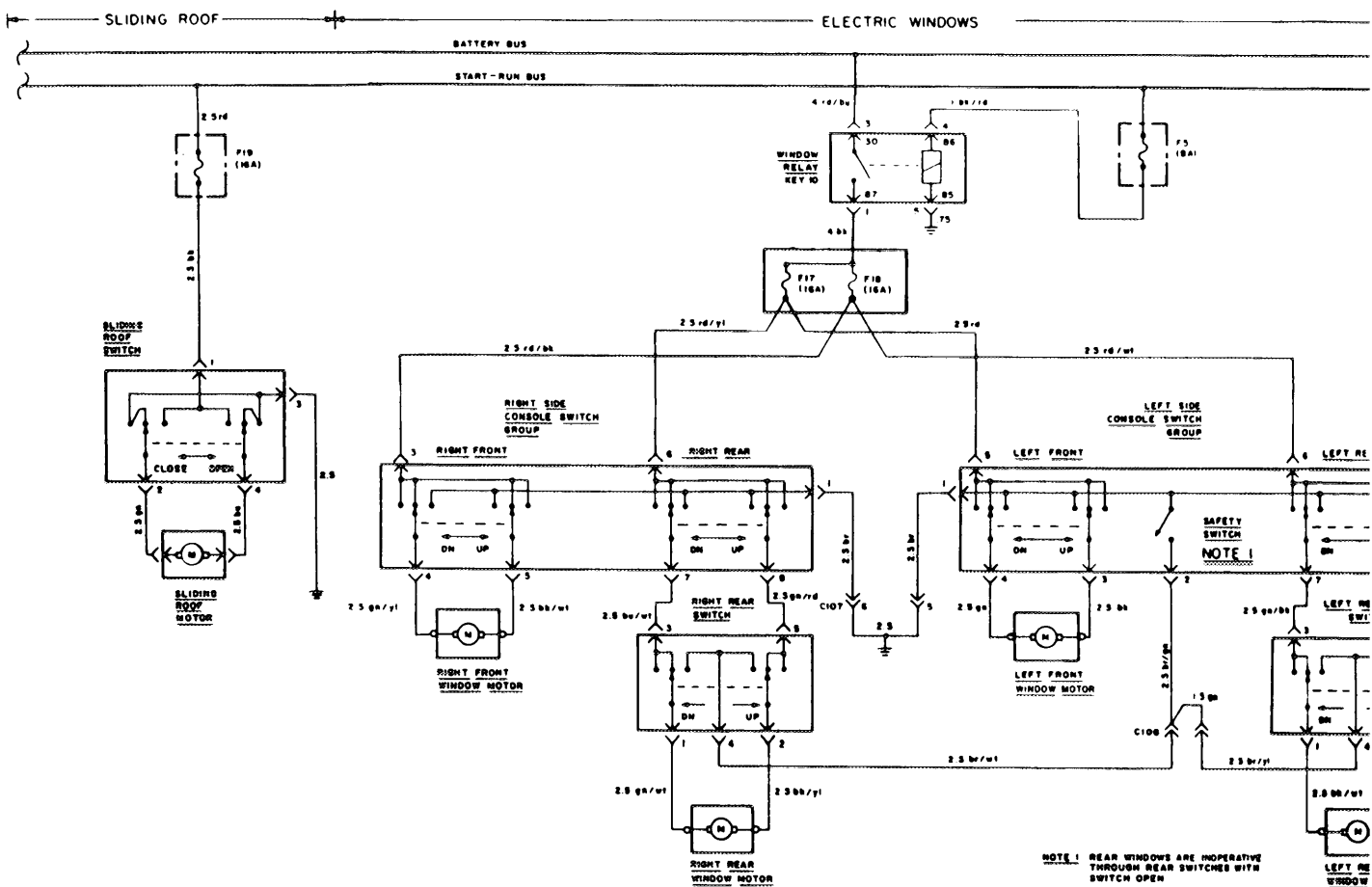
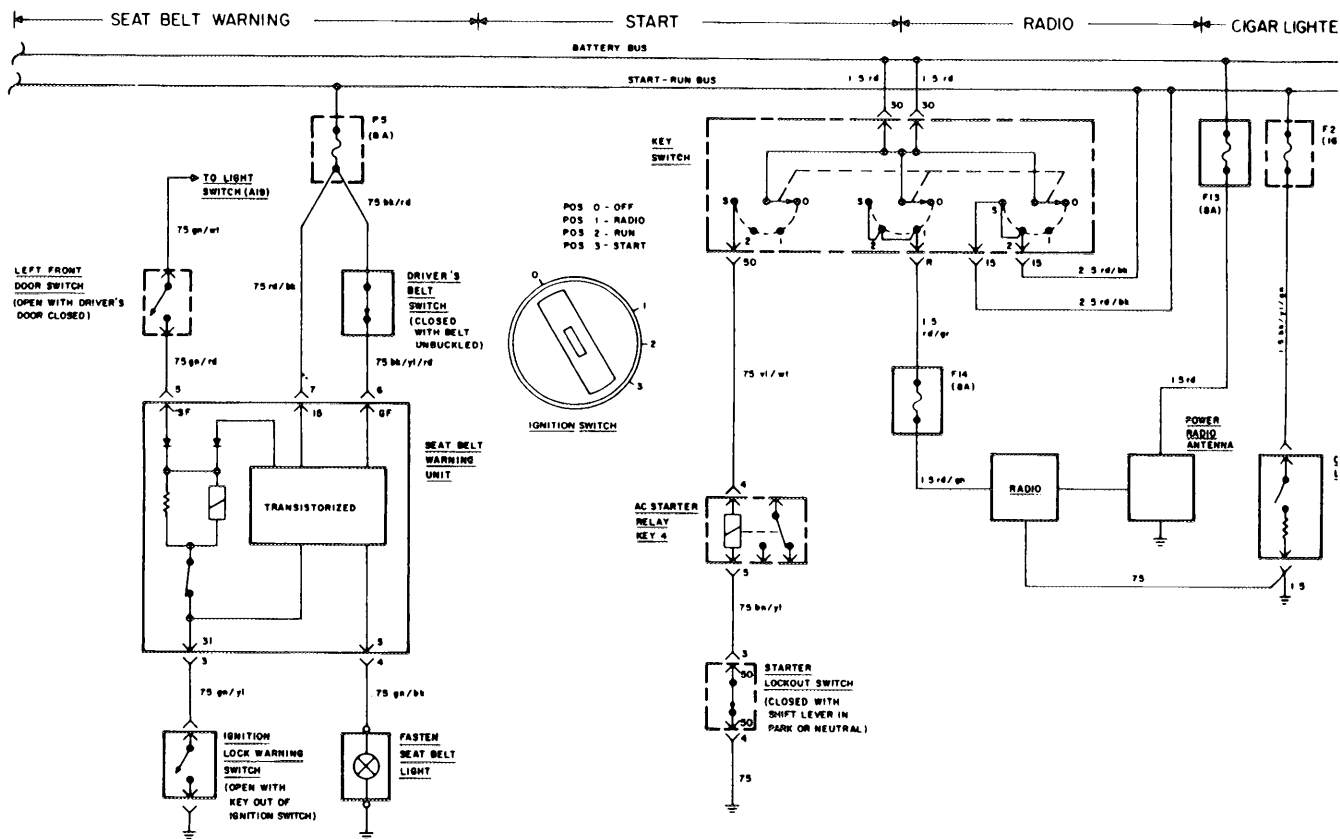
4. RELAY KEY CODE DESIGNATION

Since the exact position of relays varies due to manufacturing convenience, the harness leading to each relay is tagged as a means of identifying each relay. The following listing identifies the key numbering system.

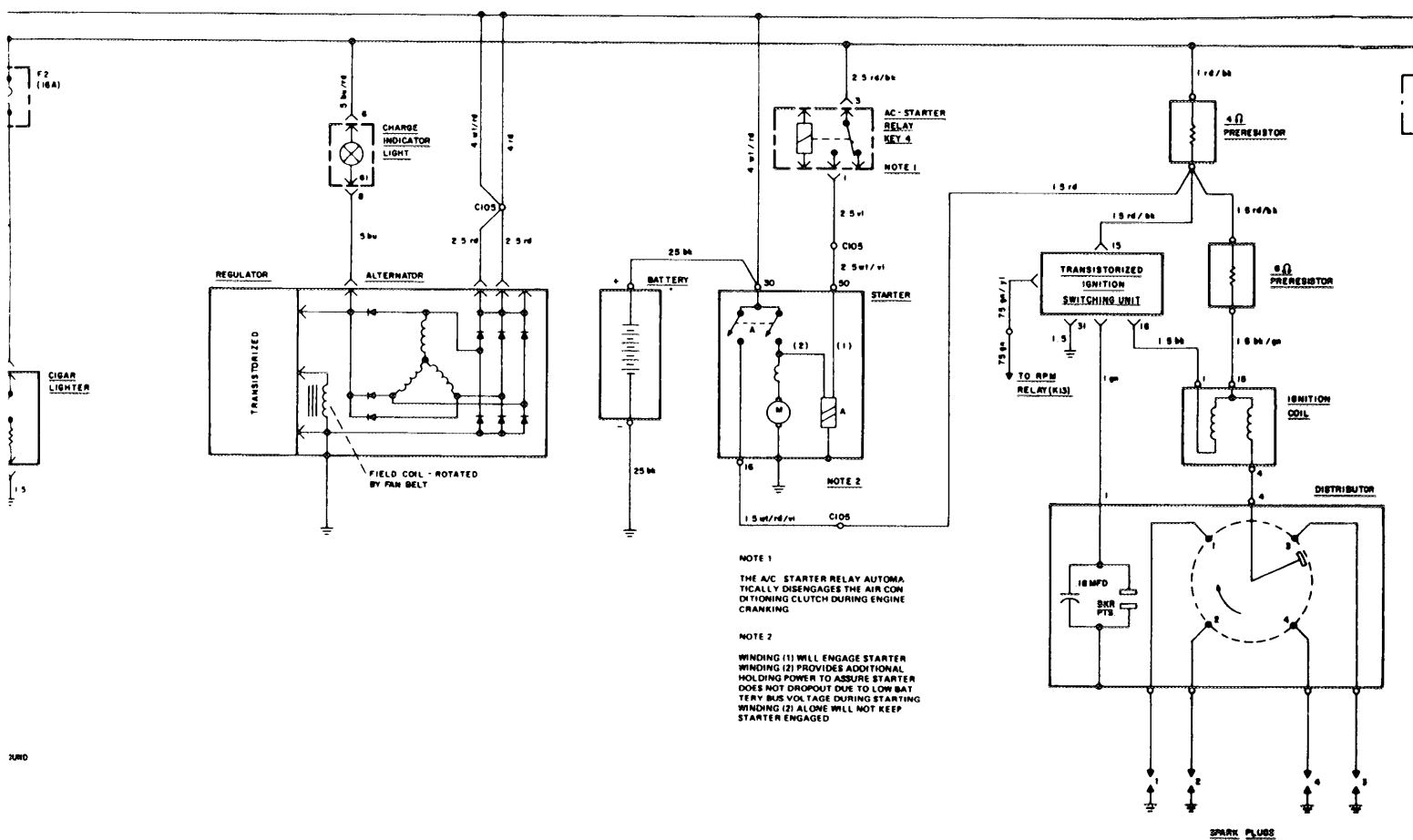
Key Number	Function
1	Fuel pump
2	Cold Start Valve
3	Fuel Injection
4	A/C Starter
5	Change-over Valve
6	Auxiliary fan
7	
8	Aux. Fan Cutout
9	
10	Windows
	Hot start
	Temperature Switch
	(Choke Heating)
	Choke Pre-resistance

5. CONNECTOR LIST

C101 Backup lights/kickdown switch
C102 Impulse trigger (Trigger points)
C103 Fuel injection circuit
C104 Rear harness circuits
C105 Charge-start circuit (3 or 4 terminal)
C106 Combination switch
C107 Electric window circuit
C108 Electric window circuit
C109 Reading light
C110 Rear dome light
C111 Hot start circuit
C112 Wiper motor
C113 Blower switch
C114 Choke Heater

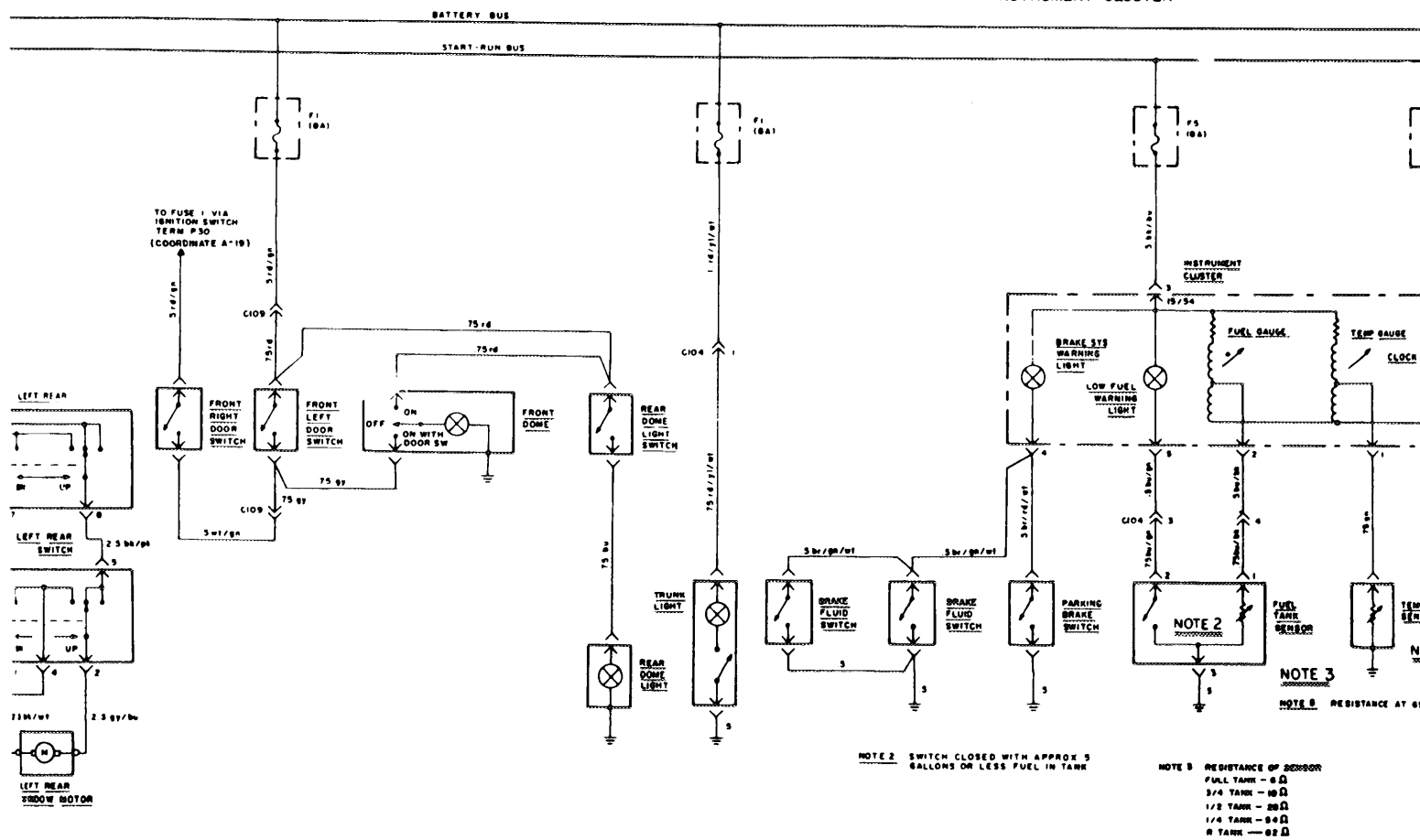


LIGHTER — CHARGE — START — IGNITION SYSTEM



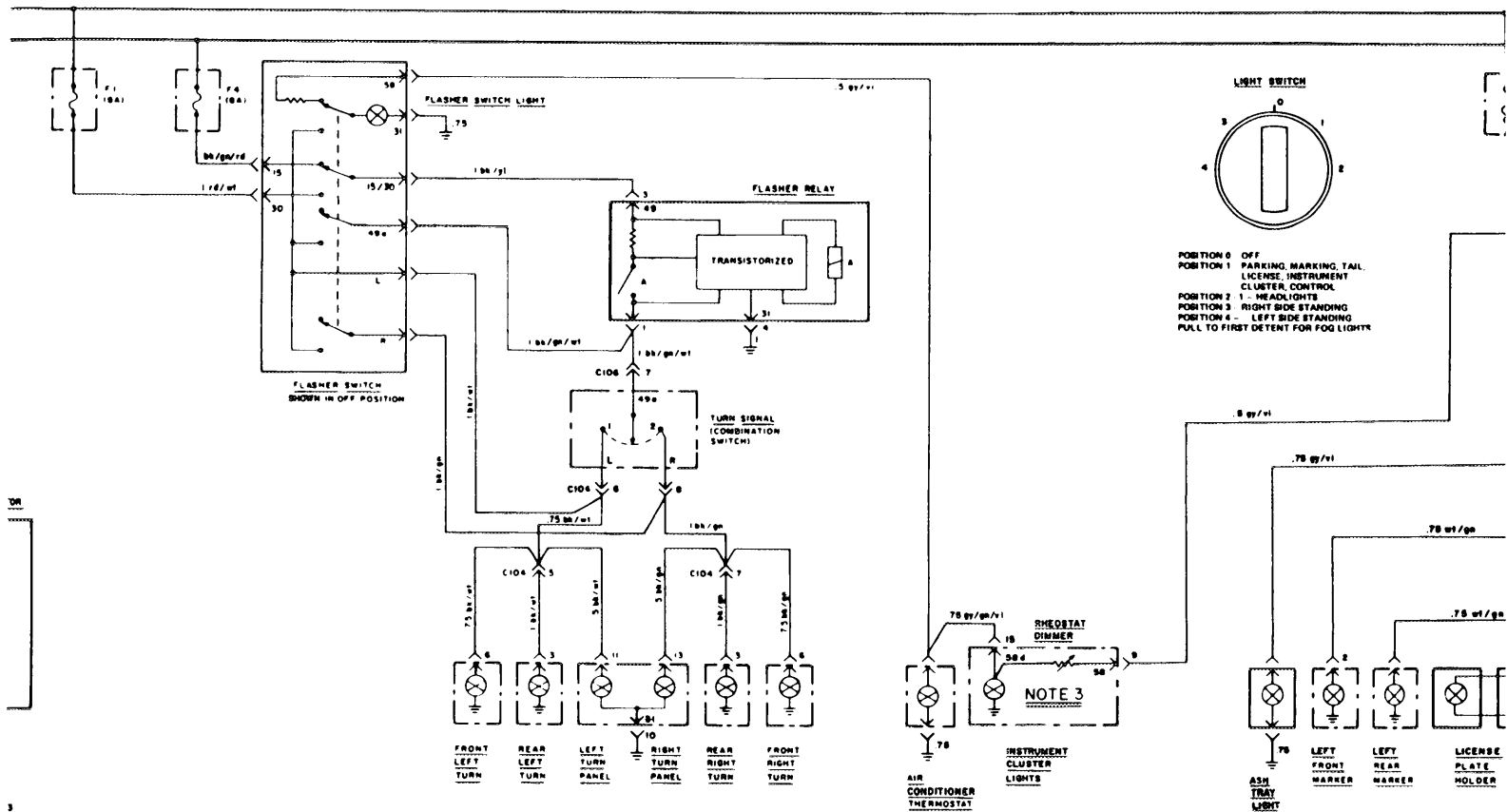
7 — 8 — 9 — 10 — 11 — 12

INTERIOR LIGHTS — INSTRUMENT CLUSTER



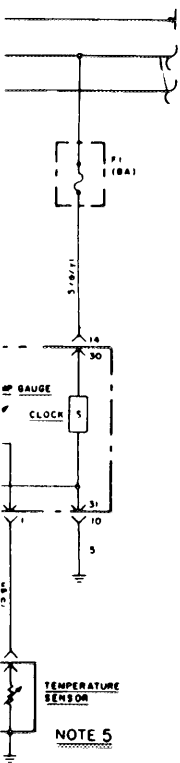
TURN SIGNAL AND FLASHER

CONTROL LIGHTS



NOTE 3 THERE ARE 5 INSTRUMENT CLUSTER BULBS IN PARALLEL

12 13 14 15 16 17



ANCE AT 65°F - 460 Ω

COMPONENT INDEX

SYSTEM/ COMPONENT	LOCATION ON VEHICLE	LOC FIG NO	TERM FIG NO	SYSTEM/ COMPONENT	LOCATION ON VEHICLE	LOC FIG NO	TERM FIG NO
CHARGE Regulator C 105	Alternator Firewall			TRUNK LIGHT C 104 (12 pins)	Under dash, driver's side	6	T4
ELECTRIC WINDOWS Front seat switch Window relay - key 10 C 108	Front seat console Right firewall under fuse bracket Console		T8 T7	TURN SIGNAL AND FLASHER Flasher relay C 104 (12 pins) C 106 (14 pins)	Under dash, driver's side Under dash, driver's side Under dash, driver's side	6 6 6	T6 T4 T5
IGNITION SYSTEM Coil Distributor 4 Ohm preresistor 6 Ohm preresistor Transistorized ignition switching unit	Left front fender Left front fender Left front fender Left front fender	8 8 8					
INSTRUMENT CLUSTER Brake fluid switches Coolant temp. sensor Fuel tank sensor Parking brake switch C 104 (12 pins)	Reservoir Left front cylinder head Trunk Top parking brake Under dash, driver's side	3 12 11 6	T4				
INTERIOR LIGHTS C 109	Console						
KICKDOWN CIRCUIT Switch	Below accelerator pedal	10					
LIGHT SWITCH C 104 (12 pins) C 106 (14 pins)	Under dash, driver's side Under dash, driver's side	6 6	T4 T5				
SEAT BELT WARNING Ignition warning switch Warning unit	Ignition switch Under dash, driver's side		T12				
SLIDING ROOF Motor	Behind spare tire						
START AC/Starter relay, key 4	Right firewall, under fuse bracket		T7				



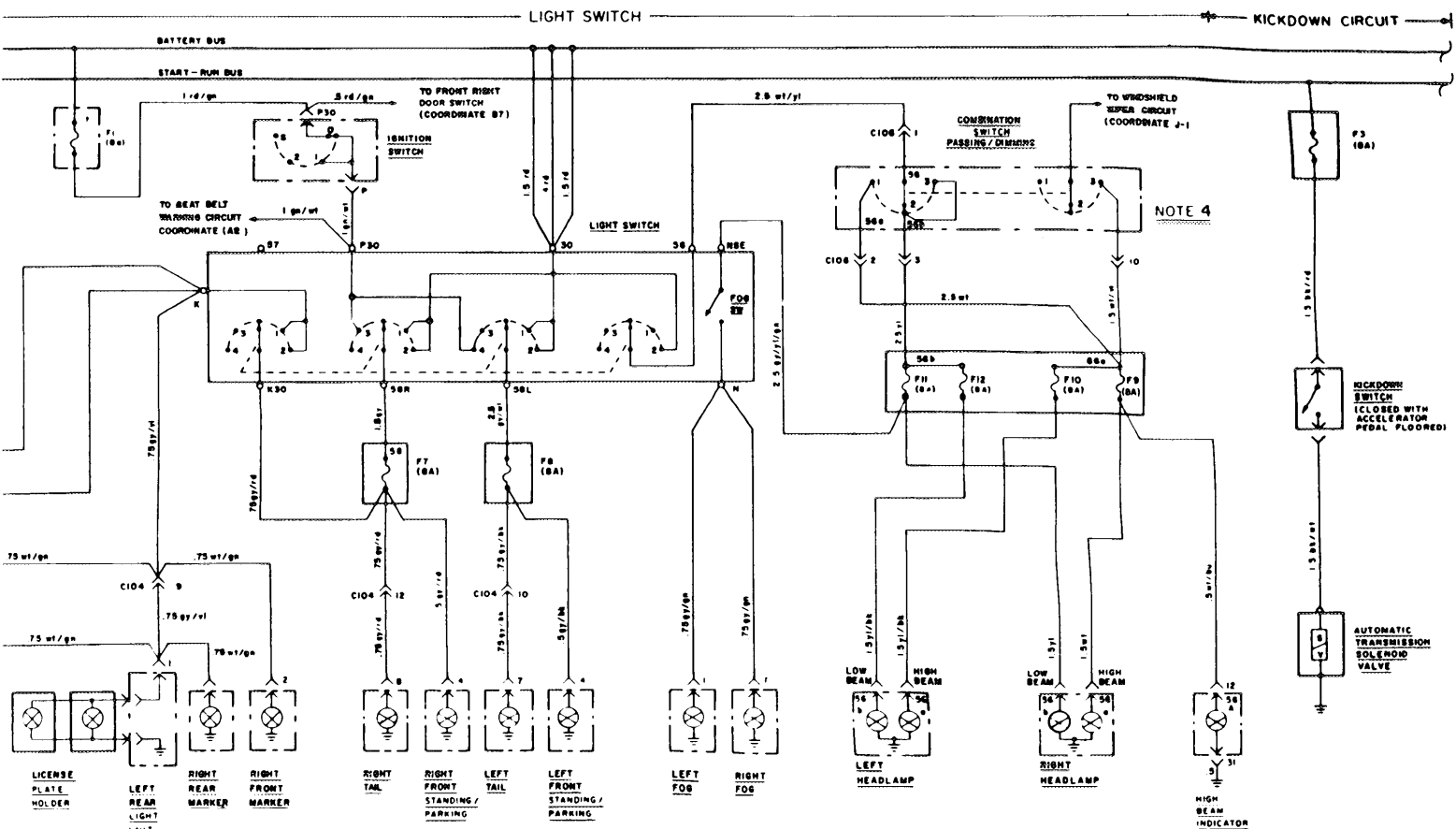
1 - A/C Blo



1 - Change



1 - Main fu
2 - Heater t
3 - Brake fi
4 - Wiper m



NOTE 4 POSITION 1 - HIGH BEAM
POSITION 2 - LOW BEAM
POSITION 3 - HIGH BEAM FLASH



LOCATION FIGURES



Fig 1
1 - A/C Blower motor



Fig 2
1 - Change over switch



Fig 3
1 - Main fuse box
2 - Heater blower pre-resistors
3 - Brake fluid switches
4 - Wiper motor

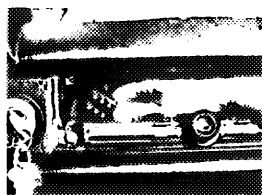


Fig 4
1 - C 113



Fig 5
1 - Temperature switch, refrigerant



Fig 6
1 - Flasher relay
3 - Time delay relay, heated rear window
5 - Interval wiper timer
6 - C 104
7 - C 106

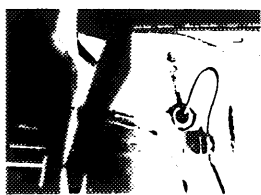


Fig 7
1 - C 112



Fig 8
1 - RPM test plug
2 - Ignition coil
3 - 0.4 ohm pre-resistor
4 - 0.6 ohm pre-resistor
5 - Time delay relay



Fig 10
1 - Kickdown switch



Fig 9
1 - Choke heater
2 - Idle fuel cut off valve

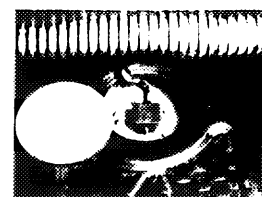
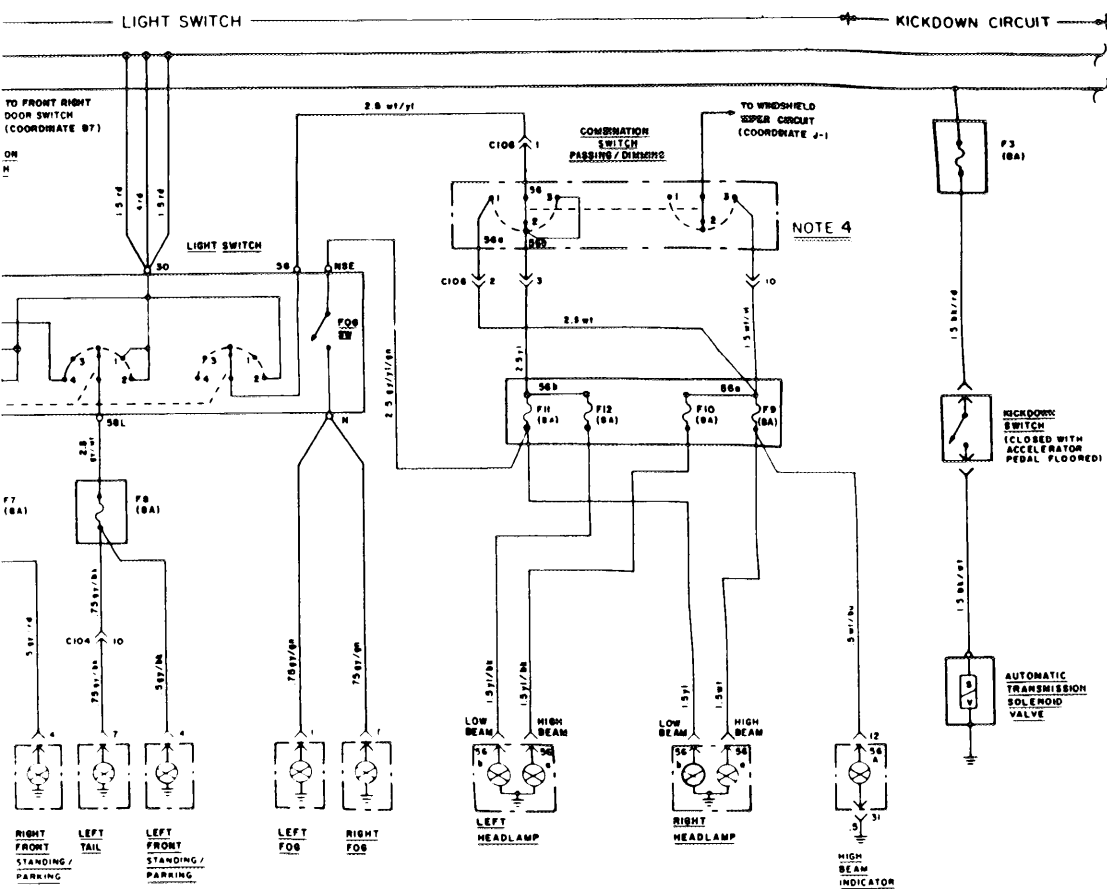


Fig 11
Fuel tank sensor

- AIR CONDITION
- AUTOMATIC CHO
- AUXILIARY FAN
- BLOWER MOTOR
- CHARGE
- CIGAR LIGHTER
- CLOCK
- COOLANT TEMPE
- ENGINE EMISSION
- FUEL GAUGE
- HEATED REAR WI
- HEATER CONTROL
- HORNS
- IDLE FUEL CUTOFF
- IGNITION SYSTEM
- KICKDOWN
- LIGHT CIRCUITS
- AIR CONDITIO
- BACKUP
- BRAKE
- BRAKE SYST
- CATALYST IN
- CIGAR LIGHT
- FOG
- GLOVE BOX
- HEAD
- INTERIOR
- LOW FUEL W
- MARKER
- PARKING
- STANDING
- TAIL
- TRUNK
- RADIO
- ANTENNA
- SEAT BELT WARN
- SLIDING ROOF
- START
- TURN SIGNAL/FL
- WINDOWS
- WINDSHIELD WIP
- POWER BUS DET
- SPECIAL GROUND



NOTE 4 POSITION 1 - HIGH BEAM
POSITION 2 - LOW BEAM
POSITION 3 - HIGH BEAM FLASH

A

B

C

D

LOCATION FIGURES

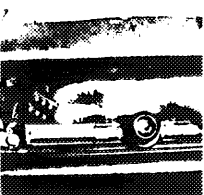


Fig 4

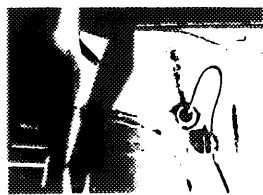


Fig 7



Fig 5



Fig 8



Fig 6

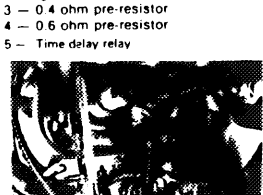


Fig 10

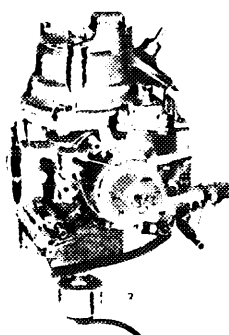


Fig 9

- 1 - Choke heater
- 2 - Idle fuel cut off valve

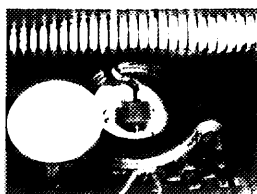
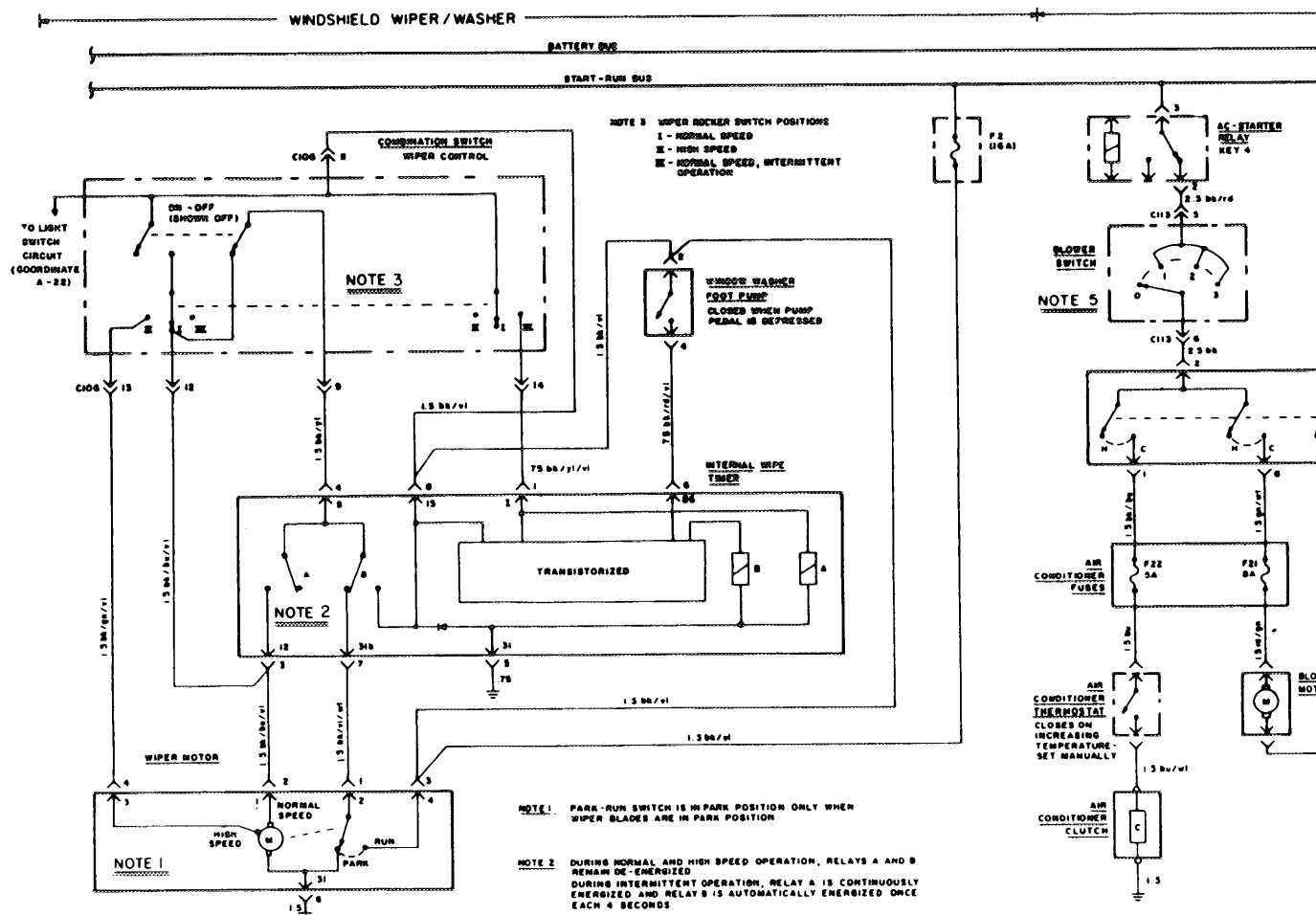


Fig 11

Fuel tank sensor

1975 230

AIR CONDITIONING CONTROL	L6
AUTOMATIC CHOKE	L18
AUXILIARY FAN	L10
BLOWER MOTOR CONTROL	K6
CHARGE	B7
CIGAR LIGHTER	C6
CLOCK	F12
COOLANT TEMPERATURE GAUGE	F12
ENGINE EMISSION CONTROL	L13
FUEL GAUGE	F11
HEATED REAR WINDOW	R4
HEATER CONTROL	L6
HORNS	L11
IDLE FUEL CUTOFF	L15
IGNITION SYSTEM	B11
KICKDOWN	B23
LIGHT CIRCUITS	
AIR CONDITIONING THERMOSTAT	D16
BACKUP	R5
BRAKE	R1
BRAKE SYSTEM WARNING	F10
CATALYST INDICATOR	L16
CIGAR LIGHTER	C6
FOG	D21
GLOVE BOX	R2
HEAD	D22
INSTRUMENT CLUSTER	D16
INTERIOR	F7
LOW FUEL WARNING	F11
MARKER	D17/D18
PARKING	D20
STANDING	D20
TAIL	D20
TRUNK	F9
RADIO	B5
ANTENNA	B5
SEAT BELT WARNING	B2
SLIDING ROOF	F1
START	B3/B9
TURN SIGNAL/FLASHER	B13
WINDOWS	F4
WINDSHIELD WIPER/WASHER	L3
POWER BUS DETAILS	L20
SPECIAL GROUNDING CIRCUITS	L22



COMPONENT INDEX

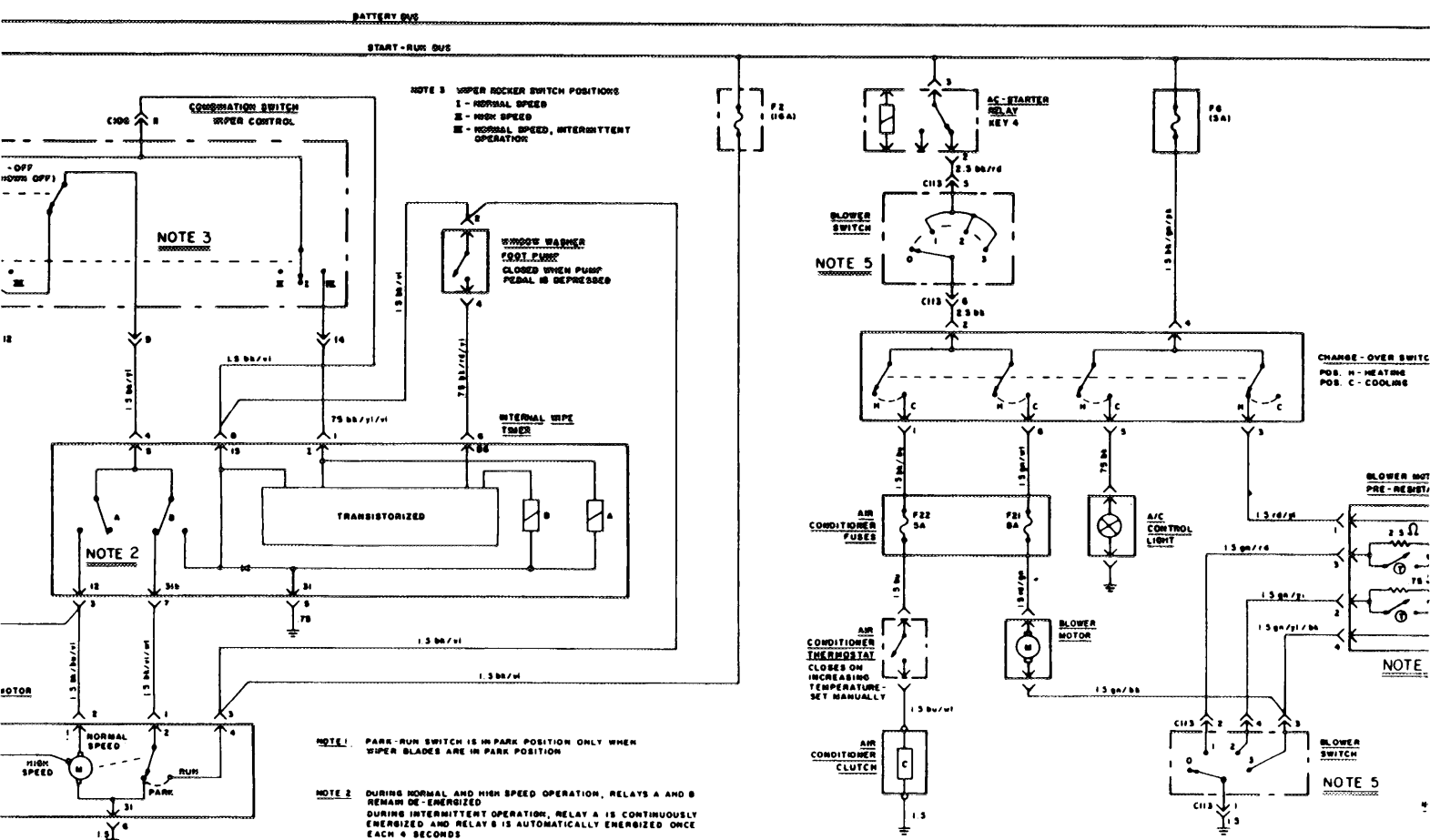
SYSTEM / COMPONENT	LOCATION ON VEHICLE	LOC FIG NO	TERM FIG NO	SYSTEM / COMPONENT	LOCATION ON VEHICLE	LOC FIG NO	TERM FIG NO
AIR CONDITIONING/HEATING				HORNS			
AC blower motor	Center of console	1	T7	C106 (14 pins)	Under dash — driver's side	6	T5
AC/ Starter relay, key 4	Right firewall under fuse bracket	2		IDLE FUEL CUTOFF			
Change-over switch	Console, left side	3		Time delay relay	Beside fuse box	8	
Fuse 21 (AC blower)	Right firewall — aux box	4		Solenoid	Carburetor	9	
Fuse 22 (AC clutch)	Right firewall — aux box	5		WINDSHIELD WIPER/WASHER			
Heater blower motor	Forward of AC blower	6		Interval wipe timer	Under dash — driver's side	6	T10
Pre-resistor		7		Motor	Firewall — left side	3	
C113 (6 pins)	Mounted to heater control lever plate	8	T2	C106 (14 pins)	Under dash — driver's side	6	T5
AUTOMATIC CHOKE							
Automatic Choke Heater	Carburetor	13					
AUXILIARY FAN							
Aux. fan relay, key 6	Below radio fuse	5					
Fuse 20 (aux fan)	Left fender — aux box	6					
Temp. switch — engine	Thermostat housing	7					
Temp. switch — refrigerant	Right firewall	8					
BACKUP							
C104 (12 pins)	Under dash — driver's side	6	T4				
BRAKE LIGHTS							
Switch	Above brake pedal	6	T4				
C104 (12 pins)	Under dash — driver's side	6	T4				
CATALYST INDICATOR							
Catalyst switch	Speedometer cable under dash	6					
ENGINE EMISSION CONTROL							
Air injection switch-over valve (blue)	Right fender skirt	6					
EGR switch-over valve (red)	Right fender skirt	7					
Ignition switch-over valve	Right fender skirt	8					
Relay box	Left fender	9					
RPM relay	Left fender	10					
Temperature switch	Oil filter mount	11					
Throttle valve lift	Right fender skirt	12					
HEATED REAR WINDOW							
Time delay relay	Under dash — driver's side	6	T14				
Fuse 19 (window)	Left fender — aux box	7					
C112	Behind rear seat — right side	7					



Fig. 12
1 — Coolant temperature sensor



Fig. 13
1 — Choke heating resistance



COMPONENT INDEX

LOCATION ON VEHICLE	LOC FIG NO	TERM. FIG NO	SYSTEM/ COMPONENT	LOCATION ON VEHICLE	LOC FIG NO	TERM. FIG NO
Center of console	1		HORNS			
Right firewall under		T7	C 106 (14 pins)	Under dash — driver's side	6	T5
fuse bracket			IDLE FUEL CUTOFF			
Console, left side	2		Time delay relay	Beside fuse box	8	
Right firewall — aux. box			Solenoid	Carburetor	9	
Right firewall — aux. box						
Forward of AC blower	3		WINDSHIELD WIPER/WASHER			
			Interval wipe timer	Under dash — driver's side	6	T10
Mounted to heater	4	T2	Motor	Firewall — left side	3	
control lever plate			C 106 (14 pins)	Under dash — driver's side	6	T5
Carburetor	13					
Below radio fuse						
Left fender — aux. box						
Thermostat housing						
Right firewall	5					
Under dash — driver's side	6	T4				
Above brake pedal						
Under dash — driver's side	6	T4				
Speedometer cable under dash						
Right fender skirt						
Right fender skirt						
Right fender skirt						
Left fender						
Left fender						
Oil filter mount						
Right fender skirt						
Under dash — driver's side	6	T14				
Left fender — aux. box						
Behind rear seat — right side	7					

LOCAT



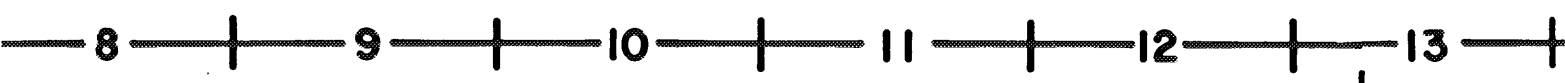
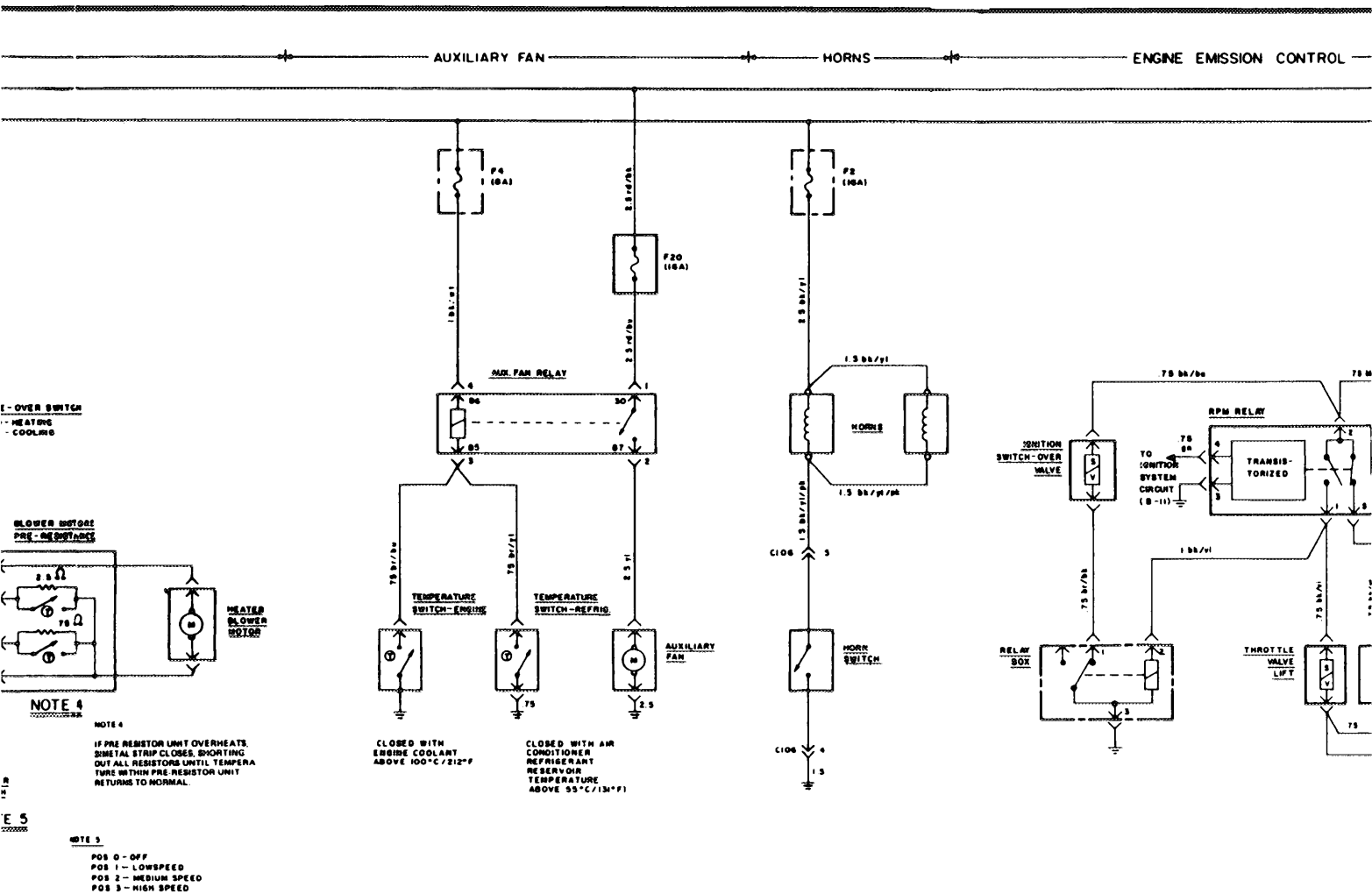
Fig. 12

1 — Coolant temperature sensor



Fig. 13

1 — Choke heating resistance



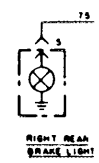
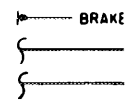
LOCATION FIGURES

FUSE DATA

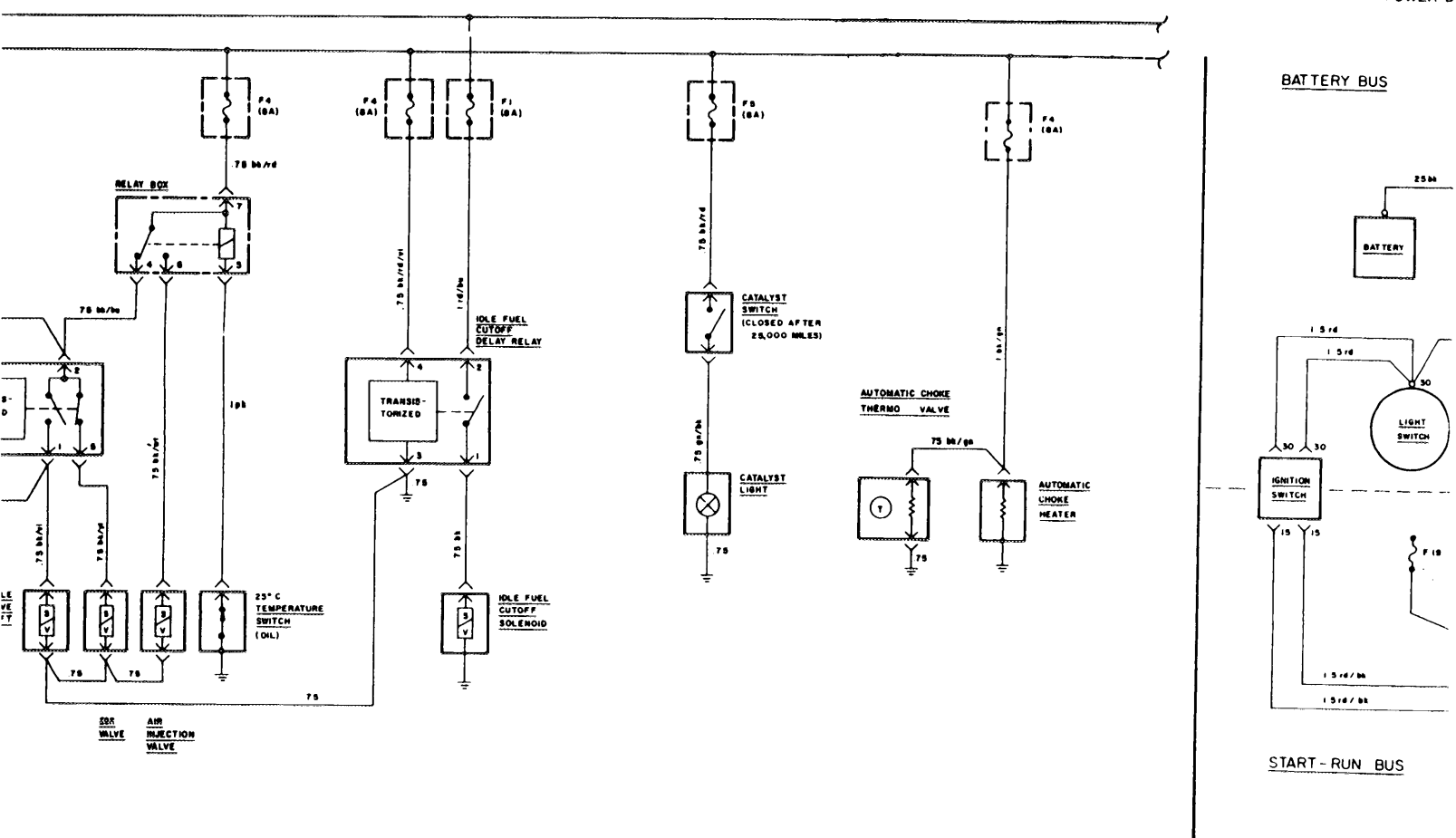
Fuse 1 (8 amps) Clock Flasher Idle fuel cut-off solenoid Interior lights Key Buzzer Trunk light	Fuse 6 (5 amps) A/C control light Heater blower motor	Fuse 13 (8 amps) Radio antenna
Fuse 2 (16 amps) Cigar lighter Horns Windshield wiper/washer	Fuse 7 (8 amps) A/C thermostat illumination Flasher illumination Front standing parking (right) Instrument cluster lights Left and right markers License plate light Tail light (right)	Fuse 14 (8 amps) Radio
Fuse 3 (8 amps) Kickdown solenoid	Fuse 8 (8 amps) Front standing parking (left) Left tail light	Fuse 15 (16 amps) Heated rear window
Fuse 4 (8 amps) Air injection valve Automatic choke Auxiliary fan relay EGR valve Idle fuel cut-off delay relay Throttle valve lift Turn signal	Fuse 9 (8 amps) High beam indicator Right head lights, high beam	Fuse 16 Not used
Fuse 5 (8 amps) Backup lights Brake lights Catalyst light Glove box light Instruments Seat belt warning Window control	Fuse 10 (8 amps) Left headlight, high beam	Fuse 17 (16 amps) Left front window Right rear window
	Fuse 11 (8 amps) Fog lights Right head light, low beam	Fuse 18 (16 amps) Left rear window Right front window
	Fuse 12 (8 amps) Left head light, low beam	Fuse 19 (16 amps) Sliding roof
		Fuse 20 (16 amps) Auxiliary fan motor
		Fuse 21 (8 amps) A/C Blower motor
		Fuse 22 (5 amps) Air Conditioner clutch

1975 230

AIR CONDITIONING CONTROL	L6
AUTOMATIC CHOKE	L18
AUXILIARY FAN	L10
BLOWER MOTOR CONTROL	K6
CHARGE	B7
CIGAR LIGHTER	C6
CLOCK	F12
COOLANT TEMPERATURE GAUGE	F12
ENGINE EMISSION CONTROL	L13
FUEL GAUGE	F11
HEATED REAR WINDOW	R4
HEATER CONTROL	L6
HORNS	L11
IDLE FUEL CUTOFF	L15
IGNITION SYSTEM	B11
KICKDOWN	B23
LIGHT CIRCUITS	
AIR CONDITIONING THERMOSTAT	D16
BACKUP	R5
BRAKE	R1
BRAKE SYSTEM WARNING	F10
CATALYST INDICATOR	L16
CIGAR LIGHTER	C6
FOG	D21
GLOVE BOX	R2
HEAD	D22
INSTRUMENT CLUSTER	D18
INTERIOR	F7
LOW FUEL WARNING	F11
MARKER	D17/D18
PARKING	D20
STANDING	D20
TAIL	D20
TRUNK	F9
RADIO	B5
ANTENNA	B5
SEAT BELT WARNING	B2
SLIDING ROOF	F1
START	B3/B9
TURN SIGNAL/FLASHER	B13
WINDOWS	F4
WINDSHIELD WIPER/WASHER	L3
POWER BUS DETAILS	L20
SPECIAL GROUNDING CIRCUITS	L22

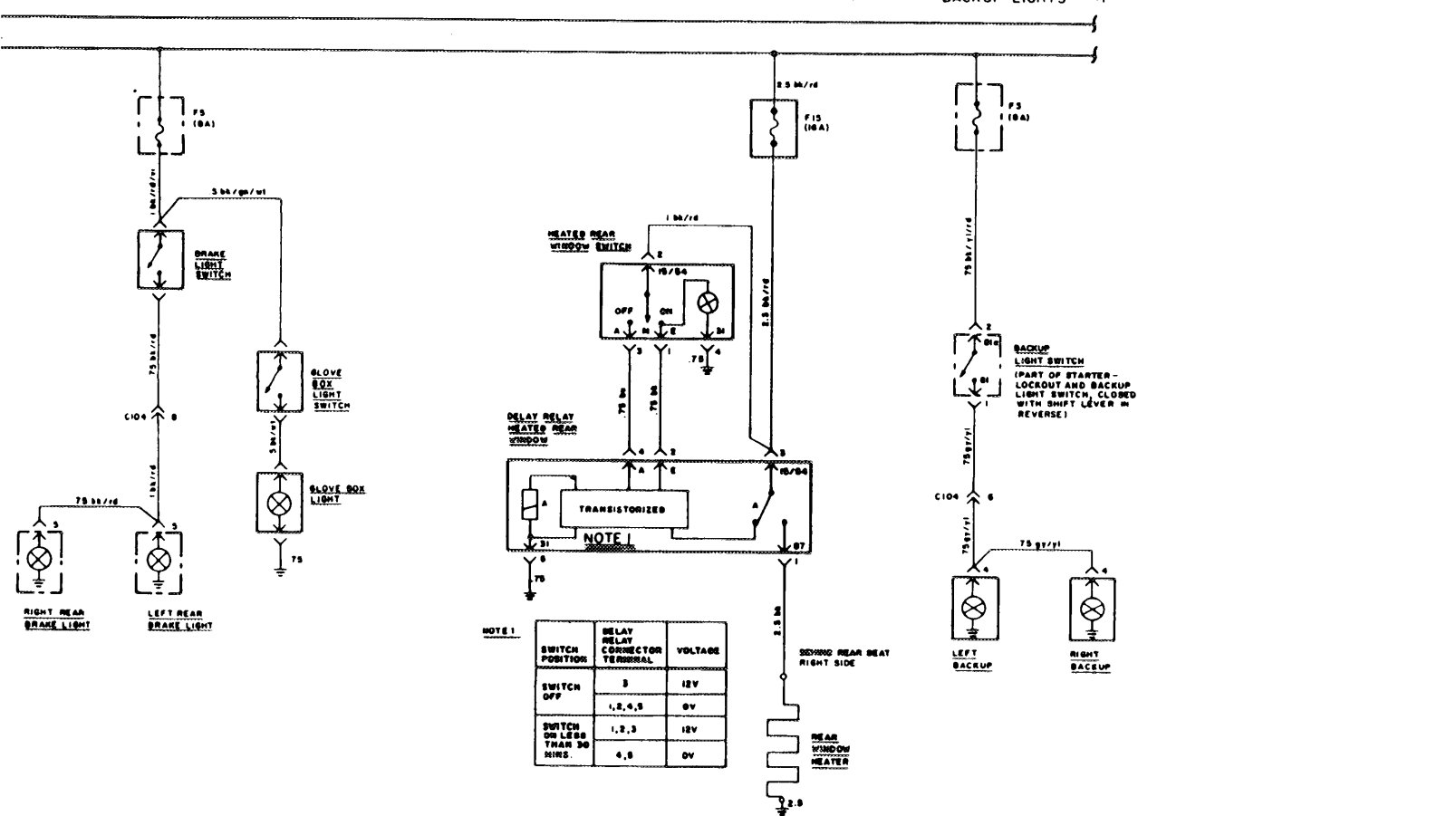


CONTROL — IDLE FUEL CUTOFF — CATALYST INDICATOR — AUTOMATIC CHOKE — POWER B

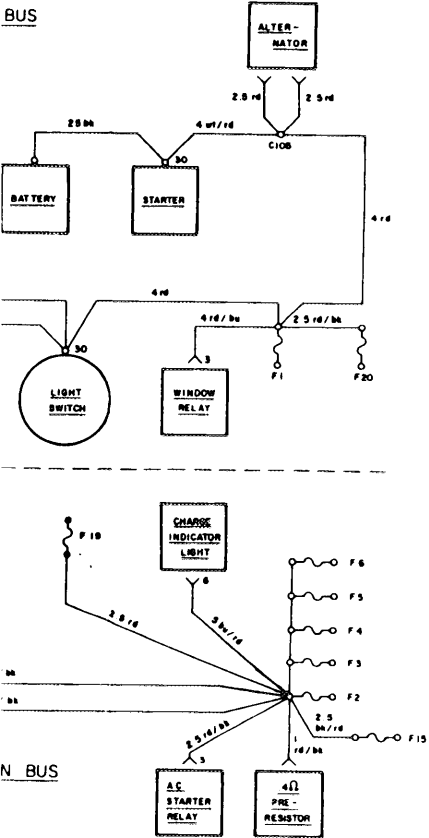


14 — 15 — 16 — 17 — 18 — 19 —

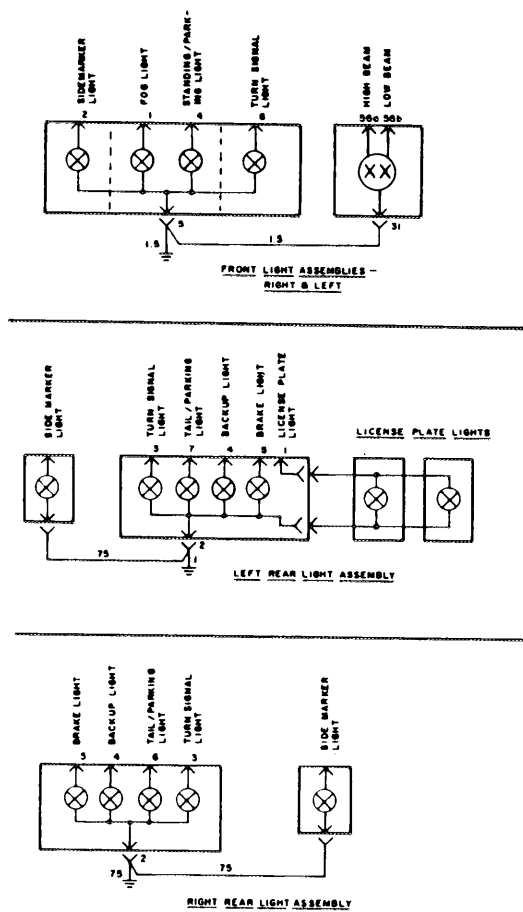
BRAKE LIGHTS — GLOVE BOX — HEATED REAR WINDOW — BACKUP LIGHTS —



POWER BUS DETAIL



SPECIAL GROUNDING CIRCUITS



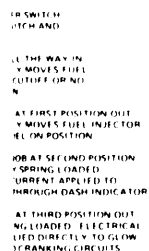
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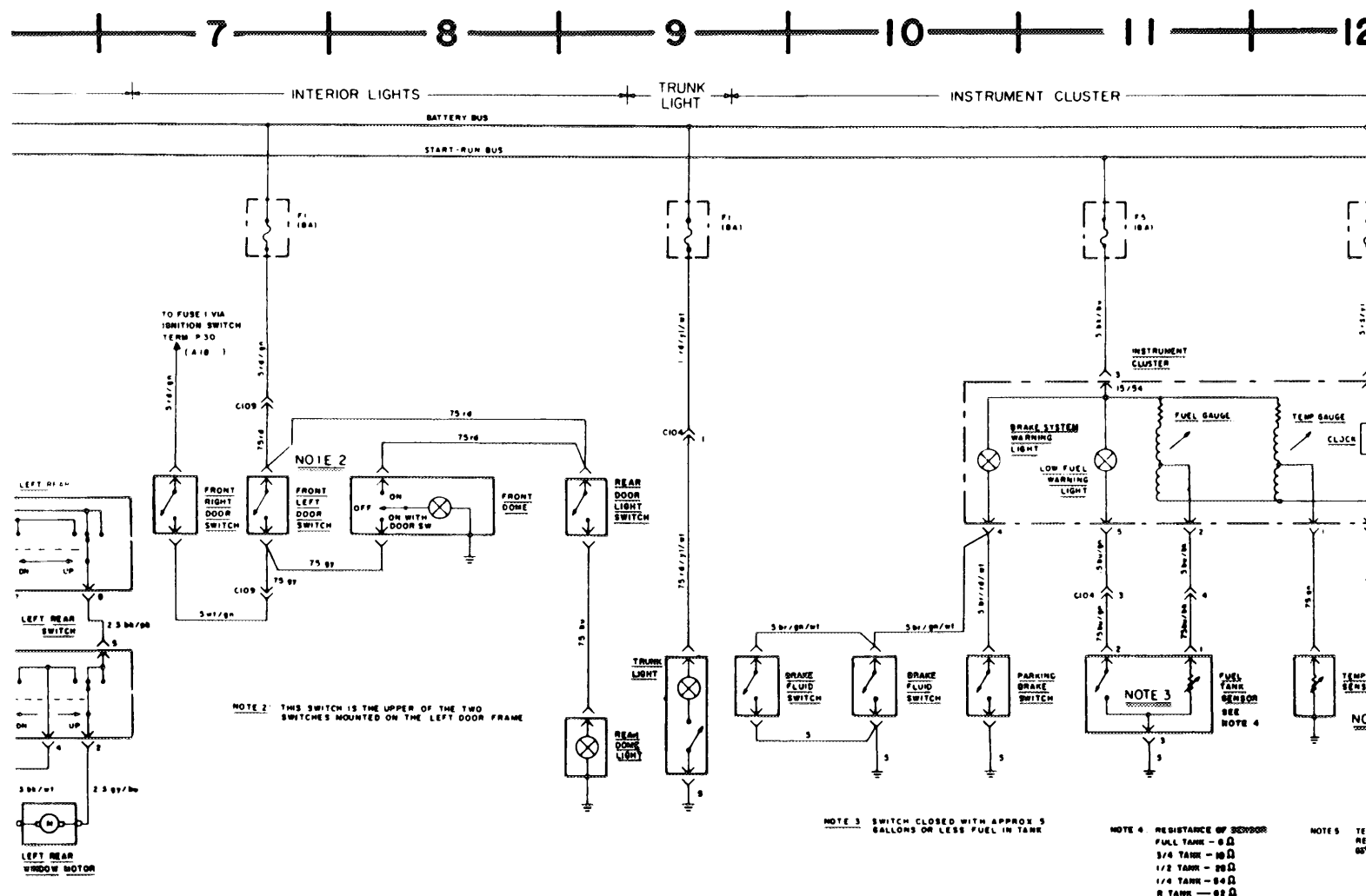
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NOTE 5 WINDING (1) WILL ENGAGE STARTER
WINDING (2) PROVIDES ADDITIONAL HOLDING POWER
TO ASSURE STARTER DOES NOT DROP OUT DUE TO
LOW BATTERY BUS VOLTAGE DURING STARTING
WINDING (2) ALONE WILL NOT KEEP STARTER
ENGAGED

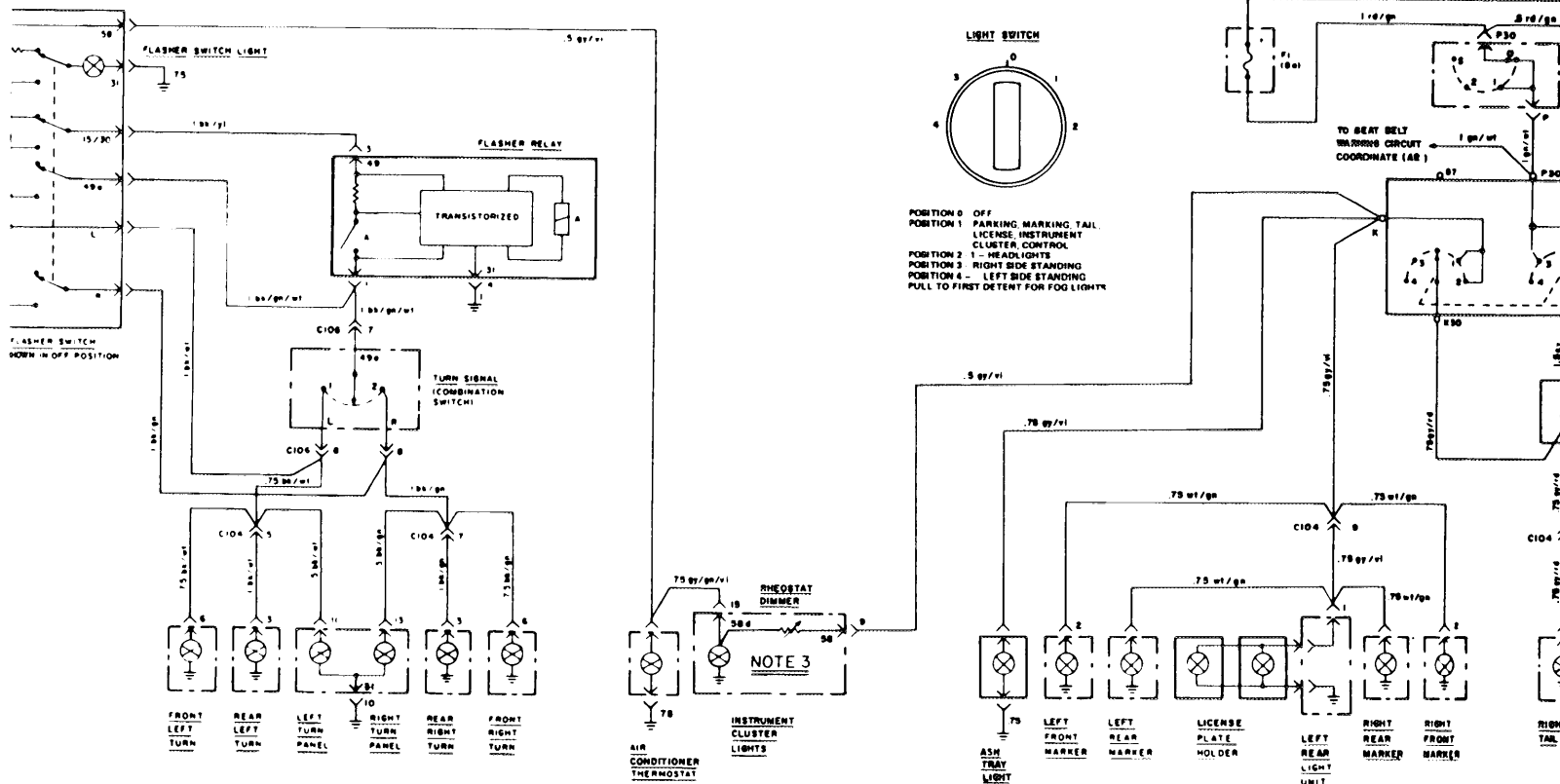


TURN SIGNAL AND FLASHER

CONTROL LIGHTS

BATTERY BUS

START-RUN BUS



NOTE 3 THERE ARE 5 INSTRUMENT CLUSTER BULBS IN PARALLEL

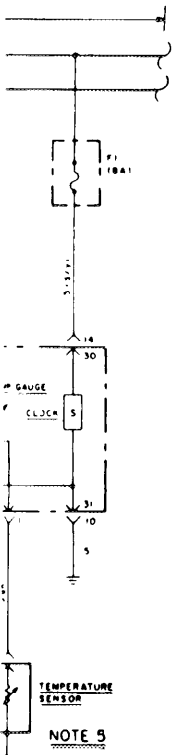
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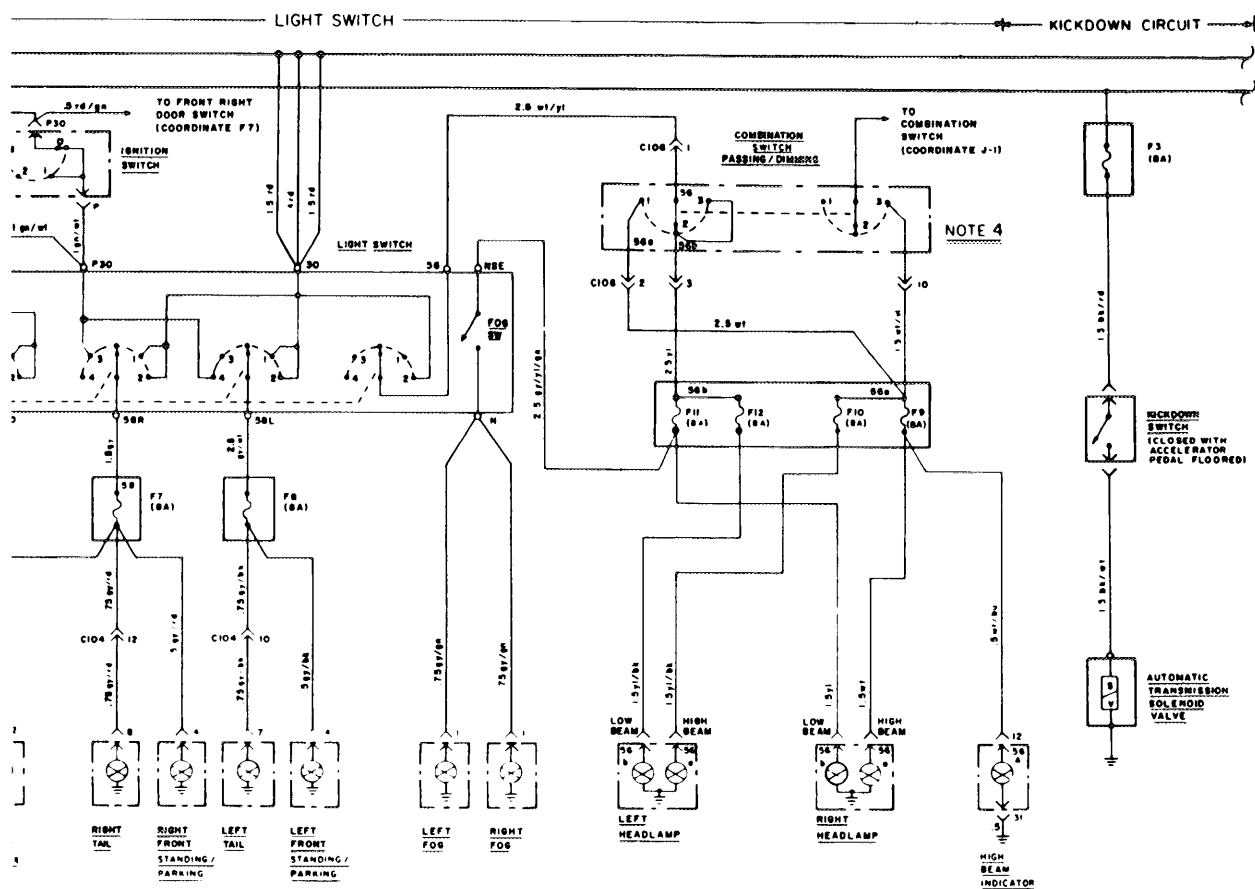
COMPONENT INDEX

SYSTEM/ COMPONENT	LOCATION ON VEHICLE	LOC FIG NO	TERM FIG NO	SYSTEM/ COMPONENT	LOCATION ON VEHICLE	LOC FIG NO	TERM FIG NO
CHARGE Regulator C105	Alternator Firewall			TRUNK LIGHT C104 (12 pins)	Under dash, driver's side	6	T4
ELECTRIC WINDOWS Front seat switch Window relay—key 10 C108	Front seat console Right firewall under fuse bracket Console		T8 T7	TURN SIGNAL AND FLASHER Flasher relay C104 (12 pins) C106 (14 pins)	Under dash, driver's side Under dash, driver's side Under dash, driver's side	6 6 6	T4 T4 T5
GLOW PLUGS A/C starter relay, key 4 Glow plug resistance control Glow starter switch Starter Lockout switch C101	rt. firewall—under fuse bracket Dash L. side trans. (auto trans.) top of trans. (stand. trans.) lower center console		T7				
INSTRUMENT CLUSTER Brake fluid switches Coolant temp. sensor Fuel tank sensor Parking brake switch C104 (12 pins)	Reservoir Left front cylinder head Trunk Top parking brake Under dash, driver's side		9 6				T4
INTERIOR LIGHTS C109	Console						
KICKDOWN CIRCUIT Switch	Below accelerator pedal		8				
LIGHT SWITCH C104 (12 pins) C106 (14 pins)	Under dash, driver's side Under dash, driver's side		6 6				T4 T5
SEAT BELT WARNING Ignition warning switch Warning unit	Ignition switch Under dash, driver's side		T12				
SLIDE ROOF Motor	Behind spare tire						
START AC/Starter relay, key 4	Right firewall, under fuse bracket		T7				



1 - Main fuse box
 2 - Heater blower motor
 3 - Brake fluid switch
 4 - Wiper motor





18 19 20 21 22 23

LOCATION FIGURES

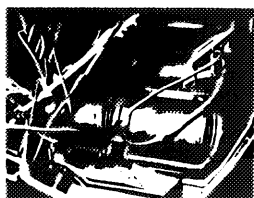


Fig 1
1 - A/C Blower motor

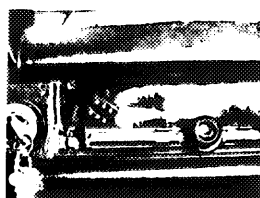


Fig 4
1 - C 113

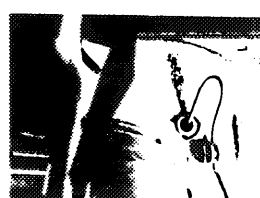


Fig 7
1 - C 112



Fig 2
1 - Charge over switch



Fig 5
1 - Temperature switch, refrigerant



Fig 8
1 - Kickdown switch



Fig 3
1 - Main fuse box
2 - Heater blower pre resistors
3 - Brake fluid switches
4 - Wiper motor



Fig 6
1 - Flasher relay
2 - Time delay relay, heated rear window
3 - Interval wiper timer
4 - C 104
5 - C 106

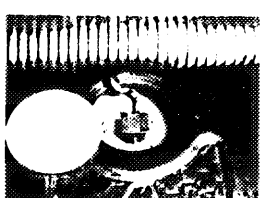
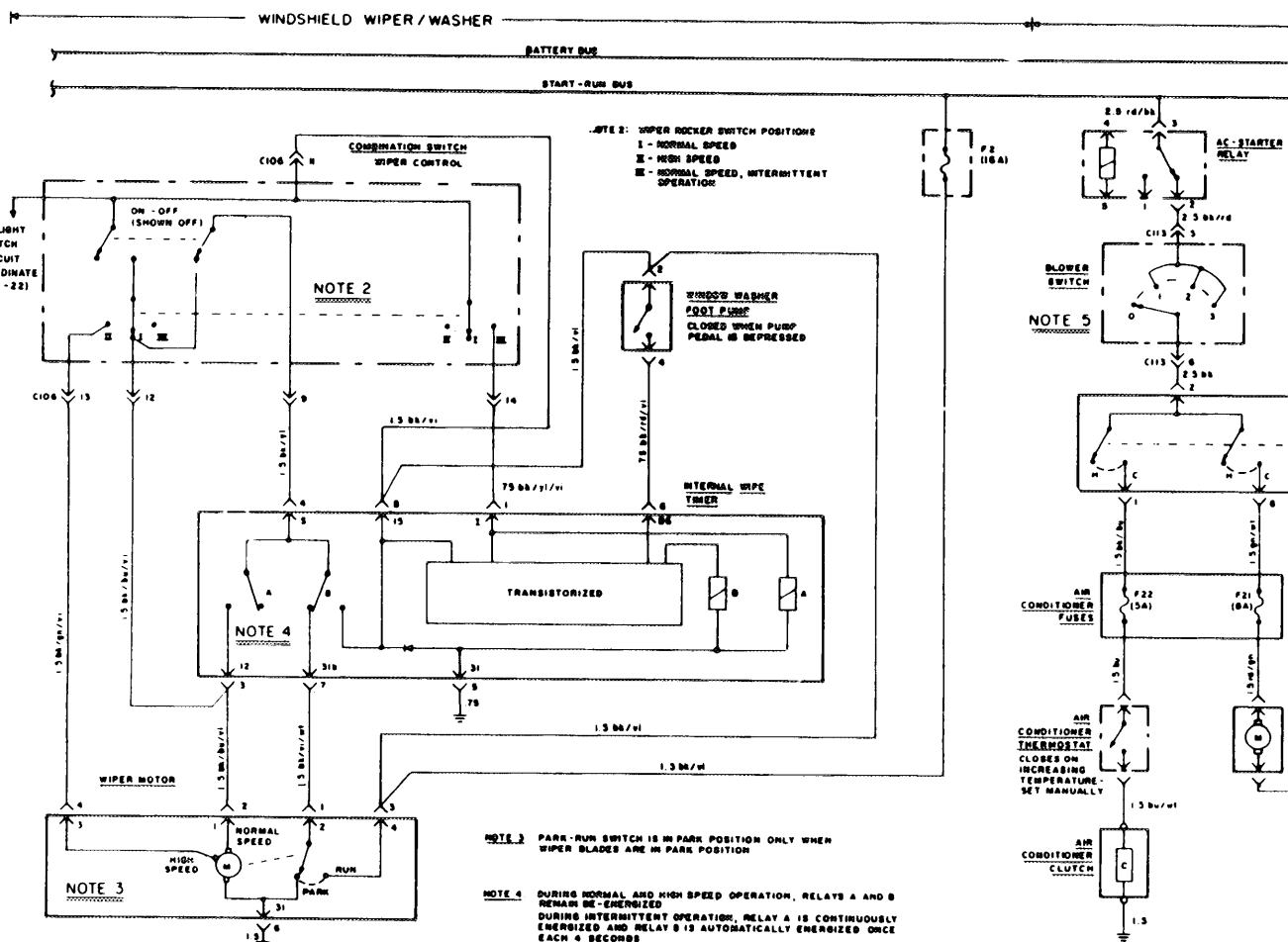


Fig 9
Fuel tank sensor

AIR CONDIO
 AUXILIARY FA
 BLOWER MOT
 CHARGE
 CIGAR LIGHTS
 CLOCK
 COOLANT TEM
 FUEL GAUGE
 GLOW PLUGS
 HEATED REAR
 HEATER CONT
 HORNS
 KICKDOWN
 LIGHT CIRCUIT
 AIR CONDI
 BACKUP
 BRAKE
 BRAKE SY
 CIGAR LIG
 FOG
 GLOVE BO
 HEAD
 INSTRUME
 INTERIOR
 LOW FUEL
 MARKER
 PARKING
 STANDING
 TAIL
 TRUNK
 RADIO
 ANTENNA
 SEAT BELT WA
 SLIDING ROOF
 START
 TURN SIGNAL/
 WINDOWS
 WINDSHIELD W
 POWER BUS DE
 SPECIAL GROU

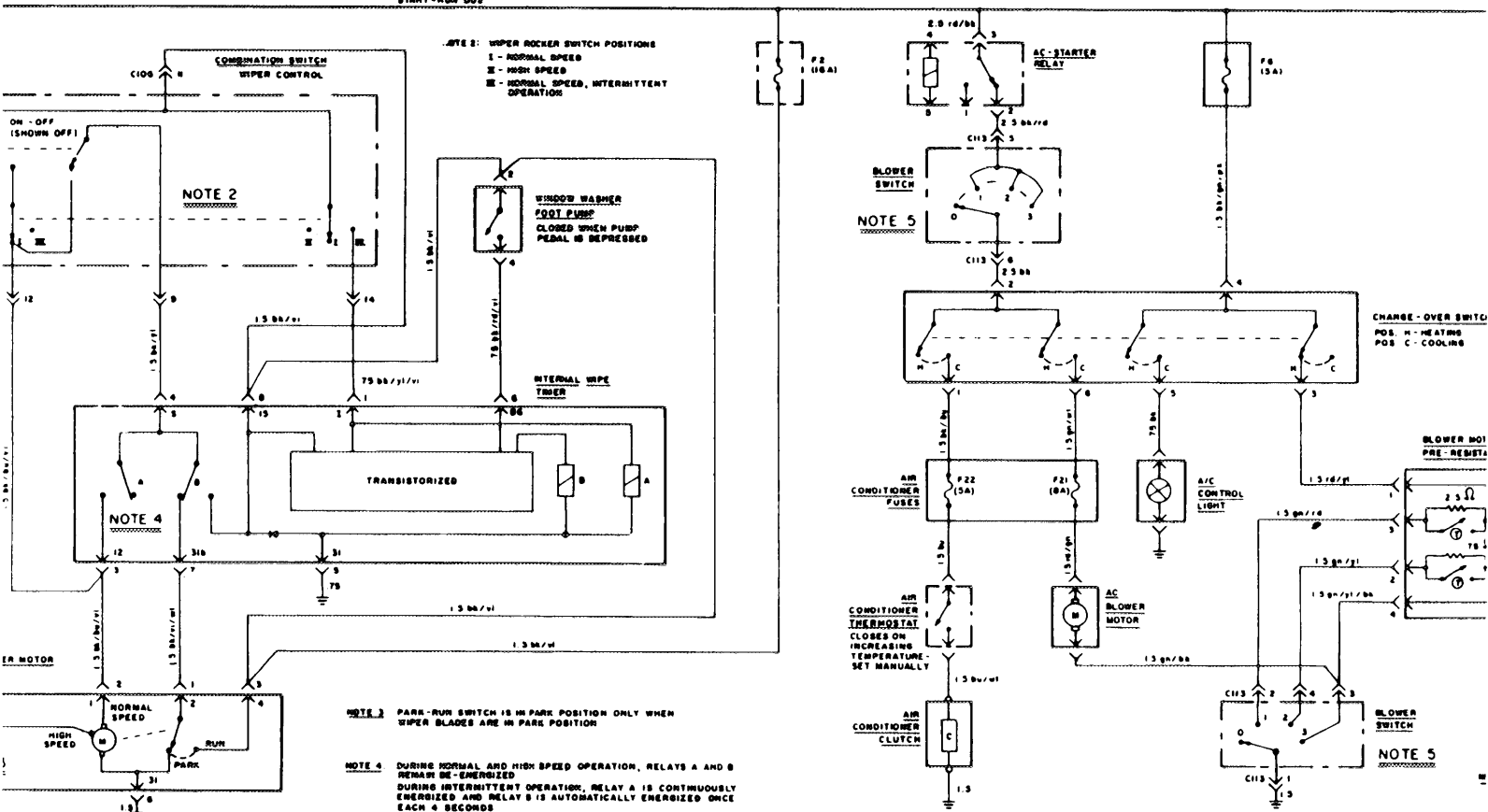


COMPONENT INDEX

SYSTEM/ COMPONENT	LOCATION ON VEHICLE	LOC FIG NO	TERM FIG NO	SYSTEM/ COMPONENT	LOCATION ON VEHICLE	LOC FIG NO	TERM FIG NO
AIR CONDITIONING/HEATING							
AC blower motor	Center of console	1	T7				
AC/Starter relay, key 4	Right firewall under fuse bracket						
Change-over switch	Console, left side	3	T2				
Fuse 21 (AC Blower)	Right firewall — aux. box						
Fuse 22 (AC clutch)	Right firewall — aux. box						
Heater blower motor	Forward of AC blower	4	T2				
preresistor							
C 113	Mounted to heater control lever plate						
AUXILIARY FAN							
Aux. fan relay, key 6	Below radio fuse	5					
Fuse 20 (aux. fan)	Left fender — aux. box						
Temp. switch — engine	Thermostat housing						
Temp. switch — refrigerant	Right firewall						
BACKUP							
C 104 (12 pins)	Under dash — driver's side	6	T4				
BRAKE LIGHTS							
Switch	Above brake pedal	6	T4				
C 104 (12 pins)	Under dash — driver's side						
HEATED REAR WINDOW							
Time delay relay	Under dash — driver's side	6	T14				
Fuse 19 (window)	Left fender — aux. box	7					
C 112	Behind rear seat — right side						
HORNS							
C 106 (14 pins)	Under dash — driver's side	6	T5				
WINDSHIELD WIPER/WASHER							
Interval wipe timer	Under dash — driver's side	6	T10				
Wiper motor	Firewall — left side	3					
C 106 (14 terminal)	Under dash — driver's side	6	T5				

BATTERY BUS

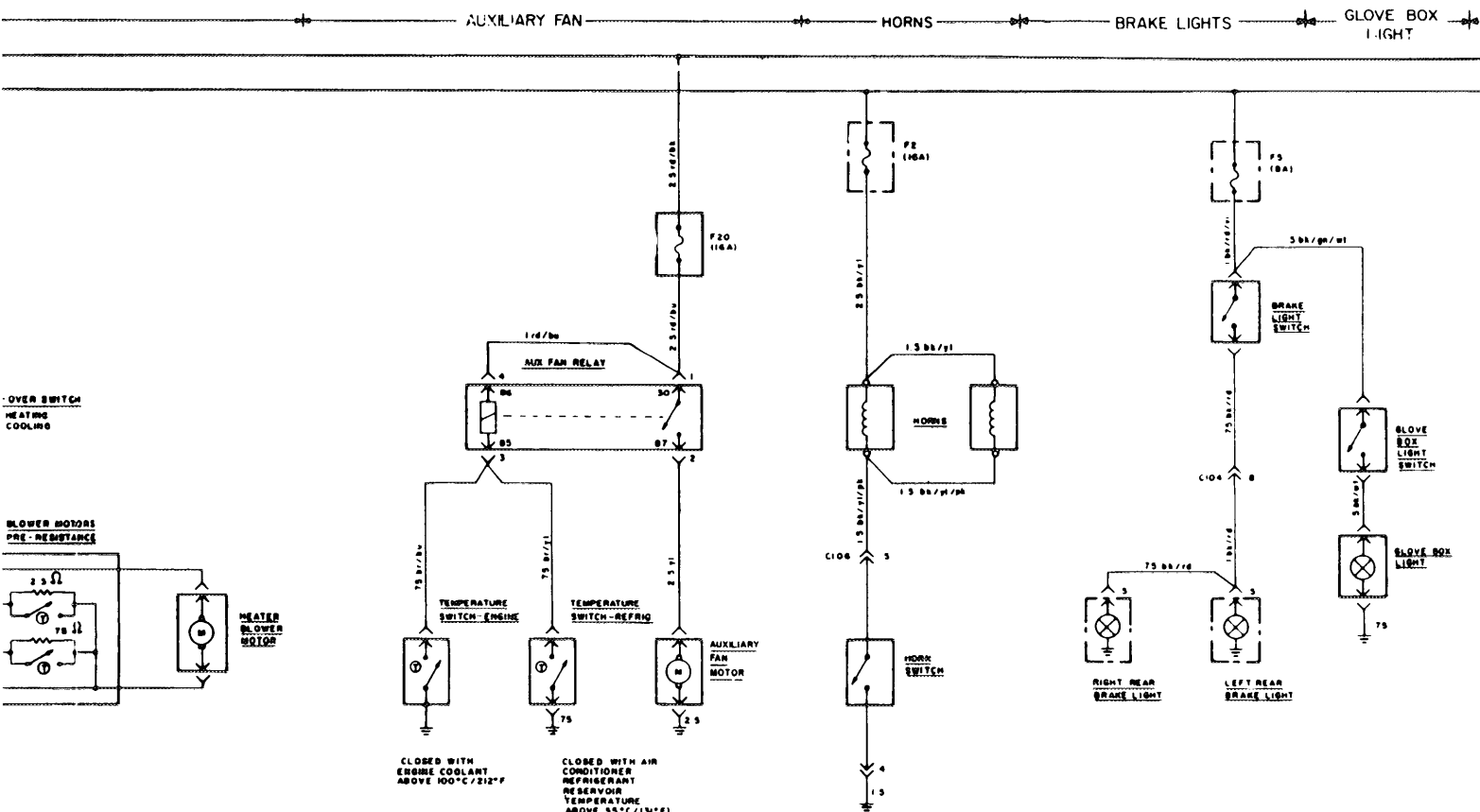
START-RUN BUS



COMPONENT INDEX

LOCAL

	LOCATION ON VEHICLE	LOC FIG NO	TERM FIG NO	SYSTEM/ COMPONENT	LOCATION ON VEHICLE	LOC FIG NO	TERM FIG NO
WIPER	Center of console	1	T7				
	Right firewall under fuse bracket						
	Console, left side						
	Right firewall - aux. box						
	Right firewall - aux. box	3					
	Forward of AC blower						
	Mounted to heater control lever plate	4	T2				
	Below radio fuse						
	Left fender - aux. box	5					
	Thermostat housing						
WASHER	Right firewall						
	Under dash - driver's side	6	T4				
	Above brake pedal						
	Under dash - driver's side	6	T4				
	Under dash - driver's side	6	T14				
	Left fender - aux. box						
	Behind rear seat - right side	7					
	Under dash - driver's side	6	T5				
	Under dash - driver's side	6	T10				
	Firewall - left side	3					
WIPER MOTOR	Under dash - driver's side	6	T5				
	Under dash - driver's side	6	T5				



5
NOTE 5
POS 0 - OFF
POS 1 - LOWSPEED
POS 2 - MEDIUM SPEED
POS 3 - HIGH SPEED



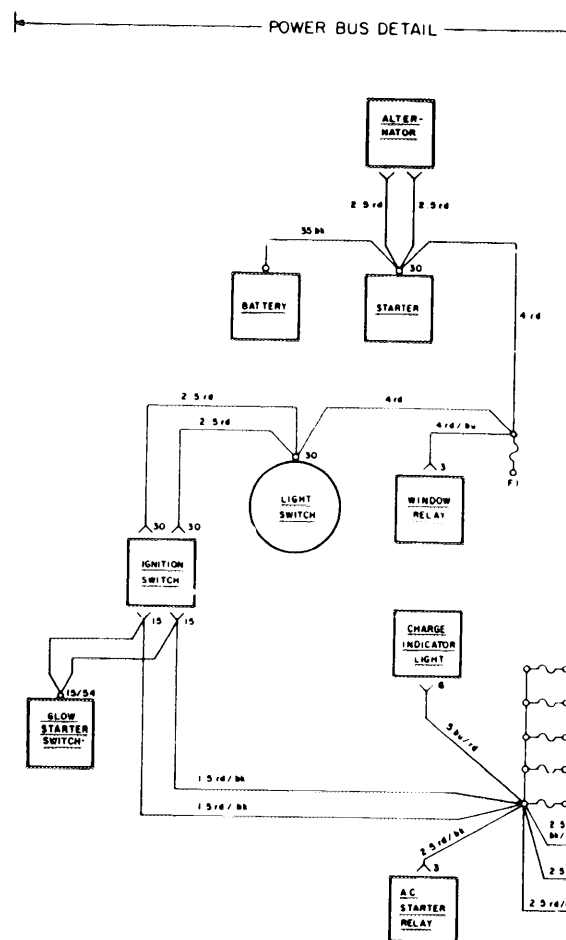
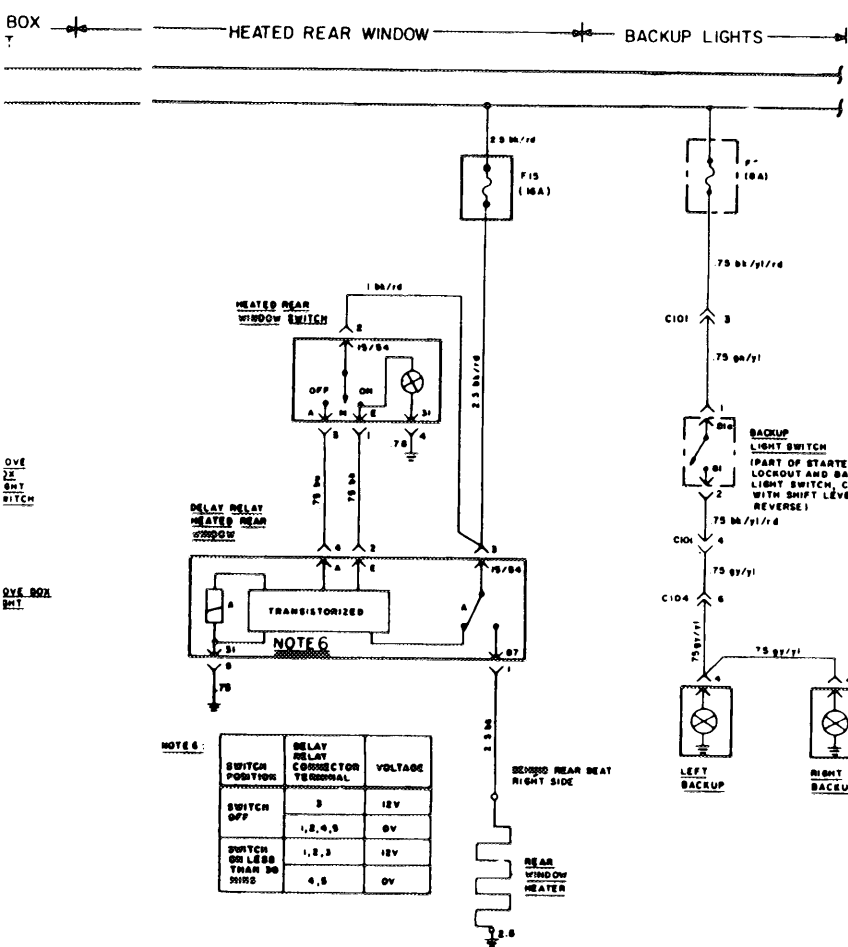
LOCATION FIGURES

FUSE DATA

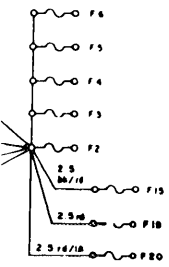
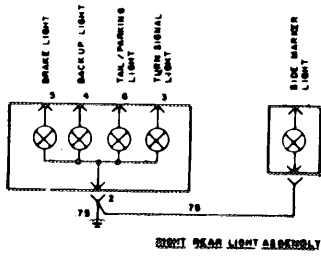
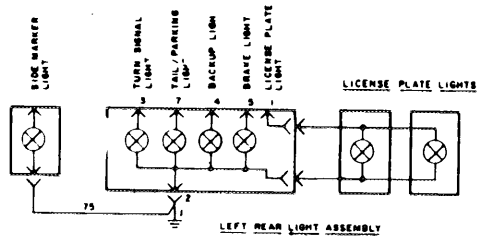
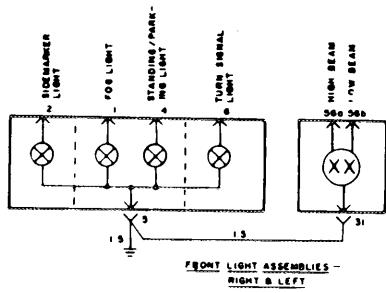
Fuse 1 (8 amps) Clock Flasher Interior lights Key Buzzer Trunk light	Fuse 8 (8 amps) Front standing/parking (left) Left tail light	Fuse 20 (16 amps) Auxiliary fan motor Auxiliary fan relay
Fuse 2 (16 amps) Cigar lighter Horns Windshield wiper/washer	Fuse 9 (8 amps) High beam indicator Right head lights, high beam	Fuse 21 (8 amps) A/C Blower motor
Fuse 3 (8 amps) Kickdown switch Auto transmission solenoid valve	Fuse 10 (8 amps) Left headlight, high beam	Fuse 22 (5 amps) Air conditioner clutch
Fuse 4 (8 amps) Turn signal	Fuse 11 (8 amps) Fog lights Right head light, low beam	
Fuse 5 (8 amps) Backup lights Brake lights Glove box light Instrument cluster Seat belt warning Window control	Fuse 12 (8 amps) Left head light, low beam	
Fuse 6 (5 amps) A/C control light Heater blower motor	Fuse 13 (8 amps) Radio antenna	
Fuse 7 (8 amps) A/C thermostat illumination Flasher illumination Front standing/parking (right) Instrument cluster lights Left and right markers License plate light Tail light (right) Ash tray light	Fuse 14 (8 amps) Radio	
	Fuse 15 (16 amps) Heated rear window	
	Fuse 16 Not used	
	Fuse 17 (16 amps) Left front window Right rear window (right)	
	Fuse 18 (16 amps) Left rear window Right front window	
	Fuse 19 (16 amps) Sliding roof	

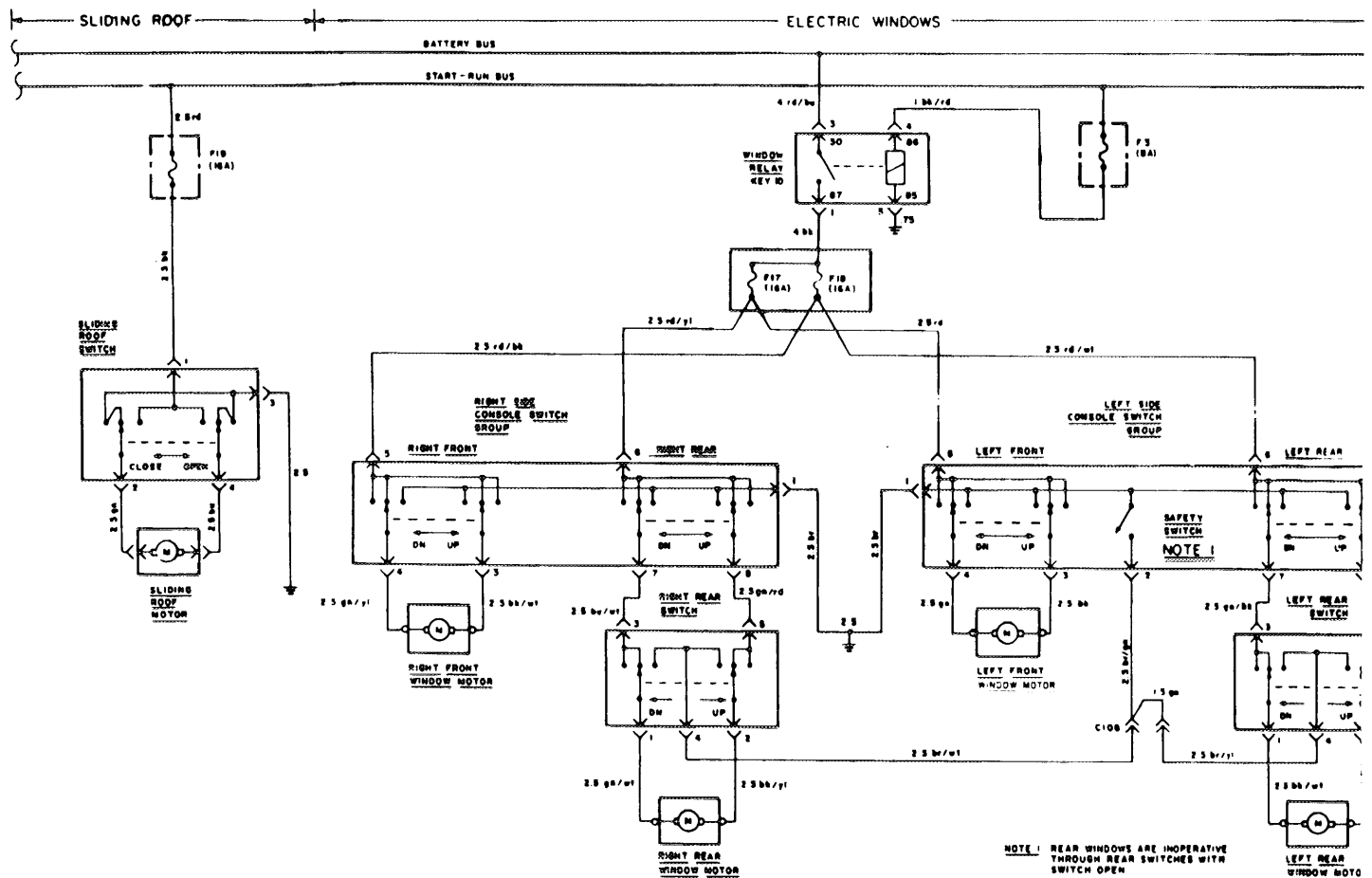
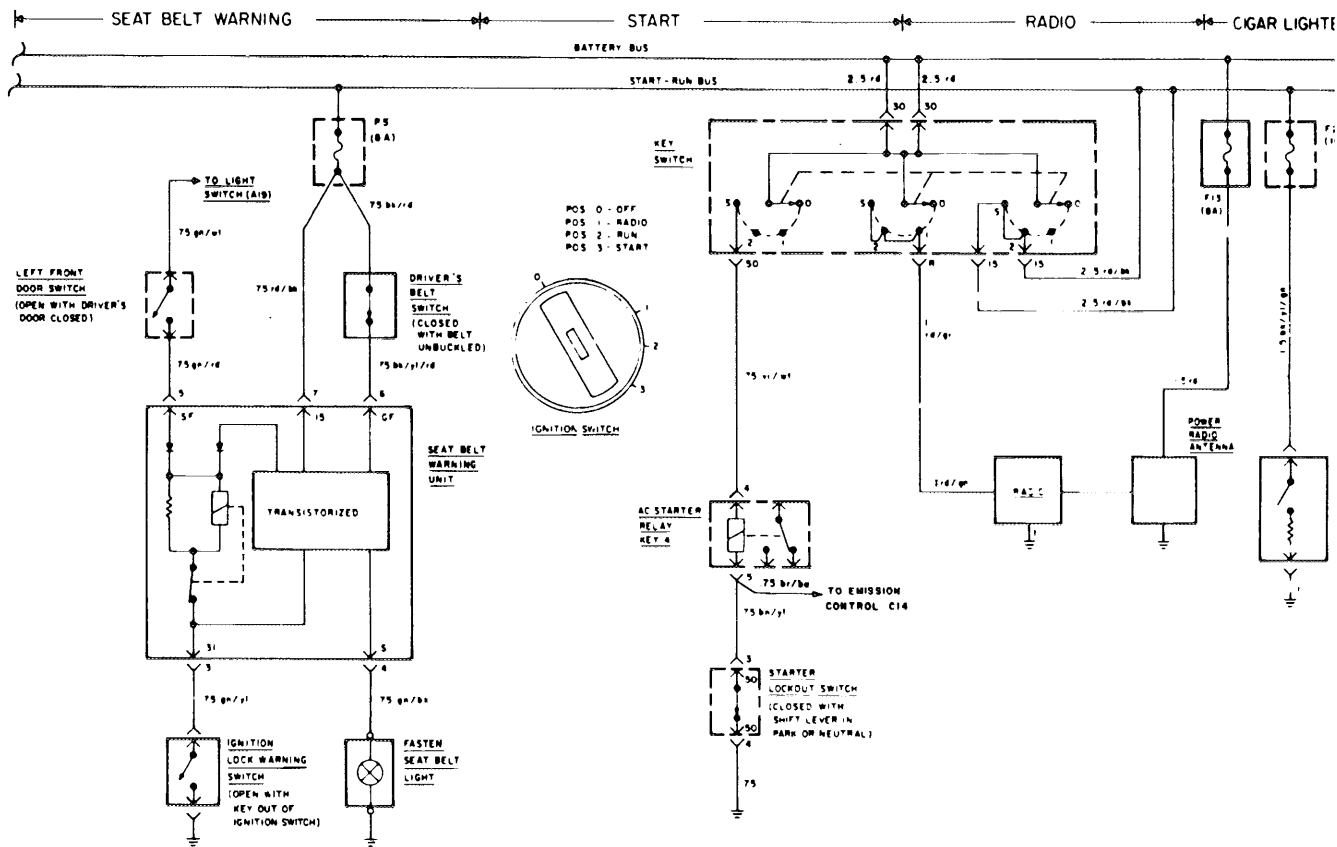
1975 240D

AIR CONDITIONING CONTROL	M6
AUXILIARY FAN	L10
BLOWER MOTOR CONTROL	K5
CHARGE	B9
CIGAR LIGHTER	B6
CLOCK	F12
COOLANT TEMPERATURE GAUGE	F12
FUEL GAUGE	F12
GLOW PLUGS	B4
HEATED REAR WINDOW	L14
HEATER CONTROL	L6
HORNS	L11
KICKDOWN	B22
LIGHT CIRCUITS	
AIR CONDITIONING THERMOSTAT	D14
BACKUP	M16
BRAKE	L12
BRAKE SYSTEM WARNING	F10
CIGAR LIGHTER	D15
FOG	D19
GLOVE BOX	L13
HEAD	D20/21
INSTRUMENT CLUSTER	C15
INTERIOR	F8
LOW FUEL WARNING	F11
MARKER	D16/D17
PARKING	D18
STANDING	D18
TAIL	D18
TRUNK	G9
RADIO	B5
ANTENNA	B6
SEAT BELT WARNING	B2
SLIDING ROOF	F1
START	B3/B10
TURN SIGNAL/FLASHER	B13
WINDOWS	F4
WINDSHIELD WIPER/WASHER	L3
POWER BUS DETAILS	L18
SPECIAL GROUNDING CIRCUITS	L21



SPECIAL GROUNDING CIRCUITS





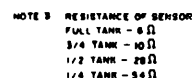


NOTE 2

WINDING 1 WILL ENGAGE STARTER
WINDING 2 PROVIDES ADDITIONAL
HOLDING POWER TO ASSURE STARTER
DOES NOT DROPOUT DUE TO LOW BAT-
TERY BUS VOLTAGE DURING STARTING
WINDING 2 ALONE WILL NOT KEEP
STARTER ENGAGED

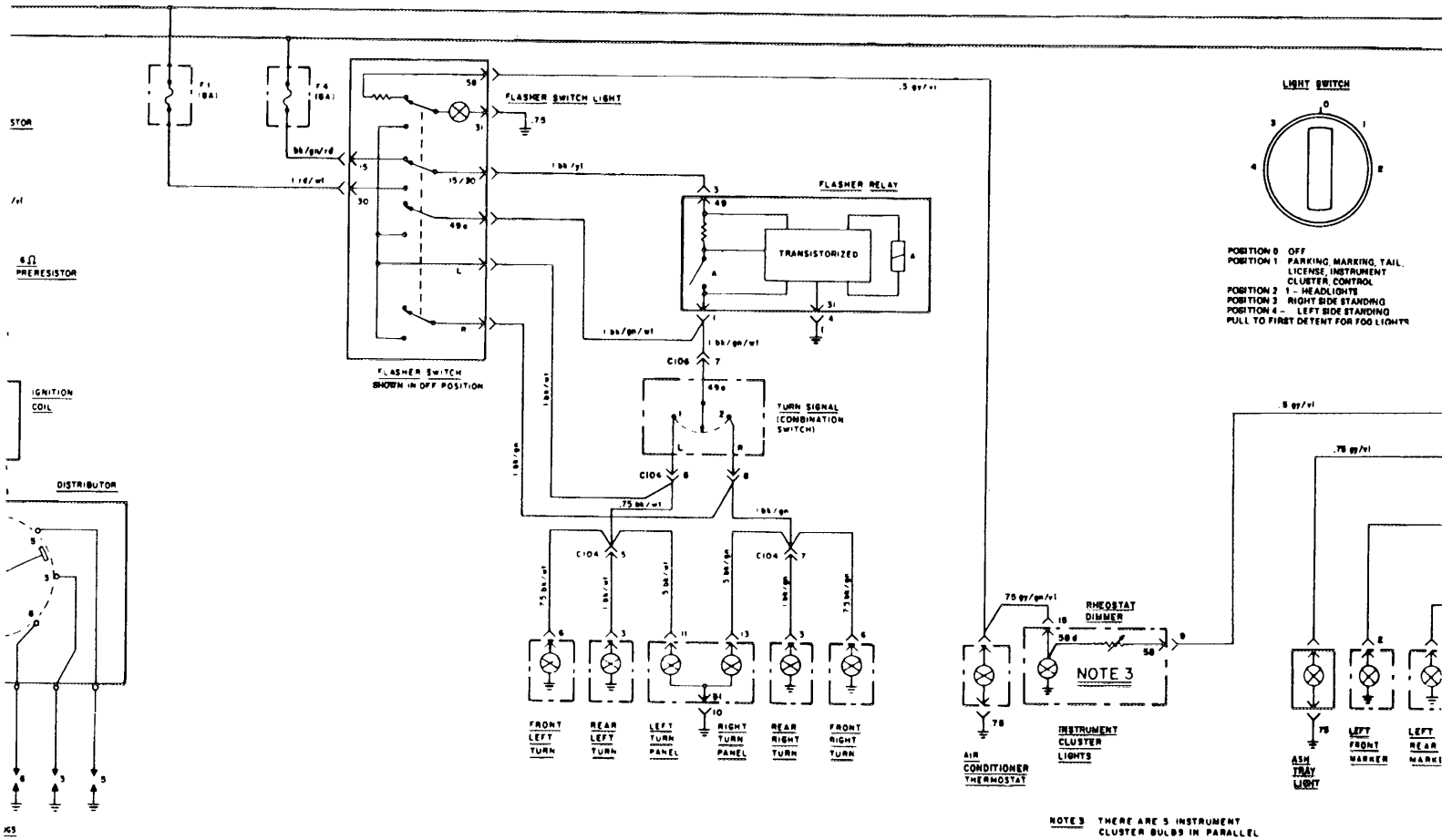
DIAGNOSI

CYL 1
FIRING
PULSE
TRANSMITTER



TURN SIGNAL AND FLASHER

CONTROL LIGHTS



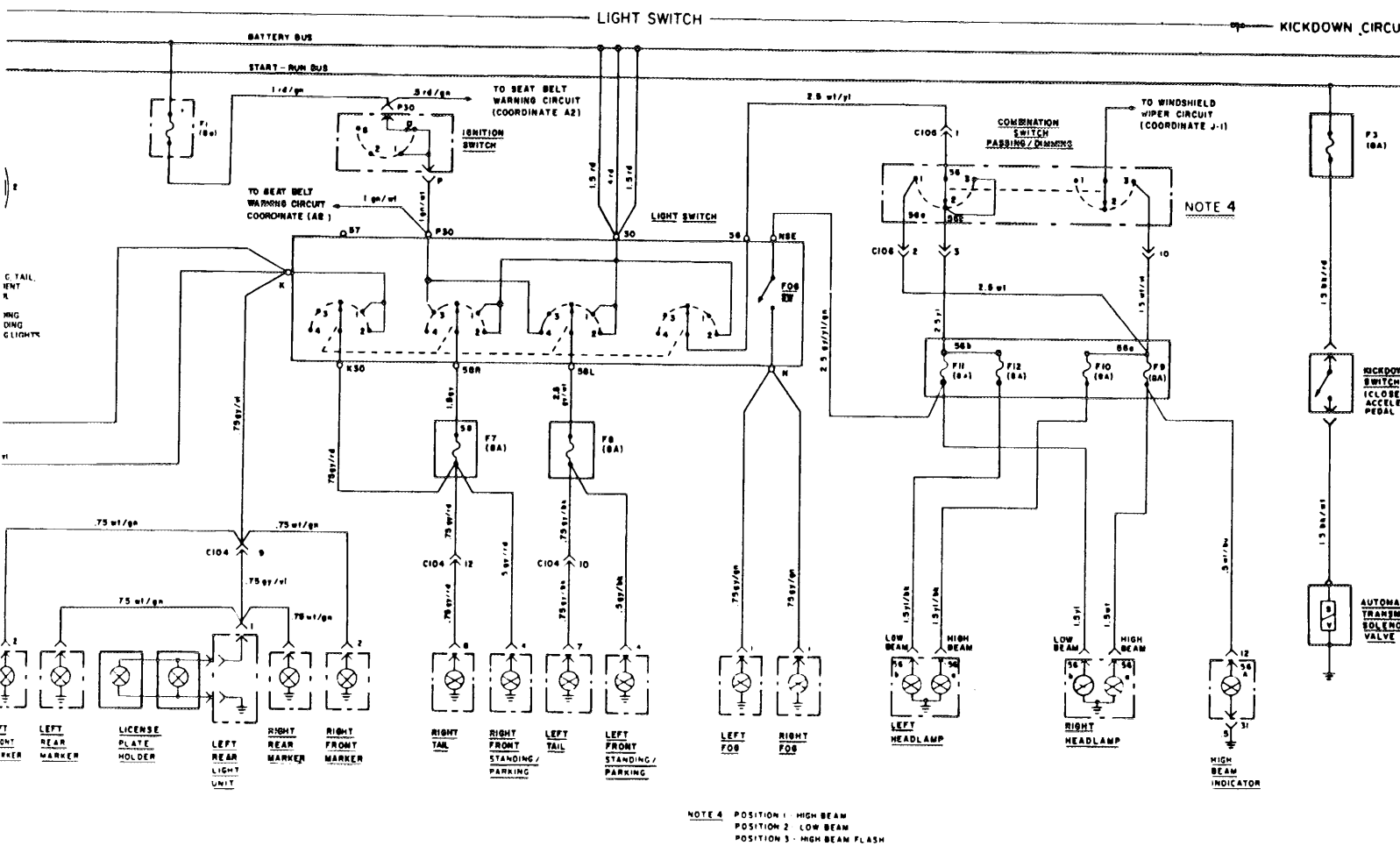
COMPONENT INDEX

SYSTEM/ COMPONENT	LOCATION ON VEHICLE	LOC FIG NO	TERM FIG NO	SYSTEM/ COMPONENT	LOCATION ON VEHICLE	LOC FIG NO	TERM FIG NO
CHARGE Regulator C 105	Alternator Firewall			TURN SIGNAL AND FLASHER Flasher relay C 104 (12 pins) C 106 (14 pins)	Under dash, driver's side Under dash, driver's side Under dash, driver's side	6 6	T6 T4 T5
ELECTRIC WINDOWS Front seat switch Window relay — key 10 C 108	Front seat console Right side under dash Console		T8 T7				
IGNITION SYSTEM Coil Distributor 4 Ohm preresistor 6 Ohm preresistor Transistorized ignition switching unit	Left front fender Left front fender Left front fender Left front fender	8 8 8					
INSTRUMENT CLUSTER Brake fluid switches Coolant temp sensor Fuel tank sensor Parking brake switch C 104 (12 pins)	Reservoir Right front cylinder head Trunk Top parking brake Under dash, driver's side	3 11 9	T4				
INTERIOR LIGHTS C 109	Console						
KICKDOWN CIRCUIT Switch	Below accelerator pedal	10					
LIGHT SWITCH C 104 (12 pins) C 106 (14 pins)	Under dash, driver's side Under dash, driver's side	6	T4 T5				
SEAT BELT WARNING Ignition warning switch Warning unit	Ignition switch Under dash, driver's side		T12				
SLIDING ROOF Motor	Behind spare tire						
START AC/Starter relay, key 4	Right side, under dash		T7				

1 — A/C Blc

1 — Change

1 — Main fu
2 — Heater t
3 — Brake fl
4 — Wiper m



LOCATION FIGURES

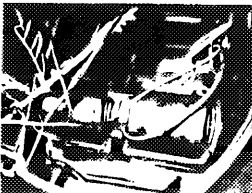


Fig 1
1 - A/C Blower motor

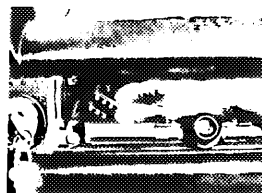


Fig 4
1 - C113

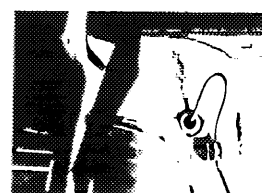


Fig 7
1 - C112



Fig 10
1 - Kickdown switch

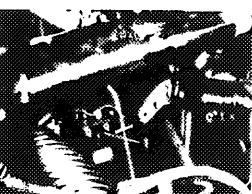


Fig 2
1 - Change over switch

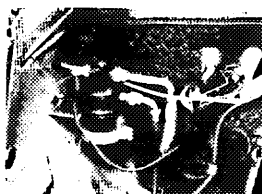


Fig 5
1 - Temperature switch, refrigerant



Fig 8
1 - RPM test plug
2 - Ignition coil
3 - 0.4 ohm pre-resistor
4 - 0.6 ohm pre-resistor
5 - Time delay relay



Fig 3
1 - Main fuse box
2 - Heater blower pre resistors
3 - Brake fluid switches
4 - Wiper motor



Fig 6
1 - Flasher relay
2 - Cruise control amplifier
6 - Interval wipe relay
8 - C 106
11 - C 119
10 - C 118
12 - C 120

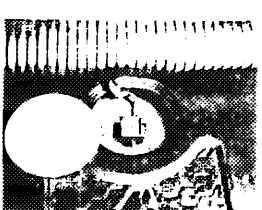
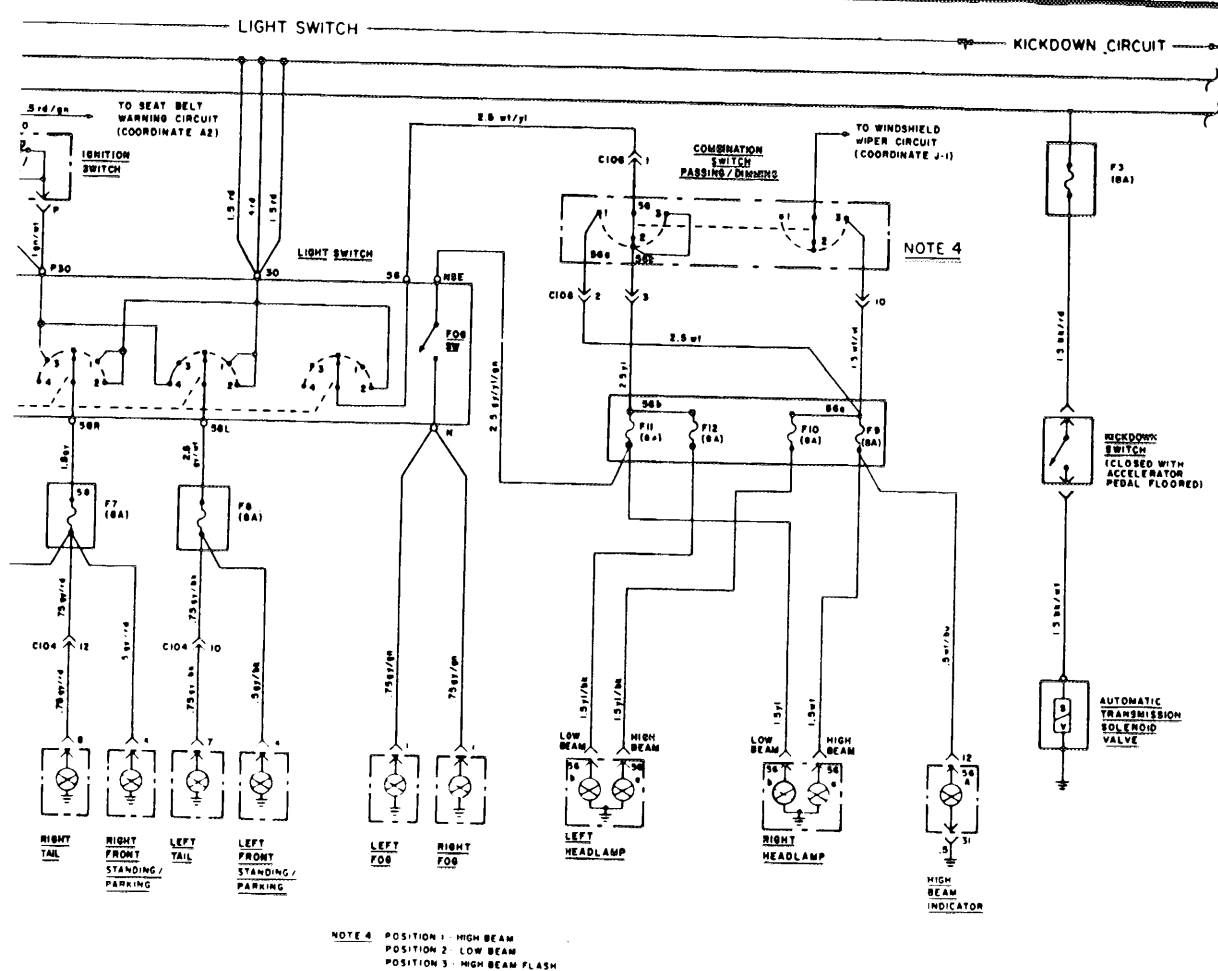


Fig 9
Fuel tank sensor

- AIR CONDITIONING
- AUXILIARY FAN
- BLOWER MOTOR C
- CHARGE
- CIGAR LIGHTER
- CLOCK
- COOLANT TEMPER
- ENGINE EMISSION
- FUEL GAUGE
- HEATED REAR WIN
- HEATER CONTROL
- HORNS
- IGNITION SYSTEM
- KICKDOWN
- LIGHT CIRCUITS
- AIR CONDITION
- BACKUP
- BRAKE
- BRAKE SYSTEM
- CIGAR LIGHTER
- FOG
- GLOVE BOX
- HEAD
- INSTRUMENT C
- INTERIOR
- LOW FUEL WAF
- MARKER
- PARKING
- STANDING
- TAIL
- TRUNK
- RADIO
- ANTENNA
- SEAT BELT WARNIN
- SLIDING ROOF
- START
- TURN SIGNAL/FLAS
- WINDOWS
- WINDSHIELD WIPER

POWER BUS DETAIL:
SPECIAL GROUNDING



A

B

C

D

20 21 22 23 24

LOCATION FIGURES

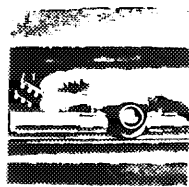
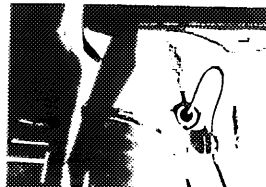
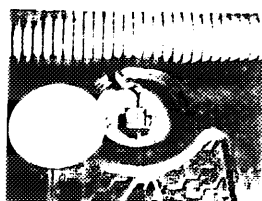


Fig. 4

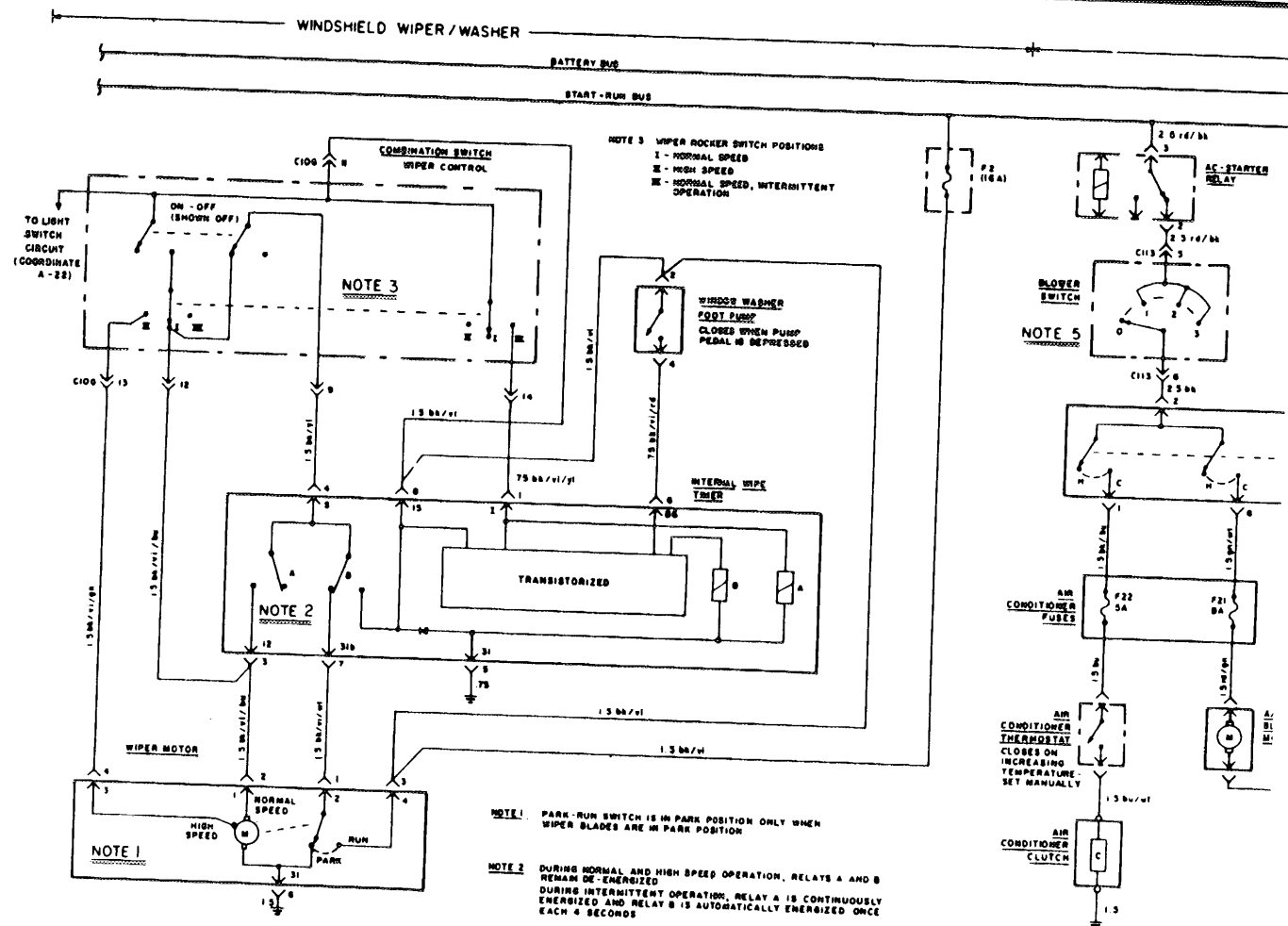


1 — C112

Fig. 10
1 — Kickdown switchFig. 5
nature switch, refrigerantFig. 8
1 — RPM test plug
2 — Ignition coil
3 — 0.4 ohm pre-resistor
4 — 0.6 ohm pre-resistor
5 — Time delay relayFig. 6
control amplifier
wiper relay
11 — C 119
12 — C 120Fig. 9
Fuel tank sensor

1975 280/280C

AIR CONDITIONING CONTROL	L6
AUXILIARY FAN	L10
BLOWER MOTOR CONTROL	K6
CHARGE	B8
CIGAR LIGHTER	C6
CLOCK	F12
COOLANT TEMPERATURE GAUGE	F12
ENGINE EMISSION CONTROL	L13
FUEL GAUGE	F11
HEATED REAR WINDOW	R5
HEATER CONTROL	L6
HORNS	L11
IGNITION SYSTEM	B11
KICKDOWN	B23
LIGHT CIRCUITS	
AIR CONDITIONING THERMOSTAT	D16
BACKUP	R6
BRAKE	R2
BRAKE SYSTEM WARNING	F11
CIGAR LIGHTER	D17
FOG	D21
GLOVE BOX	R1
HEAD	D22
INSTRUMENT CLUSTER	D16
INTERIOR	F7
LOW FUEL WARNING	F11
MARKER	D17/D18
PARKING	D20
STANDING	D20
TAIL	D20
TRUNK	F9
RADIO	B5
ANTENNA	B5
SEAT BELT WARNING	D2
SLIDING ROOF	F1
START	B4/B9
TURN SIGNAL/FLASHER	B13
WINDOWS	F4
WINDSHIELD WIPER/WASHER	L3
POWER BUS DETAILS	L20
SPECIAL GROUNDING CIRCUITS	L22



COMPONENT INDEX

SYSTEM/ COMPONENT	LOCATION ON VEHICLE	LOC FIG NO	TERM FIG NO	SYSTEM/ COMPONENT	LOCATION ON VEHICLE	LOC FIG NO	TERM FIG NO
AIR CONDITIONING/HEATING				HORNS			
AC blower motor	Center of console	1	T7	C 106 (14 pins)	Under dash—driver's side	6	T5
AC/Starter relay, key 4	Right side, under dash	2		WINDSHIELD WIPER/WASHER			
Change-over switch	Console, left side	3		Interval wipe relay	Under dash—driver's side	6	T10
Fuse 21 (AC blower)	Right firewall—aux. box	3		Motor	Firewall—left side	3	
Fuse 22 (AC clutch)	Right firewall—aux. box	3		C 106 (14 pins)	Under dash—driver's side	6	T5
Heater blower motor	Forward of AC blower	4	T2				
preresistor							
C 113 (6 pins)	Mounted to heater control lever plate	4					
AUXILIARY FAN							
Aux. fan relay, key 6	Right side, under dash	11					
Fuse 20 (aux. fan)	Left fender—AUX. BOX	5					
Temp. switch—engine (212 F)	Thermostat housing						
Temp. switch—refrigerant	Right firewall						
BACKUP							
C 104 (12 pins)	Under dash—driver's side		T4				
BRAKE LIGHTS							
Switch	Above brake pedal						
C 104 (12 pins)	Under dash—driver's side		T4				
CRUISE CONTROL							
Amplifier	Under dash, driver's side	6					
Speed sensor	Under dash, driver's side—speedometer cable	6					
Throttle actuator	Right fender, near hood spring	6					
C 118		6					
C 119		6					
C 120		6					
ENGINE EMISSION CONTROL							
Air injection switch-over valve	Right fender skirt	11					
EGR switch-over valve	Right fender skirt	11					
Ignition switch-over valve	Right fender skirt						
Relay box	Left fender						
RPM relay	Left fender						
Temperature switch	Oil filter mount						
Throttle lift switch-over valve	Right fender skirt						
HEATED REAR WINDOW							
Time delay relay	Under dash—driver's side		T14				
Fuse 19 (window)	Left fender—aux. box	7					
C 112	Behind rear seat—right side						

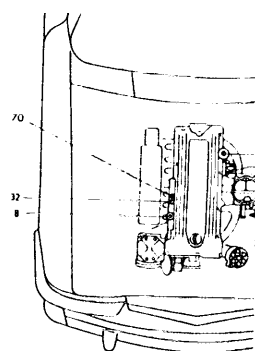


Fig. 11

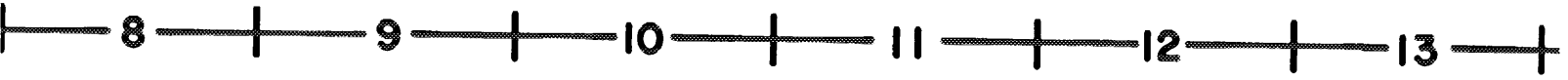
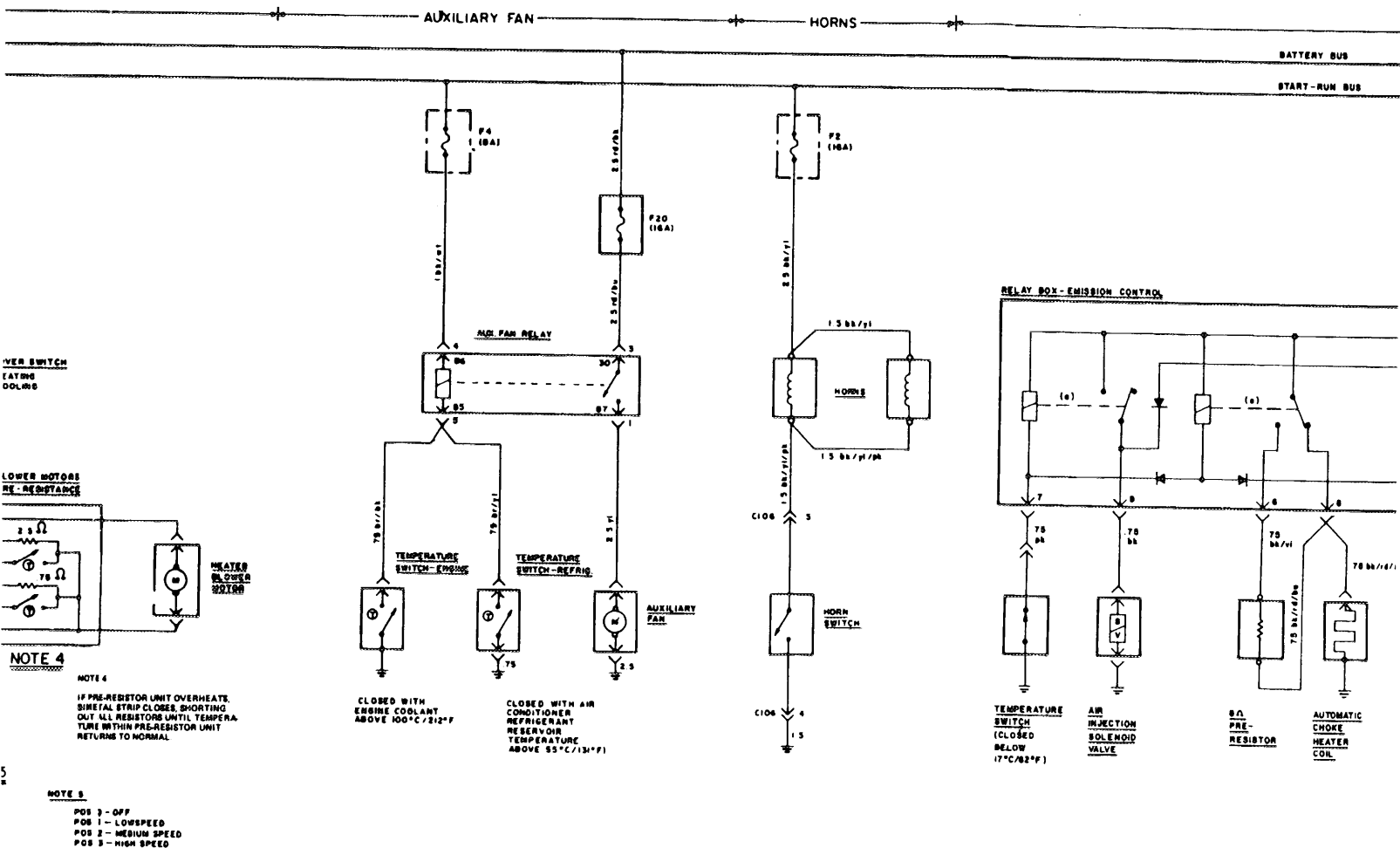
- 5 - Relay box
- 7 - 62 F (17 C) temperat
- 8 - 212 F (100 C) tempe
- 12 - Switch-over valve, EC
- 31 - EGR valve
- 32 - 149 F (65 C) temper
- 33 - Switch-over valve, air
- 37 - Switch-over valve, fu
- control system (greer
- 39 - Charcoal canister
- 46 - Resistor, automatic
- 54 - Vacuum booster
- 60 - Venturi connection
- 70 - Coolant temp. senso



LOCATIONS

Fig. 11

- 5 - Relay box
- 7 - 82 F (17 C) temperature switch
- 8 - 212 F (100 C) temperature switch
- 12 - Switch-over valve, EGR (brown)
- 31 - EGR valve
- 32 - 149 F (65 C) temperature switch
- 33 - Switch-over valve, air injection (blue)
- 37 - Switch-over valve, fuel evaporation control system (green)
- 39 - Charcoal canister
- 46 - Resistor, automatic choke cover
- 54 - Vacuum booster
- 60 - Venturi connection
- 70 - Coolant temp. sensor

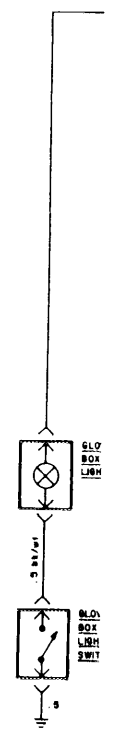


LOCATION FIGURES

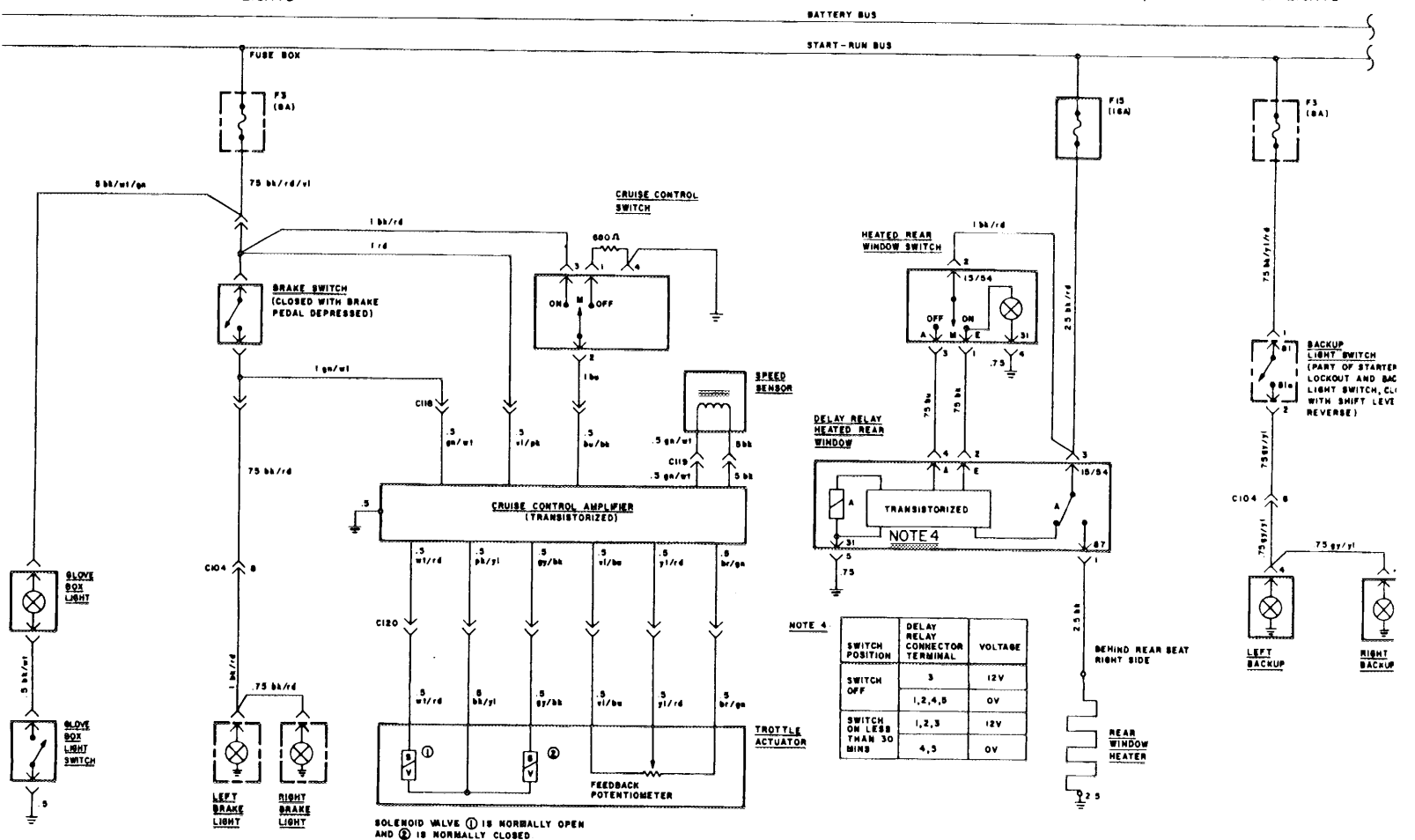
FUSE DATA		
Fuse 1 (8 amps)	Fuse 8 (8 amps)	Fuse 20 (16 amps)
Clock	Front standing parking	Auxiliary fan motor
Flasher	(left)	
Interior lights	Left tail light	Fuse 21 (8 amps)
Key Buzzer		A/C Blower motor
Trunk light	Fuse 9 (8 amps)	
	High beam indicator	Fuse 22 (5 amps)
Fuse 2 (16 amps)	Right head lights, high beam	Air Conditioner clutch
Cigar lighter		
Horns	Fuse 10 (8 amps)	
Windshield wiper/washer	Left headlight, high beam	
Fuse 3 (8 amps)		
Backup lights	Fuse 11 (8 amps)	
Brake lights	Fog lights	
Cruise control	Right head light, low beam	
Engine emission control		
Glove box light	Fuse 12 (8 amps)	
Instruments	Left head light, low beam	
Window control		
Fuse 4 (8 amps)		
Auxiliary fan	Fuse 13 (8 amps)	
Kickdown solenoid	Radio antenna	
Fuse 5 (8 amps)		
Seat belt warning	Fuse 14	
Fuse 6 (5 amps)		
A/C control light	Fuse 15 (16 amps)	
Heater blower motor	Heated rear window	
Fuse 7 (8 amps)		
A/C thermostat illumination	Fuse 16	
Flasher illumination	Not used	
Front standing parking (right)	Fuse 17 (16 amps)	
Instrument cluster lights	Left front window	
Left and right markers	Right rear window	
License plate light	Fuse 18 (16 amps)	
Tail light (right)	Left rear window	
	Right rear window	
	Fuse 19 (16 amps)	
	Sliding roof	

1975 280/280C	
AIR CONDITIONING CONTROL	L6
AUXILIARY FAN	L10
BLOWER MOTOR CONTROL	K6
CHARGE	B8
CIGAR LIGHTER	C6
CLOCK	F12
COOLANT TEMPERATURE GAUGE	F12
ENGINE EMISSION CONTROL	L13
FUEL GAUGE	F11
HEATED REAR WINDOW	R5
HEATER CONTROL	L6
HORNS	L11
IGNITION SYSTEM	B11
KICKDOWN	B23
LIGHT CIRCUITS	
AIR CONDITIONING THERMOSTAT	D16
BACKUP	R6
BRAKE	R2
BRAKE SYSTEM WARNING	F11
CIGAR LIGHTER	D17
FOG	D21
GLOVE BOX	R1
HEAD	D22
INSTRUMENT CLUSTER	D16
INTERIOR	F7
LOW FUEL WARNING	F11
MARKER	D17/D18
PARKING	D20
STANDING	D20
TAIL	D20
TRUNK	F9
RADIO	B5
ANTENNA	B5
SEAT BELT WARNING	D2
SLIDING ROOF	F1
START	B4/B9
TURN SIGNAL/FLASHER	B13
WINDOWS	F4
WINDSHIELD WIPER/WASHER	L3
POWER BUS DETAILS	
SPECIAL GROUNDING CIRCUITS	L22

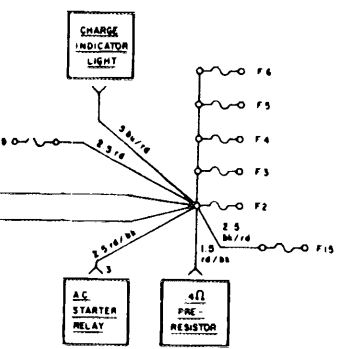
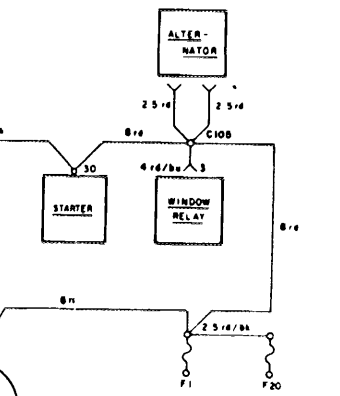
← GLOVE B



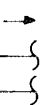
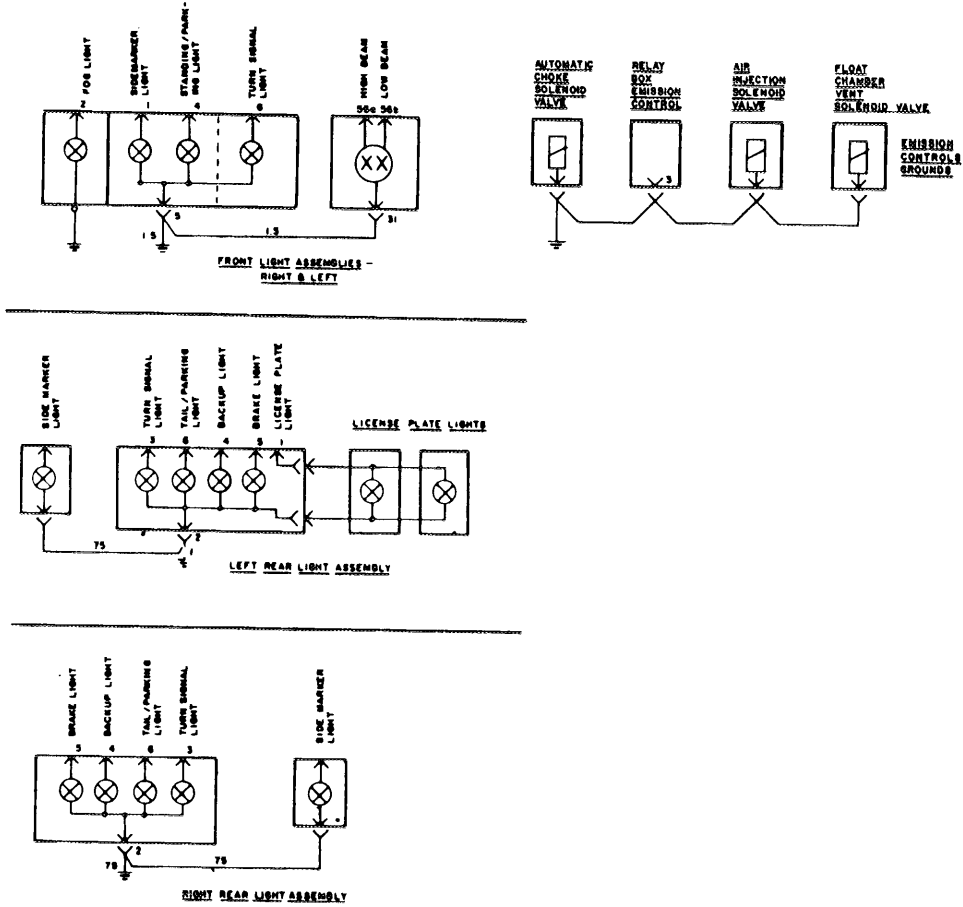
POWER BUS DE'



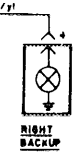
R BUS DETAIL



SPECIAL GROUNDING CIRCUITS

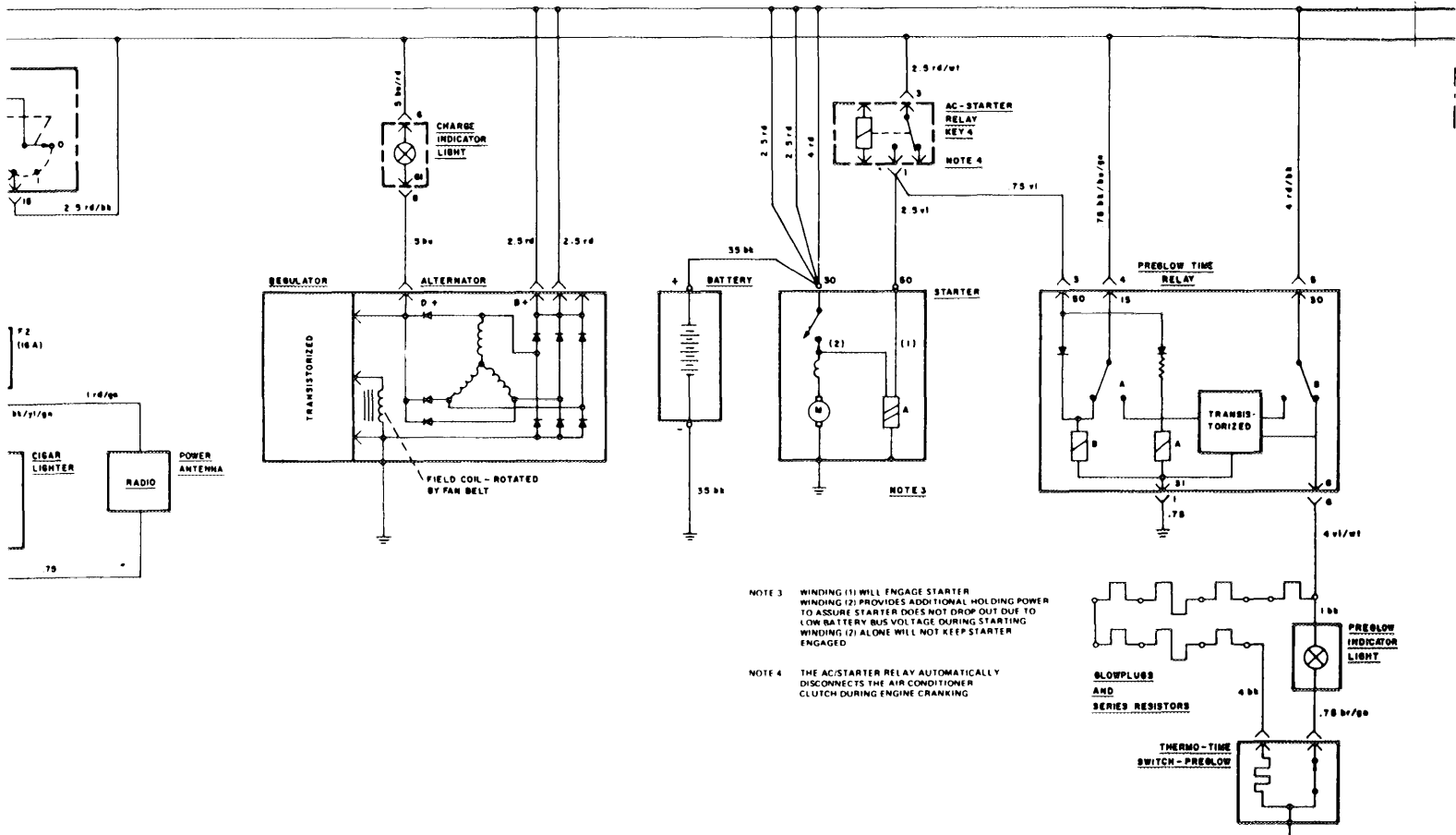


UP
T SWITCH
T OF STARTER-
OUT AND BACKUP
T SWITCH, CLOSED
SHIFT LEVER IN
RSE)



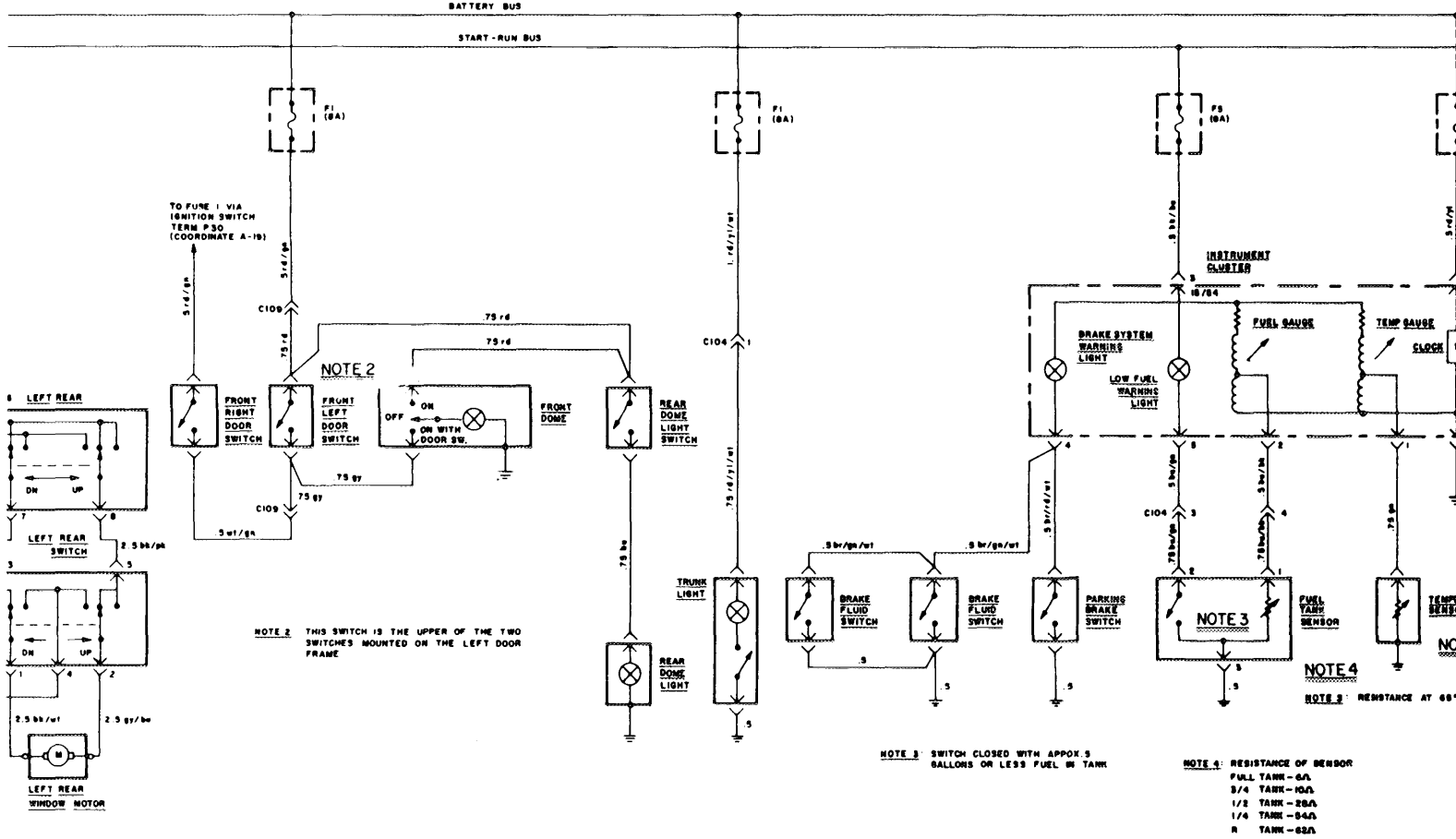
RIGHT
BACKUP

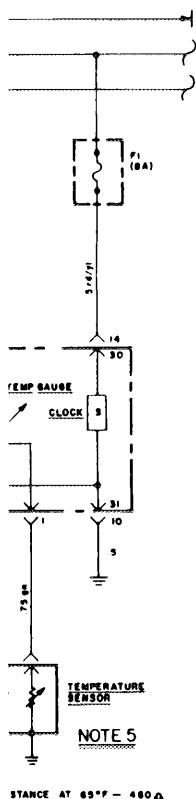
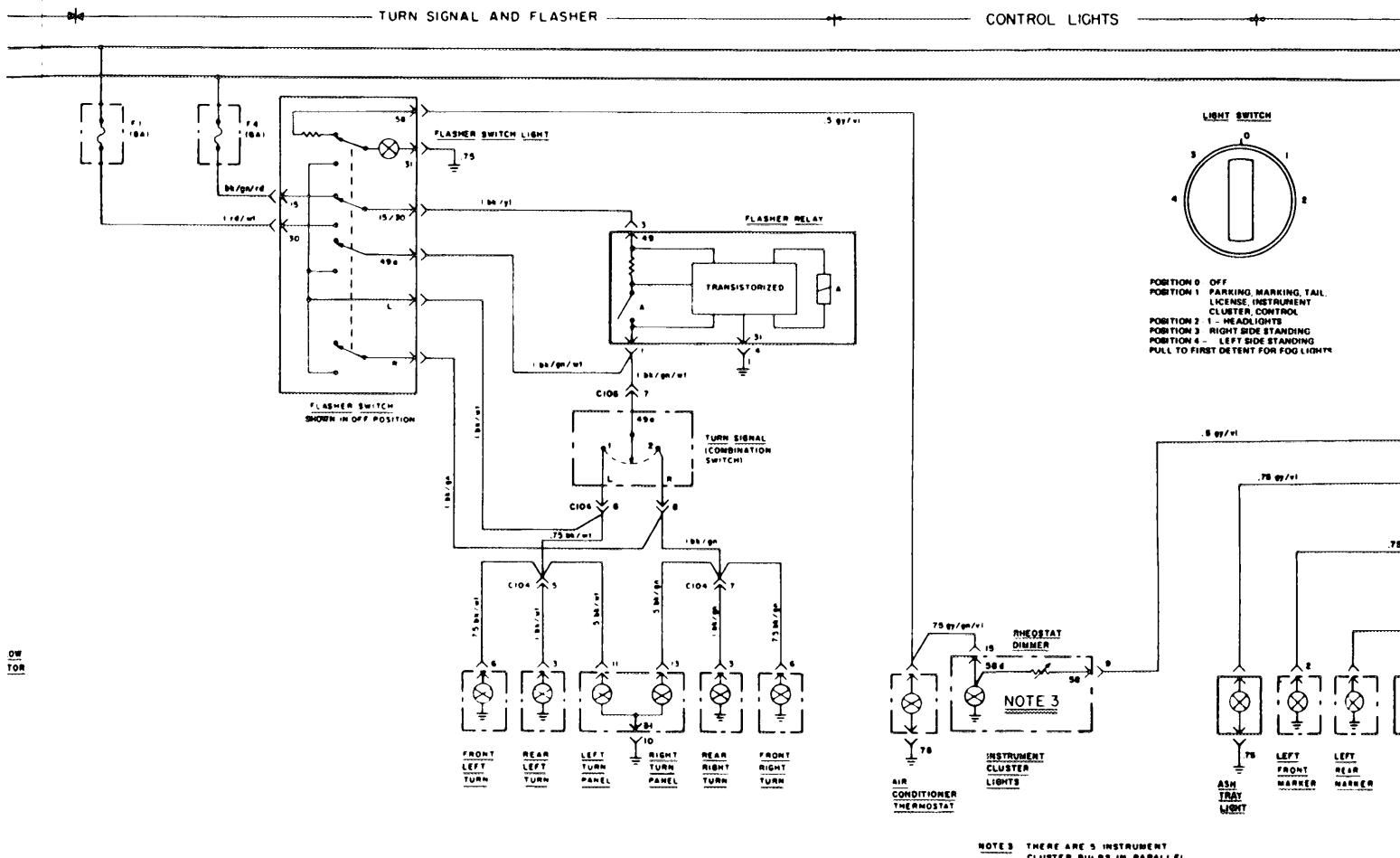
GAR HTER RADIO CHARGE START GLOW PLUG CIRCUIT



7 8 9 10 11 12

INTERIOR LIGHTS TRUNK LIGHT INSTRUMENT CLUSTER



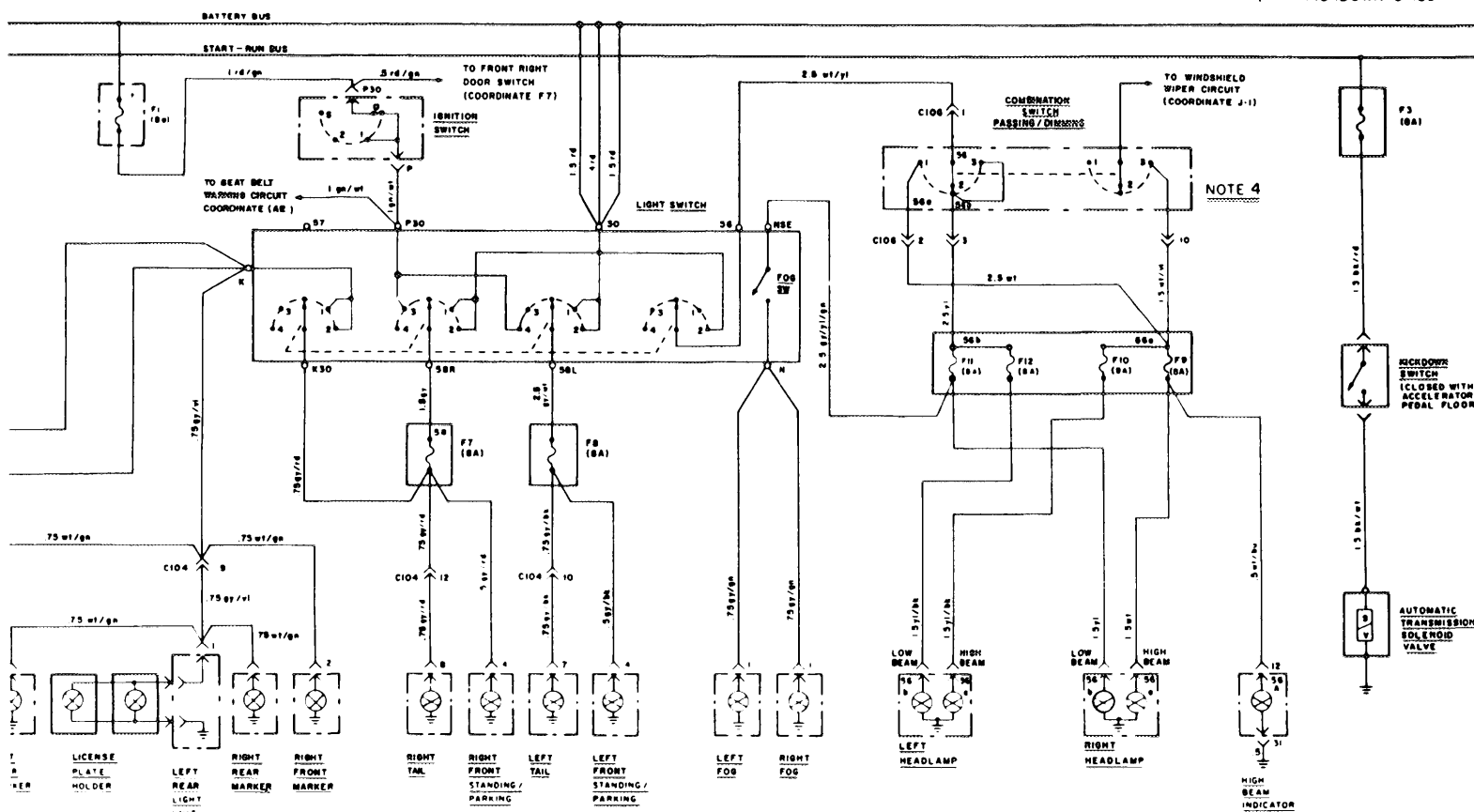


COMPONENT INDEX

SYSTEM/ COMPONENT	LOCATION ON VEHICLE	LOC FIG NO	TERM FIG NO	SYSTEM/ COMPONENT	LOCATION ON VEHICLE	LOC FIG NO	TERM FIG NO
CHARGE Regulator C 105	Alternator Firewall			TRUNK LIGHT C 104 (12 pins)	Under dash, driver's side	6	T4
ELECTRIC WINDOWS Front seat switch Window relay - key 10	Front seat console Right firewall under fuse bracket		T8 T7	TURN SIGNAL AND FLASHER Flasher relay C 104 (12 pins) C 106 (13 pins)	Under dash, driver's side Under dash, driver's side Under dash, driver's side	6 6 6	T6 T4 T5
C 108	Console						
GLow PLUG CIRCUIT Preglow time relay Thermo-time switch (preglow) AC-Starter Relay Key 4	Under dash, left side Engine block, left side Right firewall, under fuse bracket		T7				
INSTRUMENT CLUSTER Brake fluid switches Coolant temp sensor Fuel tank sensor Parking brake switch C 104 (12 pins)	Reservoir Left front cylinder head Trunk Top parking brake Under dash, driver's side	3 9 6	T4				
INTERIOR LIGHTS C 109	Console						
KICKDOWN CIRCUIT Switch	Below accelerator pedal	8					
LIGHT SWITCH C 104 (12 pins) C 106 (14 pins)	Under dash, driver's side Under dash, driver's side	6 6	T4 T5				
SEAT BELT WARNING Ignition warning switch Warning unit	Ignition switch Under dash, driver's side		T12				
SLIDING ROOF Motor	Behind spare tire						
START AC-Starter relay, key 4	Right firewall under fuse bracket		T7				



1 - Main
2 - Heat
3 - Brake
4 - Wipe



NOTE 4 POSITION 1 - HIGH BEAM
POSITION 2 - LOW BEAM
POSITION 3 - HIGH BEAM FLASH

LOCATION FIGURES



Fig 1
1 - A/C Blower motor

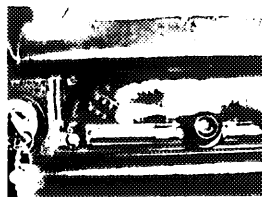


Fig 4
1 - C 113

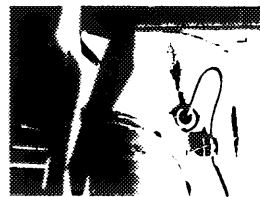


Fig 7
1 - C 112



Fig 2
1 - Change over switch



Fig 5
1 - Temperature switch, refrigerant



Fig 8
1 - Kickdown switch



Fig 3
1 - Main fuse box
2 - Heater blower pre resistors
3 - Brake fluid switches
4 - Wiper motor



Fig 6
1 - Flasher relay
2 - Time delay relay, heated rear window
3 - Interval wiper timer
4 - C 104
5 - C 106

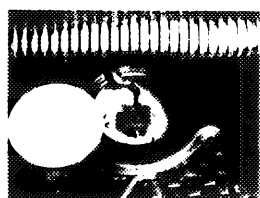
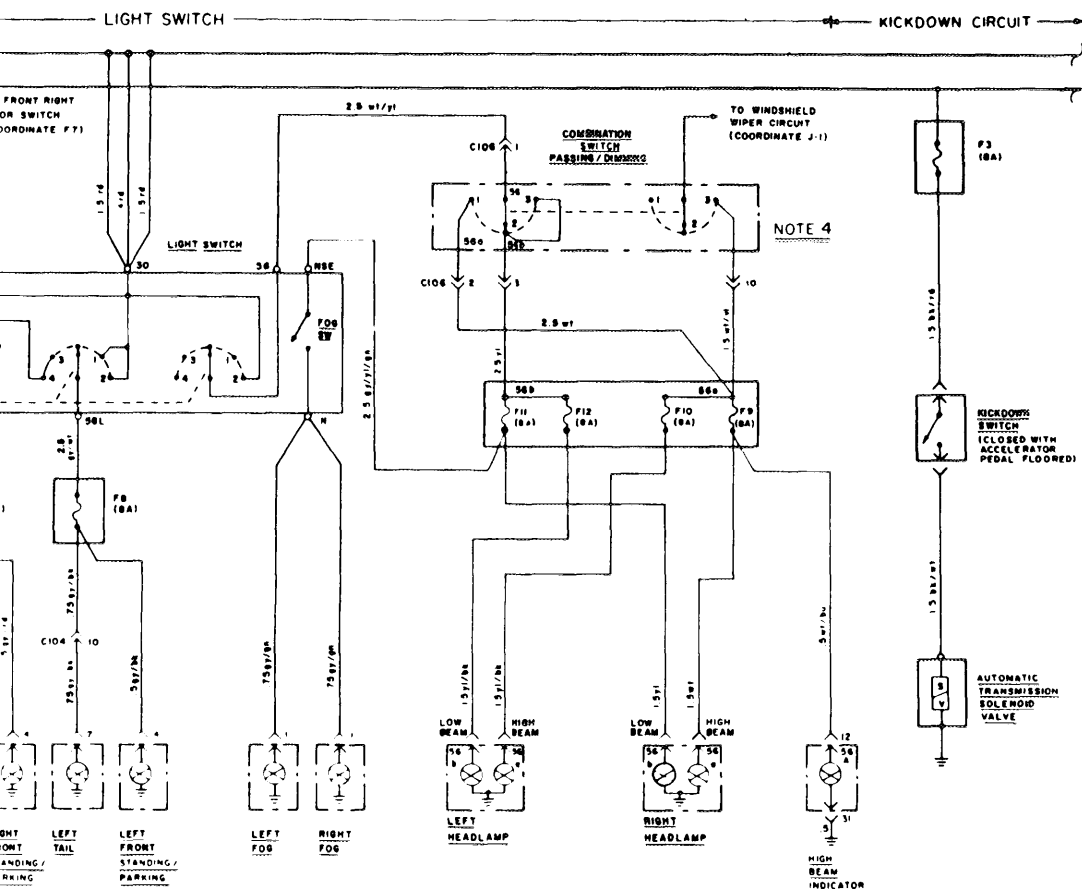


Fig 9
Fuel tank sensor

AIR CONDITI
AUXILIARY F
BLOWER MC
CHARGE
CIGAR LIGH
CLOCK
COOLANT TI
FUEL GAUGI
HEATED RE/
HEATER COI
HORNS
KICKDOWN
LIGHT CIRCI
AIR CON
BACKUP
BRAKE
BRAKE
CIGAR L
FOG
GLOVE E
HEAD
INSTRUI
INTERIO
LOW FU
MARKE
PARKIN
STANDII
TAIL
TRUNK
PREGLOW
RADIO
SEAT BELT V
SLIDING ROC
START
TURN SIGNA
WINDOWS
WINDSHIELD

POWER BUS
SPECIAL GRI



NOTE 4 POSITION 1 - HIGH BEAM
POSITION 2 - LOW BEAM
POSITION 3 - HIGH BEAM FLASH

LOCATION FIGURES



4



5
Front right headlight, refrigerant



6
Heated rear window
er

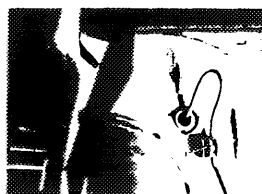


Fig. 7
1 - C112



Fig. 8
1 - Kickdown switch

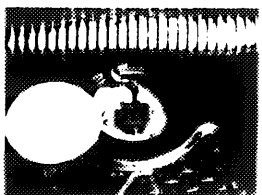
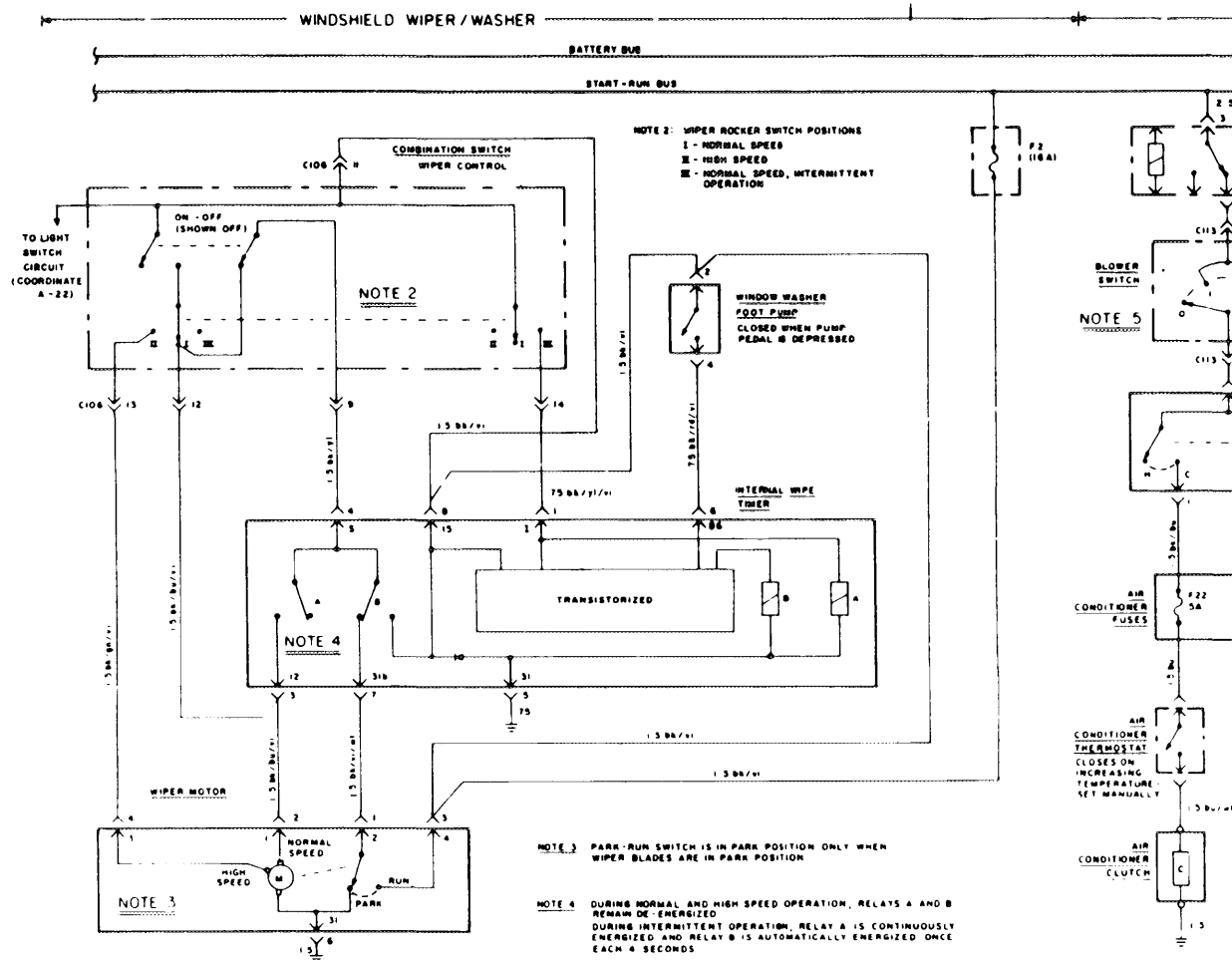


Fig. 9
Fuel tank sensor

1975 300D

AIR CONDITIONING CONTROL	L5
AUXILIARY FAN	L10
BLOWER MOTOR CONTROL	L6
CHARGE	B8
CIGAR LIGHTER	C6
CLOCK	F12
COOLANT TEMPERATURE GAUGE	F12
FUEL GAUGE	F11
HEATED REAR WINDOW	L15
HEATER CONTROL	L6
HORNS	K11
KICKDOWN	B23
LIGHT CIRCUITS	
AIR CONDITIONING THERMOSTAT	D16
BACKUP	L16
BRAKE	L12
BRAKE SYSTEM WARNING	F10
CIGAR LIGHTER	D17
FOG	D21
GLOVE BOX	L13
HEAD	D22
INSTRUMENT CLUSTER	D16
INTERIOR	F8
LOW FUEL WARNING	F11
MARKER	D17/D19
PARKING	D20
STANDING	D20
TAIL	D19
TRUNK	H9
PREGLOW	C11
RADIO	C7
SEAT BELT WARNING	B3
SLIDING ROOF	F2
START	B5/B9
TURN SIGNAL/FLASHER	B14
WINDOWS	F4
WINDSHIELD WIPER/WASHER	L3
POWER BUS DETAILS	L18
SPECIAL GROUNDING CIRCUITS	L20

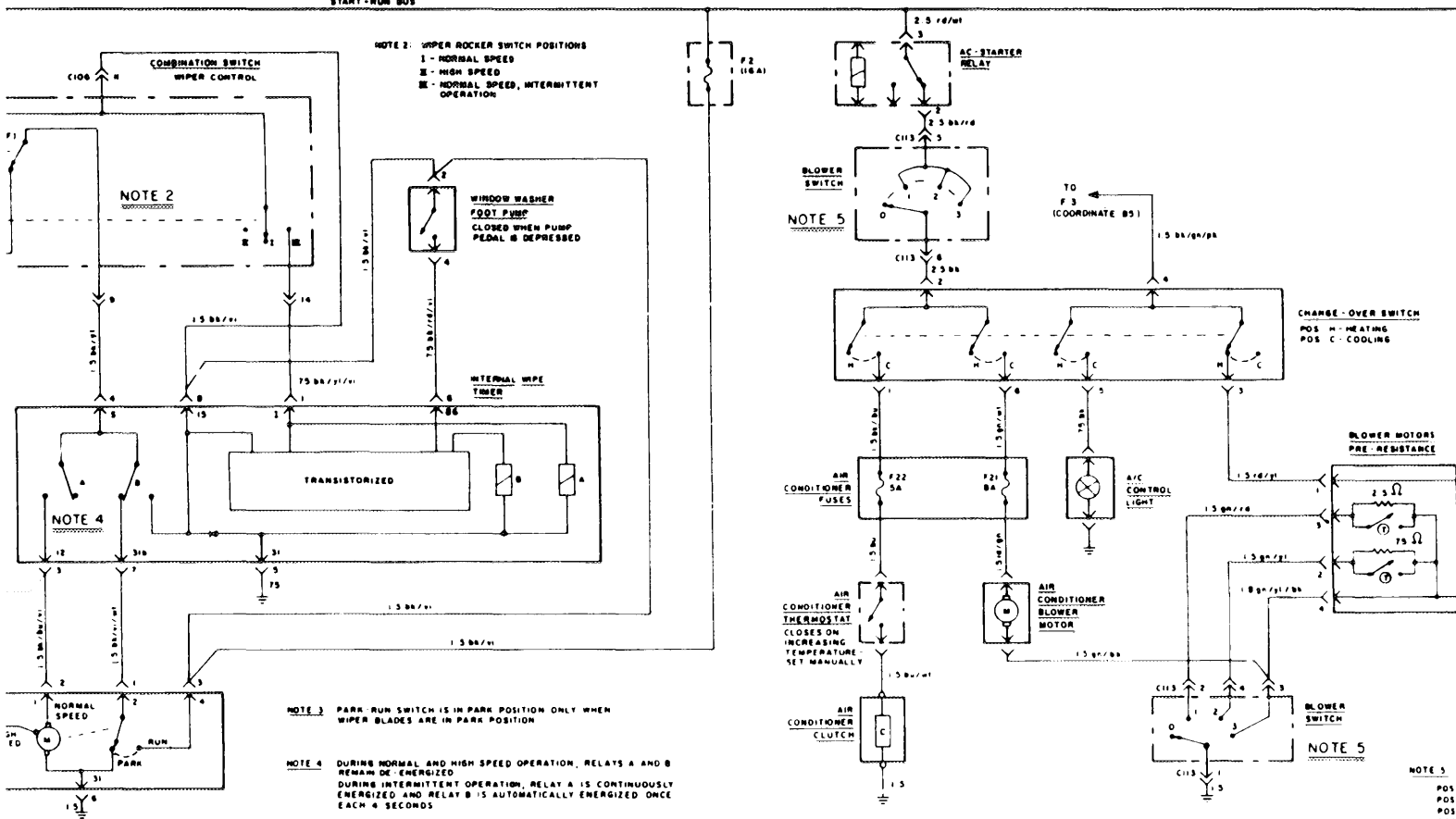


COMPONENT INDEX

SYSTEM/ COMPONENT	LOCATION ON VEHICLE	LOC FIG NO	TERM FIG NO	SYSTEM/ COMPONENT	LOCATION ON VEHICLE	LOC FIG NO	TERM FIG NO
AIR CONDITIONING/HEATING							
AC Blower motor	Center of console	1	T7				
AC Starter relay - key 4	Right firewall under fuse bracket						
Change over switch	Console - left side	2					
Fuse 21 (AC blower)	Right firewall - aux. box						
Fuse 22 (AC clutch)	Right firewall - aux. box	3					
Heater blower motor	Forward of AC blower						
presistor							
C 113 (6 pins)	Mounted to heater control lever plate	4	T2				
AUXILIARY FAN							
Aux. fan relay - key 6	Below radio fuse						
Fuse 20 (aux. fan)	Left fender - aux. box						
Temp. switch - engine	Thermostat housing	5					
Temp. switch - refrigerant	Right firewall						
BACKUP							
C 104 (12 pins)	Under dash - driver's side	6	T4				
BRAKE LIGHTS							
Switch	Above brake pedal						
C 104 (12 pins)	Under dash - driver's side	6	T4				
HEATED REAR WINDOW							
Time delay relay	Under dash - driver's side	6	T14				
Fuse 19 (window)	Left fender - aux. box						
C 112	Behind rear seat - right side	7					
HORNS							
C 106 (14 pins)	Under dash - driver's side	6	T5				
WINDSHIELD WIPER/WASHER							
Interval wipe timer	Under dash - driver's side	6	T10				
Motor	Firewall - left side	3					
C 106 (14 pins)	Under dash - driver's side	6	T5				

BATTERY BUS

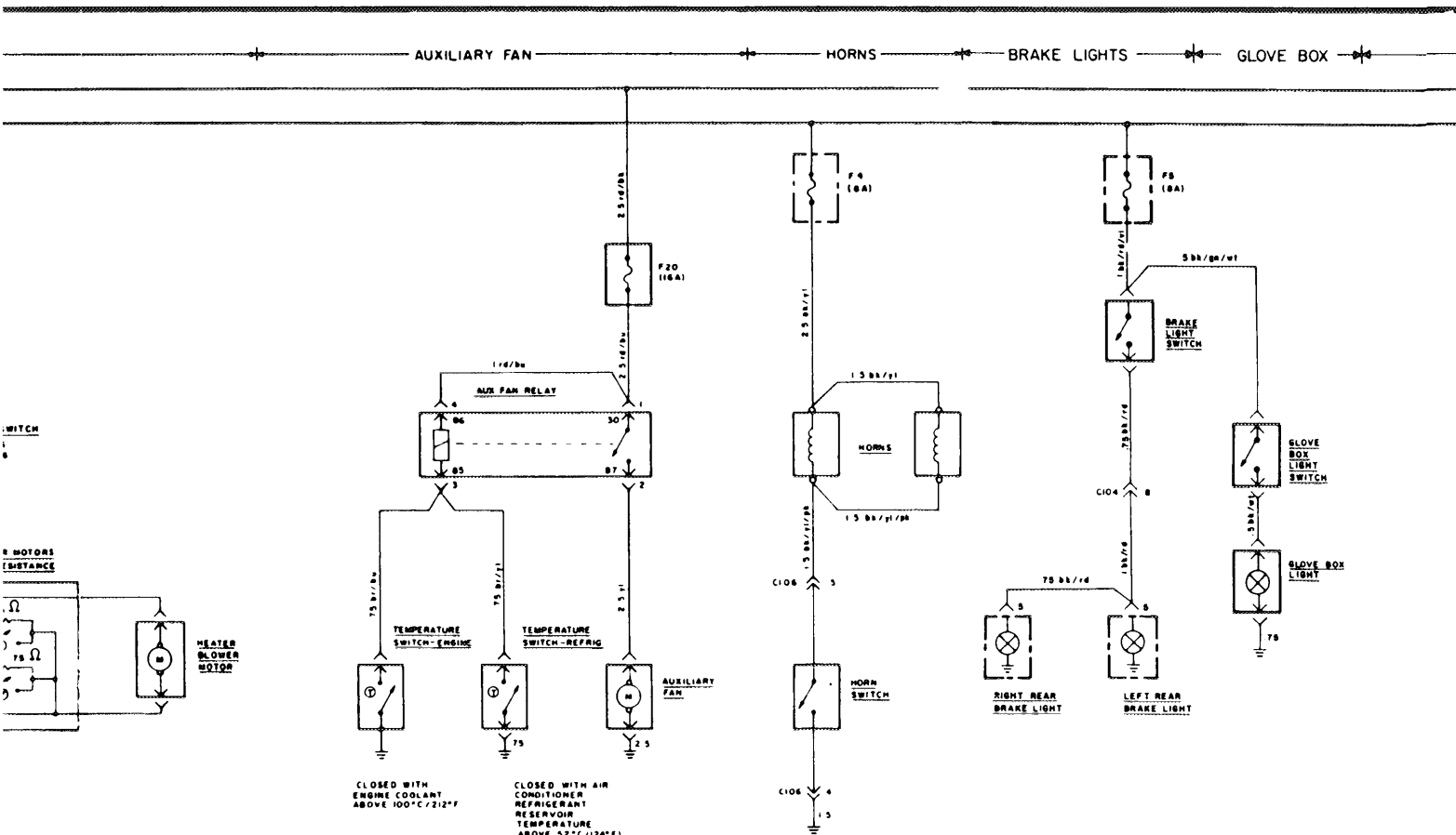
START - RUN BUS



COMPONENT INDEX

LOC

	LOCATION ON VEHICLE	LOC FIG NO	TERM FIG NO	SYSTEM/ COMPONENT	LOCATION ON VEHICLE	LOC FIG NO	TERM FIG NO
NG	Center of console	1	T7				
	Right firewall under fuse bracket	2					
	Console, left side	2					
	Right firewall - aux. box	3					
	Right firewall - aux. box	3					
	Forward of AC blower	3					
	Mounted to heater control lever plate	4	T2				
	Below radio fuse	5					
	Left fender - aux. box	5					
	Thermostat housing	5					
HER	Right firewall	5					
	Under dash - driver's side	6	T4				
	Above brake pedal	6	T4				
	Under dash - driver's side	6	T14				
	Under dash - driver's side	6	T5				
	Left fender - aux. box	7					
	Behind rear seat - right side	7					
	Under dash - driver's side	6	T5				
	Under dash - driver's side	6	T10				
	Firewall - left side	3					
	Under dash - driver's side	6	T5				



NOTE 5

PDS 0 - OFF
PDS 1 - LOWSPEED
PDS 2 - MEDIUM SPEED
PDS 3 - HIGH SPEED



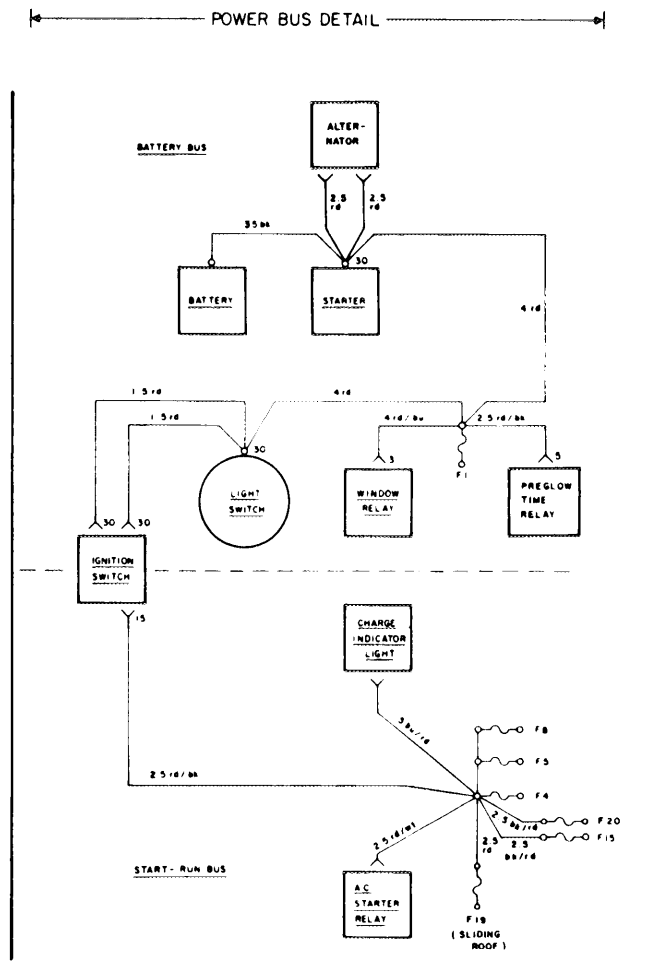
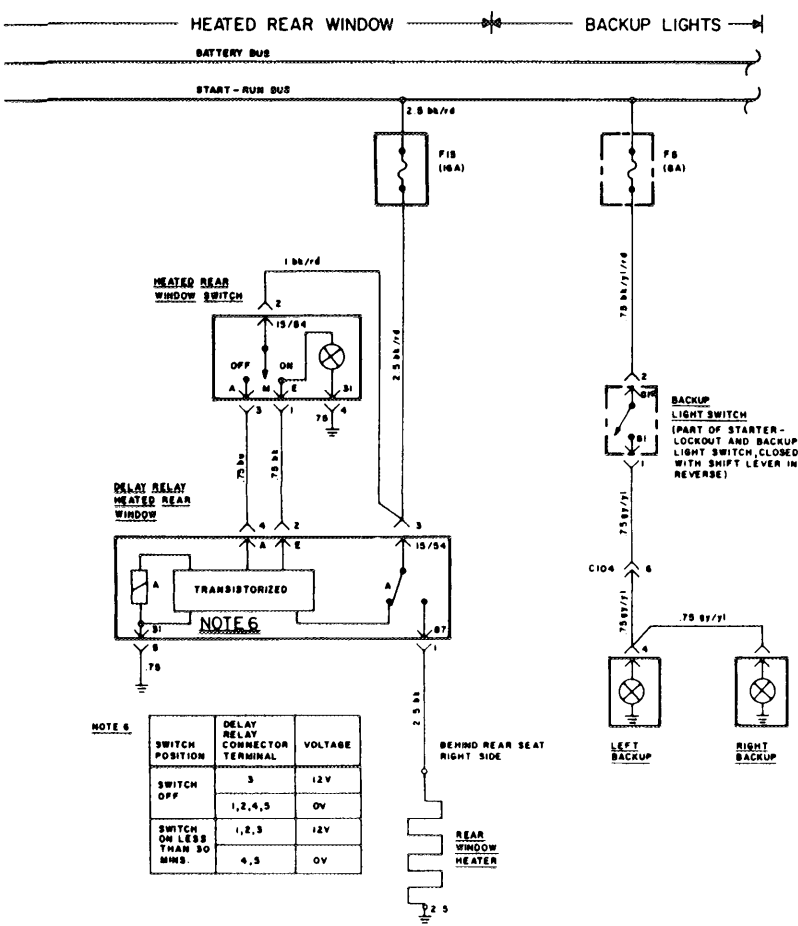
LOCATION FIGURES

FUSE DATA

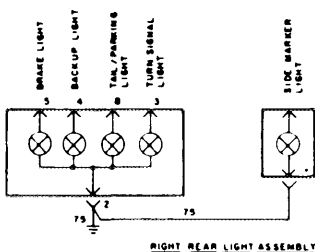
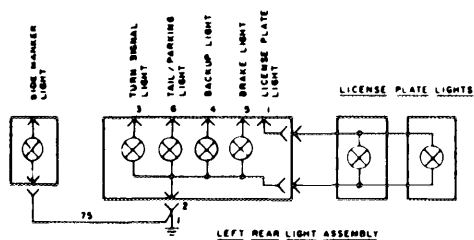
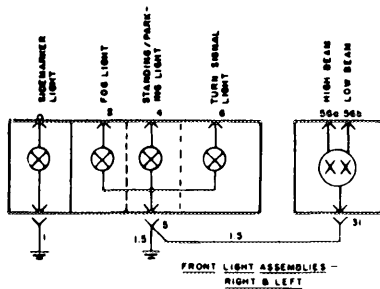
Fuse 1 (8 amps) Clock Flasher Interior lights Key Buzzer Trunk light	Fuse 8 (8 amps) Front standing parking (left) Left tail light	Fuse 20 (16 amps) Auxiliary fan motor Auxiliary fan relay
Fuse 2 (16 amps) Cigar lighter Windshield wiper/washer Radio	Fuse 9 (8 amps) High beam indicator Right head lights, high beam	Fuse 21 (8 amps) A/C Blower motor
Fuse 3 (5 amps) Heater blower motor A/C control light	Fuse 10 (8 amps) Left headlight, high beam	Fuse 22 (5 amps) Air conditioner clutch
Fuse 4 (8 amps) Turn signal Horns	Fuse 11 (8 amps) Fog lights Right head light, low beam	
Fuse 5 (8 amps) Backup lights Brake lights Glove box light Instrument cluster Seat belt warning Window control	Fuse 12 (8 amps) Left head light, low beam	
Fuse 6 (8 amps) Kickdown circuit	Fuse 13 (8 amps) Not used	
Fuse 7 (8 amps) A/C thermostat illumination Flasher illumination Front standing/parking (right) Instrument cluster lights Left and right marker lights License plate light Tail light (right) Ash tray light	Fuse 14 (8 amps) Not used	
	Fuse 15 (16 amps) Heated rear window	
	Fuse 16 Not used	
	Fuse 17 (16 amps) Left front window Right rear window	
	Fuse 18 (16 amps) Left rear window Right front window	
	Fuse 19 (16 amps) Sliding roof	

1975 300D

AIR CONDITIONING CONTROL	L5
AUXILIARY FAN	L10
BLOWER MOTOR CONTROL	L6
CHARGE	B8
CIGAR LIGHTER	C6
CLOCK	F12
COOLANT TEMPERATURE GAUGE	F12
FUEL GAUGE	F11
HEATED REAR WINDOW	L15
HEATER CONTROL	L6
HORNS	K11
KICKDOWN	B23
LIGHT CIRCUITS	
AIR CONDITIONING THERMOSTAT	D16
BACKUP	L16
BRAKE	L12
BRAKE SYSTEM WARNING	F10
CIGAR LIGHTER	D17
FOG	D21
GLOVE BOX	L13
HEAD	D22
INSTRUMENT CLUSTER	D16
INTERIOR	F11
LOW FUEL WARNING	F11
MARKER	D17/D19
PARKING	D20
STANDING	D20
TAIL	D19
TRUNK	H9
PREGLOW	C11
RADIO	C7
SEAT BELT WARNING	B3
SLIDING ROOF	F2
START	B5/B9
TURN SIGNAL/FLASHER	B14
WINDOWS	F4
WINDSHIELD WIPER/WASHER	L3
POWER BUS DETAILS	L18
SPECIAL GROUNDING CIRCUITS	L20



SPECIAL GROUNDING CIRCUITS



J

K

L

M



Mercedes-Benz

Electrical Troubleshooting Manual
Passenger Cars
Model Years 1975 – 1979



MBMANUALS.COM

Mercedes-Benz of North America, Inc.

S-2379-000

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Service and Parts Literature

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Order No. **S-2379-000**

HOW TO USE THIS MANUAL

This manual contains electrical information needed to troubleshoot vehicles for Model Years 1975 to 1979.

How To Read Wiring Diagrams

The power buses (power sources) are drawn at the top of each diagram and ground buses near the bottom. The components of the circuits have been arranged such that the flow of the current can easily be traced. Notes are included on the diagrams to assist in understanding circuit operation.

The two power buses used in the diagrams are the "Battery Bus" and the "Start-Run Bus". The Battery Bus is connected directly to the battery and is "Hot" or energized at all times, regardless of the position of the ignition key switch. The Start-Run Bus is "Hot" only when the ignition key switch is in the start or run positions. This enables the technician to determine when to expect voltage at various locations.

All switches, relays and other components are shown on the diagrams as they exist when the vehicle is at "rest". At rest means doors closed, seats unoccupied, engine off, shift lever in park or neutral, engine temperature stabilized at 68° F / 20° C, key out of ignition, lights switched off, etc. The operation of many of the components is explained in the notes, as in the case of Oil Temperature Switch which closes at 63° F / 17° C.

When a component is shown in only one location on the wiring diagrams, it is outlined with a solid black line. When it is necessary to show a component in more than one location, it is outlined with a dashed line. For example, fuses tend to be represented by dashed lines because they appear in several circuits.

All wiring between components is shown exactly as it exists on the vehicle. wiring inside complicated components, such as the Ignition Switch or the Light Switch has been simplified to aid in understanding its electrical operation. Multiple throw switches are shown side-by-side. When tracing current flow for a particular situation, mentally route all the switches to the same position.

How To Find The Circuit You Are Working On

At the bottom right corner of each wiring diagram (model year 1975 to 1977 vehicles only) is an index of the vehicles electrical circuits along with the respective location coordinates.

How To Find The Component On The Vehicle

The Component Index at the bottom right of each diagram (model year 1975 to 1977 vehicles only) verbally describes the location of various items which are difficult to find. The column labeled "LOC. FIG. NO." refers to photographs on the diagram which will further assist you in locating components.

How To Identify Wire Terminals On Components

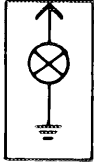
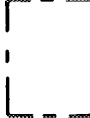
The terminals on all components are labeled on the wiring diagrams. To identify the terminals on the components, terminal photographs are provided in the front of the manual. The "TERM. FIG. NO." column of the Circuit Index refers to specific component terminal photographs.

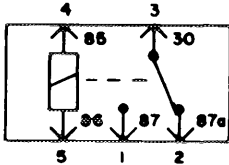
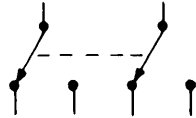
How To Troubleshoot Electrical Problems

1. Verify the complaint.
2. Locate the faulty circuit on the schematic page.
3. Analyze the circuit.
4. Correct the failure.
5. Check for proper circuit operation.

Refer to the "How To Use" page in front of the 1978/1979 section for changes and additions to the instructions for those model year vehicles

SYMBOLS AND DEFINITIONS

		
Capacitor	Connector	Ground shown elsewhere
		
Clutch, electric	Diode	Light bulb
		
Coil	Fuse	Motor, permanent magnet
		
Component, shown complete in one position on Diagram	Electric gauge	Motor, series field
		
Component, shown in more than one position on Diagram	Ground on chassis	Spark gap

 Relay (contacts as shown with no voltage applied to coil)	 Resistor, variable value	 Switch, one pole, two positions
 Relay coil, time delay	 Screw terminal	 Switch, two poles, two positions (Dashed line indicates the two poles move together)
 Relay coil, two windings	 Solenoid valve	 Temperature switch
 Switch, momentary (Returns to center off position when released)	 Switch, normally closed	 Transistor
 Resistor, fixed value	 Switch normally open	

WIRE SIZE AND COLOR

Wire size and insulation color for each wire is shown on the Schematic/Wiring Diagrams to aid in locating specific wires. Wire size (crosssectional area) is given in square millimeters, 0.5, 0.75, 1.0, 1.5, 2.5, 4.0, 6.0, 10, 25, 35. The first color given on the diagrams is the base or overall insulation color. Second and third colors, if any, designate stripes. Solid brown insulation is used only for ground wires.

The color code used in this Manual is somewhat different from the code used in Mercedes-Benz documents prepared in Germany. All color codes used in the Manual are two letter, selected to closely relate to the English word they represent. Notice that lower case letters are used.

COLOR	GERMAN EQUIVALENT	CODE USED IN ETM
White	ws	wt
Green	gn	gn
Brown	br	br
Yellow	ge	yl
Gray	gr	gy
Pink	rs	pk
Blue	bl	bu
Red	rt	rd
Black	sw	bk
Ivory	el	iv
Natural	nf	nt
Violet	vi	vi

Example:

Wire designation: 1.5 gy/rd
Wire size: 1.5 mm²
Insulation base color: gray
Insulation strip color: red

The following table shows wire size in American Wire Gauge (AWG) to be used if metric sized wire is unavailable.

METRIC (Crosssectional area in mm ²)	AWG
.75	18
1	16
2.5	12
4	10
6	8
8	8
16	4

RELAY CODE DESIGNATION

Since the exact position of relays varies due to manufacturing convenience, the harness leading to each relay is tagged as a means of identifying each relay. The following listing identifies the code numbering system.

Code Number	Function
1	Fuel pump
2	Cold start valve
3	Fuel injection
4	A/C starter
5	Change-over valve
6	Auxiliary fan
7	Seat belt warning system
8	Change-over valve with additional fan
9	Window regulator
10	Window regulator
11	Starter terminal 50
12	Air conditioning system
13	Headlight cleansing equipment
16	Headlight flasher
17	Carburetor heater
19	EGR/ignition advance
20	Heater coil choke cover
21	Fuel Pump Relay

CONNECTOR LIST

- C 101 Battery
- C 102 Impulse trigger (trigger points)
- C 103 Fuel injection circuit
- C 104 Rear harness circuits
- C 105 Charge/start circuit (3 or 4 pin)
- C 106 Combination switch
- C 107 Electric window circuit
- C 108 Electric window circuit
- C 109 Front dome light
- C 110 Rear dome light
- C 111 Hot start circuit
- C 112 Windshield wiper/washer
- C 116 Ignition points terminal block
- C 117 Heater controls lights
- C 118 Cruise control
- C 119 Cruise control
- C 120 Cruise control
- C 121 Cruise control
- C 122 Heater control valves
- C 123 Heated rear window
- C 131 Brake pad sensor
- C 132 Brake pad sensor
- C 133 Air conditioner
- C 134 Heater circuit
- C 135 Power antenna
- C 140 Cruise control

TERMINAL PHOTOGRAPHS

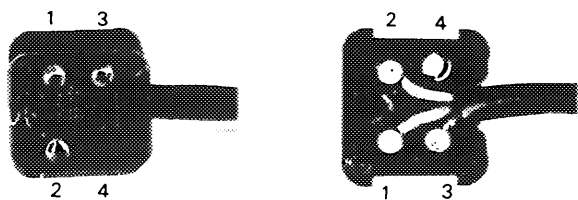


Fig. T1
Connector, 4 terminal

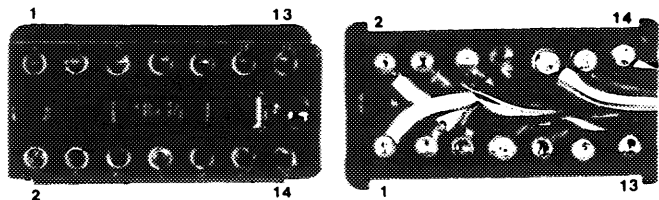


Fig. T5
Connector, 14 terminal

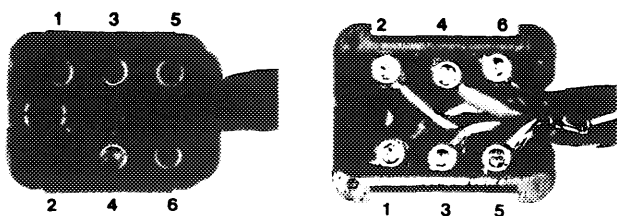


Fig. T2
Connector, 6 terminal

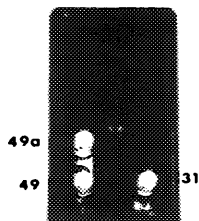


Fig. T6
Turn signal flasher relay

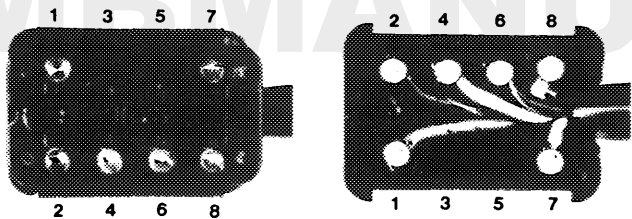


Fig. T3
Connector, 8 terminal

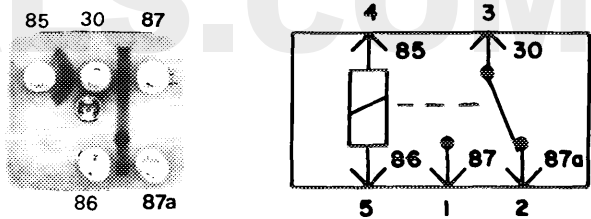


Fig. T7
Relay

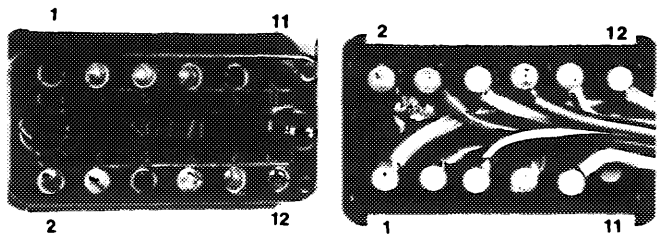


Fig. T4
Connector, 12 terminal

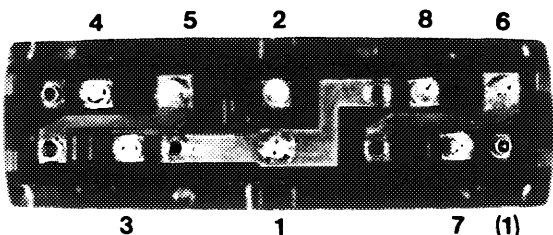


Fig. T8
Window switch group
(the 1 terminal has two alternate positions)

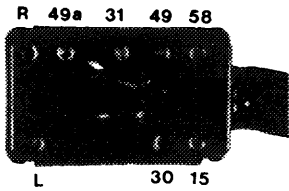


Fig. T9
Connector, flasher switch

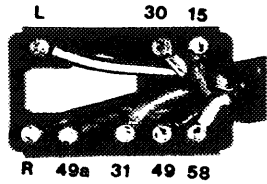


Fig. T16
Flasher switch

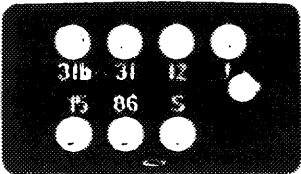


Fig. T10
Windshield wiper interval relay

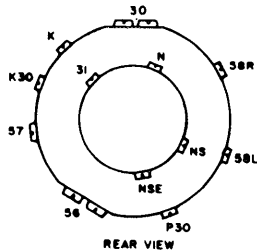


Fig. T13
Light switch

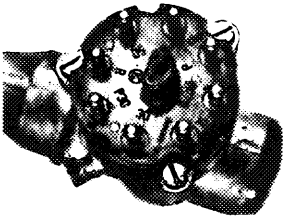


Fig. T11
Ignition switch

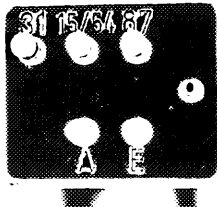


Fig. T14
Heated rear window delay relay

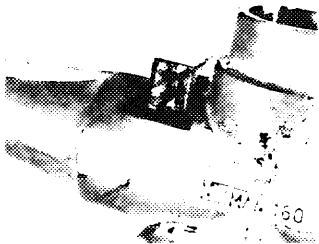


Fig. T12
Ignition lock warning switch

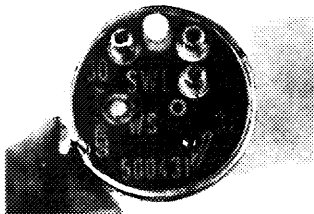
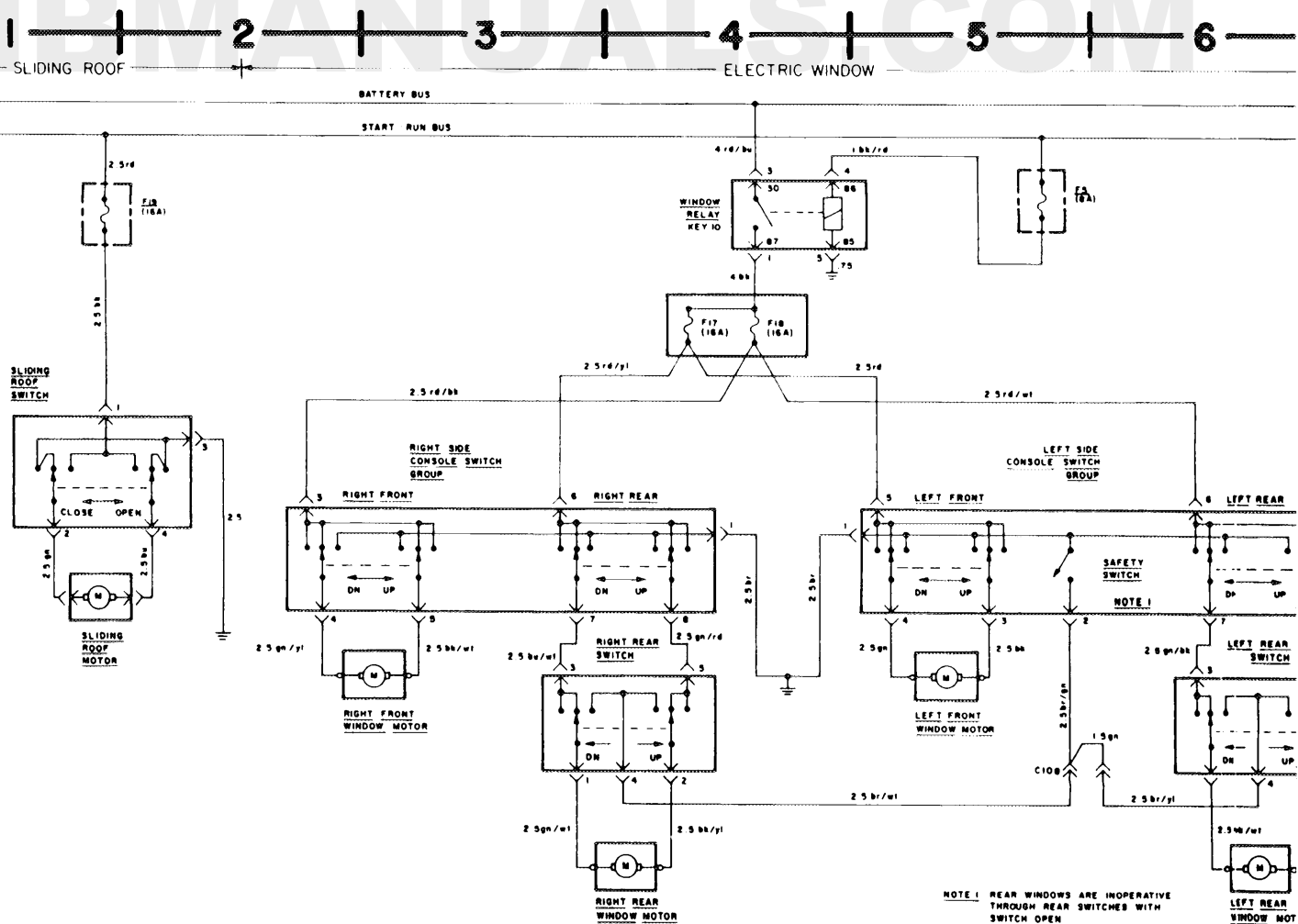
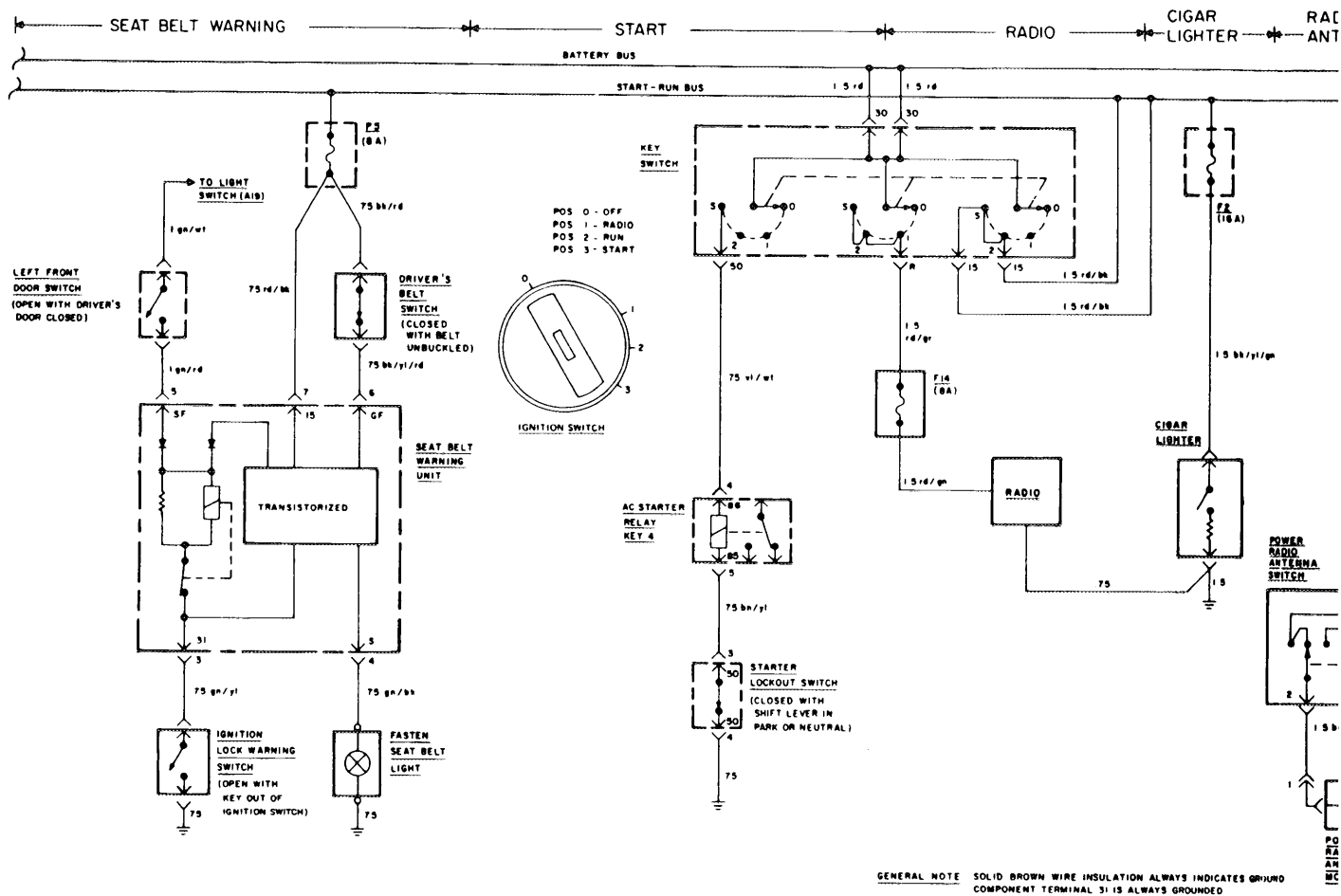
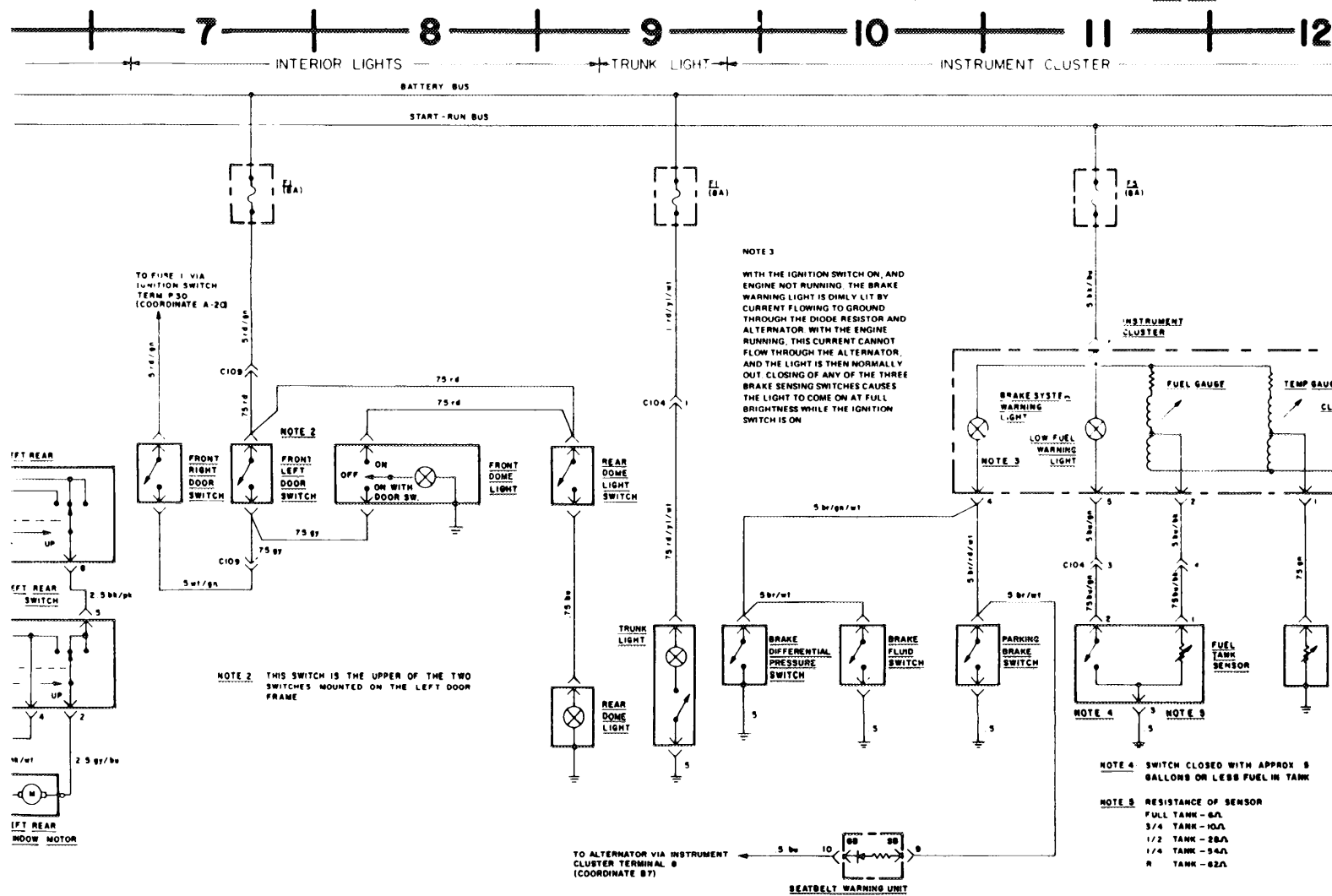
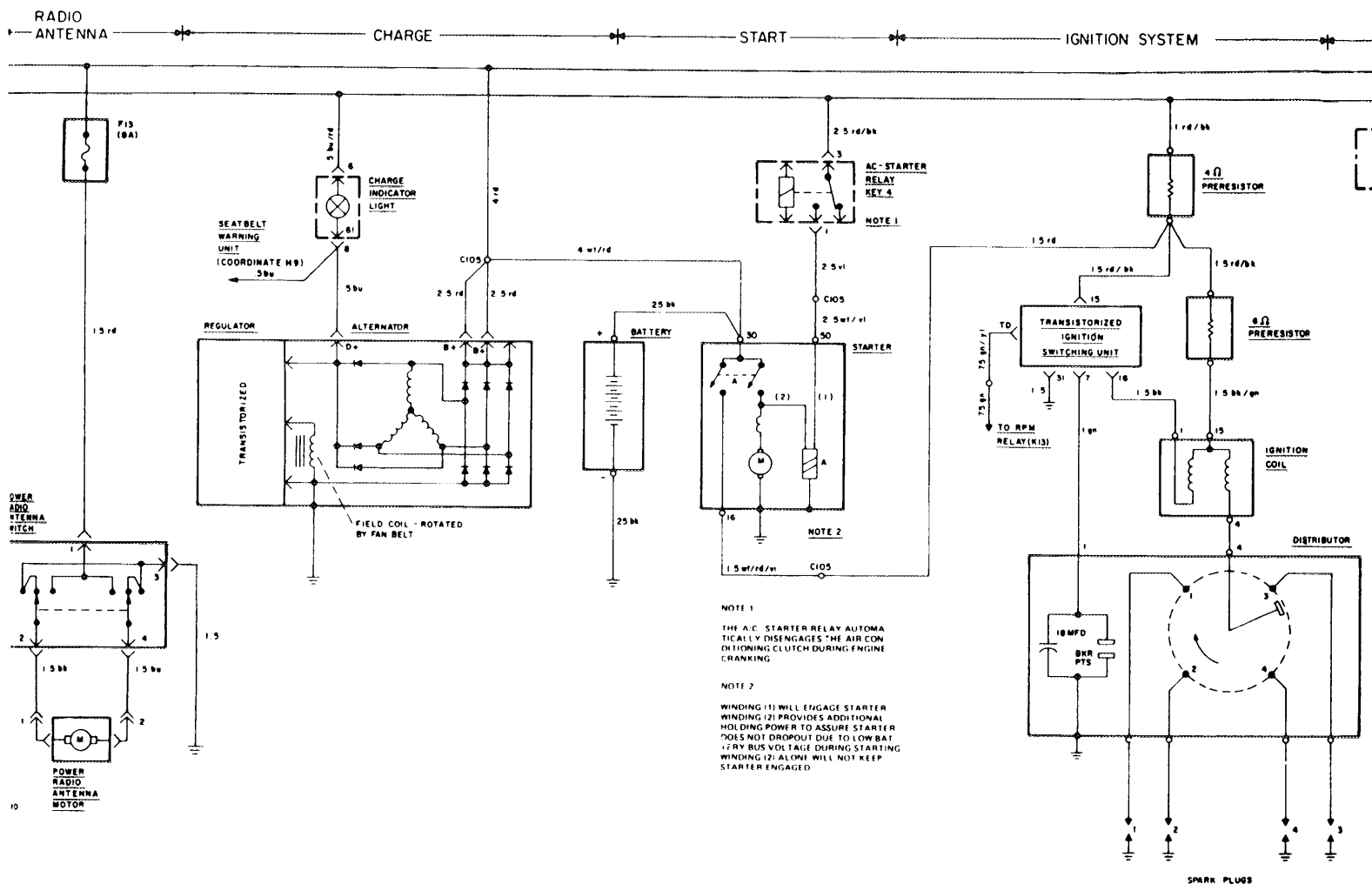


Fig. T15
Buzzer, warning





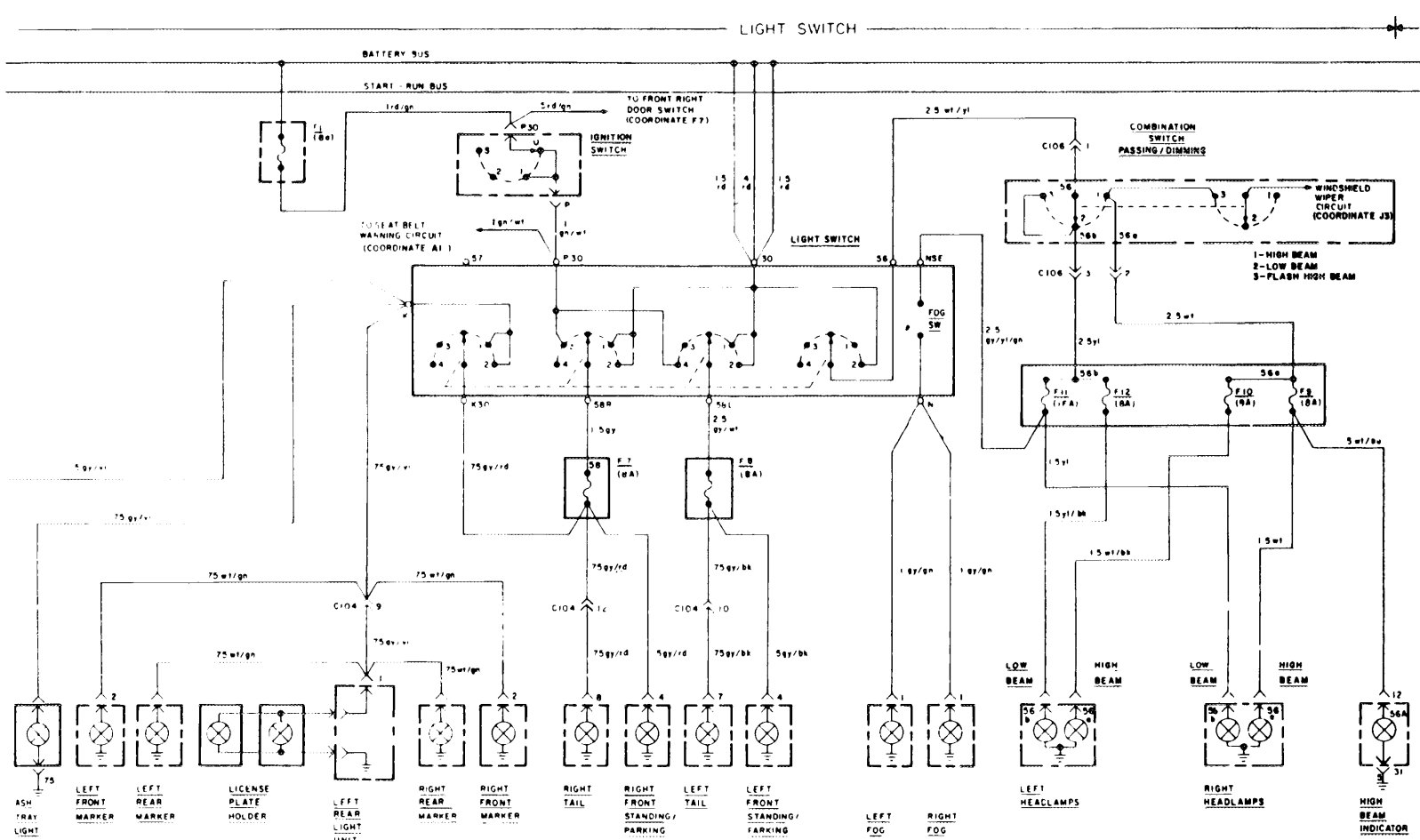


SYSTEM/ COMPONENT	LOCATION ON VEHICLE	LOC FIG NO	TERM FIG NO	SYSTEM/ COMPONENT	LOCATION ON VEHICLE	LOC FIG NO	TERM FIG NO
CHARGE Regulator C 105	Alternator Firewall			TRUNK LIGHT C 104 (12 pins)	Under dash, driver's side	6	T4
ELECTRIC WINDOWS Front seat switch Window relay — key 10 C 106	Front seat console Right firewall under fuse bracket Console		T8 T7	TURN SIGNAL AND FLASHER Flasher relay C 104 (12 pins) C 106 (14 pins)	Under dash, driver's side Under dash, driver's side Under dash, driver's side	6 6 6	T6 T4 T5
IGNITION SYSTEM Coil Distributor 4 Ohm preresistor 6 Ohm preresistor Transistorized ignition switching unit	Left front fender Left front fender Left front fender Left front fender Left front fender	8 8 8					
INSTRUMENT CLUSTER Brake Diff. Press. Switch Brake fluid switch Coolant temp. sensor Fuel tank sensor Parking brake switch C 104 (12 pins)	Master Cylinder Reservoir Left front cylinder head Trunk Top parking brake Under dash, driver's side	15 12 11 6	T4				
INTERIOR LIGHTS C 109	Behind console						
KICKDOWN CIRCUIT Switch	Below accelerator pedal	10					
LIGHT SWITCH C 104 (12 pins) C 106 (14 pins)	Under dash, driver's side Under dash, driver's side	6 6	T4 T5				
SEAT BELT WARNING Ignition warning switch Warning unit	Ignition switch Under dash, driver's side		T12				
SLIDING ROOF Motor	Behind spare tire						
START AC/Starter relay, key 4	Right firewall, under fuse bracket		T7				



1 - A/C Blow

1 — Main fus.
2 — Heater bl.
4 — Wiper mo.



LOCATION FIGURES



Fig 1
— A/C Blower motor



Fig 2
— Change over switch

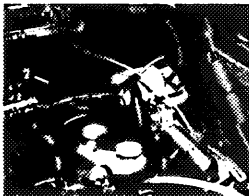


Fig 3
— Main fuse box
— Heater blower pre-resistors
— Wiper motor

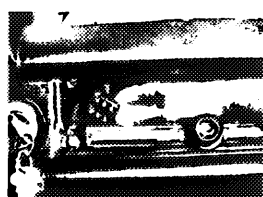


Fig 4
1 — C 113



Fig 5
1 — Temperature switch, refrigerant



Fig 6
1 — Flasher relay
3 — Time delay relay, heated rear window
5 — Interval wiper timer
6 — C 104
7 — C 106

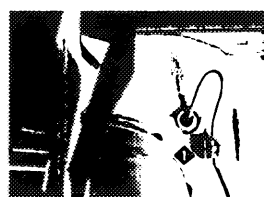


Fig 7
1 — C 112



Fig 8
2 — Ignition coil
3 — 4 ohms pre-resistor
4 — 6 ohms pre-resistor



Fig 10
1 — Kickdown switch



Fig 9
1 — Choke heater
2 — Idle fuel cut off solenoid
3 — Automatic Choke Thermo Valve

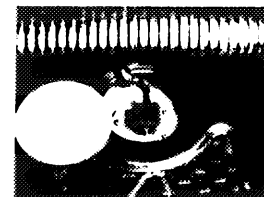
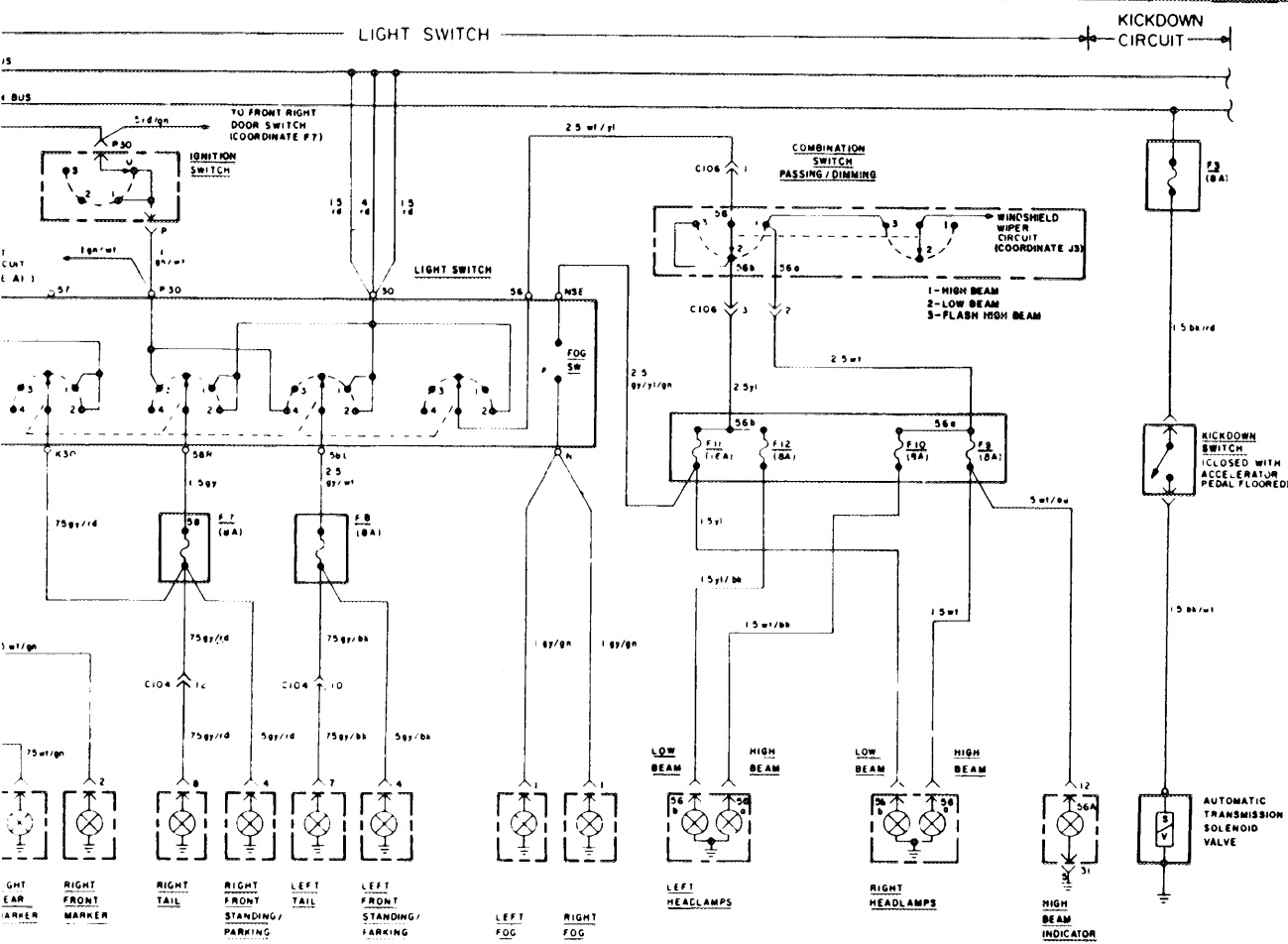


Fig 11
Fuel tank sensor

AIR CONDITIONING
AUXILIARY FAN
CHARGE
CIGAR LIGHTER
CLOCK
COOLANT TEMPER.
ENGINE EMISSION
FUEL GAUGE
HEATED REAR WIN
HEATER CONTROL
HORNS
IDLE FUEL CUTOFF
IGNITION SYSTEM
KICKDOWN
LIGHT CIRCUITS
AIR CONDITIONING
BACKUP
BRAKE
BRAKE SYSTEM
CATALYST INDIC
CIGAR LIGHTER
FOG
GLOVE BOX
HEAD
INSTRUMENT CL
INTERIOR
LOW FUEL WARN
MARKER
PARKING
STANDING
TAIL
TRUNK
POWER ANTENNA
RADIO
SEAT BELT WARNIN
SLIDING ROOF
START
TURN SIGNAL/FLA
WINDOWS
WINDSHIELD WIPER

POWER BUS DETAIL
SPECIAL GROUNDING



20

21

22

23

24

LOCATION FIGURES



Fig 4

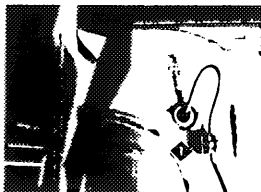


Fig 7



Fig 9

- 1 — Choke heater
- 2 — Idle fuel cut off solenoid
- 3 — Automatic Choke Thermo Valve



Fig 5
switch, refrigerant



Fig 8

- 2 — Ignition coil
- 3 — 4 ohms pre resistor
- 4 — 6 ohms pre resistor



Fig 6
ay, heated rear window
timer



Fig 10

- 1 — Kickdown switch

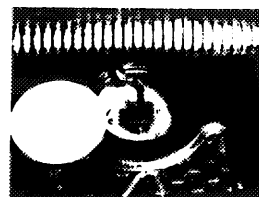


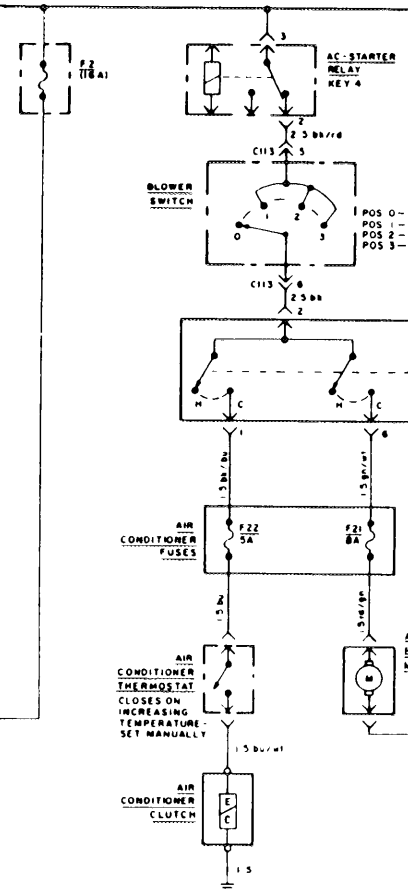
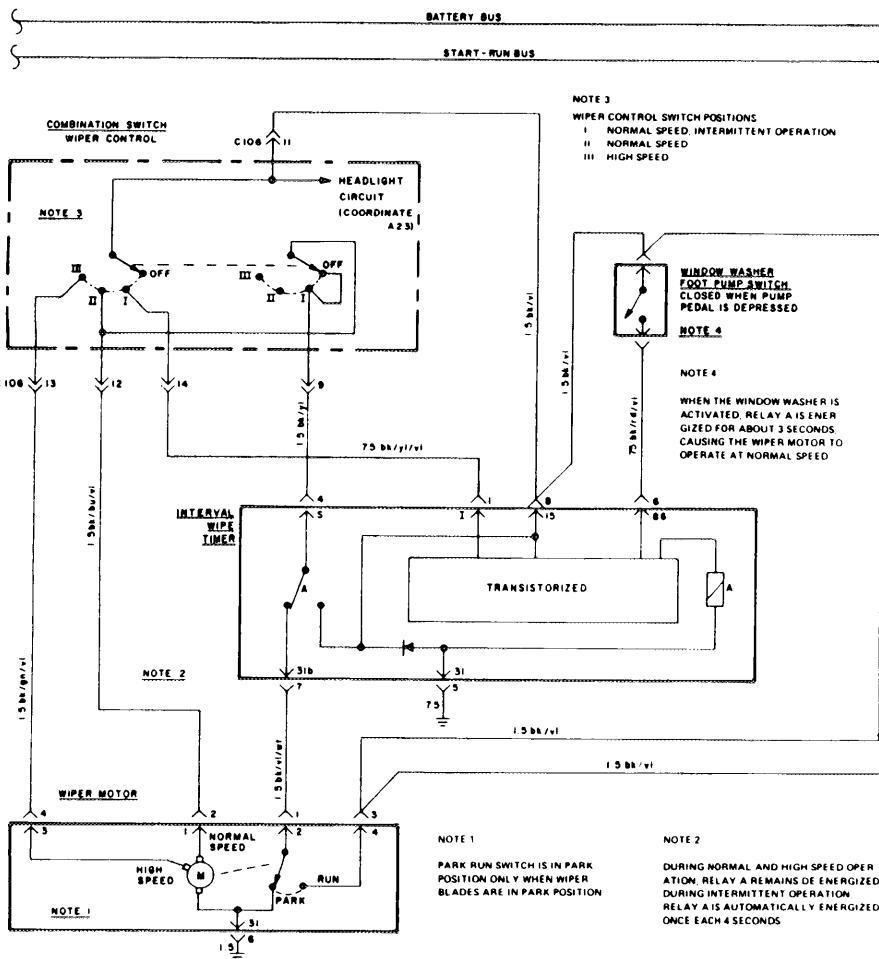
Fig 11

Fuel tank sensor

1976 230

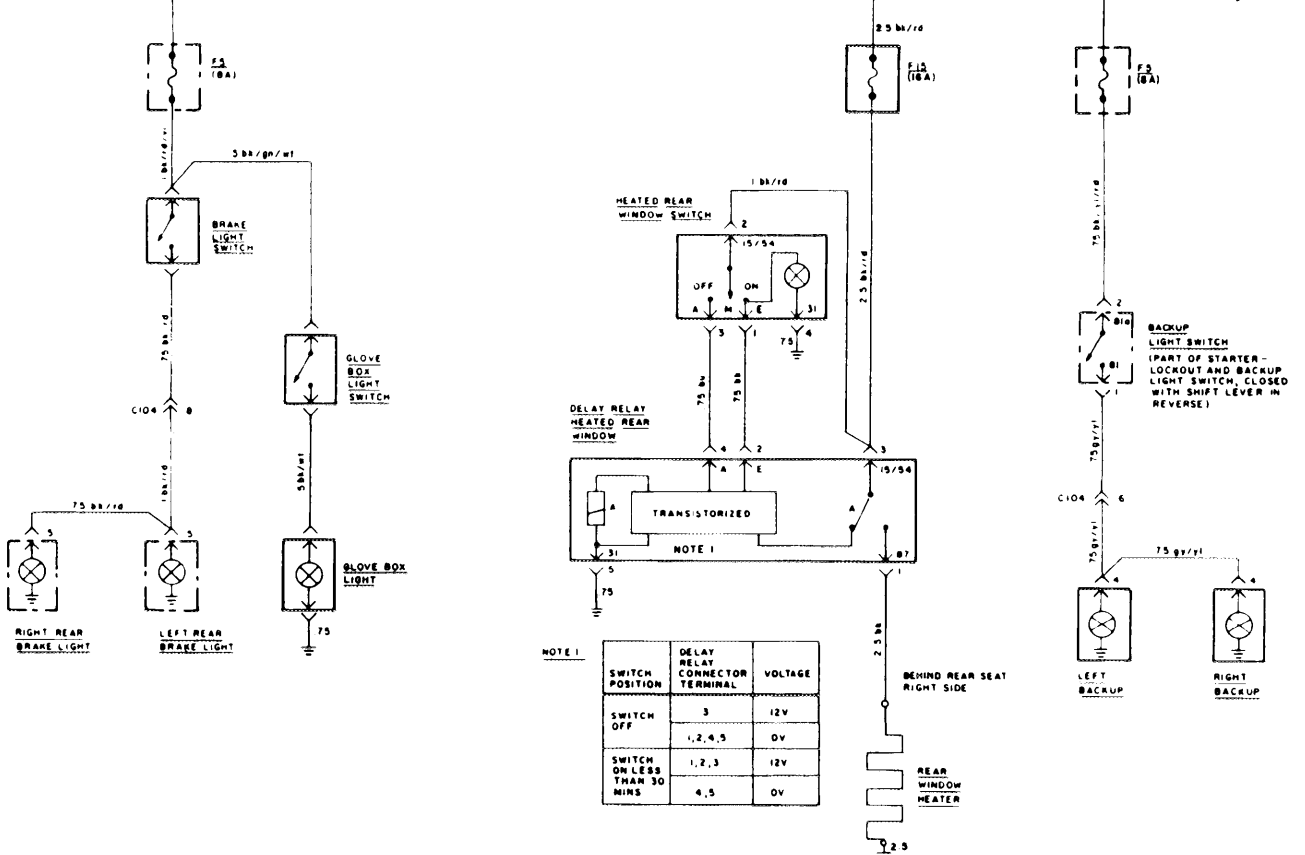
AIR CONDITIONING CONTROL	L6
AUTOMATIC CHOKE	L18
AUXILIARY FAN	L10
CHARGE	D8
CIGAR LIGHTER	C6
CLOCK	F12
COOLANT TEMPERATURE GAUGE	F12
ENGINE EMISSION CONTROL	L13
FUEL GAUGE	F11
HEATED REAR WINDOW	R3
HEATER CONTROL	L6
HORNS	K11
IDLE FUEL CUTOFF	L15
IGNITION SYSTEM	B11
KICKDOWN	B23
LIGHT CIRCUITS	
AIR CONDITIONING THERMOSTAT	D16
BACKUP	R5
BRAKE	R1
BRAKE SYSTEM WARNING	F11
CATALYST INDICATOR	L16
CIGAR LIGHTER	C6
FOG	D21
GLOVE BOX	R2
HEAD	D22
INSTRUMENT CLUSTER	D16
INTERIOR	F7
LOW FUEL WARNING	F11
MARKER	D17/D18
PARKING	D20
STANDING	D20
TAIL	D20
TRUNK	G9
POWER ANTENNA	B6
RADIO	B5
SEAT BELT WARNING	B2
SLIDING ROOF	F1
START	B3/B9
TURN SIGNAL/FLASHER	B13
WINDOWS	F4
WINDSHIELD WIPER/WASHER	L3
POWER BUS DETAILS	L20
SPECIAL GROUNDING CIRCUITS	L22

WINDSHIELD WIPER/WASHER



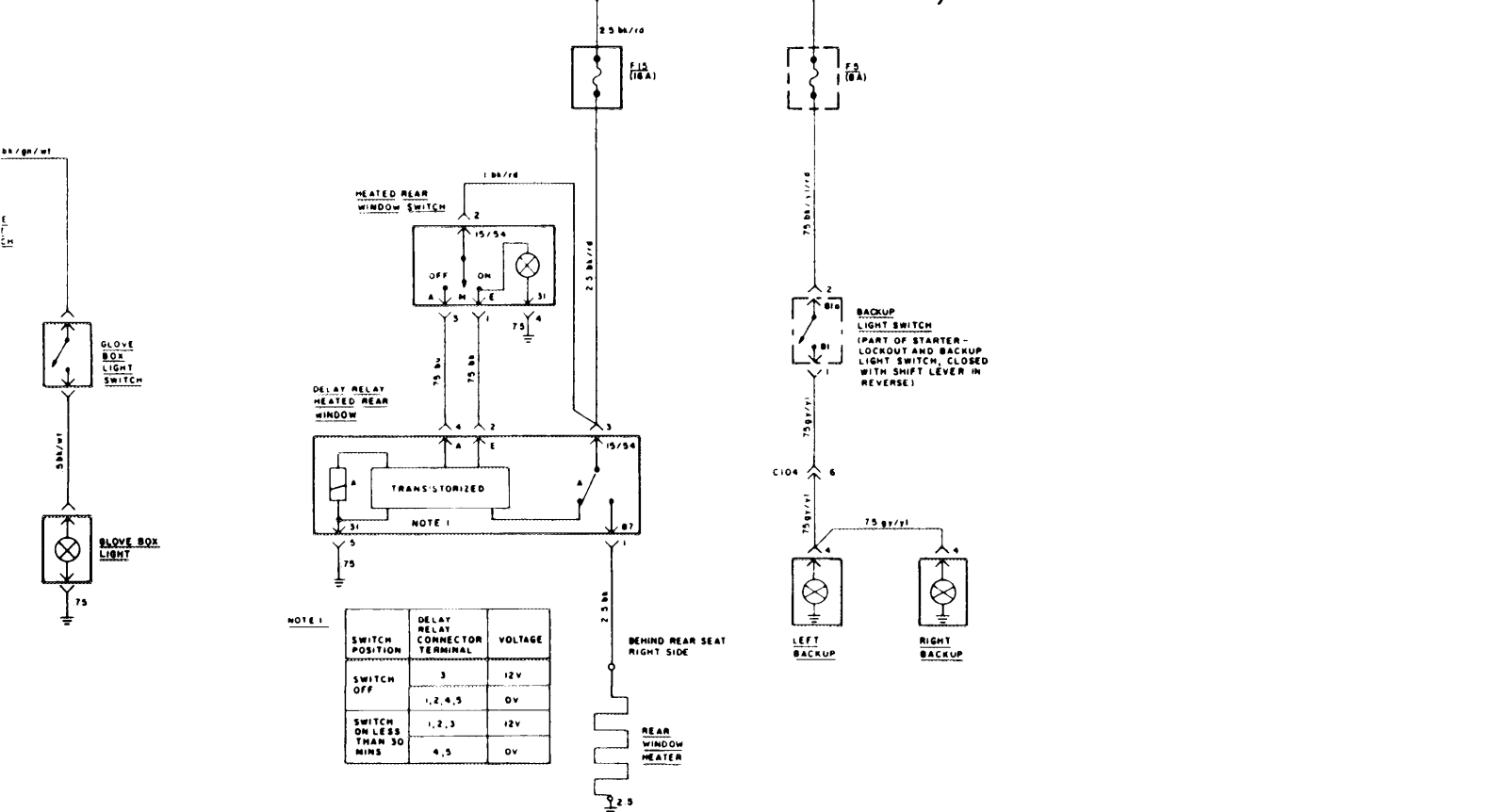
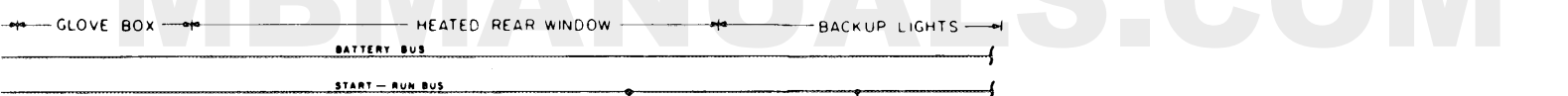
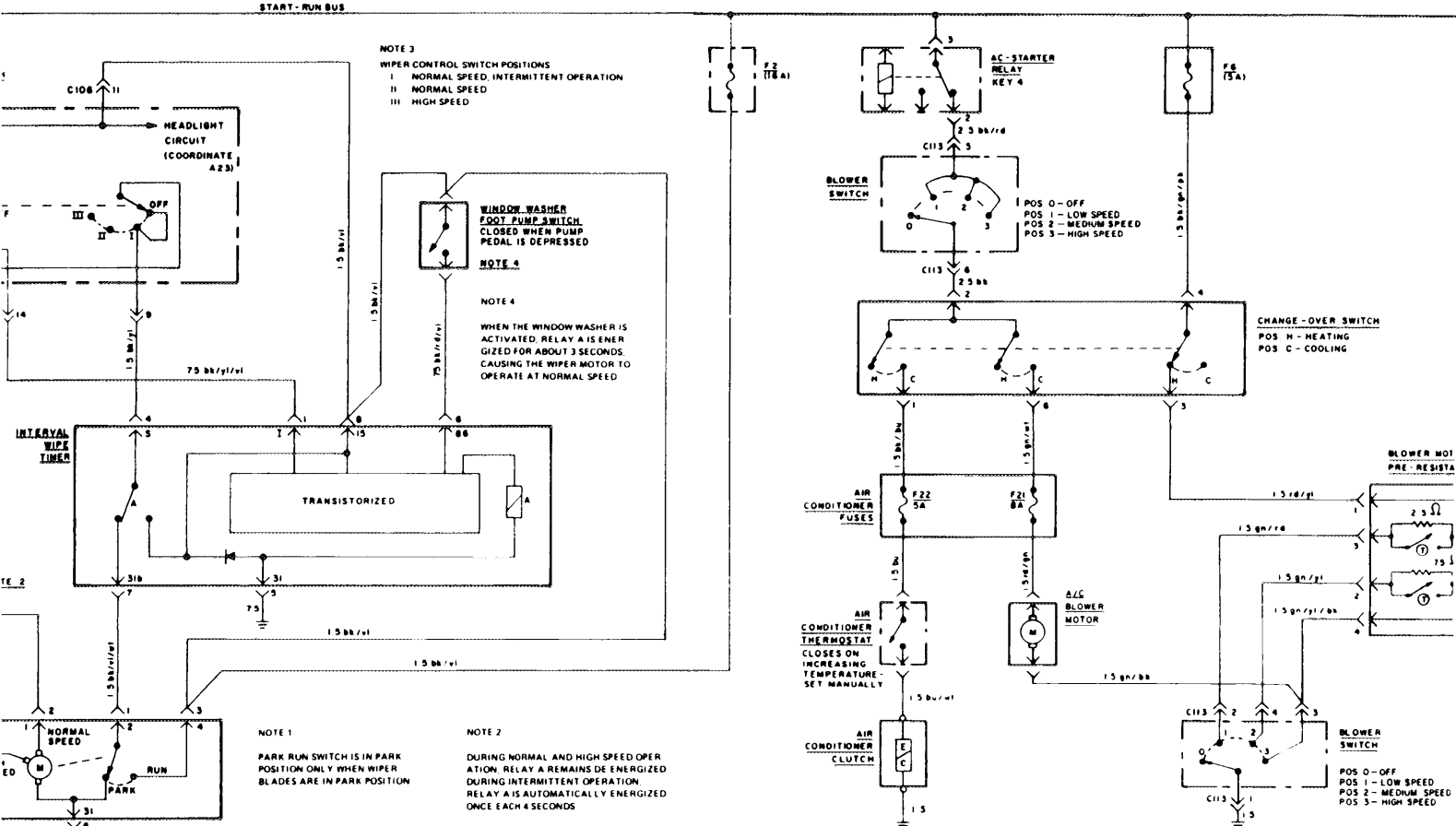
1 2 3 4 5 6

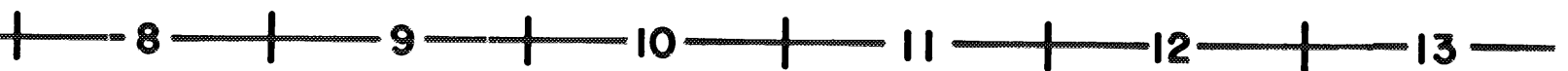
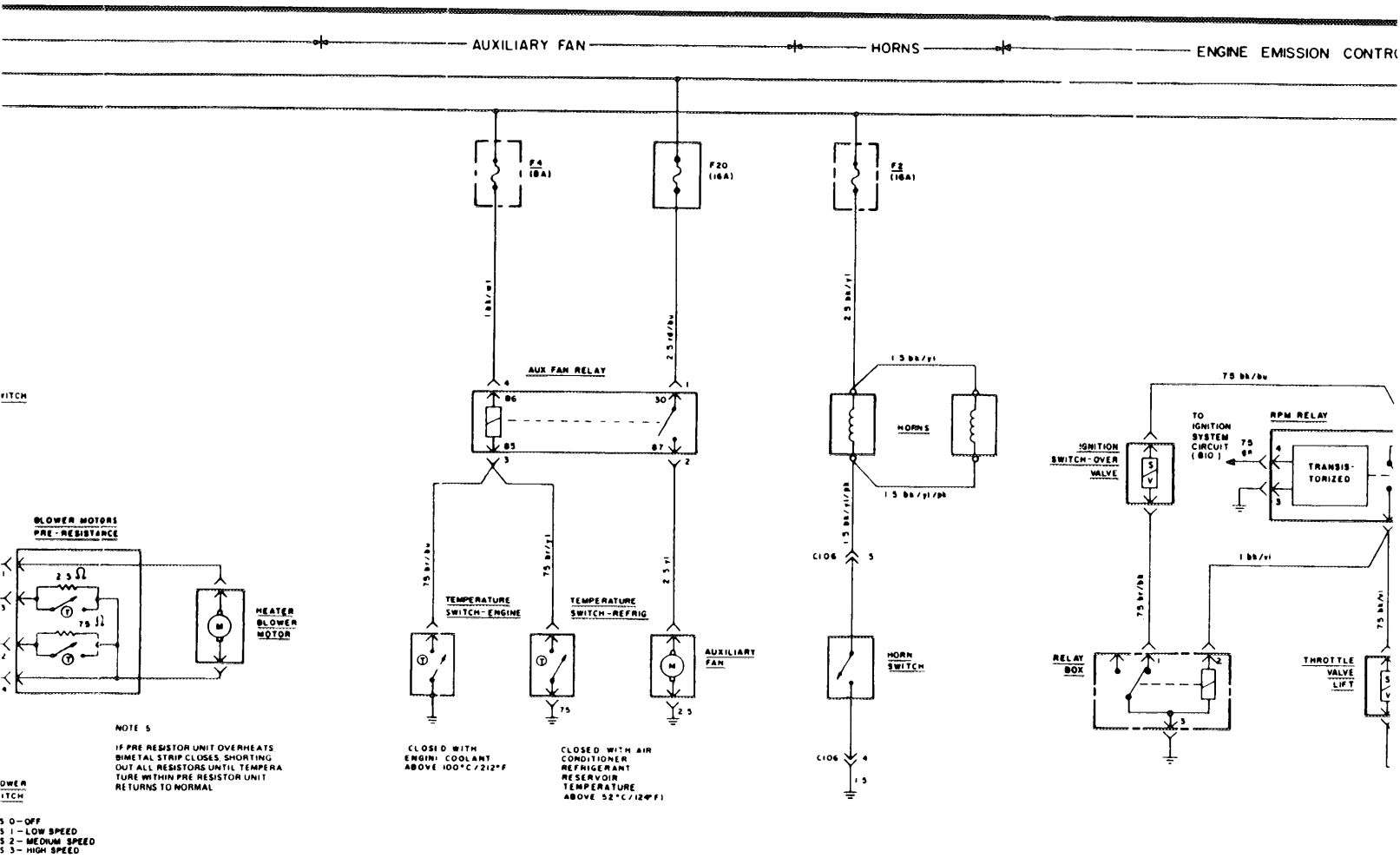
BRAKE LIGHTS GLOVE BOX HEATED REAR WINDOW BACKUP LIGHTS



BATTERY BUS

START-RUN BUS





S
CO

AIR CONDIT
AC blower r
AC/Starter i

Change-ove
Fuse 21 (AC
Fuse 22 (AC
Heater blow
preresisto
C 113 (6 pr

AUTOMATIK
Automatic C

AUXILIARY
Aux. fan rel
Fuse 20 (aux
Temp. switc
Temp. switc

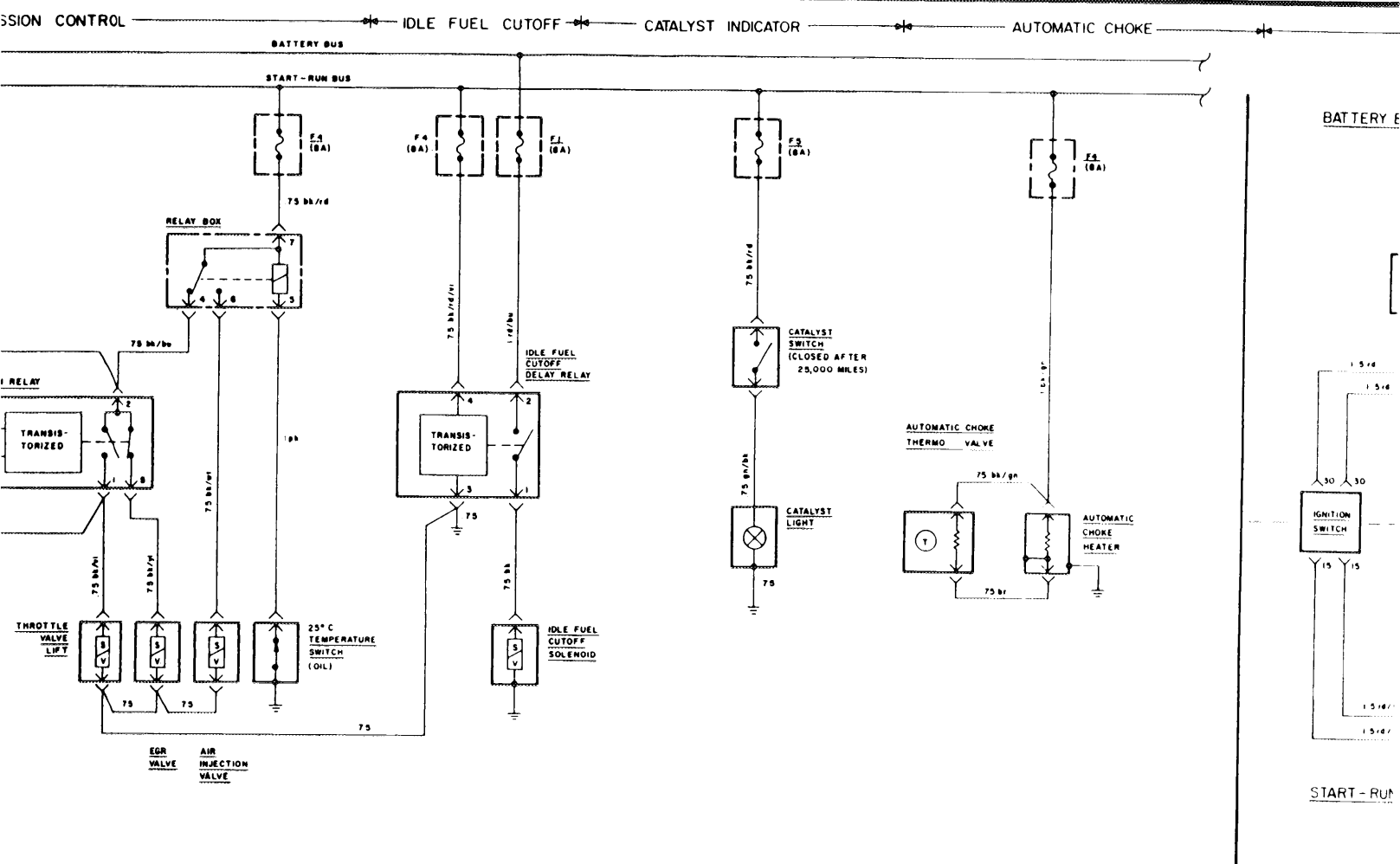
BACKUP
C 104 (12 pi

BRAKE LIQI
Switch
C 104 (12 pi

CATALYST I
Catalyst swi

ENGINE EM
Air injection
valve (blu
EGR switch
Ignition swi
Relay box
RPM relay
Temperature
Throttle lift s

HEATED RE
Time delay r
Fuse 19 (win
C 112



COMPONENT INDEX

SYSTEM/ COMPONENT	LOCATION ON VEHICLE	LOC FIG NO	TERM FIG NO	SYSTEM/ COMPONENT	LOCATION ON VEHICLE	LOC FIG NO	TERM FIG NO
AIR CONDITIONING/HEATING AC blower motor AC/Starter relay, key 4 Change-over switch Fuse 21 (AC blower) Fuse 22 (AC clutch) Heater blower motor presistor C 113 (6 pins)	Center of console Right firewall under fuse bracket Console, left side Right firewall — aux. box Right firewall — aux. box Forward of AC blower Mounted to heater control lever plate	1 14 2 3 4	T7	HORNS C 106 (14 pins) IDLE FUEL CUTOFF Time delay relay Solenoid WINDSHIELD WIPER/WASHER Interval wipe timer Motor C 106 (14 pins)	Under dash — driver's side Behind fuse box Carburetor Under dash — driver's side Firewall — left side Under dash — driver's side	6 13 9 6 3 6	T5 T10 T5
AUTOMATIC CHOKE Automatic Choke Heater	Carburetor	9					
AUXILIARY FAN Aux. fan relay, key 6 Fuse 20 (aux. fan) Temp. switch — engine Temp. switch — refrigerant	Below radio fuse Left fender — aux. box Thermostat housing Right firewall	5					
BACKUP C 104 (12 pins)	Under dash — driver's side	6	T4				
BRAKE LIGHTS Switch C 104 (12 pins)	Above brake pedal Under dash — driver's side	6	T4				
CATALYST INDICATOR Catalyst switch	Speedometer cable under dash						
ENGINE EMISSION CONTROL Air injection switch-over valve (blue) EGR switch-over valve (red) Ignition switch-over valve Relay box RPM relay Temperature switch Throttle lift switch-over valve	Right fender skirt Right fender skirt Right fender skirt Left fender Left fender Oil filter mount Right fender skirt	14 14 14 14 14 14					
HEATED REAR WINDOW Time delay relay Fuse 19 (window) C 112	Under dash — driver's side Left fender — aux. box Behind rear seat — right side	6 7	T14				



Fig. 12
1 — Coolant temperature sensor



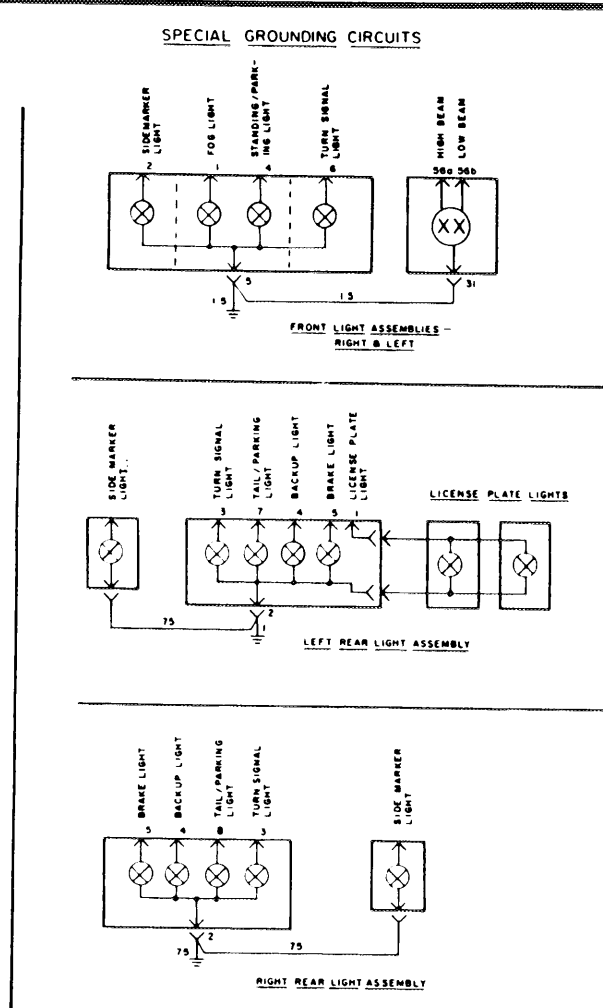
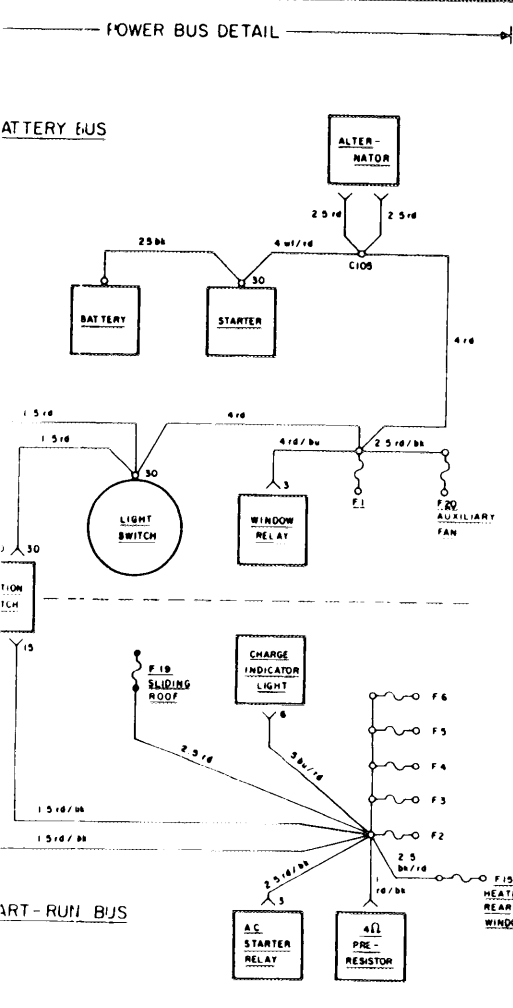
Fig. 13
Time delay relay, idle fuel cutoff



Fig. 14
1 — Air injection sw.
2 — EGR switch-ove
3 — Throttle lift sw
5 — Ignition change



Fig. 15
1 — Brake Fluid Switch
2 — Brake Differential



LOCATION FIGURES



Fig. 14

Injection switch over valve
H switch over valve
bottle lift switch over valve
injection change over valve



Fig. 15

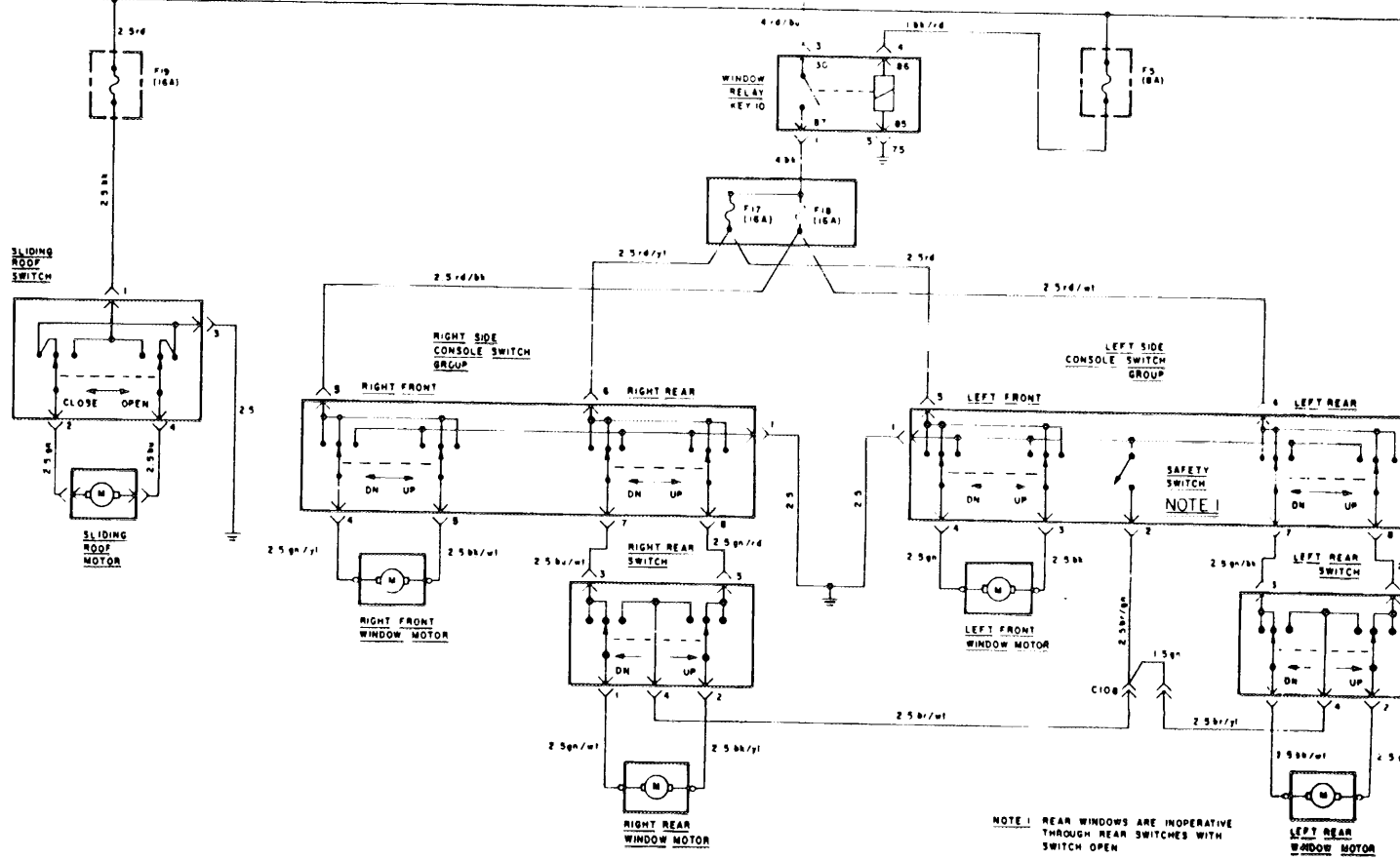
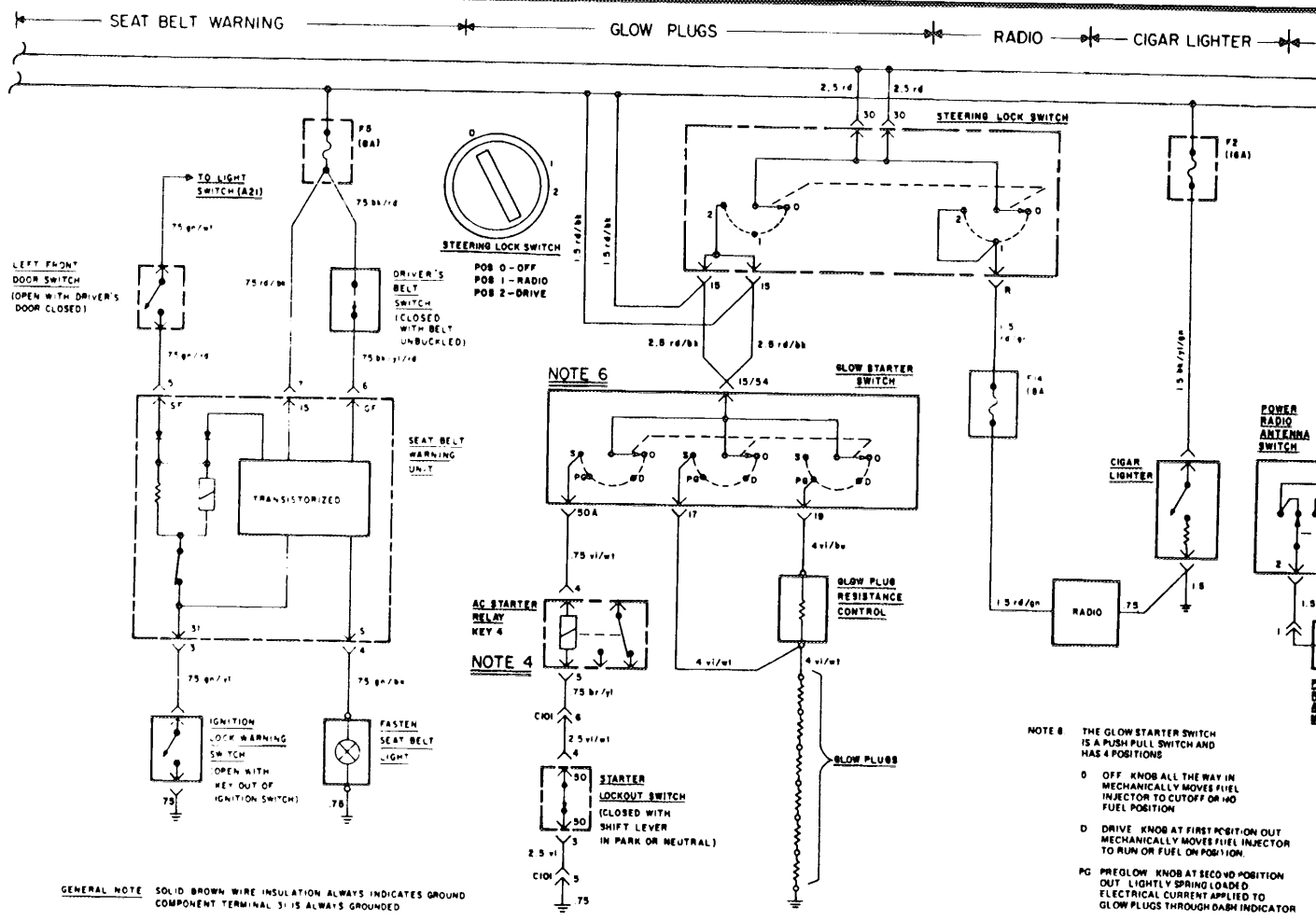
Fluid Switch
Differential Switch

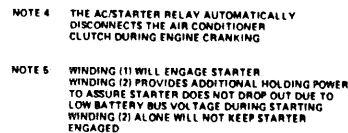
FUSE DATA

Fuse 1 (8 amps) Clock Flasher Idle fuel cut-off solenoid Interior lights Key Buzzer Trunk light	Fuse 6 (5 amps) A/C control light Heater blower motor	Fuse 13 (8 amps) Radio antenna
Fuse 2 (16 amps) Cigar lighter Horns Windshield wiper/washer	Fuse 7 (8 amps) A/C thermostat illumination Flasher illumination Front standing parking (right) Instrument cluster lights Left and right markers License plate light Tail light (right)	Fuse 14 (8 amps) Radio
Fuse 3 (8 amps) Kickdown solenoid	Fuse 8 (8 amps) Front standing parking (left) Left tail light	Fuse 15 (16 amps) Heated rear window
Fuse 4 (8 amps) Air injection valve Automatic choke Auxiliary fan relay EGR valve Idle fuel cut-off delay relay Throttle valve lift Turn signal	Fuse 9 (8 amps) High beam indicator Right head lights, high beam	Fuse 16 Not used
Fuse 5 (8 amps) Backup lights Brake lights Catalyst light Glove box light Instruments Seat belt warning Window control	Fuse 10 (8 amps) Left headlight, high beam	Fuse 17 (16 amps) Left front window Right rear window
	Fuse 11 (8 amps) Fog lights Right head light, low beam	Fuse 18 (16 amps) Left rear window Right front window
	Fuse 12 (8 amps) Left head light, low beam	Fuse 19 (16 amps) Sliding roof
		Fuse 20 (16 amps) Auxiliary fan motor
		Fuse 21 (8 amps) A/C Blower motor
		Fuse 22 (5 amps) Air Conditioner clutch

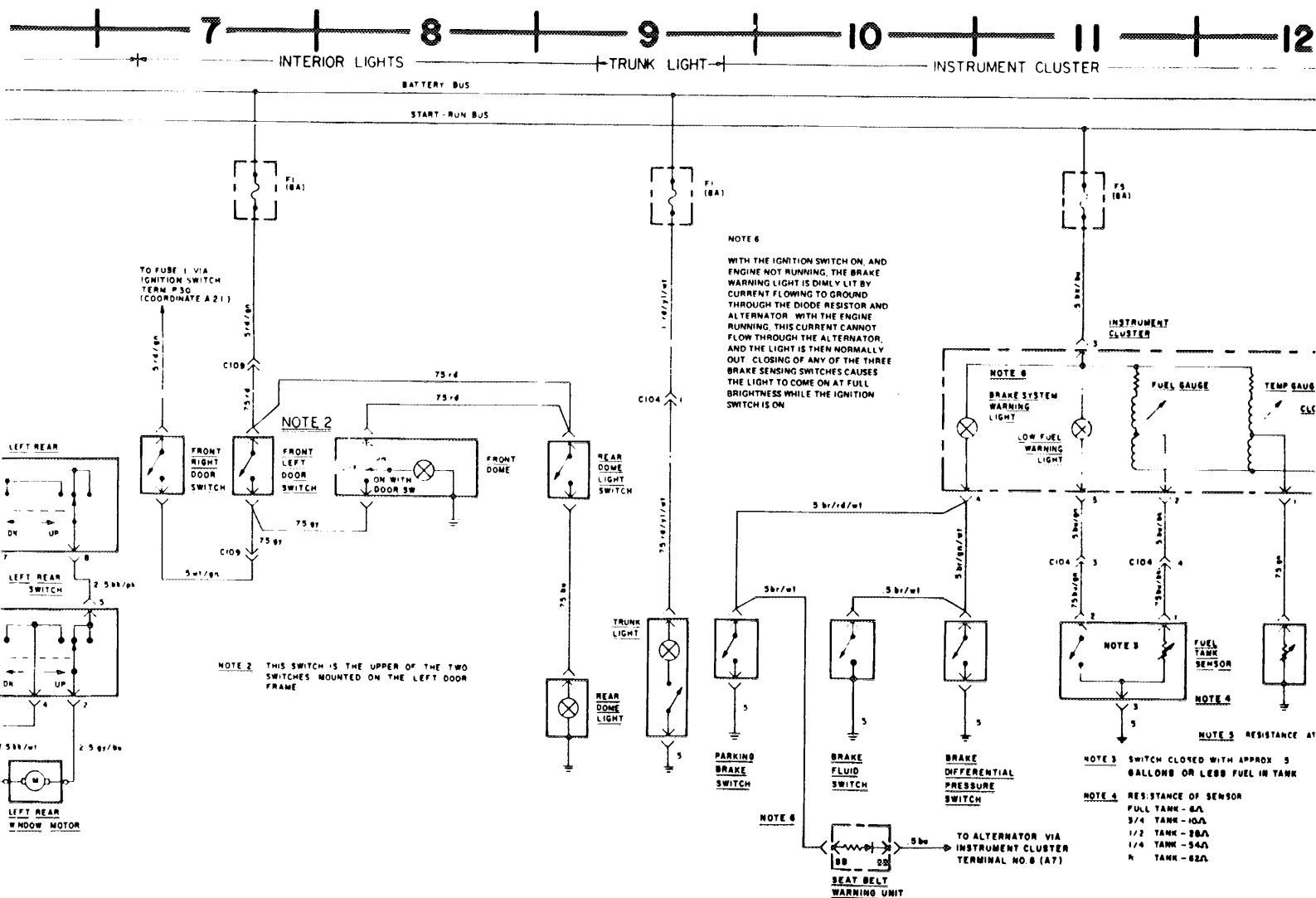
1976 230

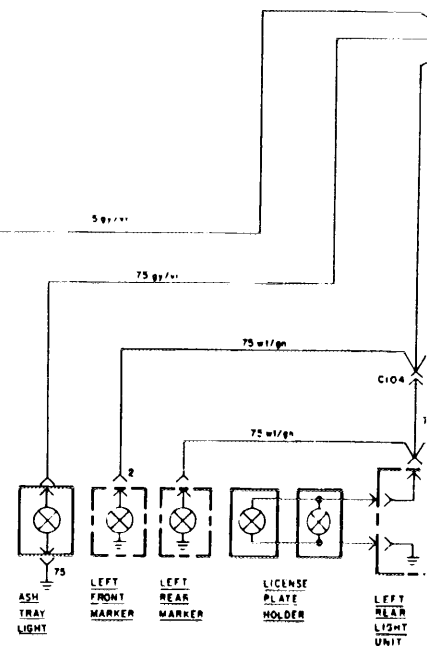
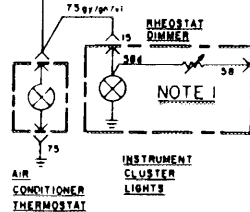
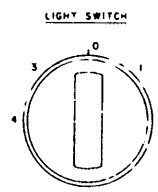
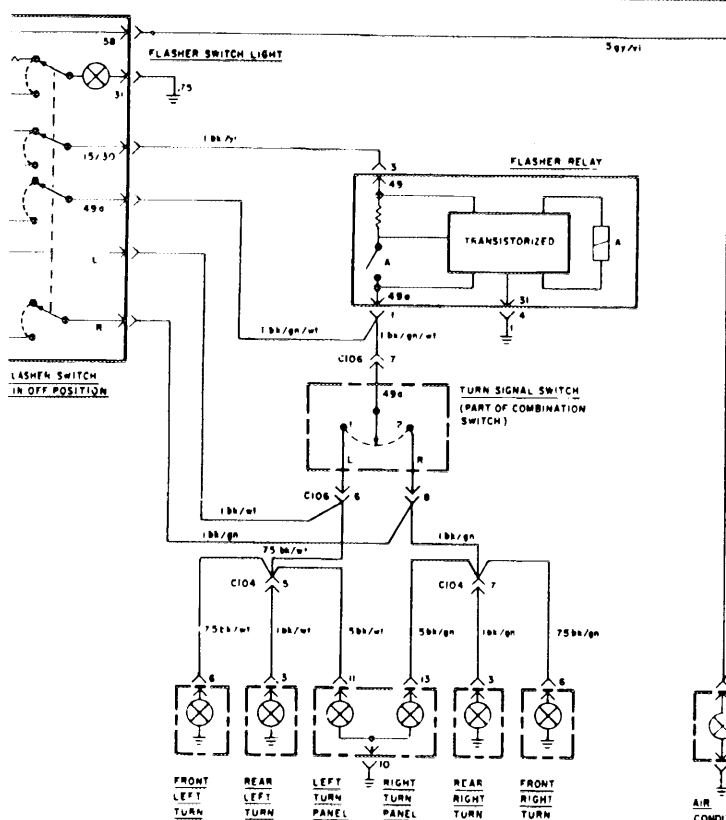
AIR CONDITIONING CONTROL	L6
AUTOMATIC CHOKE	L18
AUXILIARY FAN	L10
CHARGE	B8
CIGAR LIGHTER	C6
CLOCK	F12
COOLANT TEMPERATURE GAUGE	F12
ENGINE EMISSION CONTROL	L13
FUEL GAUGE	F11
HEATED REAR WINDOW	R3
HEATER CONTROL	L6
HORNS	L11
IDLE FUEL CUTOFF	L15
IGNITION SYSTEM	B11
KICKDOWN	B23
LIGHT CIRCUITS	
AIR CONDITIONING THERMOSTAT	D16
BACKUP	R5
BRAKE	R1
BRAKE SYSTEM WARNING	F11
CATALYST INDICATOR	L16
CIGAR LIGHTER	C6
FOG	D21
GLOVE BOX	R2
HEAD	D22
INSTRUMENT CLUSTER	D16
INTERIOR	F7
LOW FUEL WARNING	F11
MARKER	D17/D18
PARKING	D20
STANDING	D20
TAIL	D20
TRUNK	G9
POWER ANTENNA	B6
RADIO	B6
SEAT BELT WARNING	B2
SLIDING ROOF	F1
START	B3/B8
TURN SIGNAL/FLASHER	B13
WINDOWS	F4
WINDSHIELD WIPER/WASHER	L3
POWER BUS DETAILS	L20
SPECIAL GROUNDING CIRCUITS	L22





POSITION OUT.
2 ELECTRICAL
1LY TO GLOW
3 CIRCUITS.

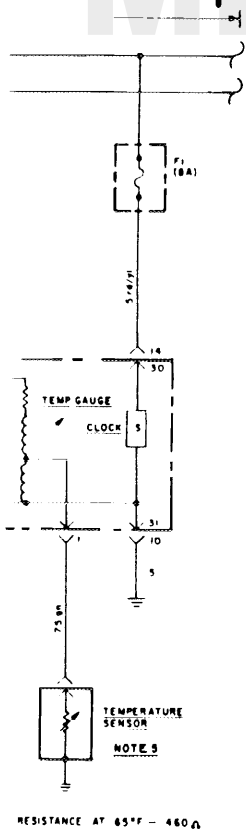




12 13 14 15 16 17

COMPONENT INDEX

SYSTEM / COMPONENT	LOCATION ON VEHICLE	LOC FIG NO	TERM FIG NO	SYSTEM / COMPONENT	LOCATION ON VEHICLE	LOC FIG NO	TERM FIG NO
CHARGE Regulator C105	Alternator Firewall			TRUNK LIGHT C104 (12 pins)	Under dash, driver's side	6	T4
ELECTRIC WINDOWS Front seat switch Window relay — key 10	Front seat console Right firewall under fuse bracket		T8 T7	TURN SIGNAL AND FLASHER Flasher relay C104 (12 pins) C106 (14 pins)	Under dash, driver's side Under dash, driver's side Under dash, driver's side	6 6 6	T4 T4 T5
GLOW PLUGS A/C starter relay, key 4 Glow plug resistance control Glow starter switch Starter Lockout switch	rt. firewall — under fuse bracket Dash L. side trans. (auto trans.) top of trans. (stand. trans.) lower center console		T7				
INSTRUMENT CLUSTER Brake fluid switches Coolant temp. sensor Fuel tank sensor Parking brake switch C104 (12 pins)	Brake fluid reservoir Left front cylinder head Trunk Top parking brake Under dash, driver's side	3 9 6	T4				
INTERIOR LIGHTS C109	Console						
KICKDOWN CIRCUIT Switch	Below accelerator pedal	8					
LIGHT SWITCH C104 (12 pins) C106 (14 pins)	Under dash, driver's side Under dash, driver's side	6 6	T4 T5				
SEAT BELT WARNING Ignition warning switch Warning unit	Ignition switch Under dash, driver's side		T12				
SLIDING ROOF Motor	Behind spare tire						
START AC/Starter relay, key 4	Right firewall, under fuse bracket		T7				



APPROX 5
FUEL IN TANK

JR



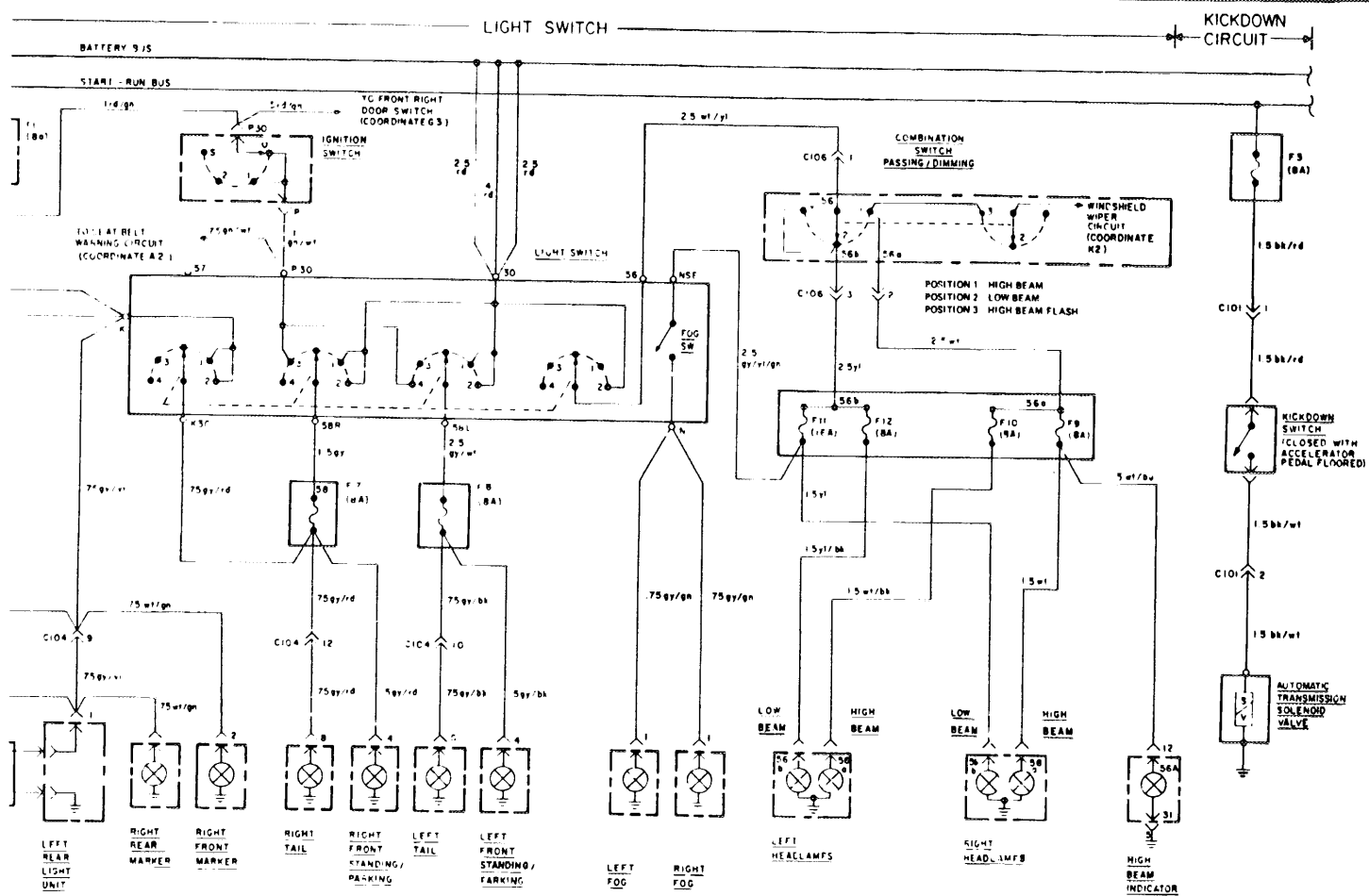
1 - A/C Blower



1 - Change over



1 - Main fuse b
2 - Heater blow
3 - Brake fluid
4 - Wiper motc



LOCATION FIGURES



Fig 1
1 - A/C Blower motor

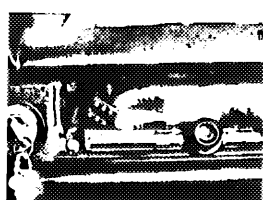


Fig 4
1 - C 113



Fig 7
1 - C 112



Fig 2
1 - Change over switch for Blower Motors



Fig 5
1 - Temperature switch, refrigerant



Fig 8
1 - Kickdown switch



Fig 3
1 - Main fuse box
2 - Heater blower prr resistors
3 - Brake fluid switches
4 - Wiper motor



Fig 6
1 - Flasher relay
2 - Time delay relay, heated rear window
3 - Interval wiper timer
4 - C 104
5 - C 106

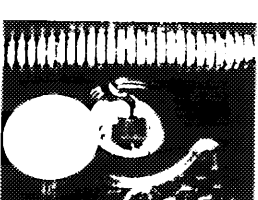
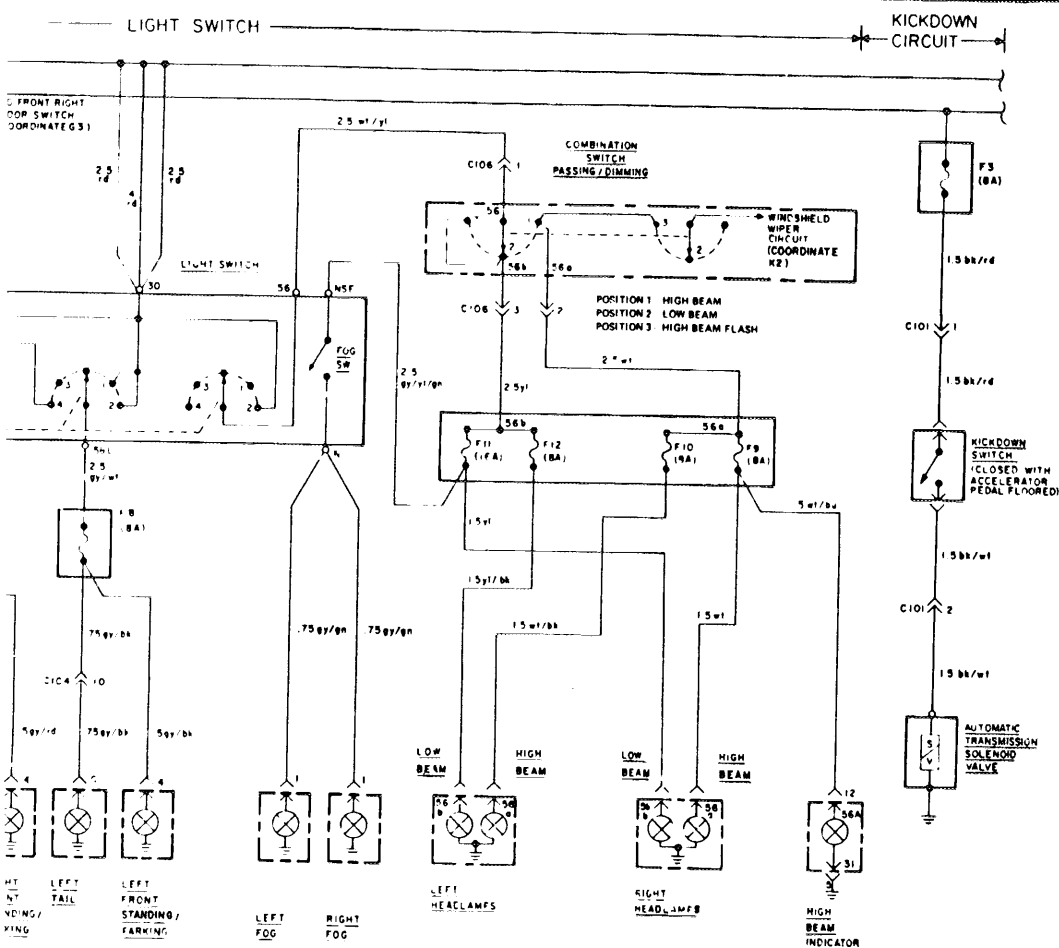


Fig 9
Fuel tank sensor

AIR CONDITION
AUXILIARY FAN
CHARGE
CIGAR LIGHTER
CLOCK
COOLANT TEMPE
FUEL GAUGE
GLOW PLUGS
HEATED REAR WI
HEATER CONTRO
HORNS
KICKDOWN
LIGHT CIRCUITS
AIR CONDITION
ASH TRAY
BACKUP
BRAKE SYSTEM
FOG
GLOVE BOX
HEAD
INSTRUMENT CI
INTERIOR
LOW FUEL WAR
MARKER
PARKING
STANDING
TAIL
TRUNK
POWER ANTENNA
RADIO
SEAT BELT WARN
SLIDING ROOF
START
TURN SIGNAL/FLA
WINDOWS
WINDSHIELD WIFE

POWER BUS DETAI
SPECIAL GROUND



A

B

C

D

19 20 21 22 23 24

LOCATION FIGURES

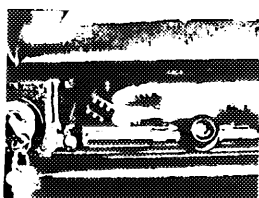


Fig 4

1 - C 113

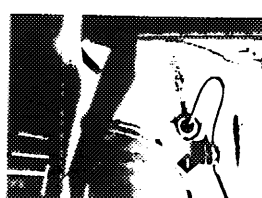


Fig 7

1 - C 112



Fig 5

- Temperature switch, refrigerant



Fig 8

1 - Kickdown switch



Fig 6

Flasher relay
Time delay relay, heated rear window
Interval wiper timer
C 104
C 106

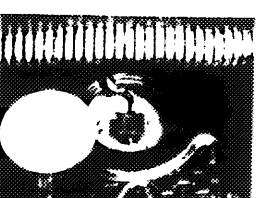


Fig 9

Fuel tank sensor

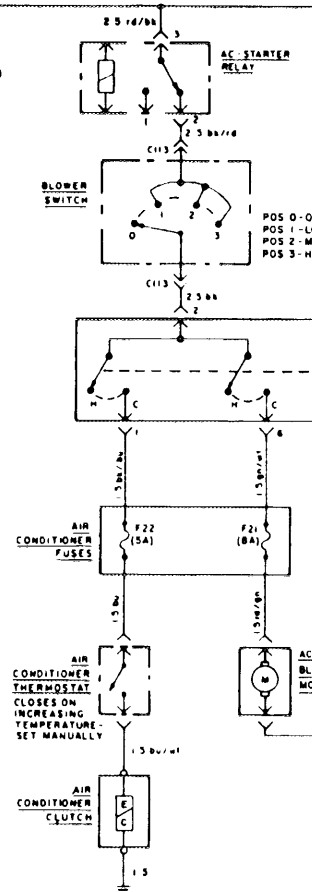
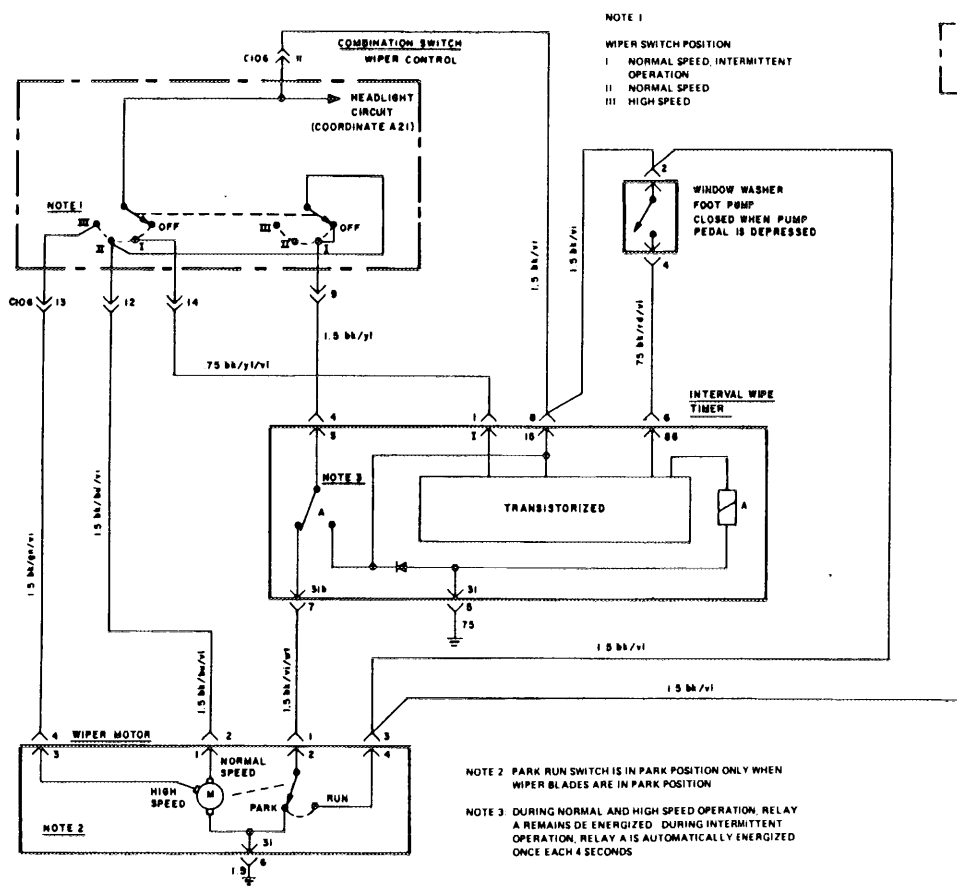
1976 240 D

AIR CONDITIONING CONTROL	K8
AUXILIARY FAN	L10
CHARGE	B8
CIGAR LIGHTER	B8
CLOCK	F12
COOLANT TEMPERATURE GAUGE	F12
FUEL GAUGE	F12
GLOW PLUGS	C4
HEATED REAR WINDOW	L14
HEATER CONTROL	M6
HORNS	K11
KICKDOWN	B22
LIGHT CIRCUITS	
AIR CONDITIONING THERMOSTAT	D14
ASH TRAY	D16
BACKUP	L16
BRAKE	L12
BRAKE SYSTEM WARNING	F11
FOG	D20
GLOVE BOX	L13
HEAD	D20/D21
INSTRUMENT CLUSTER	C15
INTERIOR	F8
LOW FUEL WARNING	F11
MARKER	D18/D17
PARKING	D18
STANDING	D18
TAIL	D18
TRUNK	G8
POWER ANTENNA	B7
RADIO	C5
SEAT BELT WARNING	B3
SLIDING ROOF	F1
START	
TURN SIGNAL/FLASHER	B3
WINDOWS	F4
WINDSHIELD WIPER/WASHER	L3
POWER BUS DETAILS	L18
SPECIAL GROUNDING CIRCUITS	L21

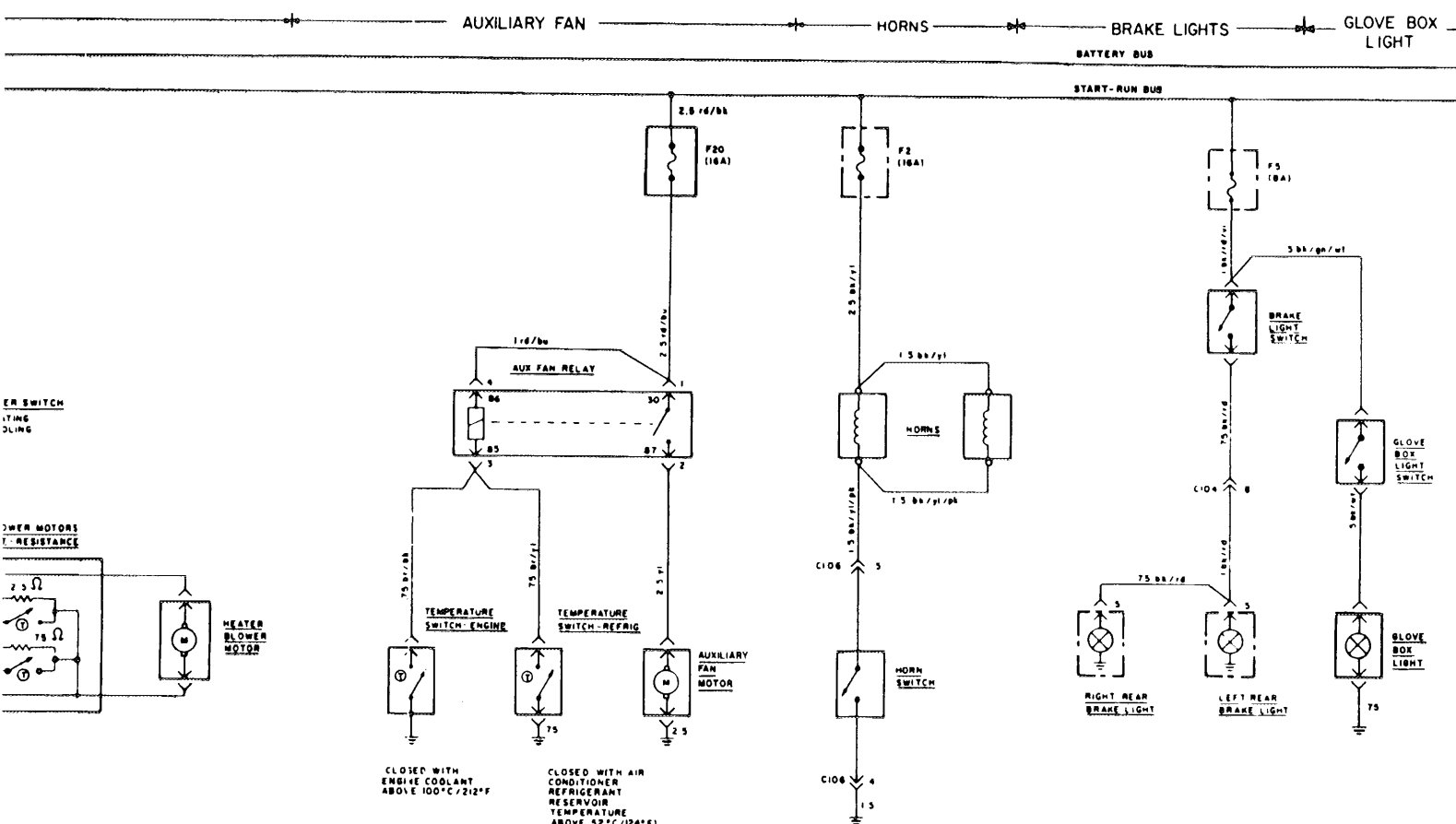
WINDSHIELD WIPER / WASHER

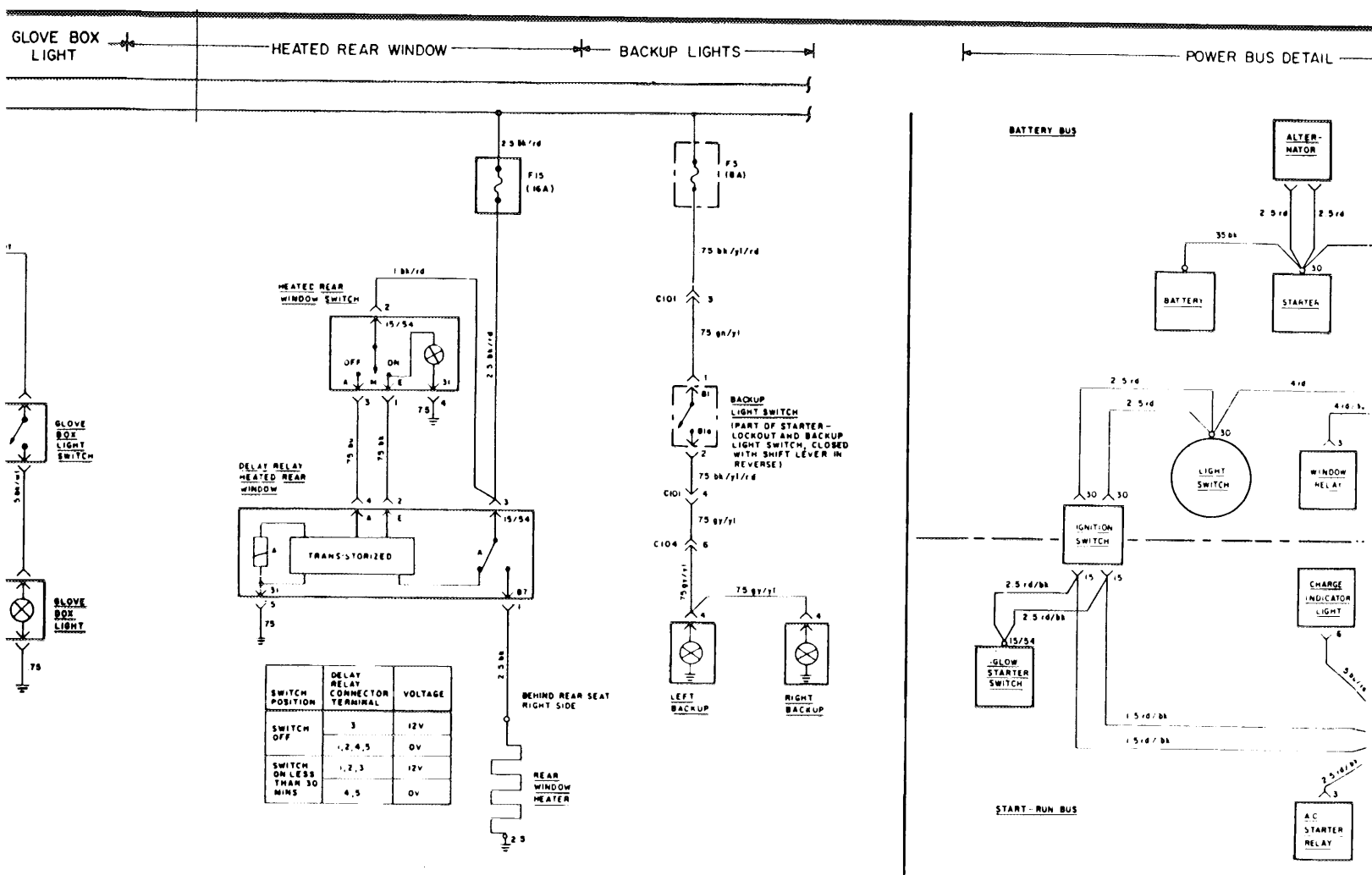
BATTERY BUS

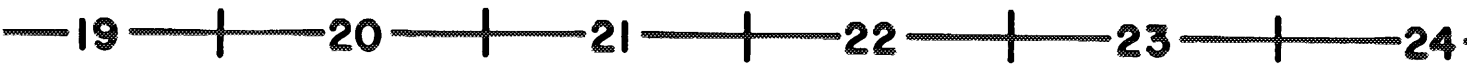
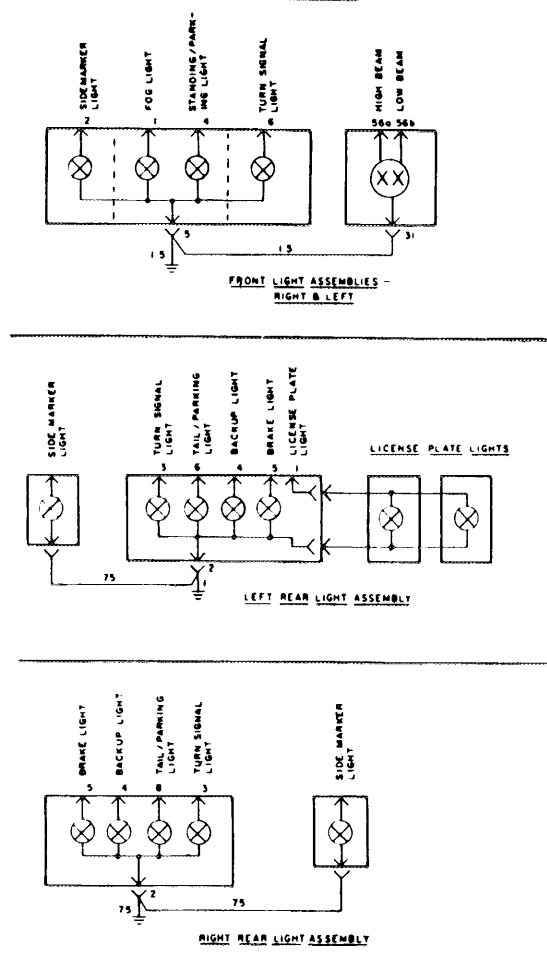
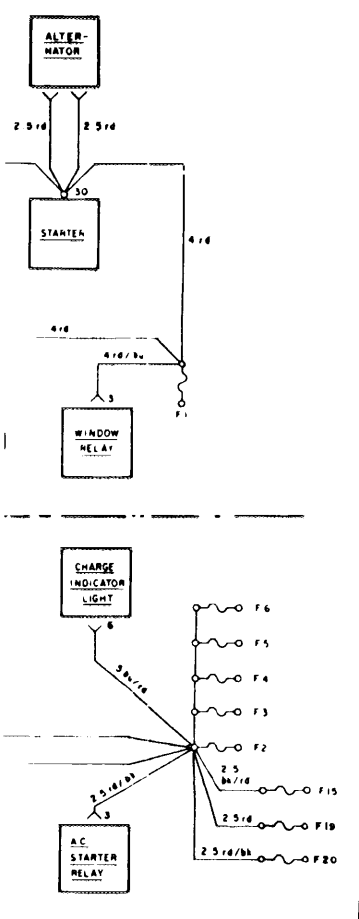
START - RUN BUS











LOCATION FIGURES

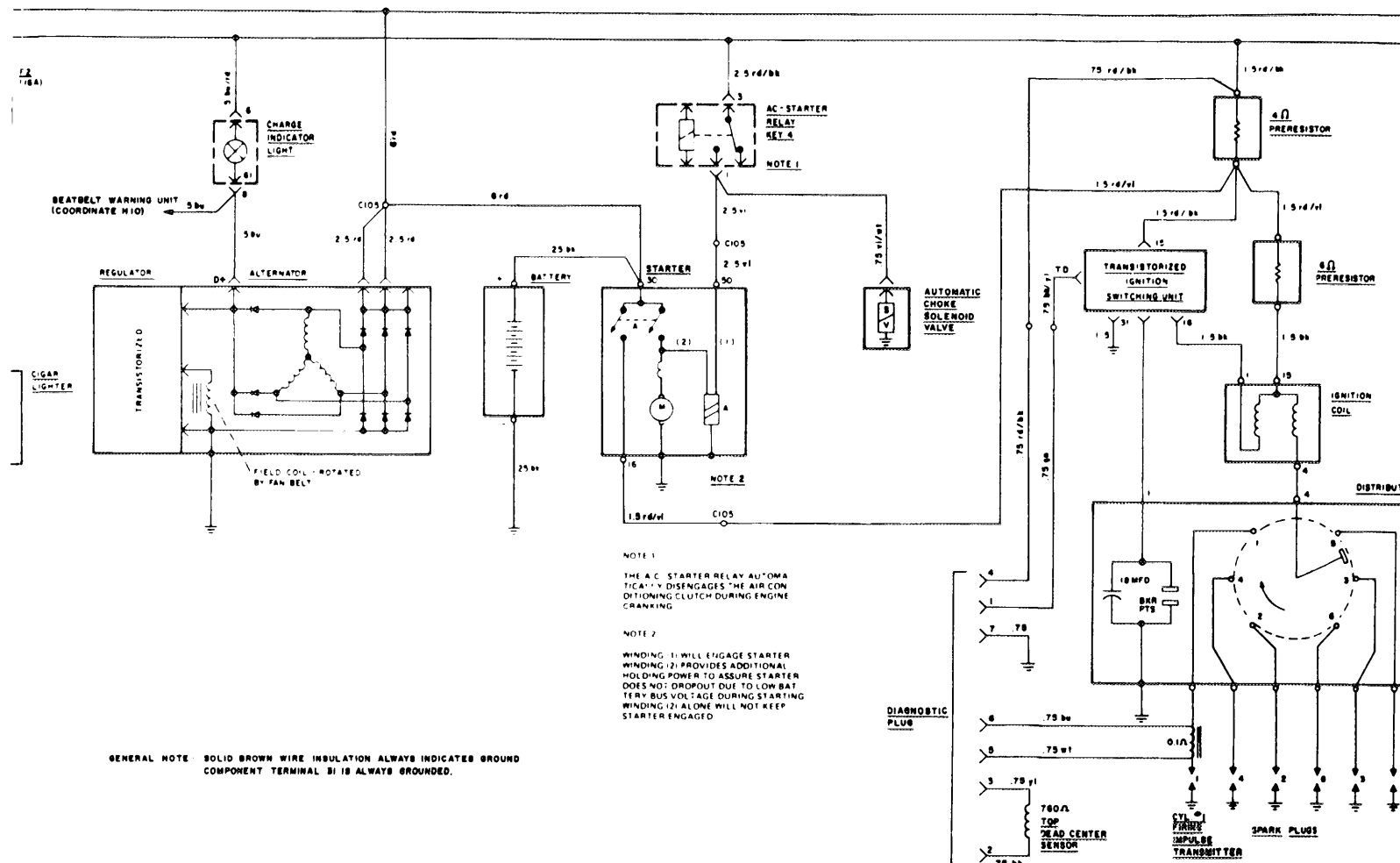
1976 240 D

FUSE DATA

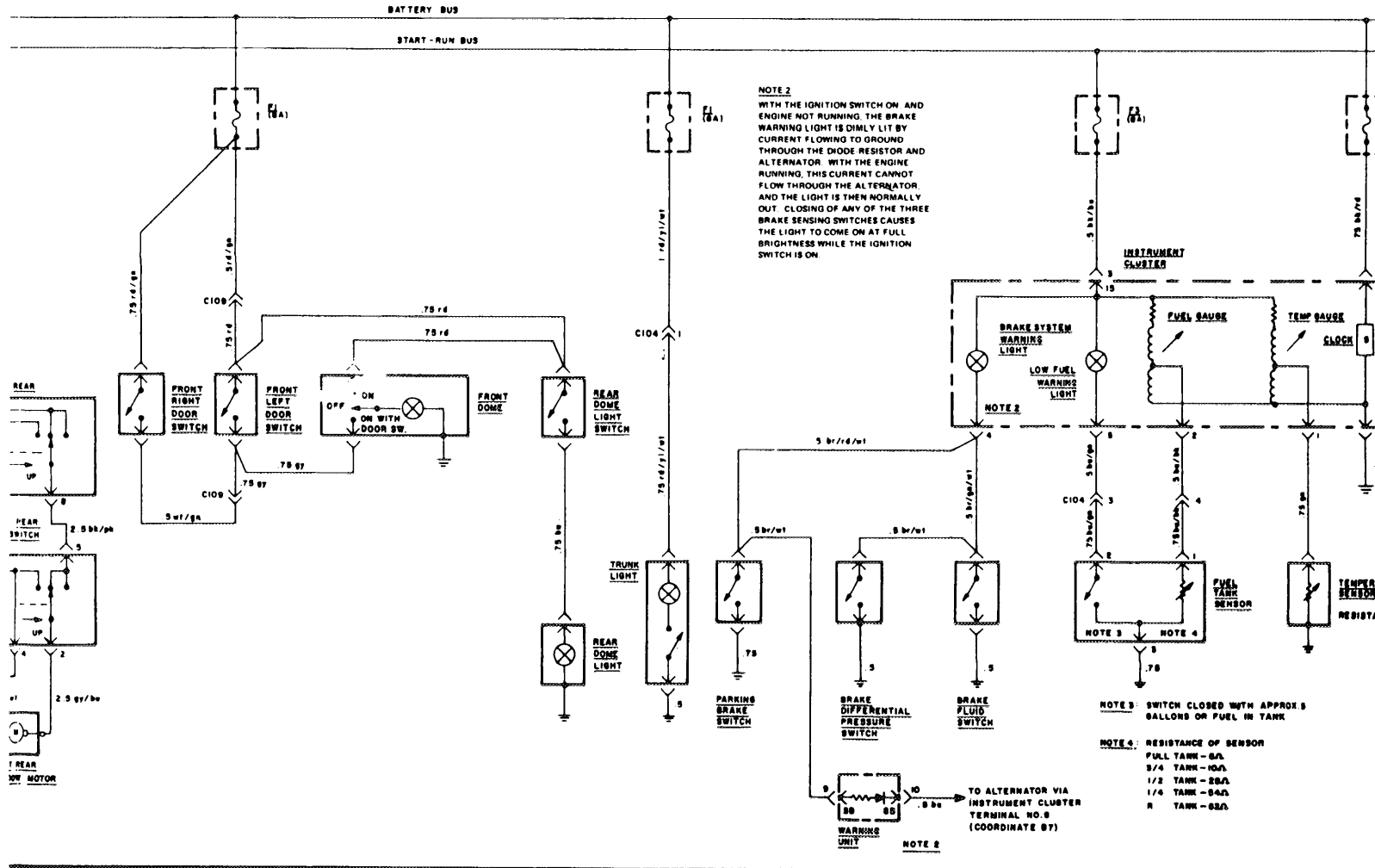
Fuse 1 (8 amps) Clock Flasher Interior lights Key Buzzer Trunk light	Fuse 8 (8 amps) Front standing/parking (left) Left tail light	Fuse 20 (16 amps) Auxiliary fan motor Auxiliary fan relay
Fuse 2 (16 amps) Horns Windshield wiper/washer	Fuse 9 (8 amps) High beam indicator Right head lights, high beam	Fuse 21 (8 amps) A/C Blower motor
Fuse 3 (8 amps) Kickdown switch Auto transmission solenoid valve	Fuse 10 (8 amps) Left headlight, high beam	Fuse 22 (5 amps) Air conditioner clutch
Fuse 4 (8 amps) Turn signal	Fuse 11 (8 amps) Fog lights Right head light, low beam	
Fuse 5 (8 amps) Backup lights Brake lights Glove box light Instrument cluster Seat belt warning Window control	Fuse 12 (8 amps) Left head light, low beam	
Fuse 6 (5 amps) A/C control light Heater blower motor	Fuse 13 (8 amps) Radio antenna	
Fuse 7 (8 amps) A/C thermostat illumination Flasher illumination Front standing/parking (right) Instrument cluster lights Left and right markers License plate light Tail light (right) Ash tray light	Fuse 14 (8 amps) Radio	
	Fuse 15 (16 amps) Heated rear window	
	Fuse 16 Not used	
	Fuse 17 (16 amps) Left front window Right rear window	
	Fuse 18 (16 amps) Left rear window Right front window	
	Fuse 19 (16 amps) Sliding roof	

AIR CONDITIONING CONTROL	K6
AUXILIARY FAN	L10
CHARGE	B8
CIGAR LIGHTER	B6
CLOCK	F12
COOLANT TEMPERATURE GAUGE	F12
FUEL GAUGE	F12
GLOW PLUGS	C4
HEATED REAR WINDOW	L14
HEATER CONTROL	M6
HORNS	K11
KICKDOWN	B22
LIGHT CIRCUITS	
AIR CONDITIONING THERMOSTAT	D14
ASH TRAY	D16
BACKUP	L16
BRAKE	L12
BRAKE SYSTEM WARNING	F11
FOG	D20
GLOVE BOX	L13
HEAD	D20/D21
INSTRUMENT CLUSTER	C15
INTERIOR	F8
LOW FUEL WARNING	F11
MARKER	D16/D17
PARKING	D18
STANDING	D18
TAIL	D18
TRUNK	G9
POWER ANTENNA	B7
RADIO	C5
SEAT BELT WARNING	B3
SLIDING ROOF	F1
START	C3/B10
TURN SIGNAL/FLASHER	B3
WINDOWS	F4
WINDSHIELD WIPER/WASHER	L3
POWER BUS DETAILS	L18
SPECIAL GROUNDING CIRCUITS	L21

CHARGE START IGNITION SYSTEM

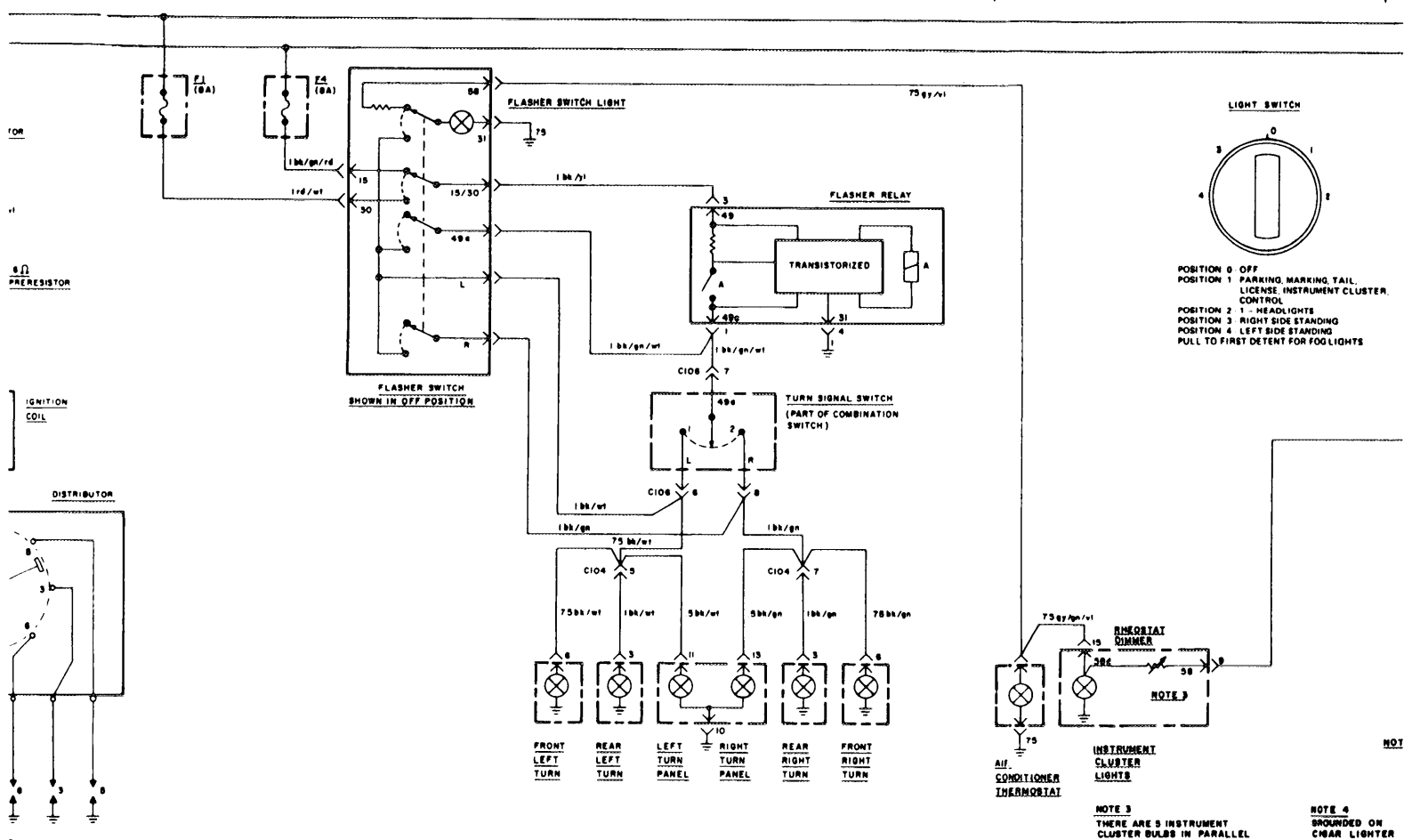


7 8 9 10 11 12 INTERIOR LIGHTS INSTRUMENT CLUSTER



TURN SIGNAL AND FLASHER

CONTROL LIGHTS



12 13 14 15 16 17

COMPONENT INDEX

SYSTEM/ COMPONENT	LOCATION ON VEHICLE	LOC FIG NO	TERM FIG NO	SYSTEM/ COMPONENT	LOCATION ON VEHICLE	LOC FIG NO	TERM FIG NO
CHARGE Regulator C 105	Alternator Firewall			TURN SIGNAL AND FLASHER Flasher relay C 104 (12 pins) C 106 (14 pins)	Under dash, driver's side Under dash, driver's side Under dash, driver's side	6 6 6	T6 T4 T5
ELECTRIC WINDOWS Front seat switch Window relay — key 10 C 108	Front seat console Right side under dash Console		T8 T7				
IGNITION SYSTEM Coil Distributor 4 Ohm presistor 6 Ohm presistor Transistorized Ignition switching unit	Left front fender Left front fender Left front fender Left front fender Left front fender	8 8 8 8					
INSTRUMENT CLUSTER Brake fluid switches Coolant temp. sensor Fuel tank sensor Parking brake switch C 104 (12 pins)	Brake fluid reservoir Right front cylinder head Trunk Top parking brake Under dash, driver's side	3 11 9	T4				
INTERIOR LIGHTS C 109	Console						
KICKDOWN CIRCUIT Switch	Below accelerator pedal	10					
LIGHT SWITCH C 104 (12 pins) C 106 (14 pins)	Under dash, driver's side Under dash, driver's side	6 6	T4 T5				
SEAT BELT WARNING Ignition warning switch Warning buzzer	Ignition switch Under dash, driver's side	6	T12				
SLIDING ROOF Motor	Behind spare tire						
START AC/Starter relay, key 4	Right side, under dash		T7				



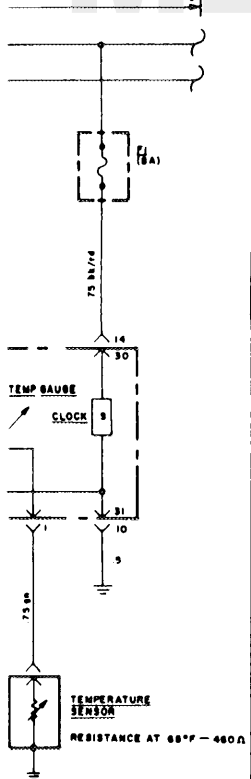
1 — A/C Blower

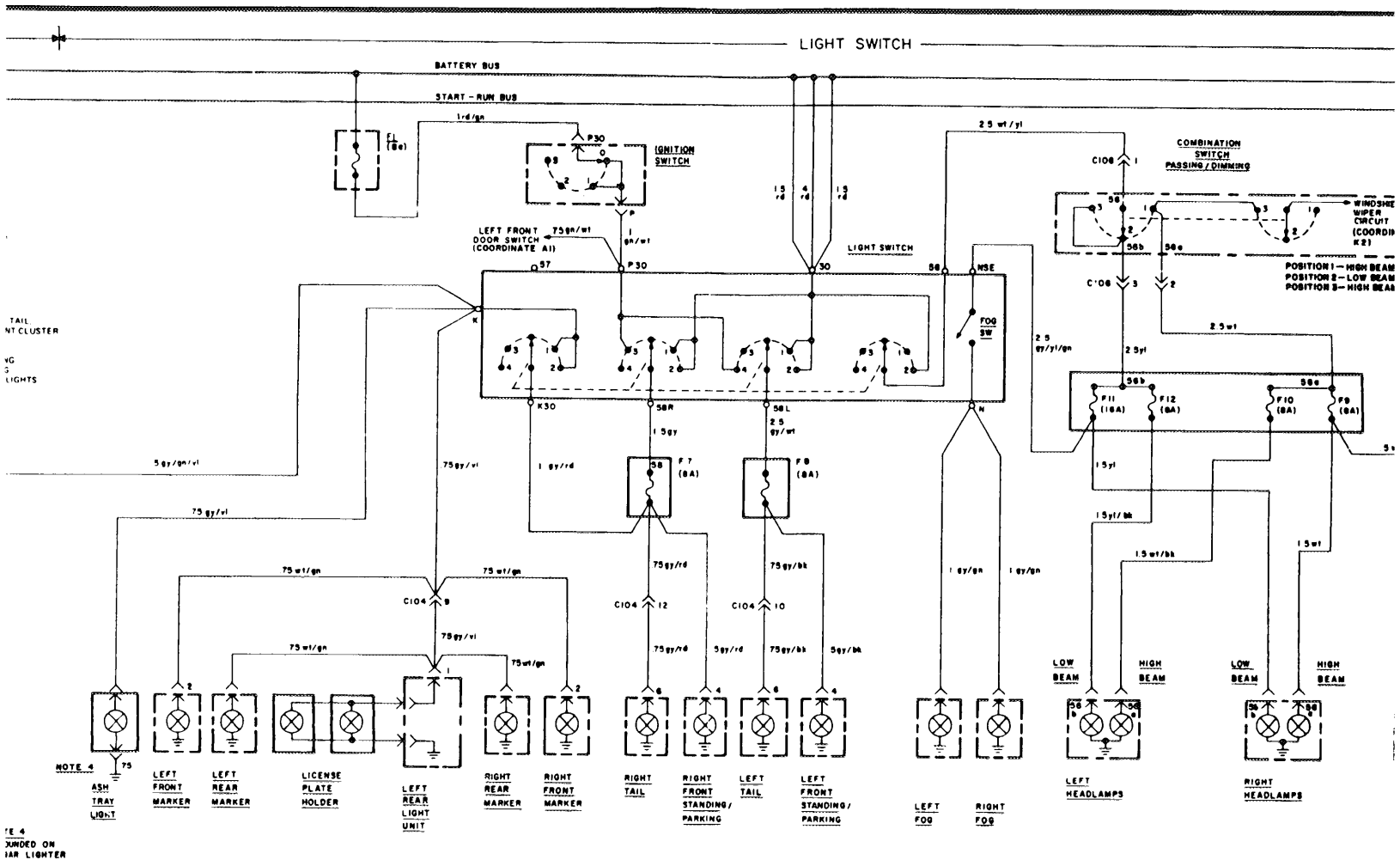


1 — Change over

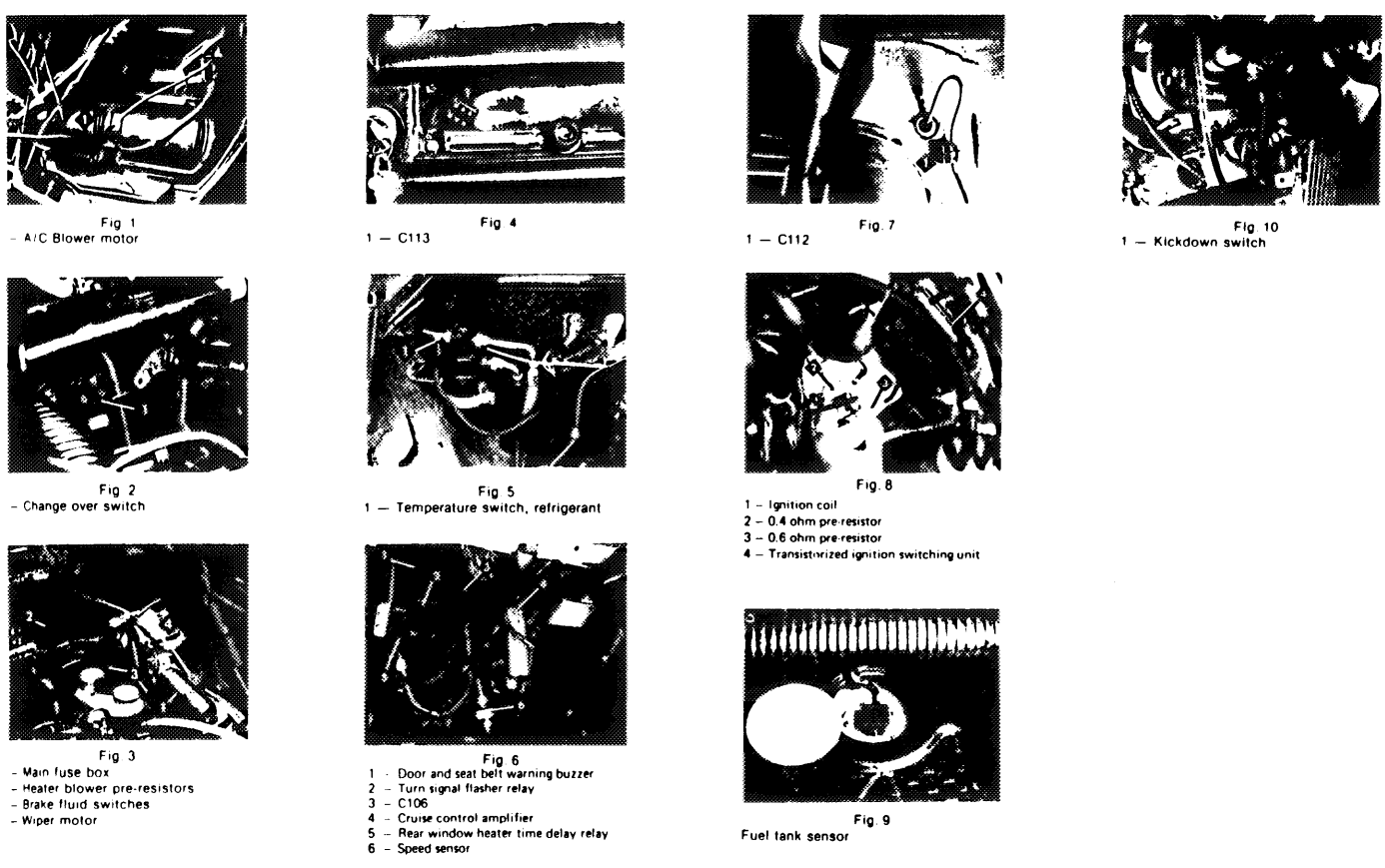


1 — Main fuse
 2 — Heater blower
 3 — Brake fluid
 4 — Wiper motor

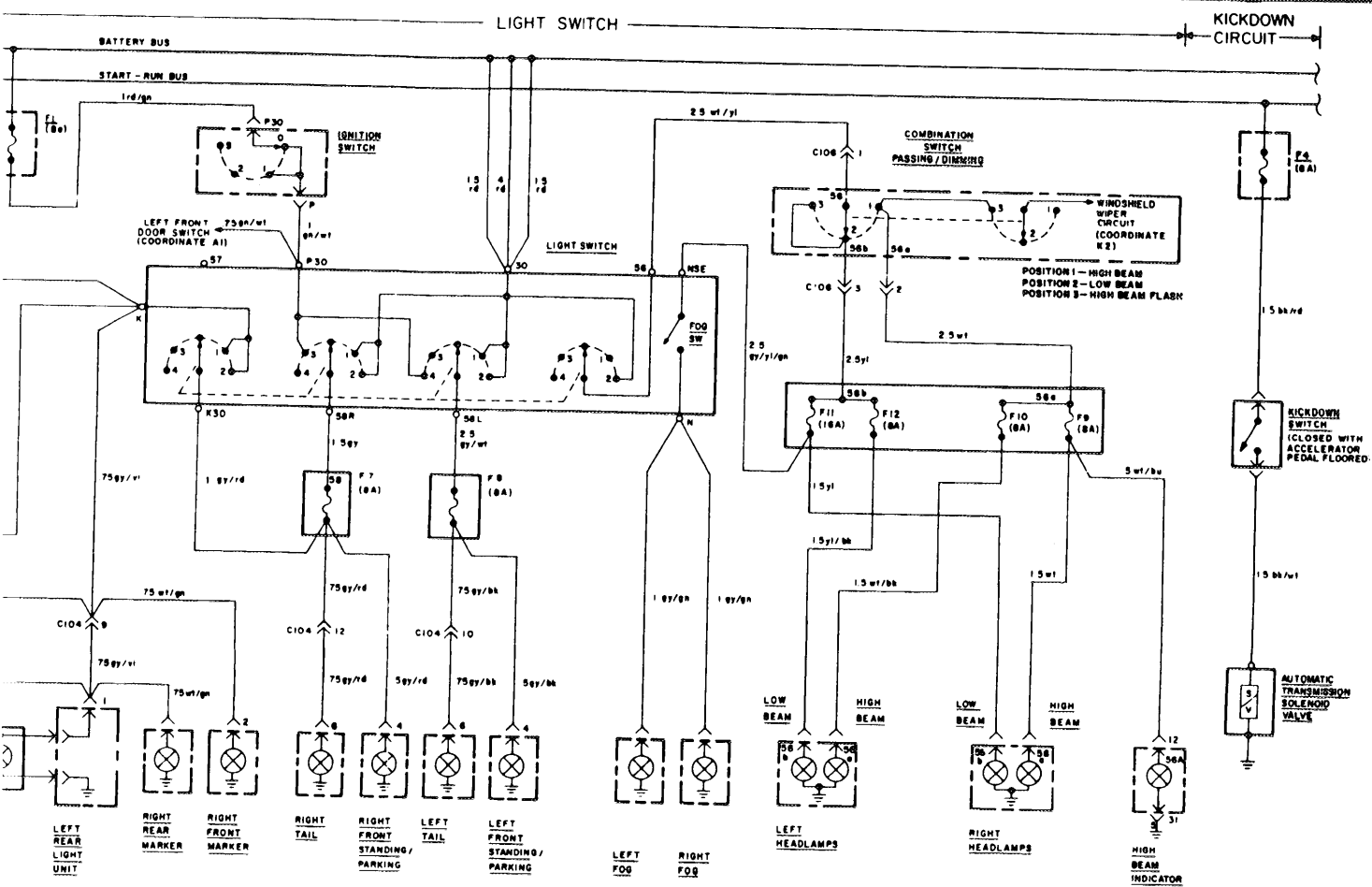




LOCATION FIGURES



- AIR CONDITIONING
- AUXILIARY FAN
- CHARGE
- CIGAR LIGHTER
- CLOCK
- COOLANT TEMPERATURE
- ENGINE EMISSION CONTROL
- FUEL GAUGE
- HEATED REAR WINDOW
- HEATER CONTROL
- HORNS
- IGNITION SYSTEM
- KICKDOWN
- KICKDOWN SWITCH
- LIGHT CIRCUITS
- AIR CONDITIONING
- ASH TRAY
- BACKUP
- BRAKE
- BRAKE SYSTEM WARNING
- FOG
- GLOVE BOX
- HEAD
- INSTRUMENT CLUSTER
- INTERIOR
- LOW FUEL WARNING
- MARKER
- PARKING
- STANDING
- TAIL
- TRUNK
- POWER ANTENNA
- RADIO
- SEAT BELT WARNING
- SLIDING ROOF
- START
- TURN SIGNAL/FLASHER
- WINDOWS
- WINDSHIELD WIPER/W
- POWER BUS DETAILS
- SPECIAL GROUNDING



A

B

C

D



LOCATION FIGURES

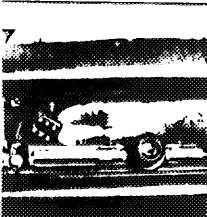


Fig 4

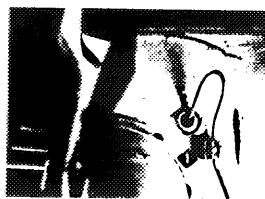


Fig 7



Fig 10



Fig 5



Fig 8



Fig 6

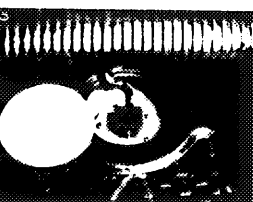
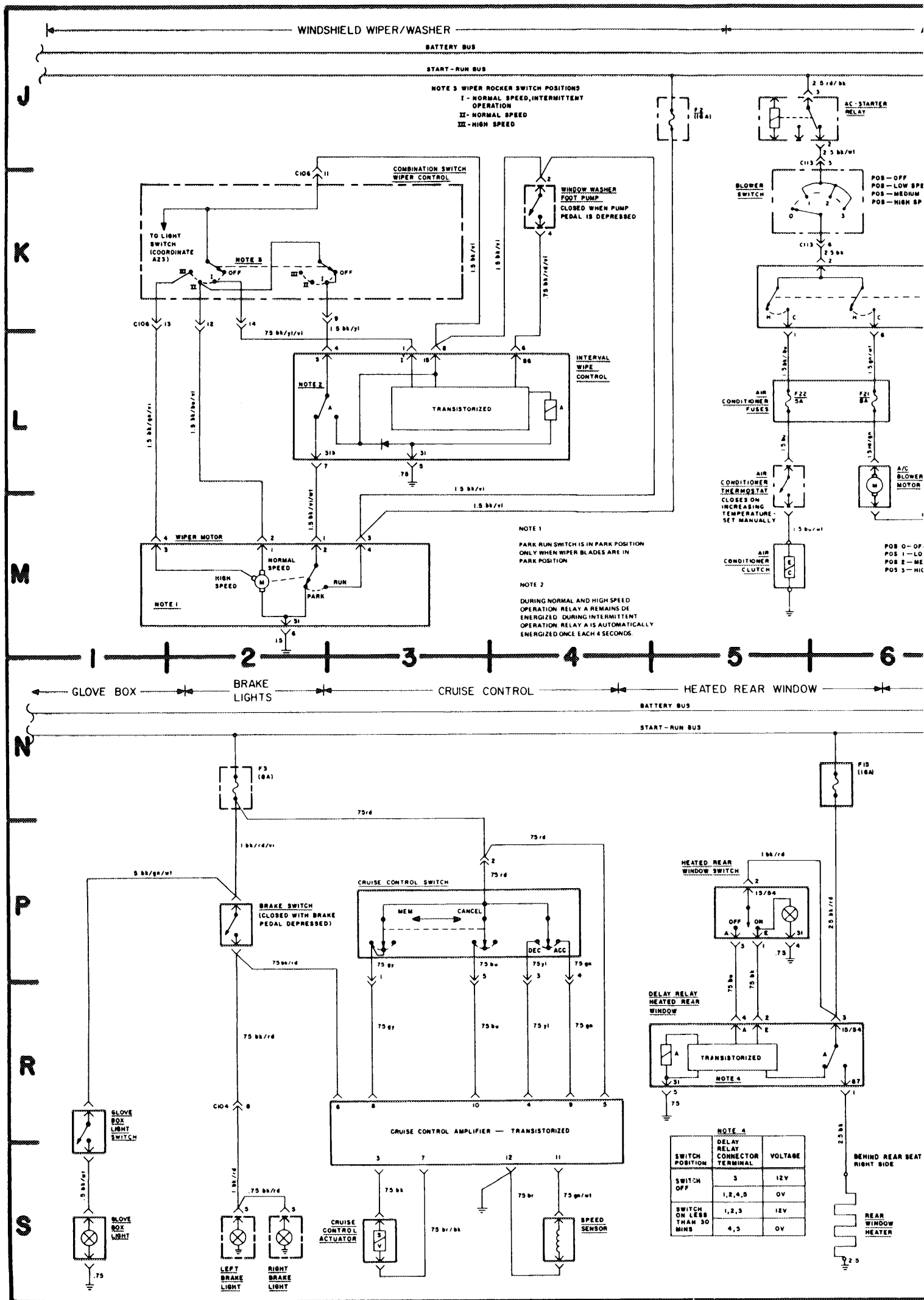


Fig 9

1976 280/280 C

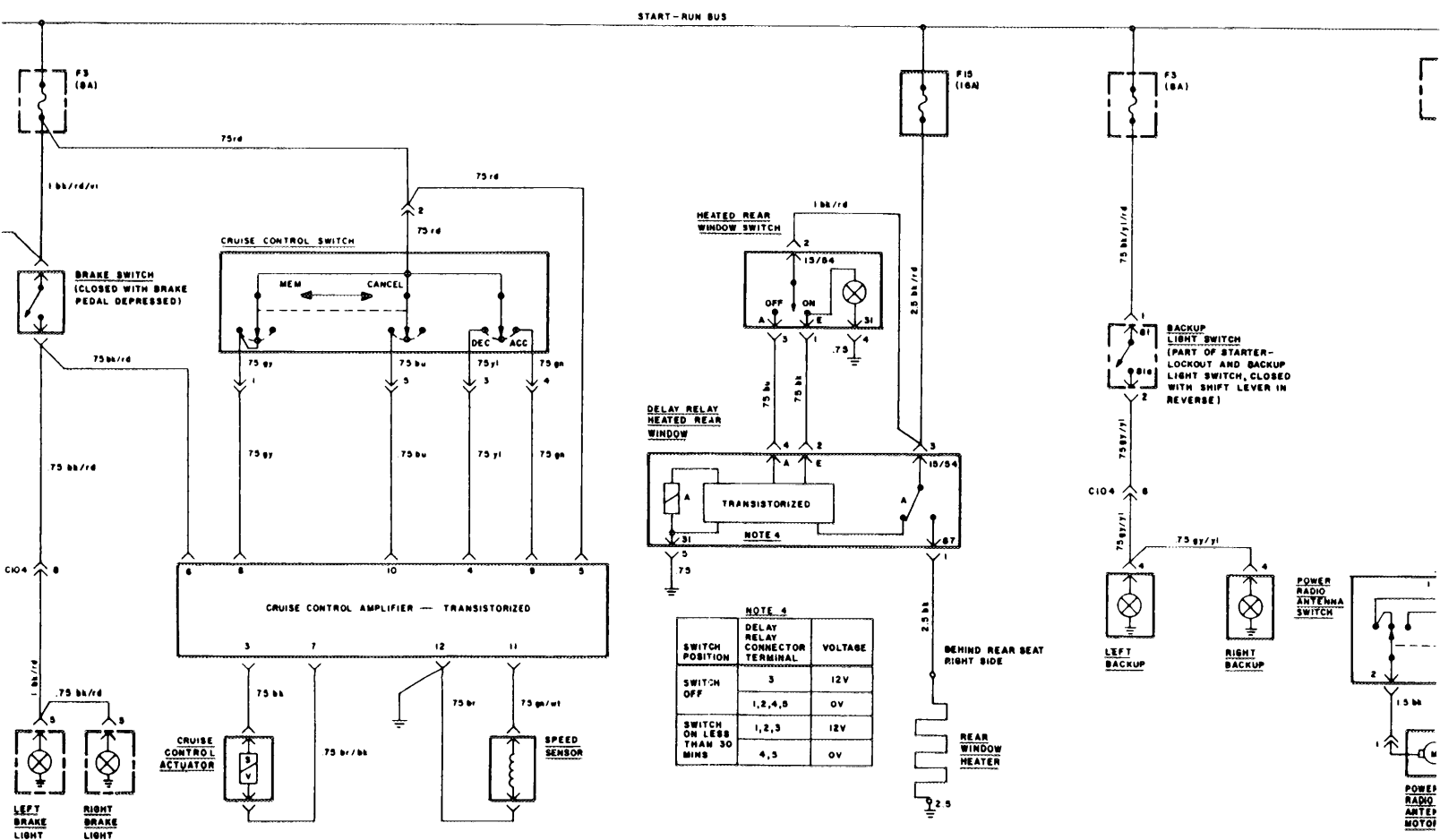
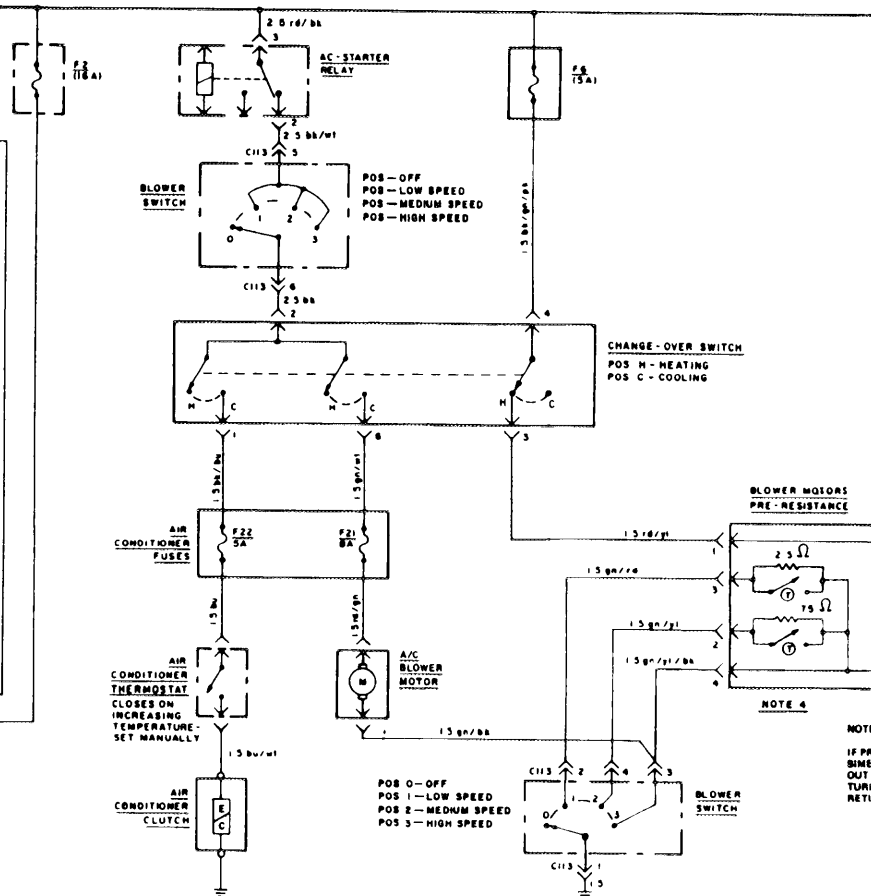
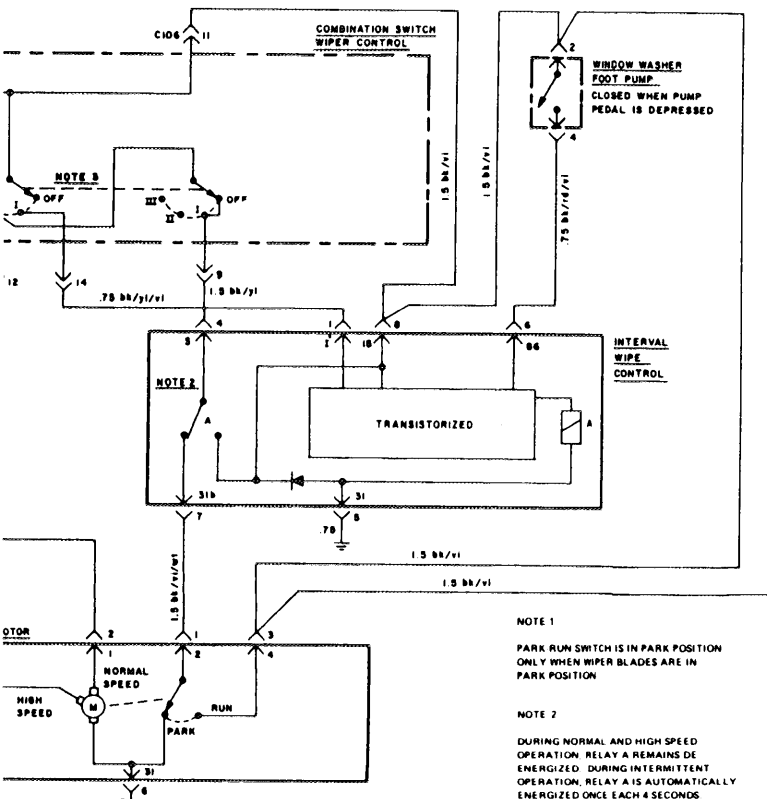
AIR CONDITIONING CONTROL	K6
AUXILIARY FAN	L10
CHARGE	B7
CIGAR LIGHTER	C6
CLOCK	F12
COOLANT TEMPERATURE GAUGE	F12
ENGINE EMISSION CONTROL	L13
FUEL GAUGE	F11
HEATED REAR WINDOW	R6
HEATER CONTROL	M6
HORNS	K11
IGNITION SYSTEM	B11
KICKDOWN	B24
LIGHT CIRCUITS	
AIR CONDITIONING THERMOSTAT	D16
ASH TRAY	F18
BACKUP	R8
BRAKE	S2
BRAKE SYSTEM WARNING	F11
FOG	D21
GLOVE BOX	R1
HEAD	D22/D23
INSTRUMENT CLUSTER	D16
INTERIOR	F7
LOW FUEL WARNING	F11
MARKER	D18/D20
PARKING	D21
STANDING	D21
TAIL	D21
TRUNK	G9
POWER ANTENNA	R8
RADIO	C4
SEAT BELT WARNING	D2
SLIDING ROOF	F1
START	B4/B8
TURN SIGNAL/FLASHER	B13
WINDOWS	F4
WINDSHIELD WIPER/WASHER	L3
POWER BUS DETAILS	L20
SPECIAL GROUNDING CIRCUITS	L22

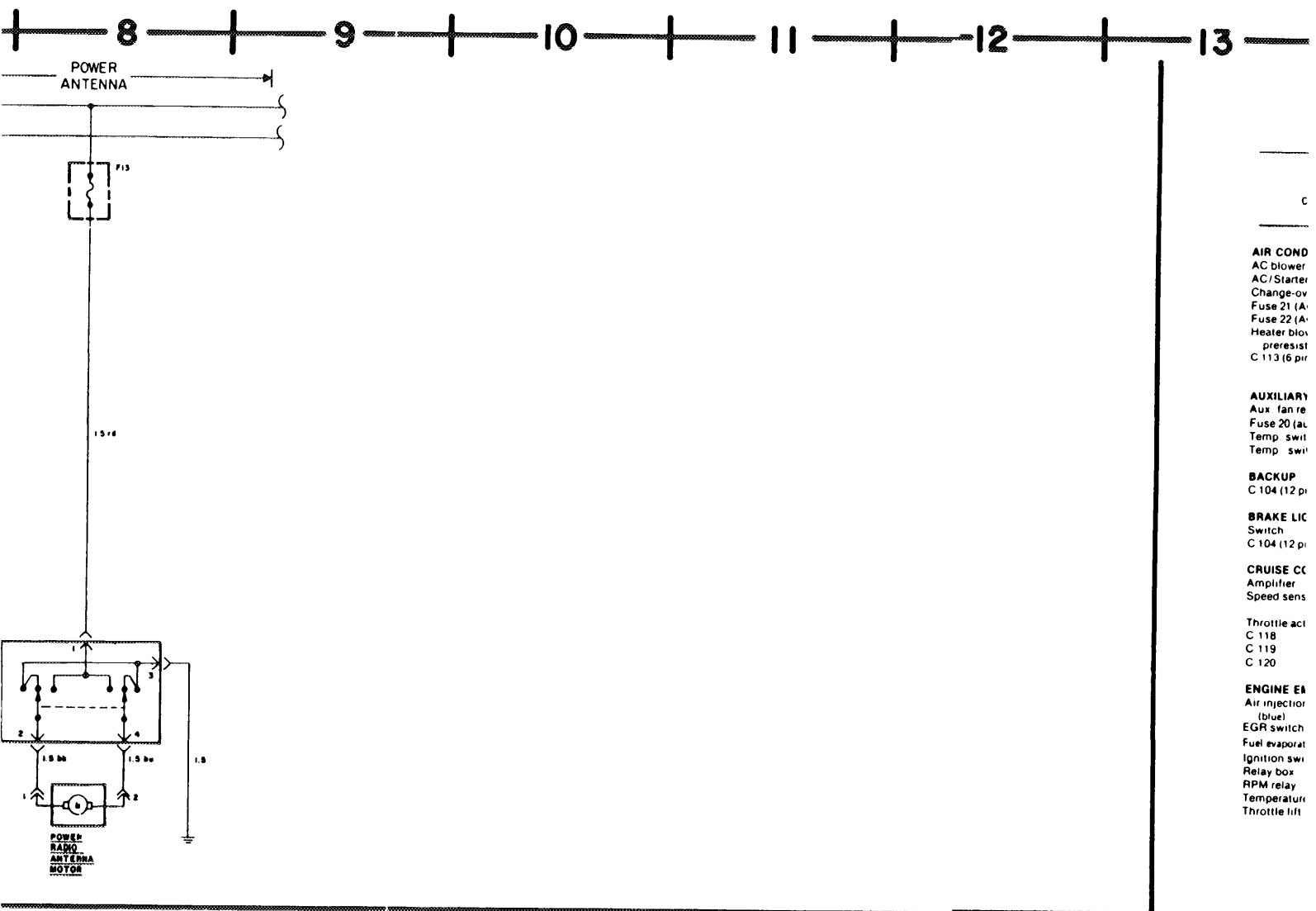
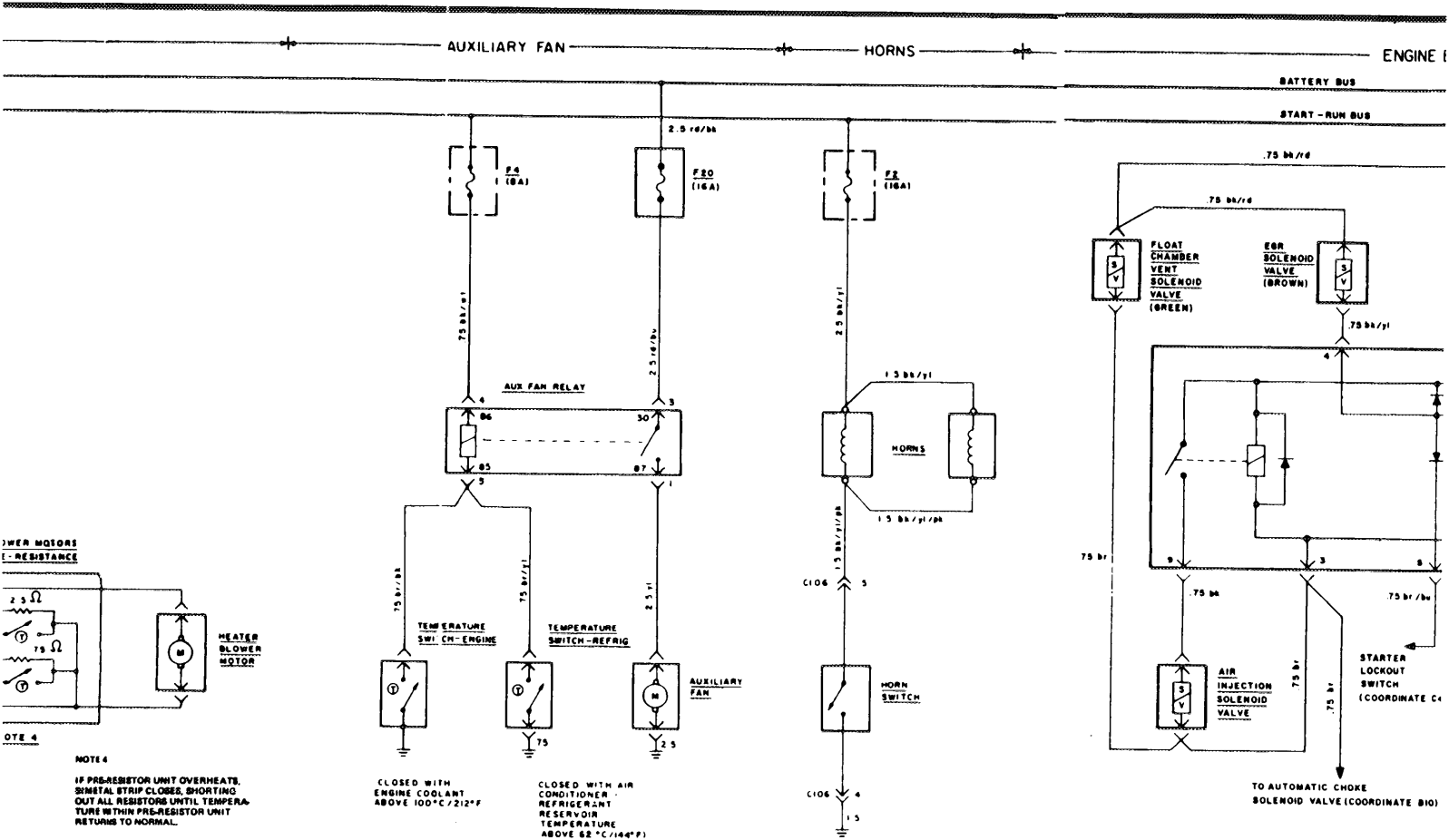


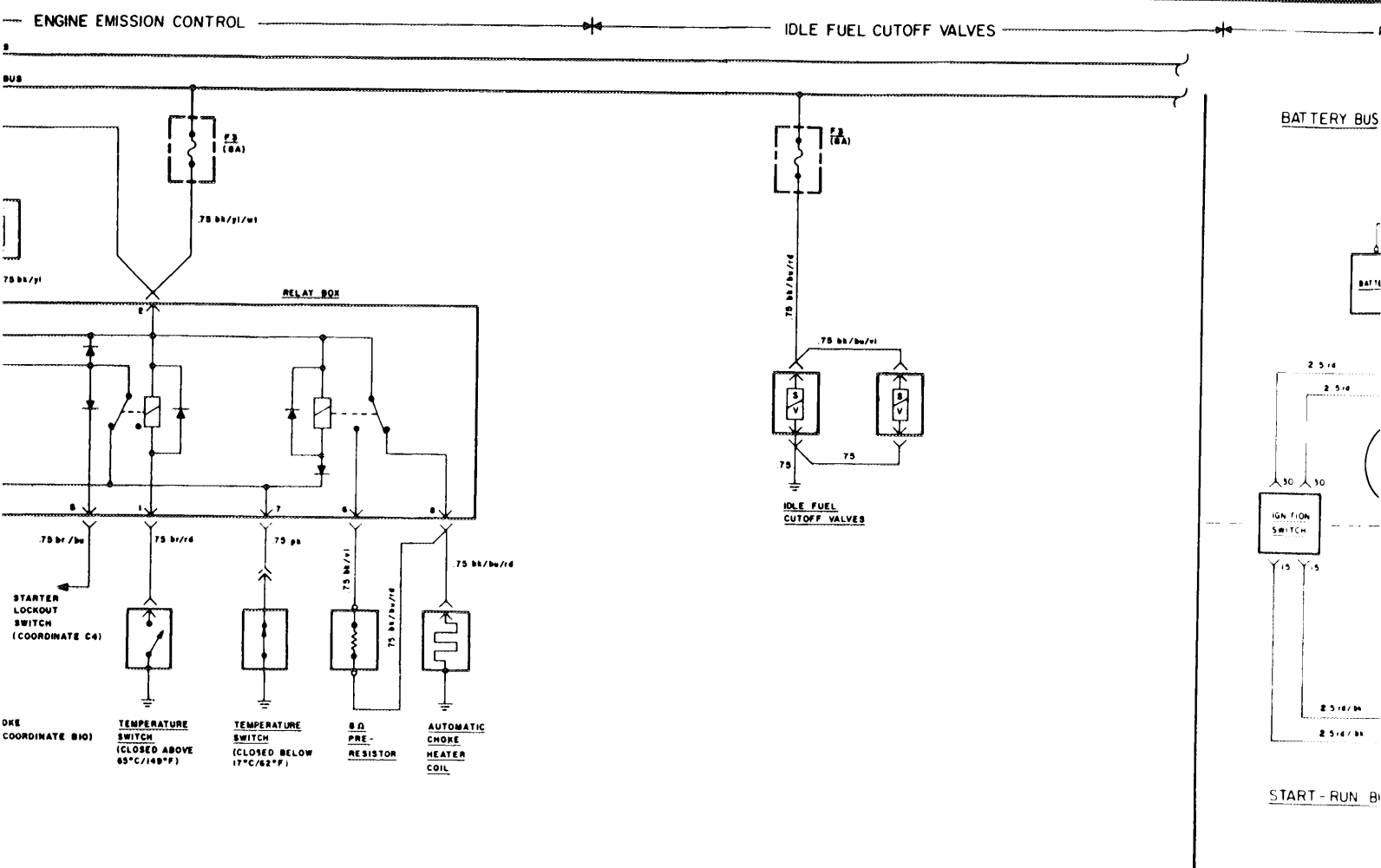
BATTERY BUS

START-RUN BUS

NOTE 3 WIPER ROCKER SWITCH POSITIONS
 I - NORMAL SPEED, INTERMITTENT OPERATION
 II - NORMAL SPEED
 III - HIGH SPEED







COMPONENT INDEX

SYSTEM/ COMPONENT	LOCATION ON VEHICLE	LOC FIG NO	TERM FIG NO	SYSTEM/ COMPONENT	LOCATION ON VEHICLE	LOC FIG NO	TERM FIG NO
AIR CONDITIONING/HEATING				HEATED REAR WINDOW			
AC blower motor	Center of console	1		Time delay relay	Under dash—driver's side	6	T14
AC/Starter relay, key 4	Right side, under dash		T7	Fuse 19 (window)	Left fender—aux. box	7	
Change-over switch	Console, left side	2		C 112	Behind rear seat—right side		
Fuse 21 (AC blower)	Right firewall—aux. box						
Fuse 22 (AC clutch)	Right firewall—aux. box						
Heater blower motor	Forward of AC blower	3		HORNS			
pre-resistor				C 106 (14 pins)	Under dash—driver's side	6	T5
C 113 (6 pins)	Mounted to heater control lever plate	4	T2	WINDSHIELD WIPER/WASHER			
AUXILIARY FAN				Interval wipe relay	Under dash—driver's side		T10
Aux. fan relay, key 6	Right side, under dash			Motor	Firewall—left side	3	
Fuse 20 (aux. fan)	Left fender—AUX. BOX			C 106 (14 pins)	Under dash—driver's side	6	T5
Temp. switch—engine (212 F)	Thermostat housing	11					
Temp. switch—refrigerant	Right firewall	5					
BACKUP							
C 104 (12 pins)	Under dash—driver's side		T4				
BRAKE LIGHTS							
Switch	Above brake pedal						
C 104 (12 pins)	Under dash—driver's side		T4				
CRUISE CONTROL							
Amplifier	Under dash, driver's side	6					
Speed sensor	Under dash, driver's side—speedometer cable	6					
Throttle actuator	Right fender, near hood spring						
C 118		6					
C 119		6					
C 120		6					
ENGINE EMISSION CONTROL							
Air injection switch-over valve (blue)	Right fender skirt						
EGR switch-over valve (brown)	Right fender skirt	11					
Fuel evaporation switch over valve	Right fender skirt	11					
Ignition switch-over valve	Right fender skirt	11					
Relay box	Left fender						
RPM relay	Left fender						
Temperature switch	Oil filter mount						
Throttle lift switch-over valve	Right fender skirt						

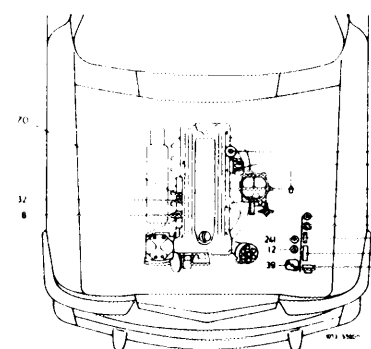
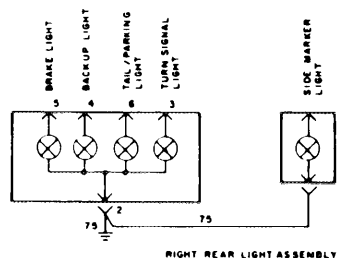
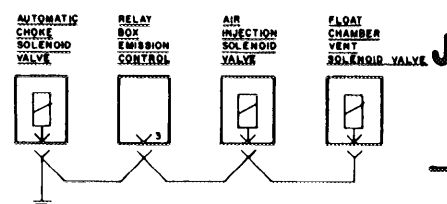


Fig 11

- 5 - Relay box
- 7 - 62 F (17 C) temperature switch
- 8 - 212 F (100 C) temperature switch
- 12 - Switch-over valve, EGR (brown)
- 31 - EGR valve
- 32 - 149 F (65 C) temperature switch
- 33 - Switch-over valve, air injection (blue)
- 37 - Switch-over valve, fuel evaporation control system (green)
- 39 - Charcoal canister
- 46 - Resistor, automatic choke cover
- 54 - Vacuum booster
- 60 - Venturi connection
- 70 - Coolant temp. sensor



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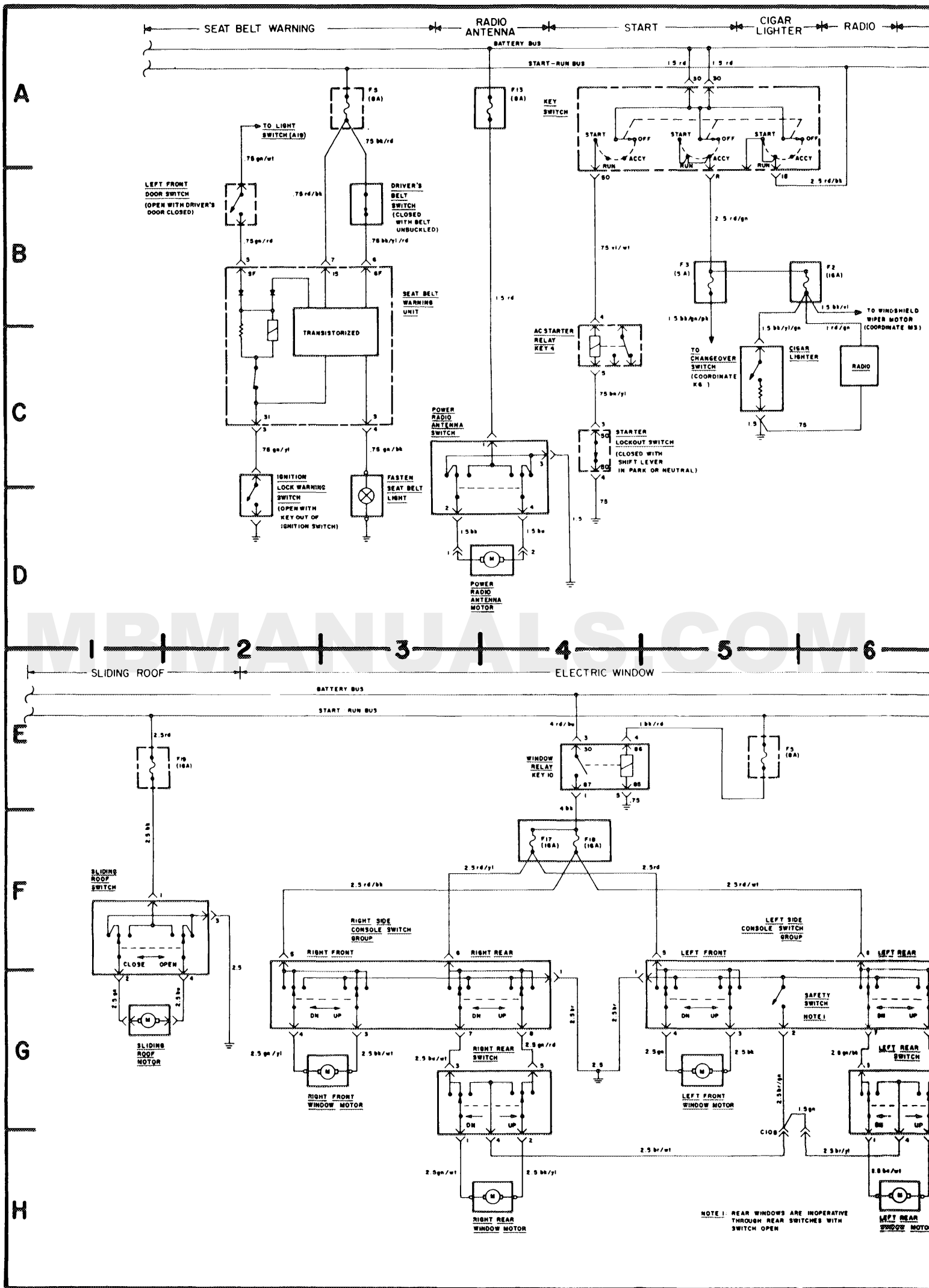
-19 ———+————-20 ———+————-21 ———+————-22 ———+————-23 ———+————-24

1976 280/280 C

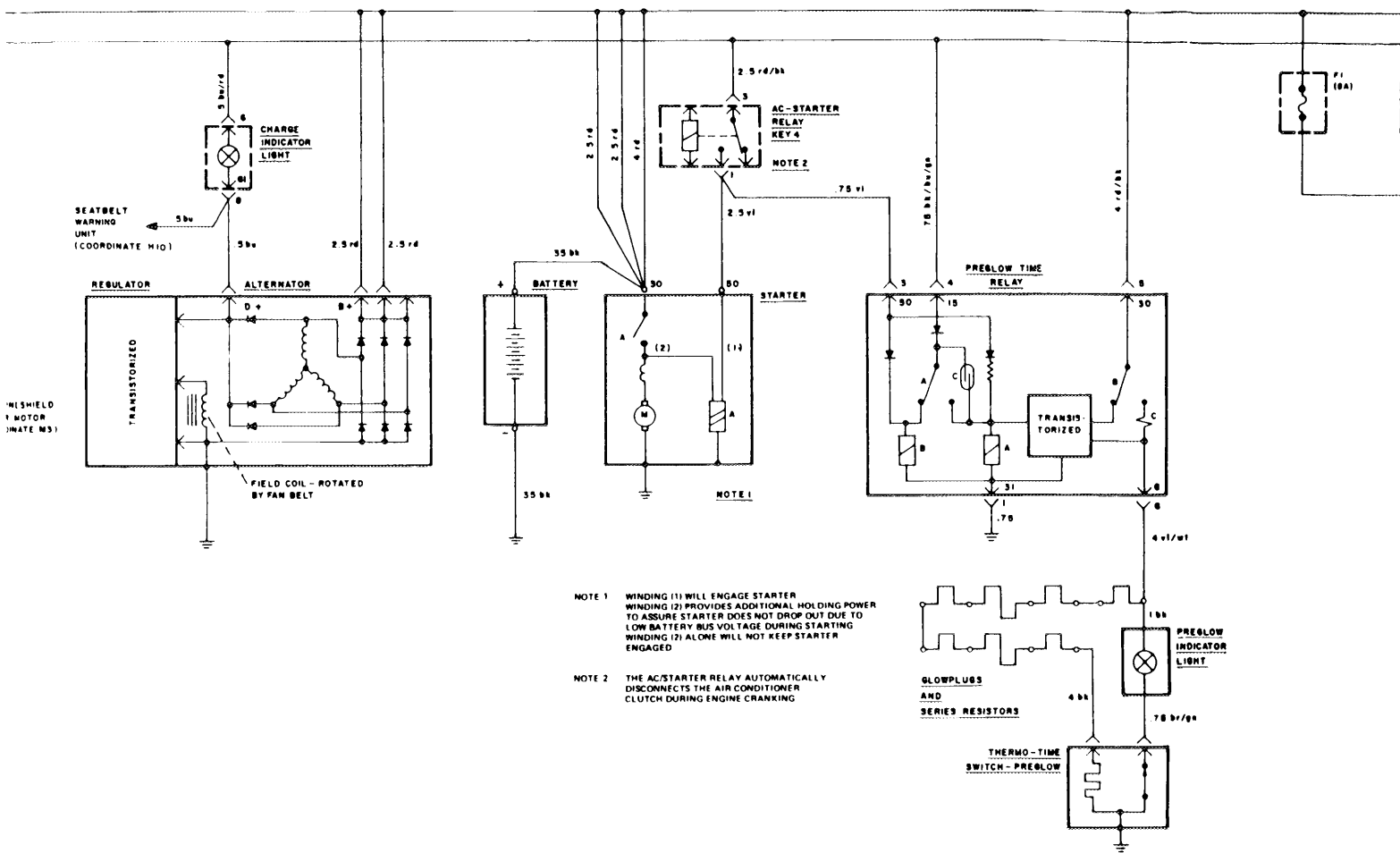
AIR CONDITIONING CONTROL	K6
AUXILIARY FAN	L10
CHARGE	B7
CIGAR LIGHTER	C6
CLOCK	F12
COOLANT TEMPERATURE GAUGE	F12
ENGINE EMISSION CONTROL	L13
FUEL GAUGE	F11
HEATED REAR WINDOW	R6
HEATER CONTROL	M6
HORNS	K11
IGNITION SYSTEM	B11
KICKDOWN	B24
LIGHT CIRCUITS	
AIR CONDITIONING THERMOSTAT	D18
ASH TRAY	F18
BACKUP	R6
BRAKE	S2
BRAKE SYSTEM WARNING	F11
FOG	D21
GLOVE BOX	R1
HEAD	D22/D23
INSTRUMENT CLUSTER	D18
INTERIOR	F7
LOW FUEL WARNING	F11
MARKER	D18/D20
PARKING	D21
STANDING	D21
TAIL	D21
TRUNK	G9
POWER ANTENNA	R8
RADIO	C4
SEAT BELT WARNING	D2
SLIDING ROOF	F1
START	B4/B9
TURN SIGNAL/FLASHER	B13
WINDOWS	F4
WINDSHIELD WIPER/WASHER	L3
POWER BUS DETAILS	L20
SPECIAL GROUNDING CIRCUITS	L22

- Fuse 1 (8 amps)**
 - Clock
 - Flasher
 - Interior lights
 - Key Buzzer
 - Trunk light
- Fuse 2 (16 amps)**
 - Cigar lighter
 - Horns
 - Windshield wiper / washer
- Fuse 3 (8 amps)**
 - Backup lights
 - Brake lights
 - Cruise control
 - Engine emission control
 - Glove box light
 - Idle fuel cutoff valves
 - Instruments
 - Seat belt warning
 - Window control
- Fuse 4 (8 amps)**
 - Auxiliary fan
 - Kickdown solenoid
- Fuse 6 (5 amps)**
 - A/C control light
 - Heater blower motor
- Fuse 7 (8 amps)**
 - A/C thermostat illumination
 - Flasher illumination
 - Front standing parking (right)
 - Instrument cluster lights
 - Left and right markers
 - License plate light
 - Tail light (right)

- | | |
|--|--|
| Fuse 8 (8 amps)
Front standing parking
(left)
Left tail light | Fuse 20 (16 amps)
Auxiliary fan motor |
| Fuse 9 (8 amps)
High beam indicator
Right head lights, high
beam | Fuse 21 (8 amps)
A/C Blower motor |
| Fuse 10 (8 amps)
Left headlight, high
beam | Fuse 22 (5 amps)
Air Conditioner
clutch |
| Fuse 11 (8 amps)
Fog lights
Right head light, low
beam | |
| Fuse 12 (8 amps)
Left head light, low
beam | |
| Fuse 13 (8 amps)
Radio antenn | |
| Fuse 14 | |
| Fuse 15 (16 amps)
Heated rear window | |
| Fuse 16
Not used | |
| Fuse 17 (16 amps)
Left front window
Right rear window | |
| Fuse 18 (16 amps)
Left rear window
Right rear window | |
| Fuse 19 (16 amps)
Sliding roof | |

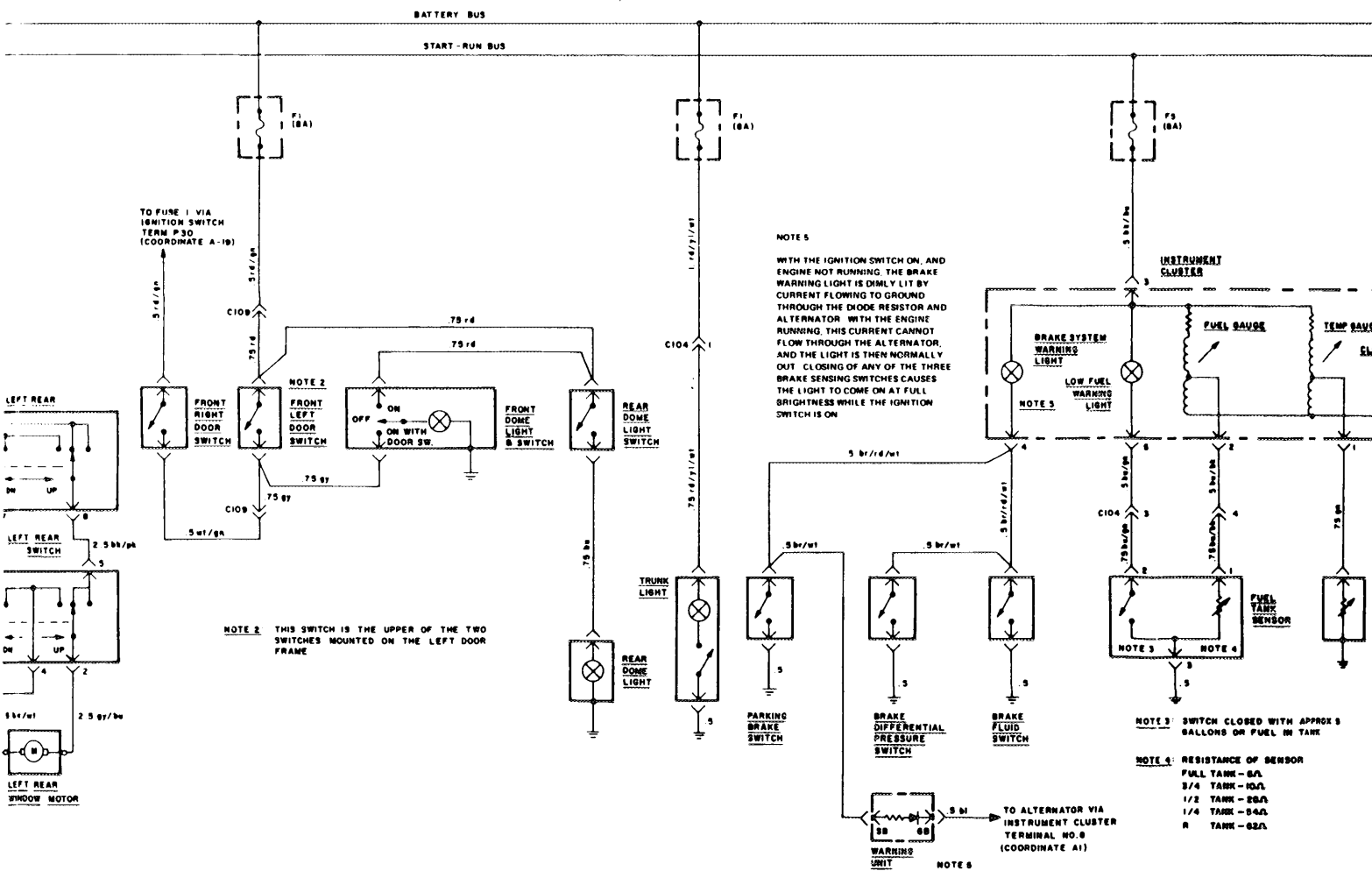


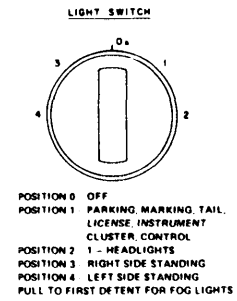
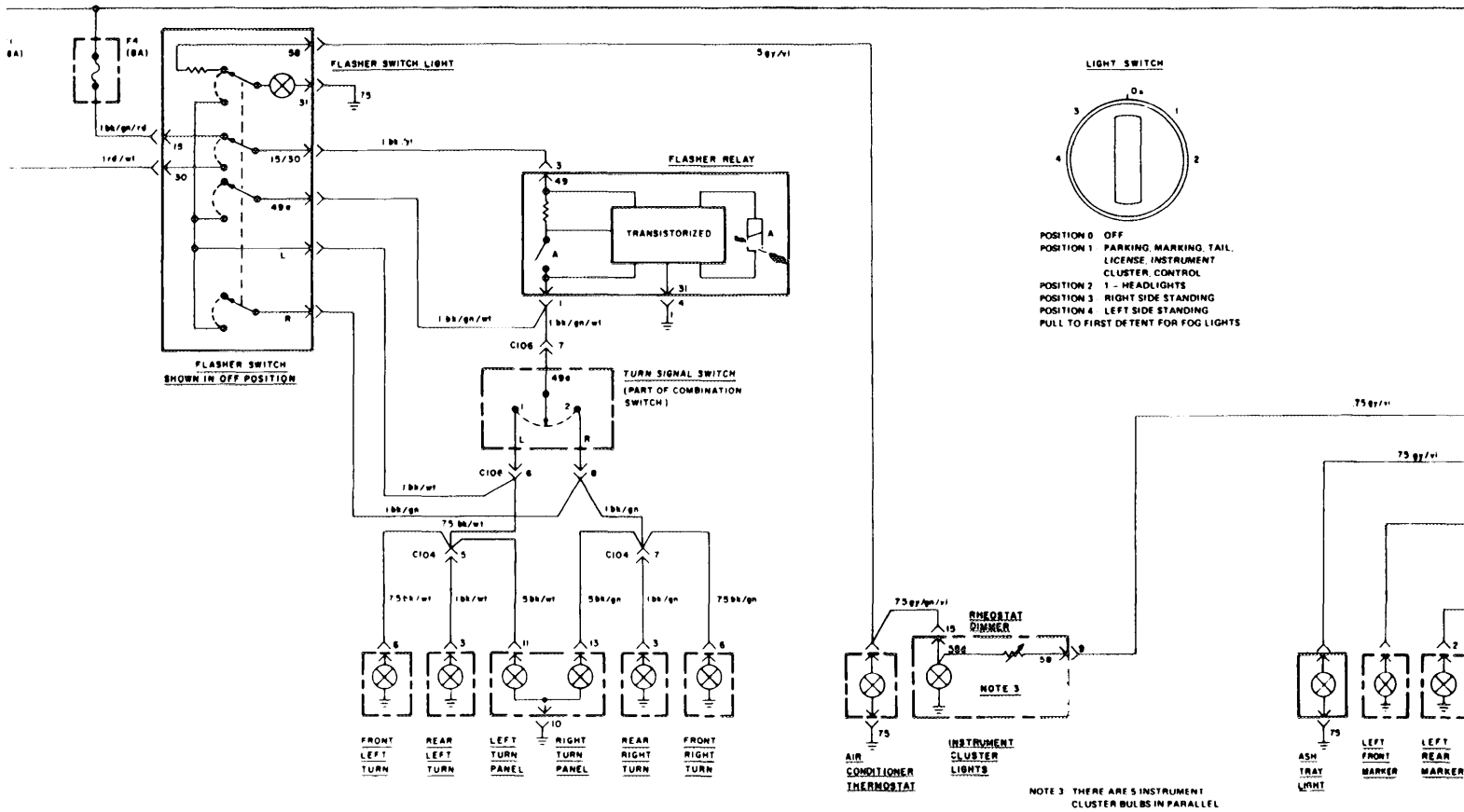
CHARGE START GLOW PLUG CIRCUIT



7 8 9 10 11 12

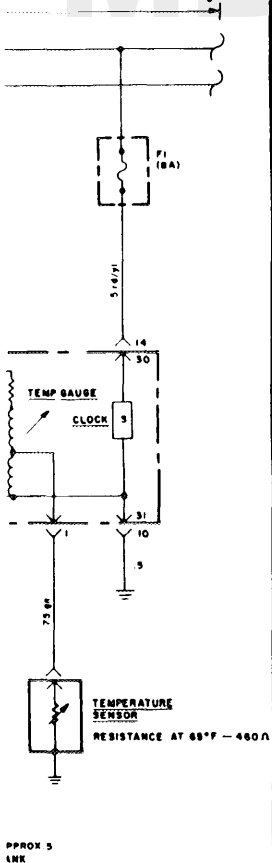
INTERIOR LIGHTS TRUNK LIGHT INSTRUMENT CLUSTER



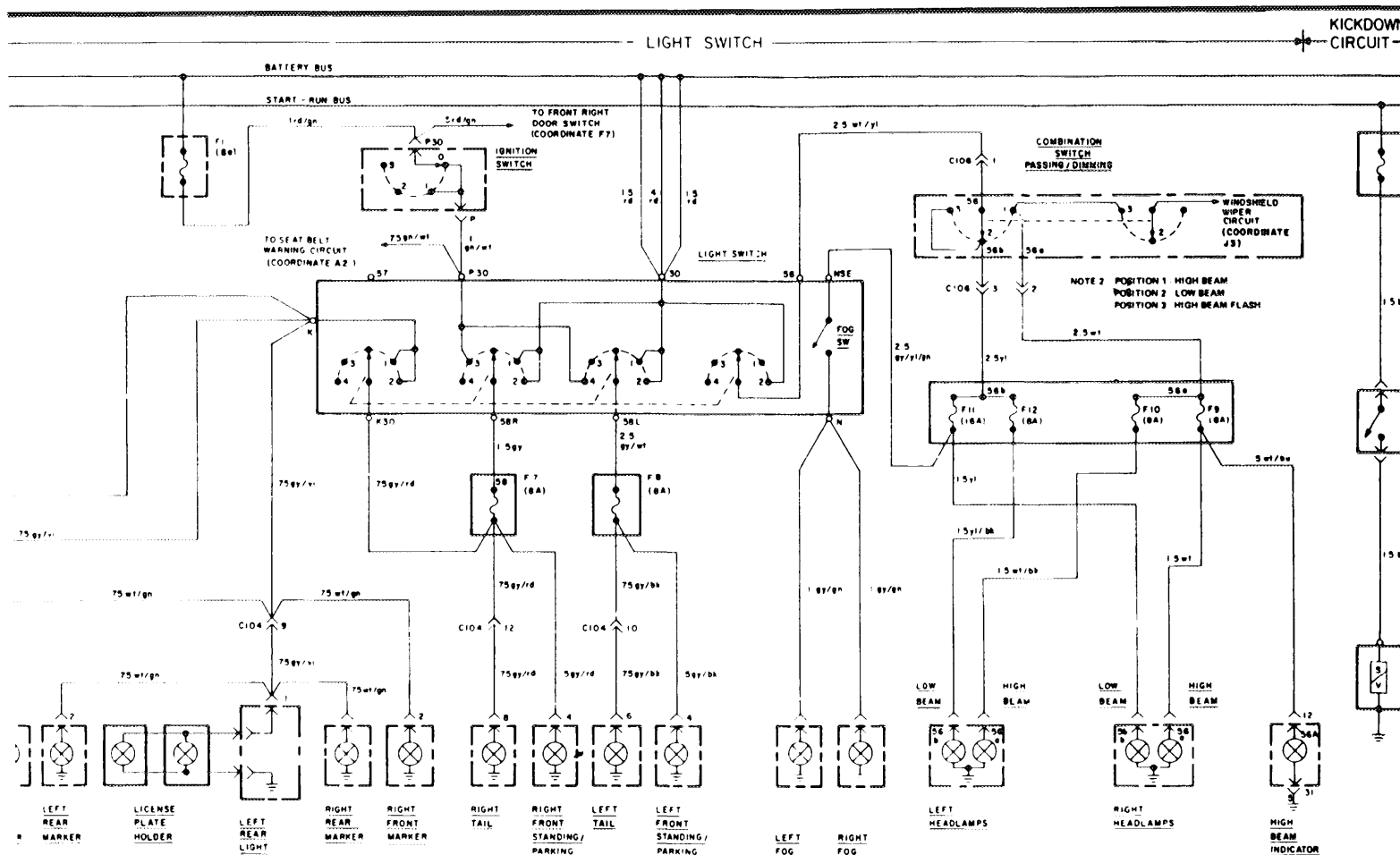


COMPONENT INDEX

SYSTEM / COMPONENT	LOCATION ON VEHICLE	LOC. FIG. NO.	TERM. FIG. NO.	SYSTEM / COMPONENT	LOCATION ON VEHICLE	LOC. FIG. NO.	TERM. FIG. NO.
CHARGE Regulator C 105	Alternator Firewall			TRUNK LIGHT C 104 (12 pins)	Under dash, driver's side		T4
ELECTRIC WINDOWS Front seat switch Window relay — key 10 C 108	Front seat console Right firewall under fuse bracket Console		T8 T7	TURN SIGNAL AND FLASHER Flasher relay C 104 (12 pins) C 106 (13 pins)	Under dash, driver's side Under dash, driver's side Under dash, driver's side	6 T4 6	T6 T4 T5
GLOW PLUG CIRCUIT Preglow indicator light Preglow time relay Thermo-time switch (preglow) AC-Starter Relay Key 4	Instrument panel Under dash, left side Engine block, left side Right firewall, under fuse bracket	10 6	T7				
INSTRUMENT CLUSTER Brake fluid switch Coolant temp. sensor Fuel tank sensor Parking brake switch C 104 (12 pins)	Reservoir Left front cylinder head Trunk Top parking brake Under dash, driver's side	3 9	T4				
INTERIOR LIGHTS C 109	Console						
KICKDOWN CIRCUIT Switch	Below accelerator pedal	8					
LIGHT SWITCH C 104 (12 pins) C 106 (14 pins)	Under dash, driver's side Under dash, driver's side	6 6	T4 T5				
SEAT BELT WARNING Ignition warning switch Warning buzzer	Ignition switch Under dash, driver's side	6	T12				
SLIDING ROOF Motor	Behind spare tire						
START AC/Starter relay, key 4	Right firewall under fuse bracket		T7				



1 - Main h
 2 - Heater
 3 - Brake
 4 - Wiper



LOCATION FIGURES



Fig. 1
1 - A/C Blower motor

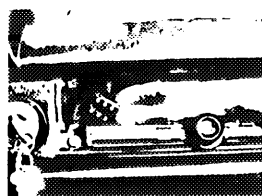


Fig. 4
1 - C113

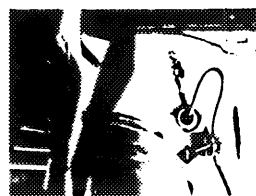


Fig. 7
1 - C112

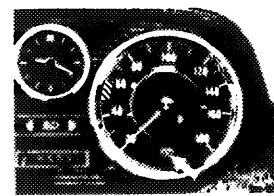


Fig. 10



Fig. 2
1 - Change over switch for blower motors



Fig. 5
1 - Temperature switch, refrigerant



Fig. 8
1 - Kickdown switch



Fig. 3
1 - Main fuse box
2 - Heater blower pre resistors
3 - Brake fluid switches
4 - Wiper motor



Fig. 6
1 - Door and seat belt warning buzzer
2 - Turn signal flasher relay
3 - C106
4 - Cruise control amplifier
5 - Rear window heater delay relay
6 - Speed sensor
7 - Preglow time relay

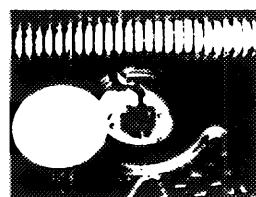
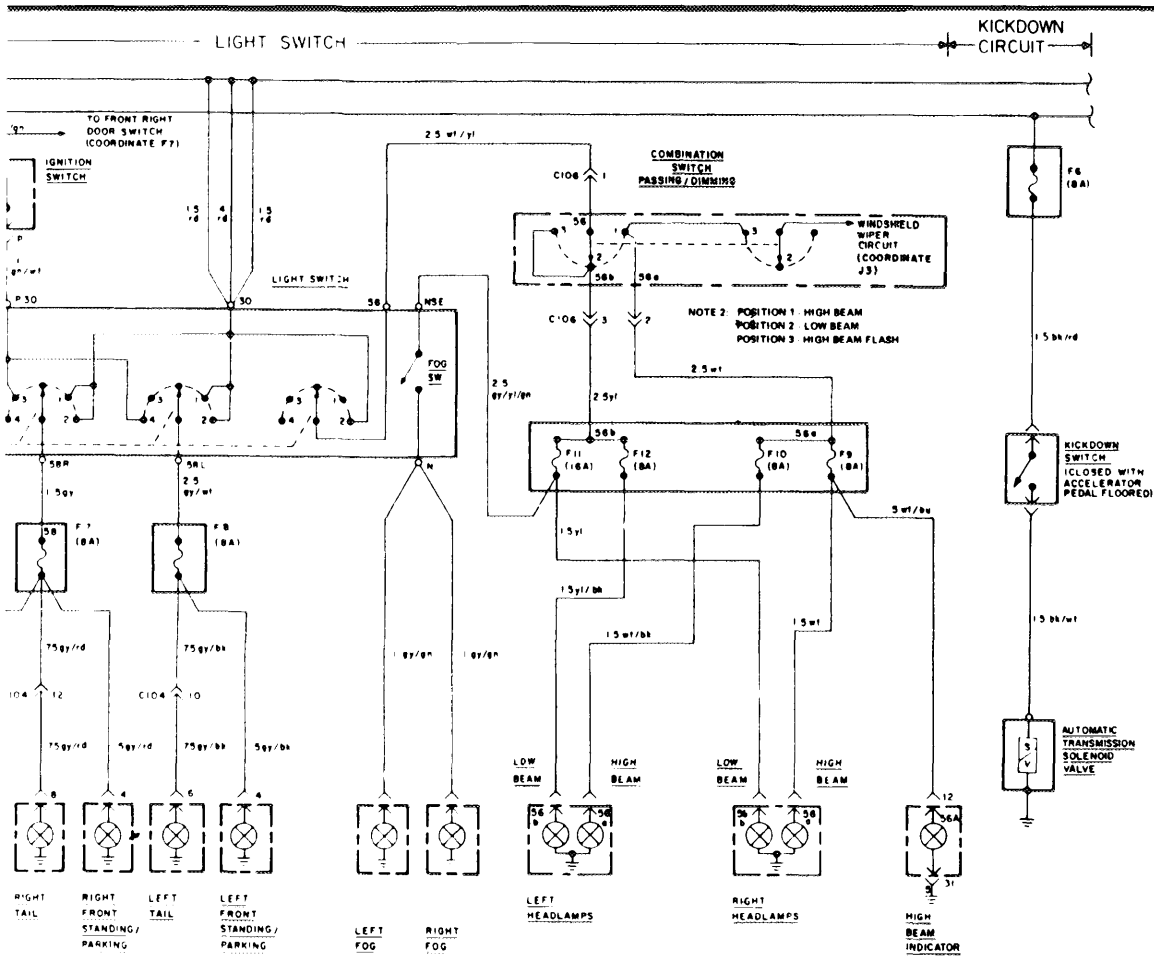


Fig. 9
Fuel tank sensor

AIR COND
AUXILIARY
CHARGE
CIGAR LIGHT
CLOCK
COOLANT
CRUISE CONTROL
FUEL GAUGE
HEATED SEAT
HEATER
HORNS
KICKDOWN
LIGHT CIRCUIT
AIR COND
ASH TRAY
BACKUP
BRAKE
BRAKE
FOG
GLOVE
HEAD
INSTRUMENT CLUSTER
INTERIOR
LOW FUEL
MARKER
PARKING
STAND
TAIL
TRUNK
POWER A
PREGLOW
RADIO
SEAT BELT
SLIDING
START
TURN SIGNAL
WINDOW
WINDSHIELD
POWER B
SPECIAL



A

B

C

D

LOCATION FIGURES

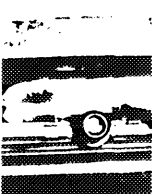


Fig 4

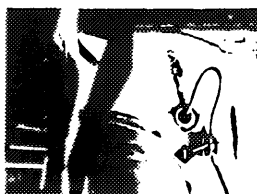


Fig 7

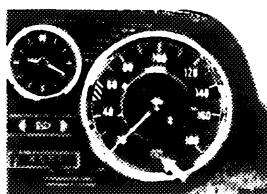


Fig 10



Fig 5
switch, refrigerant



Fig 8
1 - Kickdown switch



Fig 6
seat belt warning buzzer
relay

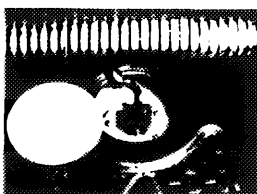
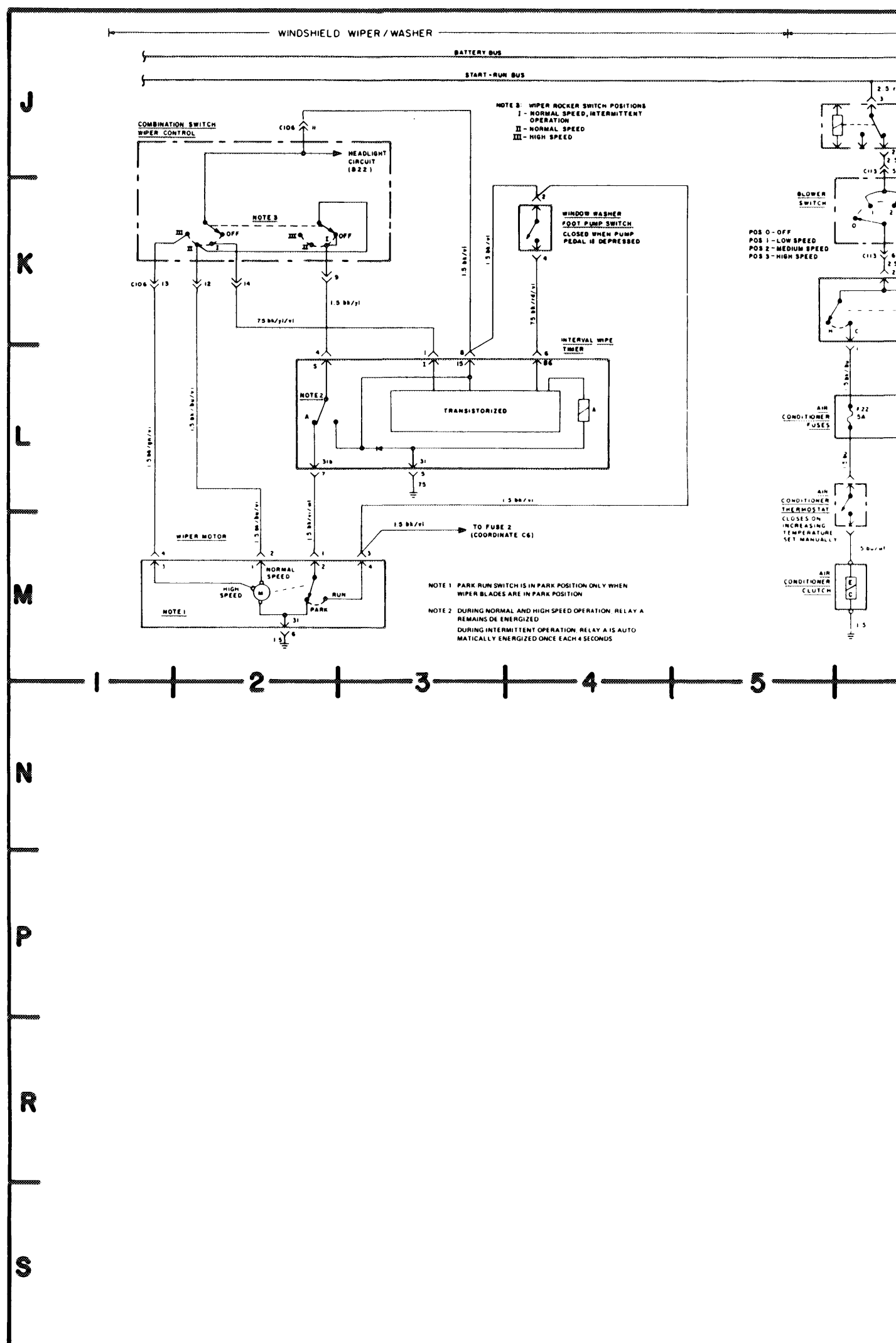


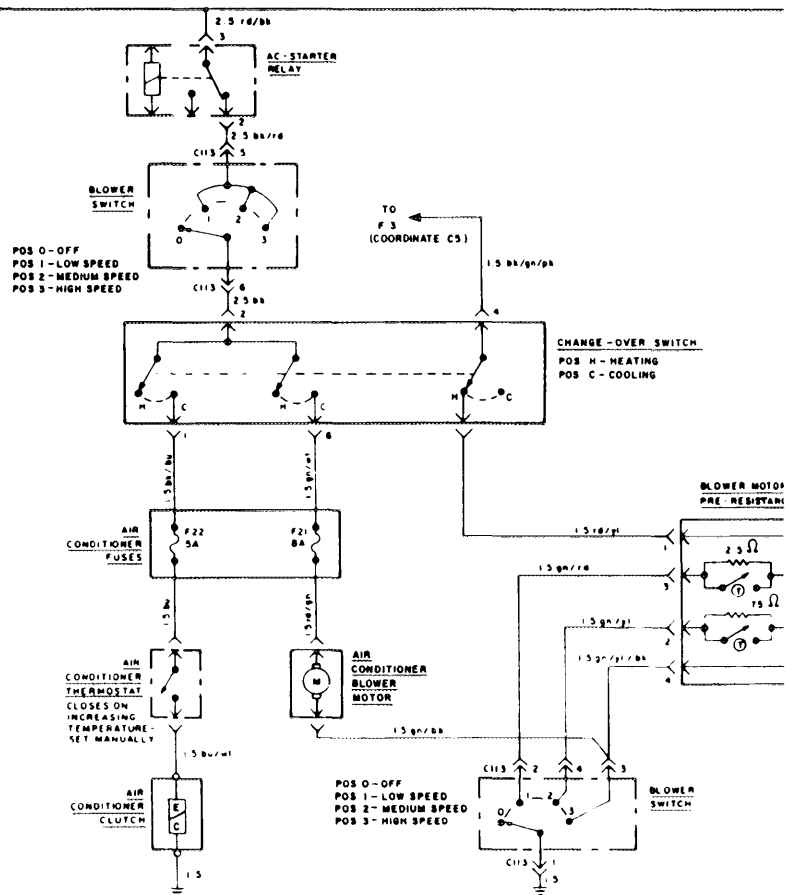
Fig 9
Fuel tank sensor

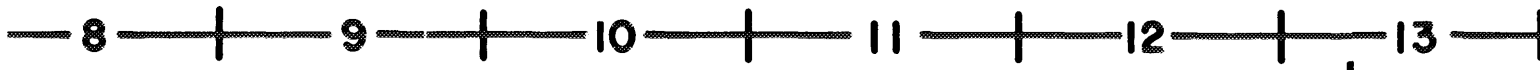
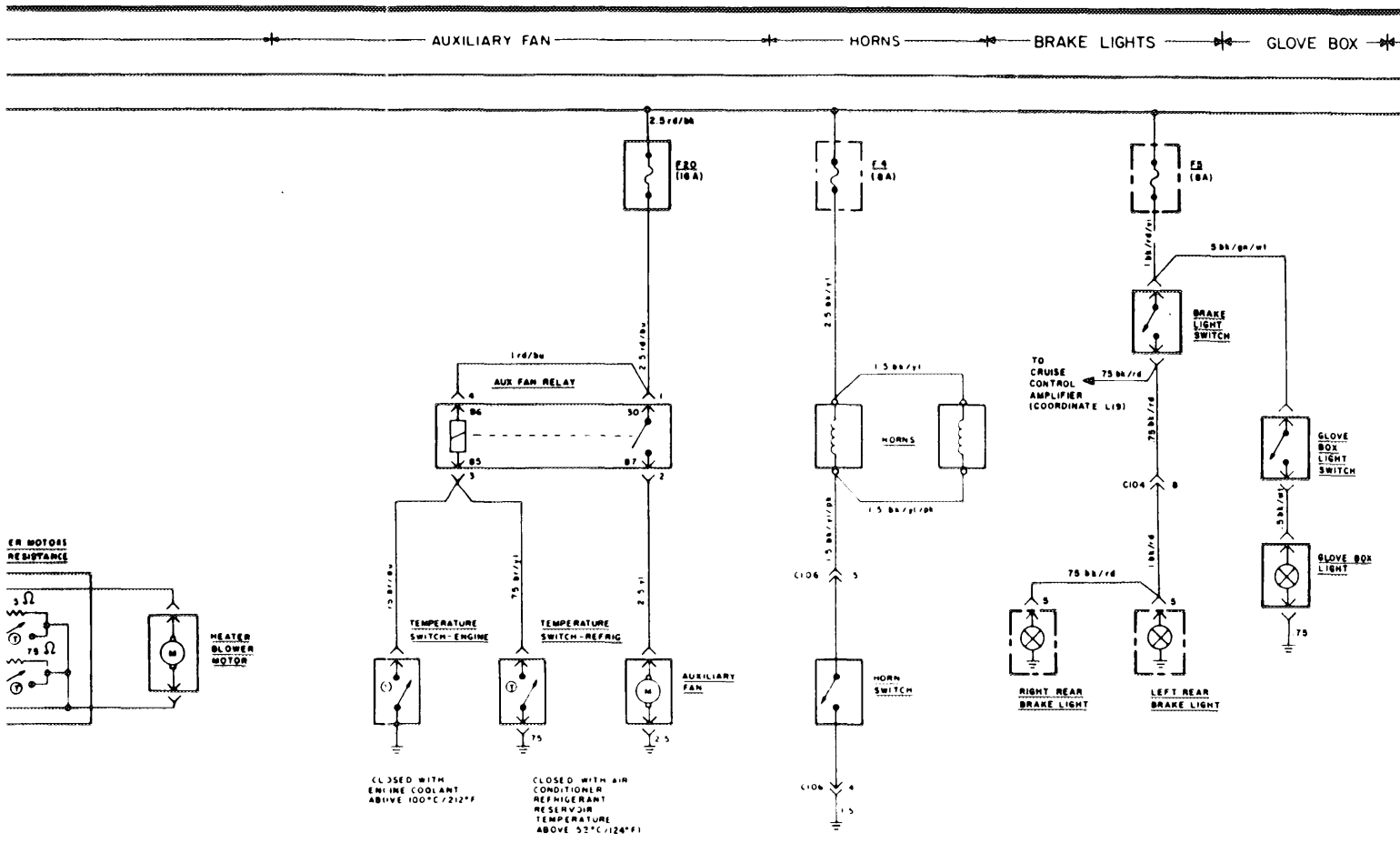
1976 300 D

AIR CONDITIONING CONTROL	K5
AUXILIARY FAN	K10
CHARGE	B8
CIGAR LIGHTER	C5
CLOCK	F12
COOLANT TEMPERATURE GAUGE	F12
CRUISE CONTROL	L18
FUEL GAUGE	F11
HEATED REAR WINDOW	L15
HEATER CONTROL	M7
HORNS	K11
KICKDOWN	B23
LIGHT CIRCUITS	
AIR CONDITIONING THERMOSTAT	D15
ASH TRAY	D17
BACKUP	L16
BRAKE	L12
BRAKE SYSTEM WARNING	F11
FOG	D21
GLOVE BOX	L13
HEAD	D22
INSTRUMENT CLUSTER	D18
INTERIOR	F8
LOW FUEL WARNING	F11
MARKER	D17/D19
PARKING	D20
STANDING	D20
TAIL	D19
TRUNK	G9
POWER ANTENNA	C7
PREGLOW	C11
RADIO	C8
SEAT BELT WARNING	B3
SLIDING ROOF	F1
START	B4/B8
TURN SIGNAL/FLASHER	B13/B14
WINDOWS	F4
WINDSHIELD WIPER/WASHER	K3
POWER BUS DETAILS	K21
SPECIAL GROUNDING CIRCUITS	K23

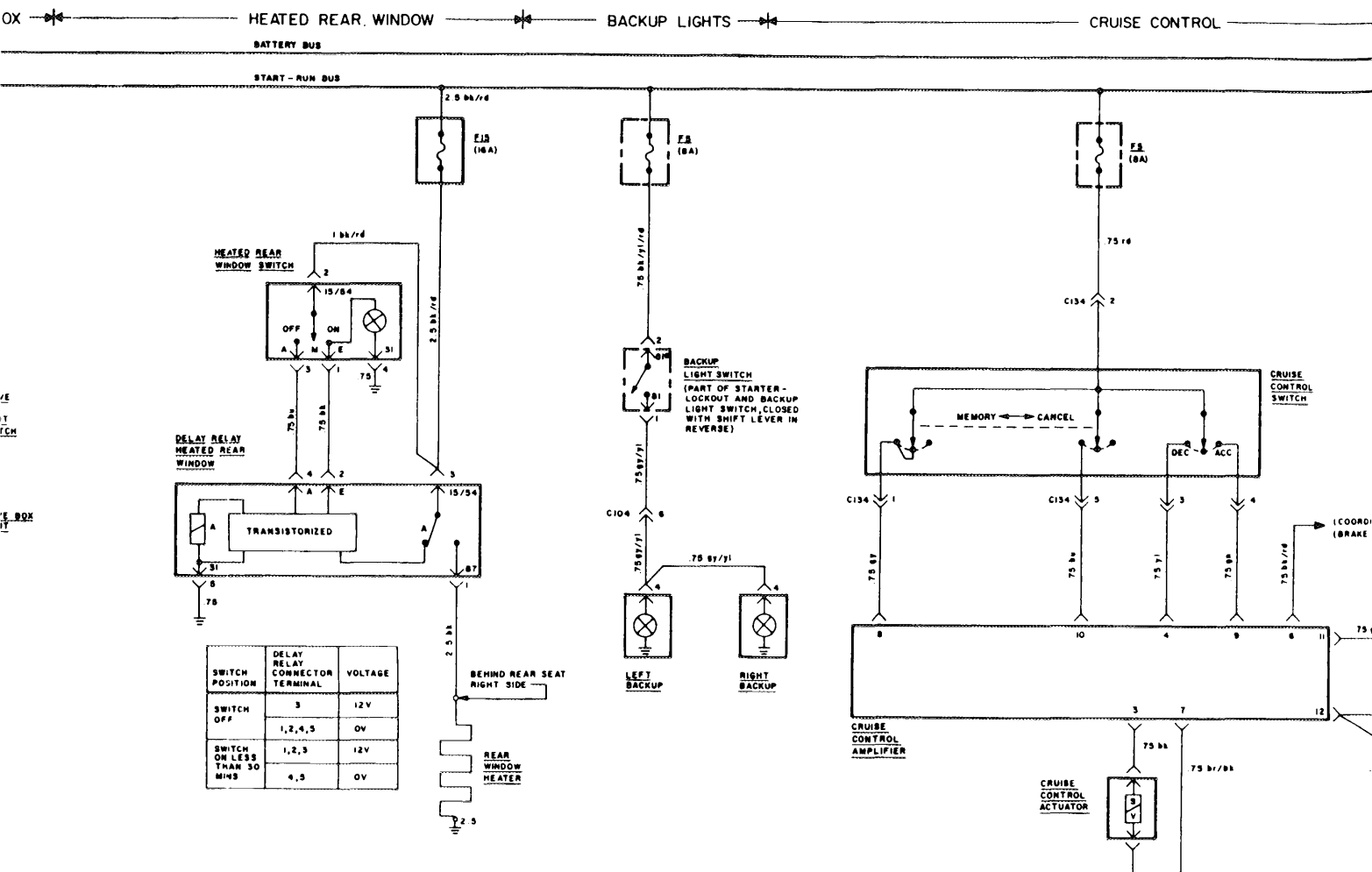


START - RUN BUS



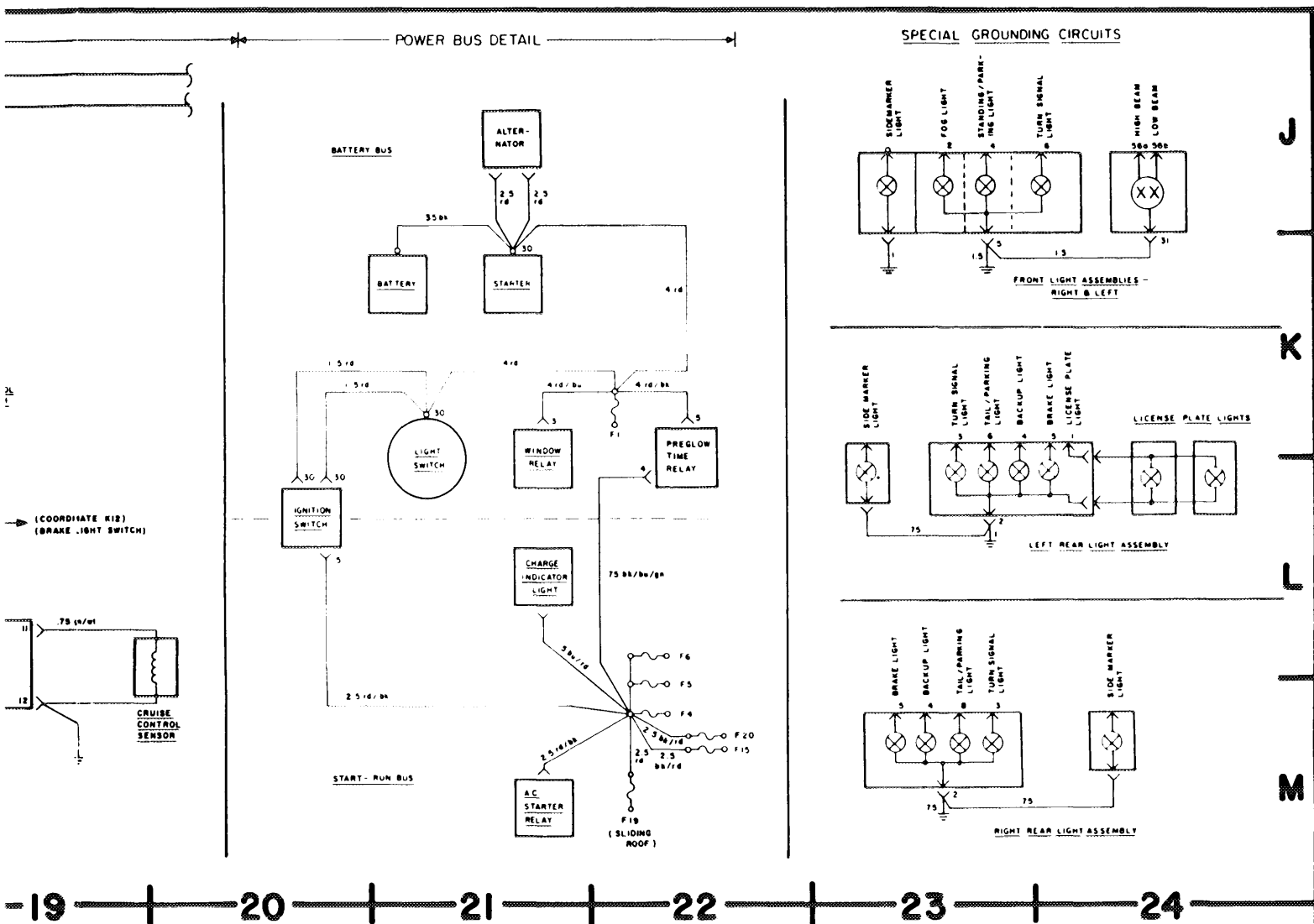


- 5Y
COM
- AIR CONDITN
AC Blower mtr
AC/Starter re
- Change-over:
Fuse 21 (AC t)
Fuse 22 (AC c)
Heater blower
preresistor
C 113 (6 pins)
- AUXILIARY F
Aux fan relay
Fuse 20 (aux)
Temp switch
Temp switch
- BACKUP
C 104 (12 pins)
- BRAKE LIGH
Switch
C 104 (12 pins)
- CRUISE CONT
Amplifier
Speed sensor
Throttle actuat
- HEATED REA
Time delay rel
Fuse 19 (wind)
C 112
- HORNS
C 106 (14 pins)



COMPONENT INDEX

SYSTEM/ COMPONENT	LOCATION ON VEHICLE	LOC FIG NO	TERM FIG NO	SYSTEM/ COMPONENT	LOCATION ON VEHICLE	LOC FIG NO	TERM FIG NO
CLIMATE CONTROL/HEATING				WINDSHIELD WIPER/WASHER			
Blower motor	Center of console	1	T7	Interval wipe timer	Under dash — driver's side	3	T10
Starter relay, key 4	Right firewall under fuse bracket	2		Motor	Firewall — left side	6	T5
Change-over switch	Console, left side	3			Under dash — driver's side		
Use 21 (AC blower)	Right firewall — aux. box	4	T2				
Use 22 (AC clutch)	Forward of AC blower	5					
Water blower motor							
Pre-resistor							
113 (6 pins)	Mounted to heater control lever plate						
AUXILIARY FAN							
Aux. fan relay, key 6	Below radio fuse						
Use 20 (aux. fan)	Left fender — aux. box						
Temp. switch — engine	Thermostat housing						
Temp. switch — refrigerant	Right firewall						
BACKUP							
104 (12 pins)	Under dash — driver's side		T4				
BRAKE LIGHTS							
Switch	Above brake pedal						
104 (12 pins)	Under dash — driver's side		T4				
CRUISE CONTROL							
Amplifier	Under dash, driver's side	6					
Speed sensor	Under dash, driver's side	6					
Control actuator	Right fender, near hood spring						
HEATED REAR WINDOW							
Delay relay	Under dash — driver's side	6	T14				
Use 19 (window)	Left fender — aux. box	7					
12	Behind rear seat — right side						
WIPERS							
106 (14 pins)	Under dash — driver's side	6	T5				



LOCATION FIGURES

FUSE DATA

Fuse 1 (8 amps) Clock Flasher Interior lights Key Buzzer Trunk light	Fuse 8 (8 amps) Front standing parking (left) Left tail light	Fuse 20 (16 amps) Auxiliary fan motor Auxiliary fan relay
Fuse 2 (16 amps) Cigar lighter Windshield wiper/washer Radio	Fuse 9 (8 amps) High beam indicator Right head lights, high beam	Fuse 21 (8 amps) A/C Blower motor
Fuse 3 (5 amps) Heater blower motor A/C control light	Fuse 10 (8 amps) Left headlight, high beam	Fuse 22 (5 amps) Air conditioner clutch
Fuse 4 (8 amps) Turn signal Horns	Fuse 11 (16 amps) Fog lights Right head light, low beam	
Fuse 5 (8 amps) Backup lights Brake lights Glove box light Instrument cluster Seat belt warning Window control Cruise control	Fuse 12 (8 amps) Left head light, low beam	
Fuse 6 (8 amps) Kickdown circuit	Fuse 13 (8 amps) Not used	
Fuse 7 (8 amps) A/C thermostat illumination Flasher illumination Front standing/parking (right) Instrument cluster lights Left and right marker lights License plate light Tail light (right) Ash tray light	Fuse 14 (8 amps) Not used	
	Fuse 15 (16 amps) Heated rear window	
	Fuse 16 Not used	
	Fuse 17 (16 amps) Left front window Right rear window	
	Fuse 18 (16 amps) Left rear window Right front window	
	Fuse 19 (16 amps) Sliding roof	

1976 300 D

AIR CONDITIONING CONTROL	K5
AUXILIARY FAN	K10
CHARGE	B8
CIGAR LIGHTER	C5
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COOLANT TEMPERATURE GAUGE	F12
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BRAKE SYSTEM WARNING	F11
FOG	D21
GLOVE BOX	L13
HEAD	D22
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INTERIOR	F8
LOW FUEL WARNING	F11
MARKER	D17/D19
PARKING	D20
STANDING	D20
TAIL	D19
TRUNK	G9
POWER ANTENNA	C7
PREGLOW	C11
RADIO	C6
SEAT BELT WARNING	B3
SLIDING ROOF	F1
START	B4/B9
TURN SIGNAL/FLASHER	B13/B14
WINDOWS	F4
WINDSHIELD WIPER/WASHER	K3
POWER BUS DETAILS	
SPECIAL GROUNDING CIRCUITS	K21