

# ELECTRICAL SYSTEM

## SECTION **EL**

When you read wiring diagrams:

- Read GI section, "HOW TO READ WIRING DIAGRAMS".

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Front Door Harness ..... 52	Removal..... Foldout page	
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## WIRING DIAGRAM REFERENCE CHART

ECCS .....	EF & EC SECTION	
A/T CONTROL SYSTEM .....	AT SECTION	LC
REAR WHEEL ANTI-LOCK BRAKE SYSTEM .....	BR SECTION	
ADJUSTABLE SHOCK ABSORBER .....	FA SECTION	
POWER WINDOW .....	BF SECTION	EF &
POWER DOOR LOCK .....	BF SECTION	EC
BACK DOOR WINDOW OPENER .....	BF SECTION	
DOOR MIRROR .....	BF SECTION	FE
HEATER AND AIR CONDITIONER .....	HA SECTION	

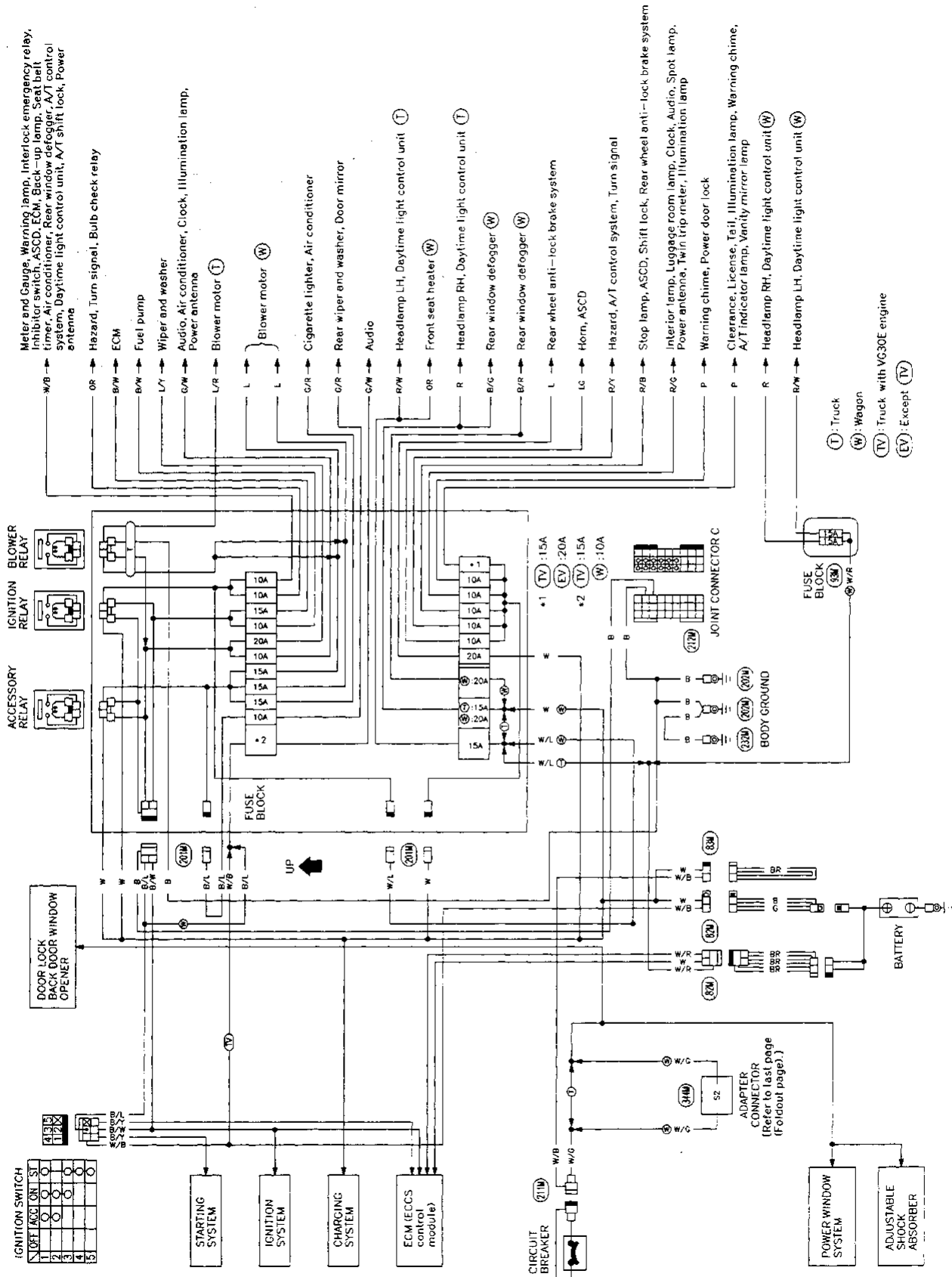
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# POWER SUPPLY ROUTING

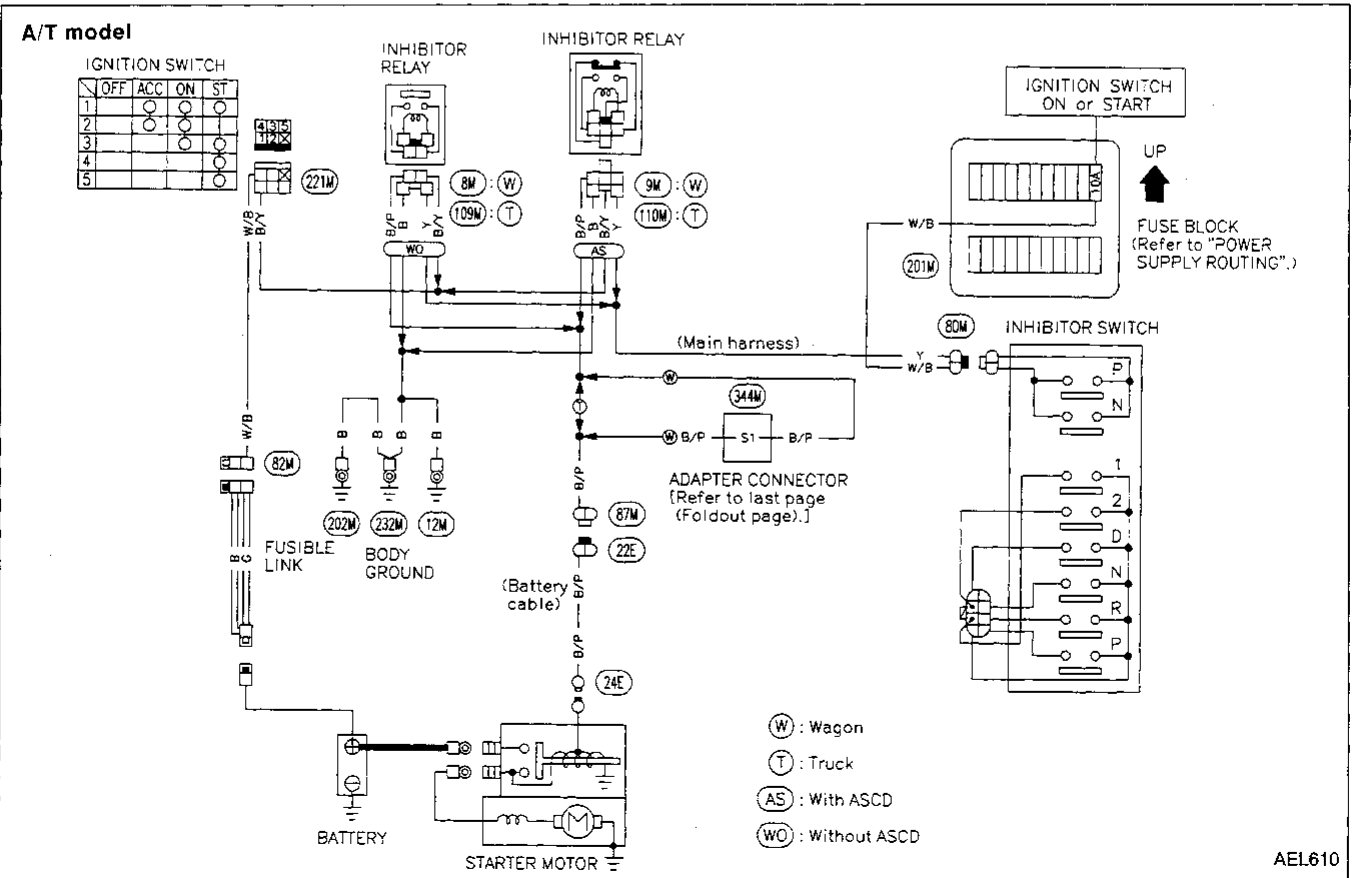
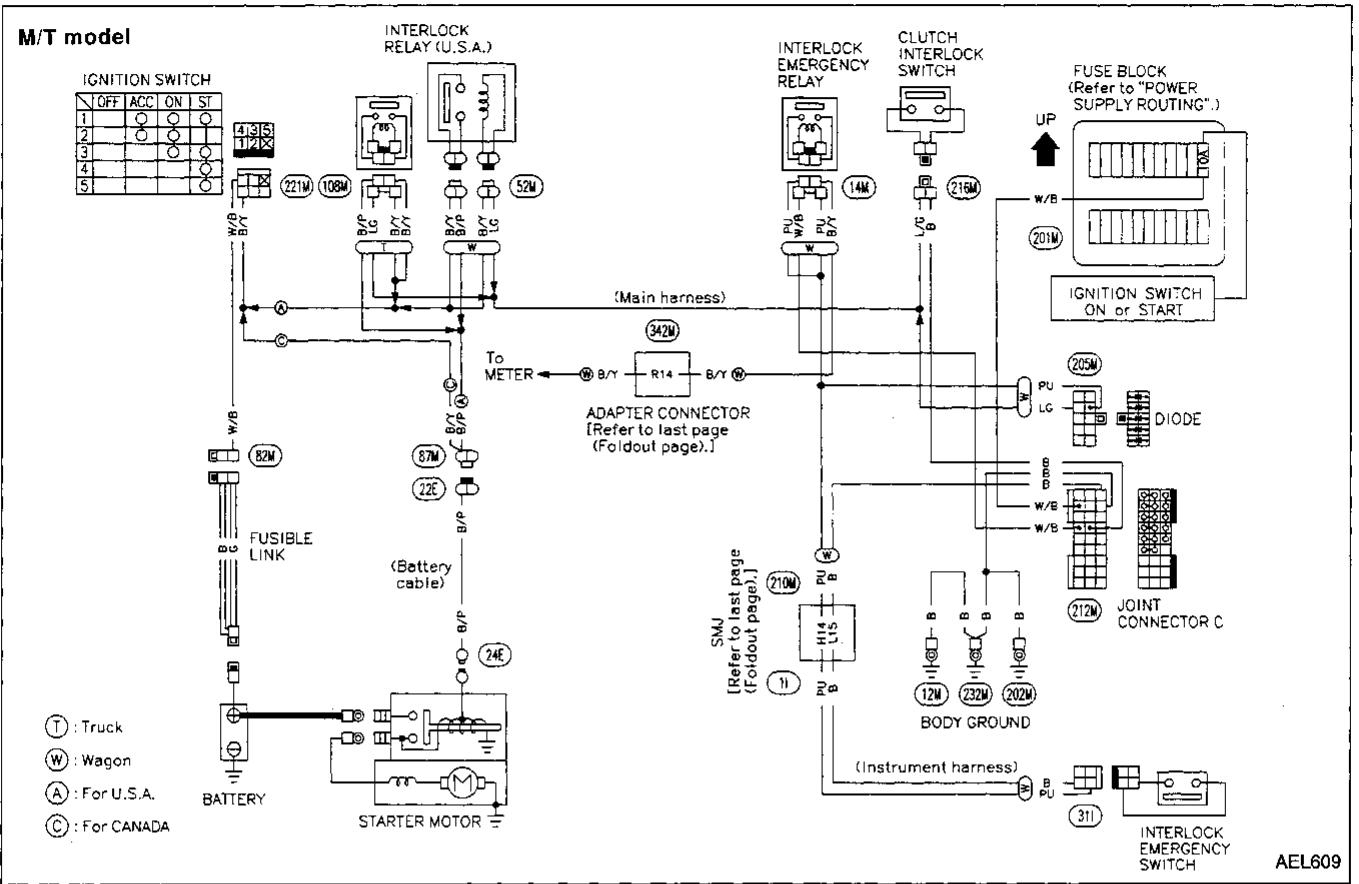
## Wiring Diagram



# STARTING SYSTEM

## Wiring Diagram

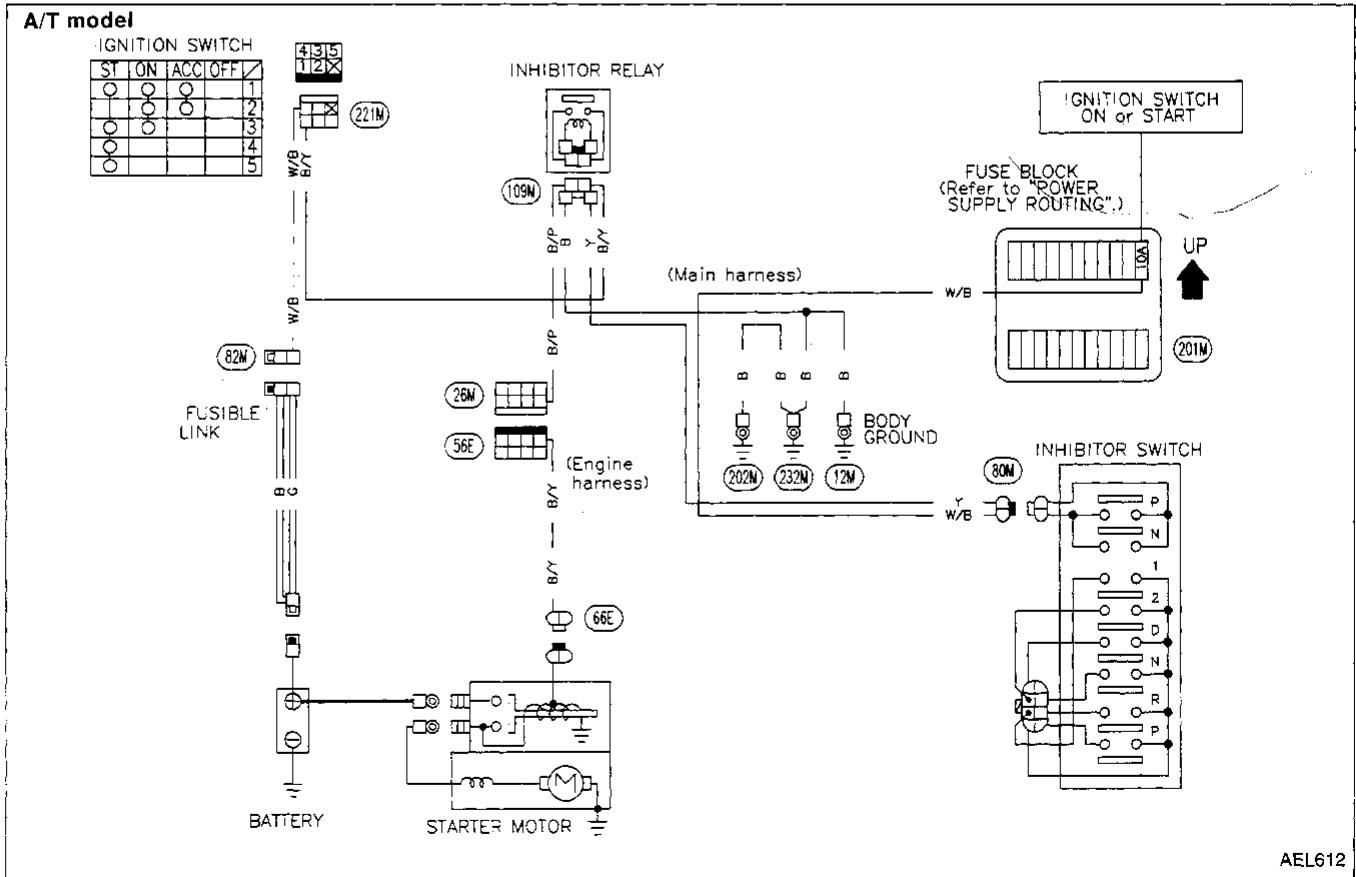
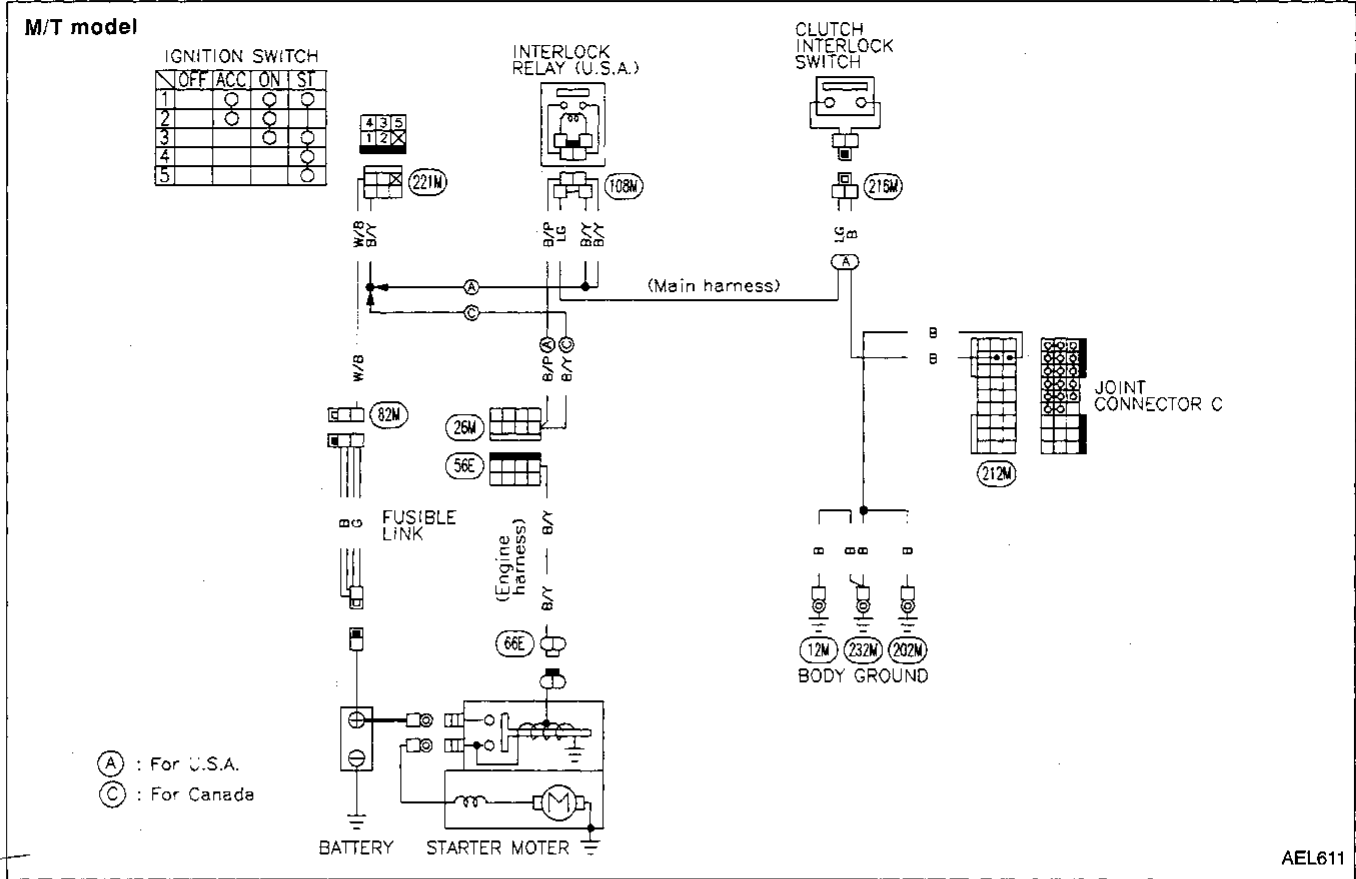
### VG30E ENGINE MODEL



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# STARTING SYSTEM Wiring Diagram (Cont'd)

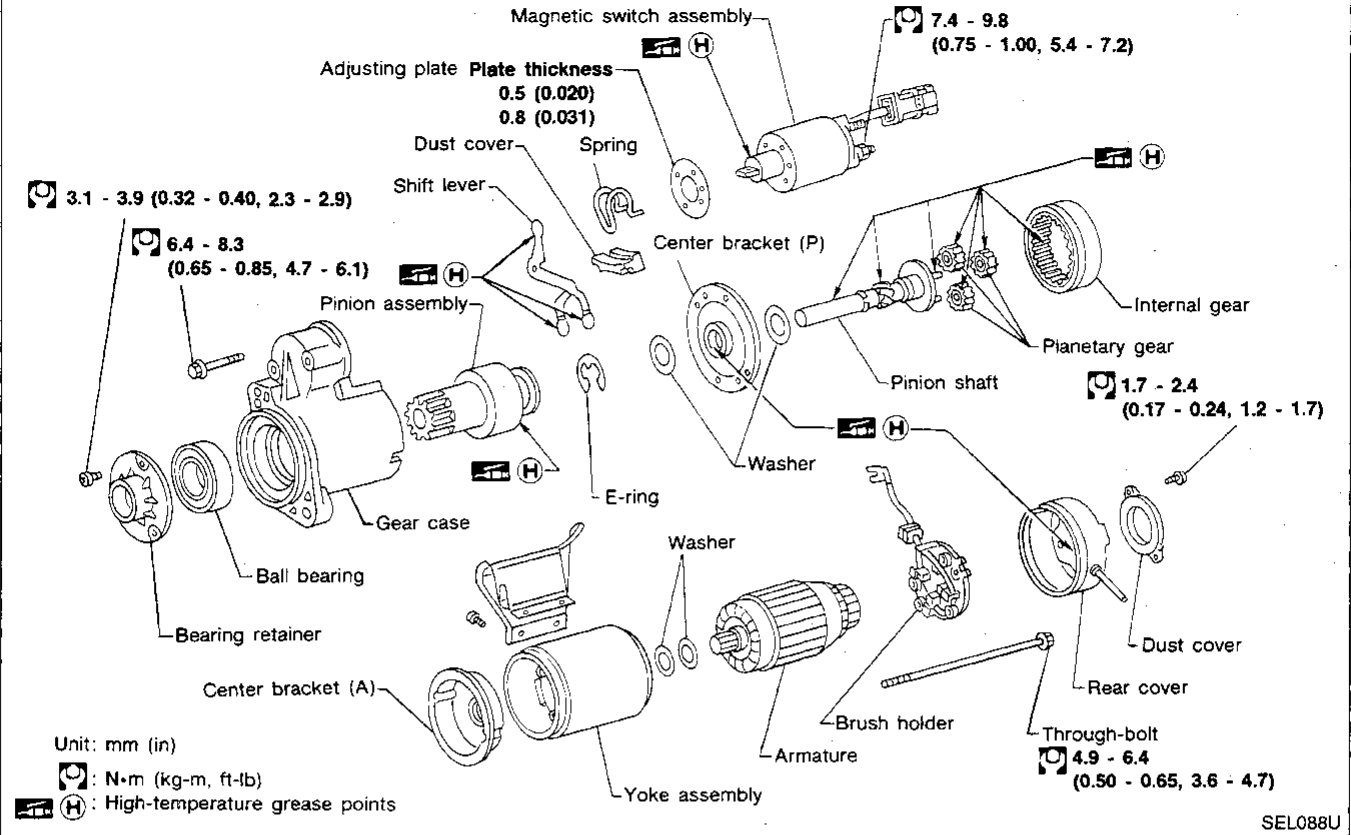
## KA24E ENGINE MODEL



# STARTING SYSTEM

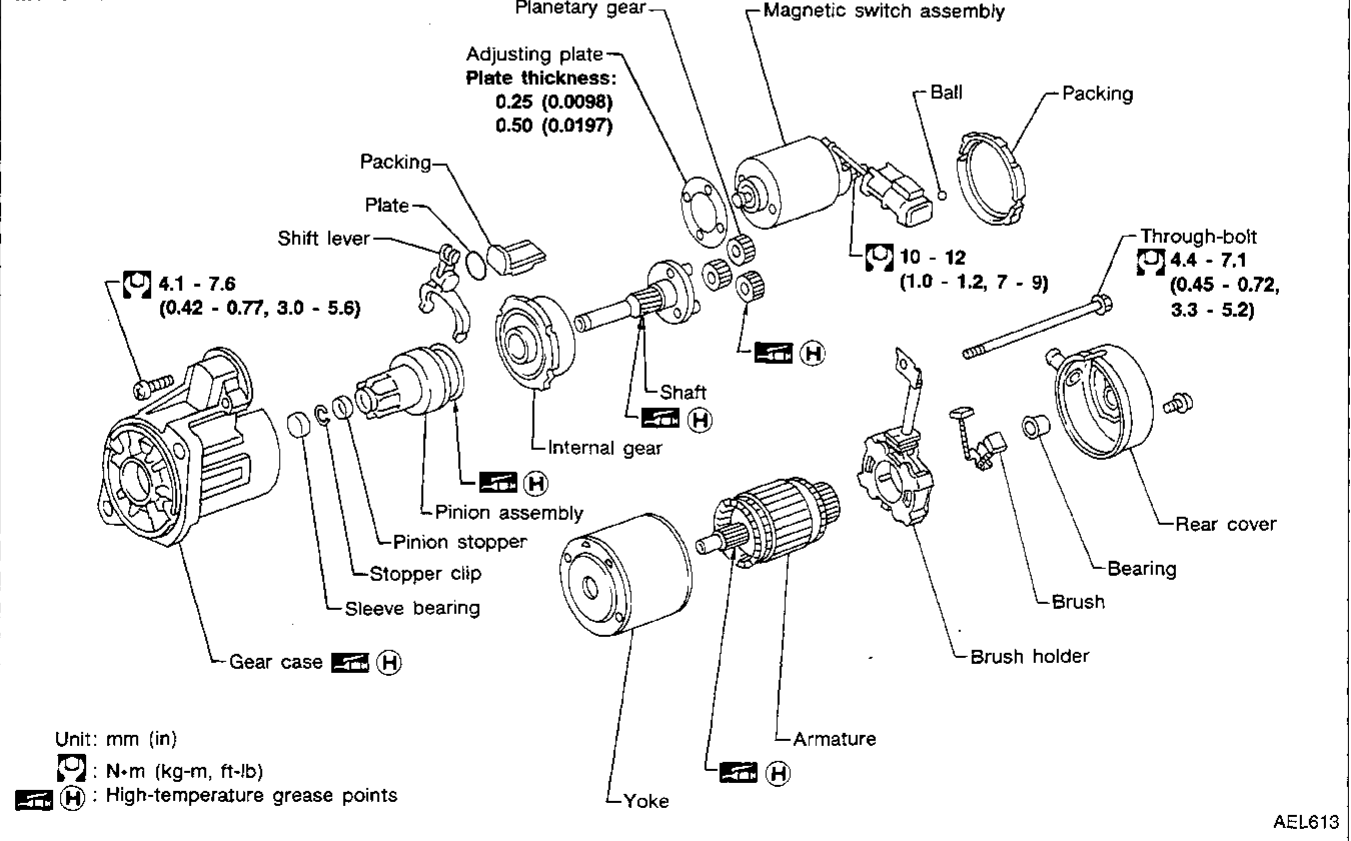
## Construction

S114-528A



SEL088U

M1T60285



AEL613

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# STARTING SYSTEM

## Service Data and Specifications (SDS)

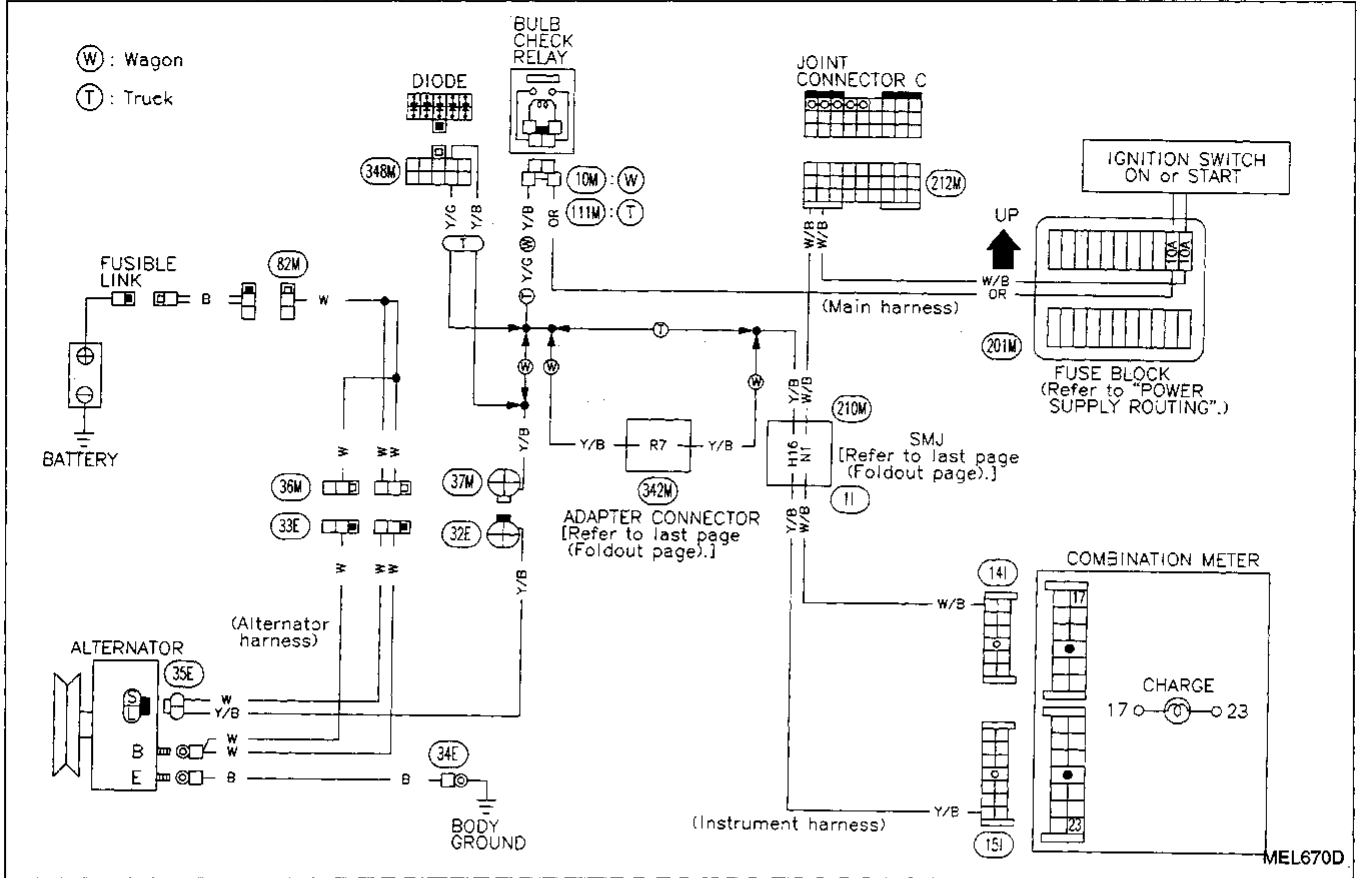
### STARTER

Type	S114-528A		M1760285	
	HITACHI		MITSUBISHI	
	Reduction		Reduction	
Applied model	VG30E		KA24E	
			U.S.A. 2WD	
			A/T	
System voltage	V	12		
No-load				
Terminal voltage	V	11.0		
Current	A	Less than 90	50 - 75	
Revolution	rpm	More than 2,650	3,000 - 4,000	
Minimum diameter of commutator	mm (in)	More than 32 (1.26)	More than 28.8 (1.134)	
Minimum length of brush	mm (in)	11 (0.43)	70 (0.276)	
Brush spring tension	N (kg, lb)	17.7 - 21.6 (1.8 - 2.2, 4.0 - 4.9)	11.8 - 23.5 (1.2 - 2.4, 2.6 - 5.3)	
Movement in height of pinion assembly	mm (in)	—	0.5 - 2.0 (0.020 - 0.079)	
Clearance of bearing metal and armature shaft	mm (in)	Less than 0.2 (0.008)		
Clearance between pinion front edge and pinion stopper	mm (in)	0.3 - 1.5 (0.012 - 0.059)	—	

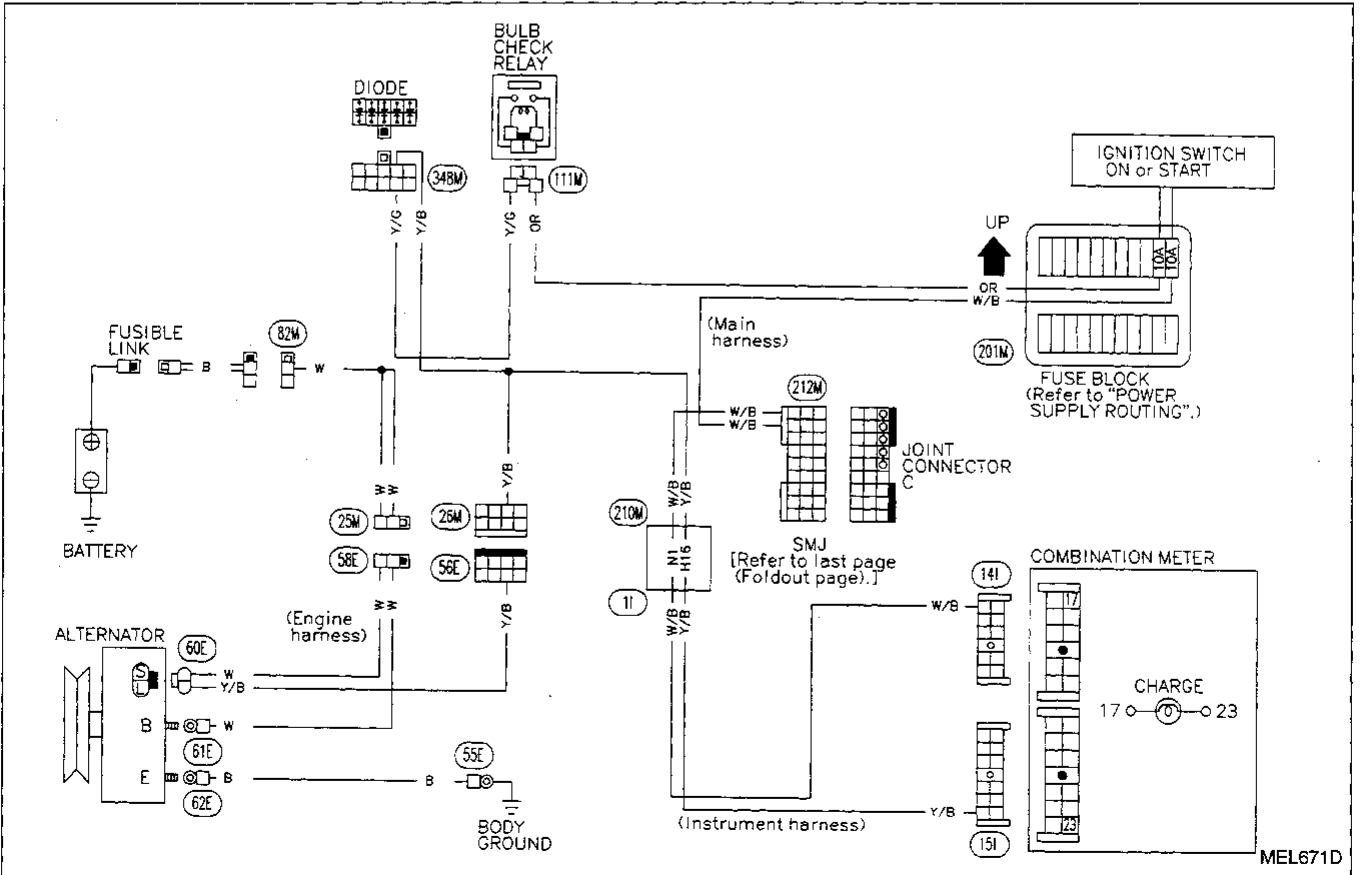
# CHARGING SYSTEM

## Wiring Diagram

### VG30E ENGINE MODEL



### KA24E ENGINE MODEL



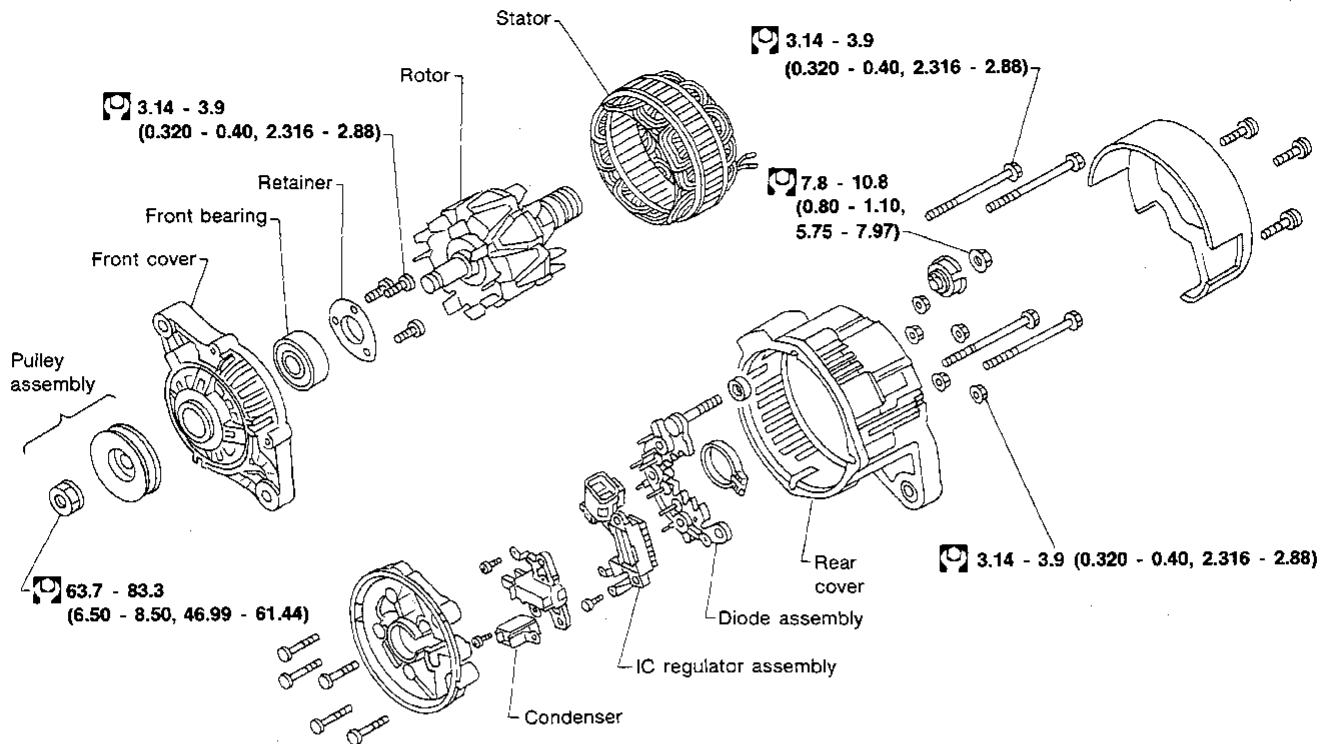
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# CHARGING SYSTEM

## Construction

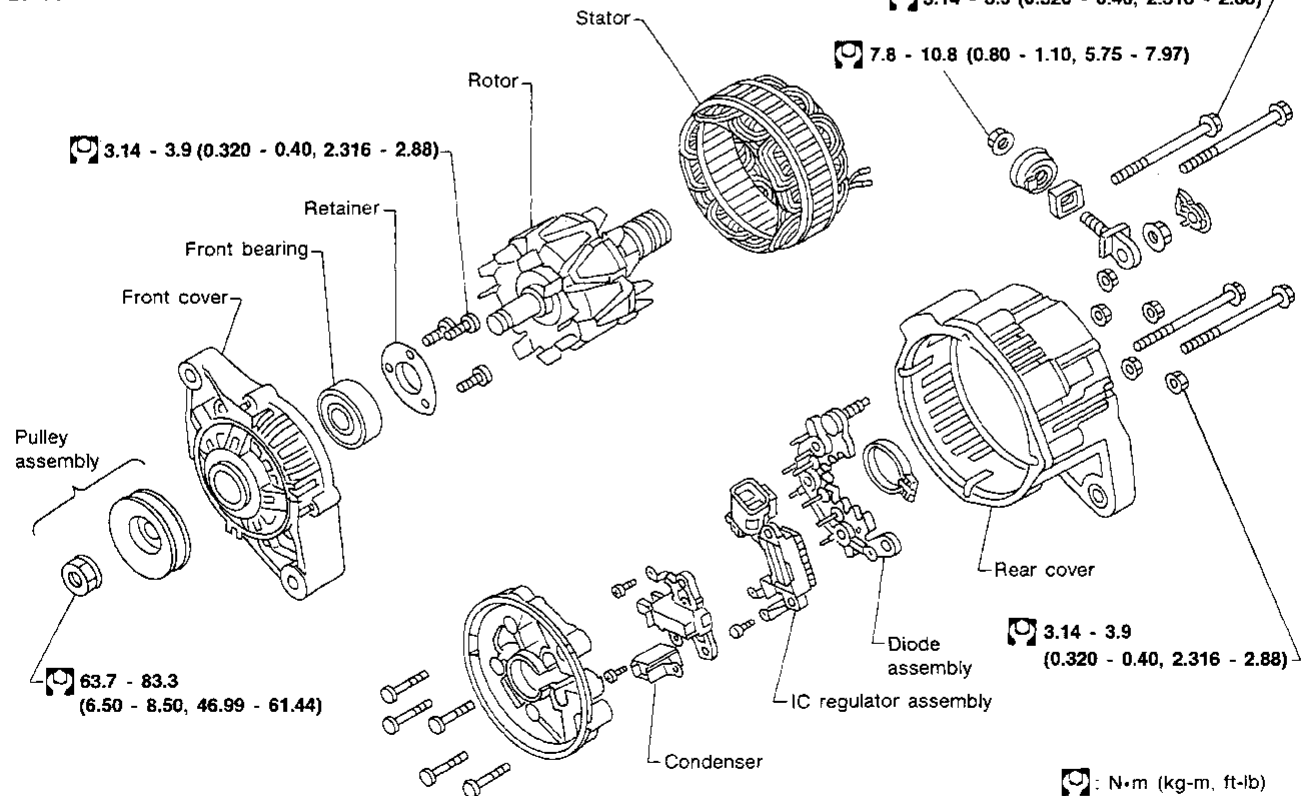
LR170-745



: N·m (kg-m, ft-lb)

MEL719D

LR160-727



: N·m (kg-m, ft-lb)

MEL720D

# CHARGING SYSTEM

## Service Data and Specifications (SDS)

### ALTERNATOR

Applied model		VG30E	KA24E
Type		LR170-745	LR160-727
Nominal rating	V-A	12-70	12-60
Ground polarity		Negative	
Minimum revolution under no-load (When 13.5 volts is applied)	rpm	Less than 1000	Less than 1,000
Hot output current (When 13.5 volts is applied)	A/rpm	More than 22/1,300 More than 50/2,500 More than 67/5,000	More than 17/1,300 More than 48/2,500 More than 57/5,000
Regulated output voltage	V	14.1 - 14.7	
Minimum length of brush	mm (in)	6 (0.24)	
Slip ring minimum outer diameter	mm (in)	More than 26.0 (1.024)	
Rotor (Field coil resistance)	$\Omega$	2.67	2.58

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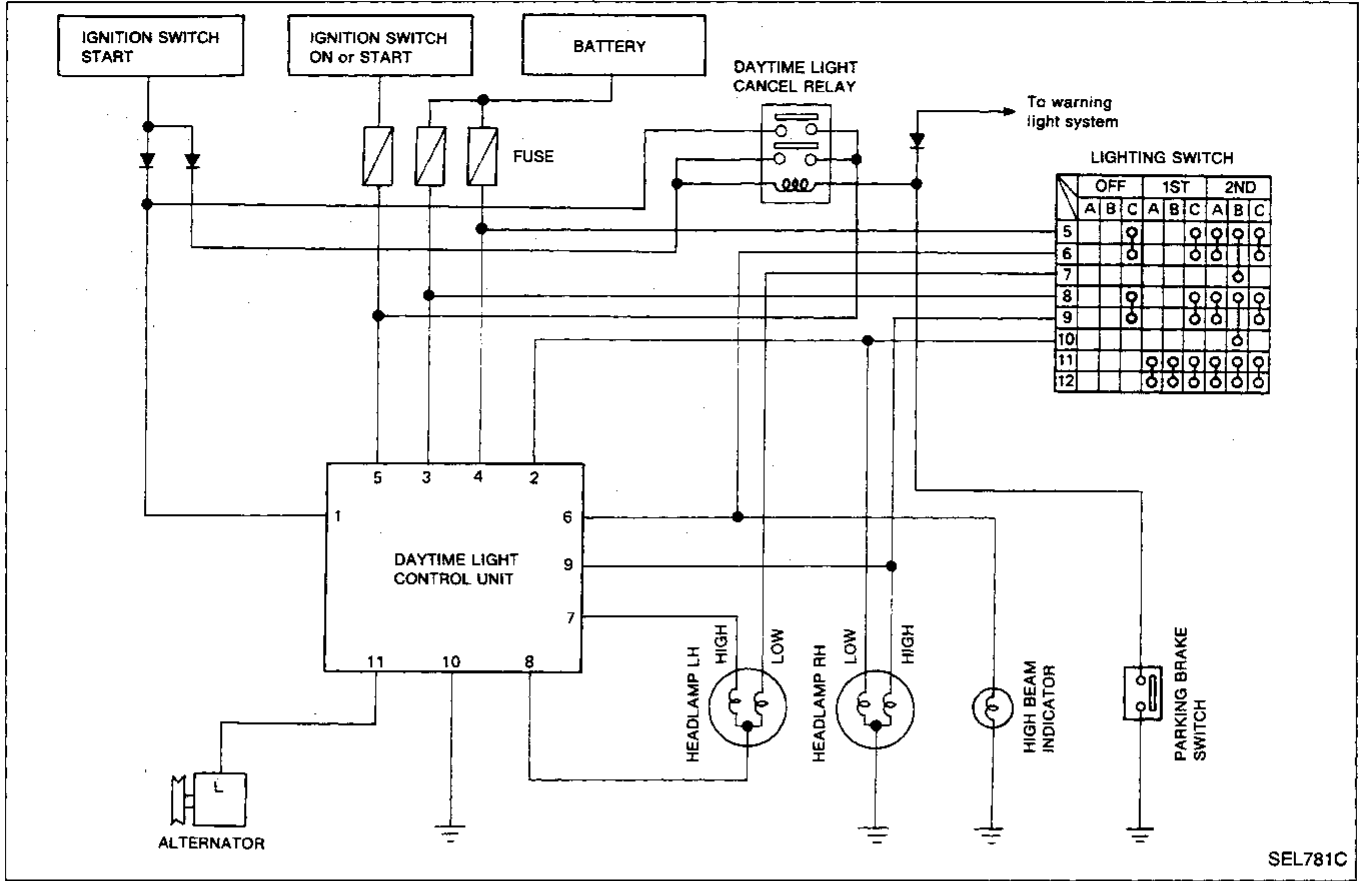
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# HEADLAMP

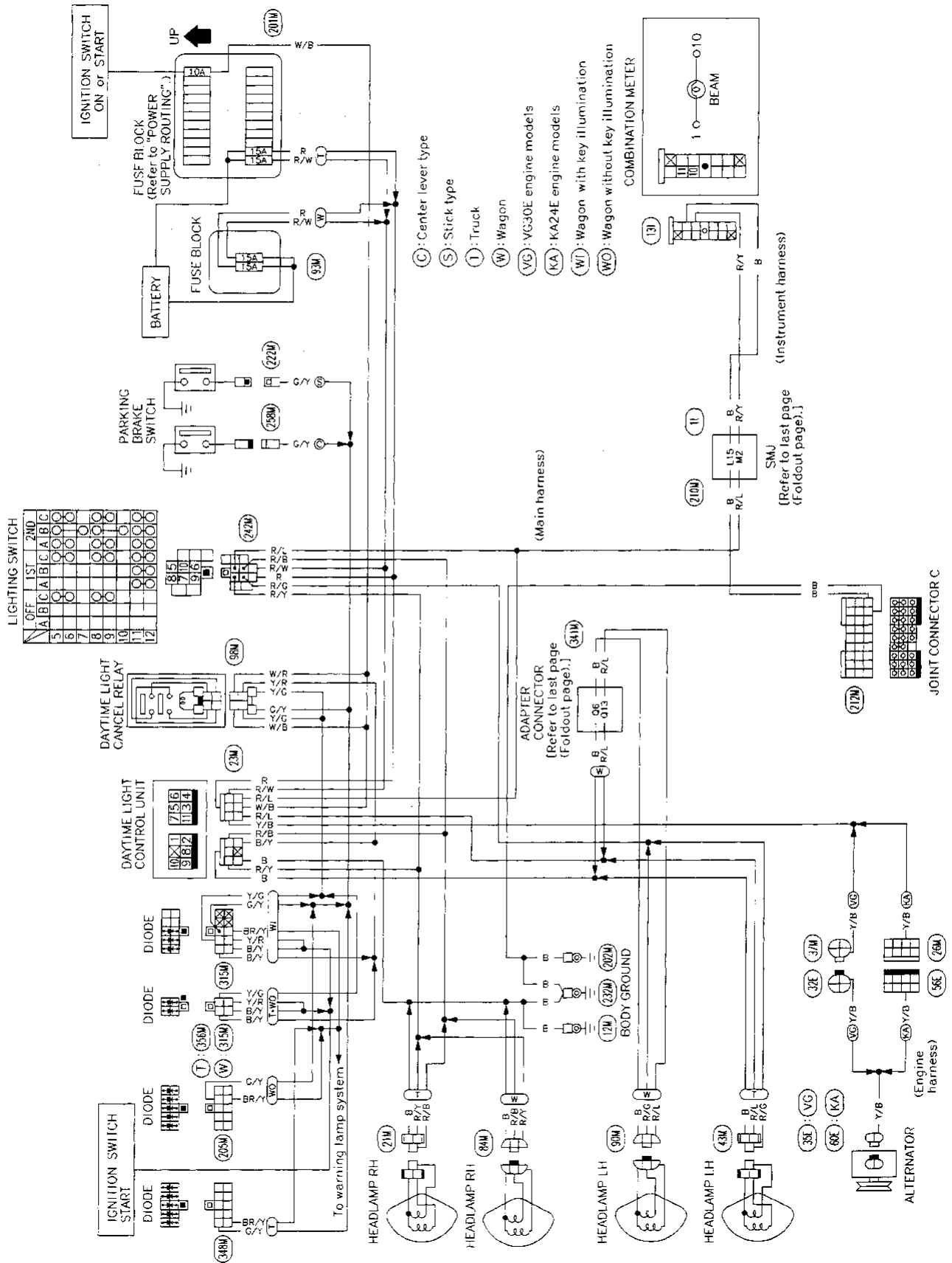
## Schematic (Daytime light system for Canada)



SEL781C

# HEADLAMP

## Wiring Diagram (Daytime light system for Canada)



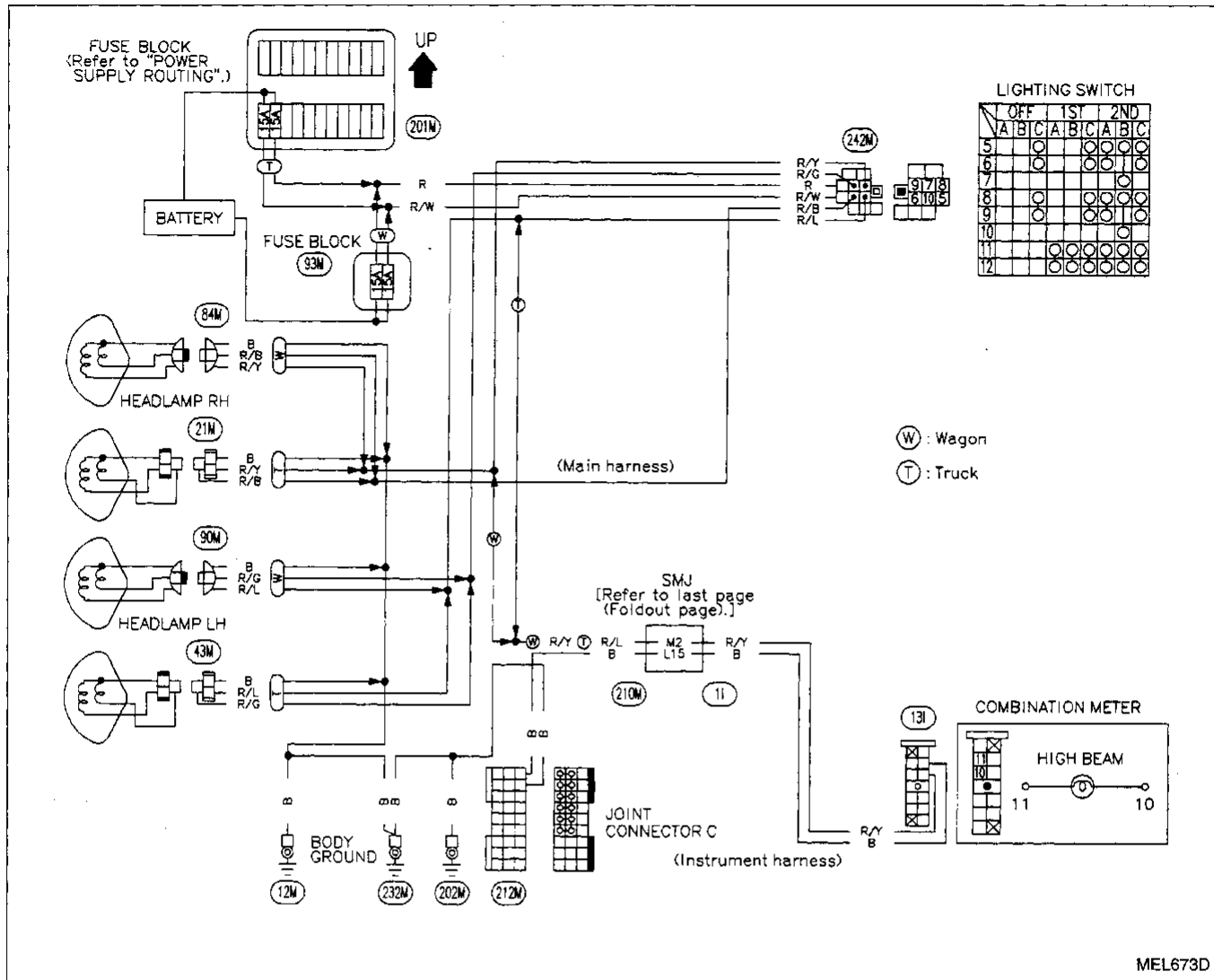
LIGHTING SWITCH

OFF	1ST	2ND
A	B	C
1	2	3
4	5	6
7	8	9
10	11	12

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# HEADLAMP

## Wiring Diagram (Except for Canada)

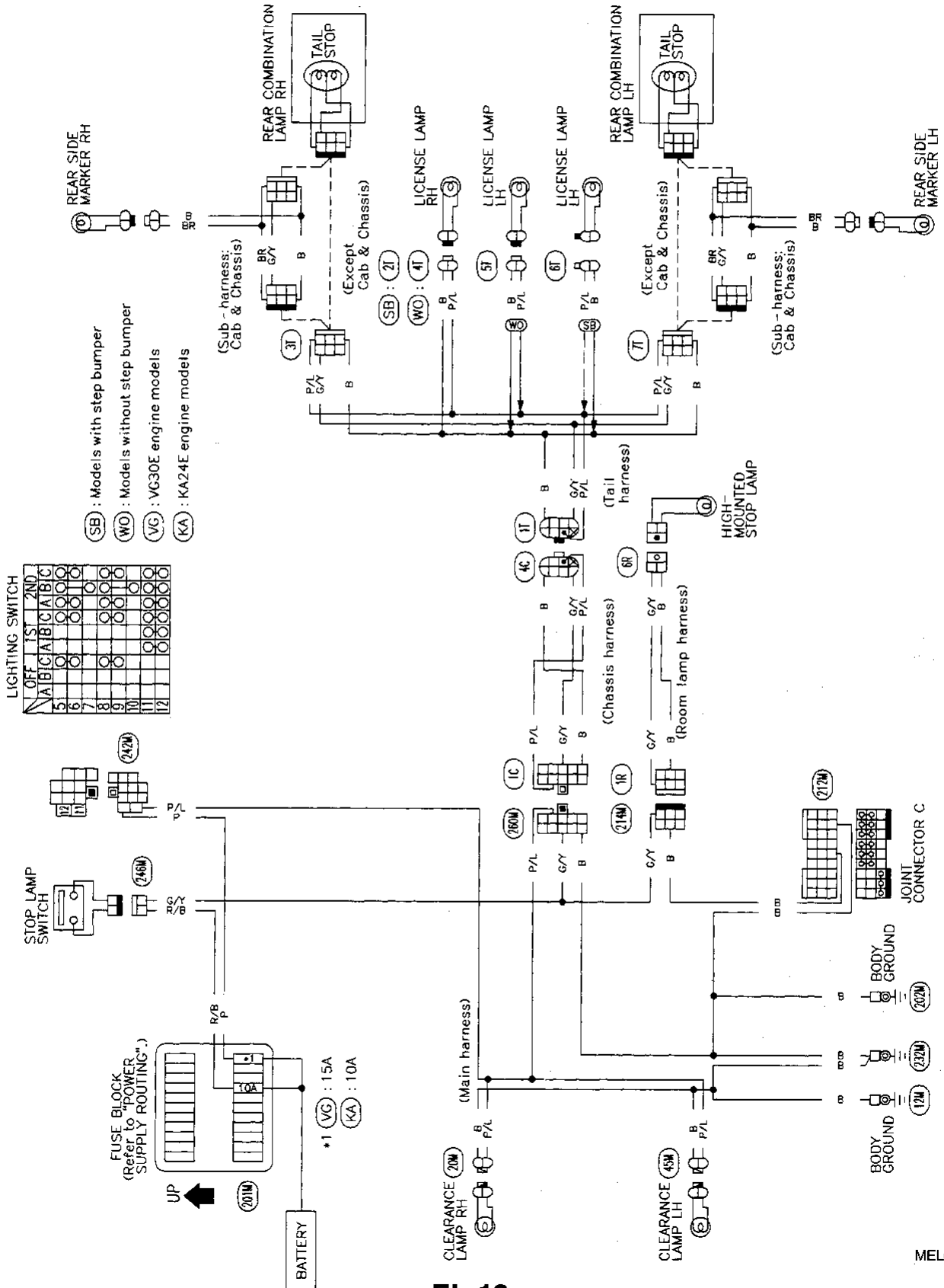


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# EXTERIOR LAMP

## Clearance, License, Tail and Stop Lamps/Wiring Diagram

TRUCK MODEL



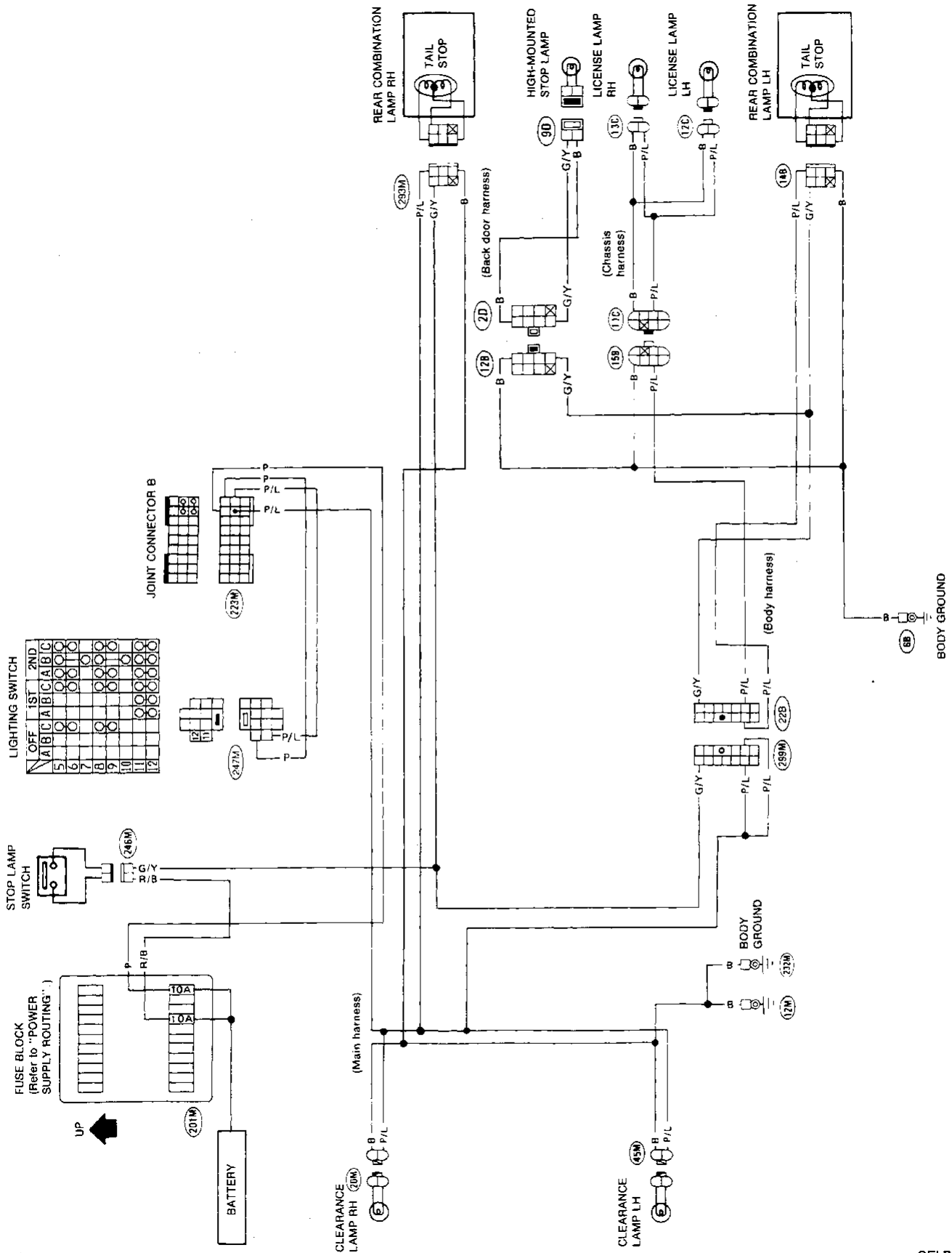
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# EXTERIOR LAMP

## Clearance, License, Tail and Stop Lamps/Wiring Diagram (Cont'd)

WAGON MODEL

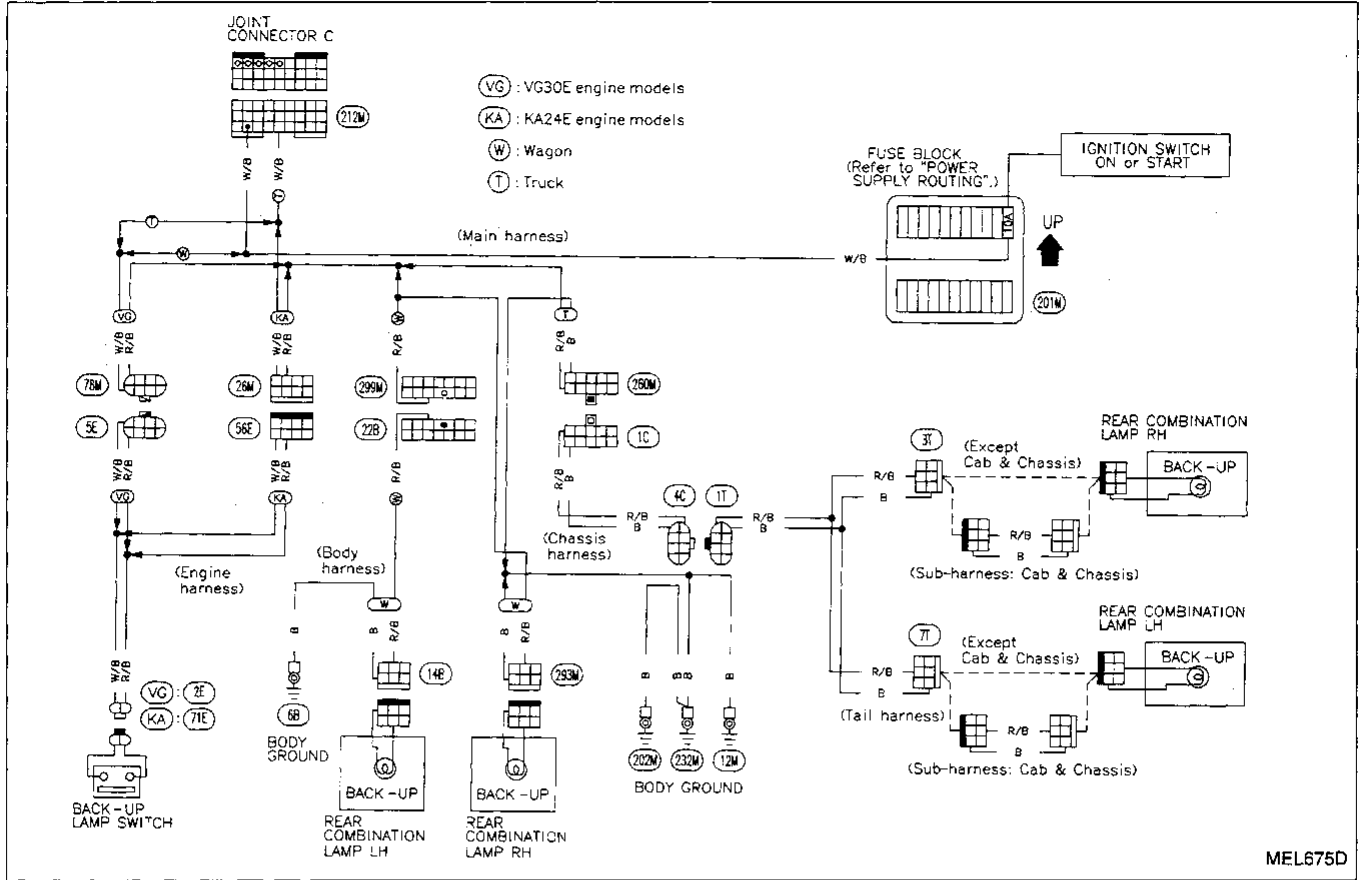


SEL786S

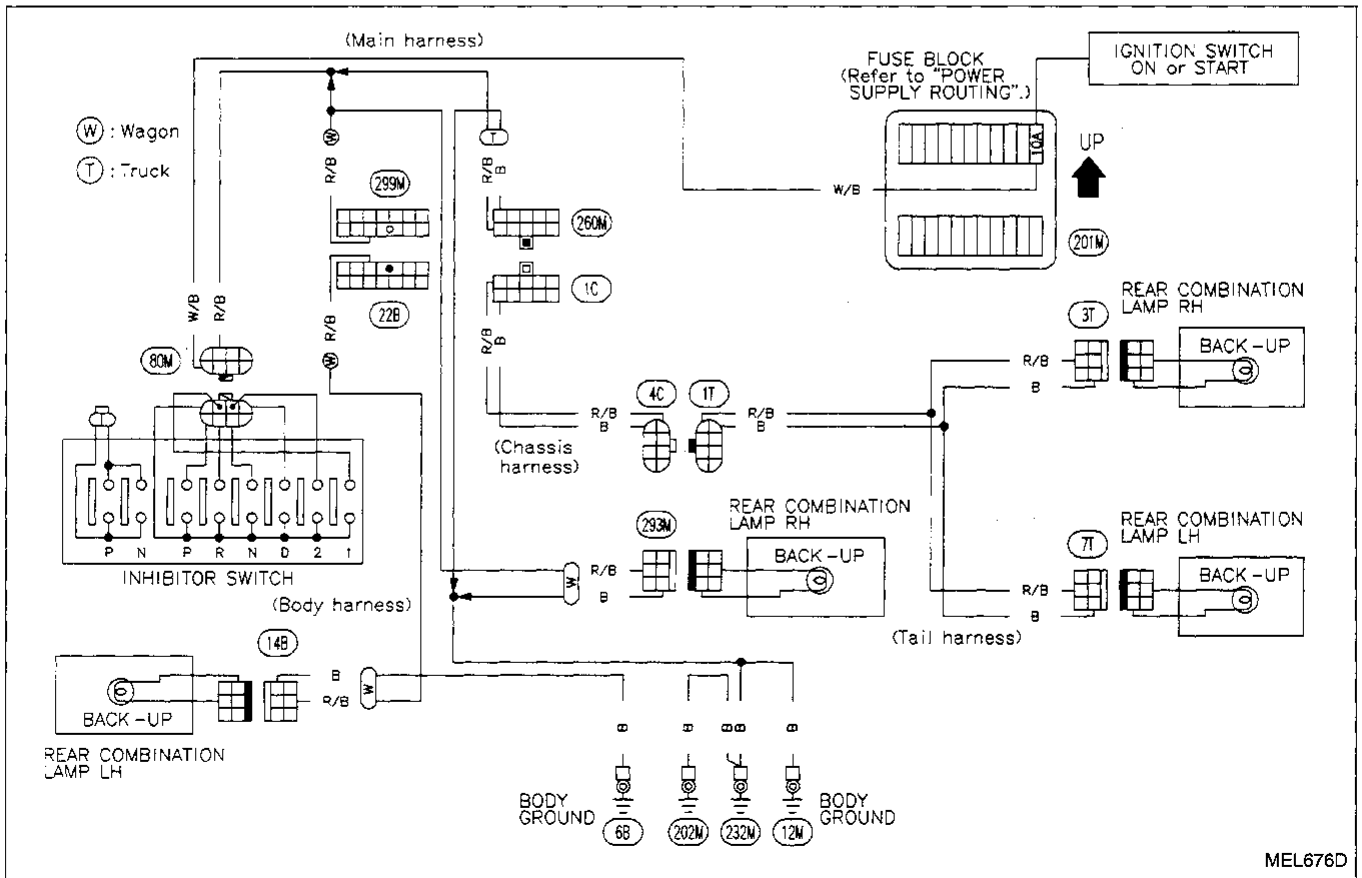
# EXTERIOR LAMP

## Back-up Lamp/Wiring Diagram

### M/T MODEL



### A/T MODEL



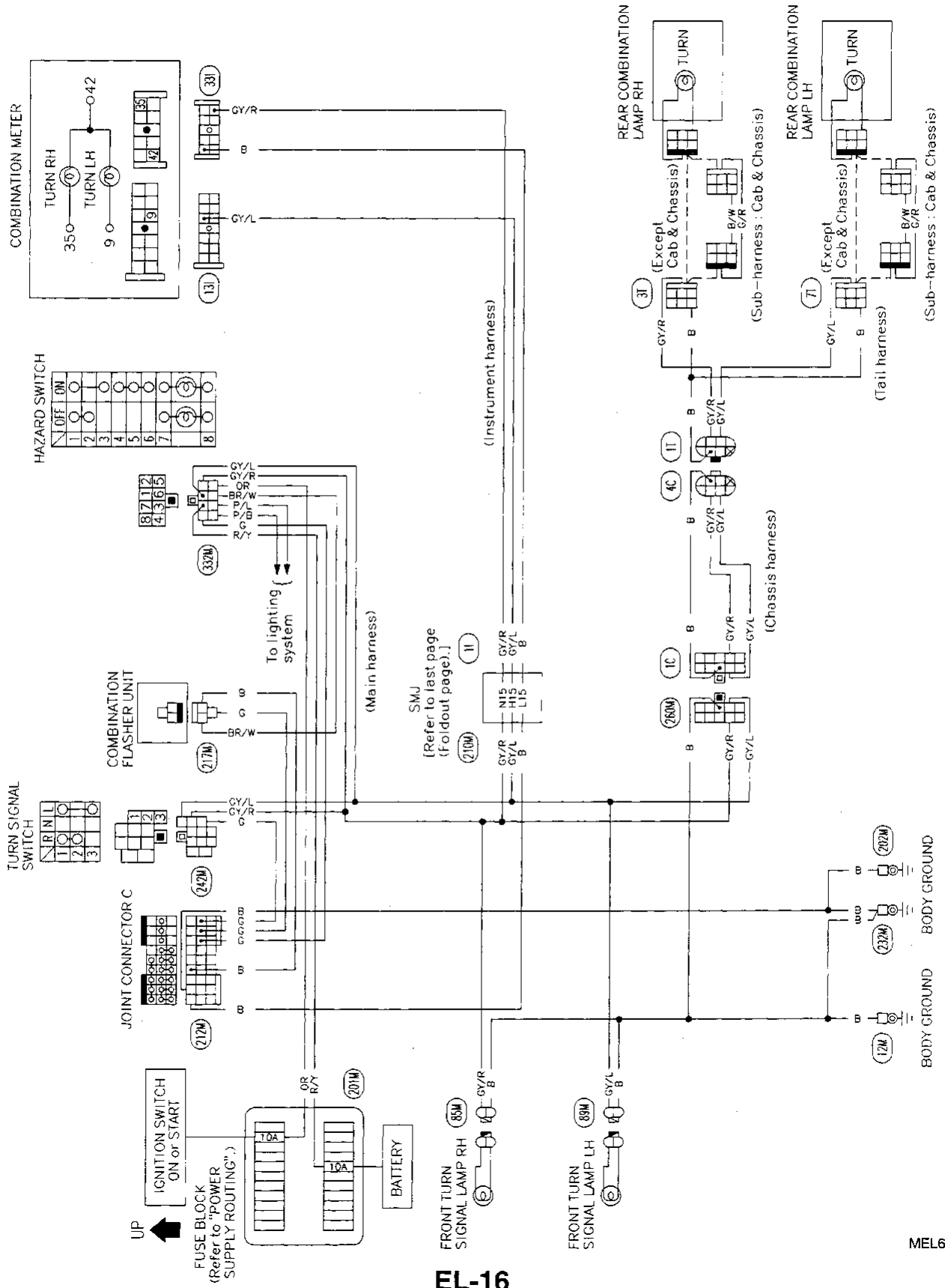
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# EXTERIOR LAMP

## Turn Signal and Hazard Warning Lamps/Wiring Diagram

TRUCK MODEL

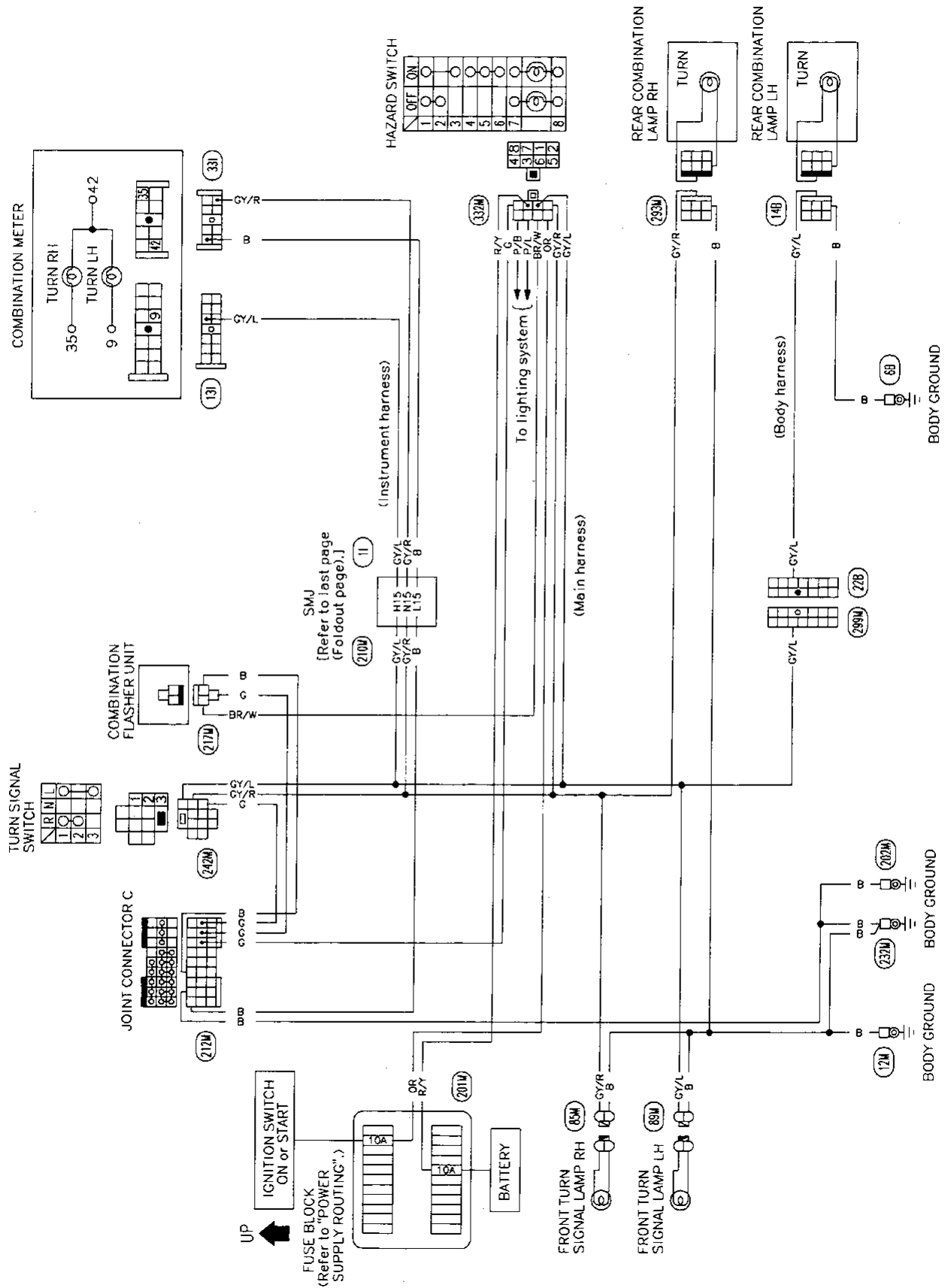


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# EXTERIOR LAMP

## Turn Signal and Hazard Warning Lamps/Wiring Diagram (Cont'd)

WAGON MODEL



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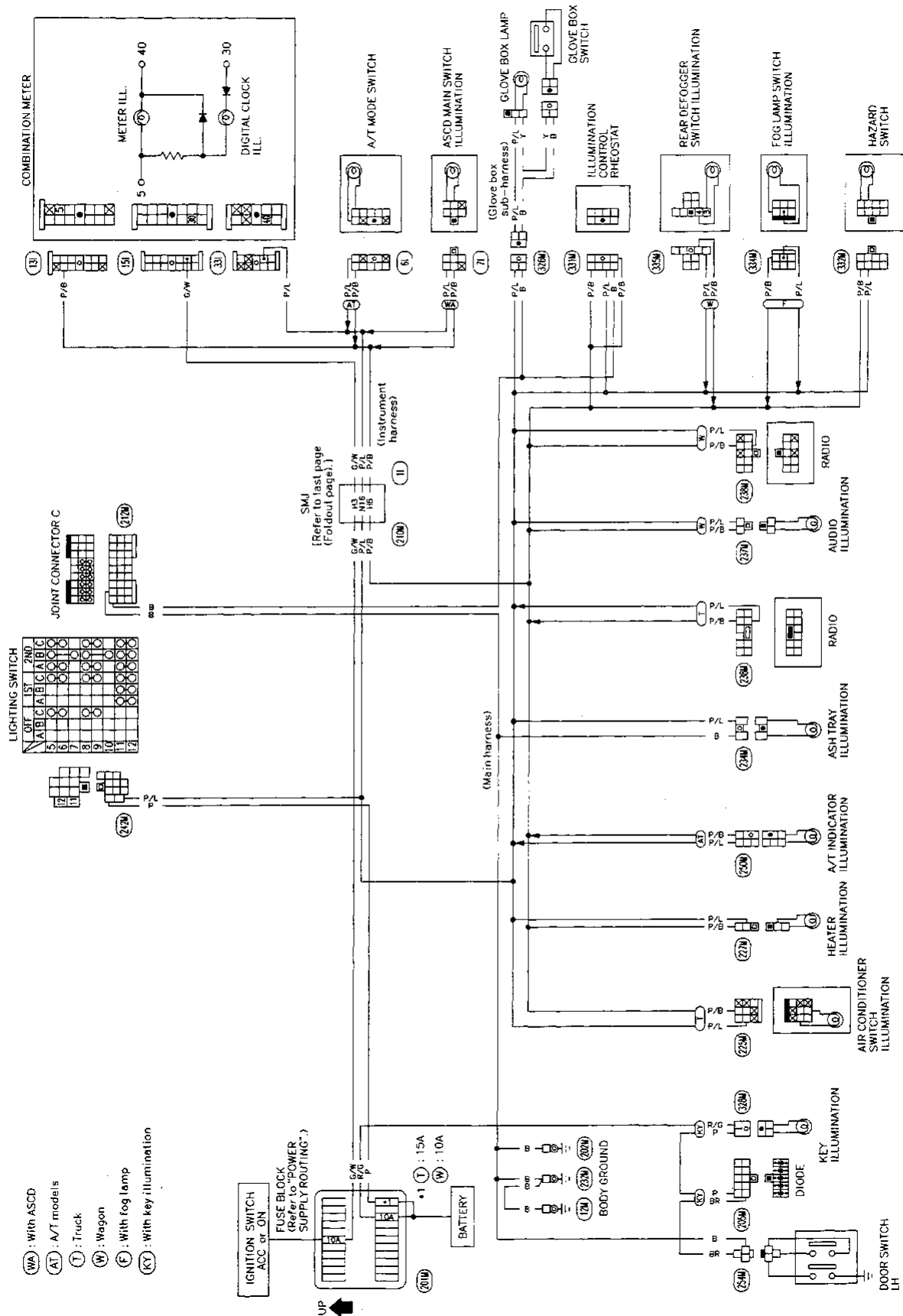
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# INTERIOR LAMP

## Illumination/Wiring Diagram

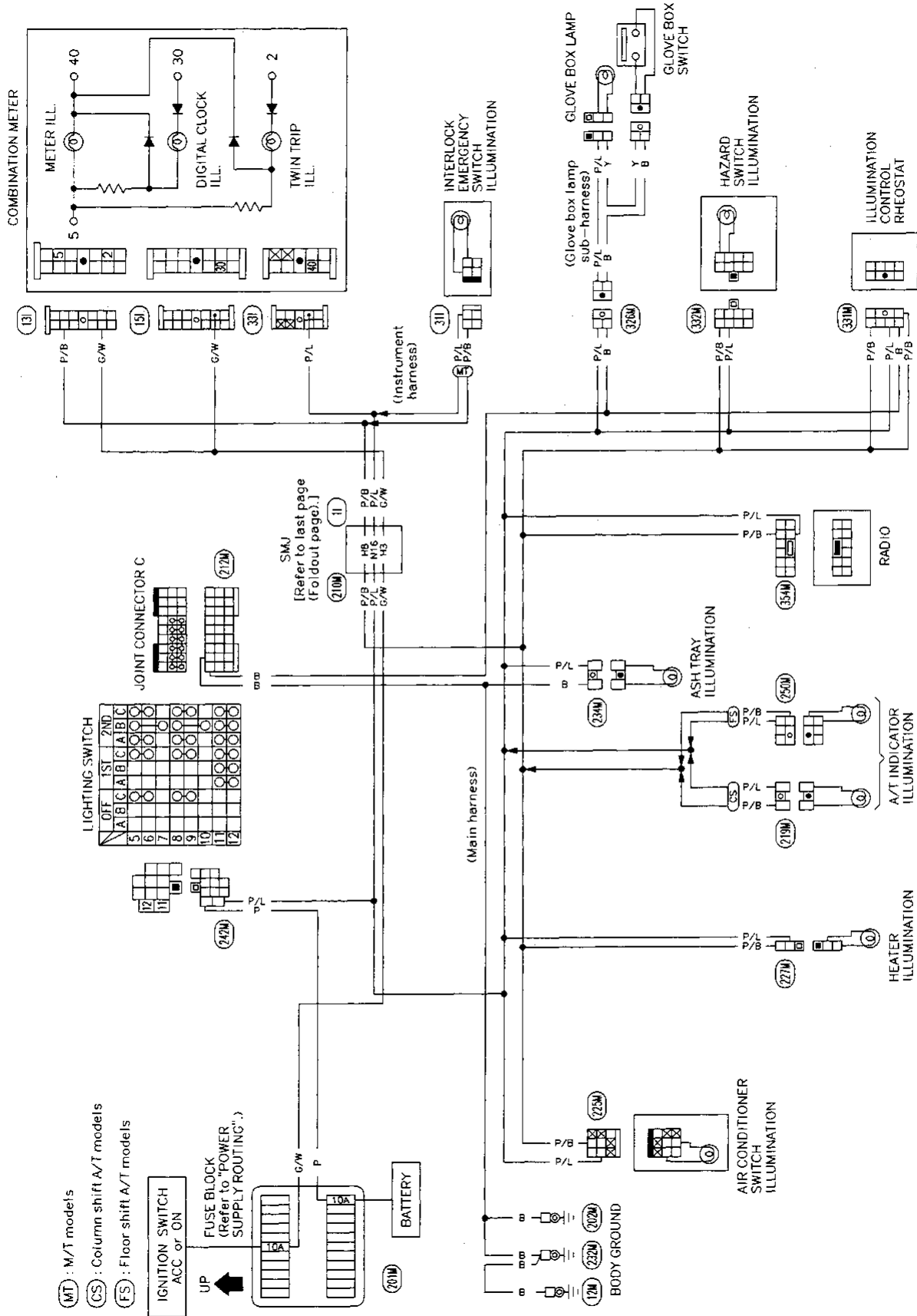
### VG30E ENGINE MODEL



# INTERIOR LAMP

## Illumination/Wiring Diagram (Cont'd)

KA24E ENGINE MODEL

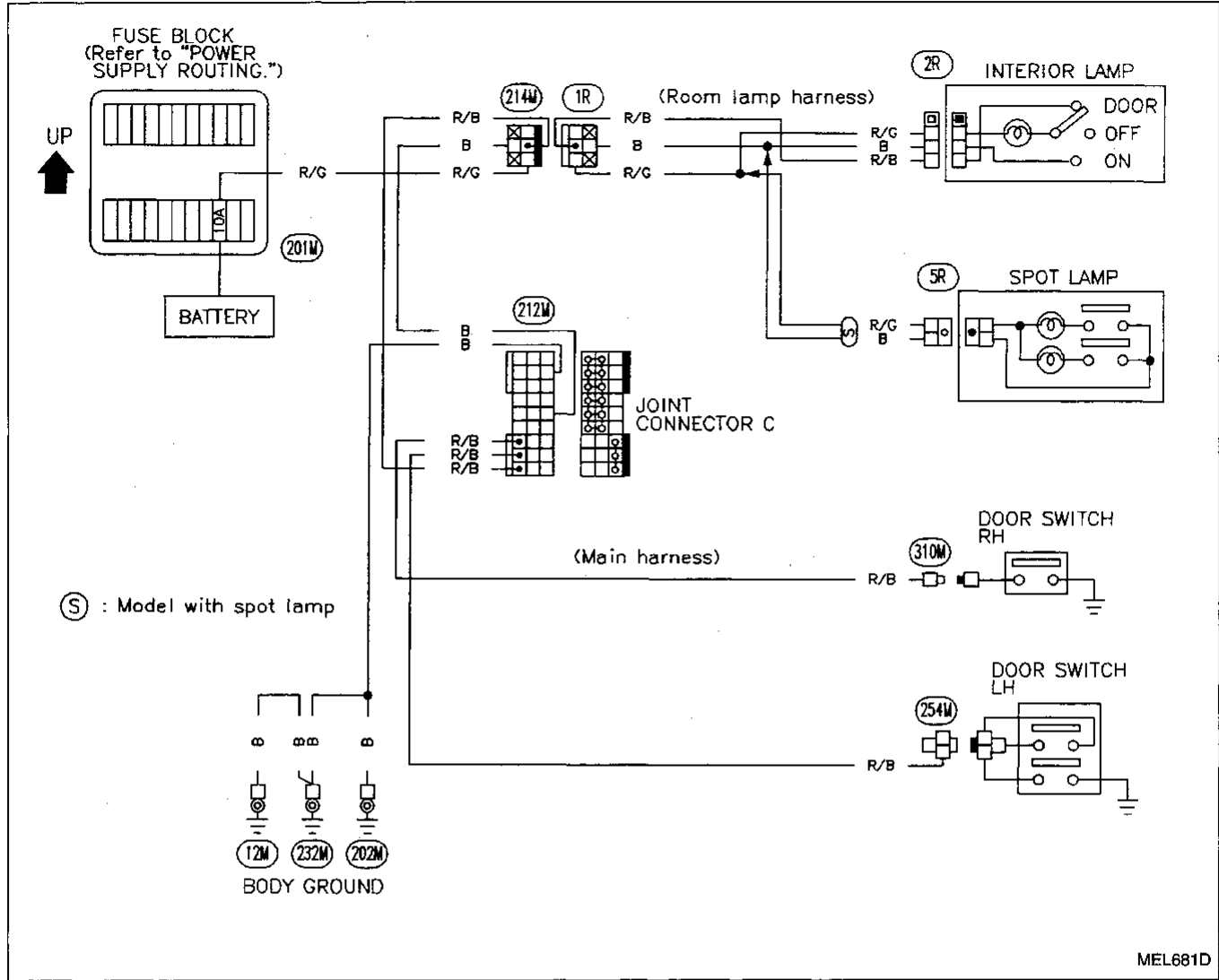


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# INTERIOR LAMP

## Interior Lamp/Wiring Diagram

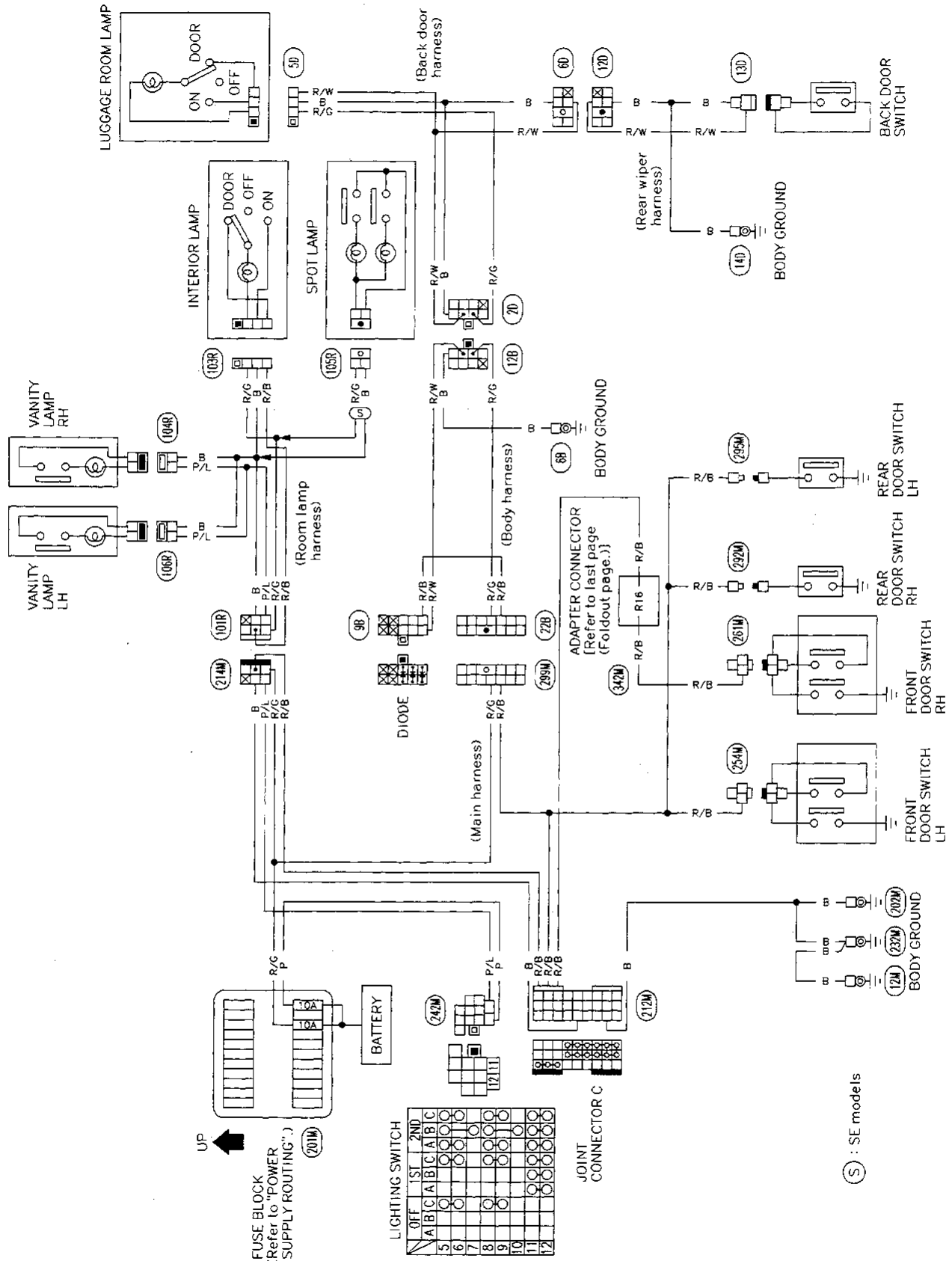
### TRUCK MODEL



# INTERIOR LAMP

## Interior Lamp/Wiring Diagram (Cont'd)

### WAGON MODEL



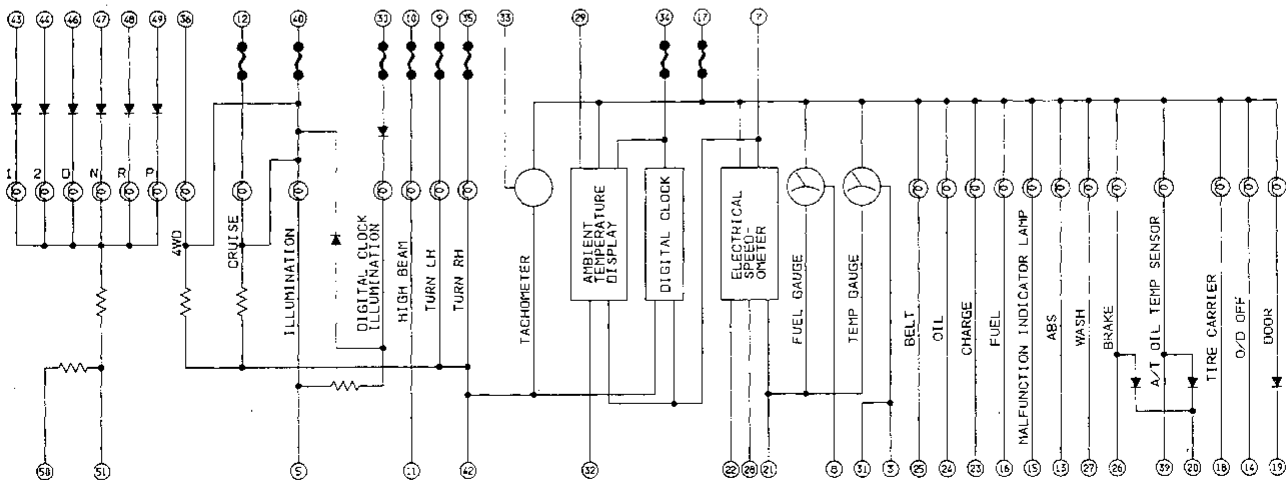
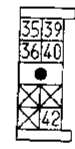
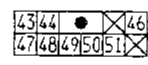
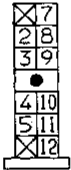
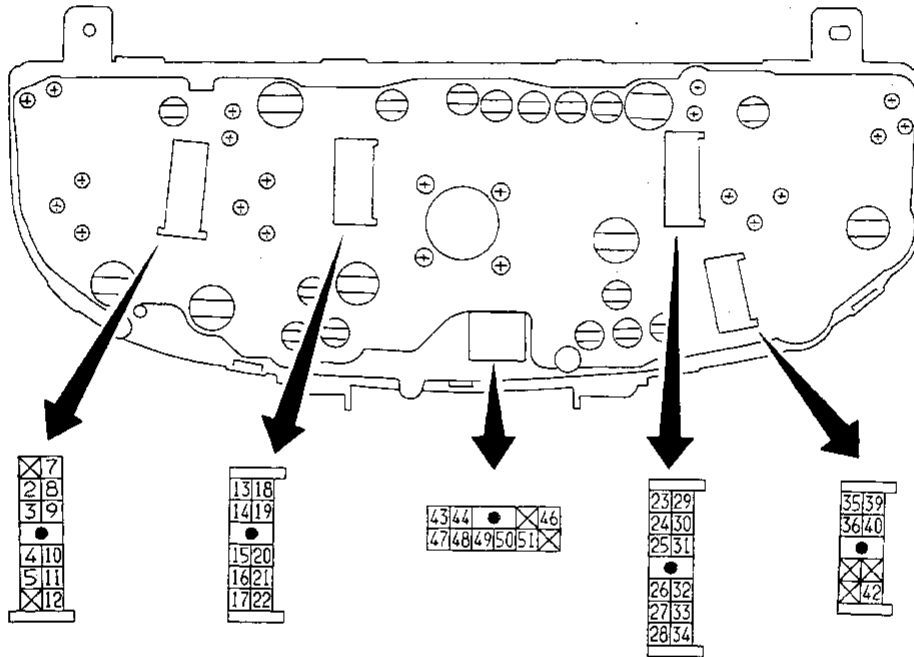
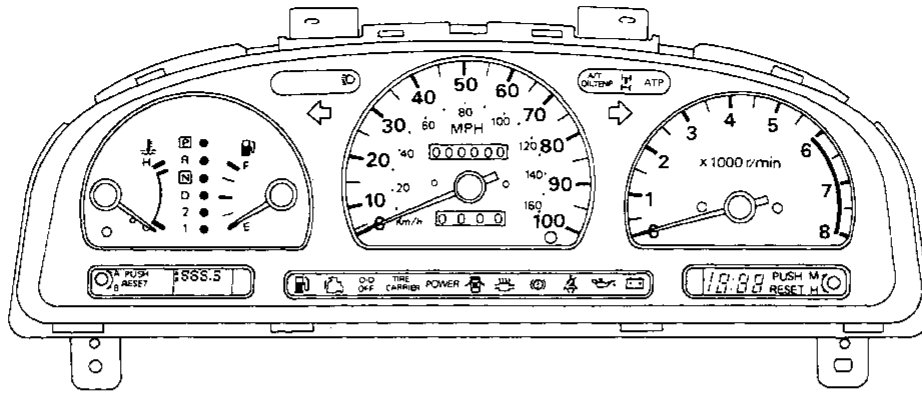
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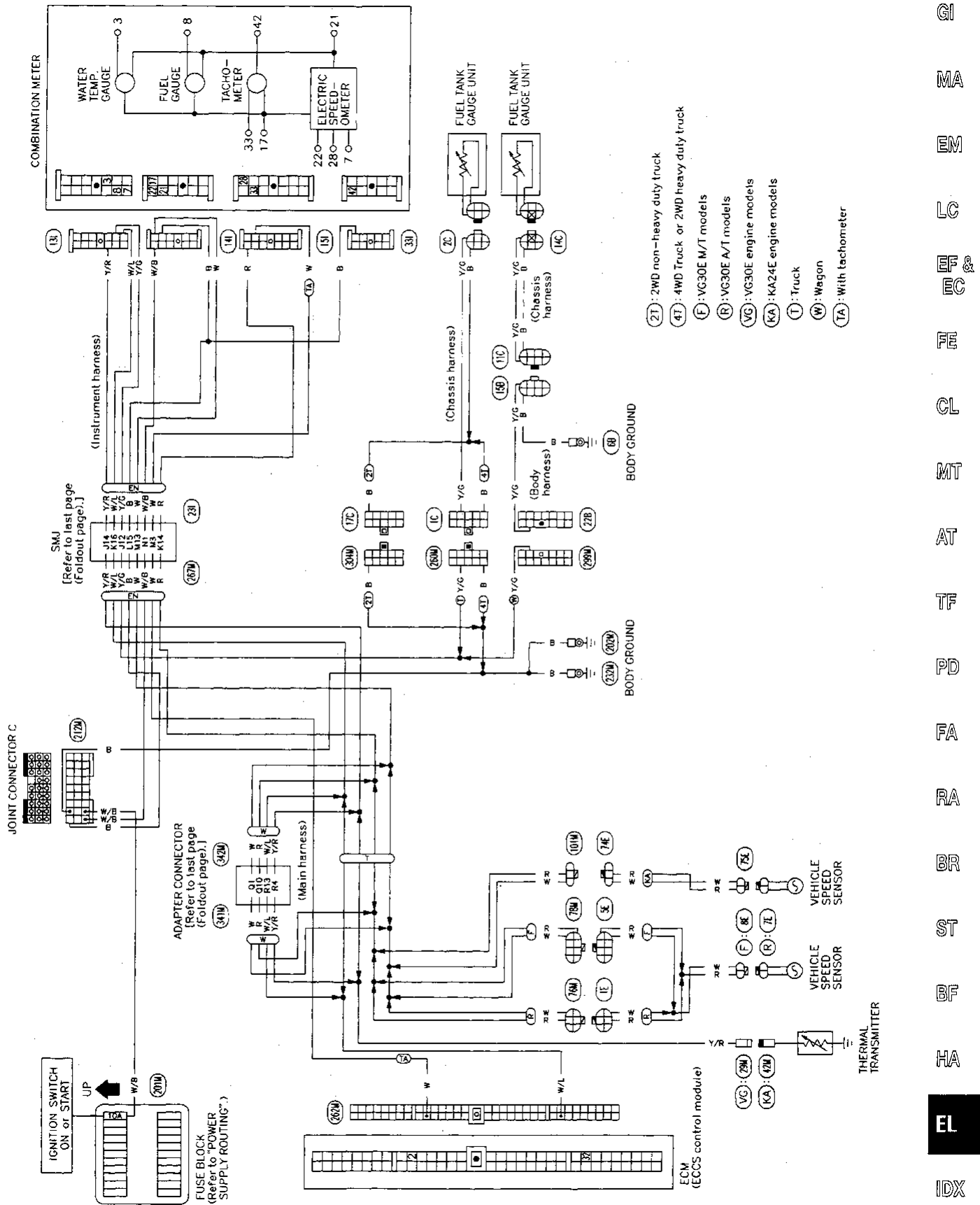
# METER AND GAUGES

## Combination Meter



# METER AND GAUGES

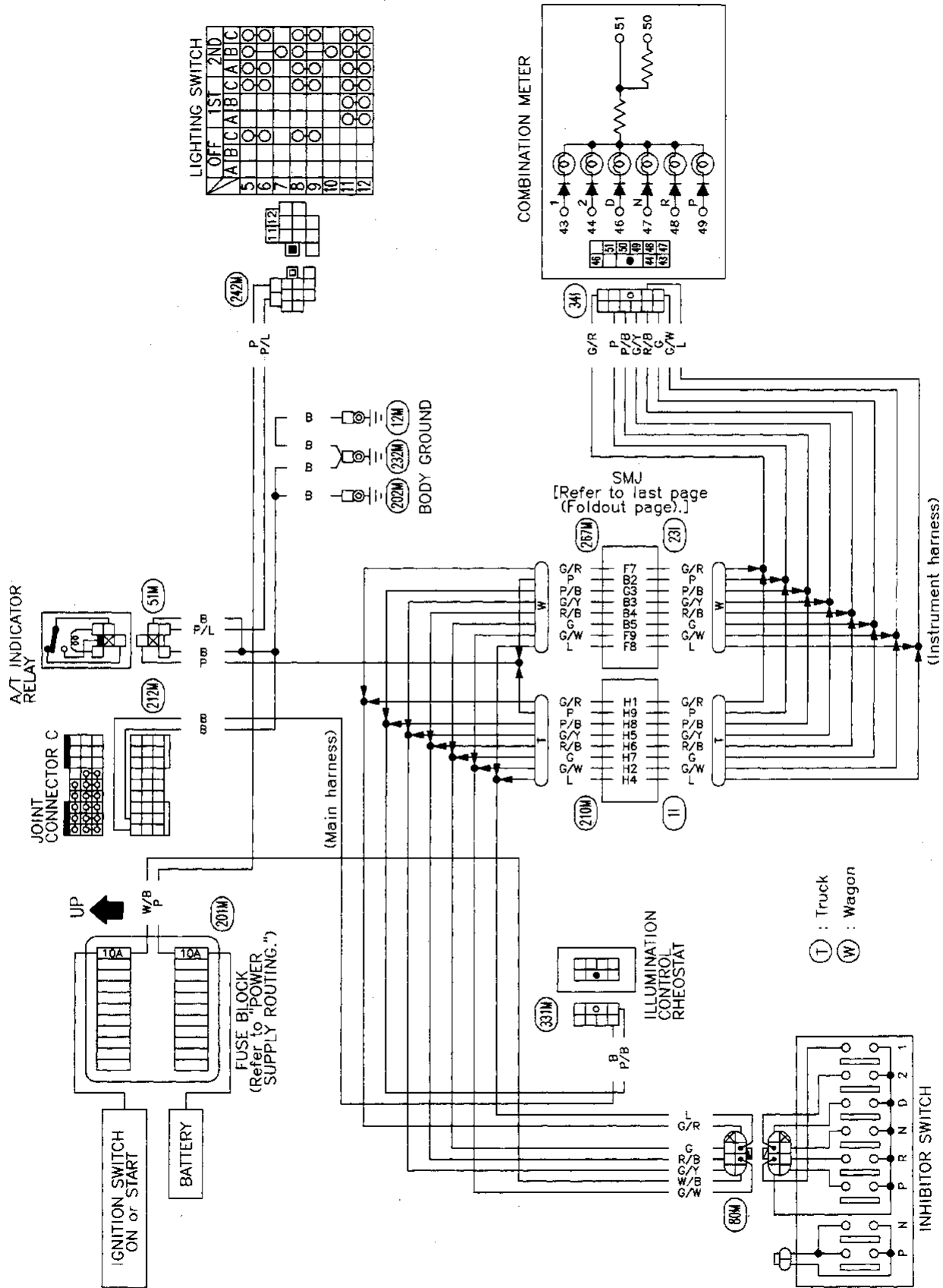
## Wiring Diagram



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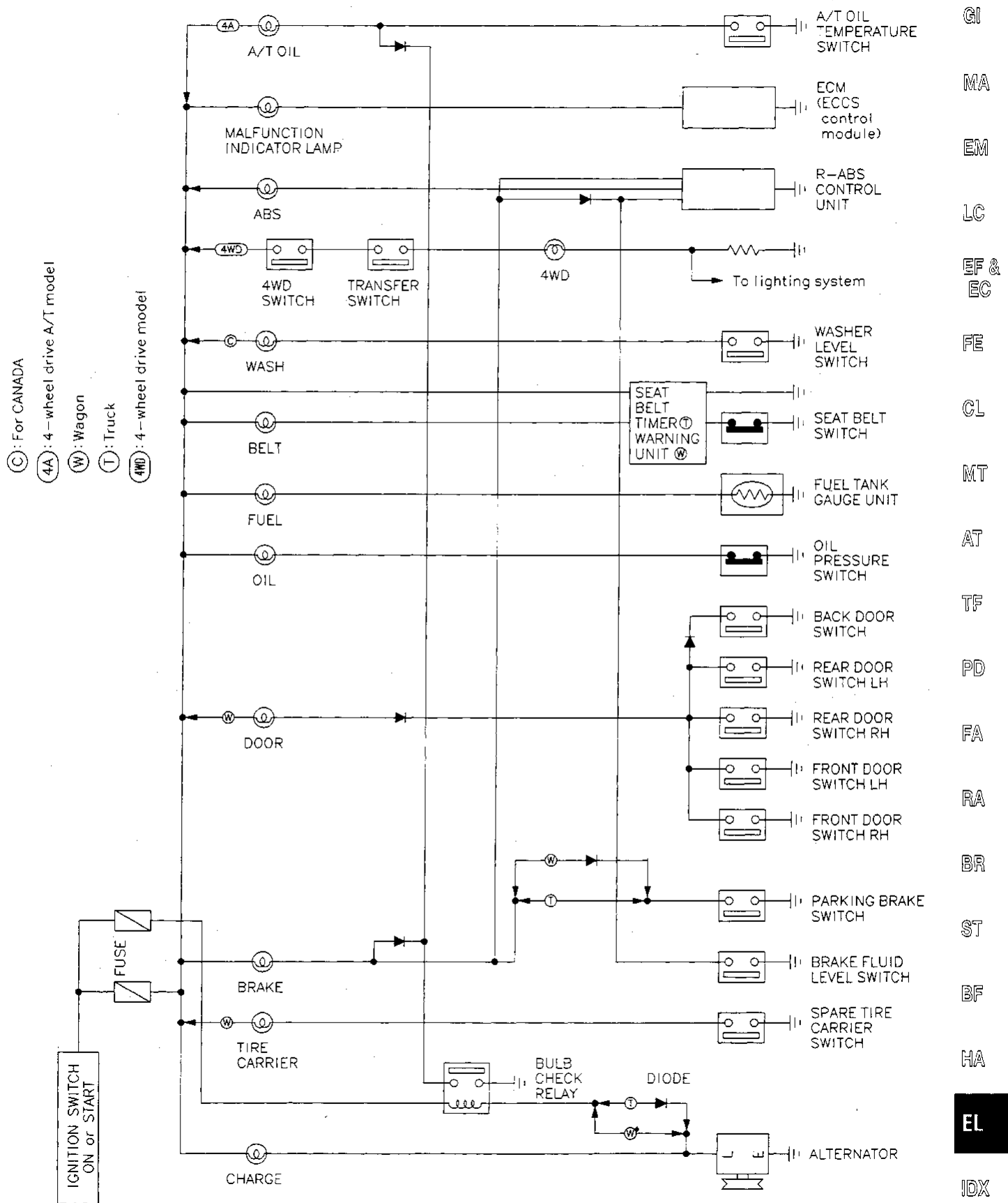


A/T Indicator Lamp/Wiring Diagram



# WARNING LAMPS AND CHIME

## Warning Lamps/Schematic

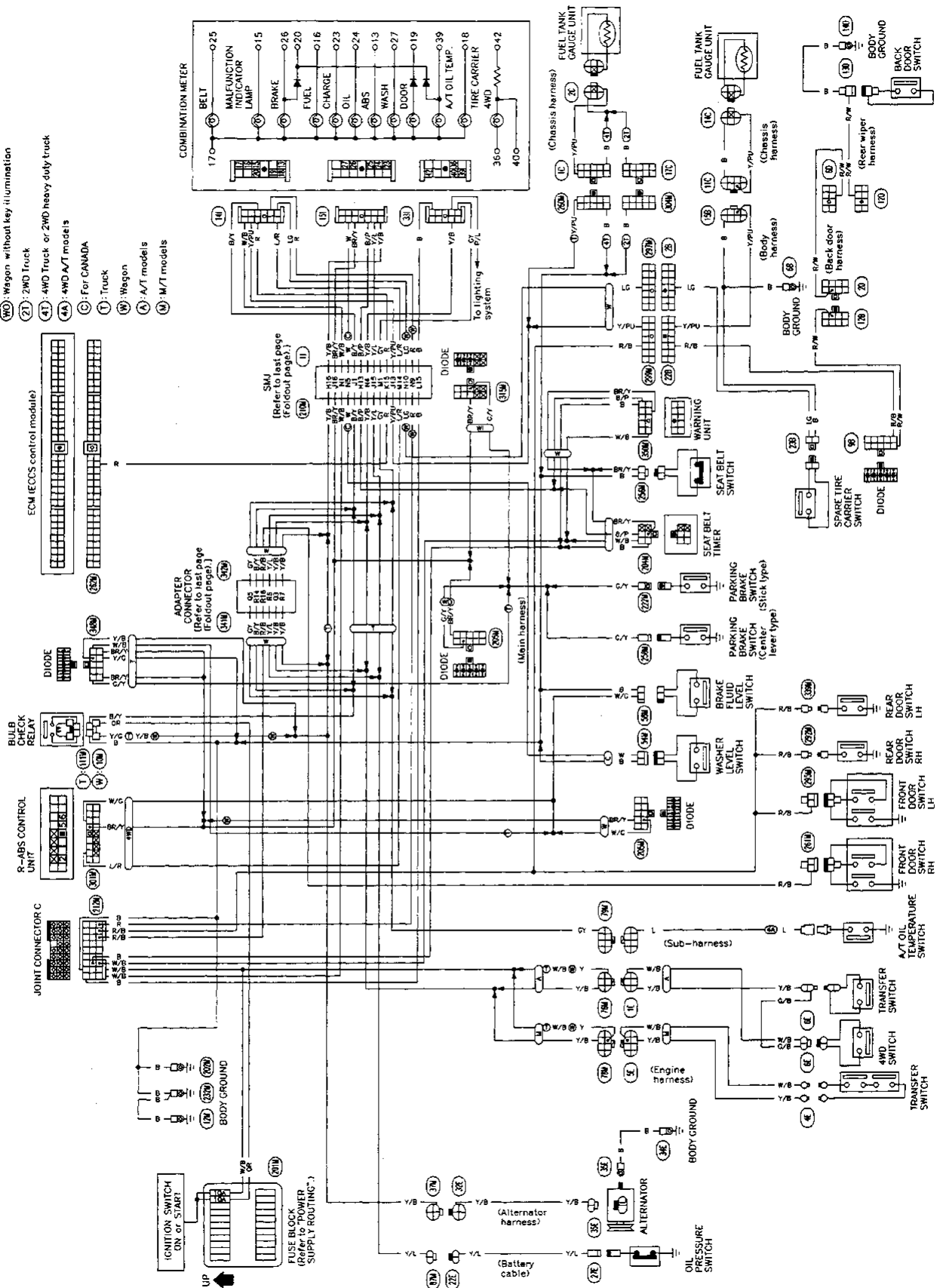


# WARNING LAMPS AND CHIME

## Warning Lamps/Wiring Diagram

### VG30E ENGINE MODEL

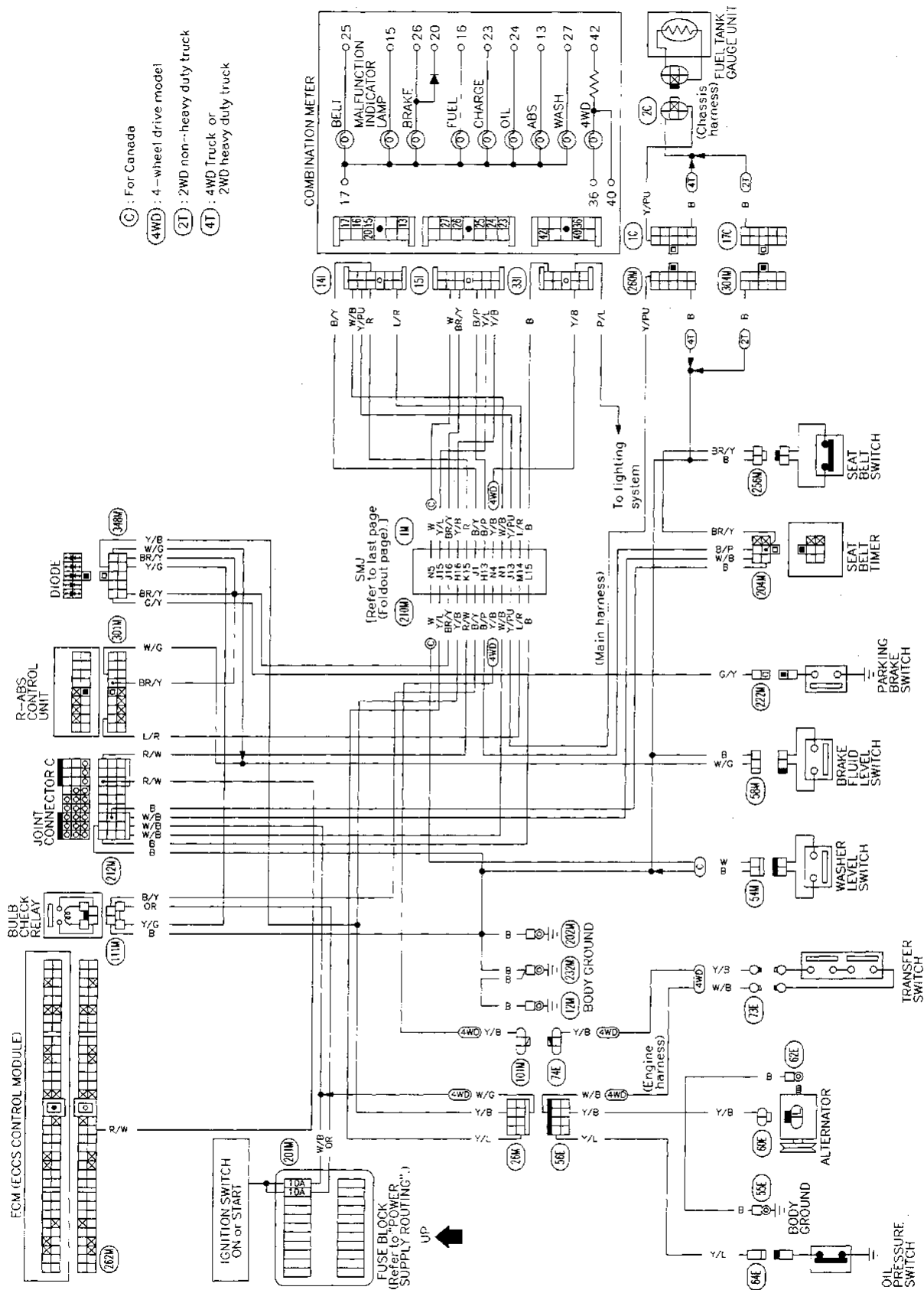
- (M) Wagon with key illumination
- (20) Wagon without key illumination
- (21) 2WD Truck
- (41) 4WD Truck or 2WD heavy duty truck
- (4A) 4WD A/T models
- (C) For CANADA
- (1) Truck
- (W) Wagon
- (A) A/T models
- (M) M/T models



# WARNING LAMPS AND CHIME

## Warning Lamps/Wiring Diagram (Cont'd)

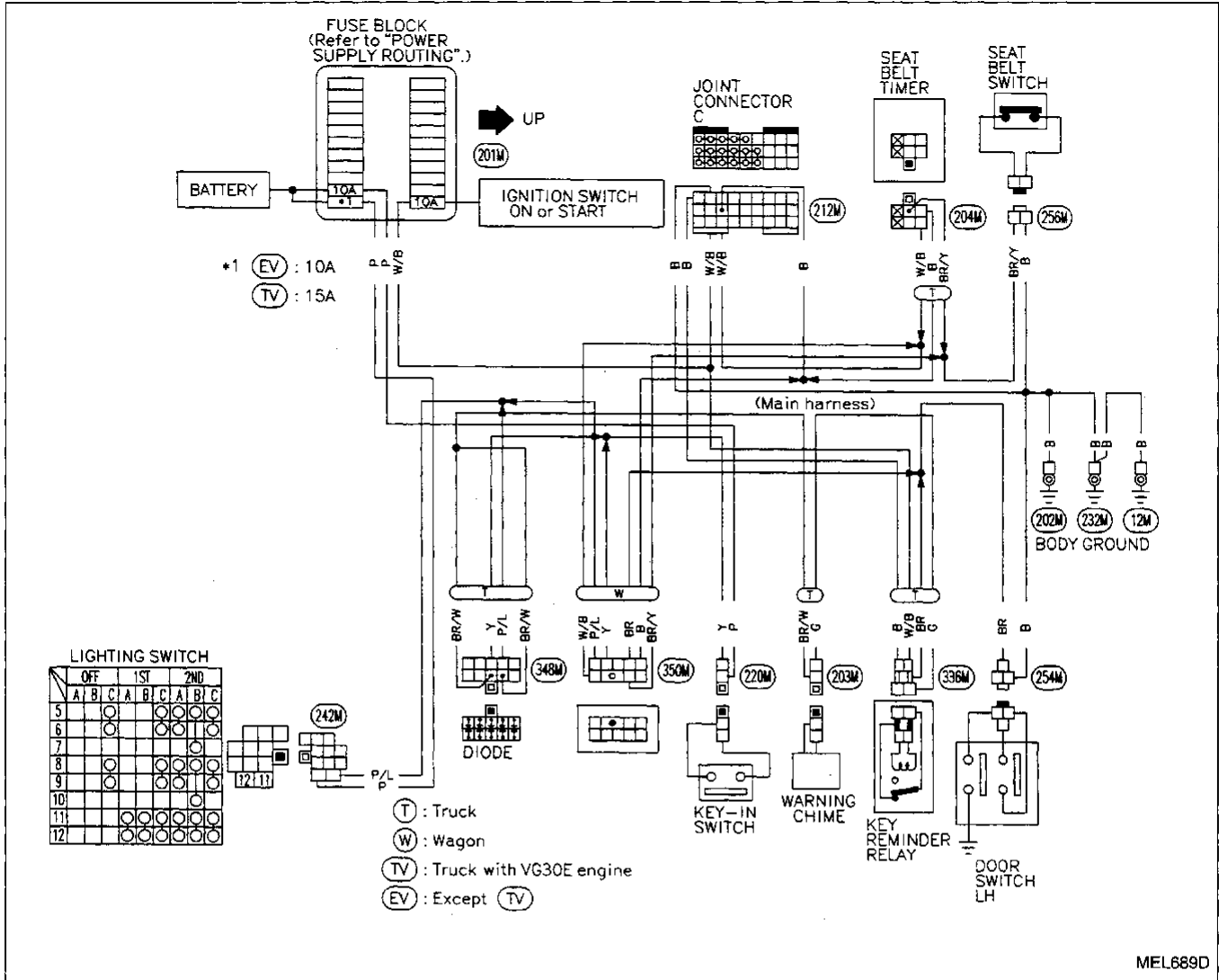
### KA24E ENGINE MODEL



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# WARNING LAMPS AND CHIME

## Warning Chime/Wiring Diagram

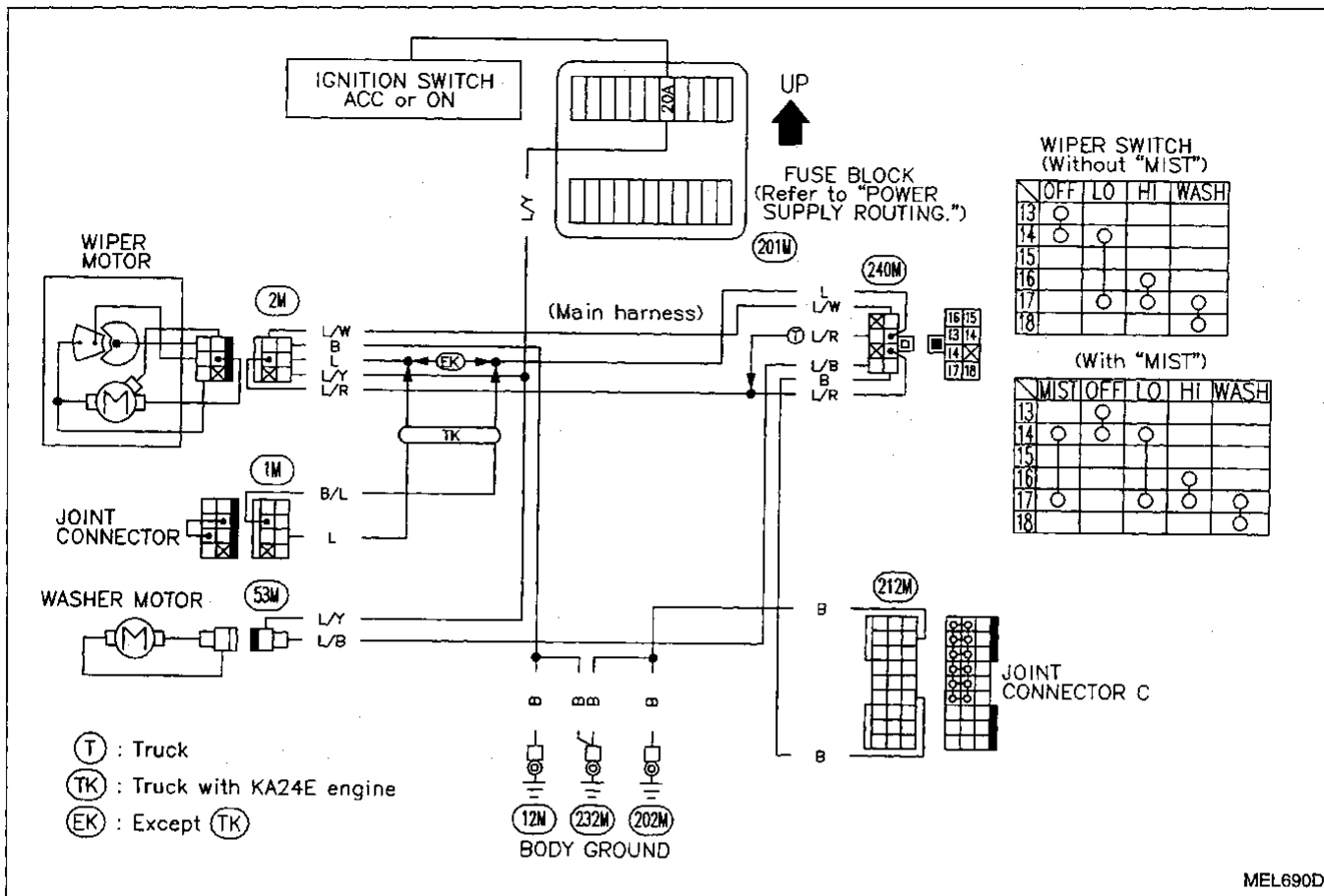


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# WIPER AND WASHER

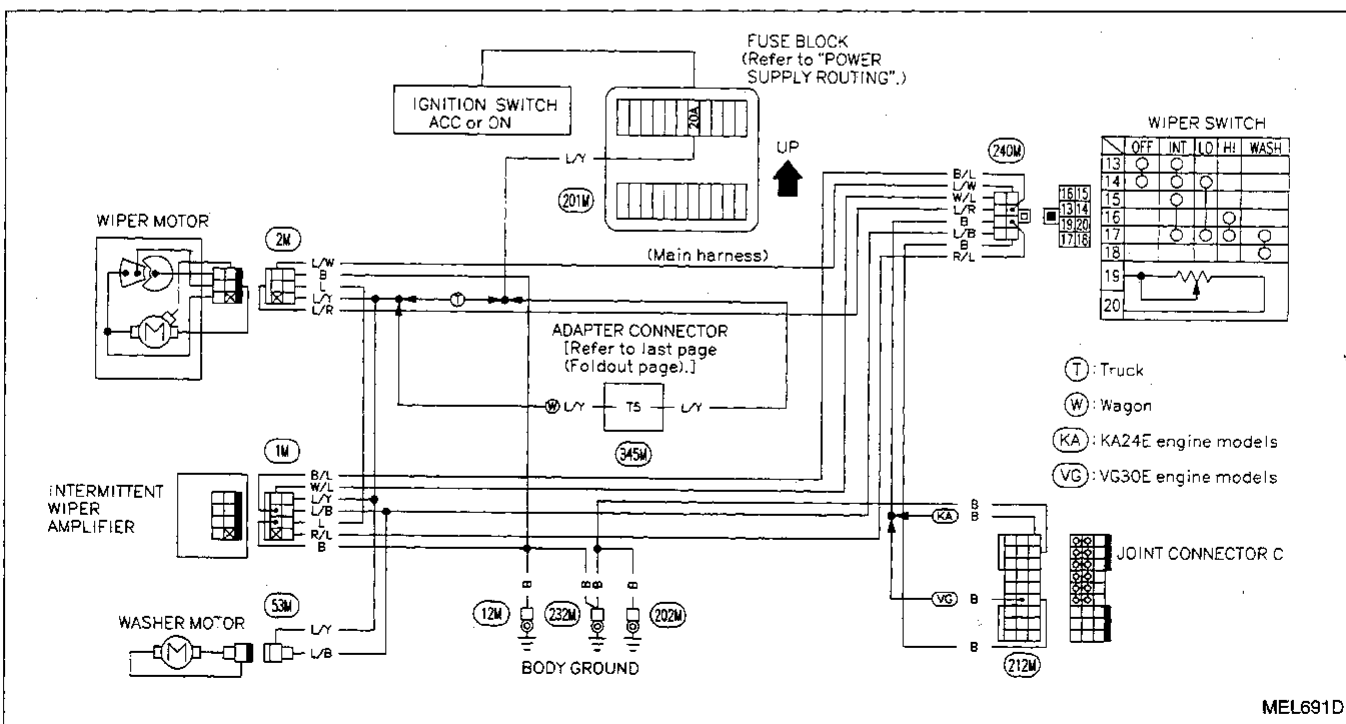
## Front Wiper and Washer/Wiring Diagram

### WITHOUT INTERMITTENT WIPER



MEL690D

### WITH INTERMITTENT WIPER

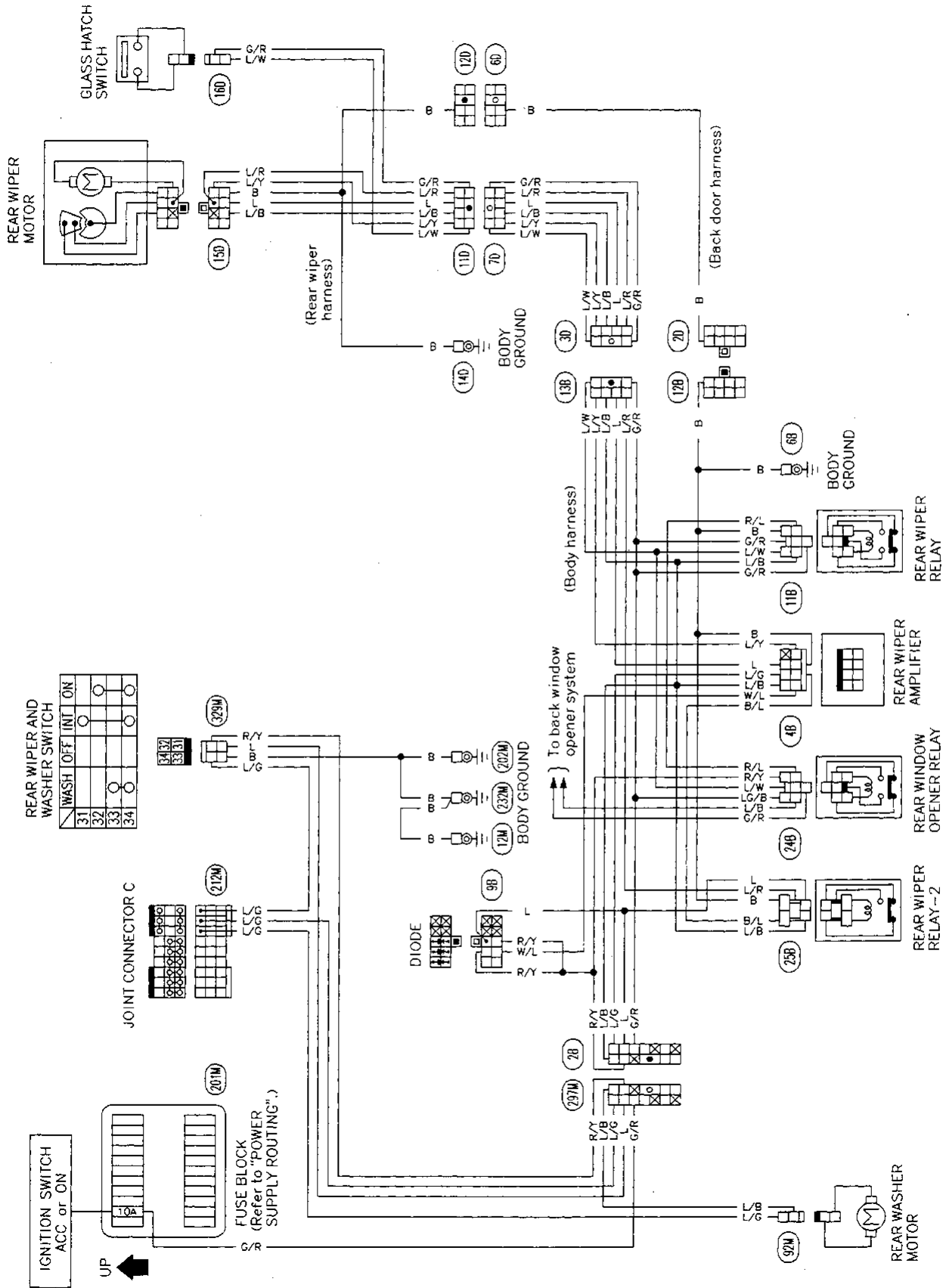


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# WIPER AND WASHER

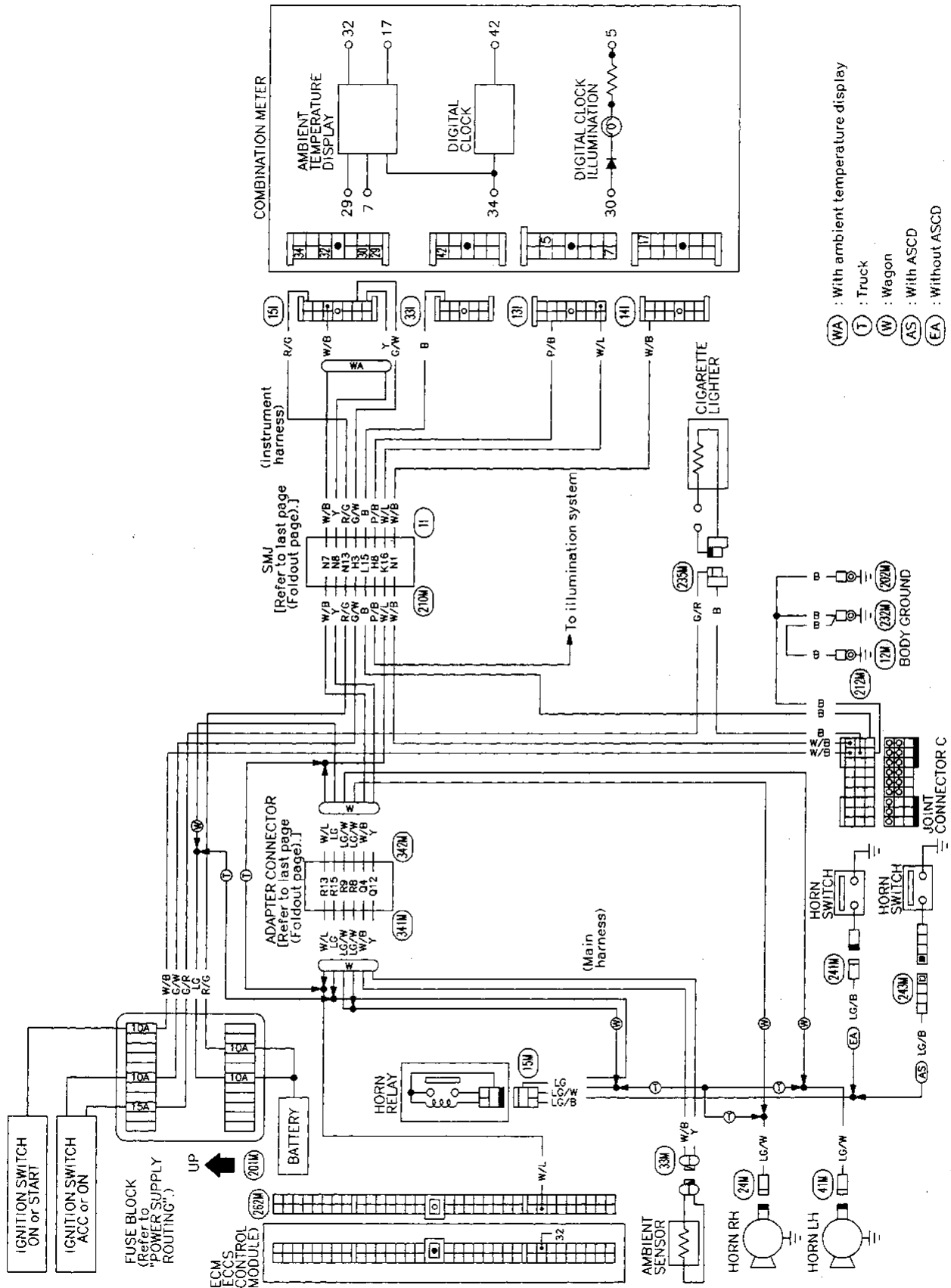
## Rear Wiper and Washer/Wiring Diagram



MEL692D

# HORN, CIGARETTE LIGHTER, CLOCK

## Wiring Diagram



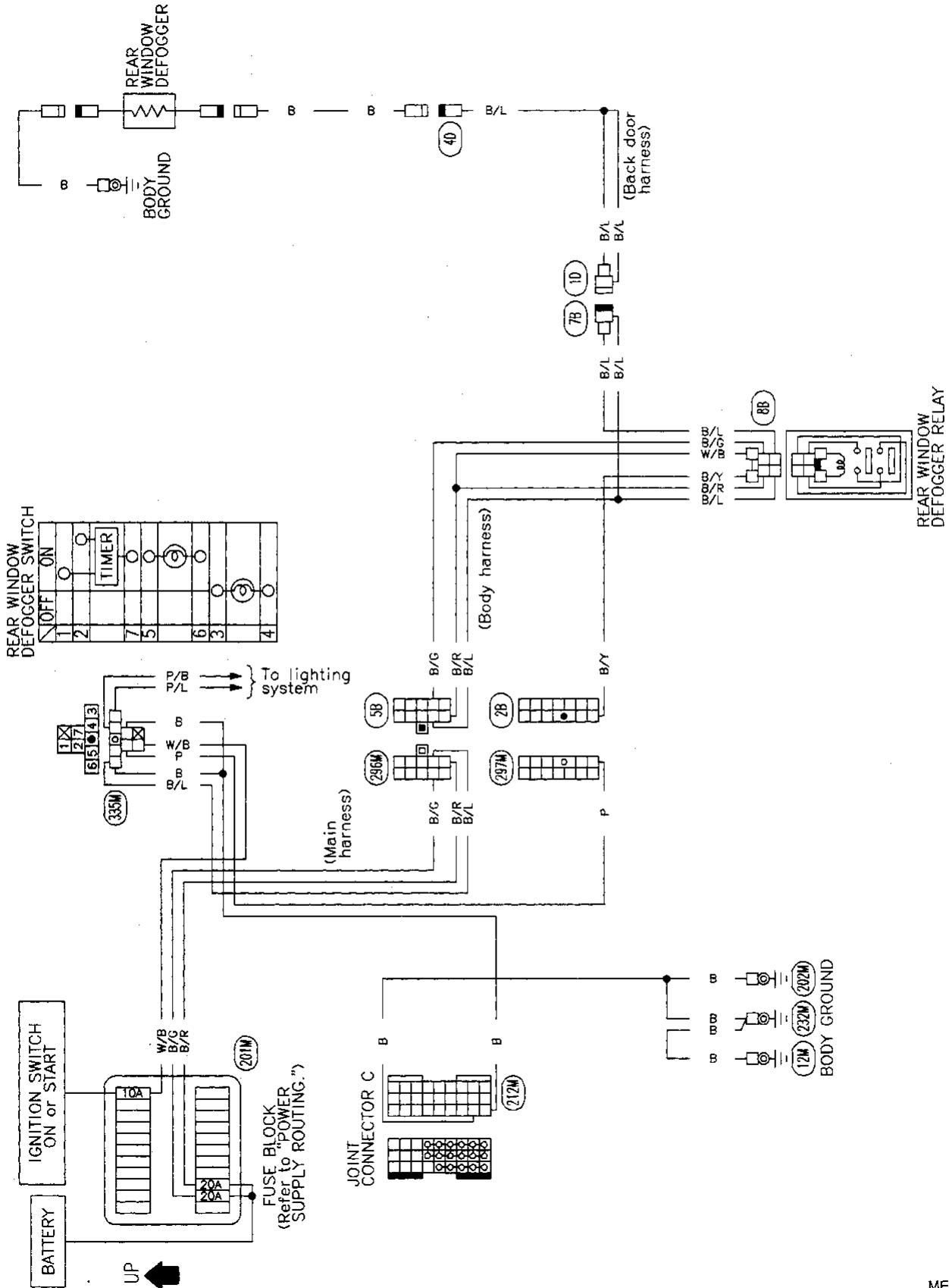
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# REAR WINDOW DEFOGGER

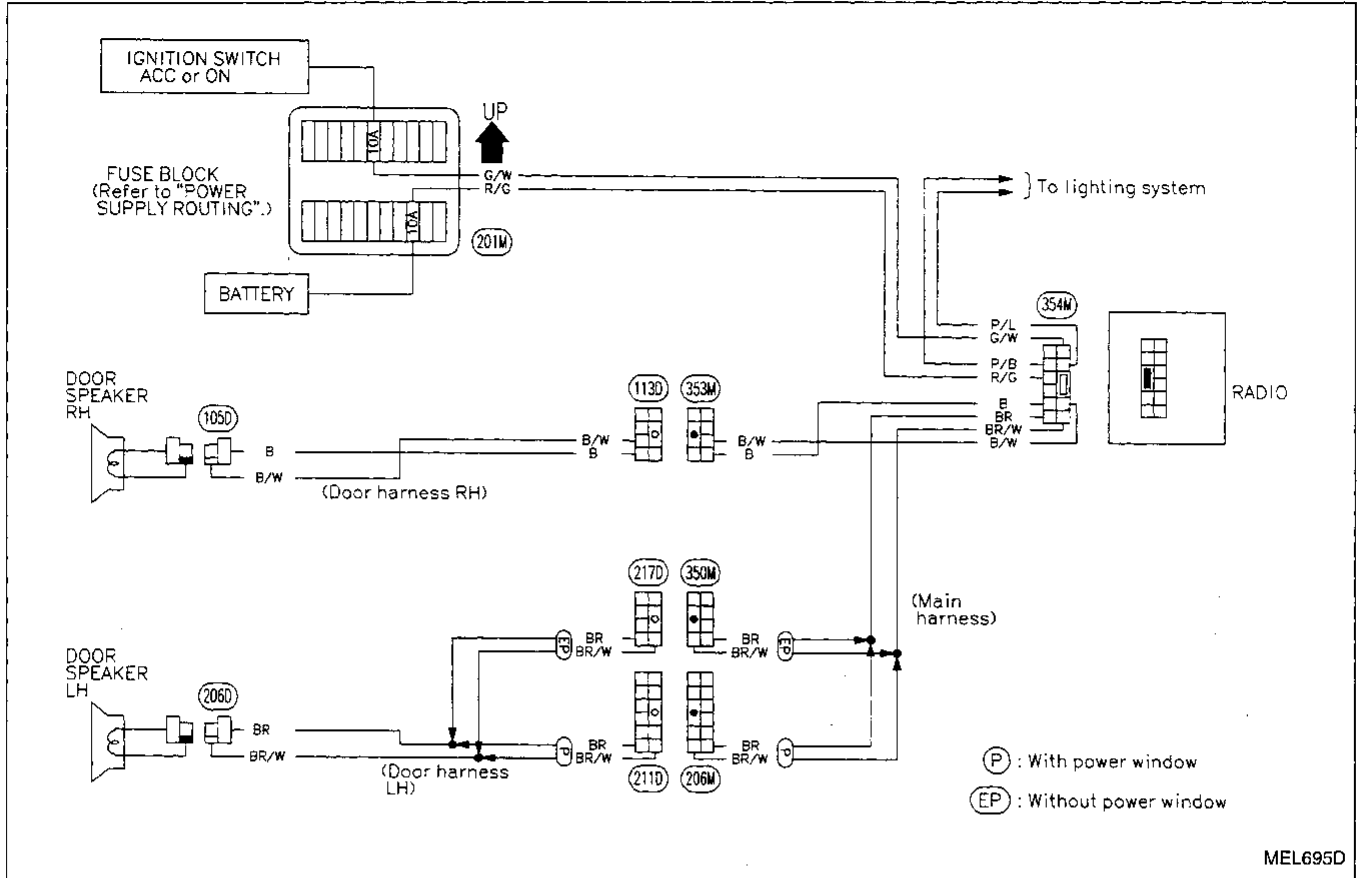
## Wiring Diagram

### WAGON MODEL

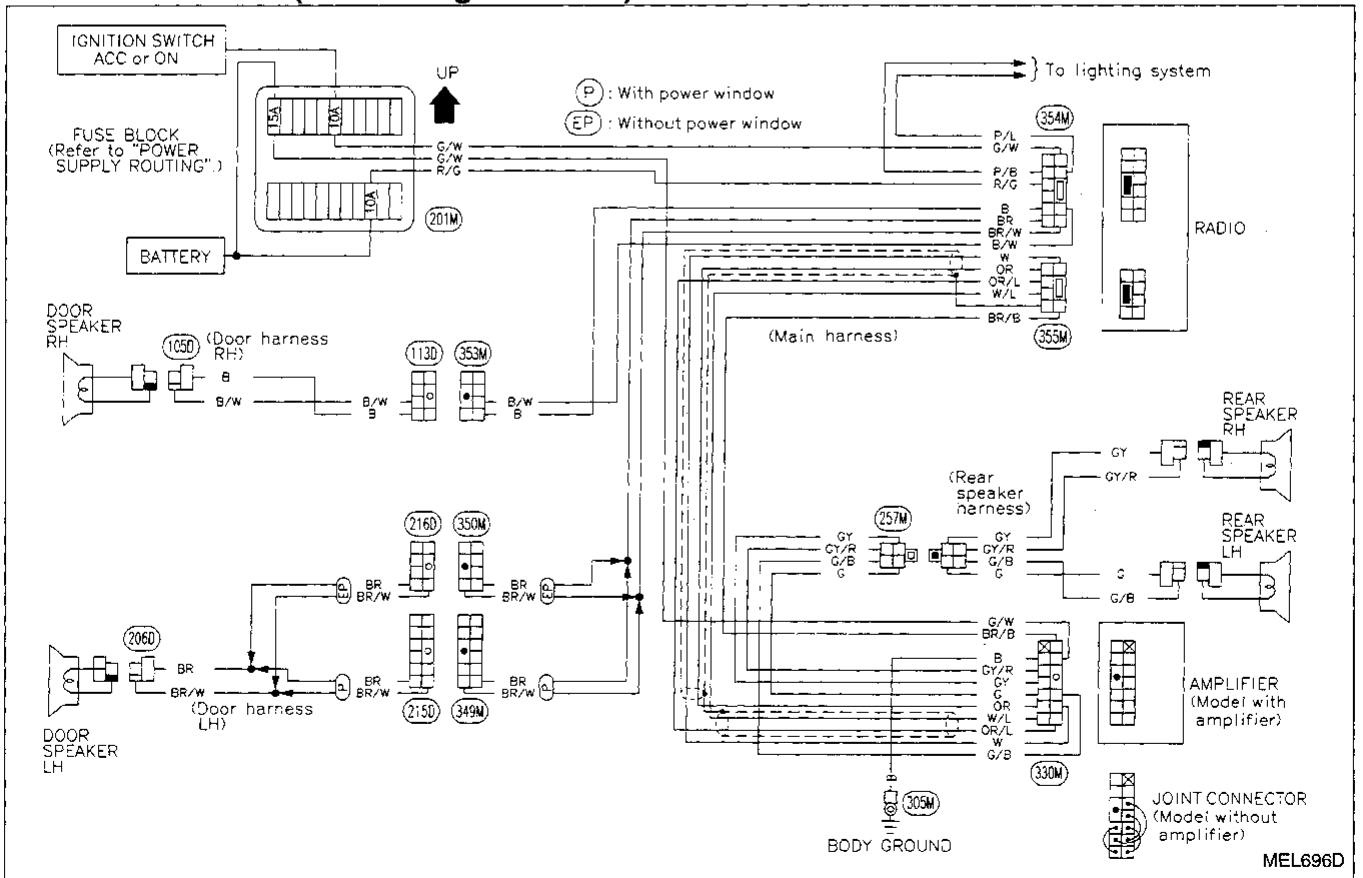


Audio/Wiring Diagram

2 SPEAKER TYPE



4 SPEAKER TYPE (VG30E engine model)

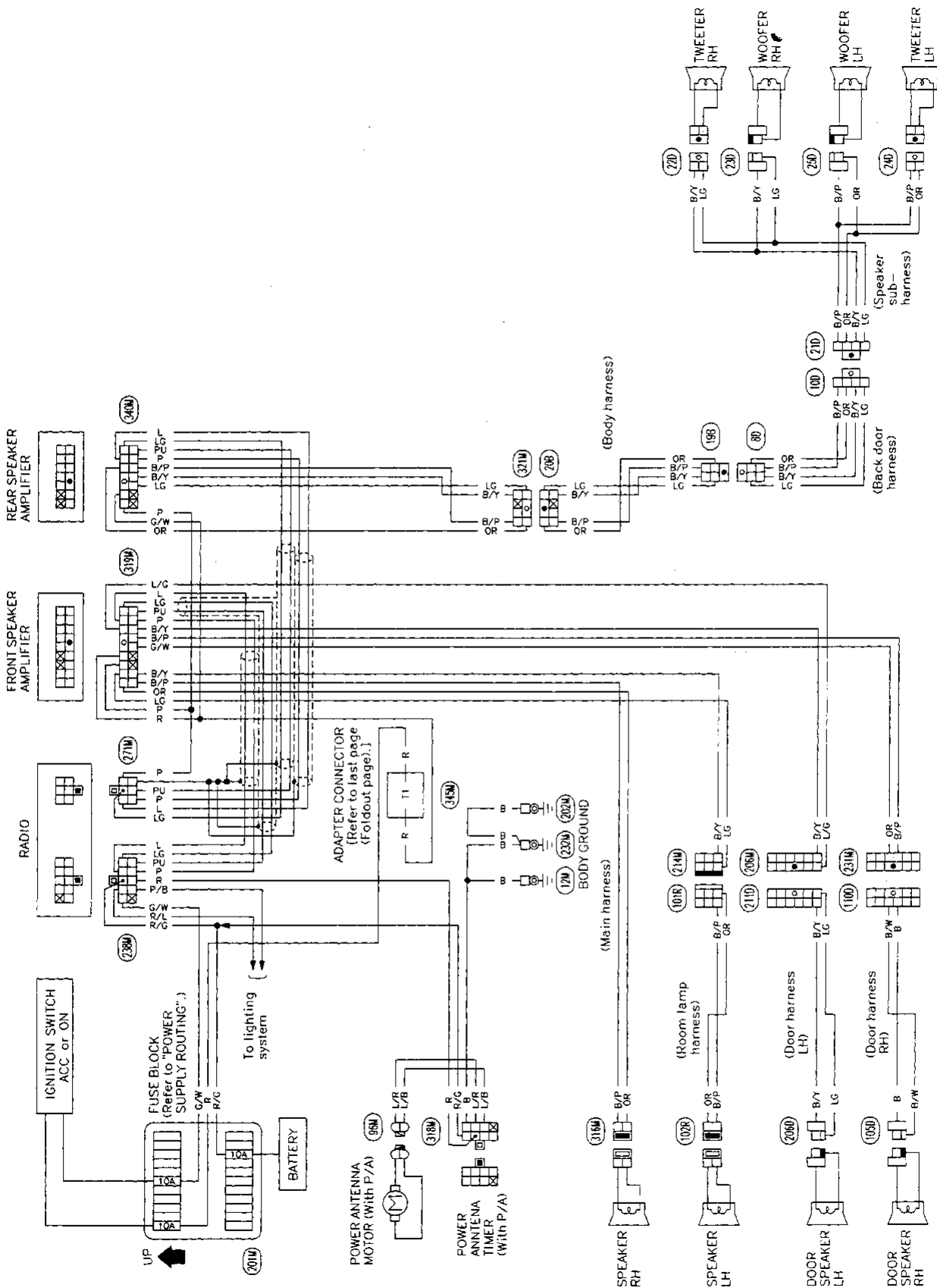


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# AUDIO

## Audio/Wiring Diagram (Cont'd)

**6 OR 8 SPEAKER TYPE**

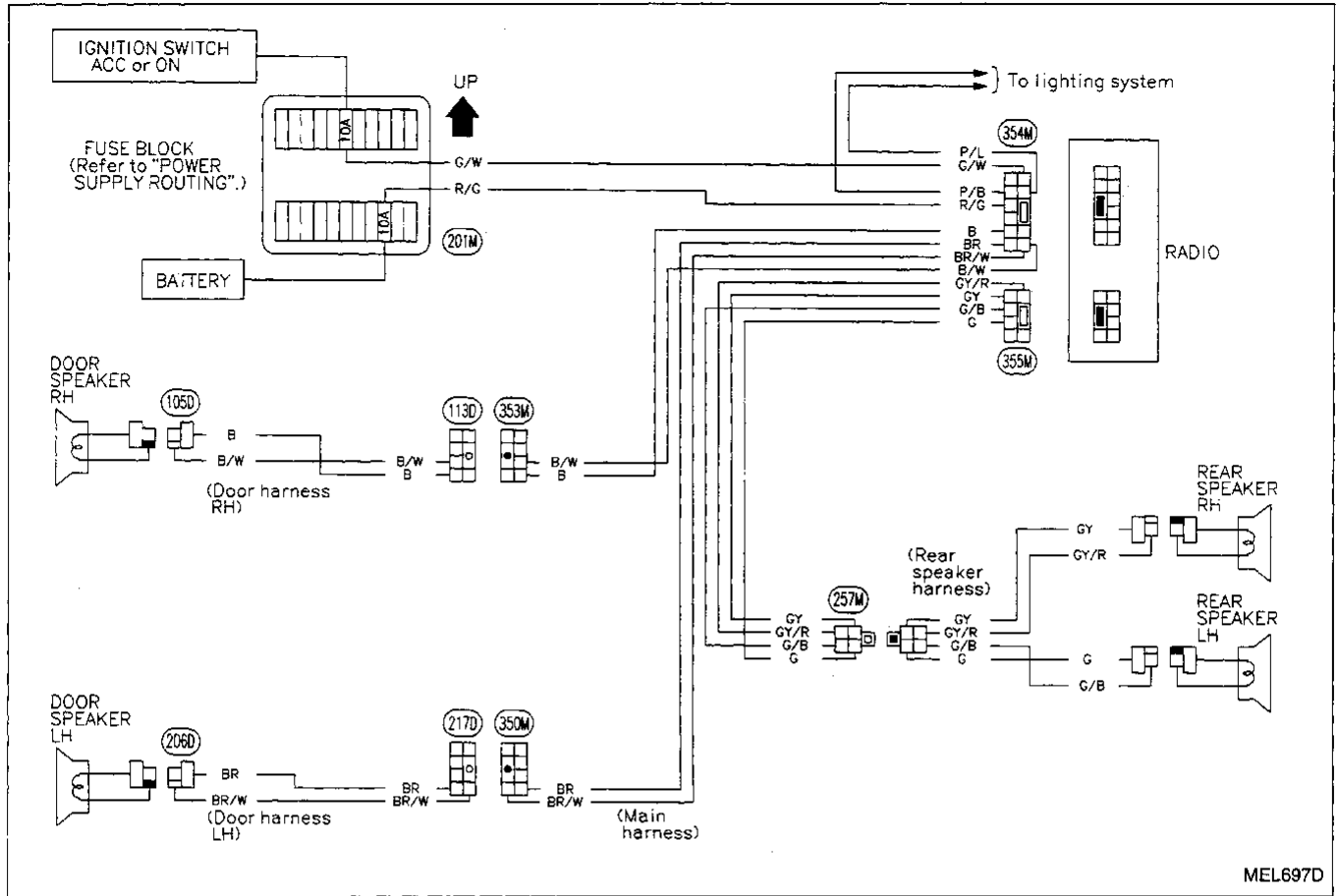


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# AUDIO

## Audio/Wiring Diagram (Cont'd)

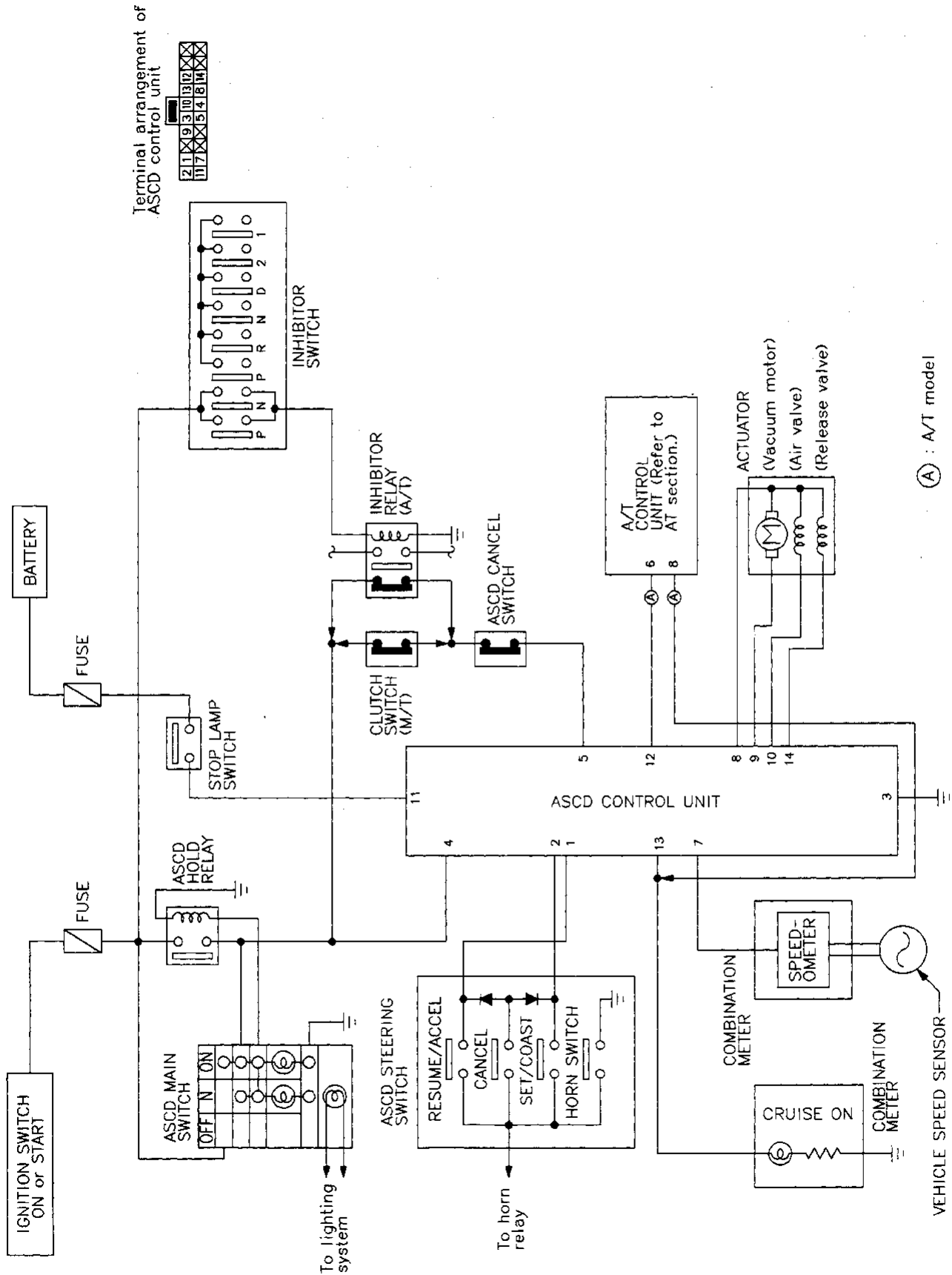
### 4 SPEAKER TYPE (KA24E engine model)



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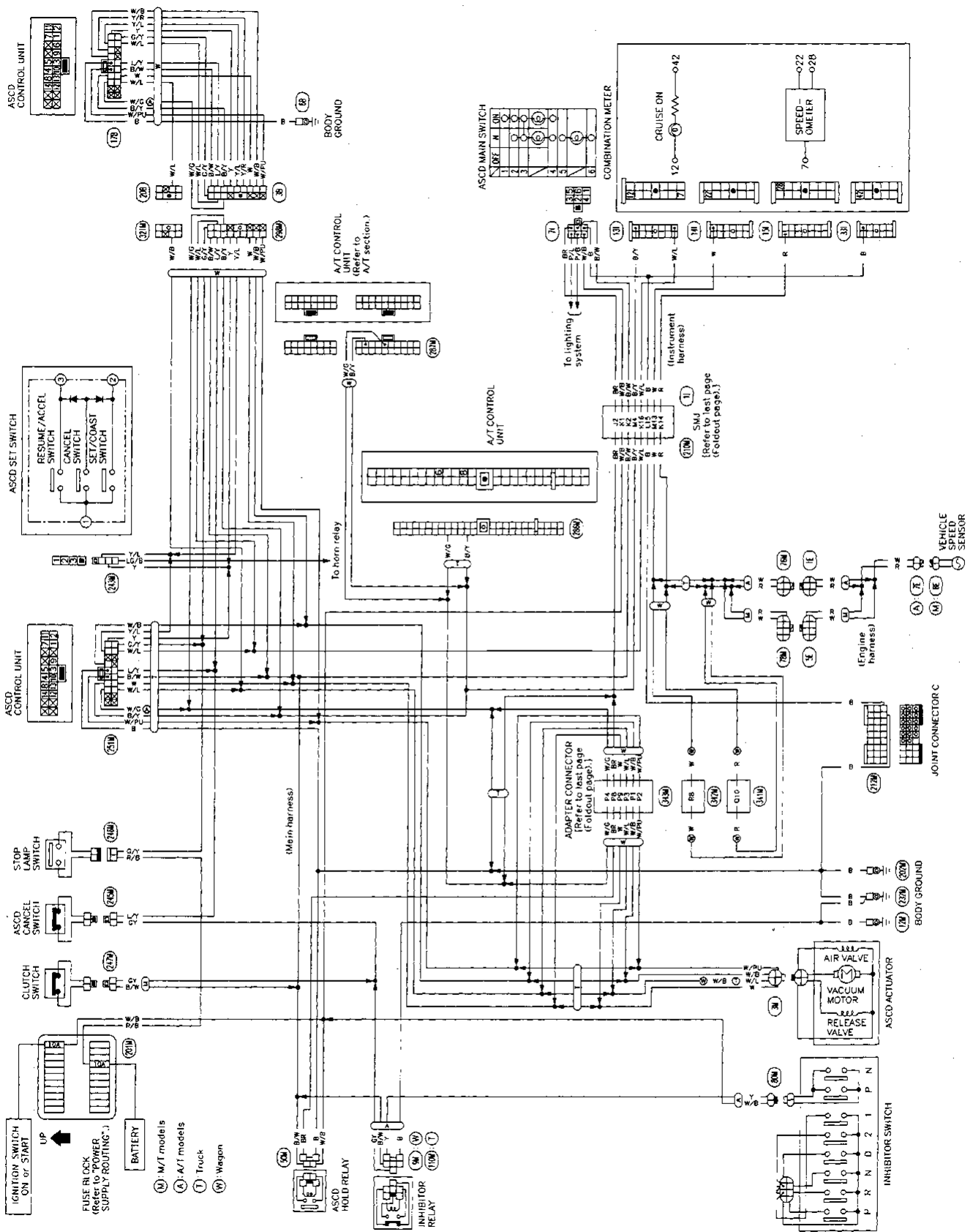
# AUTOMATIC SPEED CONTROL DEVICE (ASCD)

## Schematic



# AUTOMATIC SPEED CONTROL DEVICE (ASCD)

## Wiring Diagram

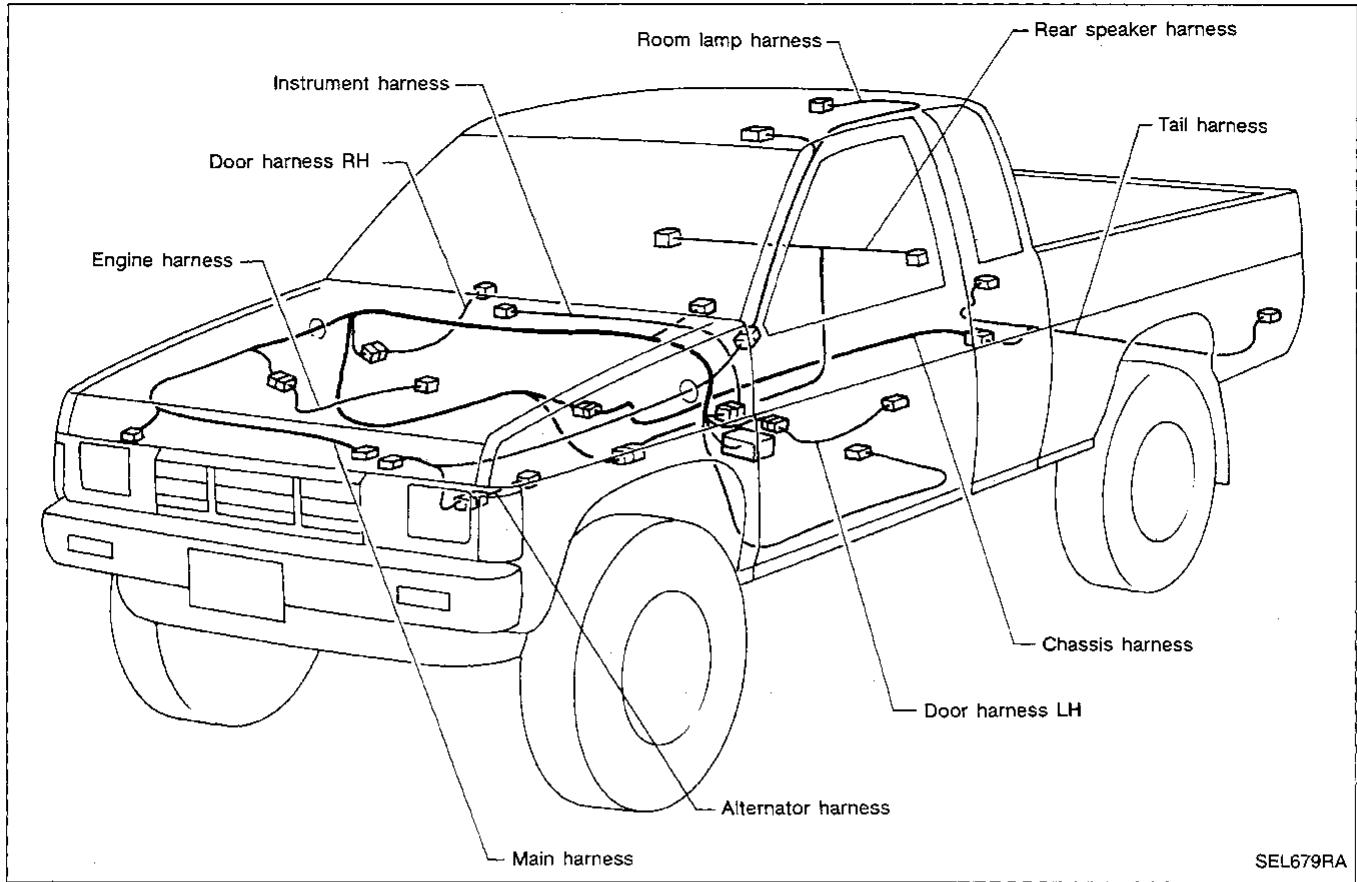


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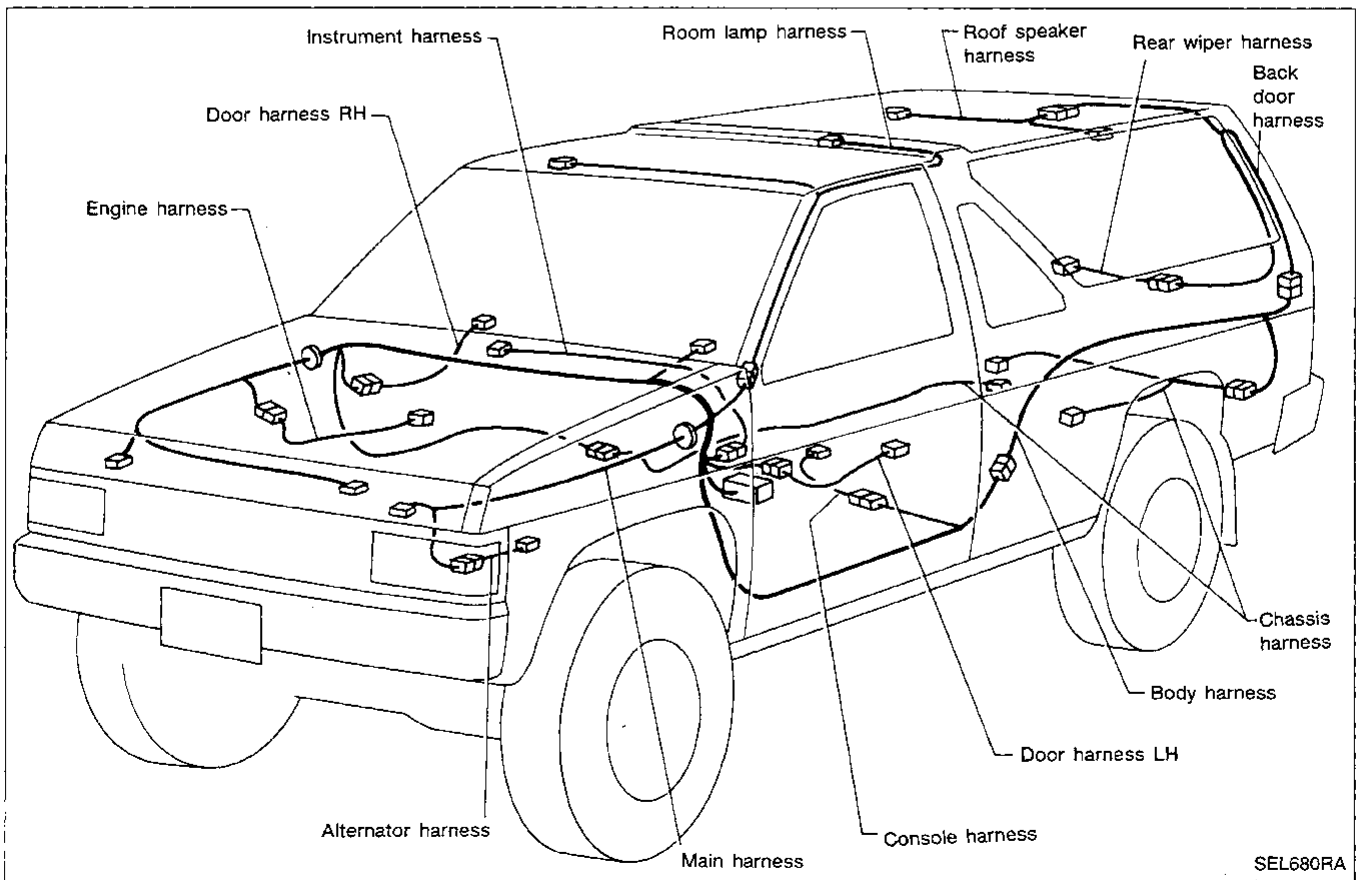
# HARNES LAYOUT

## Outline

### TRUCK MODEL



### WAGON MODEL



# HARNES LAYOUT

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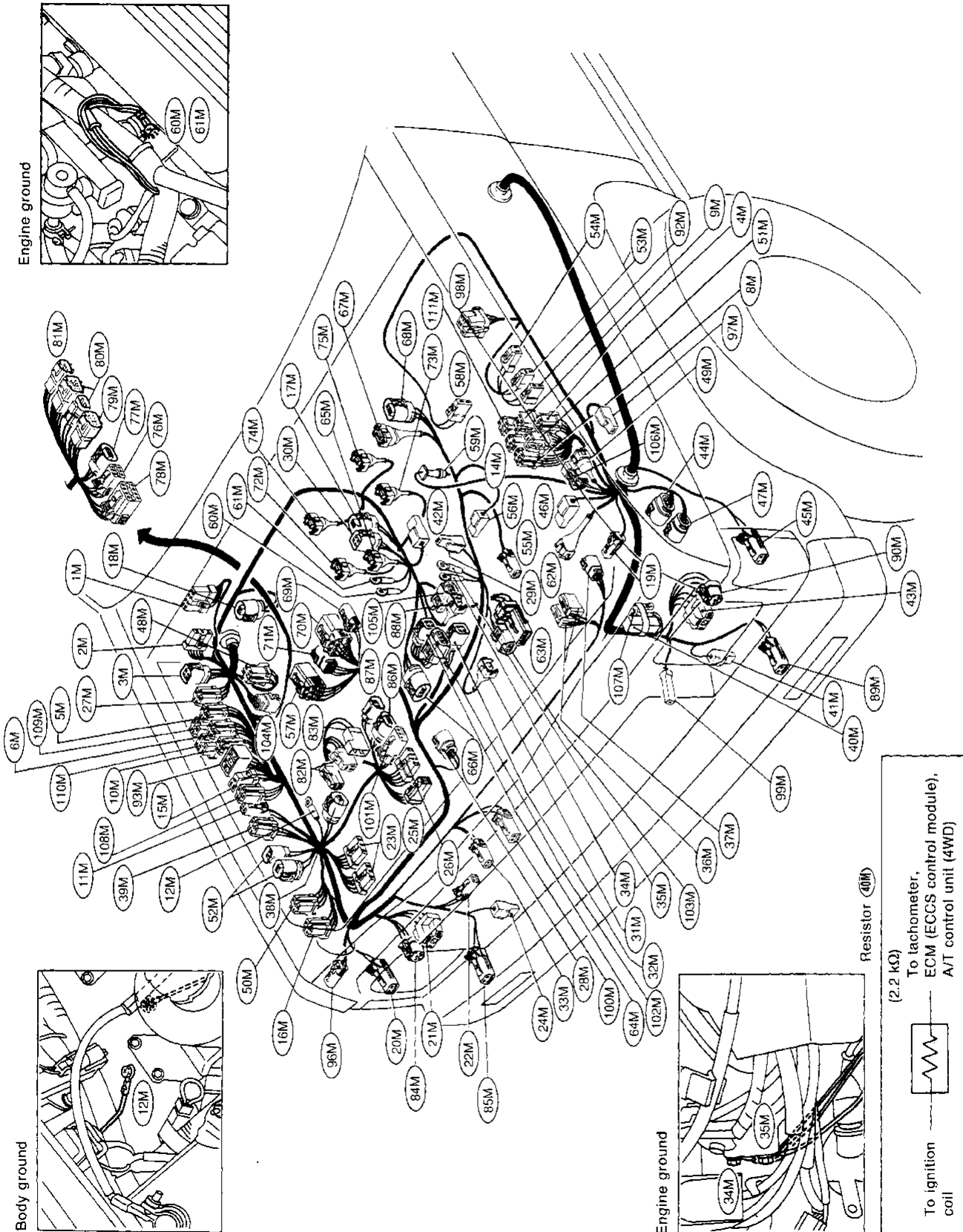
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# HARNESS LAYOUT


## Main Harness



Engine ground

Body ground

Engine ground

 Resistor (40M)  
 (2.2 kΩ)  
 To tachometer,  
 ECM (ECCS control module),  
 A/T control unit (4WD)

 To ignition coil

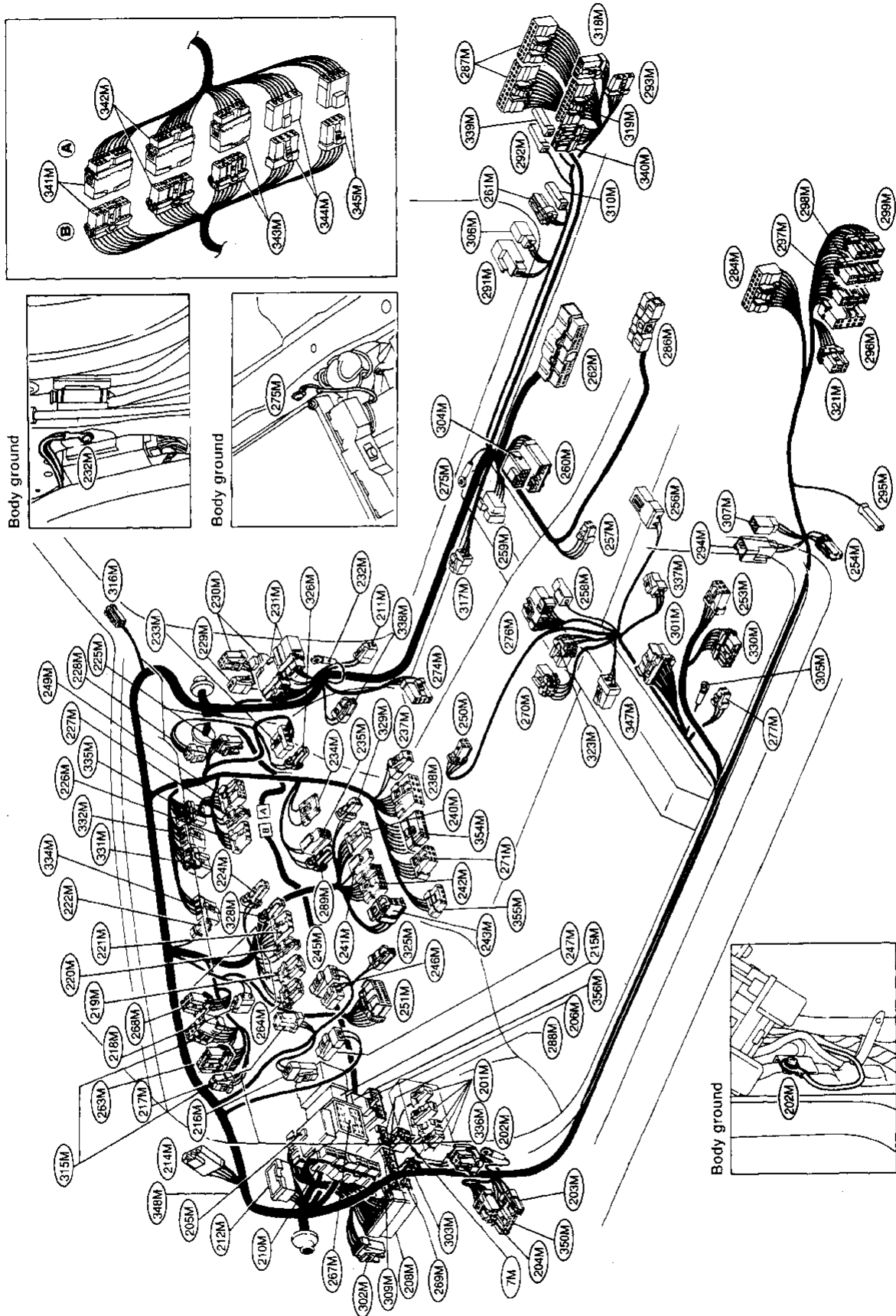
# HARNES LAYOUT

## Main Harness (Cont'd)

<p>(1M) : Intermittent wiper amplifier</p> <p>(2M) : Wiper motor</p> <p>(3M) : ASCD actuator (VG30E engine model with ASCD)</p> <p>(4M) : Park/Neutral position relay (VG30E engine A/T model)</p> <p>(5M) : Fuel pump relay</p> <p>(6M) : ECCS relay</p> <p>(8M) : Inhibitor relay (Wagon A/T model without ASCD)</p> <p>(9M) : Inhibitor relay (Wagon A/T model with ASCD)</p> <p>(10M) : Bulb check relay (Wagon)</p> <p>(11M) : Dropping resistor (VG30E engine A/T model)</p> <p>(12M) : Body ground</p> <p>(14M) : Interlock emergency relay (Wagon)</p> <p>(15M) : Horn relay</p> <p>(16M) : Park/Neutral position relay (KA24E engine A/T model)</p> <p>(17M) : EGR temperature sensor (KA24E engine model)</p> <p>(18M) : Intake air temperature sensor (KA24E engine model)</p> <p>(19M) : Compressor (KA24E engine model)</p> <p>(20M) : Clearance lamp RH</p> <p>(21M) : Headlamp RH (Truck)</p> <p>(22M) : Low-pressure switch</p> <p>(23M) : Daytime light control unit (For Canada)</p> <p>(24M) : Horn RH (VG30E engine model)</p> <p>(25M) : To (58E) (KA24E engine model)</p> <p>(26M) : To (58E) (KA24E engine model)</p> <p>(27M) : Blower relay</p> <p>(28M) : Power steering oil pressure switch (VG30E engine model)</p> <p>(29M) : Thermal transmitter (VG30E engine model)</p> <p>(30M) : Camshaft position sensor (KA24E engine model)</p> <p>(32M) : Camshaft position sensor (VG30E engine model)</p> <p>(31M) : Engine coolant temperature sensor (VG30E engine model)</p> <p>(33M) : Ambient sensor (Wagon)</p> <p>(34M) : Engine ground (VG30E engine model)</p> <p>(35M) : Engine ground (VG30E engine model)</p> <p>(36M) : To (32E) (VG30E engine model)</p> <p>(37M) : To (32E) (VG30E engine model)</p> <p>(38M) : To (57E) (KA24E engine model)</p> <p>(39M) : Auto amplifier relay (Wagon)</p> <p>(40M) : Resistor (KA24E engine model)</p> <p>(41M) : Horn LH</p> <p>(42M) : Thermal transmitter (KA24E engine model)</p>	<p>(43M) : Headlamp LH (Truck)</p> <p>(44M) : Power transistor (KA24E engine model)</p> <p>(45M) : Clearance lamp LH</p> <p>(46M) : Distributor (KA24E engine model)</p> <p>(47M) : Ignition coil (KA24E engine model)</p> <p>(48M) : Air conditioner relay</p> <p>(49M) : PAIRC-solenoid valve (KA24E engine model)</p> <p>(50M) : ASCD hold relay (With ASCD)</p> <p>(51M) : A/T indicator relay</p> <p>(52M) : Interlock relay (Wagon M/T model for U.S.A.)</p> <p>(53M) : Washer motor</p> <p>(54M) : Washer level switch</p> <p>(55M) : Compressor (VG30E engine model)</p> <p>(56M) : Distributor (VG30E engine model)</p> <p>(57M) : To (10E) (VG30E engine model)</p> <p>(58M) : Brake fluid level switch</p> <p>(59M) : Heated oxygen sensor (KA24E engine model)</p> <p>(60M) : Engine ground (KA24E engine model)</p> <p>(61M) : Engine ground (KA24E engine model)</p> <p>(62M) : Mass air flow sensor (VG30E engine model)</p> <p>(63M) : Mass air flow sensor (KA24E engine model)</p> <p>(64M) : IACV-AAC, FICD valve (KA24E engine model)</p> <p>(65M) : Water temperature sensor (KA24E engine model)</p> <p>(66M) : Throttle position sensor (KA24E engine model)</p> <p>(67M) : Closed throttle position switch (VG30E engine model)</p> <p>(68M) : Throttle position sensor (VG30E engine model)</p> <p>(69M) : To (10E) (VG30E engine model)</p> <p>(70M) : To (10E) (VG30E engine model)</p> <p>(71M) : To (10E) (VG30E engine model)</p> <p>(72M) : Injector No. 1 (KA24E engine model)</p> <p>(73M) : Injector No. 2 (KA24E engine model)</p> <p>(74M) : Injector No. 3 (KA24E engine model)</p> <p>(75M) : Injector No. 4 (KA24E engine model)</p> <p>(76M) : To (1E) (VG30E engine A/T model)</p> <p>(77M) : Heated oxygen sensor (VG30E engine model)</p> <p>(78M) : To (5E) (VG30E engine M/T model)</p> <p>(79M) : To sub-harness (VG30E engine A/T model)</p> <p>(80M) : Inhibitor switch (A/T model)</p> <p>(81M) : Revolution sensor (VG30E engine A/T model), Torque converter clutch solenoid valve (KA24E engine A/T model)</p> <p>(82M) : Fusible link</p> <p>(83M) : Fusible link (VG30E engine model)</p> <p>(84M) : Headlamp RH (Wagon)</p>	<p>(85M) : Front turn signal lamp RH</p> <p>(86M) : To (23E) (Wagon)</p> <p>(87M) : To (22E) (VG30E engine model)</p> <p>(88M) : EGRC-solenoid valve</p> <p>(89M) : Front turn signal lamp LH</p> <p>(90M) : Headlamp LH (Wagon)</p> <p>(92M) : Rear washer motor (Wagon)</p> <p>(93M) : Fuse block (Wagon)</p> <p>(96M) : Power antenna motor (Wagon)</p> <p>(97M) : Ignition coil (KA24E engine model)</p> <p>(98M) : Daytime light cancel relay (For Canada)</p> <p>(99M) : To fog lamp (VG30E engine 4WD Truck)</p> <p>(100M) : Ambient sensor (Wagon)</p> <p>(101M) : To (74E) (KA24E engine model)</p> <p>(102M) : Closed throttle position switch (KA24E engine model)</p> <p>(103M) : Canister control solenoid valve (KA24E engine model)</p> <p>(104M) : Canister purge control valve (KA24E engine model)</p> <p>(105M) : EGRC-solenoid valve (KA24E engine model)</p> <p>(106M) : PAIRC-solenoid valve (KA24E engine model)</p> <p>(107M) : Condenser (KA24E engine model)</p> <p>(108M) : Interlock relay (Truck M/T model for U.S.A.)</p> <p>(109M) : Inhibitor relay (Truck A/T model without ASCD)</p> <p>(110M) : Inhibitor relay (Truck A/T model with ASCD)</p> <p>(111M) : Bulb check relay (Truck)</p>	<p>CI</p> <p>MA</p> <p>EM</p> <p>LC</p> <p>EF</p> <p>EC</p> <p>FE</p> <p>CL</p> <p>MT</p> <p>AT</p> <p>TF</p> <p>PD</p> <p>FA</p> <p>RA</p> <p>BR</p> <p>ST</p> <p>BF</p> <p>HA</p> <p>EL</p> <p>IDX</p>
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# HARNESS LAYOUT

## Main Harness (Cont'd)



# HARNES LAYOUT

## Main Harness (Cont'd)

<p>201M : Fuse block</p> <p>202M : Body ground</p> <p>203M : Warning chime (Truck)</p> <p>204M : Seat belt timer</p> <p>205M : Diode (Wagon)</p> <p>206M : To 201D (Truck)</p> <p>207M : To 211D (Wagon)</p> <p>208M : Check connector</p> <p>210M : To 11 (SMJ) (VG30E engine model)</p> <p>211M : Circuit breaker (VG30E engine model)</p> <p>212M : Joint connector C</p> <p>214M : To 1R (Truck)</p> <p>214M : To 101R (Wagon)</p> <p>215M : Diode (VG30E engine A/T model)</p> <p>216M : Clutch interlock switch (M/T model for U.S.A.)</p> <p>217M : Combination flasher unit</p> <p>218M : Kickdown switch (VG30E engine A/T model)</p> <p>219M : A/T indicator illumination (KA24E engine column shift model)</p> <p>220M : Key-in switch</p> <p>221M : Ignition switch</p> <p>222M : Parking brake switch (Stick type) (Truck)</p> <p>224M : Overdrive control switch (KA24E engine model)</p> <p>225M : Air conditioner switch</p> <p>226M : Fan switch</p> <p>227M : Heater illumination</p> <p>228M : Thermo control amplifier</p> <p>229M : Blower motor</p> <p>230M : To 102D (VG30E engine Truck)</p> <p>230M : To 111D (Wagon)</p> <p>231M : To 101D (Truck)</p> <p>231M : To 110D (Wagon)</p> <p>232M : Body ground</p> <p>233M : Resistor</p> <p>234M : Ash tray illumination</p> <p>235M : Cigarette lighter</p> <p>237M : Audio illumination (Wagon)</p> <p>238M : Radio (6- or 8-speaker type)</p> <p>240M : Wiper switch</p> <p>241M : Horn switch</p> <p>242M : Lighting switch</p> <p>243M : ASCD switch (VG30E engine model with ASCD)</p> <p>245M : ASCD cancel switch (VG30E engine model with ASCD)</p> <p>246M : Stop lamp switch</p> <p>247M : ASCD clutch switch (VG30E engine M/T model with ASCD)</p>	<p>249M : Air conditioner sub-harness (Wagon)</p> <p>250M : Overdrive control switch and A/T indicator lamp (A/T model with floor shift)</p> <p>251M : ASCD control unit (VE30E engine Truck with ASCD)</p> <p>253M : Door lock timer (VG30E engine Truck)</p> <p>254M : Front door switch LH</p> <p>255M : Seat belt switch</p> <p>257M : To rear speaker harness (VG30E engine Truck)</p> <p>258M : Parking brake switch (Center lever type)</p> <p>259M : Joint connector A</p> <p>260M : To 1C (Truck)</p> <p>261M : Front door switch RH (Wagon)</p> <p>262M : ECM (ECCS control module)</p> <p>263M : Shift lock unit (A/T model)</p> <p>264M : Key solenoid (VG30E engine Truck A/T model)</p> <p>267M : To 23 (KA24E engine model)</p> <p>268M : Shift lock solenoid (A/T model with column shift)</p> <p>269M : To 213D (Wagon)</p> <p>270M : Shift lock solenoid (A/T model with floor shift)</p> <p>271M : Audio amplifier (6- or 8-speaker type)</p> <p>274M : Power window amplifier (VG30E engine model)</p> <p>275M : Body ground</p> <p>276M : To console harness (VG30E engine Wagon)</p> <p>277M : Heating seat (VG30E engine Wagon)</p> <p>284M : ASCD control unit (VG30E engine Wagon)</p> <p>286M : A/T control unit (VG30E engine Truck A/T model)</p> <p>287M : A/T control unit (VG30E engine A/T model)</p> <p>288M : To 202D (VG30E engine model)</p> <p>289M : Cigarette lighter illumination</p> <p>291M : To 302D (Wagon)</p> <p>292M : Door switch (Wagon)</p> <p>293M : Rear combination lamp (Wagon)</p> <p>294M : To 402D (Wagon)</p> <p>295M : Door switch (Wagon)</p> <p>296M : To 5B (Wagon)</p> <p>297M : To 2B (Wagon)</p> <p>298M : To 3B (Wagon)</p> <p>299M : To 22B (Wagon)</p> <p>301M : R-ABS control unit</p> <p>302M : Check connector (For R-ABS)</p> <p>303M : Ignition relay No.2 (Without power window)</p> <p>304M : To 17E</p> <p>305M : Body ground</p> <p>306M : To 301D (Wagon)</p> <p>307M : To 401D (Wagon)</p>
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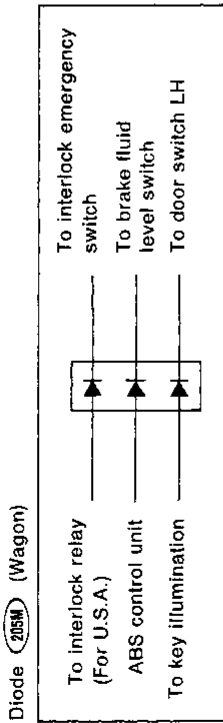
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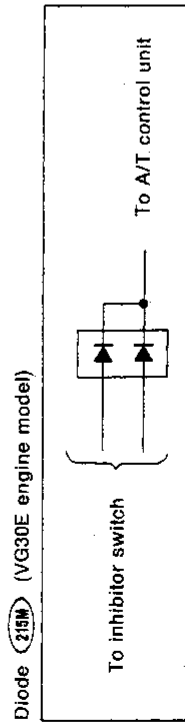
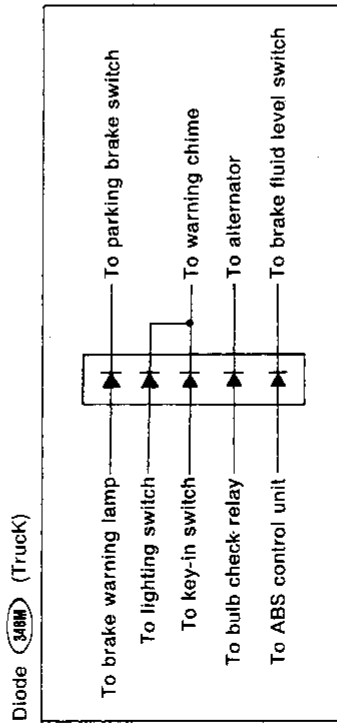
# HARNES LAYOUT

## Main Harness (Cont'd)

- 309M : To 212D (Wagon)
- 310M : Door switch RH (Truck 4WD model for Canada)



- 7M : Ignition relay No.2 (With power window)
- 315M : Diode (Wagon for Canada)
- 316M : Speaker RH (Wagon) (6- or 8-speaker type)
- 317M : Seat heater (Wagon)
- 318M : Power antenna timer (Wagon)
- 319M : Front speaker amplifier (Wagon)
- 321M : To 20B (Wagon)

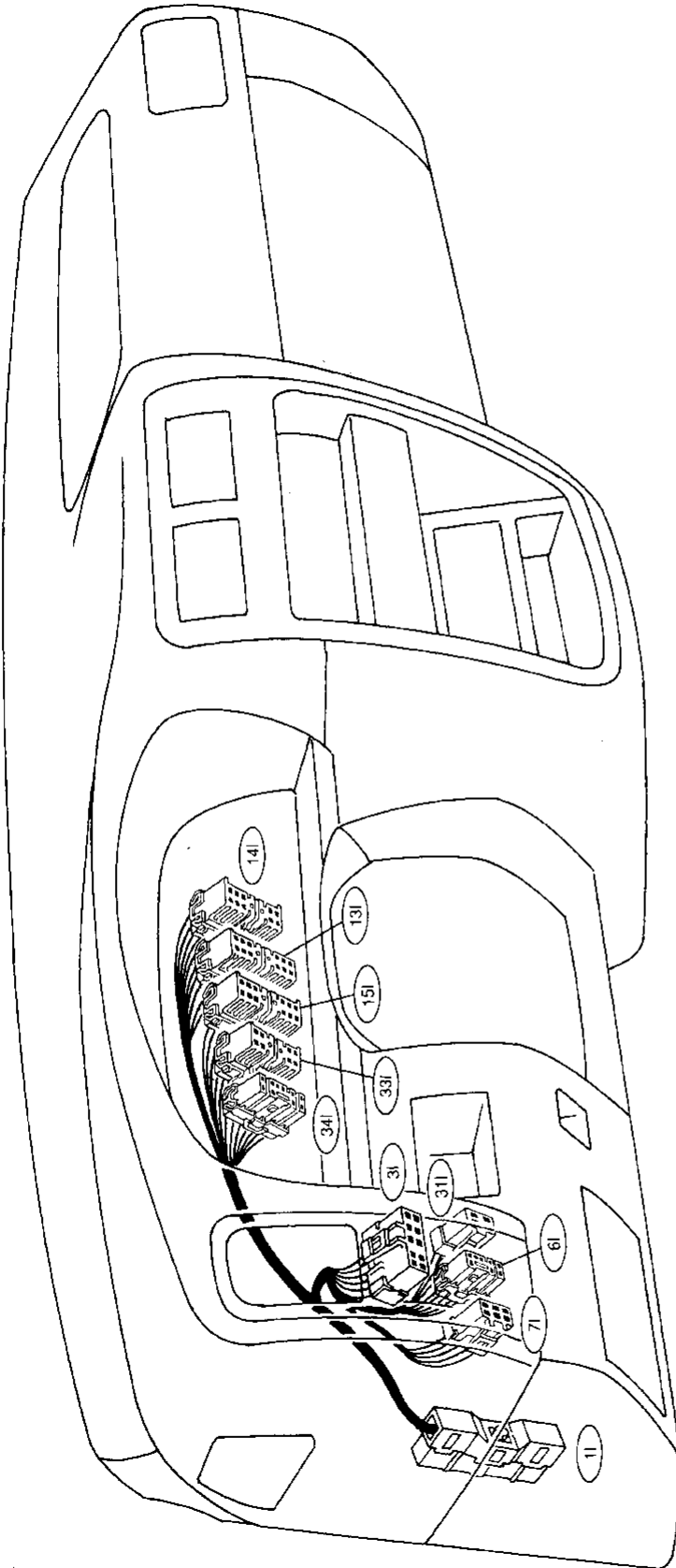


(For A/T control system)

- 323M : To console harness (Wagon)
- 325M : Foot lamp LH (Wagon)
- 326M : Glove box lamp
- 328M : Key illumination (4WD model)
- 329M : Rear wiper switch (Wagon)
- 330M : Audio amplifier (VG30E engine Truck)
- 331M : Illumination control rheostat
- 332M : Hazard switch
- 334M : Front fog lamp switch (VG30E engine Truck 4WD model)
- 335M : Rear defogger switch (Wagon)
- 336M : Key reminder relay
- 337M : To console harness (VG30E engine Truck)
- 338M : Foot lamp RH (Wagon)
- 339M : Rear door switch RH (Wagon)
- 340M : Rear speaker amplifier (Wagon)
- 341M : Adapter connector-1
- 342M : Adapter connector-2
- 343M : Adapter connector-3
- 344M : Adapter connector-4
- 345M : Adapter connector-5
- 347M : Fog lamp relay
- 348M : Diode (Truck)
- 350M : Warning unit (Wagon)
- 354M : Radio (2- or 4-speaker type)
- 355M : Audio amplifier (4-speaker type)
- 356M : Diode (Truck for Canada)

# HARNESS LAYOUT

## Instrument Harness



- (14) : Combination meter
- (15) : Combination meter
- (31) : Interlock switch (Wagon M/T model)
- (33) : Combination meter
- (34) : Combination meter

- (11) : To (210M) (SMJ)
- (31) : Remote control mirror switch
- (61) : A/T mode switch (VG30E engine A/T model)
- (71) : ASCD switch
- (131) : Combination meter

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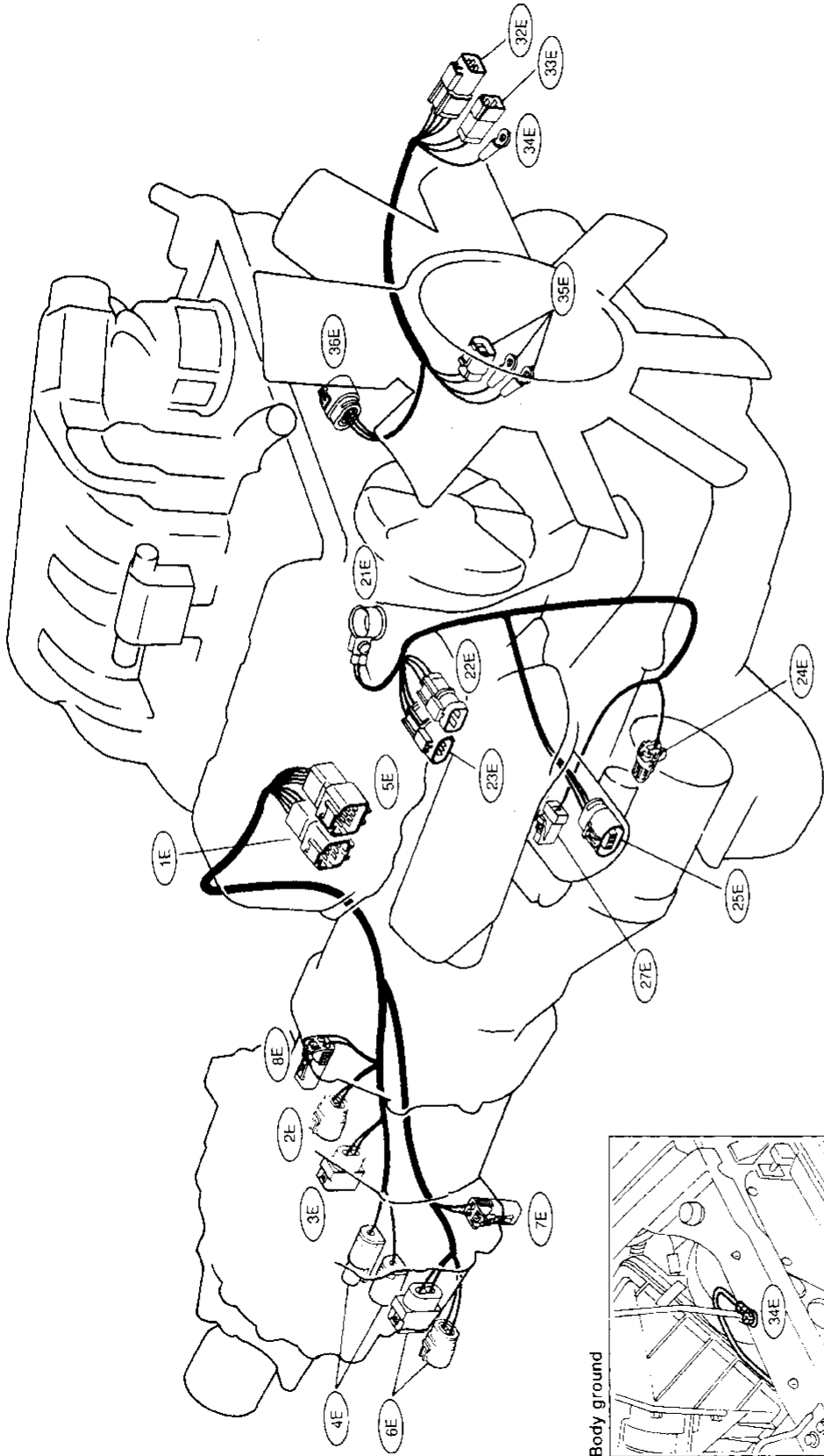
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# HARNESS LAYOUT

## Engine Harness

### VG30E ENGINE



- ①E : To (76M) (A/T model)
- ②E : Back-up lamp switch (M/T model)
- ③E : Neutral position switch (M/T model)
- ④E : Transfer switch (4WD M/T model)
- ⑤E : To (76M) (M/T model)
- ⑥E : Transfer switch (4WD A/T model)
- ⑦E : Vehicle speed sensor (A/T model)
- ⑧E : Vehicle speed sensor (M/T model)

#### Battery cable

- ②1E : Battery
- ②2E : To (87M)
- ②3E : To (88M) (with adjustable shock absorber)
- ②4E : Starter motor
- ②5E : Front adjustable shock absorber RH
- ②7E : Oil pressure switch

#### Alternator harness

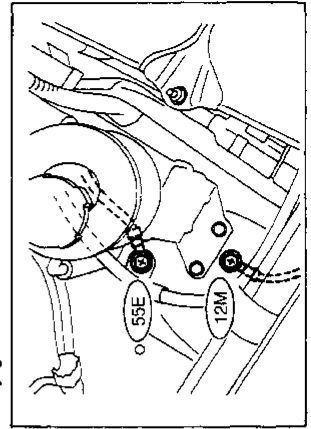
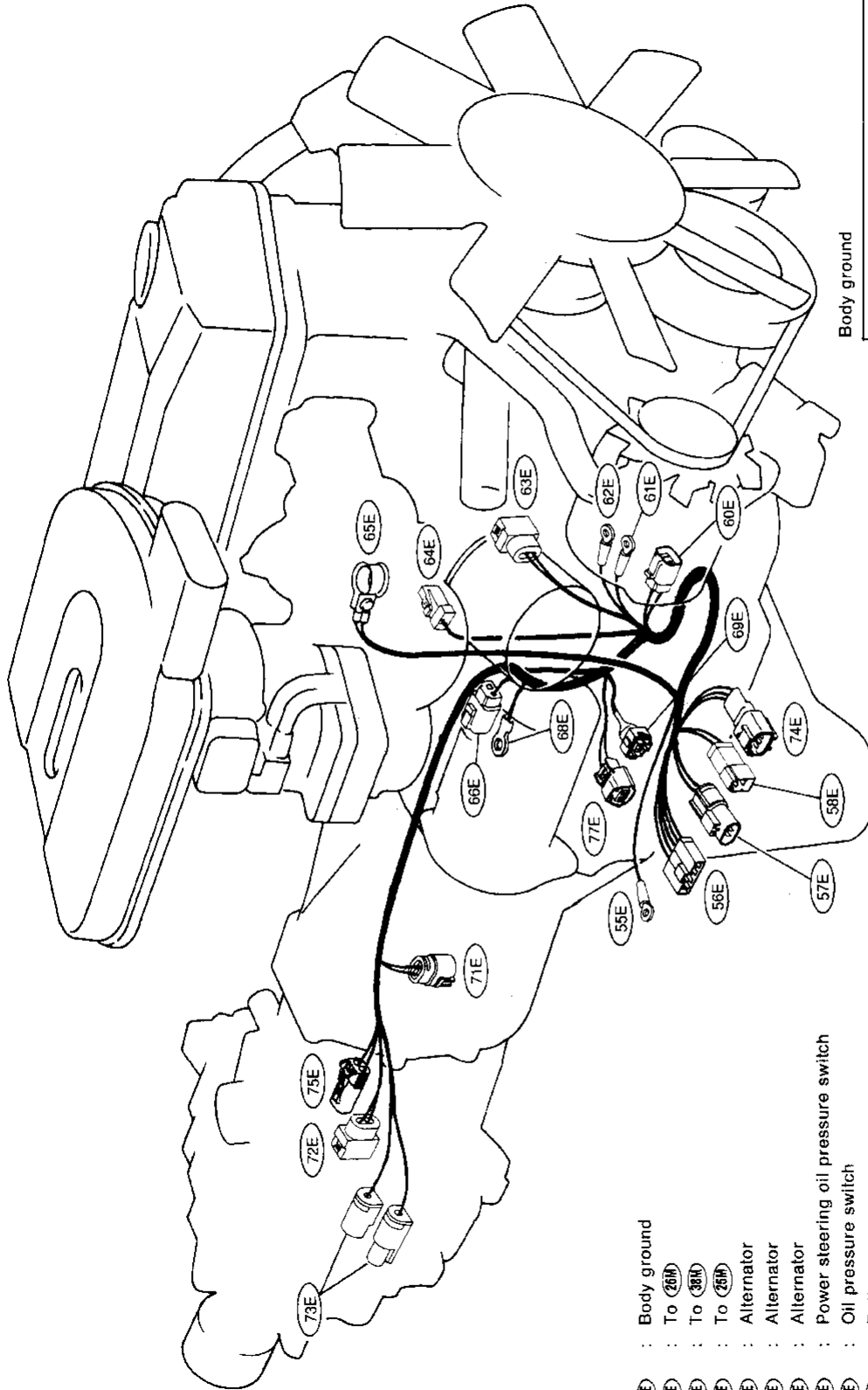
- ③2E : To (37M)
- ③3E : To (38M)
- ③4E : Body ground
- ③5E : Alternator
- ③6E : Front shock absorber LH (Wagon)

Body ground

# HARNESS LAYOUT

## Engine Harness (Cont'd)

KA24E ENGINE



- 55E : Body ground
- 56E : To 26M
- 57E : To 30M
- 58E : To 25M
- 60E : Alternator
- 61E : Alternator
- 62E : Alternator
- 63E : Power steering oil pressure switch
- 64E : Oil pressure switch
- 65E : Battery
- 66E : Starter motor
- 68E : Starter motor
- 69E : SCV control solenoid valve (Except 2WD M/T model for California)
- 70E : Back-up lamp switch (M/T model)
- 72E : Neutral position switch (M/T model)
- 73E : Transfer switch (4WD M/T model)
- 74E : To 101M
- 75E : Vehicle speed sensor
- 76E : SCV control solenoid valve (2WD M/T model for California)

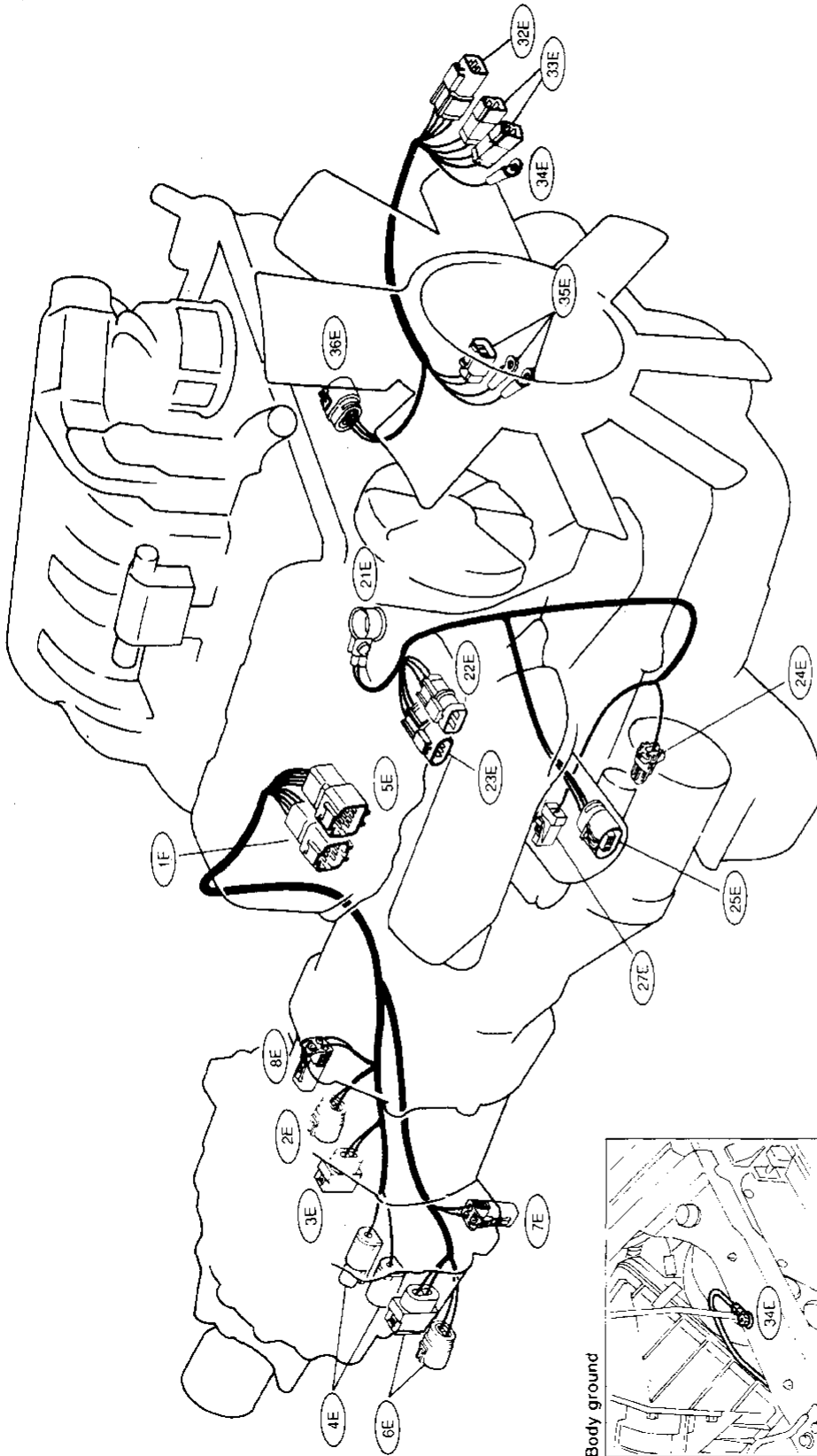
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# HARNESS LAYOUT

## Engine Control Harness

VG30E ENGINE



- 1E : To 78M (A/T model)
- 2E : Back-up lamp switch (M/T model)
- 3E : Neutral position switch (M/T model)
- 4E : Transfer switch (4WD M/T model)
- 5E : To 78M (M/T model)
- 6E : Transfer switch (4WD A/T model)
- 7E : Vehicle speed sensor (A/T model)
- 8E : Vehicle speed sensor (M/T model)

### Battery cable

- 21E : Battery
- 22E : To 87M
- 23E : To 86M (with adjustable shock absorber)
- 24E : Starter motor
- 25E : Front adjustable shock absorber RH
- 27E : Oil pressure switch

### Alternator harness

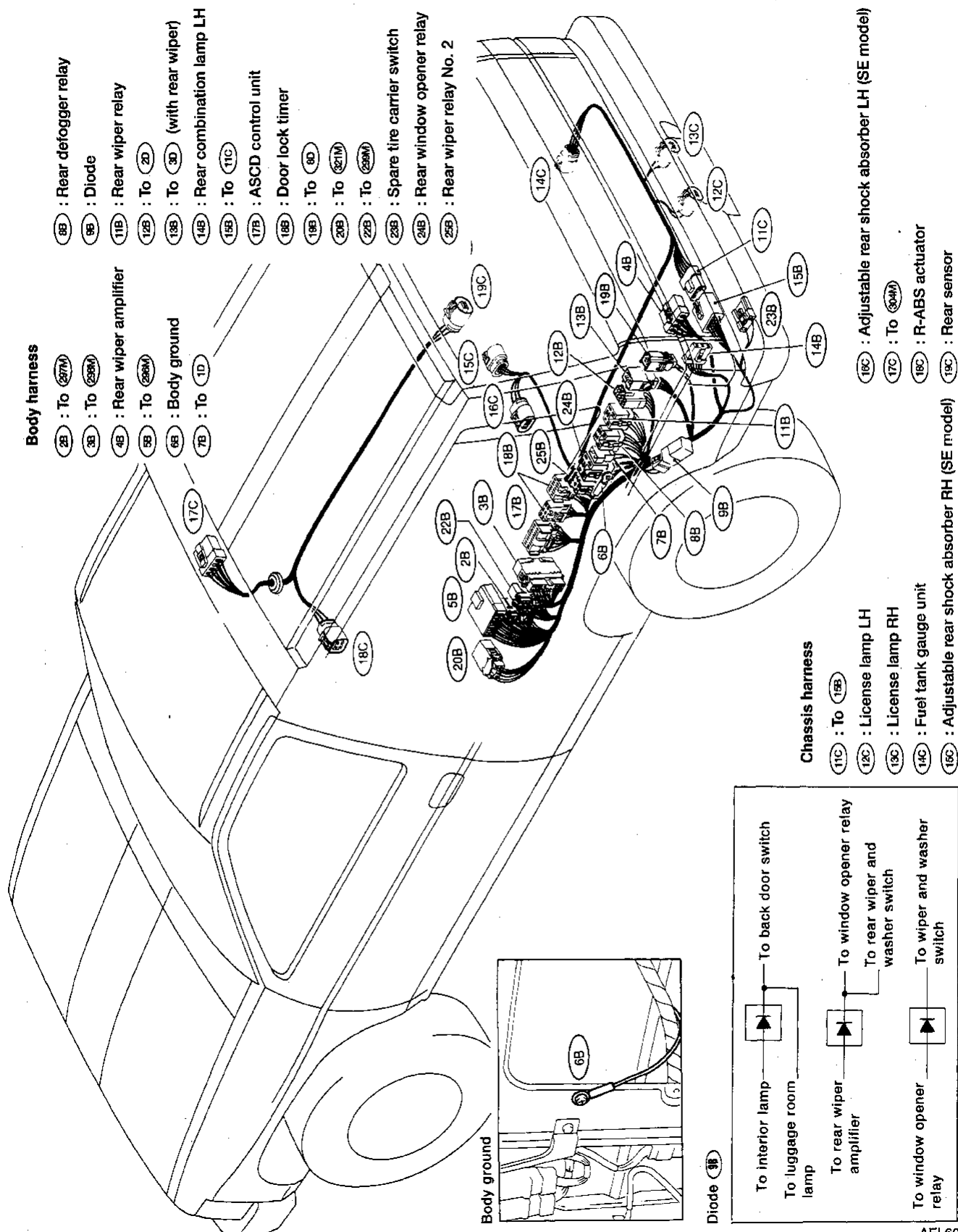
- 32E : To 37M
- 33E : To 38M
- 34E : Body ground
- 35E : Alternator
- 36E : Front shock absorber LH (Wagon)

AEL600

# HARNESS LAYOUT

## Body and Chassis Harness

### WAGON MODEL

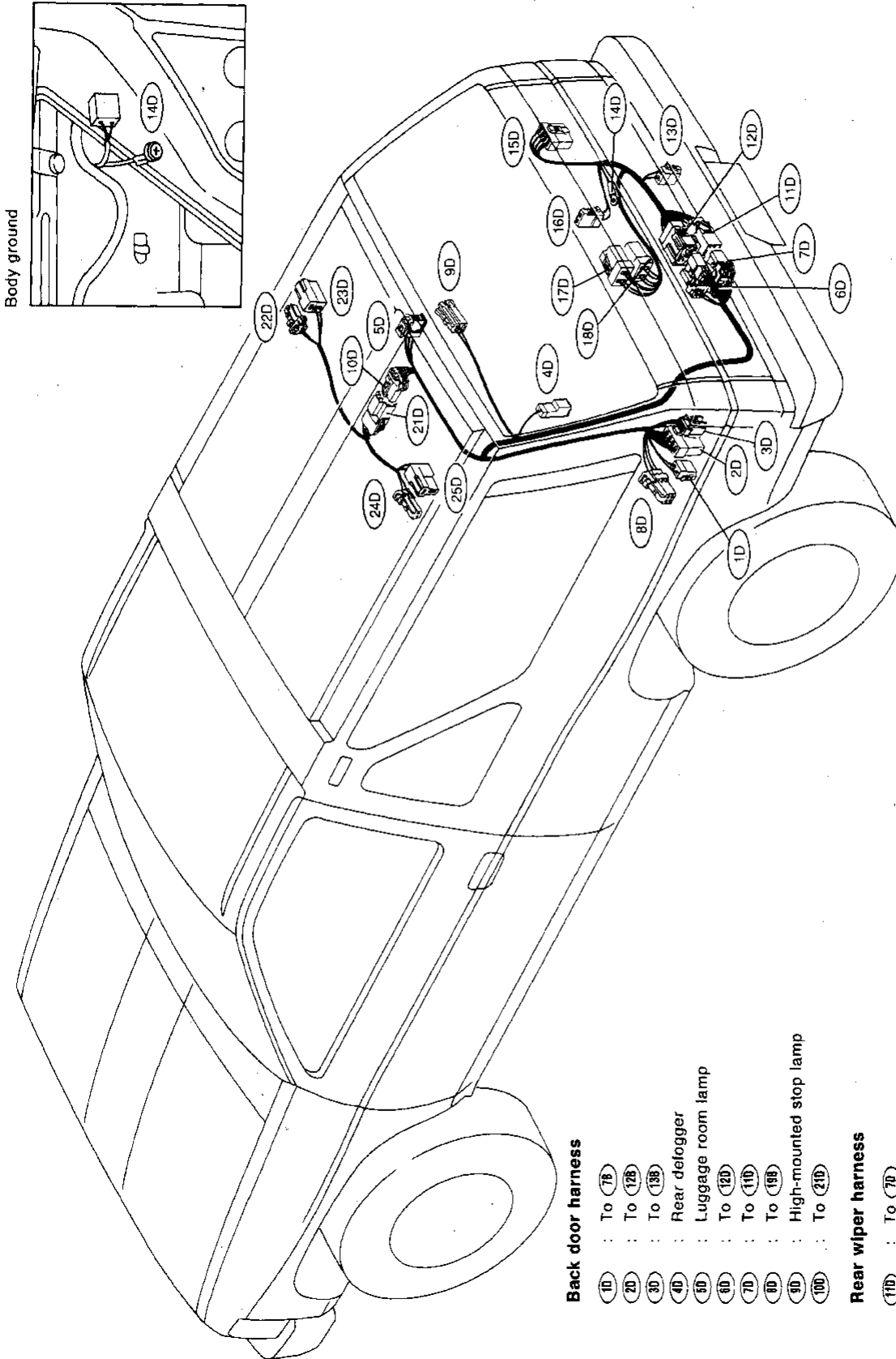


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# HARNES LAYOUT

## Back Door, Rear Wiper and Roof Speaker Harness



### Back door harness

- (10) : To (78)
- (20) : To (128)
- (30) : To (138)
- (40) : Rear delogger
- (50) : Luggage room lamp
- (60) : To (120)
- (70) : To (110)
- (80) : To (188)
- (90) : High-mounted stop lamp
- (100) : To (210)

### Rear wiper harness

- (110) : To (70)
- (120) : To (60)
- (130) : Back door switch
- (140) : Body ground
- (150) : Rear wiper motor
- (160) : Glass hatch switch
- (170) : Glass hatch opener solenoid
- (180) : Door lock actuator

### Roof speaker harness

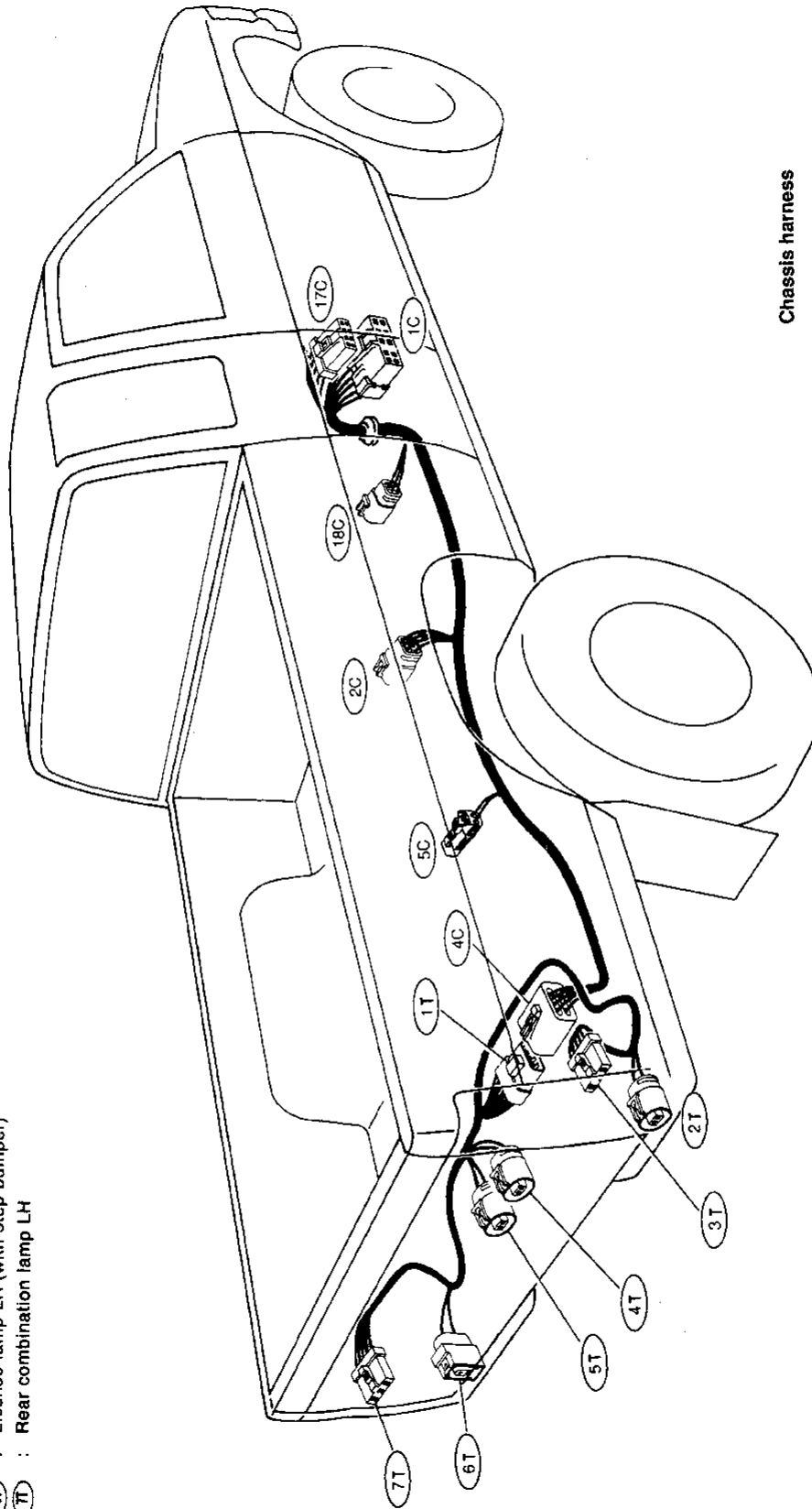
- (210) : To (100) (6- or 8-speaker type)
- (220) : Tweeter RH (6- or 8-speaker type)
- (230) : Woofer speaker RH (6- or 8-speaker type)
- (240) : Tweeter LH (6- or 8-speaker type)
- (250) : Woofer speaker LH (6- or 8-speaker type)

# HARNESS LAYOUT

## Chassis and Tail Harness

### Tail harness

- 1T : To 4F
- 2T : License lamp RH (With step bumper)
- 3T : Rear combination lamp RH
- 4T : License lamp RH (Without step bumper)
- 5T : License lamp LH (Without step bumper)
- 6T : License lamp LH (with step bumper)
- 7T : Rear combination lamp LH



### Chassis harness

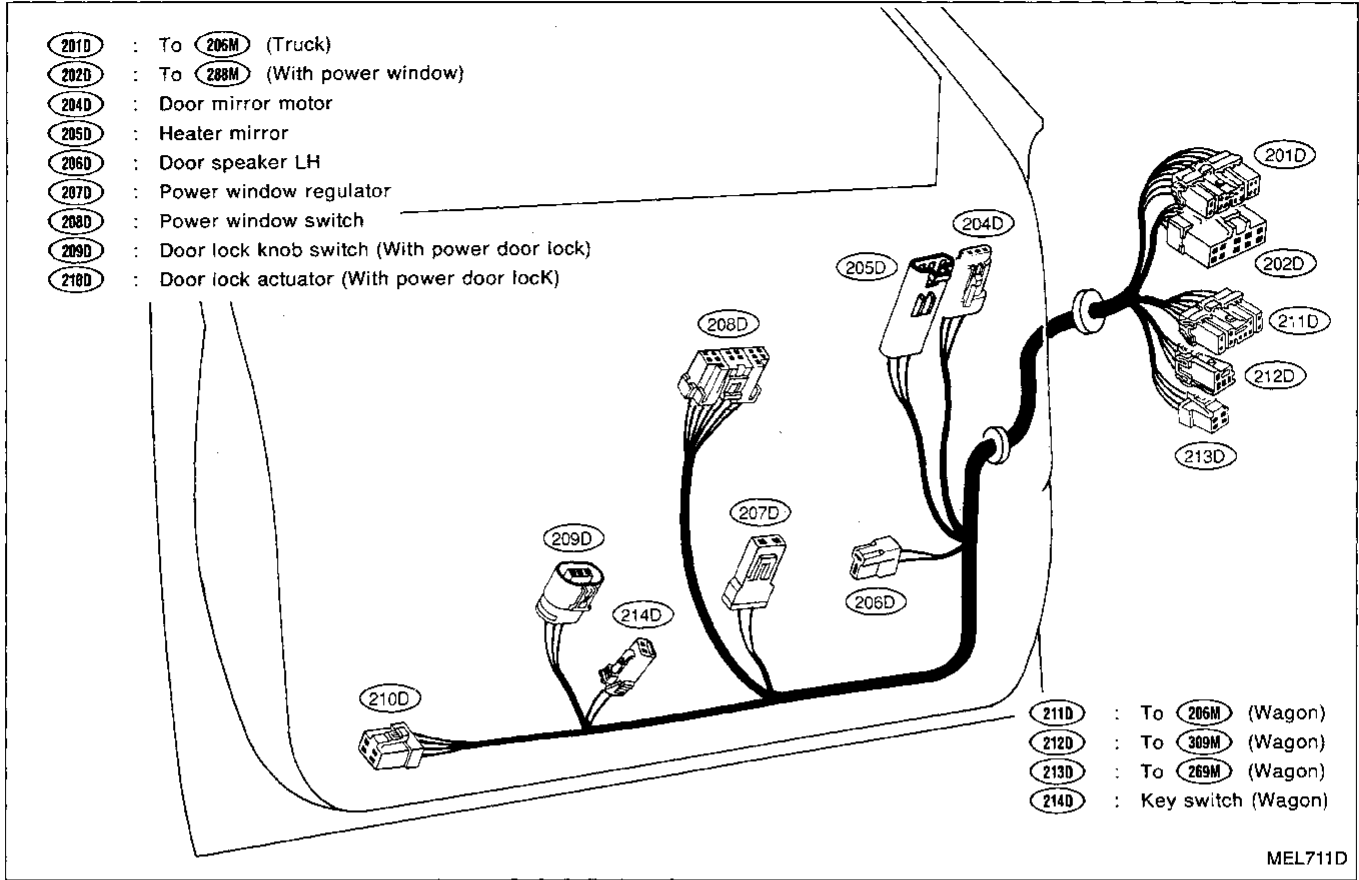
- 1C : To 280M
- 2C : Fuel tank gauge unit
- 4C : To 1T
- 5C : Rear sensor (with R-ABS)
- 17C : To 204M
- 18C : R-ABS actuator

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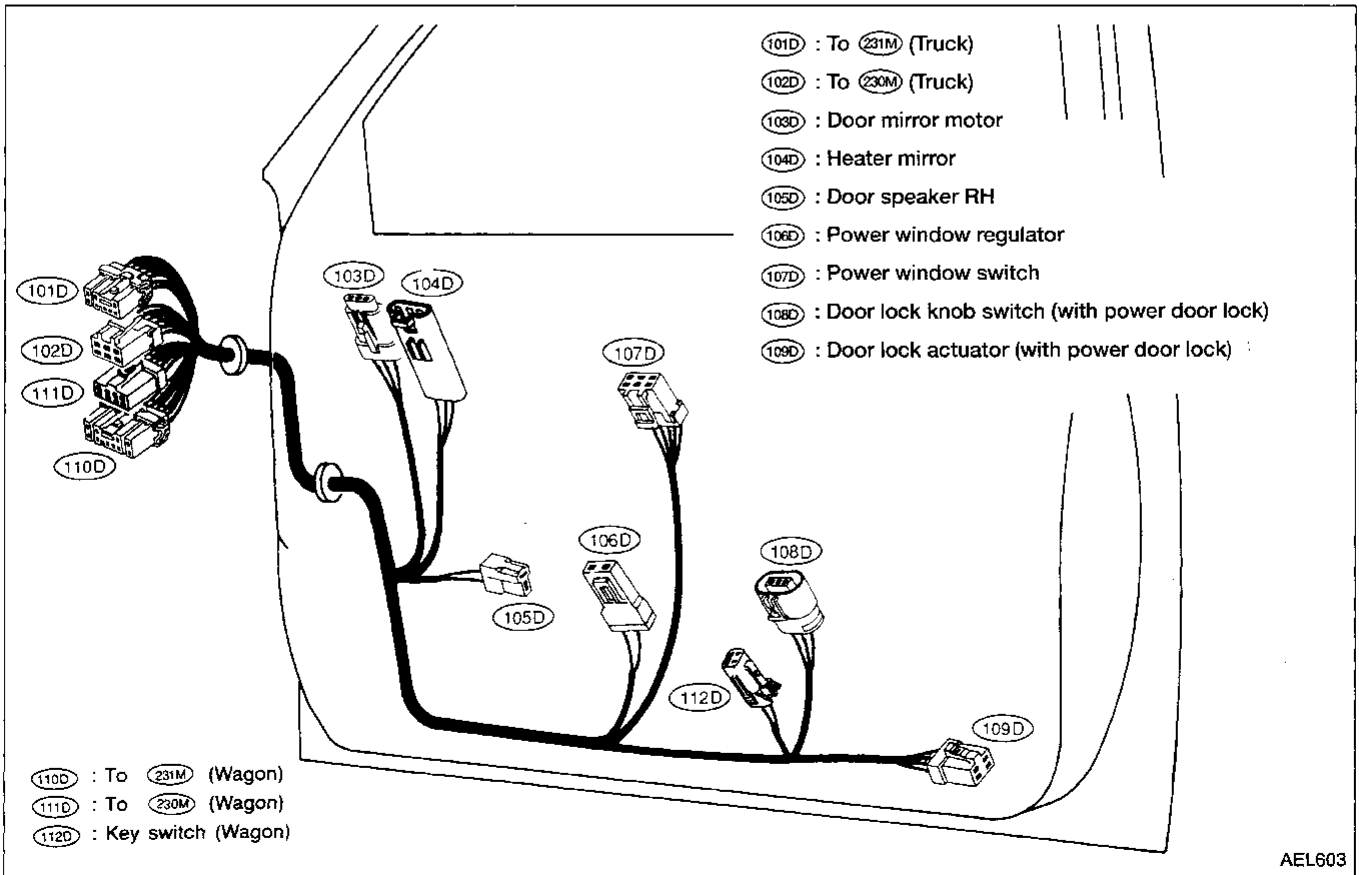
# HARNESS LAYOUT

## Door harness LH

## Front Door Harness



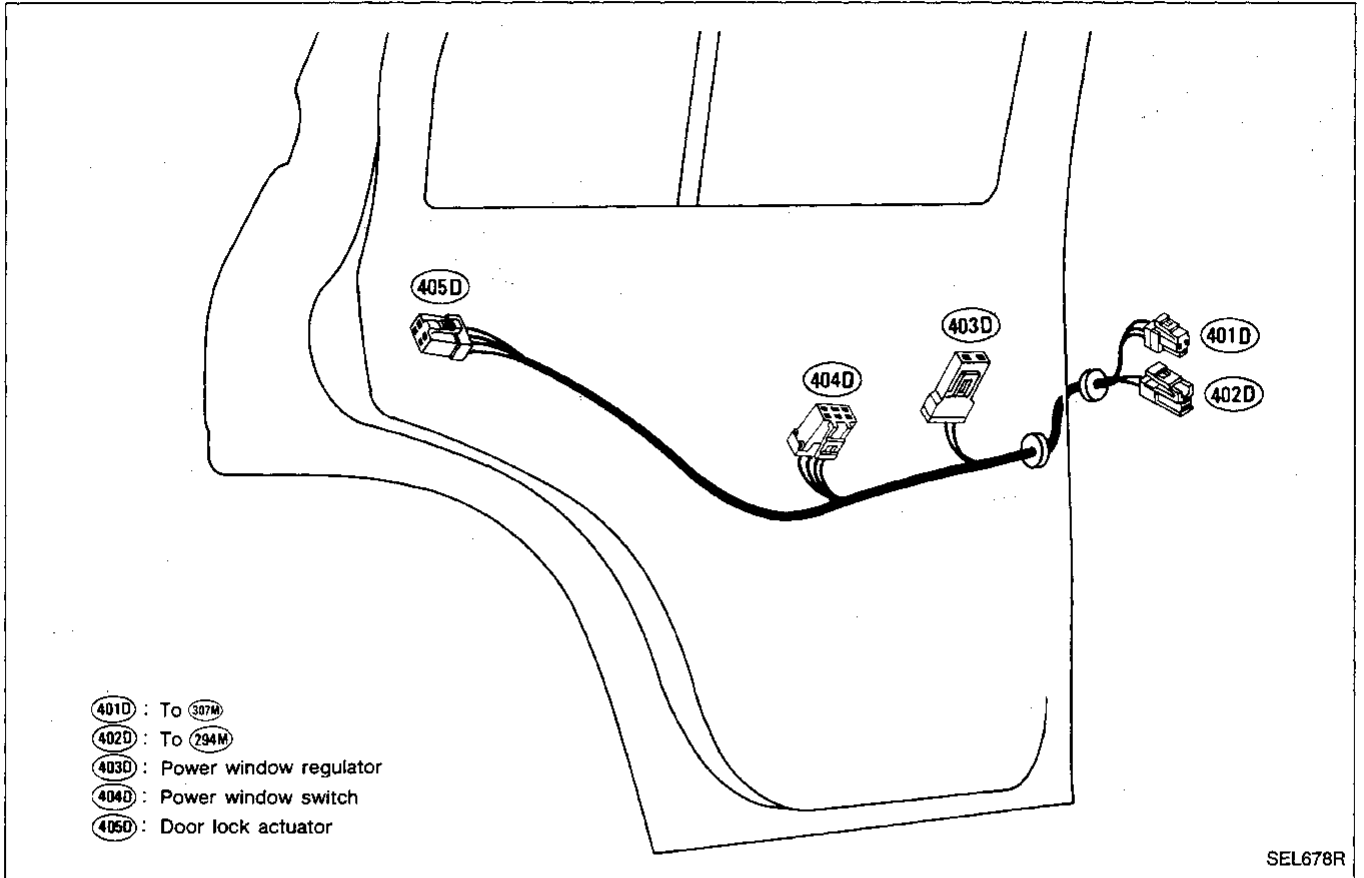
## Door harness RH



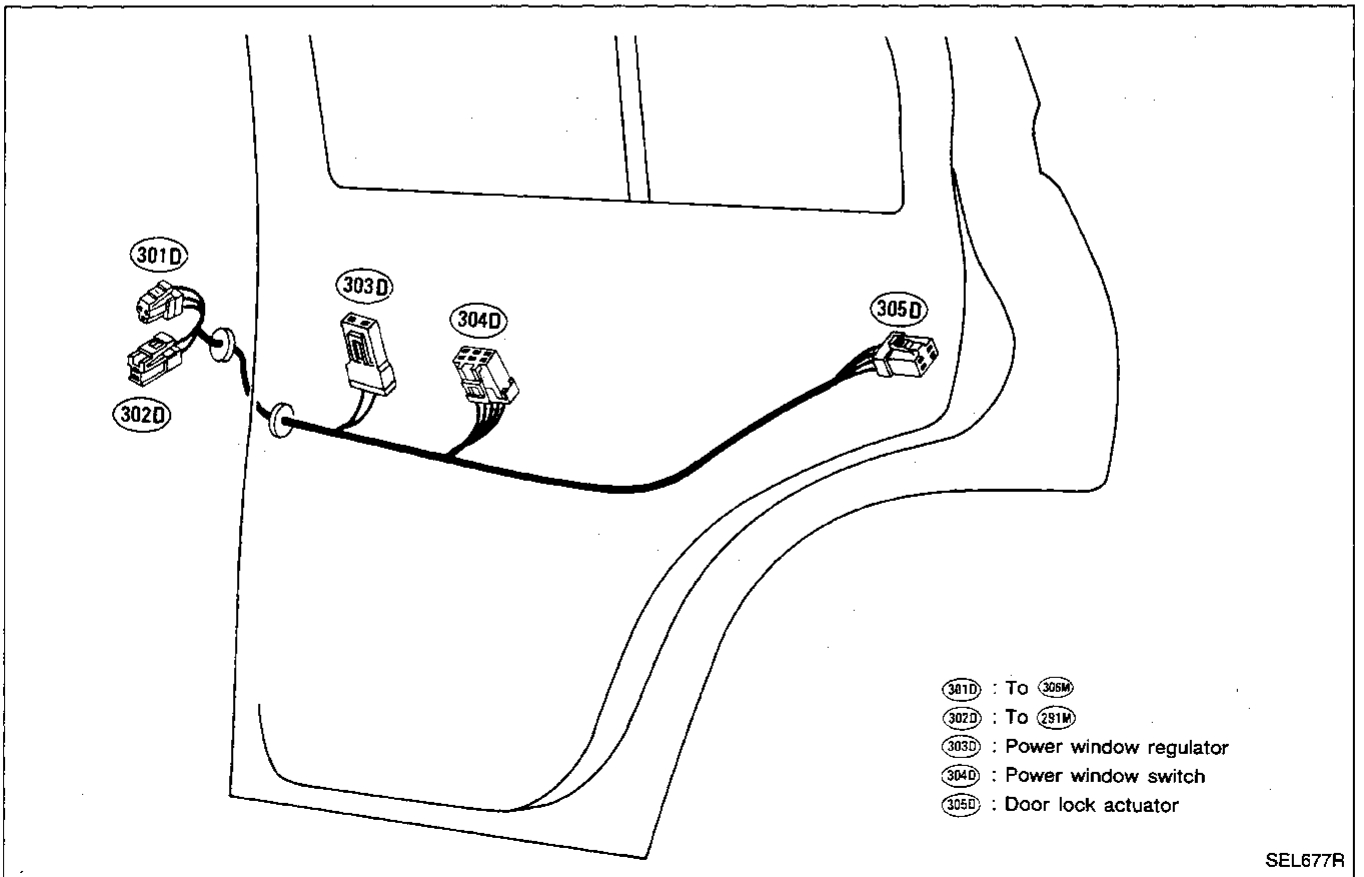
# HARNESS LAYOUT

## Door harness LH

## Rear Door Harness



## Door harness RH

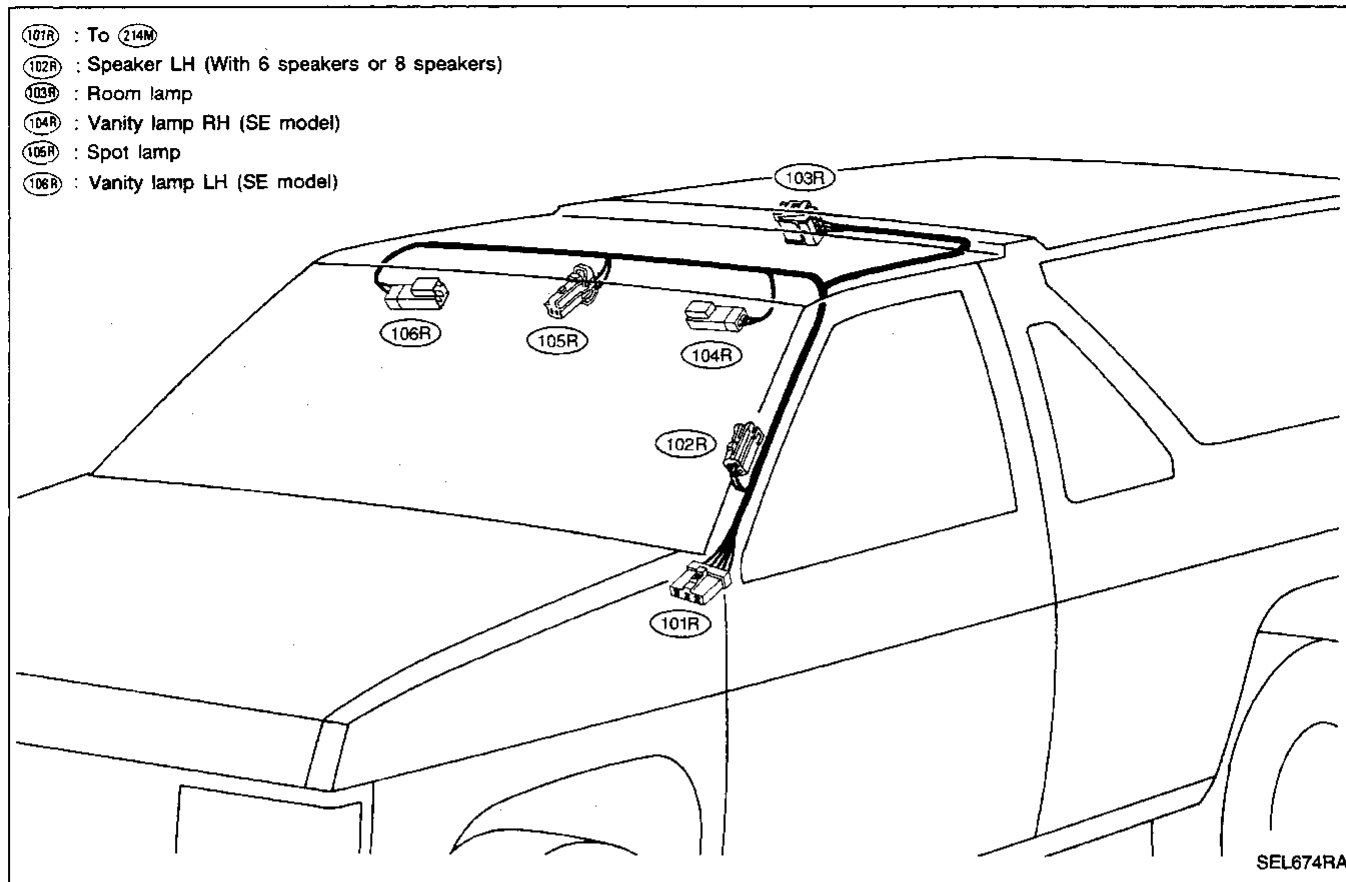


GI  
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EM  
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FE  
CL  
MT  
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TF  
PD  
FA  
RA  
BR  
ST  
BF  
HA  
EL  
IDX

# HARNES LAYOUT

## WAGON MODEL

## Room Lamp Harness



## TRUCK MODEL

