

# WIRING DIAGRAMS

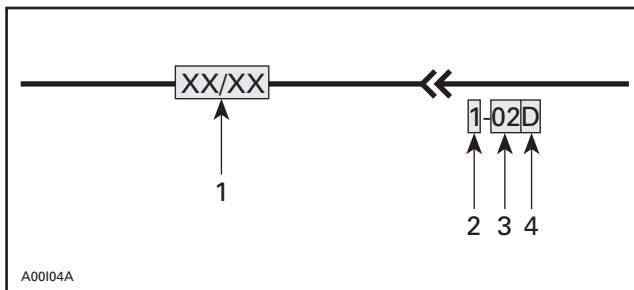
MODELS	WIRING DIAGRAM PAGE	HEADLIGHT (watt)	TAILLIGHT (watt)	ELECTRICAL SYSTEM OUTPUT (watt)
Formula III 600/700/800 Mach 1/Z /Z LT	Annex 1	60/55 hal.	8/27	290
Mach 1R/Z R/Z M.H. R/Z LT R	Annex 2	60/55 hal.	8/27	290
GT 700	Annex 3	60/55 hal.	8/27	360
GT SE	Annex 4	60/55 hal.	8/27	360

hal. = halogen

## WIRING DIAGRAM LEGEND

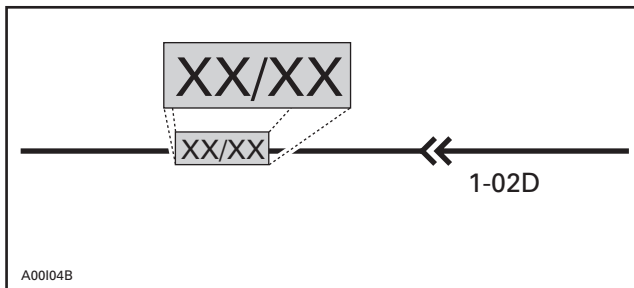
**◆ WARNING**

Ensure all terminals are properly crimped on the wires and all connector housings are properly fastened.



1. Wire colors
2. Connector housing area
3. Housing number per area
4. Wire connector location in housing

## WIRE COLORS

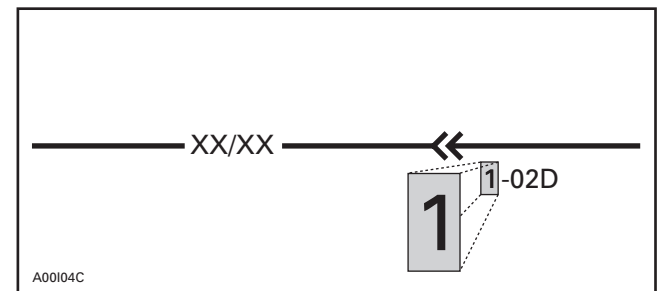


The first color of a wire is the main color, second color is the stripe.

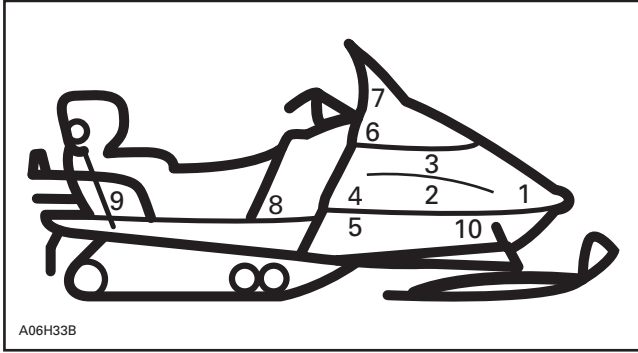
Example: YL/BK is a YELLOW wire with a BLACK stripe.

COLOR CODE					
BK	—	BLACK	GN	—	GREEN
WH	—	WHITE	GY	—	GREY
RD	—	RED	VI	—	VIOLET
BL	—	BLUE	OR	—	ORANGE
YL	—	YELLOW	BR	—	BROWN
BE	—	BEIGE			

## CONNECTOR HOUSING AREA



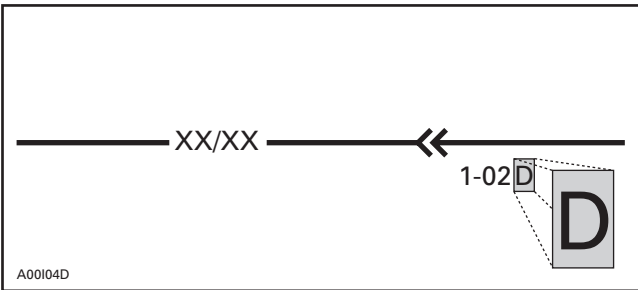
**Section 11 WIRING DIAGRAMS**  
 Subsection 01 (WIRING DIAGRAMS)



A06H33B

AREA	LOCATION
1	Front of engine compartment
2	Magneto
3	Carburetors
4	Near of intake silencer
5	Near driven pulley
6	Under console
7	Under hood
8	Near fuel tank
9	Rear of seat
10	Under engine

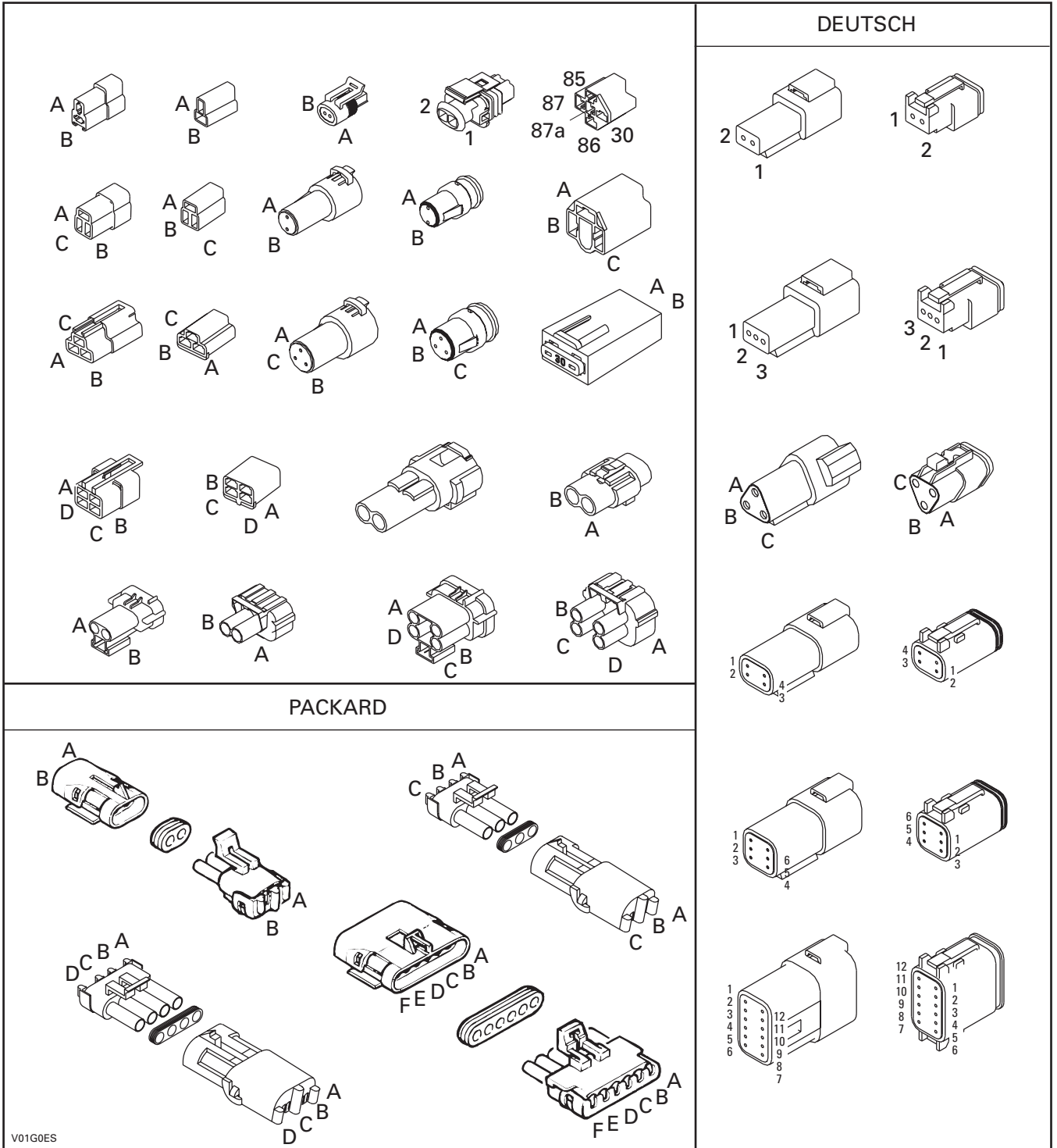
**CONNECTOR LOCATION IN HOUSING**



A00I04D

# Section 11 WIRING DIAGRAMS

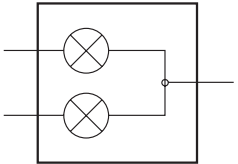
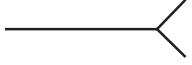
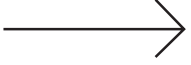

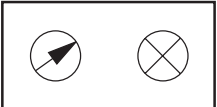
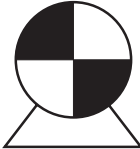
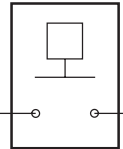
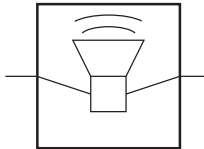
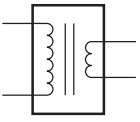
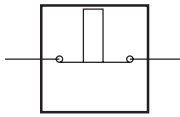
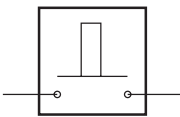





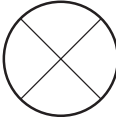
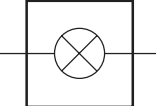
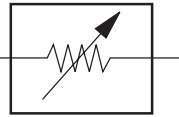
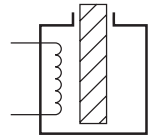

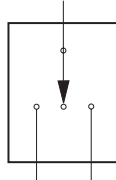
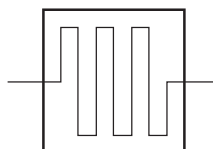
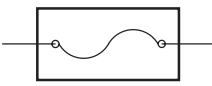

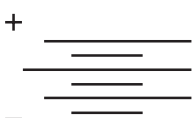
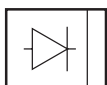

## Subsection 01 (WIRING DIAGRAMS)



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**Section 11 WIRING DIAGRAMS**  
 Subsection 01 (WIRING DIAGRAMS)

**SYMBOLS DESCRIPTION**

<p>Beam and tail light</p> 	<p>Female terminal</p> 	<p>Male terminal</p> 	<p>Electronic module</p> 
<p>Meter</p> 	<p>Electric motor</p> 	<p>Low level sensor</p> 	<p>Buzzer</p> 
<p>Ignition coil</p> 	<p>Normally close switch</p> 	<p>Normally open switch</p> 	<p>Male terminal on instrument</p> 
<p>Engine ground</p> 	<p>Frame ground</p> 	<p>Spark plug</p> 	<p>Meter movement</p> 
<p>Bulb</p> 	<p>Pilot lamp</p> 	<p>Analog sensor</p> 	<p>Solenoid valve</p> 
<p>Magneto (Delta)</p> 	<p>3 position switch</p> 	<p>Heating element</p> 	<p>Fuse</p> 
<p>Trigger coil</p> 	<p>Battery</p> 	<p>Diode</p> 	<p>Partially illustrated component</p> 

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## UNPLUGGING CONNECTORS

Always unplug connectors by pulling on housing not on wire.

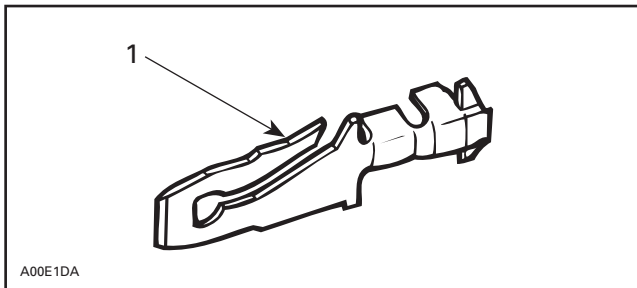


TYPICAL

## TAB AND RECEPTACLE CONNECTORS REMOVAL

### Tab Connector

It is locked in its housing by a spring tab on its side. Removal is done by squeezing this tab.

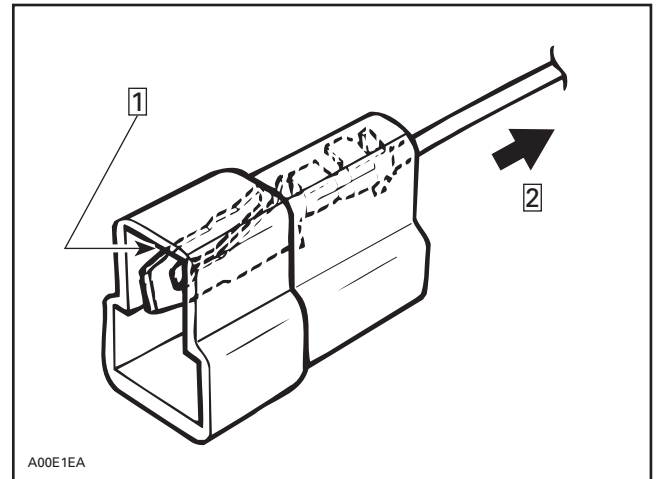


TAB CONNECTOR

1. Locking tab

To remove:

- Insert a screwdriver or Snap-on TT 600-5 from opposite side of wire and pry locking tab.
- While holding locking tab pried, pull connector toward wire side.



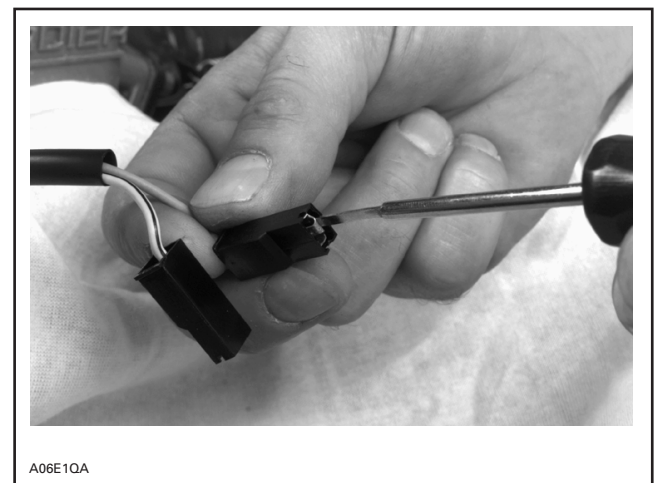
Step 1 : Insert screwdriver here

Step 2 : Pull this side

### Locking Receptacle Connector

To remove:

- Insert tool Snap-on TT 600-5 in access opening then pull housing toward wire side.



## Section 11 WIRING DIAGRAMS

### Subsection 01 (WIRING DIAGRAMS)

#### Waterproof Connector Housing

##### Female Connector Housing

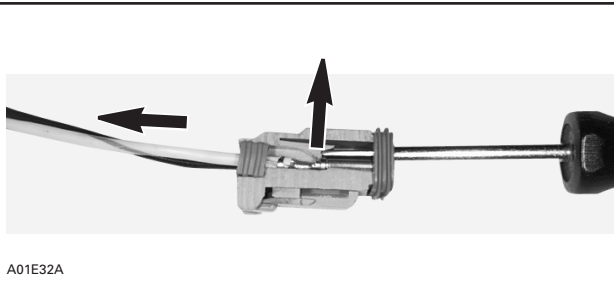
To remove:

- Insert tool Snap-on TT 600-5 under lock and twist to lift it.



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- Pry tab to free connector then pull wire out of housing.



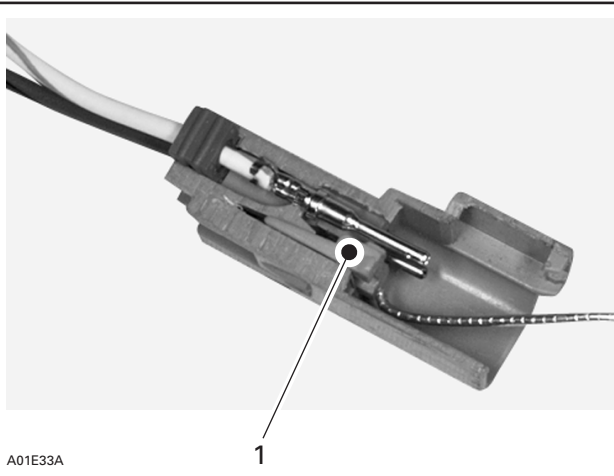
A01E32A

*FEMALE CONNECTOR HOUSING — CUT-AWAY*

##### Male Connector Housing

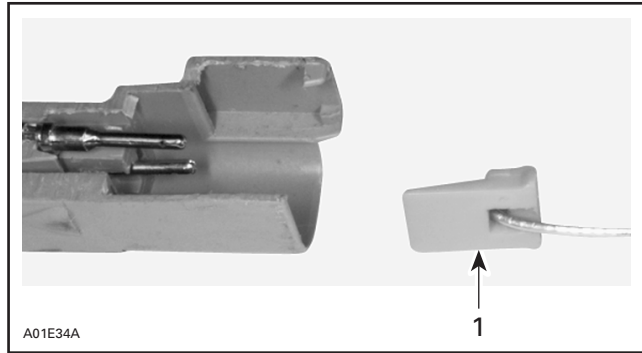
To remove:

- Using a small hook, pull out the lock.



A01E33A

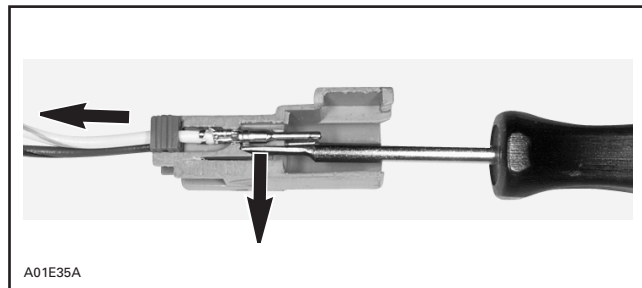
1. Lock



A01E34A

1. Lock

- Pry tab to free connector then pull wire out of housing.

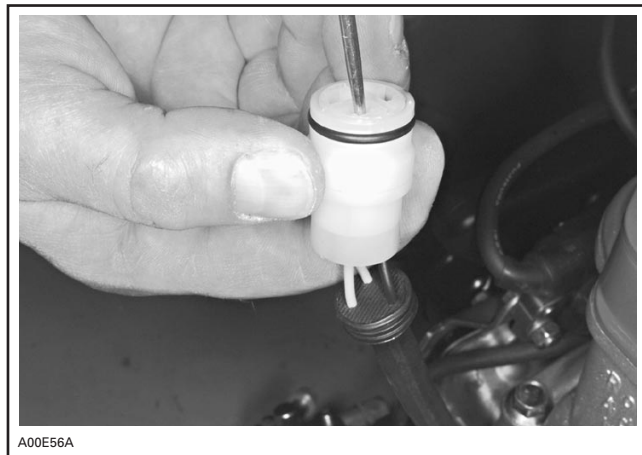


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*MALE CONNECTOR HOUSING — CUT-AWAY*

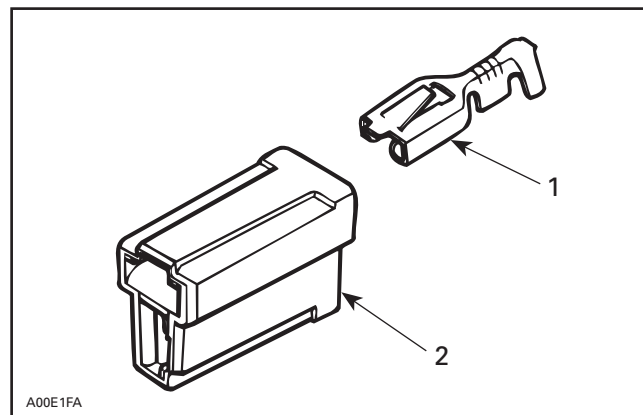
#### Round Connector Housing

##### Female Connector Housing



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### Male Connector Housing

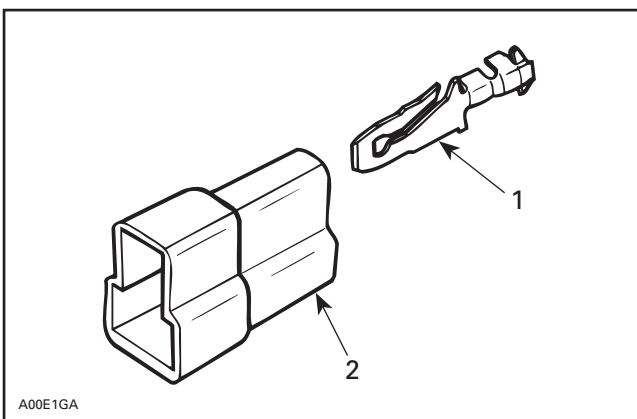


*TYPICAL*  
1. Receptacle  
2. Housing

### TAB AND RECEPTACLE CONNECTORS INSTALLATION

Prior to installing, make sure locking tab is sufficiently lifted to properly lock.

Insert tab and receptacle connectors in their respective housings as shown in following illustrations. Push sufficiently so that they snap. Try pulling wire to ensure they are properly locked.



1. Tab  
2. Housing

### ACCESSORIES INSTALLATION

On all **electric start models**: The direct current (DC) utilizes the snowmobile frame as ground "wire" while all alternating current (AC) consumers (lights, heated grips, fuel gauge, etc.) utilize a separate ground wire.

Never interconnect AC and DC grounds as an AC voltage drop will result. When installing accessories on **any** snowmobile, connect their wires directly to the YELLOW and YELLOW/BLACK lighting coil wires.

Even if **manual start models** have an AC ground to the chassis (on voltage regulator), all accessories utilize a ground wire isolated from chassis. When an electric starter kit is installed, the voltage regulator and its ground wire are replaced by a voltage rectifier/regulator unit permitting a completely isolated AC circuit.

### ◆ WARNING

Keep wires away from any rotating, moving, heating, vibrating or sharp edge. Use proper fastening devices as required.

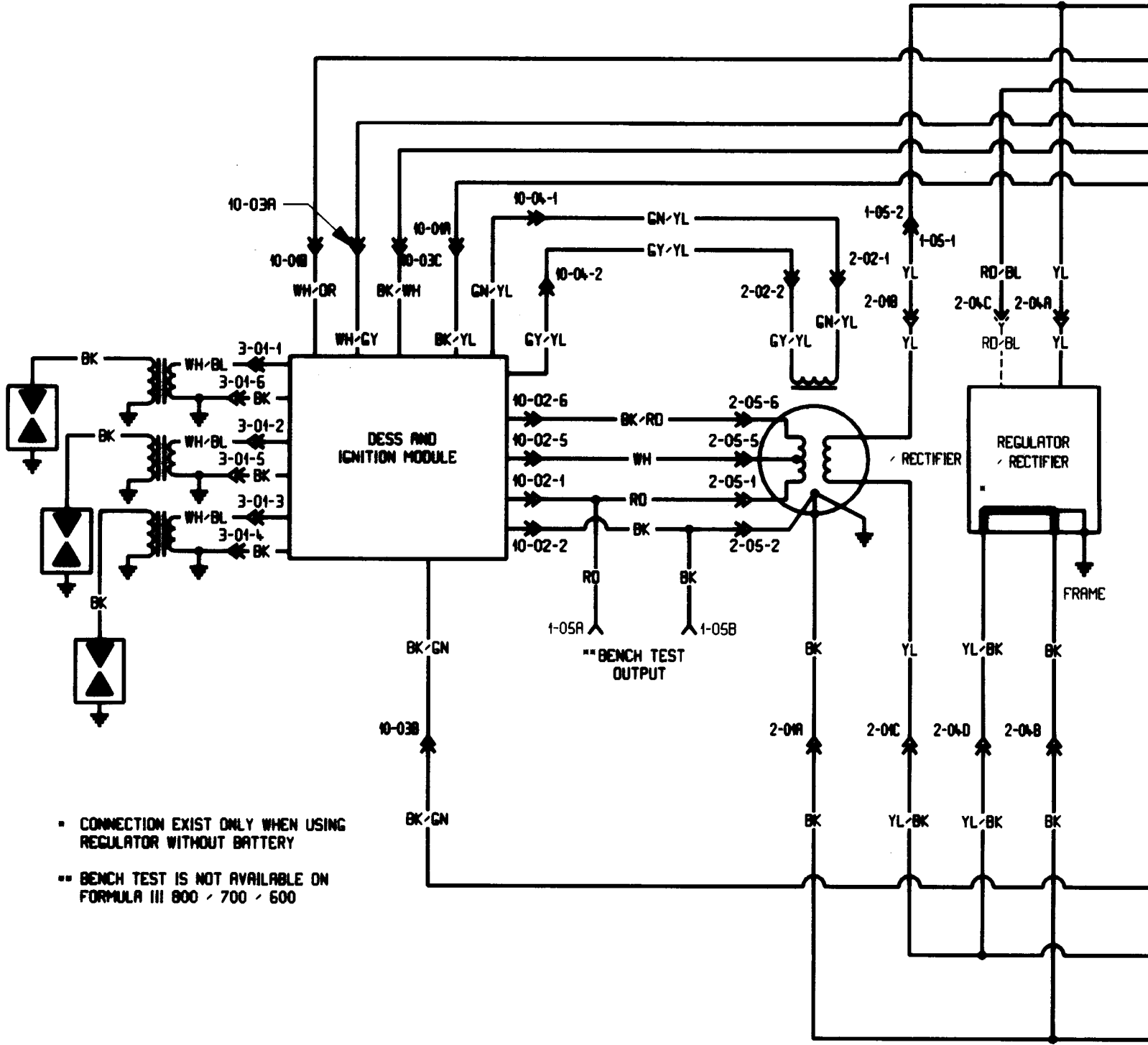
**ANNEX 1**

**FORMULA III 600/700/800**

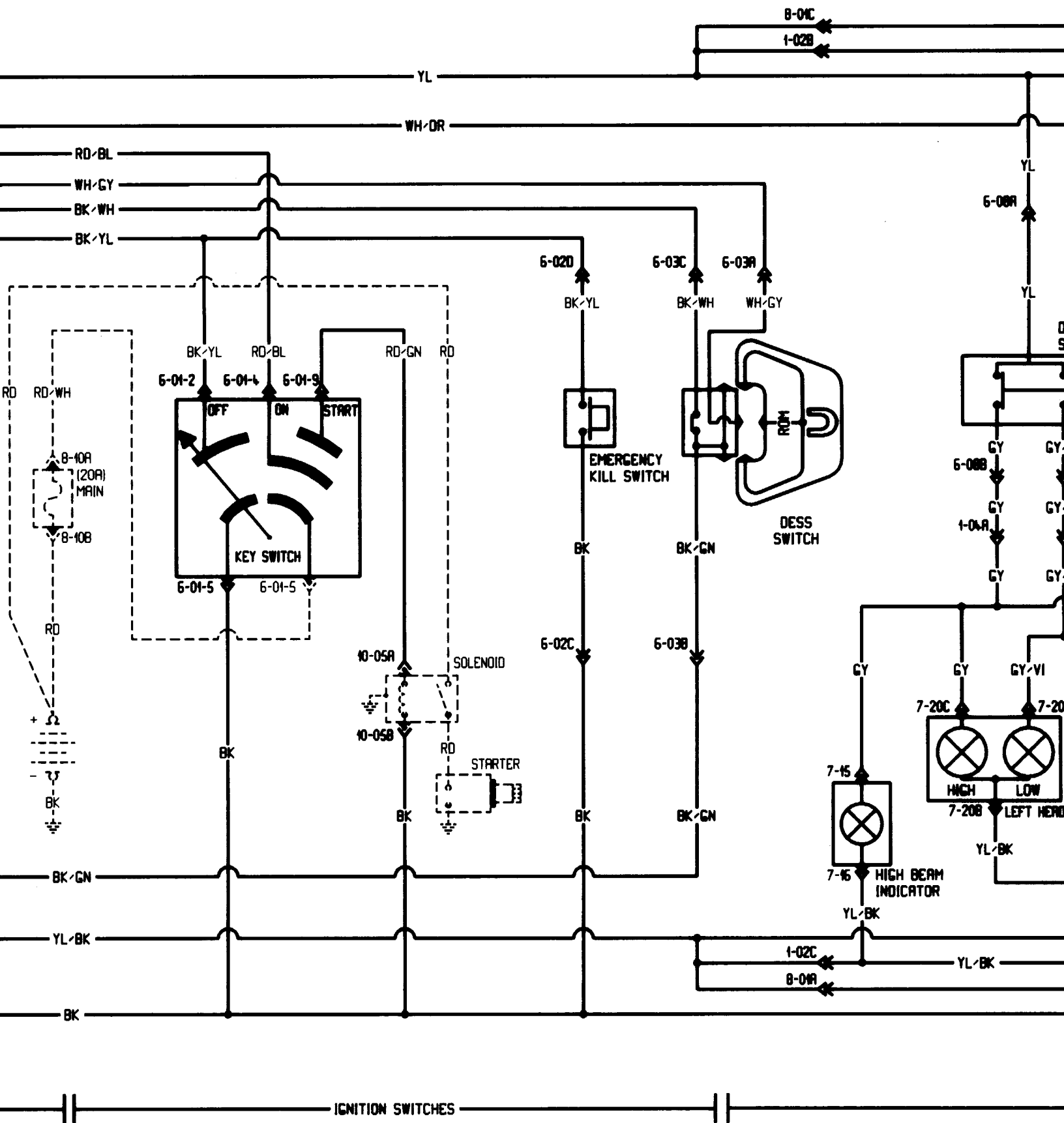
**MACH 1/Z/Z LT**

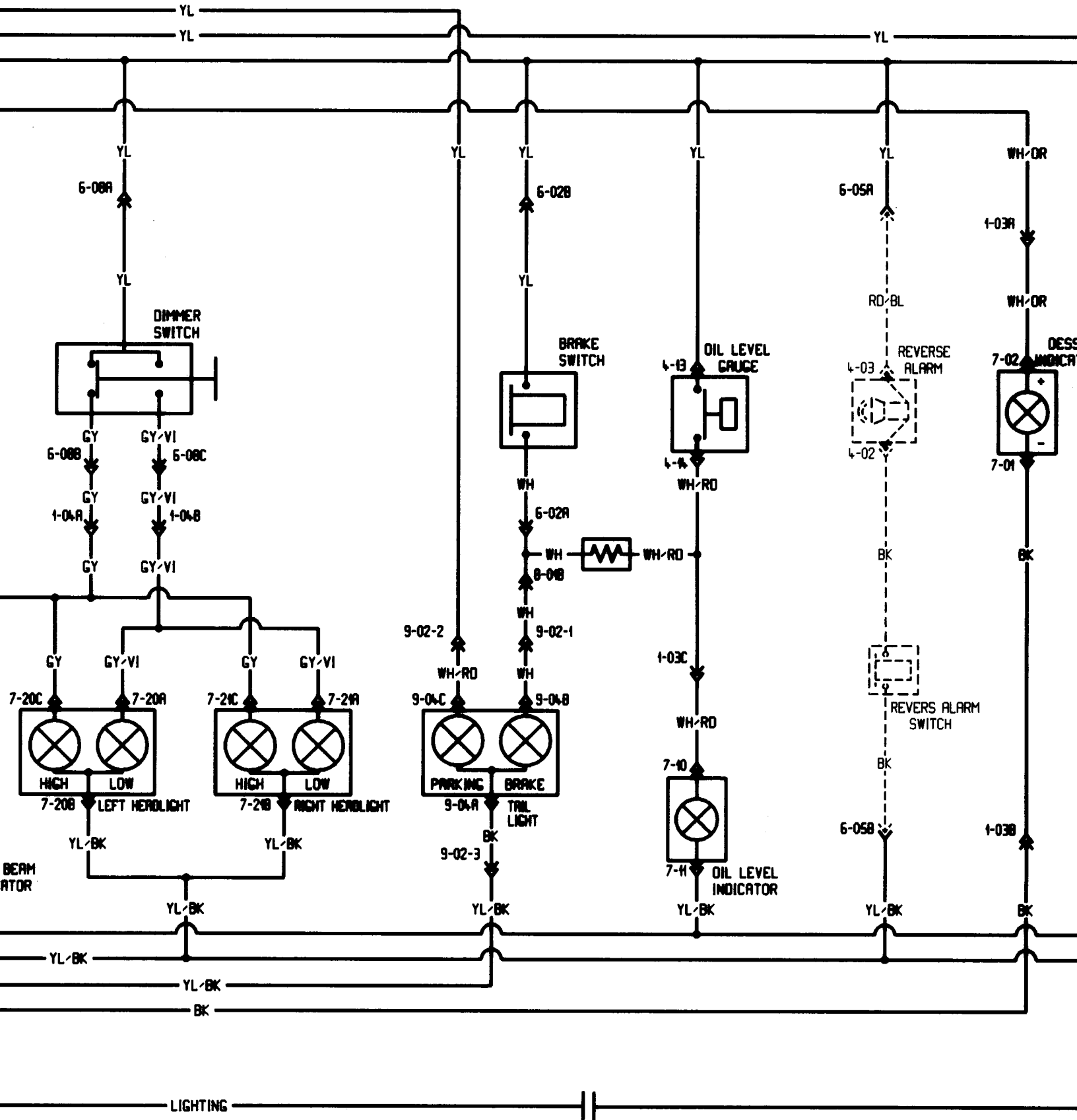


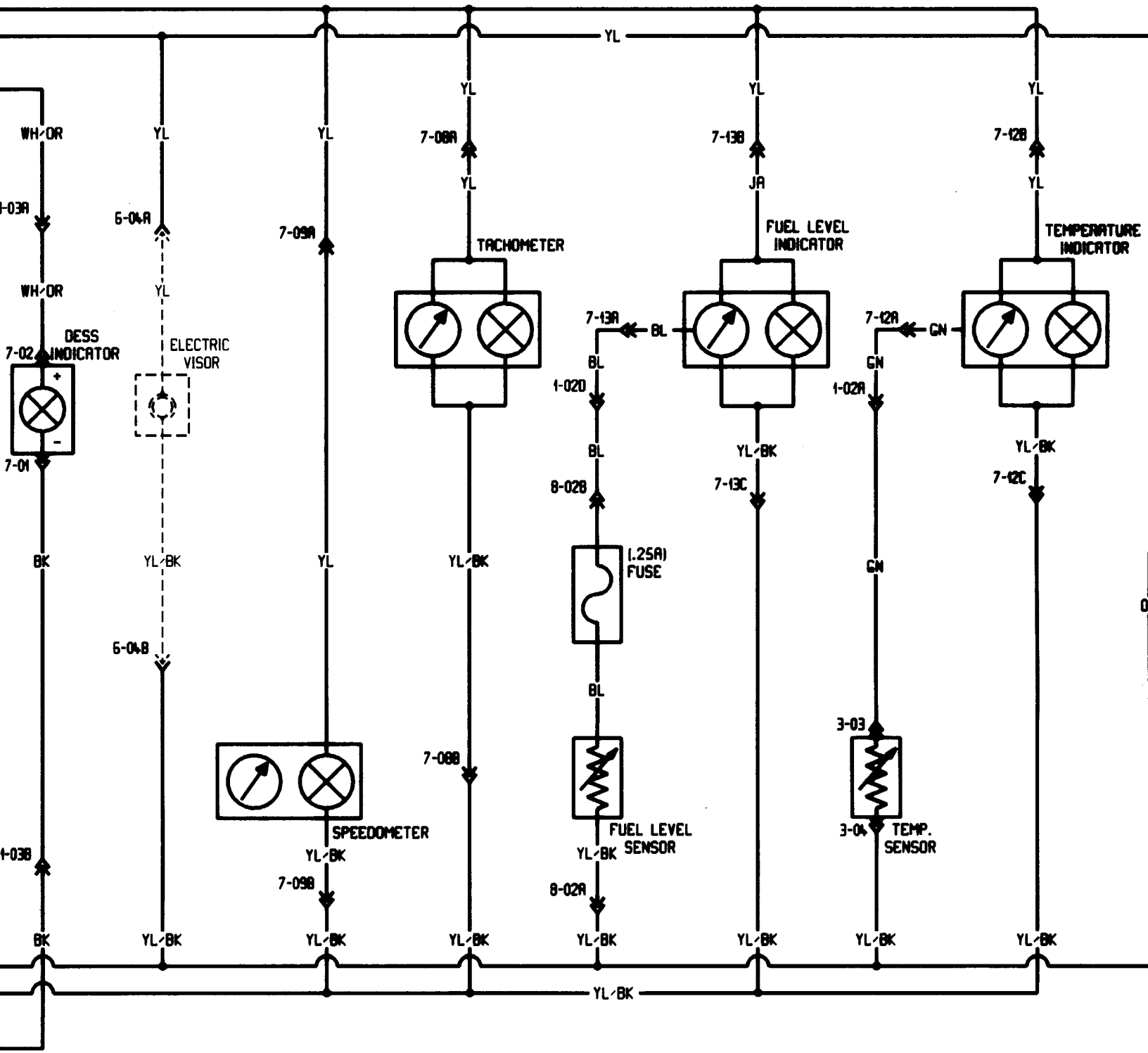
# '99 MACH Z (LT), MACH 1, FORMULA III 800 / 700 / 600



- CONNECTION EXIST ONLY WHEN USING REGULATOR WITHOUT BATTERY
- \*\* BENCH TEST IS NOT AVAILABLE ON FORMULA III 800 / 700 / 600

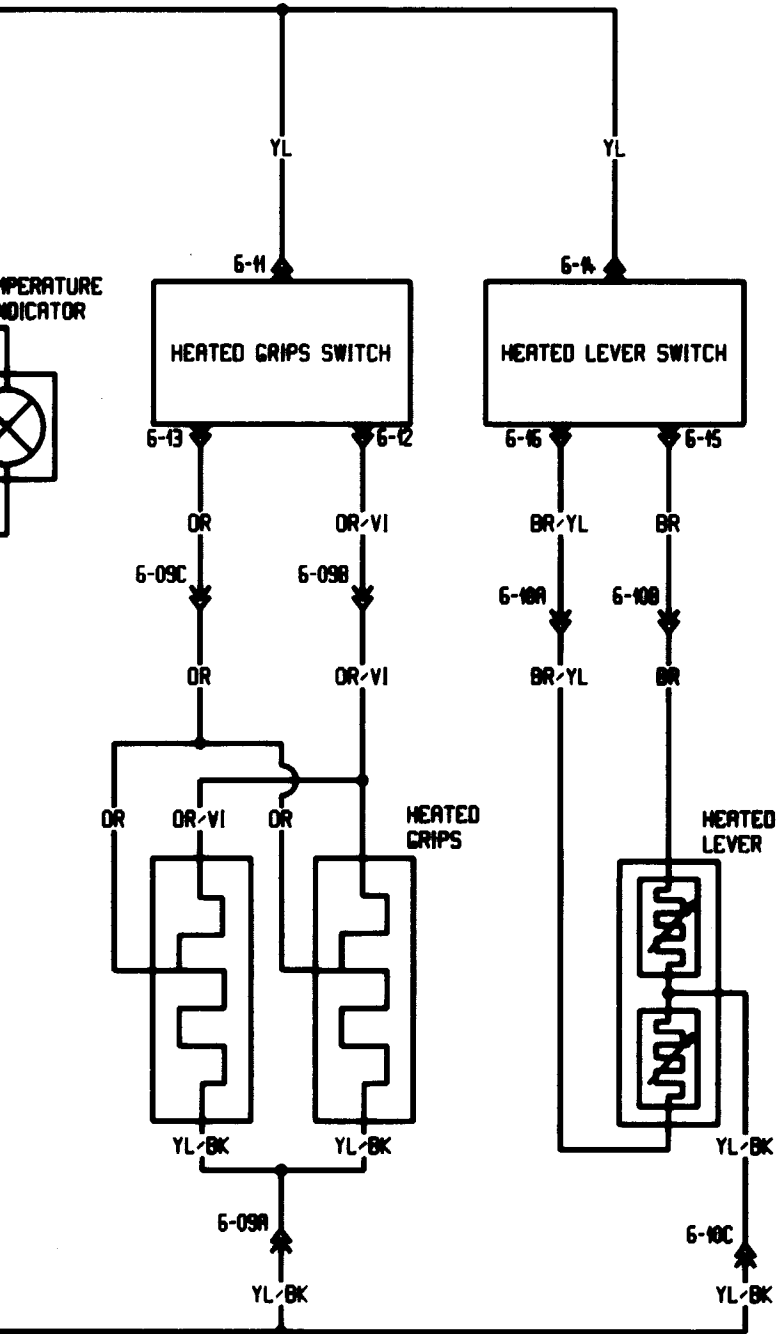






INSTRUMENTS





TEMPERATURE INDICATOR

HEATED GRIPS SWITCH

HEATED LEVER SWITCH

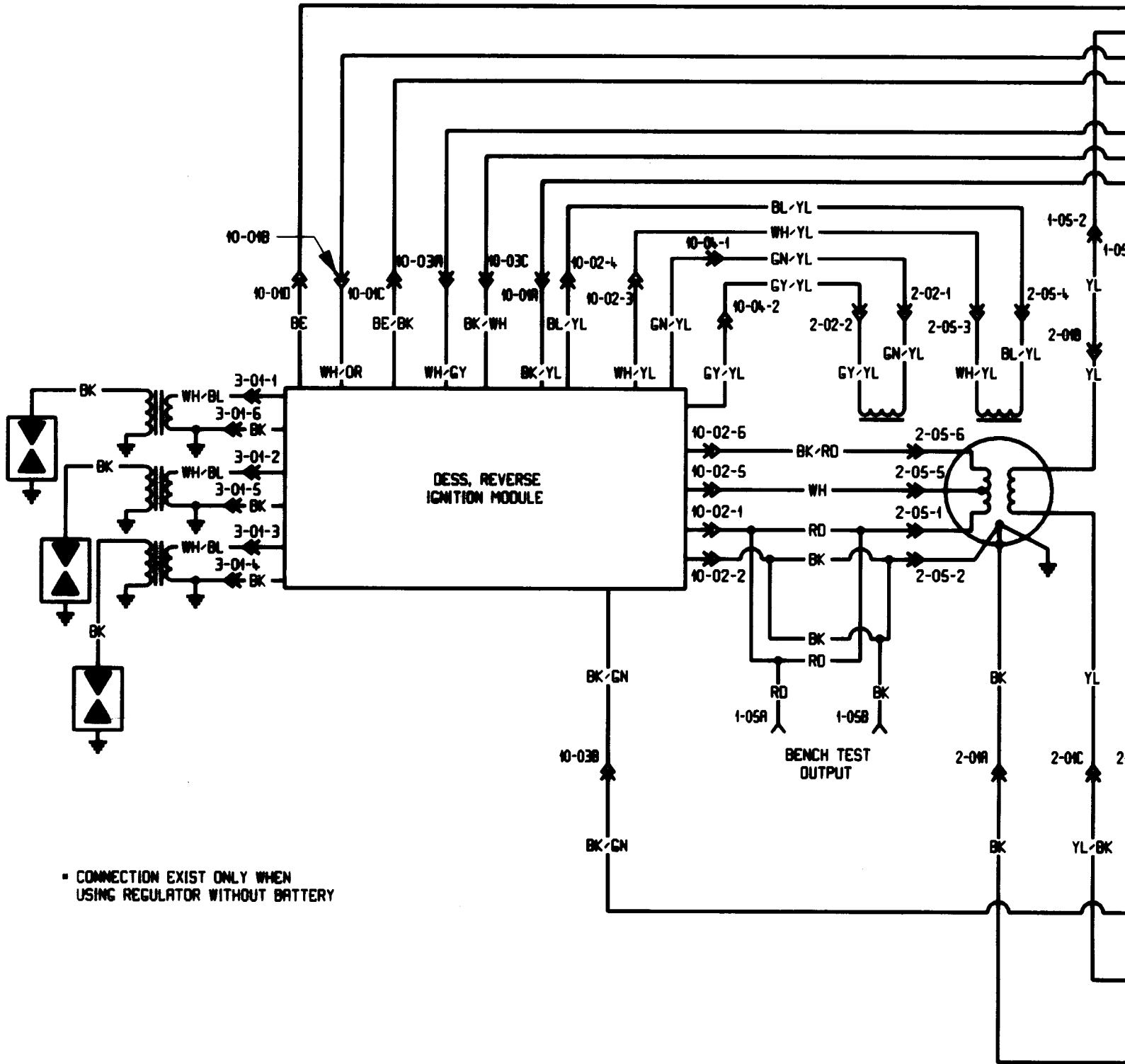
HEATED GRIPS

HEATED LEVER

HEATING ELEMENTS

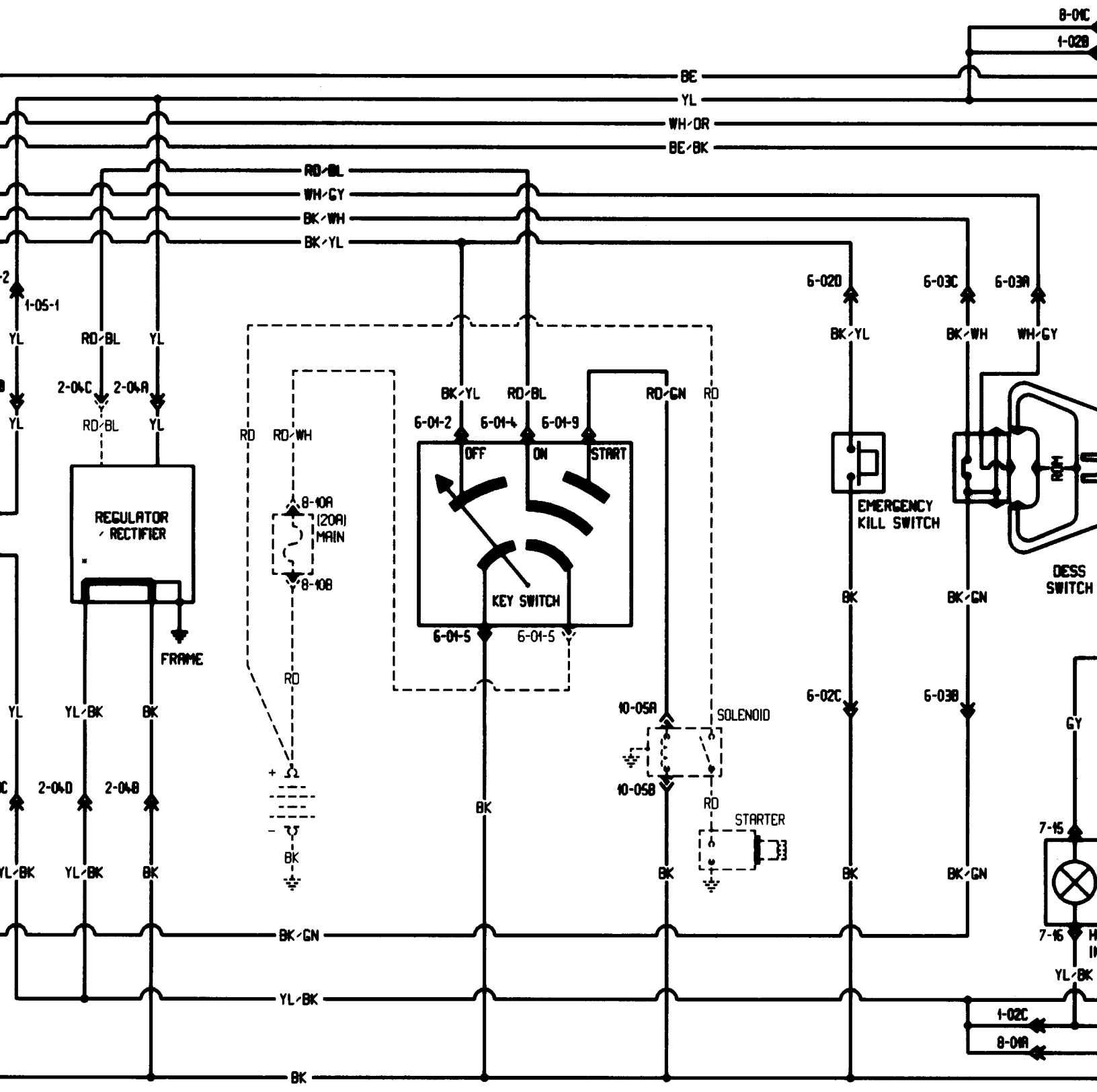
**ANNEX 2      MACH 1R/Z R/Z M.H. R/Z LT R**

'99 MACH 1 R, MACH Z R, MACH Z LT R, MACH Z M.H. R



CONNECTION EXIST ONLY WHEN USING REGULATOR WITHOUT BATTERY

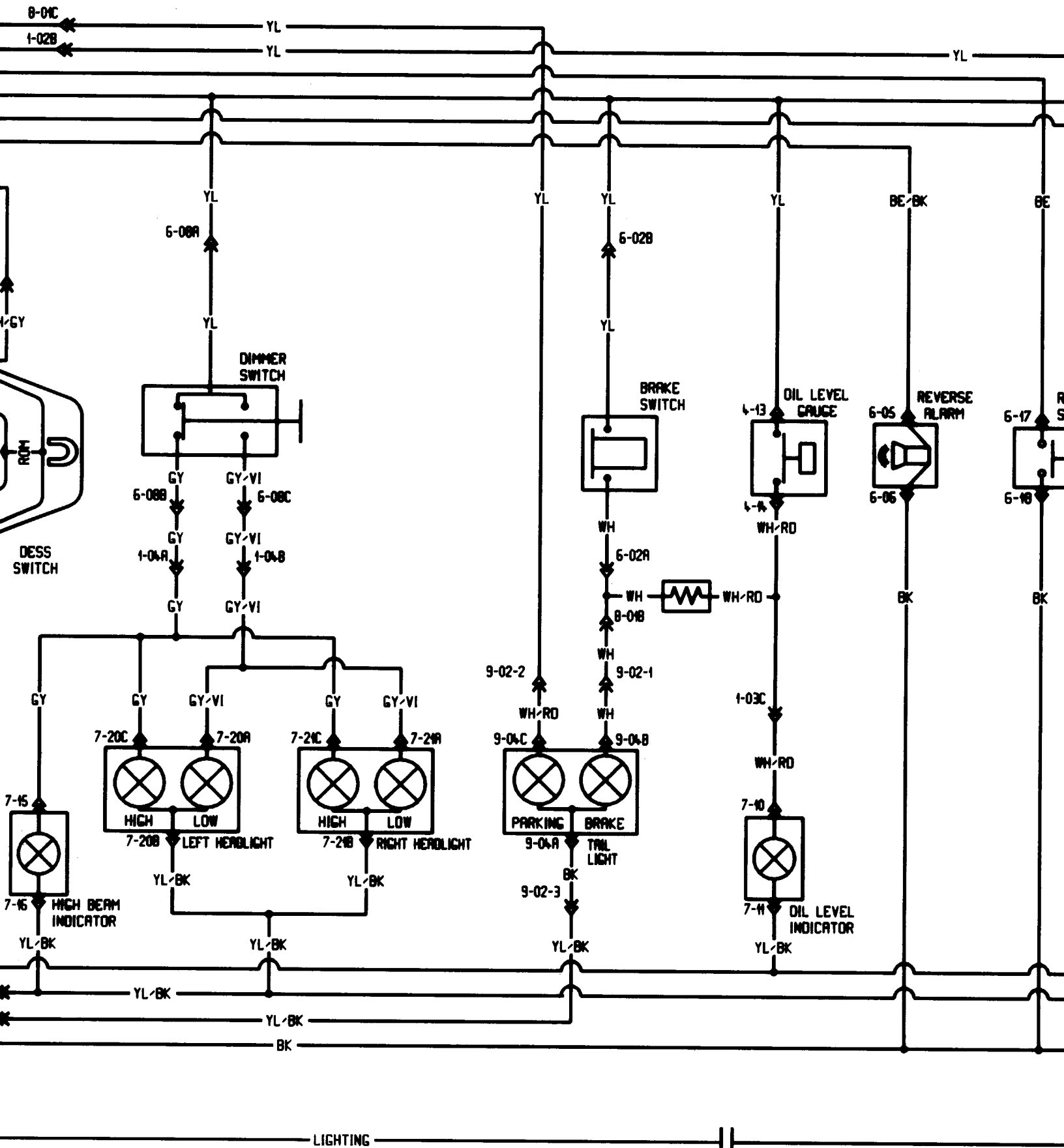
DESS, REVERSE IGNITION MODULE

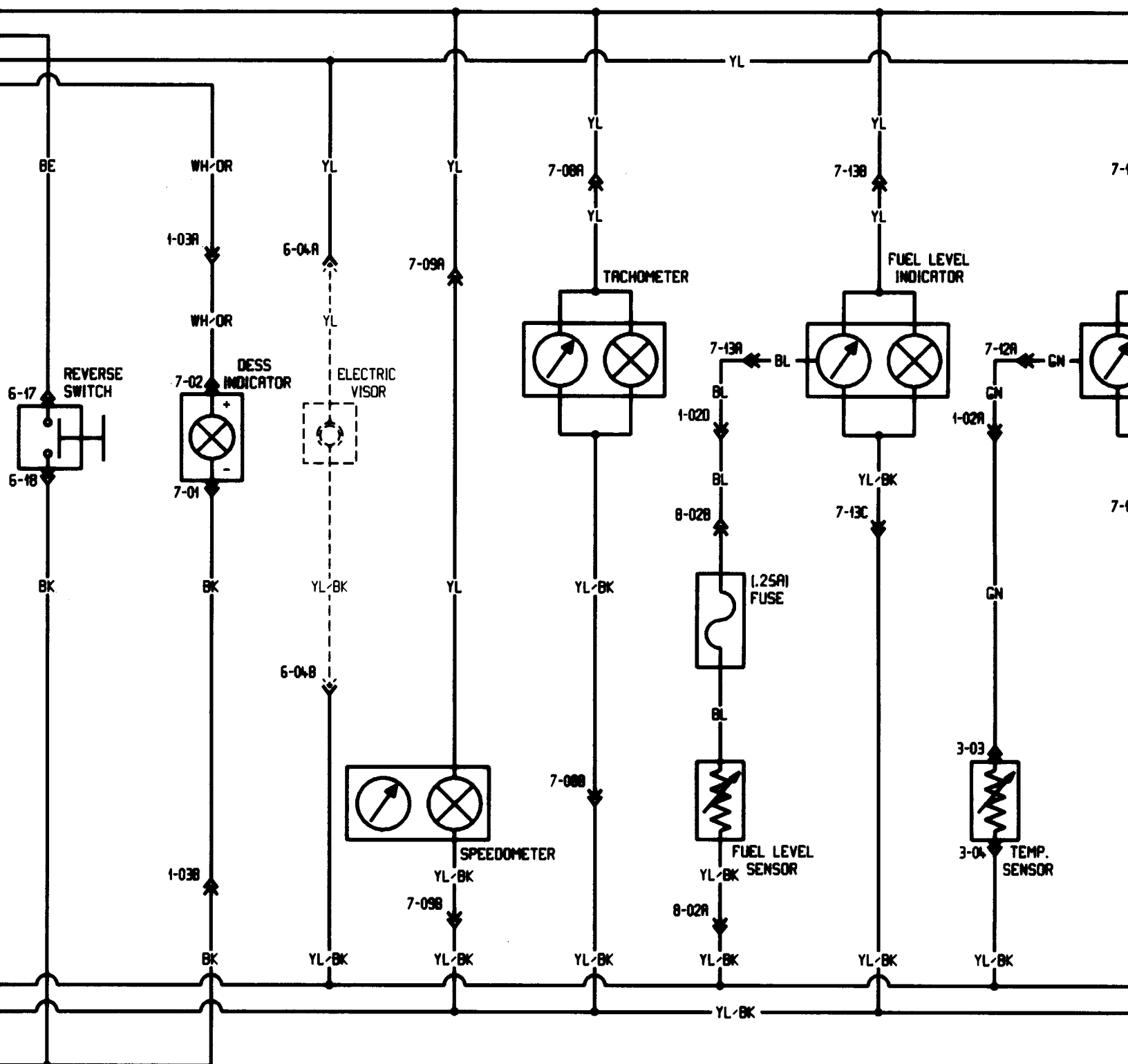


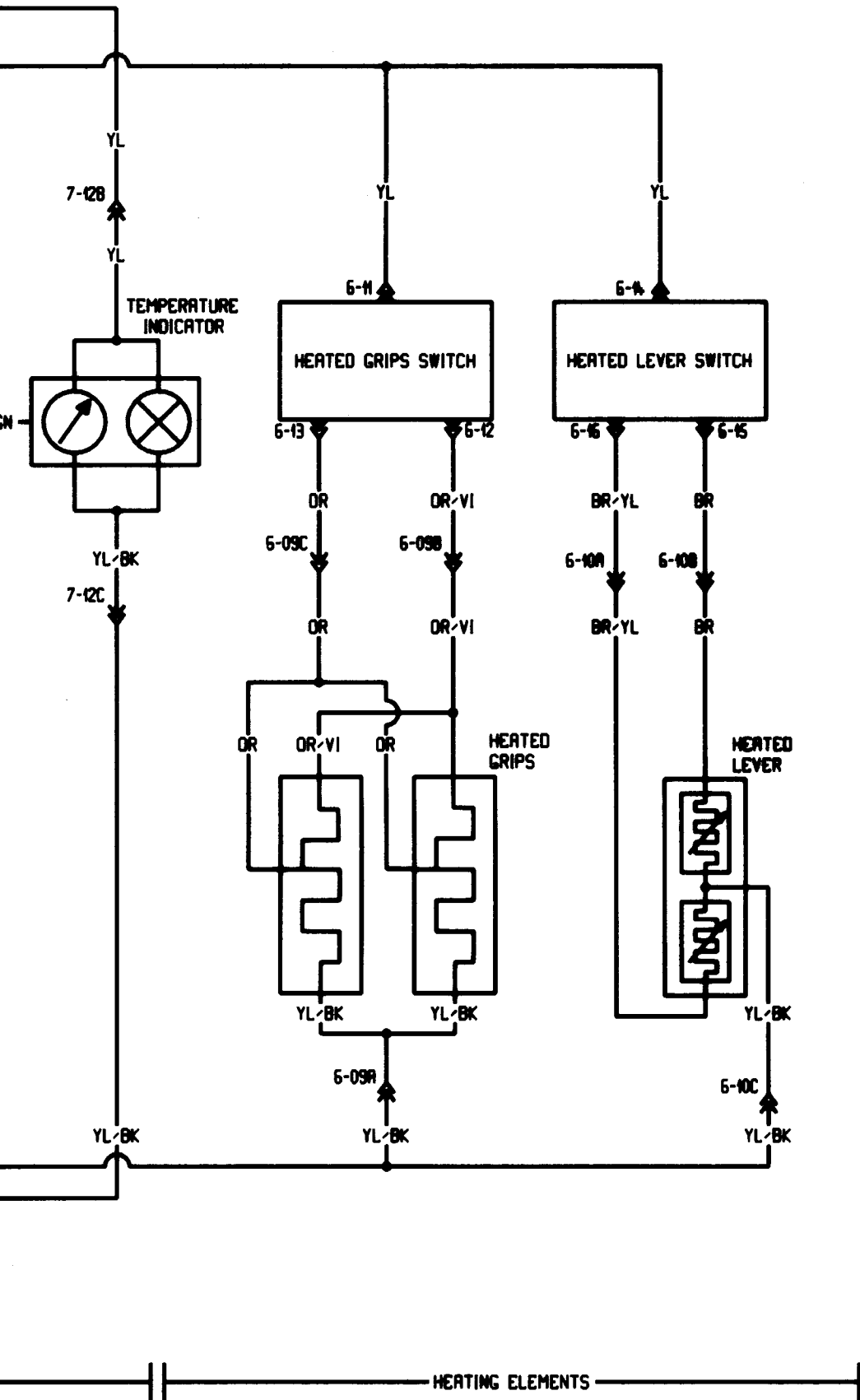
POWER SUPPLY SYSTEM

IGNITION SWITCHES





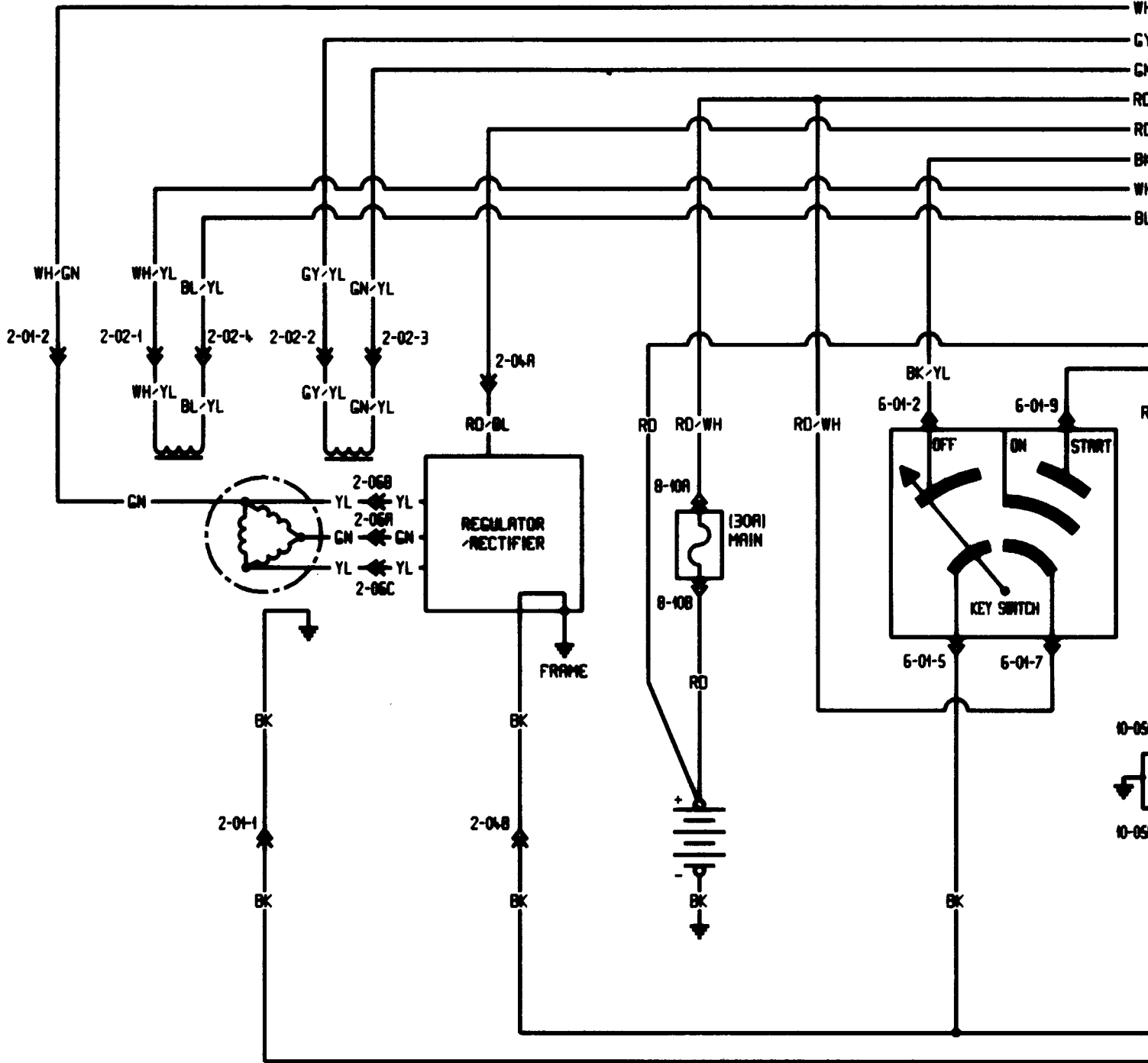


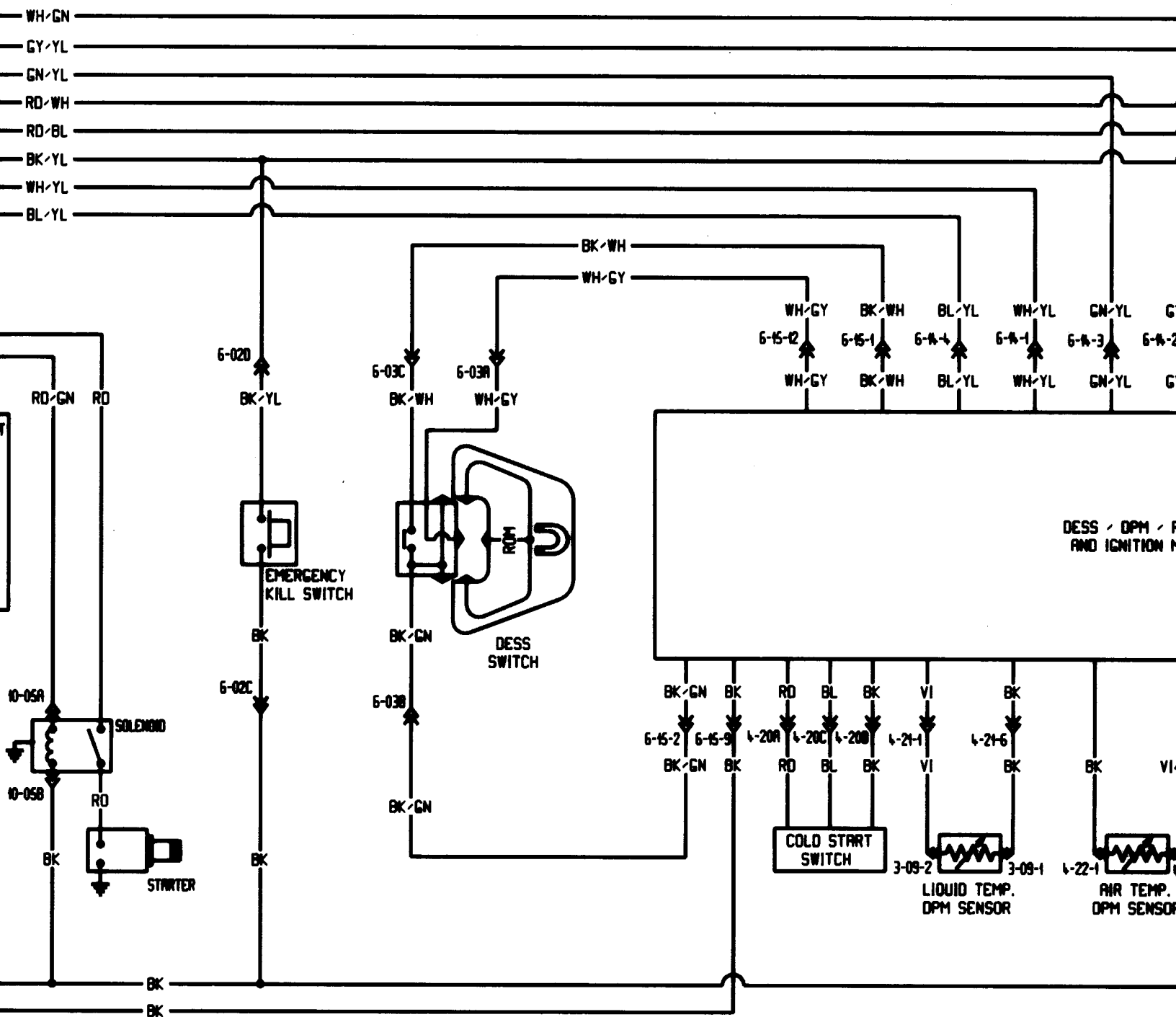


**ANNEX 3**

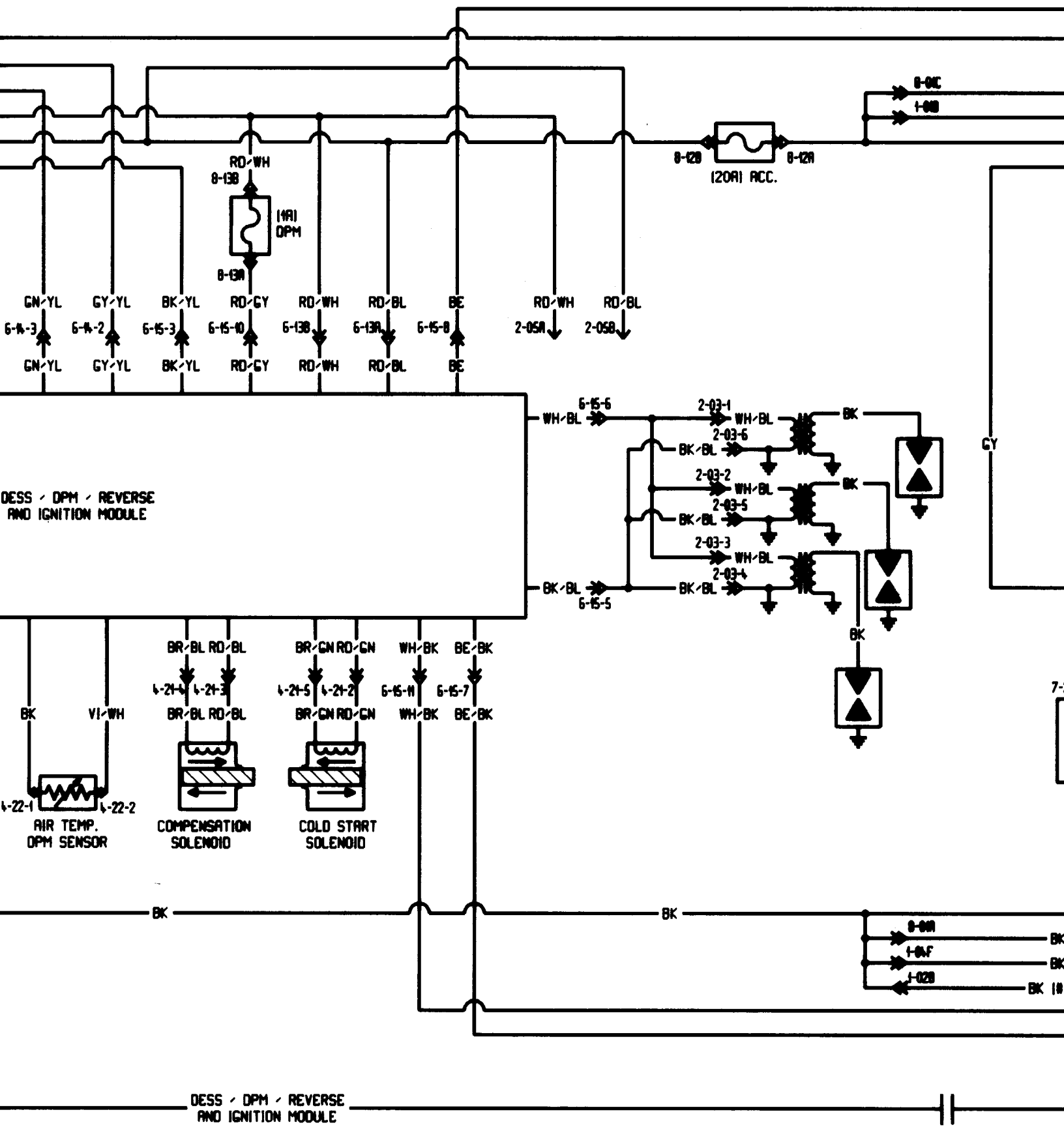
**GT 700**

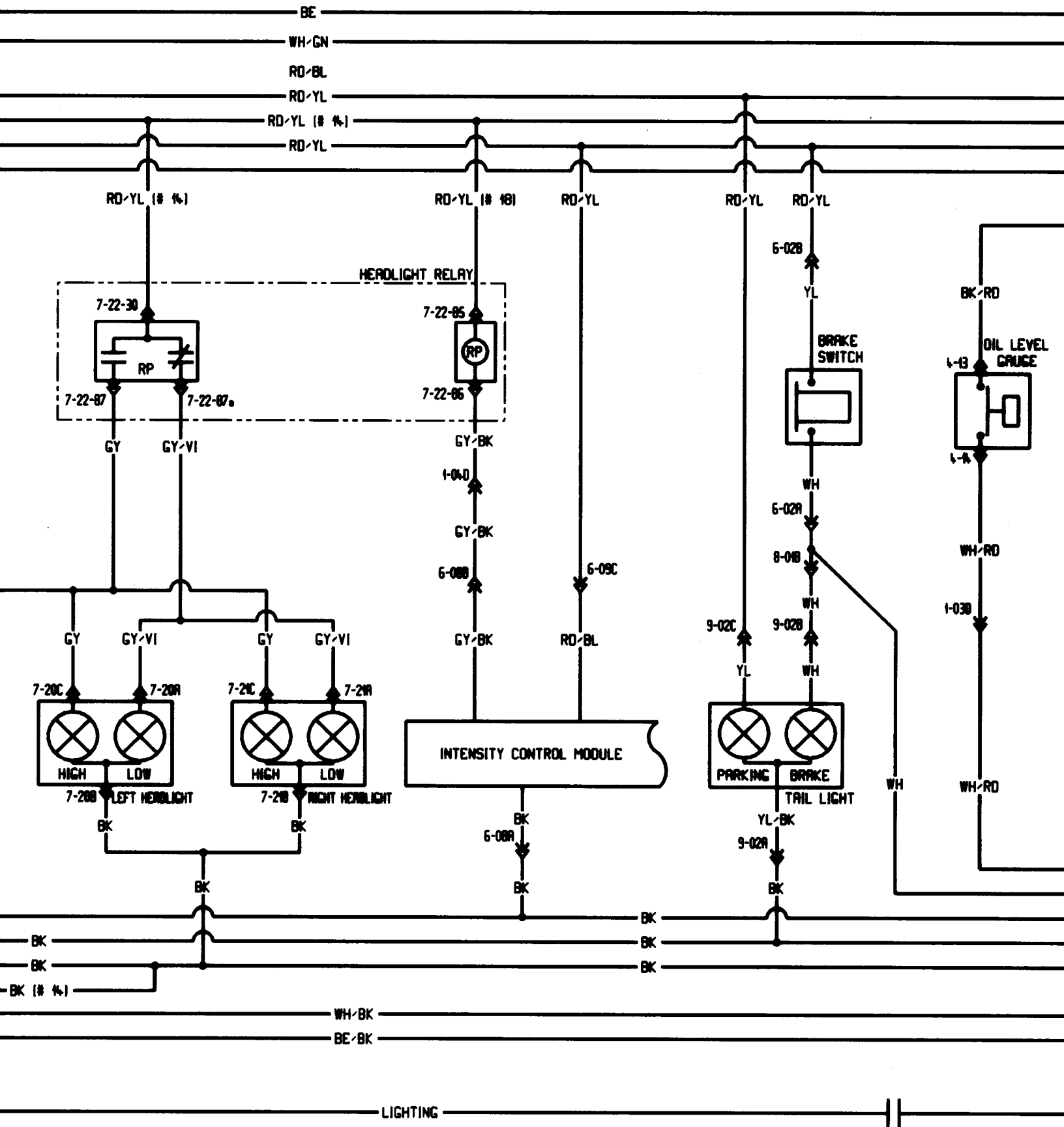
# '99 GRAND TOURING 700



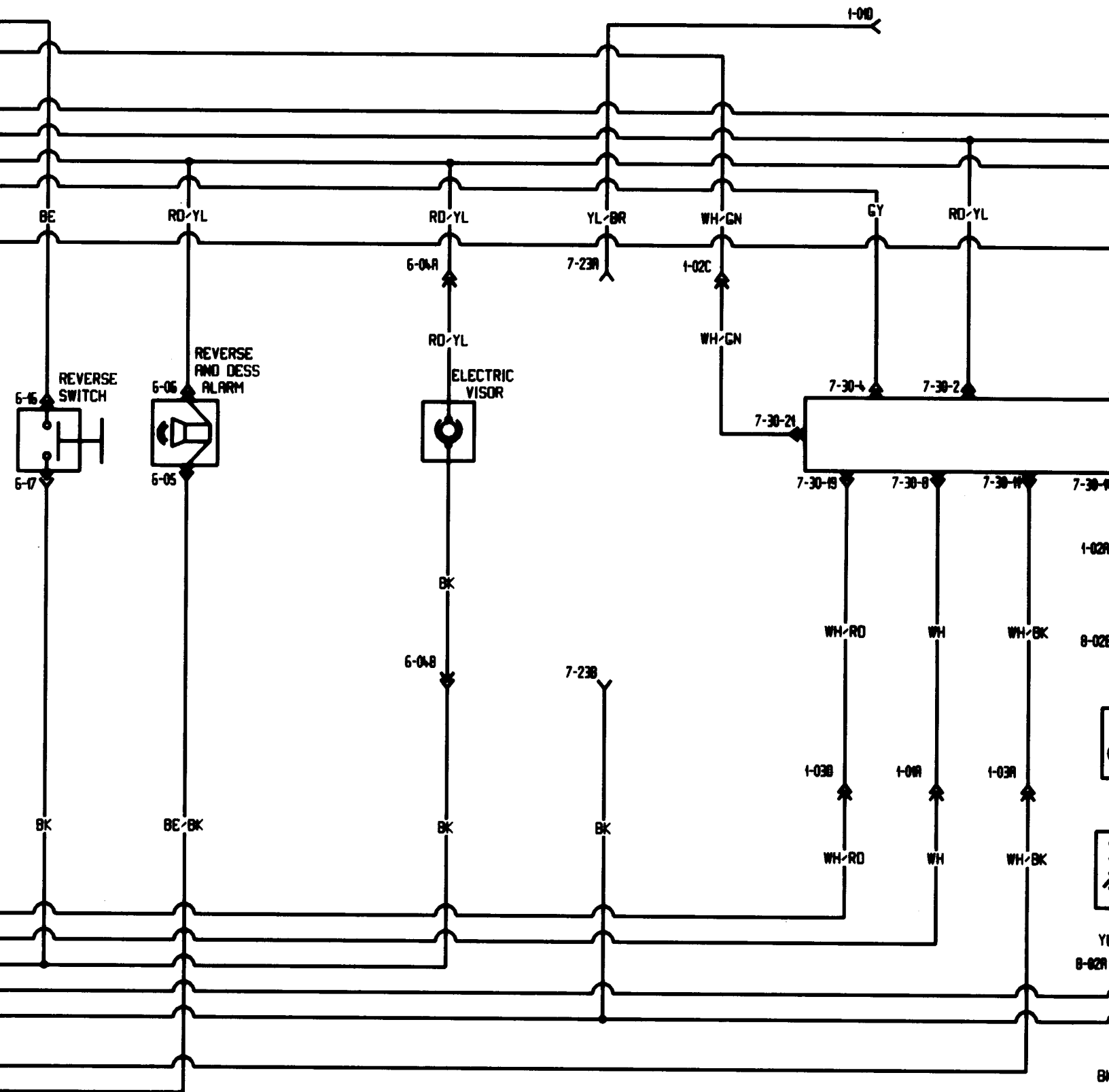


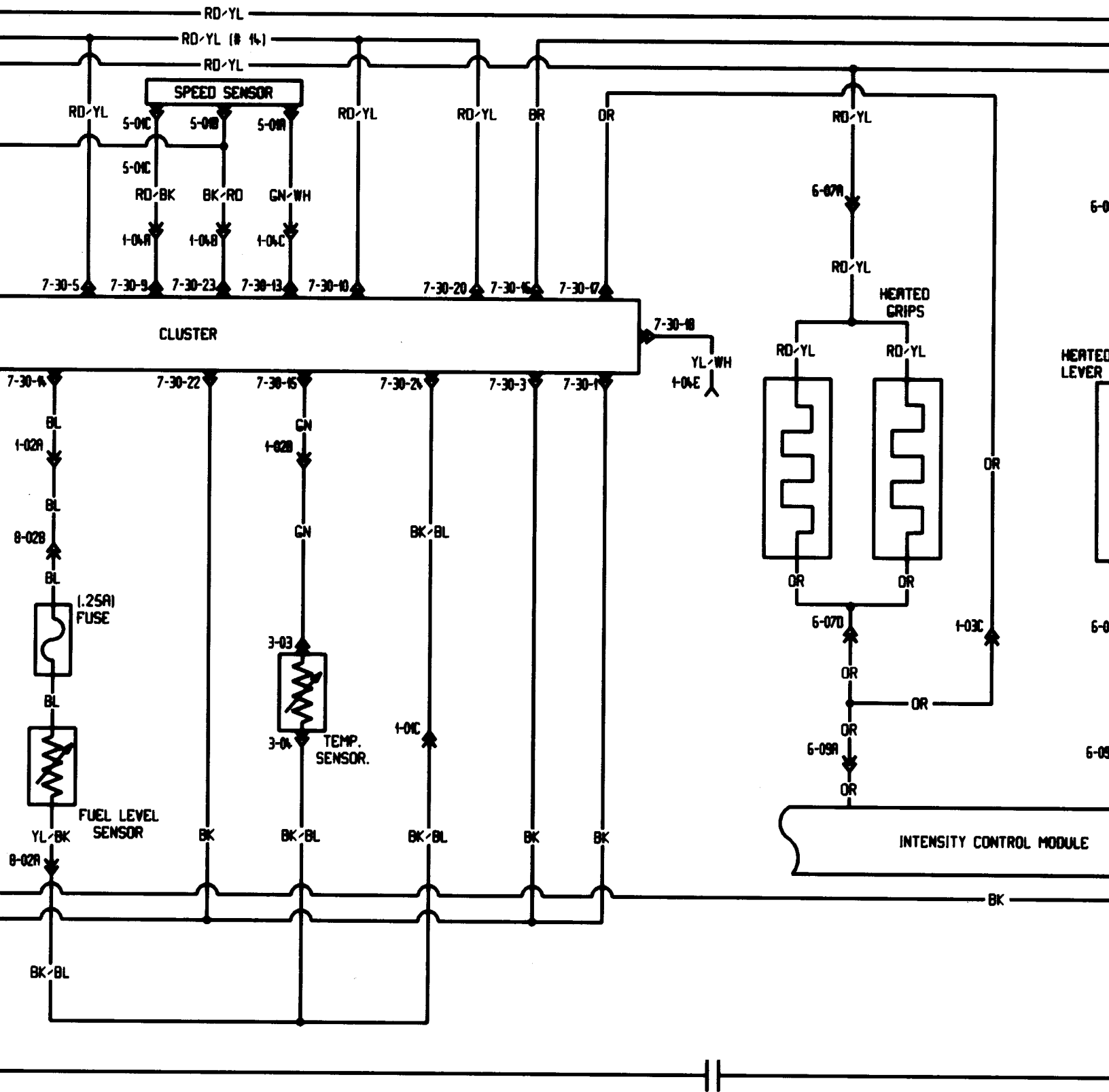
STARTER AND IGNITION SWITCHES

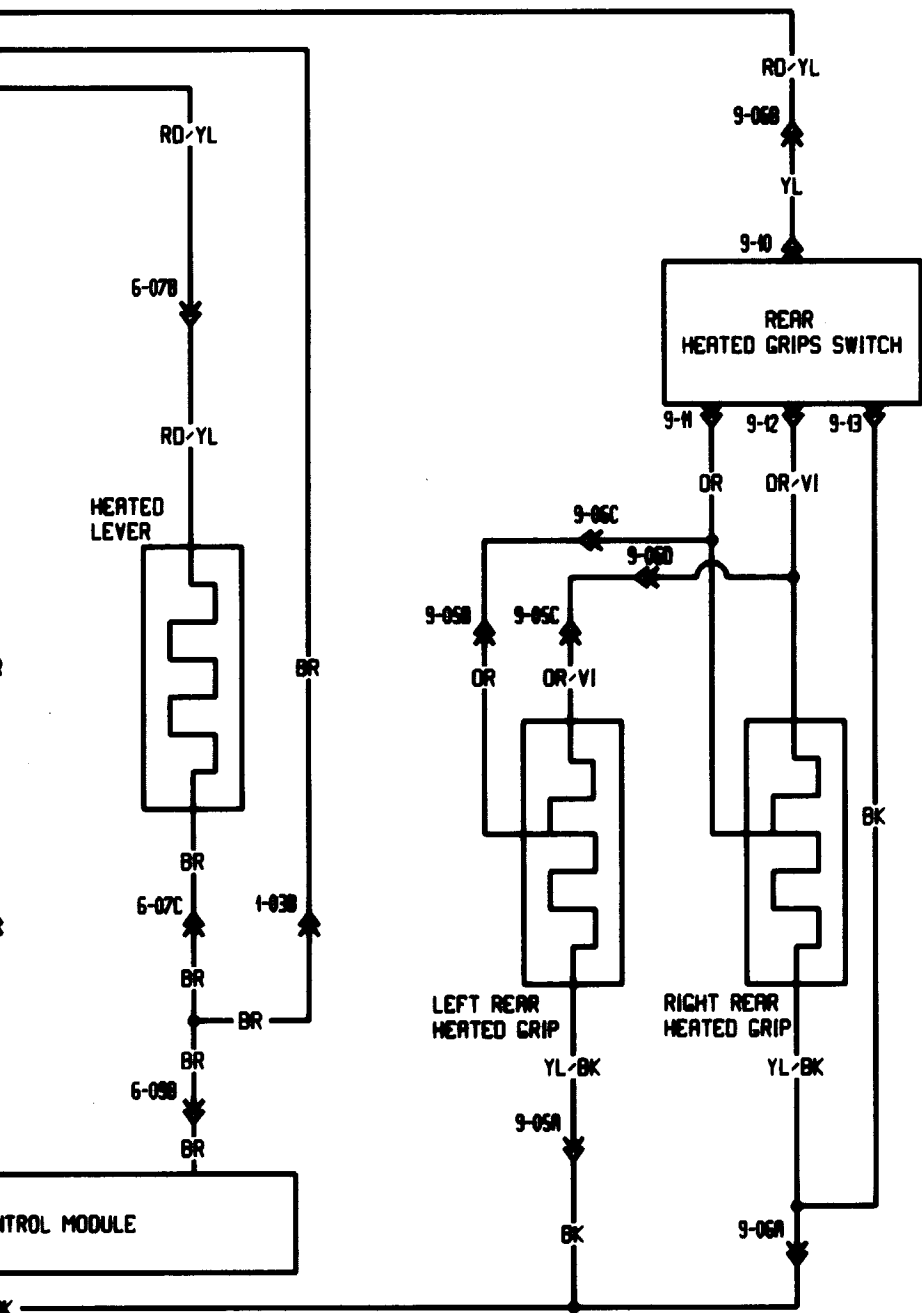










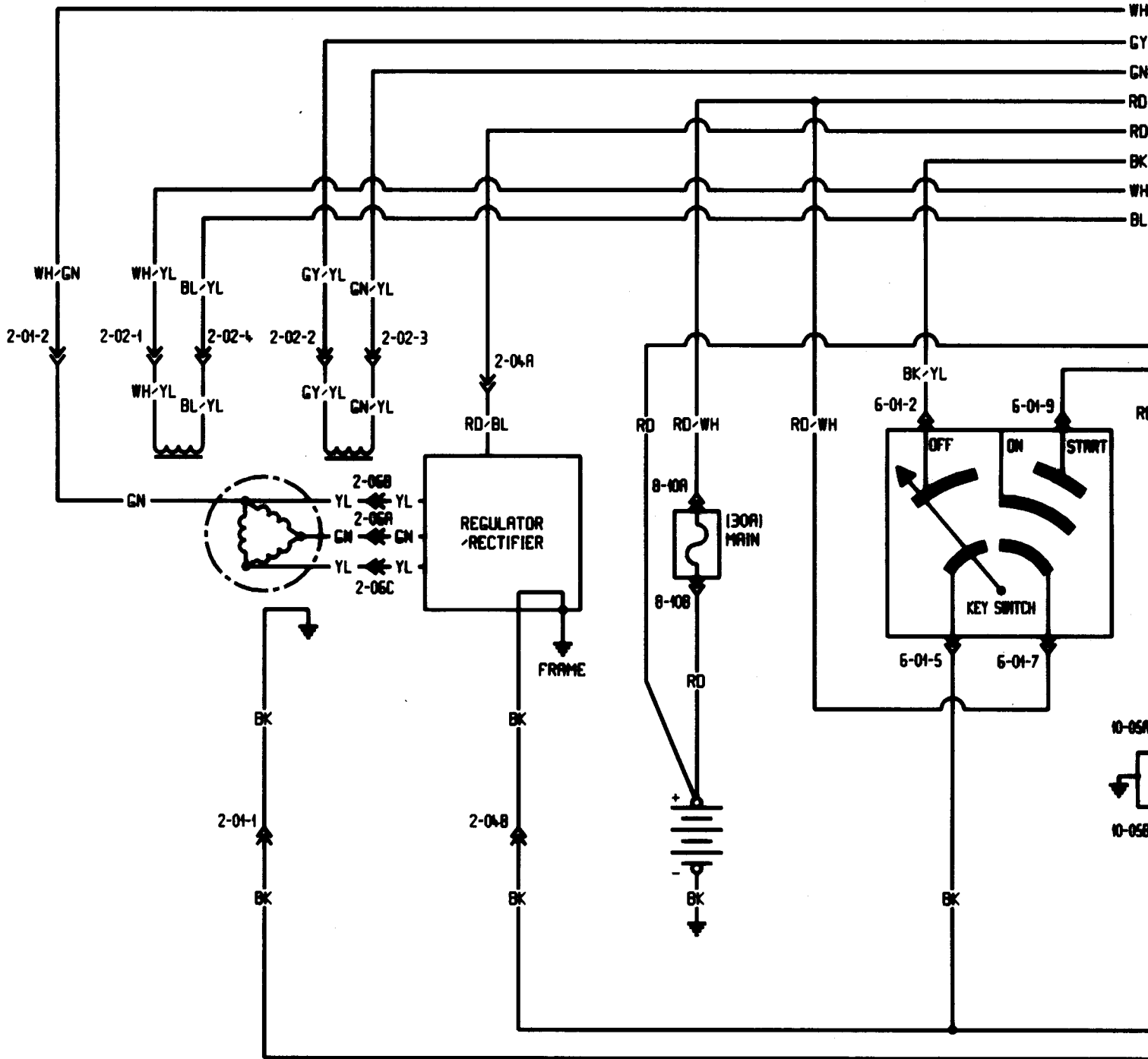


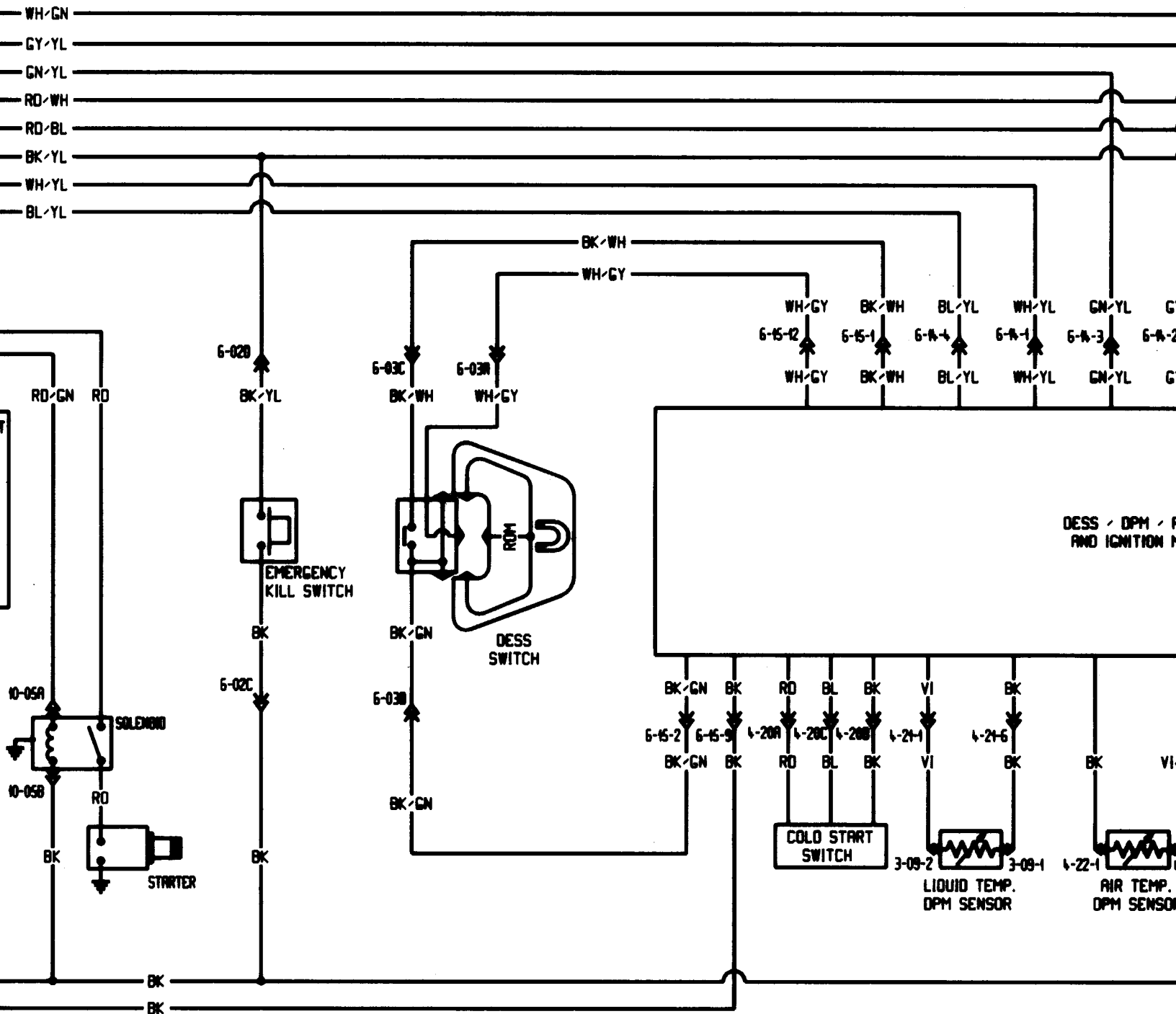
HEATING ELEMENTS

**ANNEX 4**

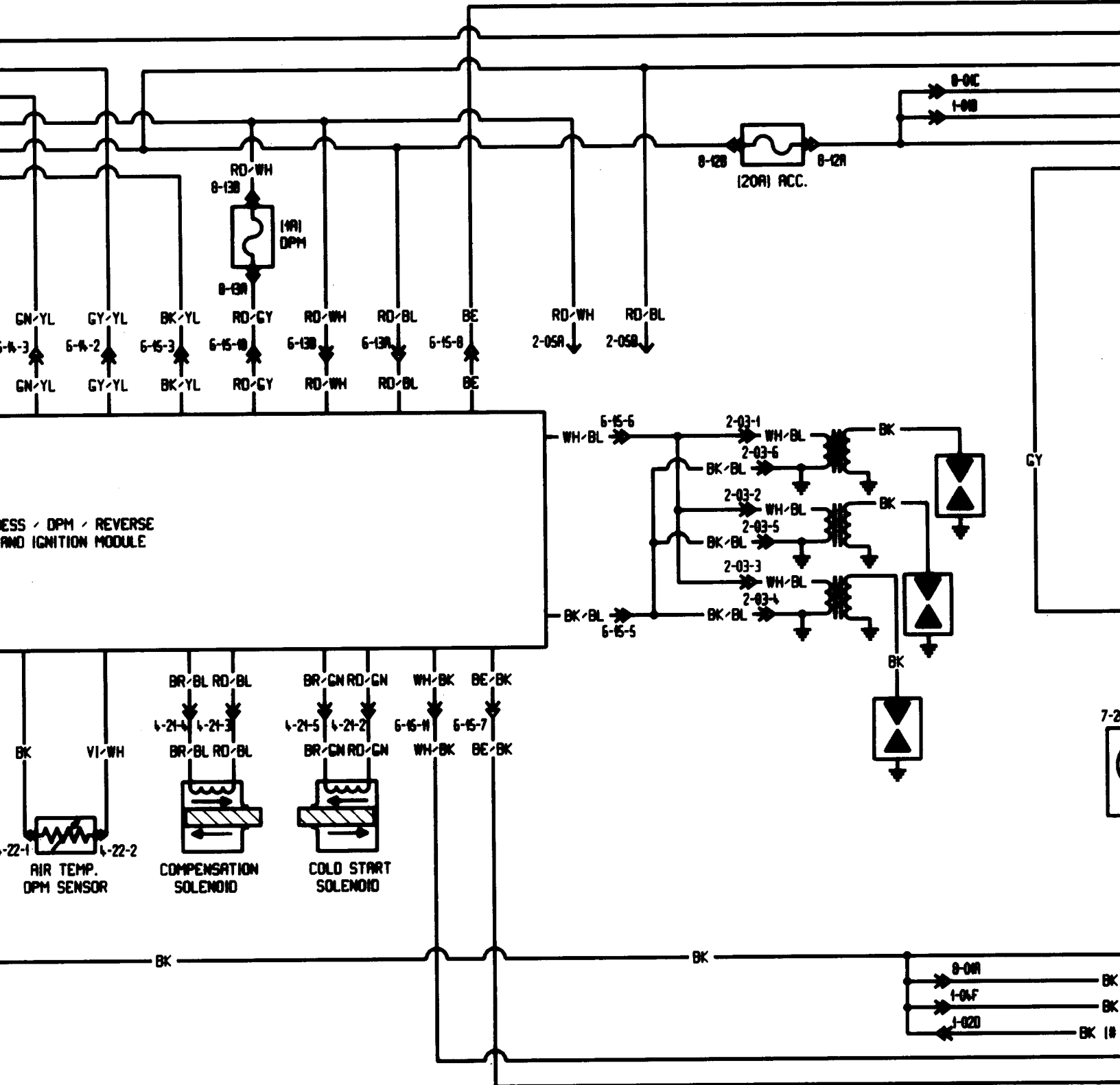
**GT SE**

# '99 GRAND TOURING SE

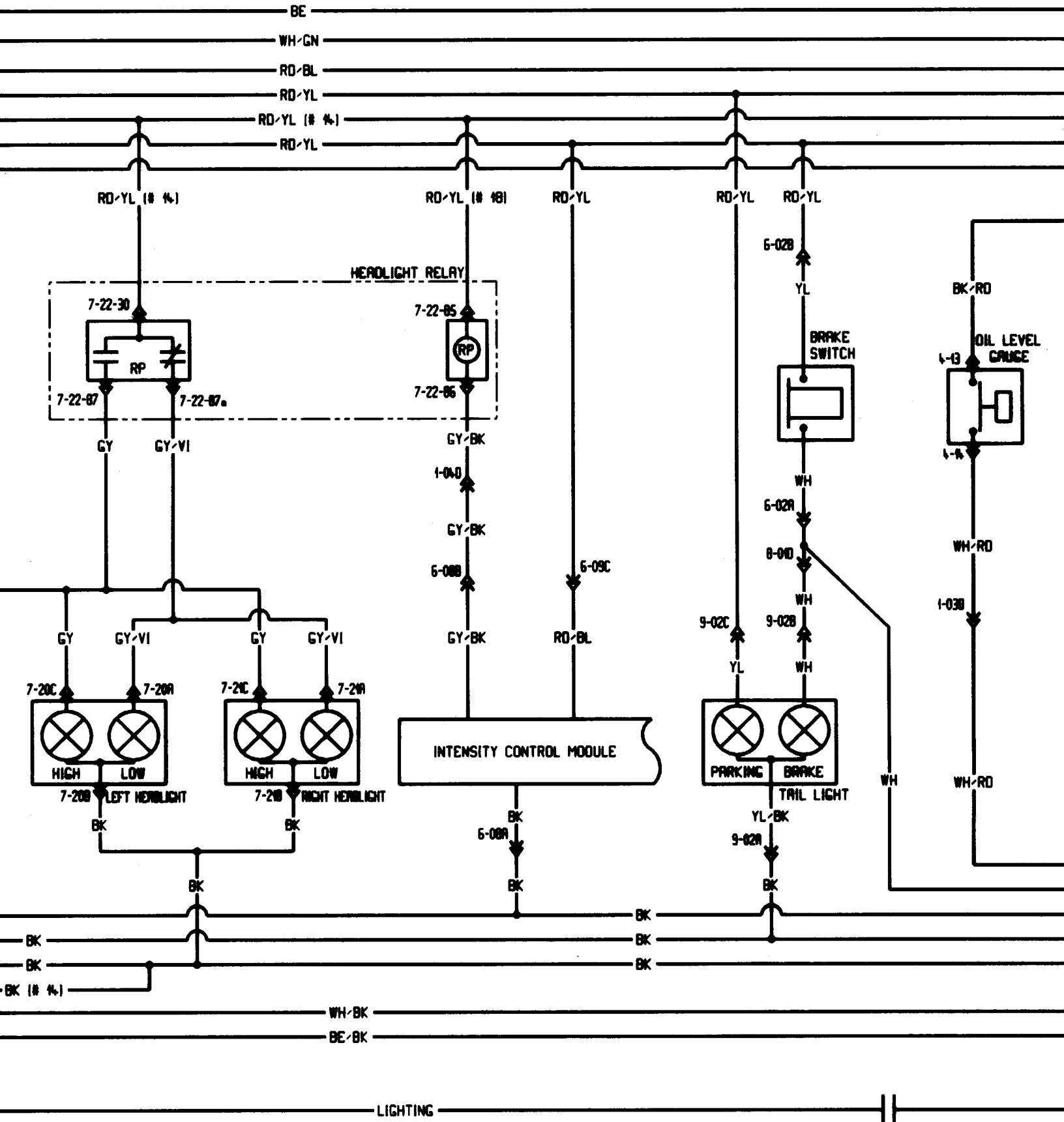




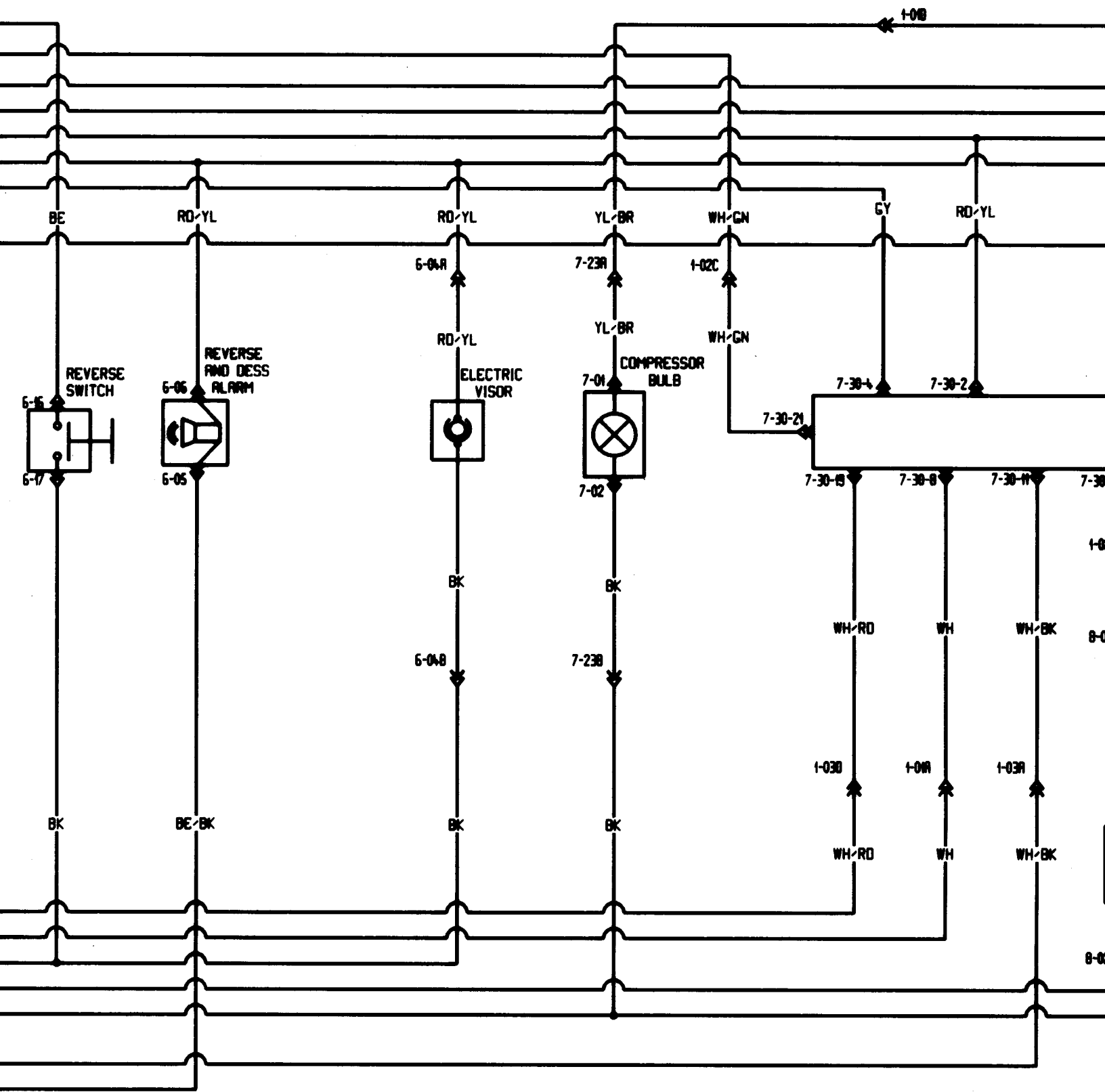
STARTER AND IGNITION SWITCHES

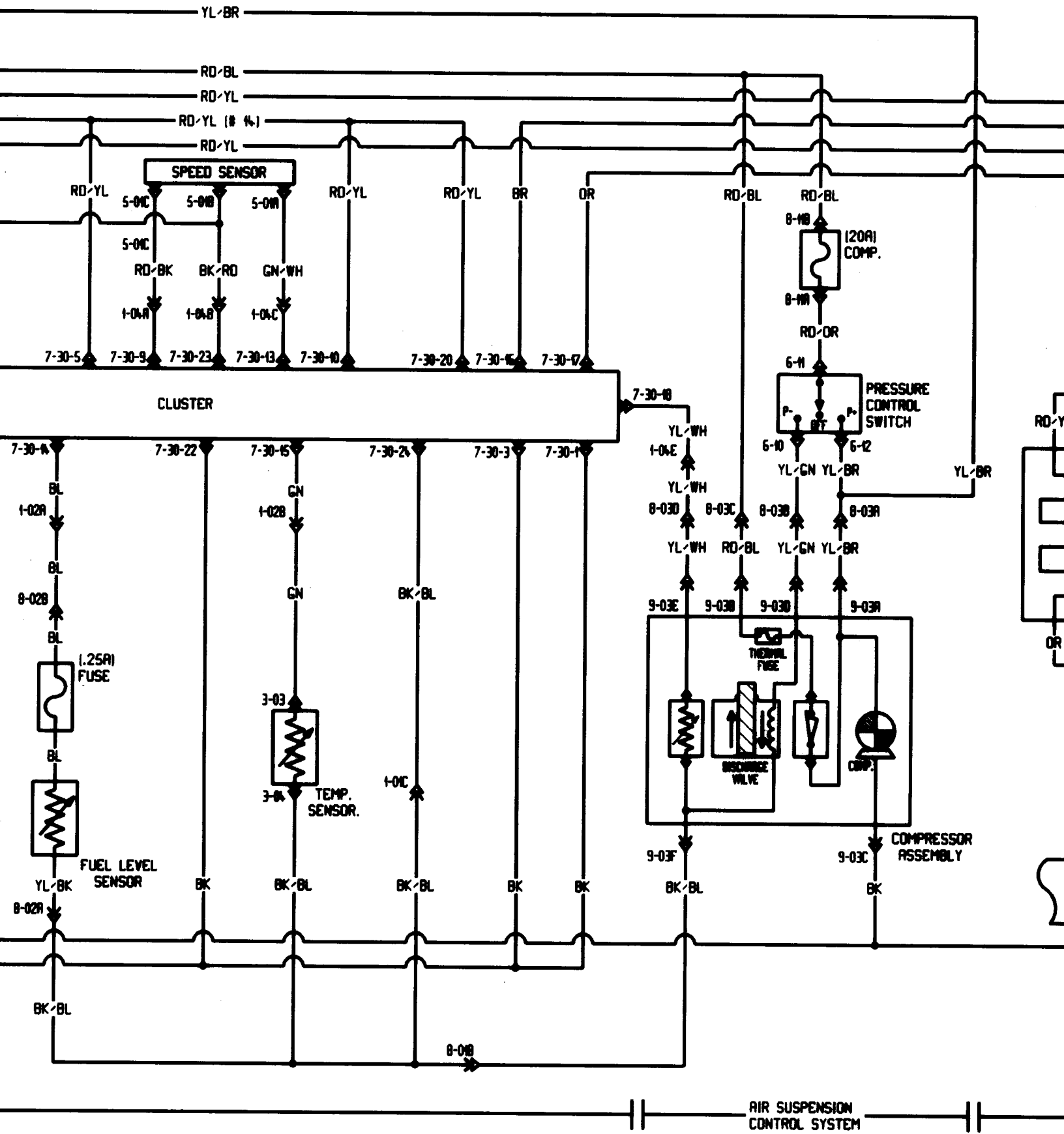


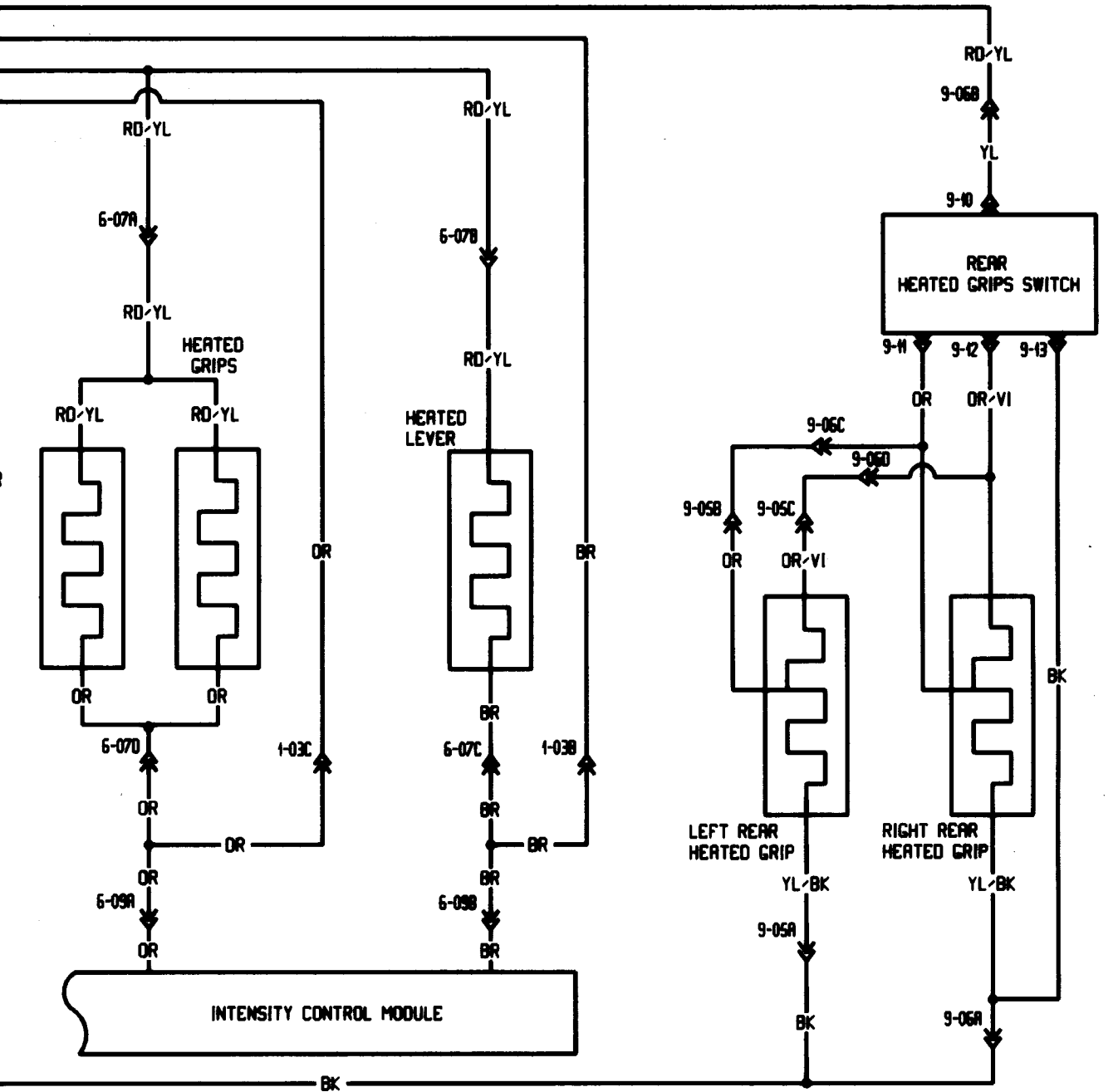
DESS / DPM / REVERSE AND IGNITION MODULE







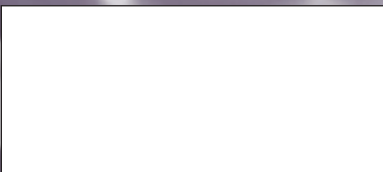




HEATING ELEMENTS



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*RECREATIONAL PRODUCTS*



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*VERSION FRANÇAISE ÉGALEMENT DISPONIBLE*