

# WIRING DIAGRAMS

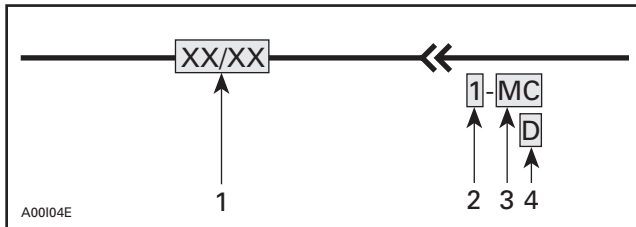
MODEL	WIRING DIAGRAM PAGE	HEADLIGHT (WATT)	TAILLIGHT (WATT)	ELECTRICAL SYSTEM OUTPUT (WATT)
Tundra R	Annex 1	60/55 hal.	8/27	240
Skandic 380/500	Annex 2	60/55 hal.	8/27	240
Formula S MX Z 440	Annex 3	60/55 hal.	8/27	240
Formula DLX 380/500 Touring E/LE/SLE	Annex 4	60/55 hal.	8/27	220
Formula 500 LC	Annex 5	60/55 hal.	8/27	220
Touring 500 LC Formula DLX 500 LC	Annex 6	60/55 hal.	8/27	220
Skandic WT/SWT	Annex 7	60/55 hal.	8/27	240
Skandic WT LC	Annex 8	60/55 hal.	8/27	220

hal. = halogen

## WIRING DIAGRAM LEGEND

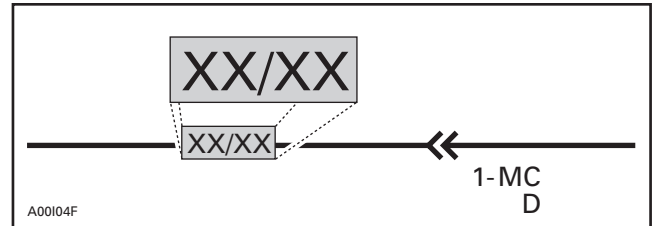
**⚠ WARNING**

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



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

## WIRE COLORS AND CIRCUIT



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

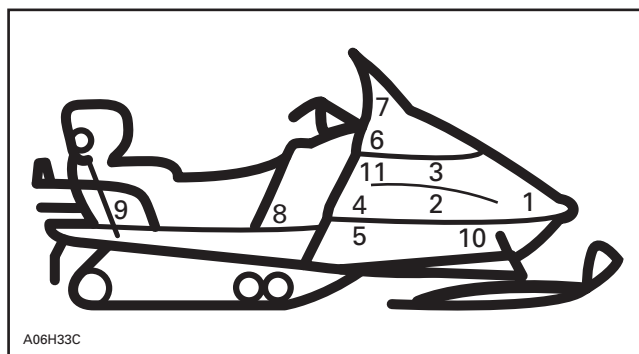
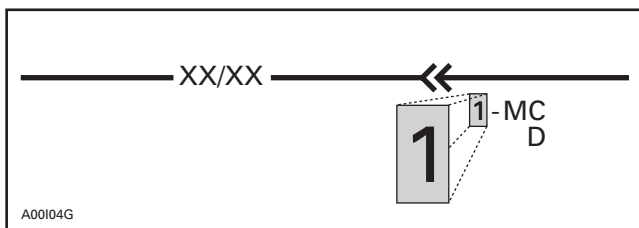
## Section 11 WIRING DIAGRAMS

### Subsection 01 (WIRING DIAGRAMS)

Following table shows wire colors related to electrical circuits.

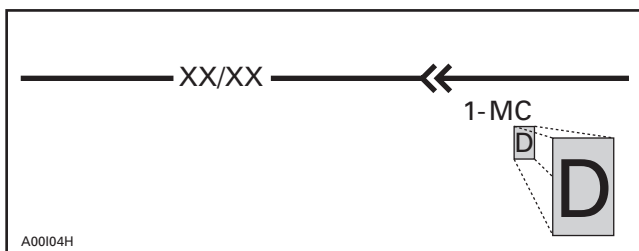
WIRE COLOR	ELECTRICAL CIRCUIT	ADDITIONAL INFORMATION
BLACK/YELLOW	ENGINE SHUT OFF – key switch – tether cord switch – emergency switch	Must be grounded to stop engine.
BLACK (small)	Ground for shut off, RER pilot lamp, beeper and beeper switch	
BLACK (big)	Ground for starter (–)	
BEIGE	RER switch	Must be grounded to activate RER.
BEIGE/BLACK	Reverse alarm and pilot lamp	Current returns by BLACK wire.
YELLOW YELLOW/BLACK	12 volts (AC)	If shorted, magneto stops producing electricity.
RED	12 volts (DC) (+) For starter motor	
RED/GREEN	12 volts (DC) (+) For starter solenoid	
RED/BLUE	12 volts (DC) (+) Rectifier output	
GREY	12 volts (AC) High beam	Current returns by YELLOW/BLACK wire connected to headlamp.
VIOLET/GREY	12 volts (AC) Low beam	
WHITE	12 volts (AC) Brake light	Current returns by YELLOW/BLACK wire connected to taillight.
WHITE/RED	12 volts (AC) Low oil level	Current returns by YELLOW/BLACK wire connected to oil level sensor.
BLUE	12 volts (AC) Fuel level indicator	Current returns by YELLOW wire connected to fuel level sensor.
ORANGE	12 volts (AC) Heated grips (max.)	Current returns by YELLOW/BLACK wire connected to heating elements.
ORANGE/VIOLET	12 volts (AC) Heated grips (min.)	
BROWN	12 volts (AC) Heated throttle lever (max.)	
BROWN/YELLOW	12 volts (AC) Heated throttle lever (min.)	
GREEN	12 volts (AC) Temperature gauge	Current returns by YELLOW wire connected to sensor.
VIOLET	12 volts (AC) Engine overheating light	

## CONNECTOR HOUSING AREA



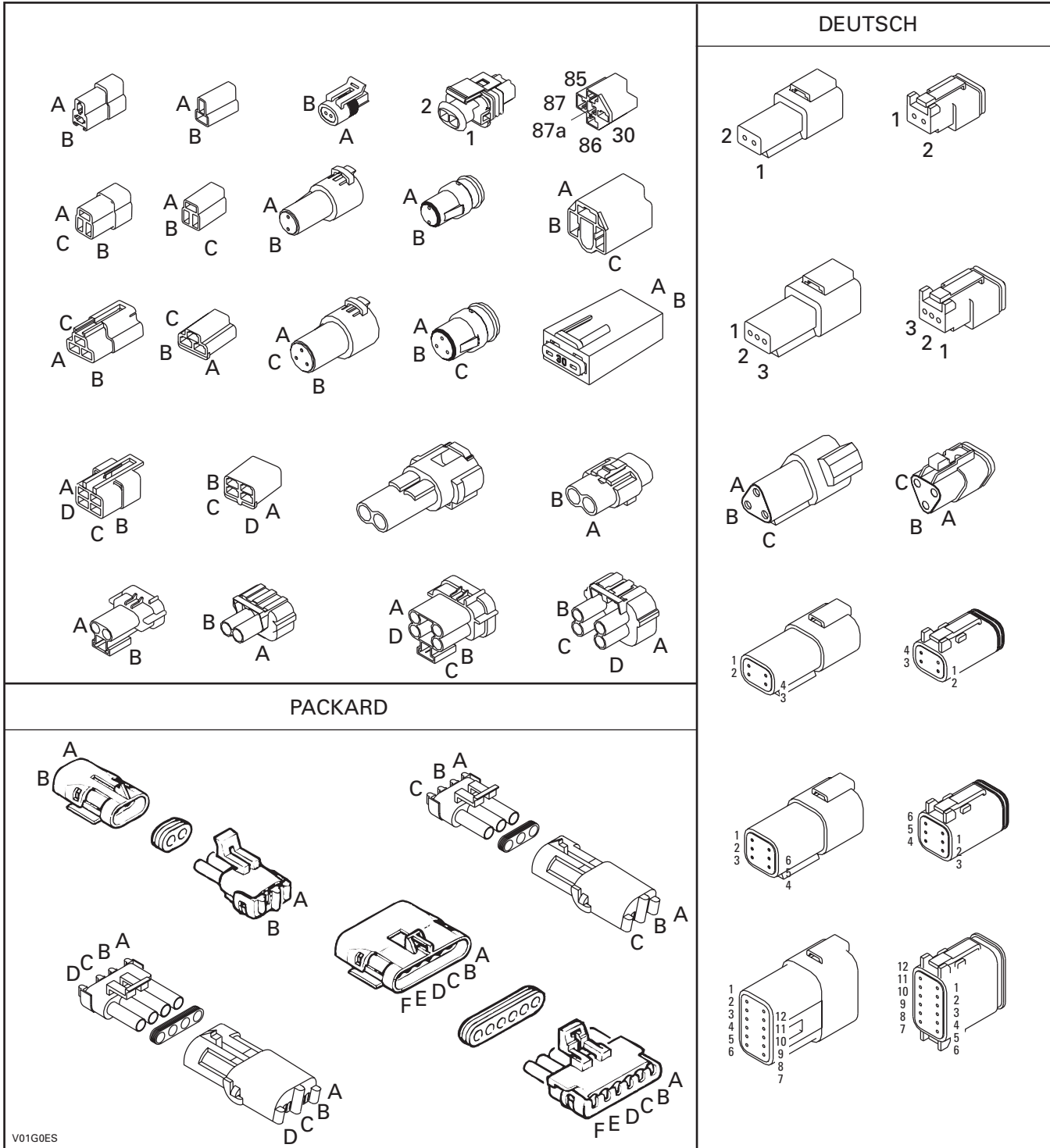
AREA	LOCATION
1	Front of engine compartment
2	Magneto
3	Carburetors
4	Near of intake silencer
5	Near driven pulley
6	Under console
7	Under hood
8	Near fuel tank
9	Rear of seat
10	Under engine
11	On injection oil reservoir

## CONNECTOR LOCATION IN HOUSING



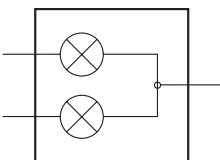


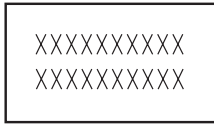
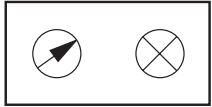

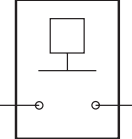

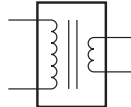
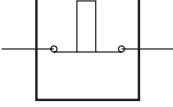
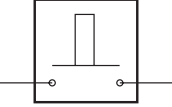





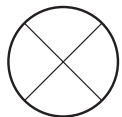
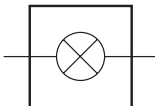
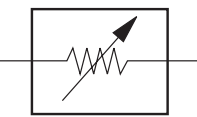
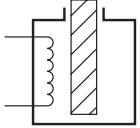

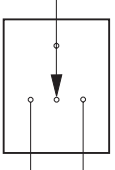
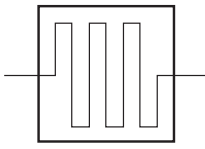
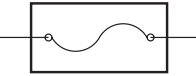

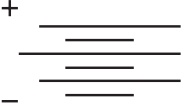


# Section 11 WIRING DIAGRAMS

## Subsection 01 (WIRING DIAGRAMS)



V01G0ES

**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</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> 

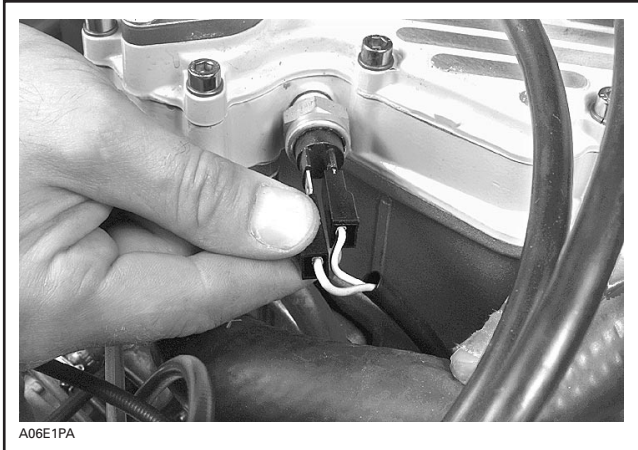
A00E55S

## Section 11 WIRING DIAGRAMS

### Subsection 01 (WIRING DIAGRAMS)

## UNPLUGGING CONNECTORS

Always unplug connectors by pulling on housing not on wire.

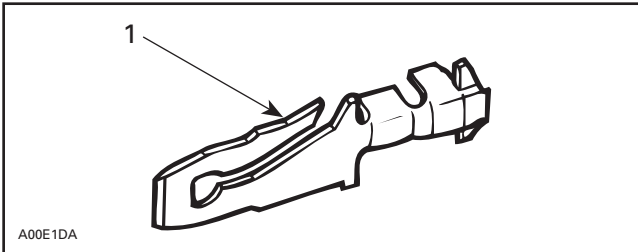


TYPICAL

## 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.

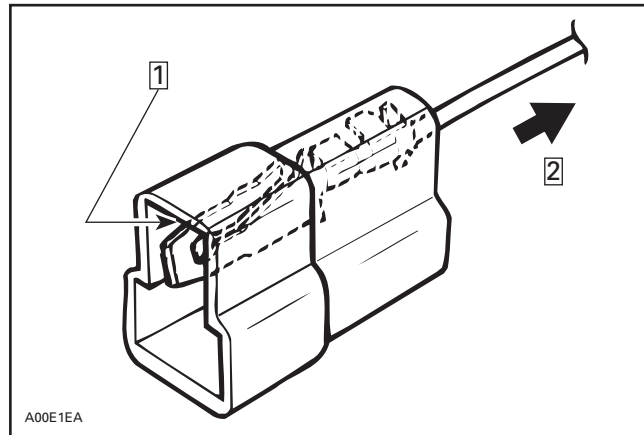


TAB CONNECTOR

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.



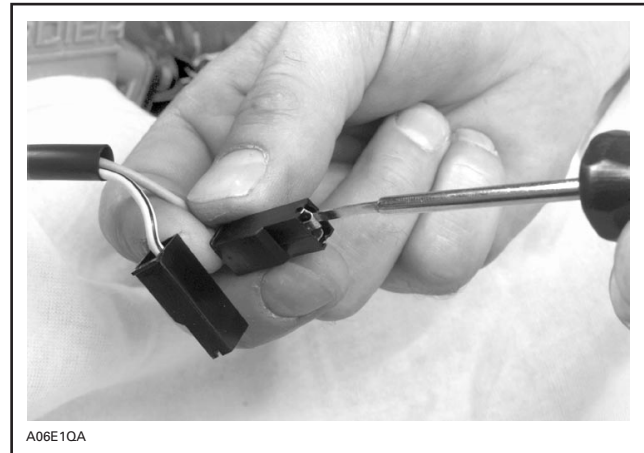
Step 1: Insert screwdriver here

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.

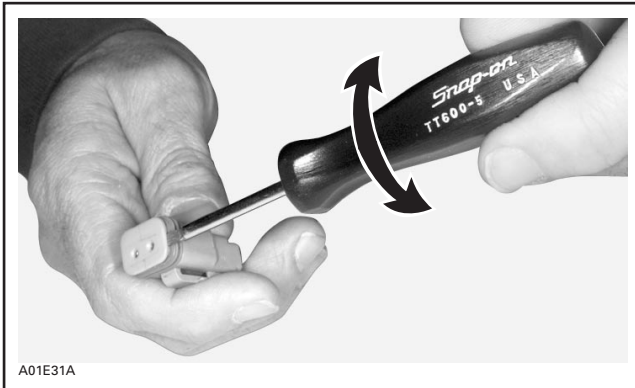


## Waterproof Connector Housing

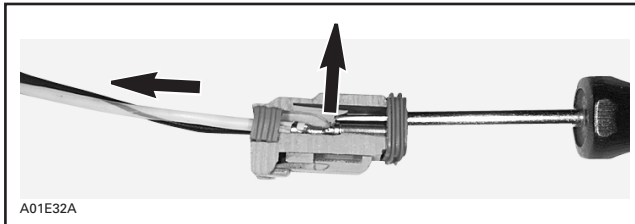
### Female Connector Housing

To remove:

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



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

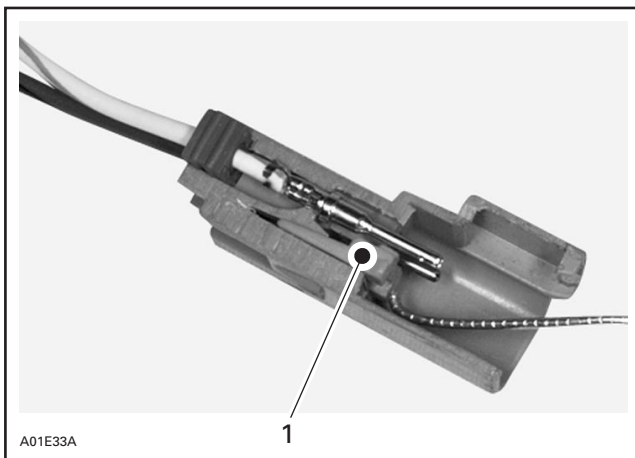


FEMALE CONNECTOR HOUSING — CUT-AWAY

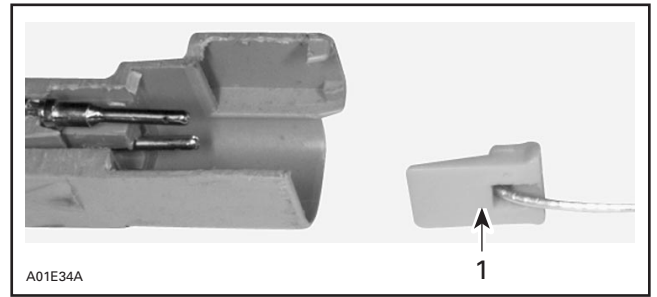
### Male Connector Housing

To remove:

- Using a small hook, pull out the lock.

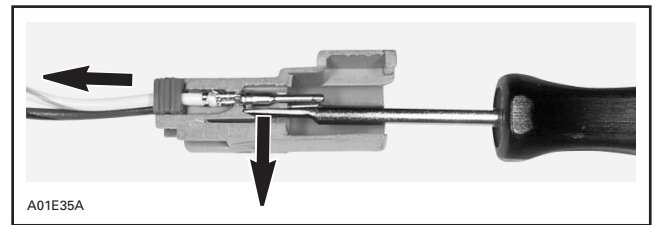


1. Lock



1. Lock

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

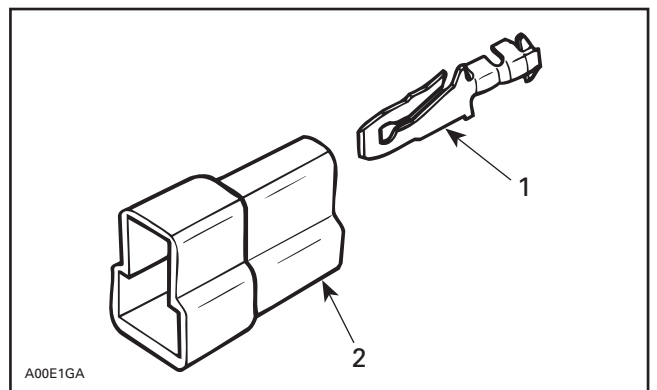


MALE CONNECTOR HOUSING — CUT-AWAY

## 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.



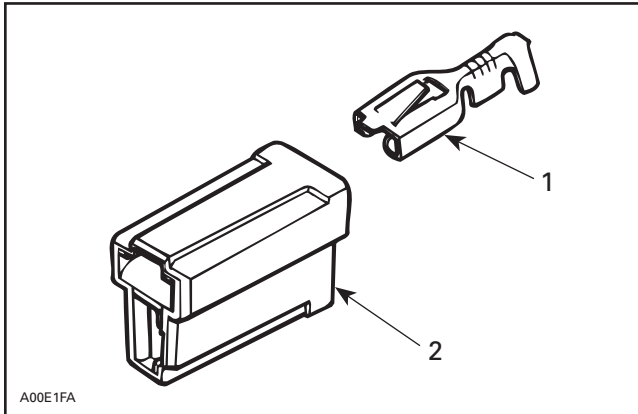
1. Tab  
 2. Housing

---

## Section 11 WIRING DIAGRAMS

### Subsection 01 (WIRING DIAGRAMS)

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#### TYPICAL

1. Receptacle
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**

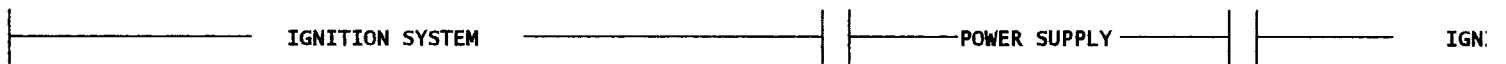
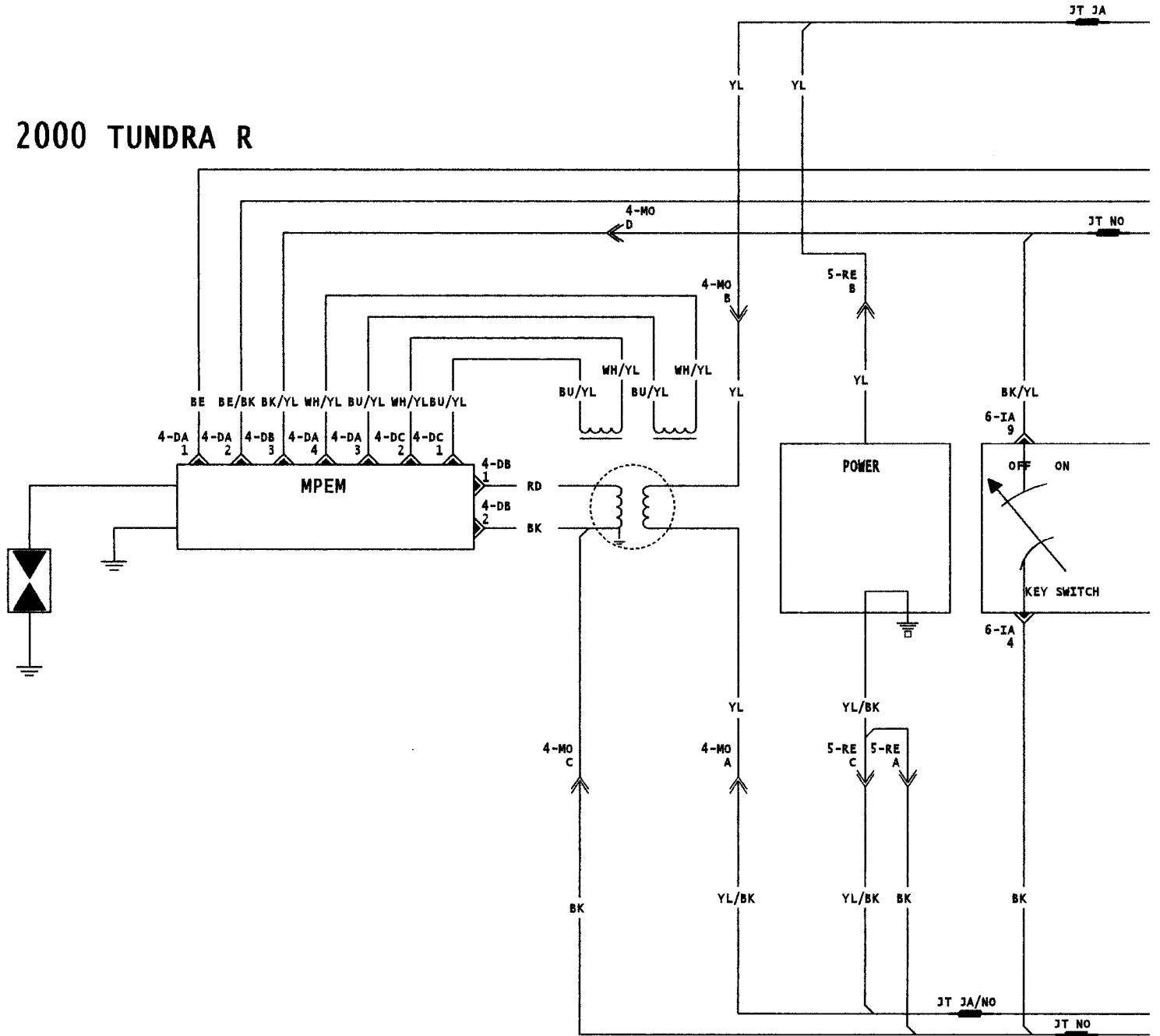
Never secure electrical wires/cables with fuel lines. Keep wires away from any rotating, moving, heating, vibrating or sharp edge. Use proper fastening devices as required.

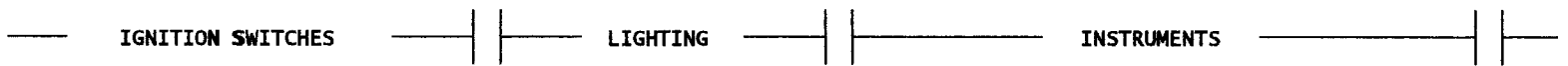
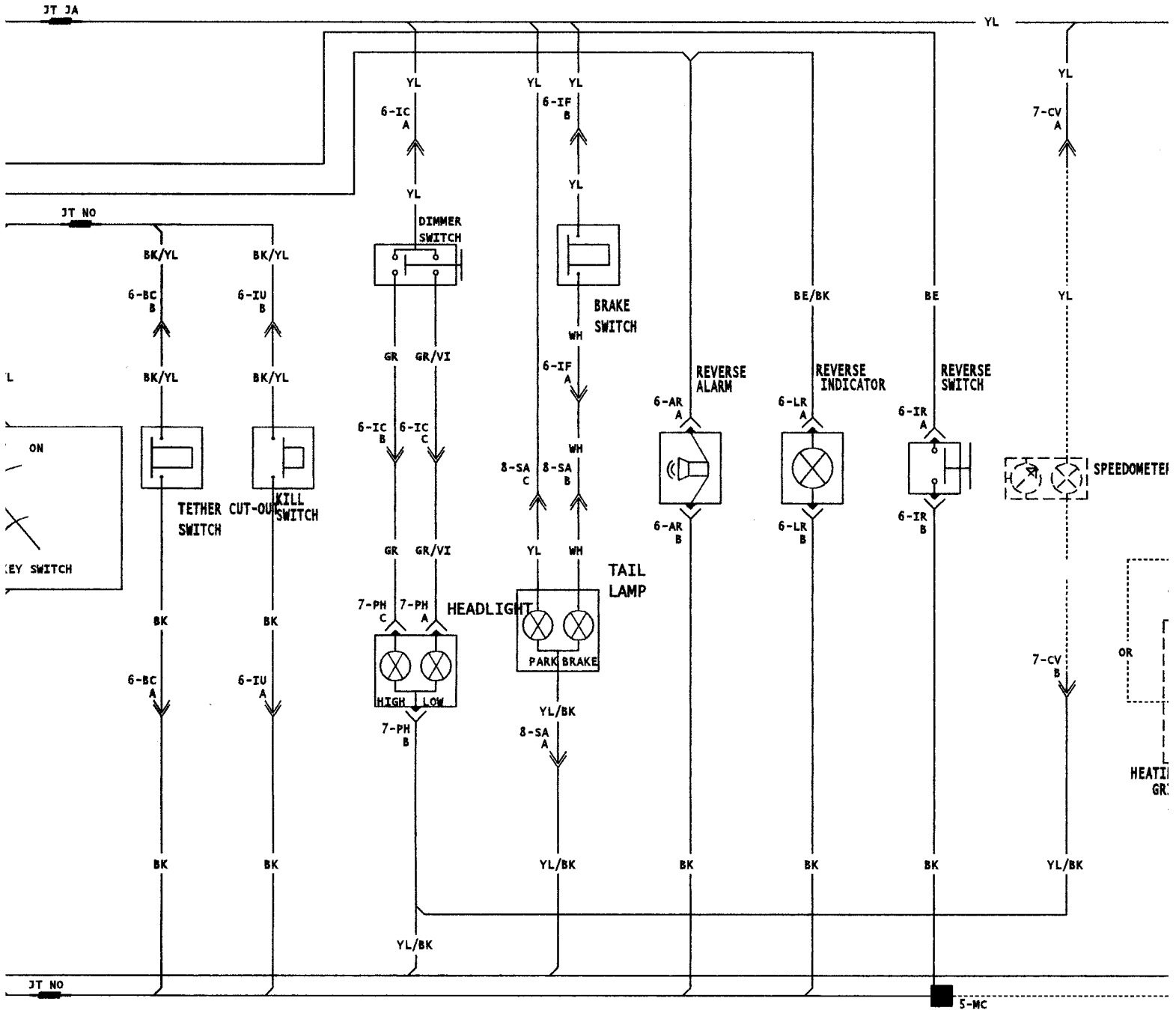


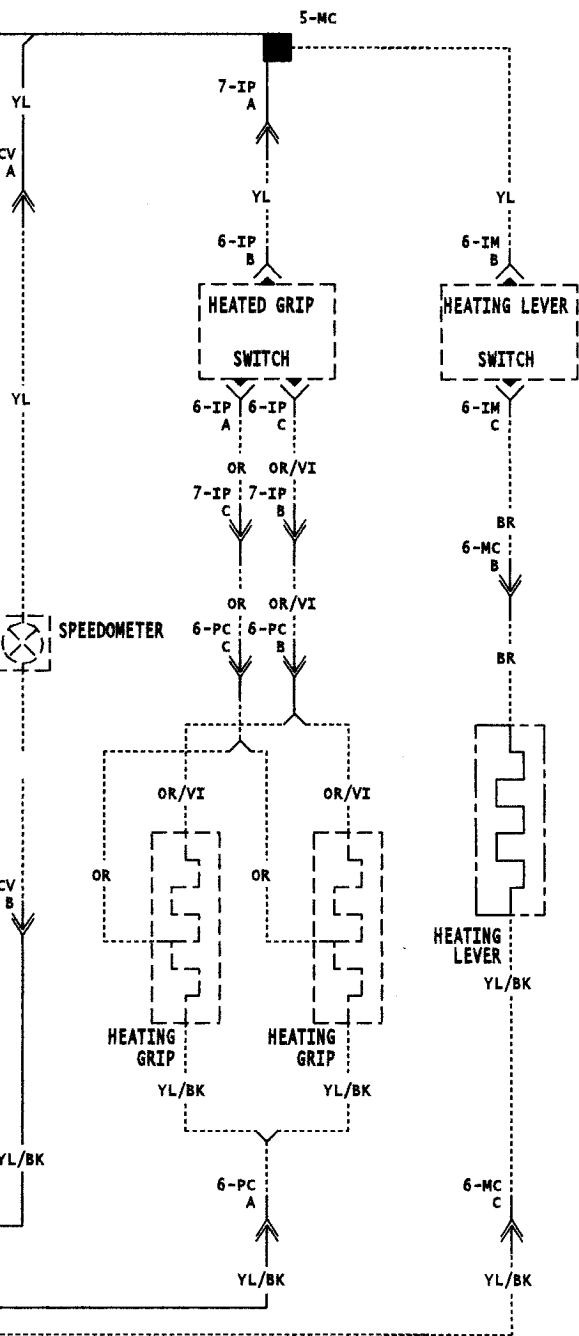
**ANNEX 1**

**TUNDRA R**

# 2000 TUNDRA R



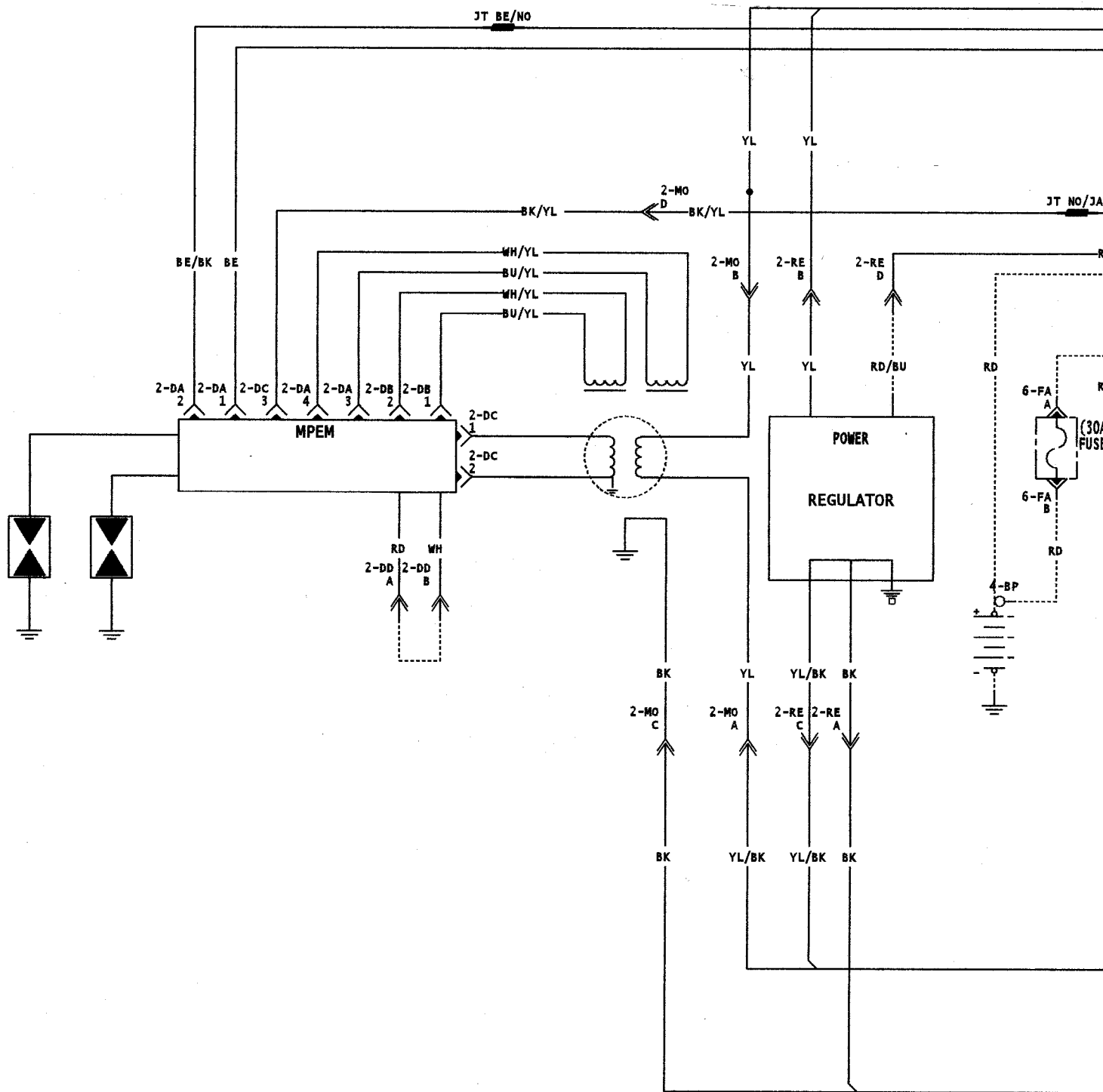


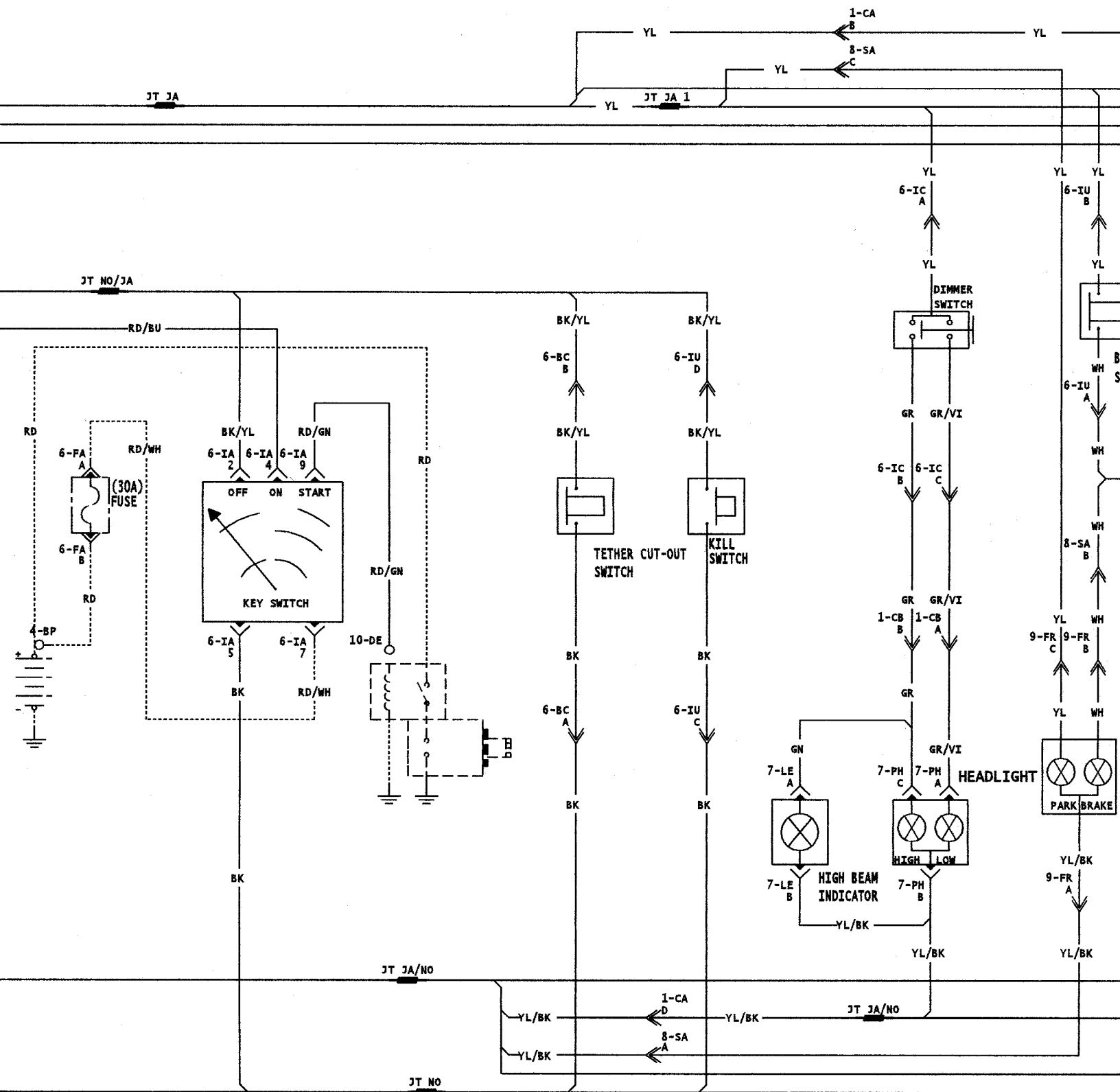


**ANNEX 2**

**SKANDIC 380/500**

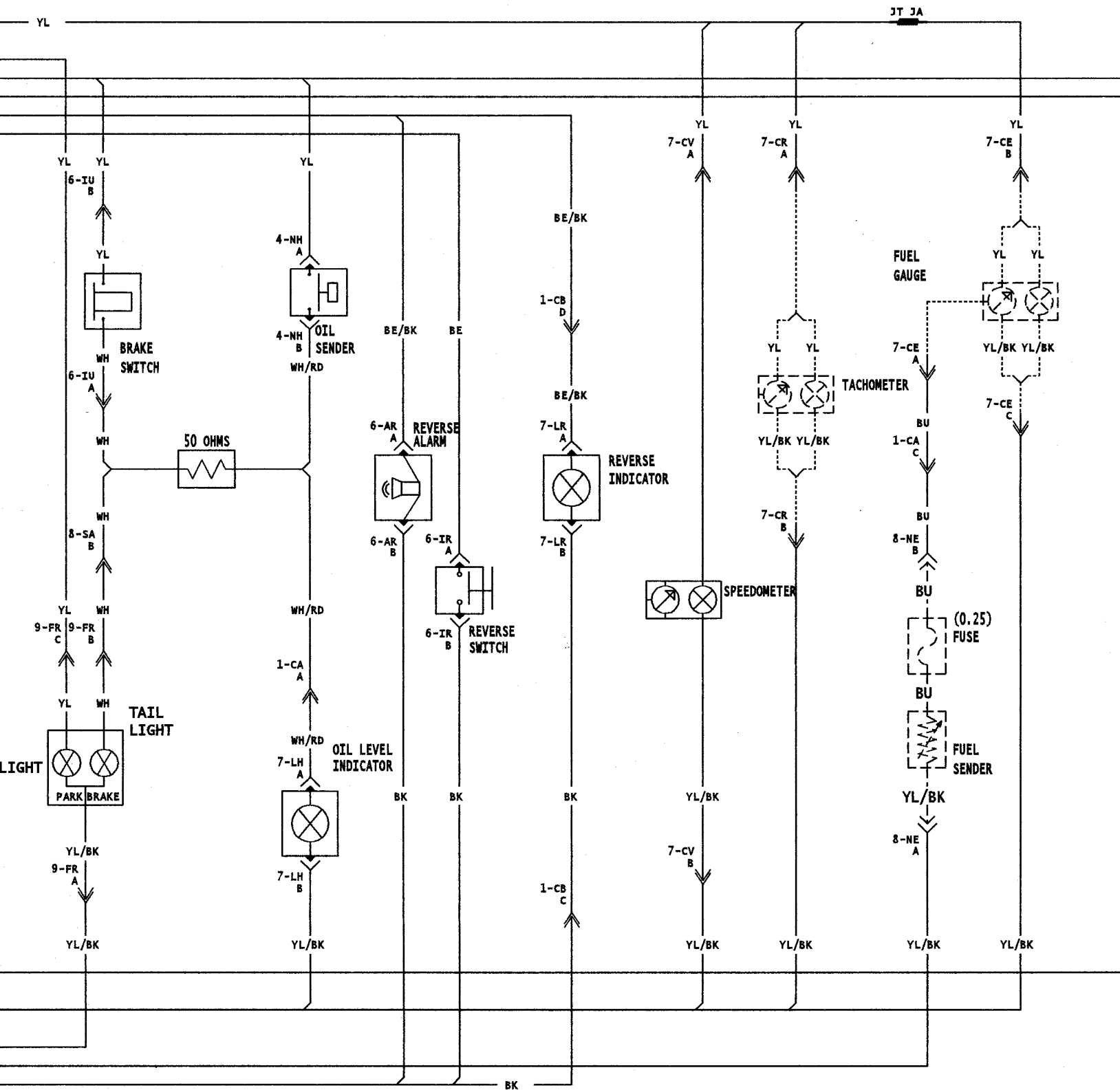
# 2000 SKANDIC 380 / 500



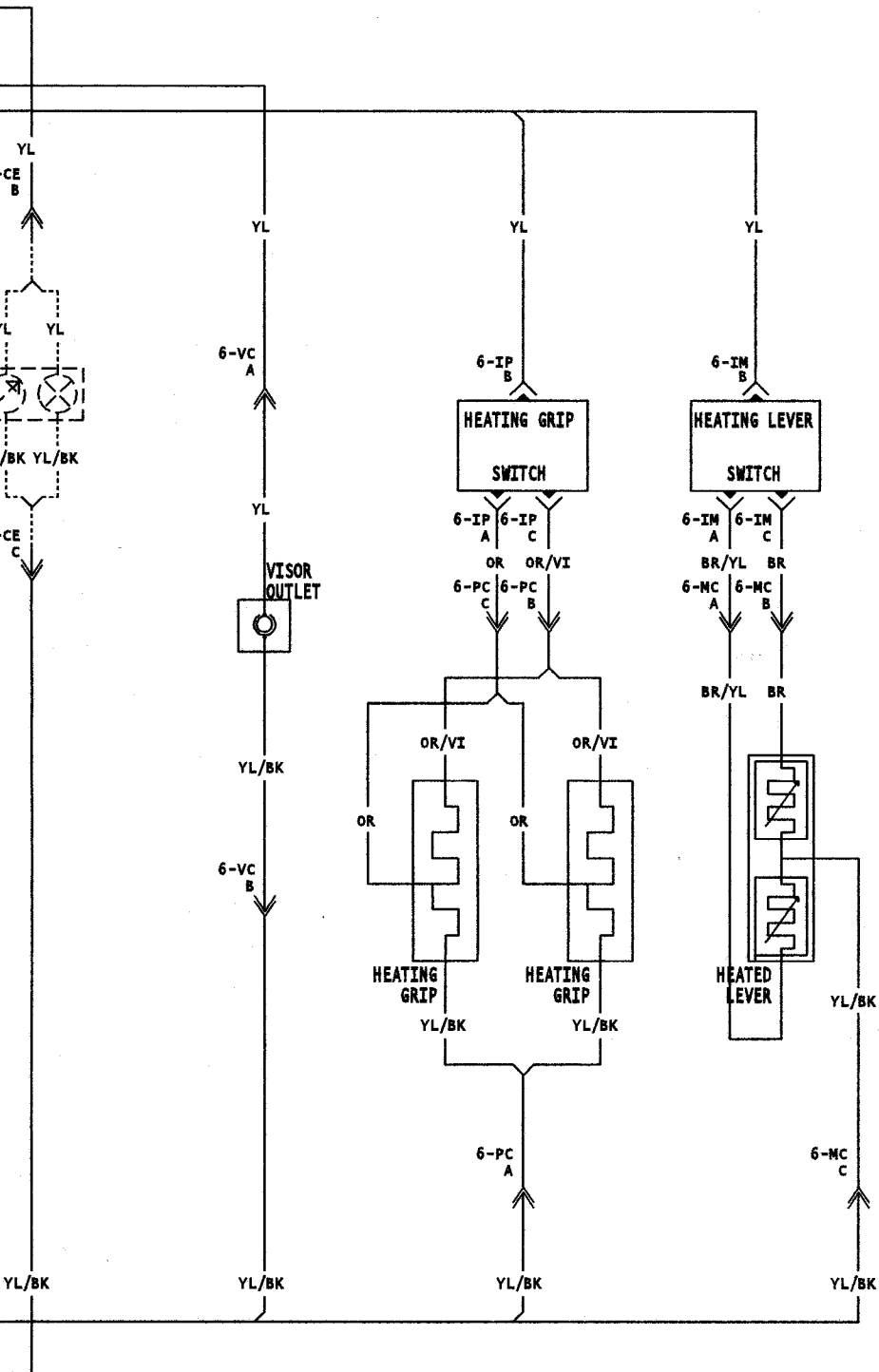


STARTER AND IGNITION SWITCHES

LIGHTING





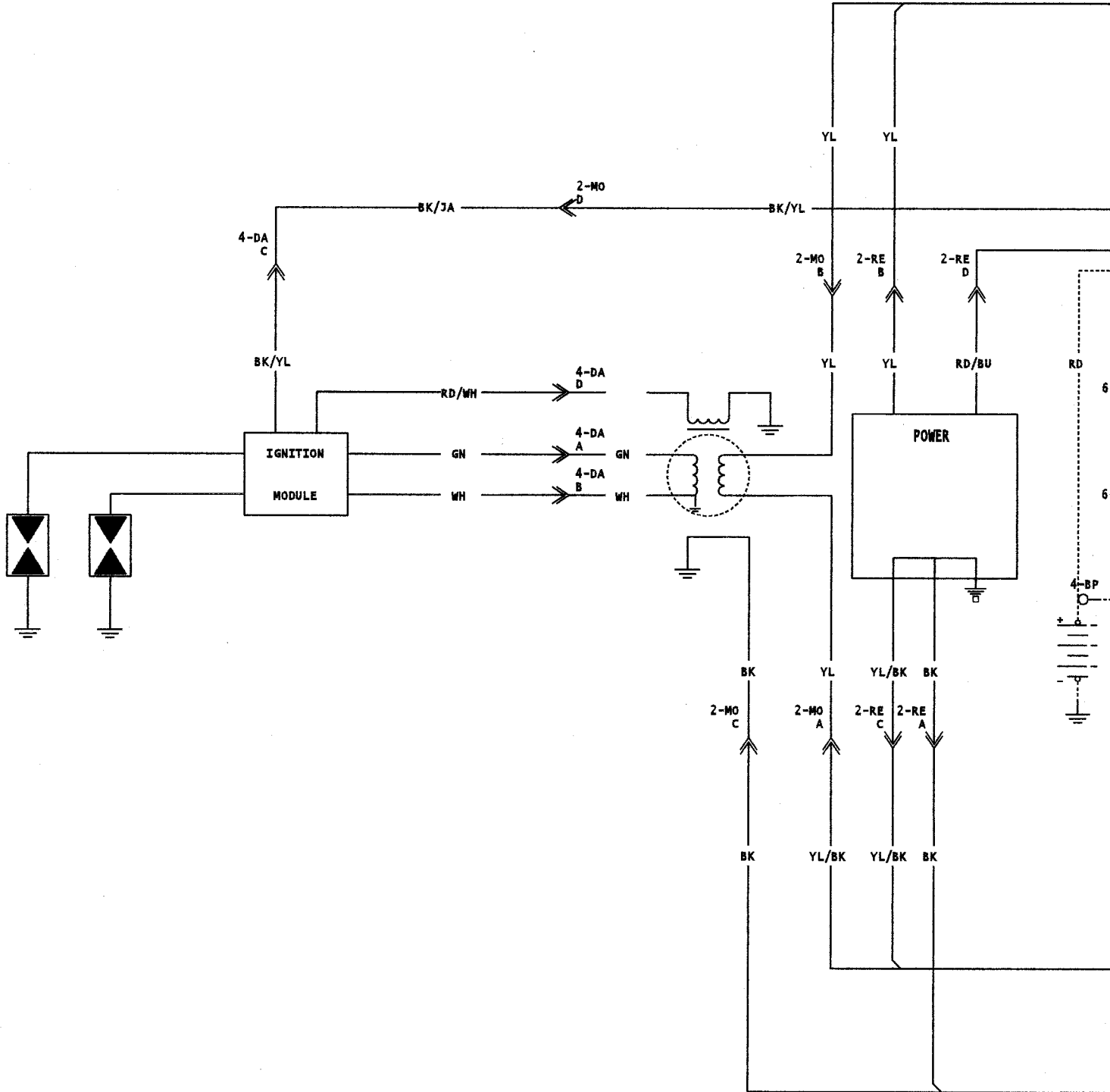


HEATING ELEMENTS

# **ANNEX 3**

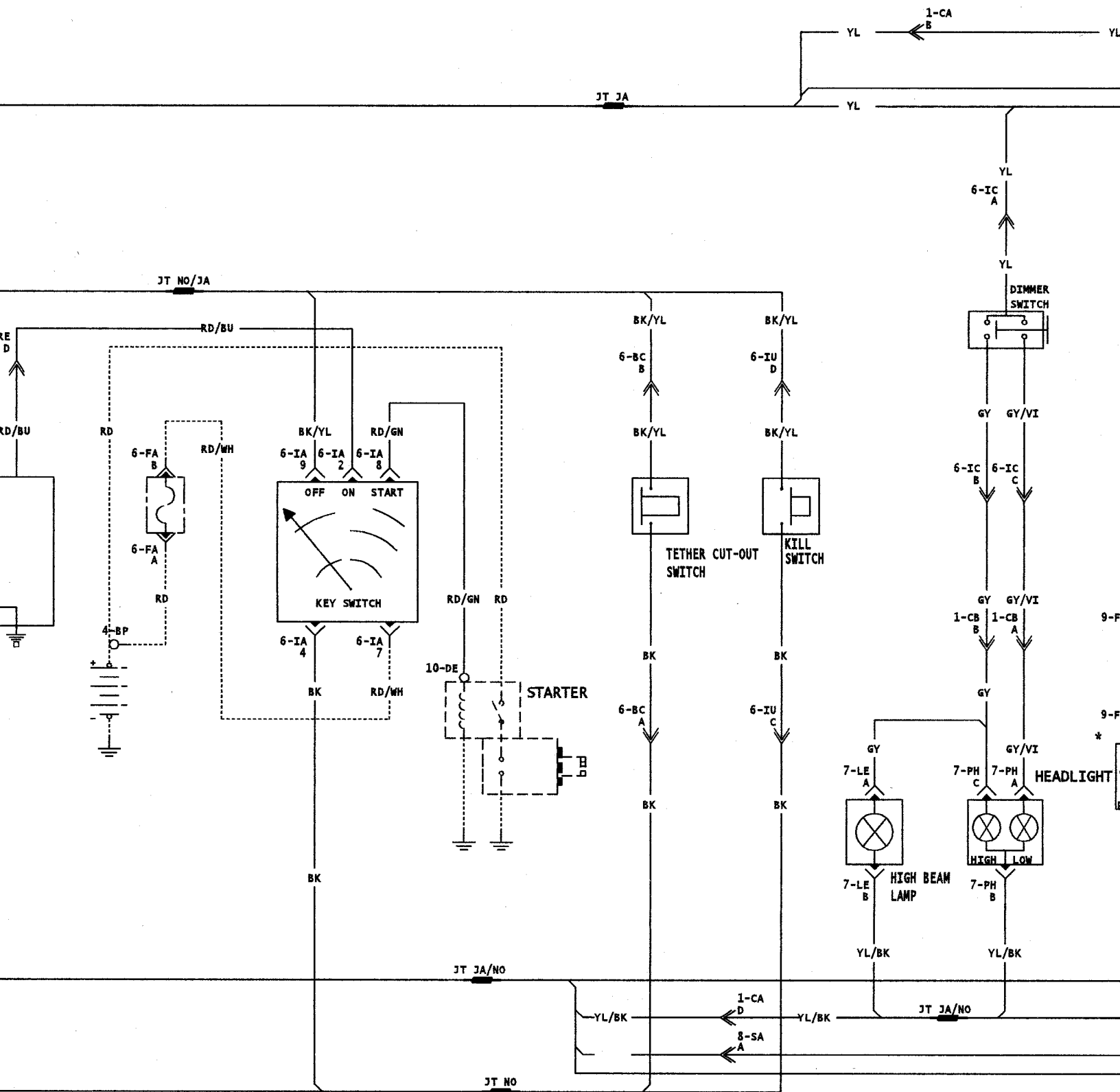
# **FORMULA S MIX Z 440**

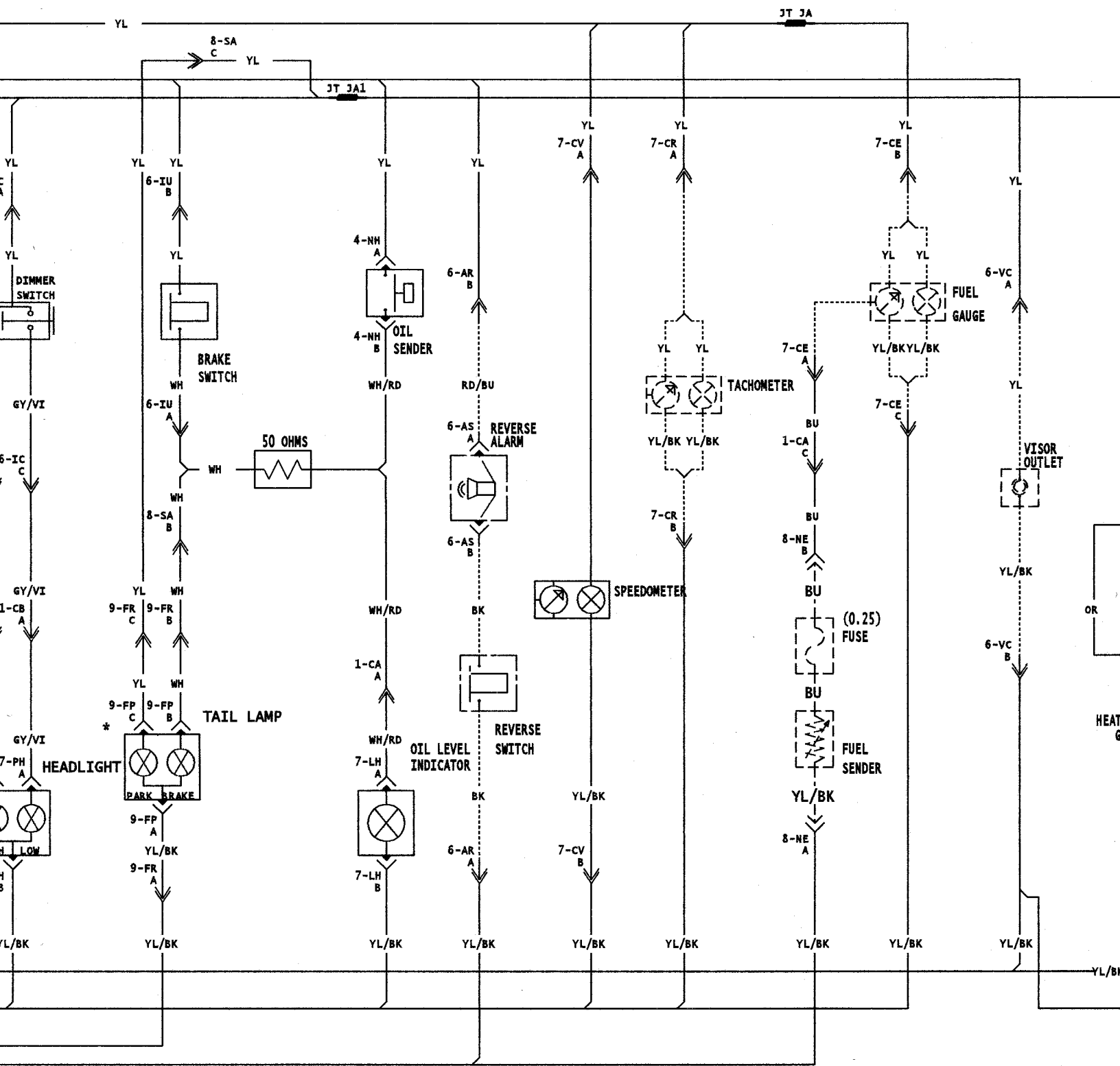
# 2000 FORMULA S, MX Z 440



IGNITION SYSTEM

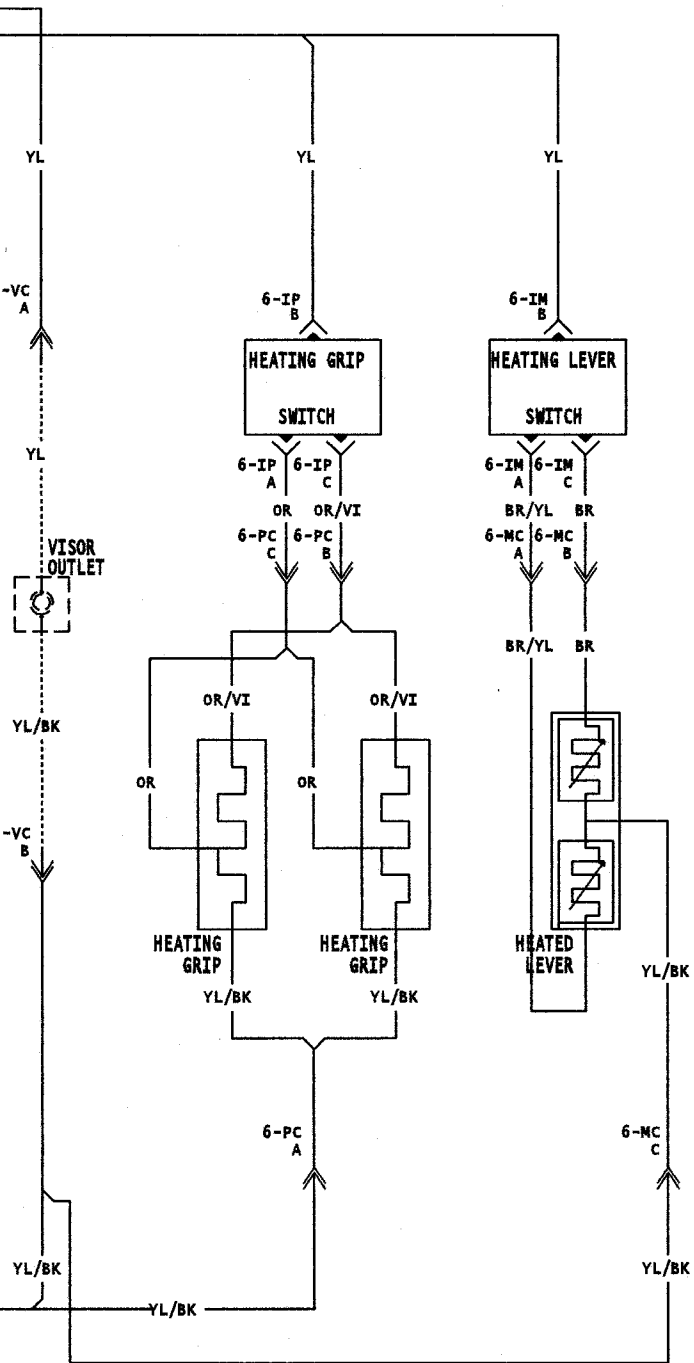
POWER SUPPLY





LIGHTING

INSTRUMENTS

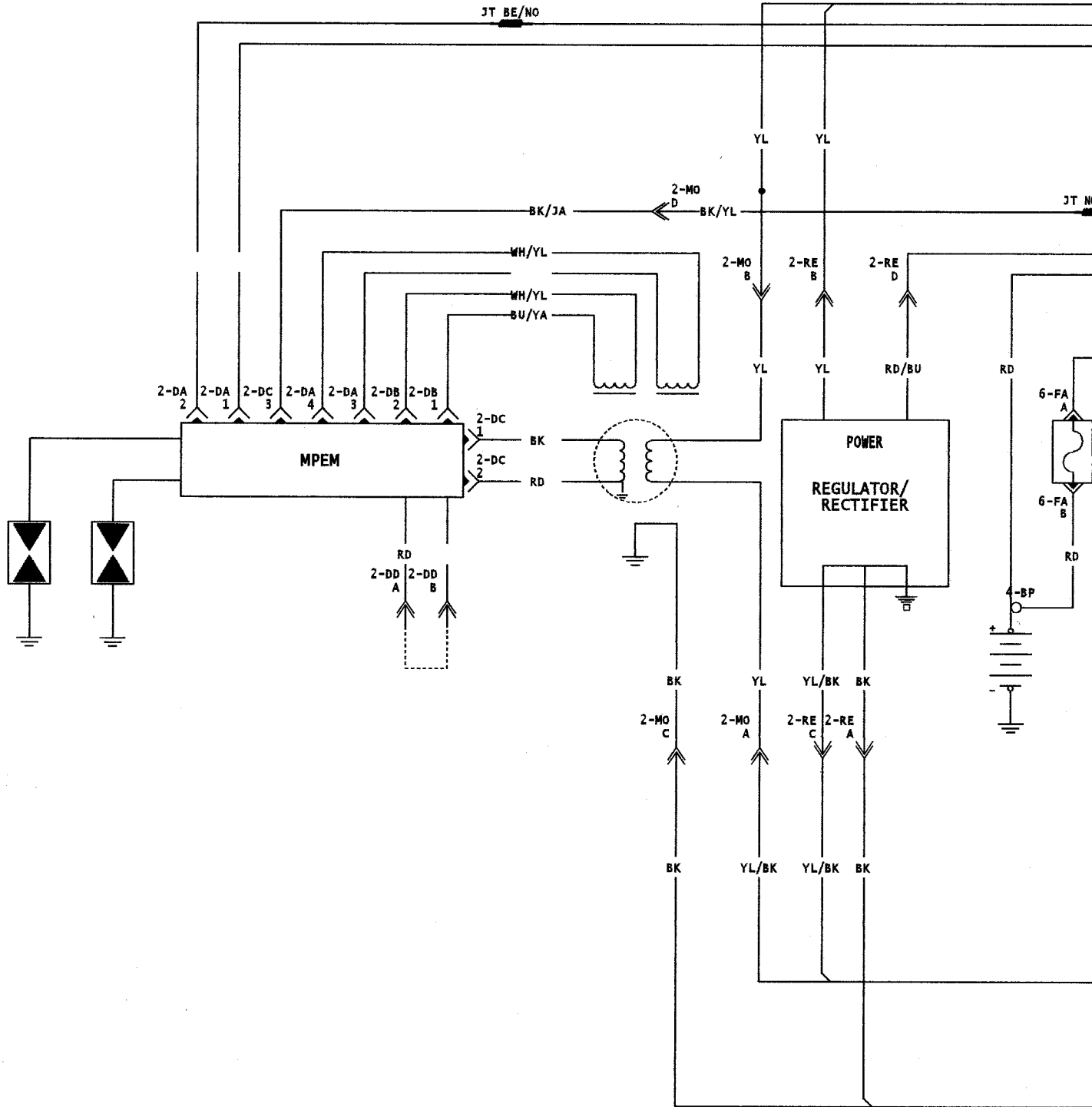


HEATING ELEMENTS

# **ANNEX 4**

## **FORMULA DLX 380/500 TOURING E/LE/SLE**

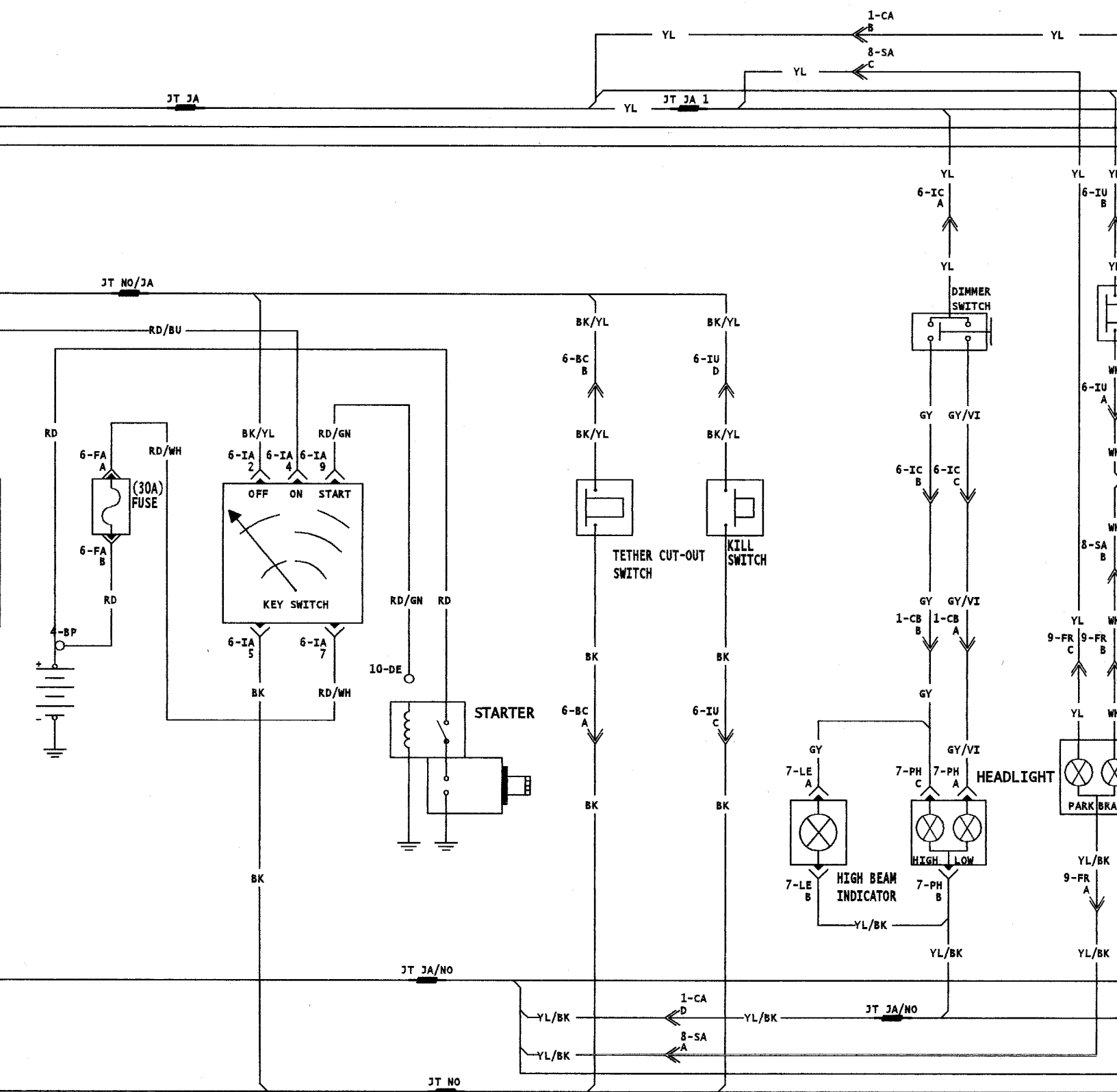
# 2000 FORMULA DLX 500/DLX 380, TOURING E/LE/SLE



IGNITION SYSTEM

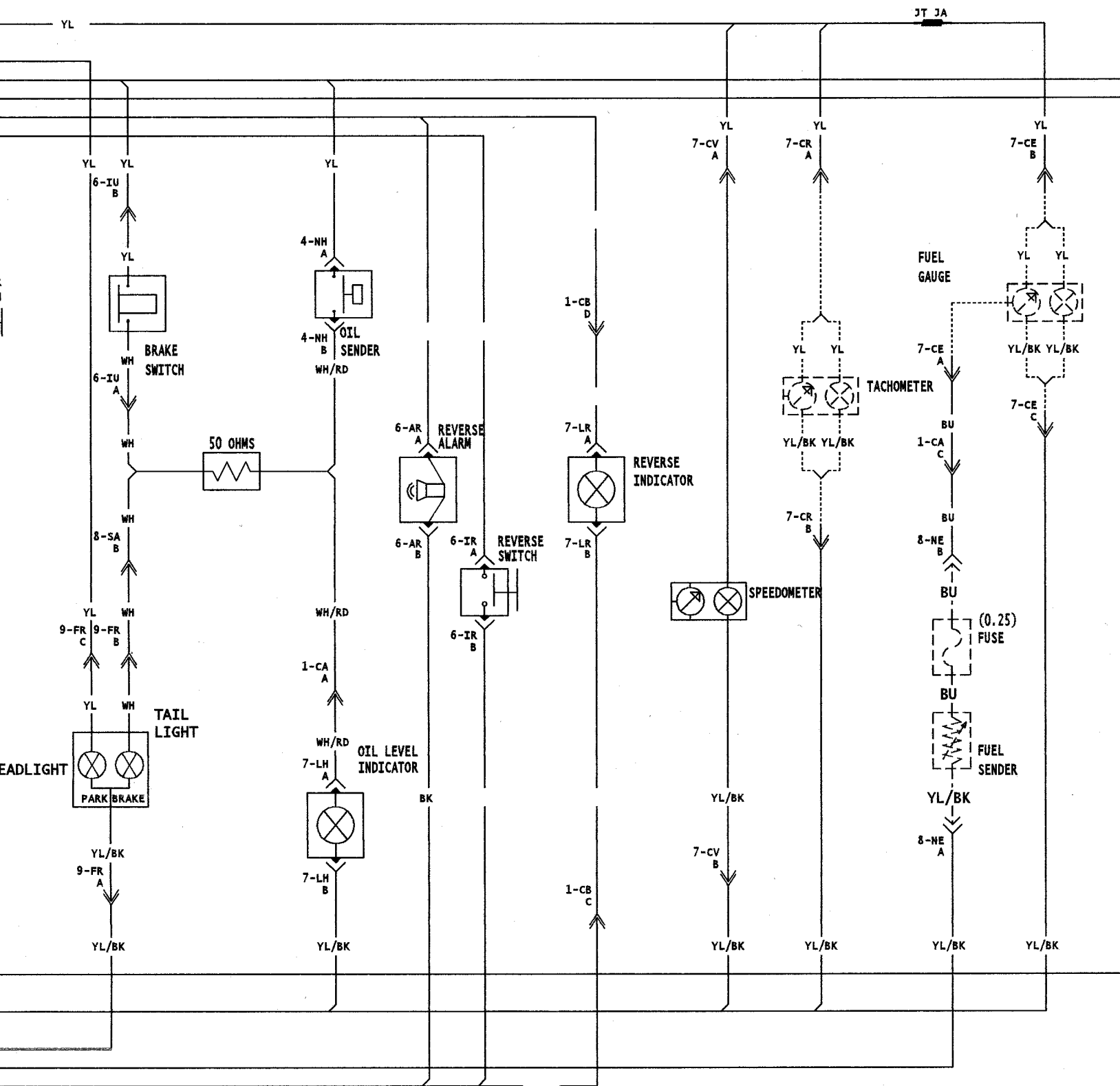
POWER SUPPLY

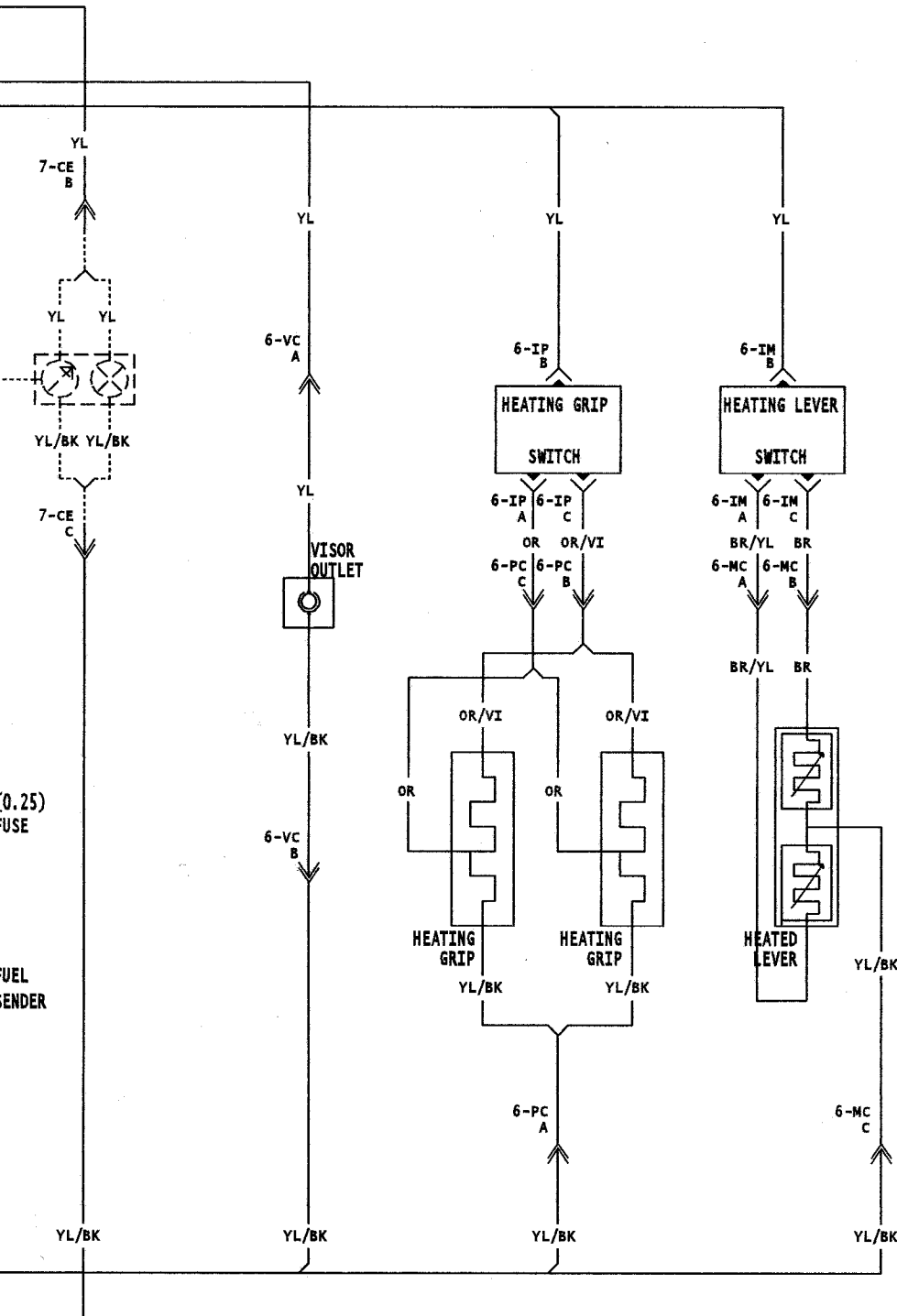




STARTER AND IGNITION SWITCHES

LIGHTING





(0.25)  
FUSE

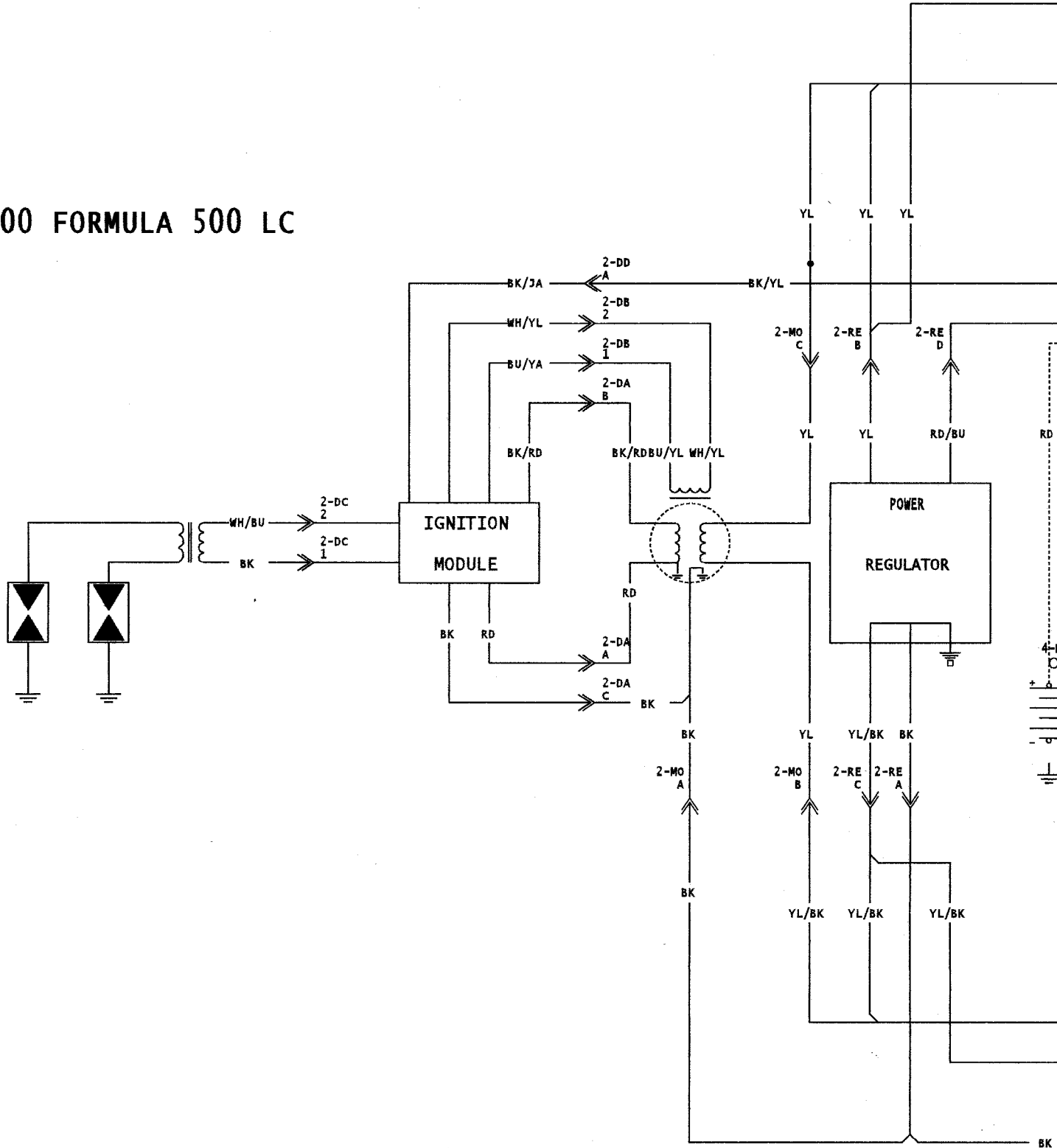
FUEL  
BENDER

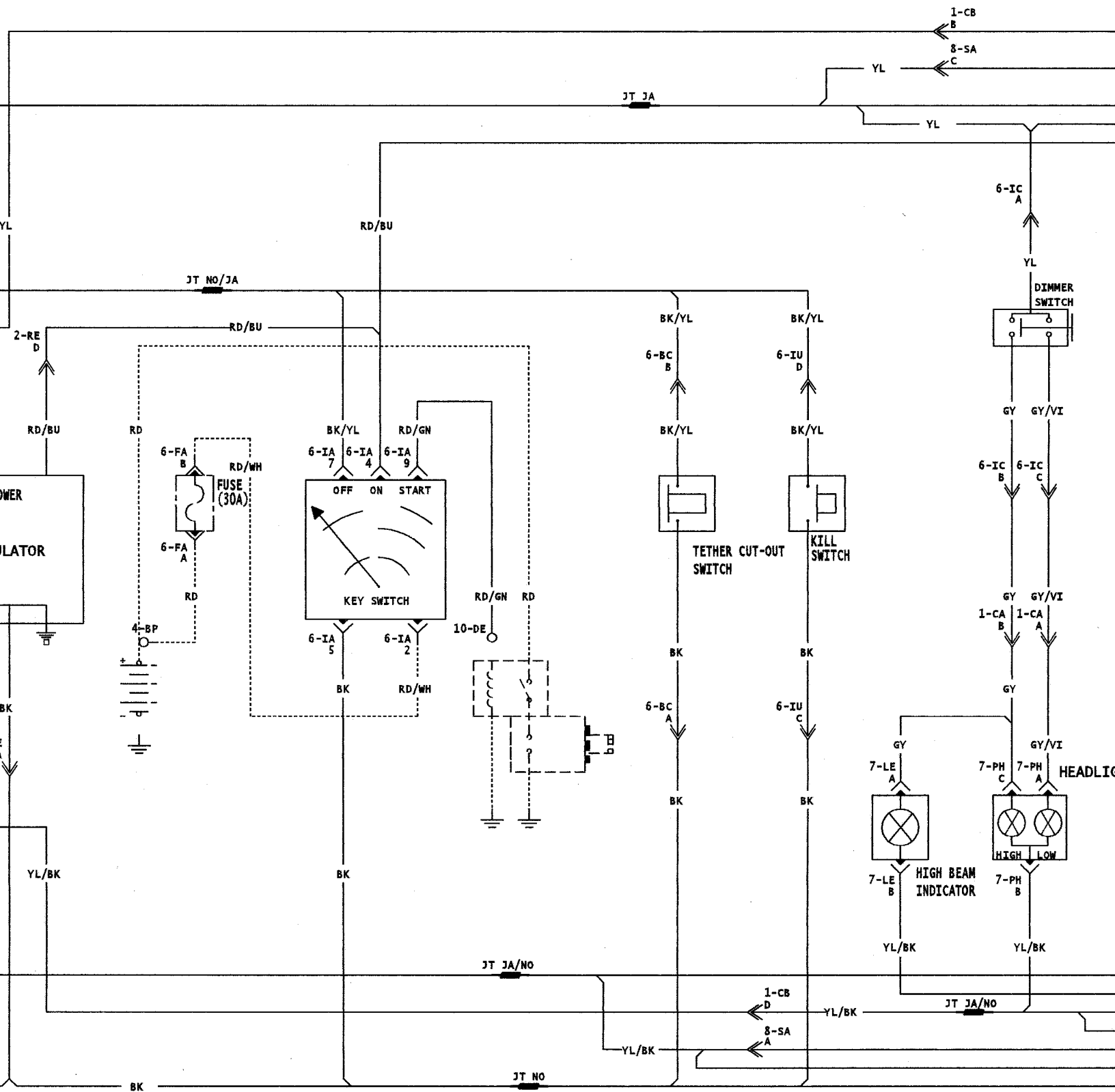
HEATING ELEMENTS

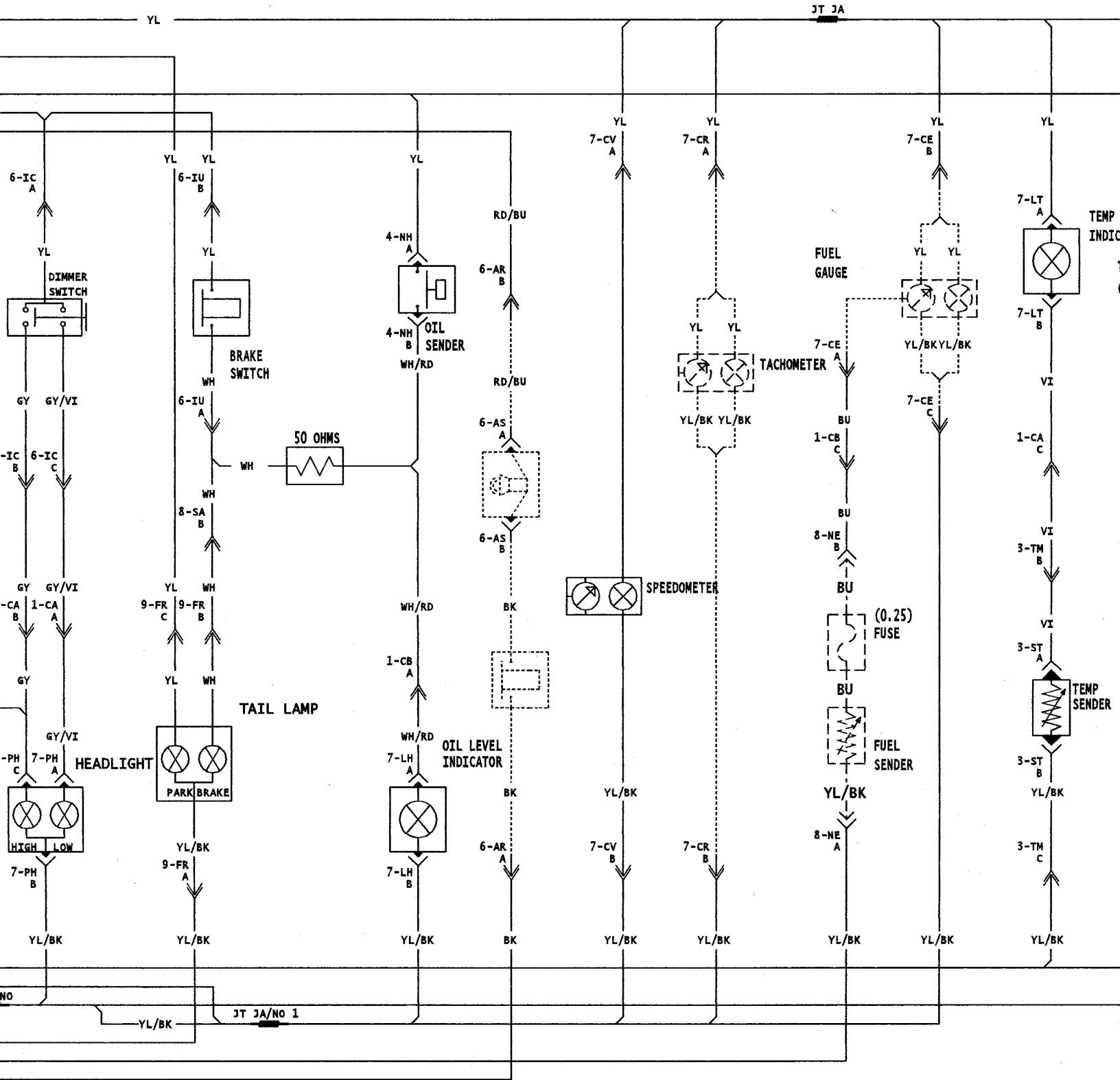
**ANNEX 5**

**FORMULA 500 LC**

# 2000 FORMULA 500 LC

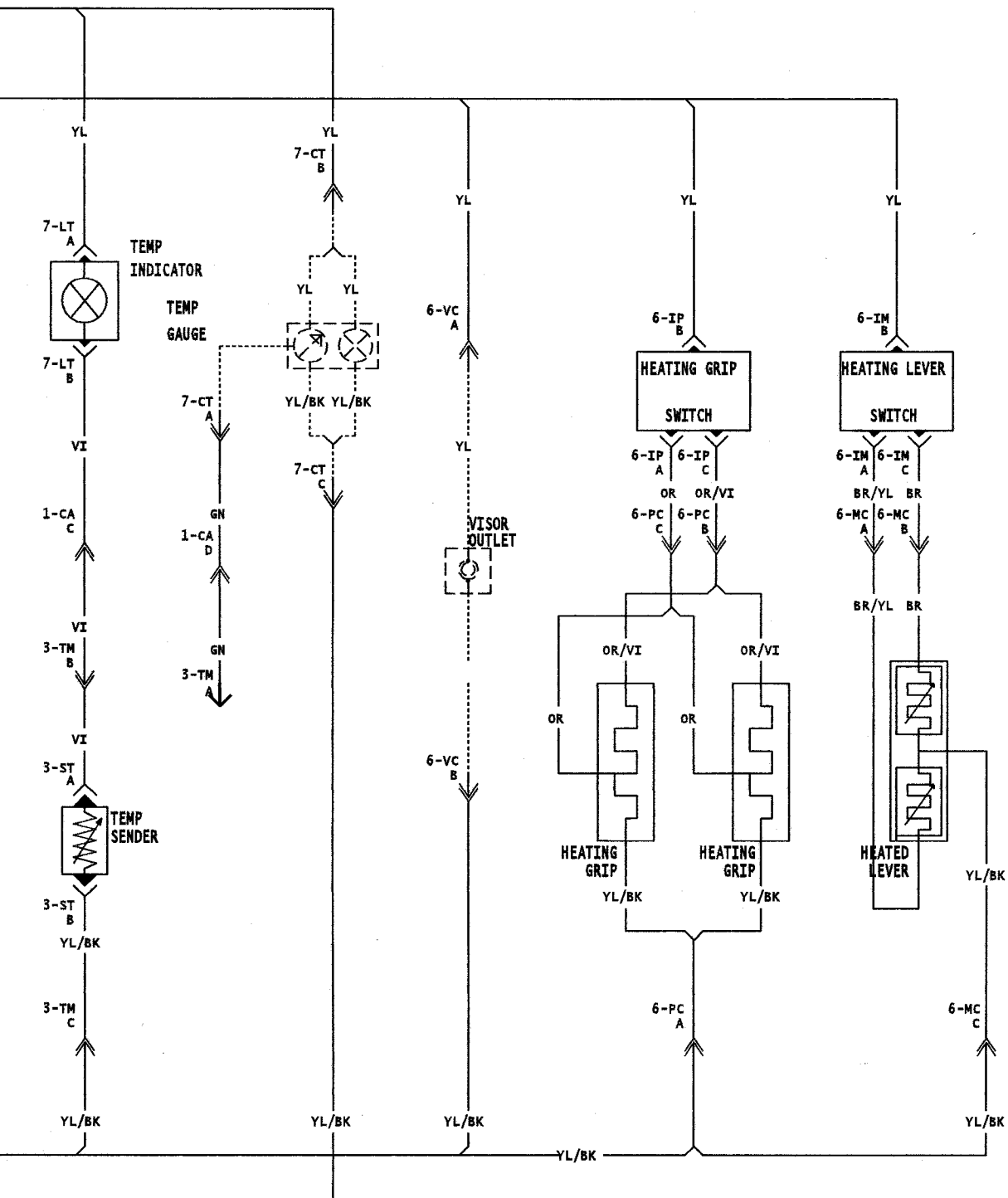






LIGHTING

INSTRUMENTS



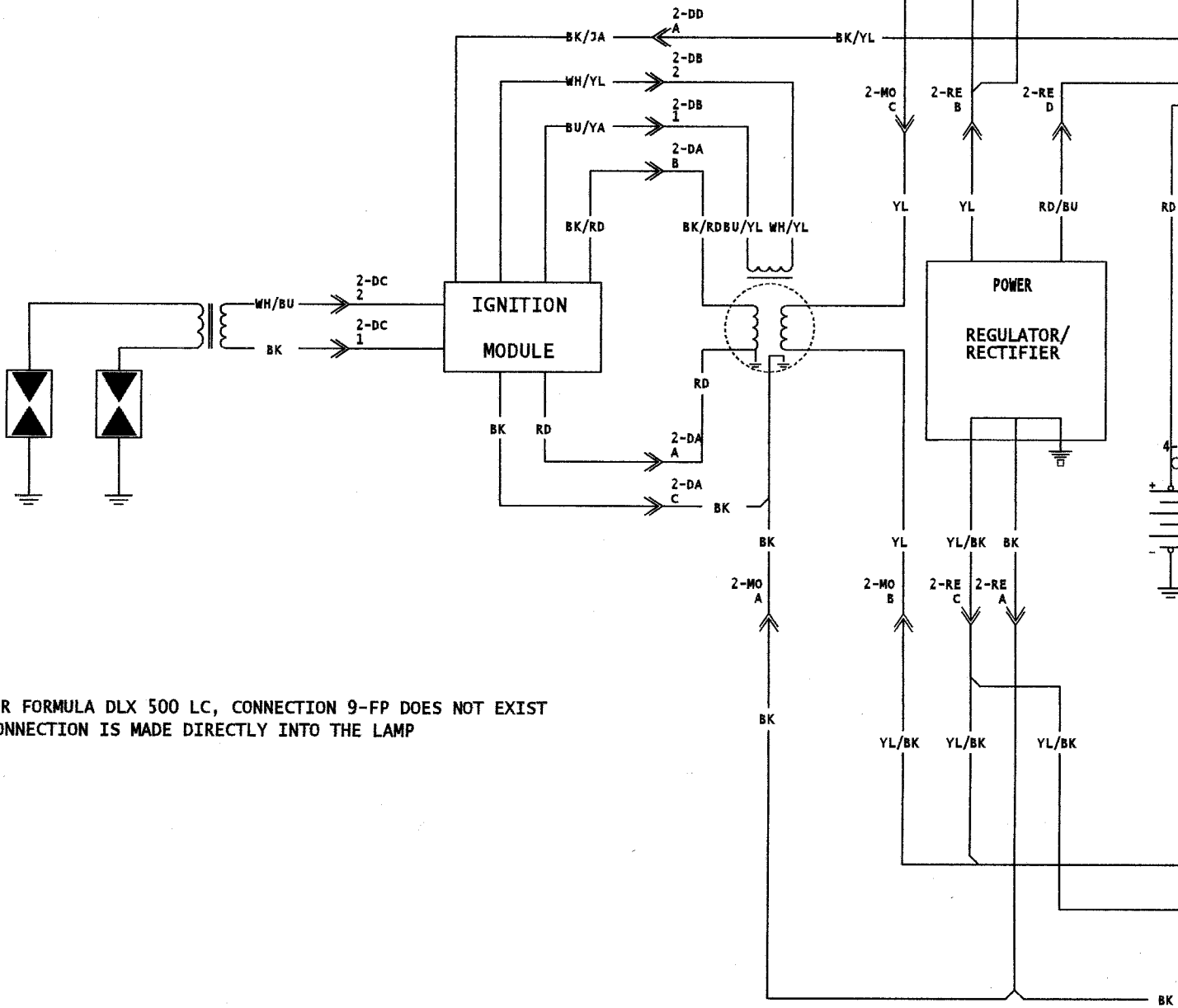
HEATING ELEMENTS



# **ANNEX 6**

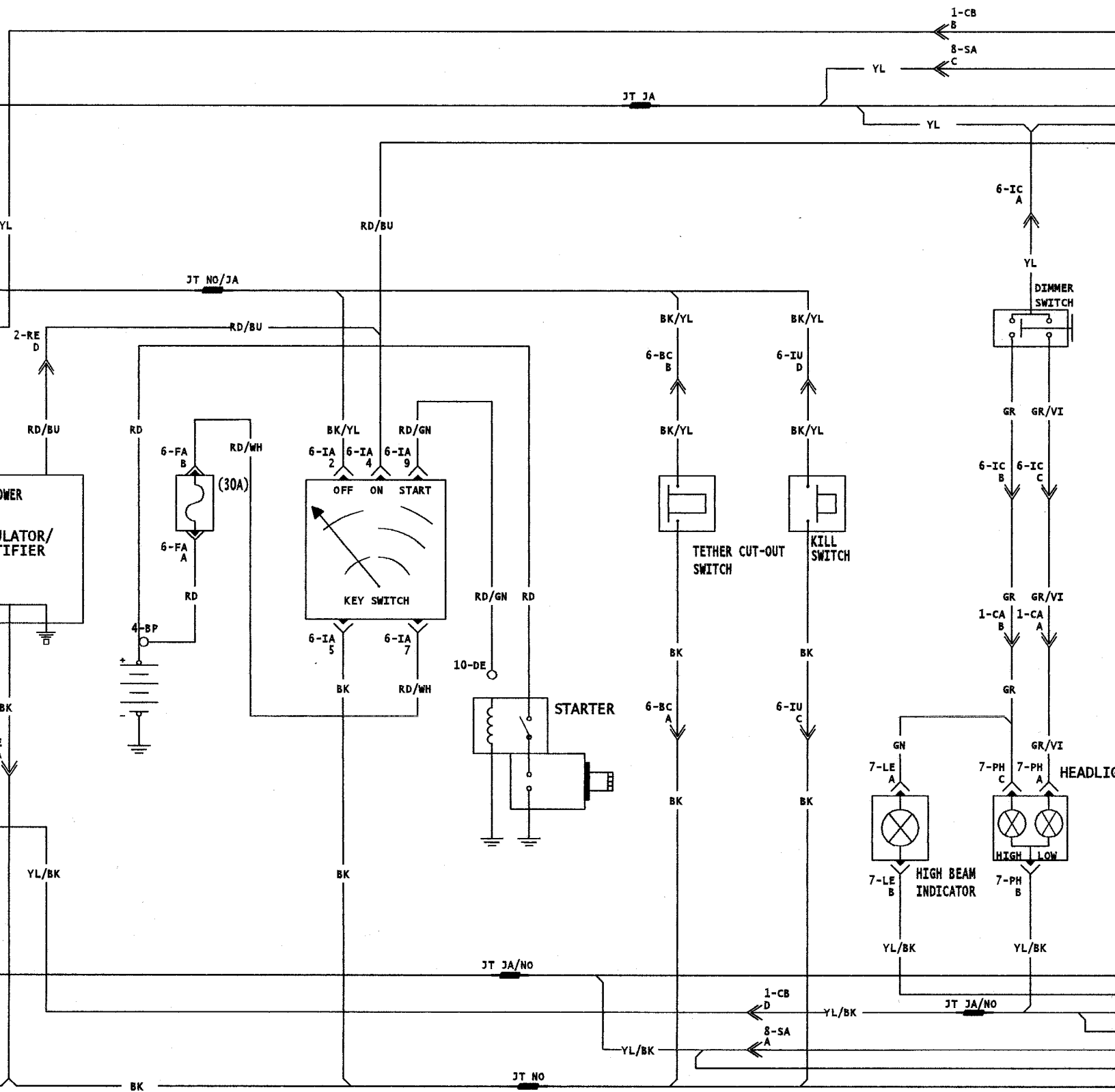
**TOURING 500 LC  
FORMULA DLX 500 LC**

# 2000 TOURING 500 LC, FORMULA DLX 500 LC



\* FOR FORMULA DLX 500 LC, CONNECTION 9-FP DOES NOT EXIST  
 CONNECTION IS MADE DIRECTLY INTO THE LAMP

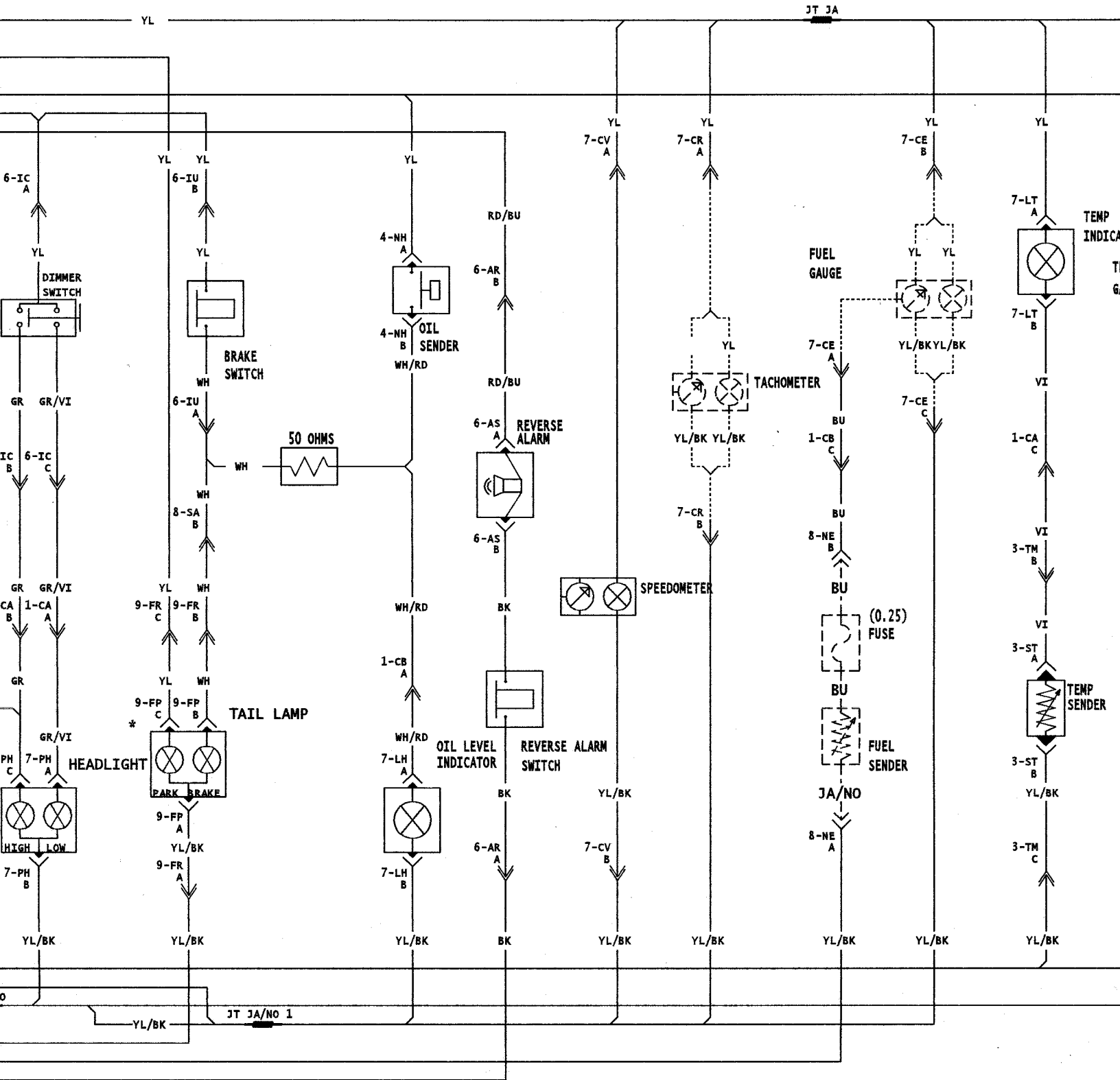




POWER SUPPLY

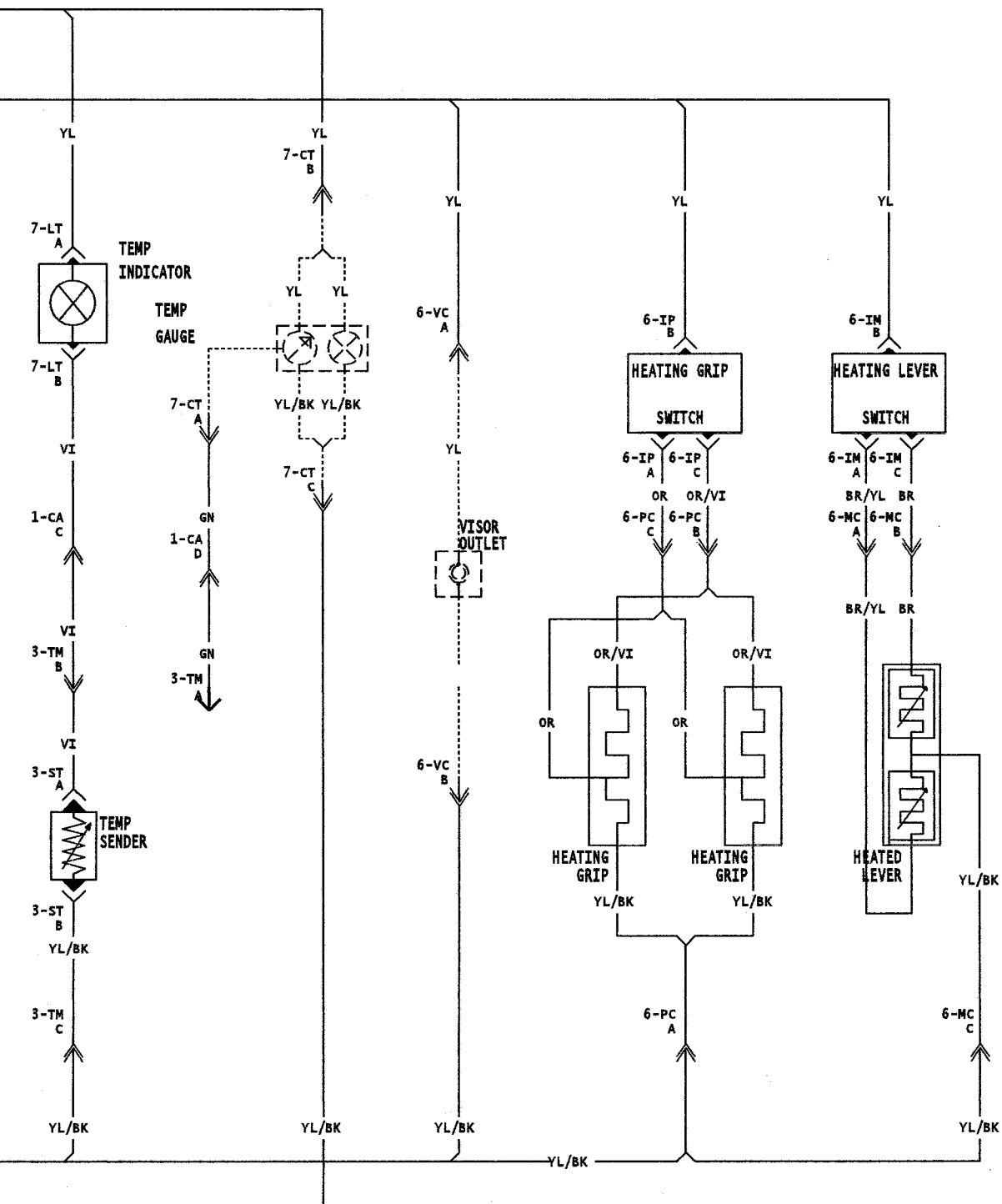
STARTER AND IGNITION SWITCHES

LIGHTING



LIGHTING

INSTRUMENTS

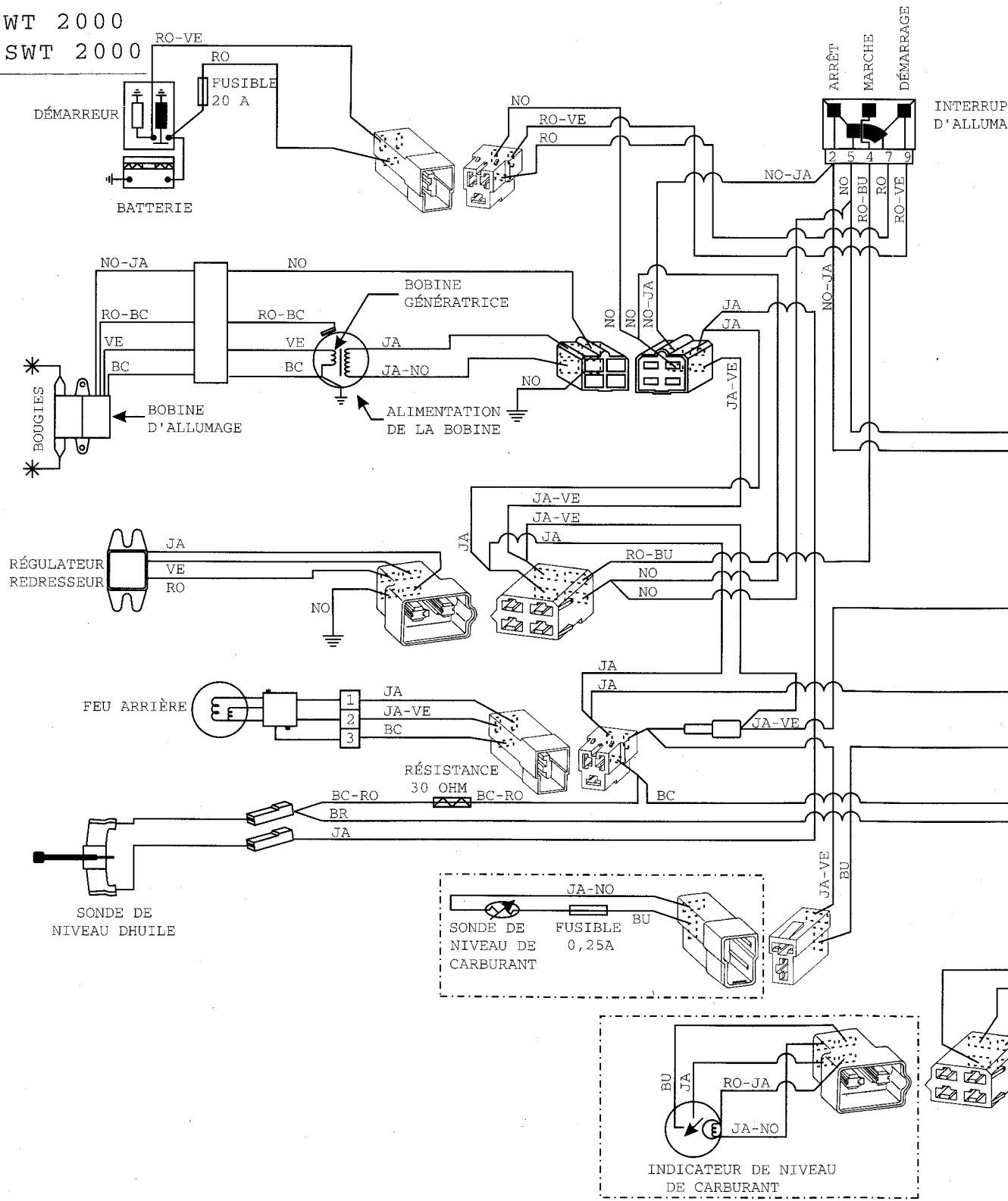


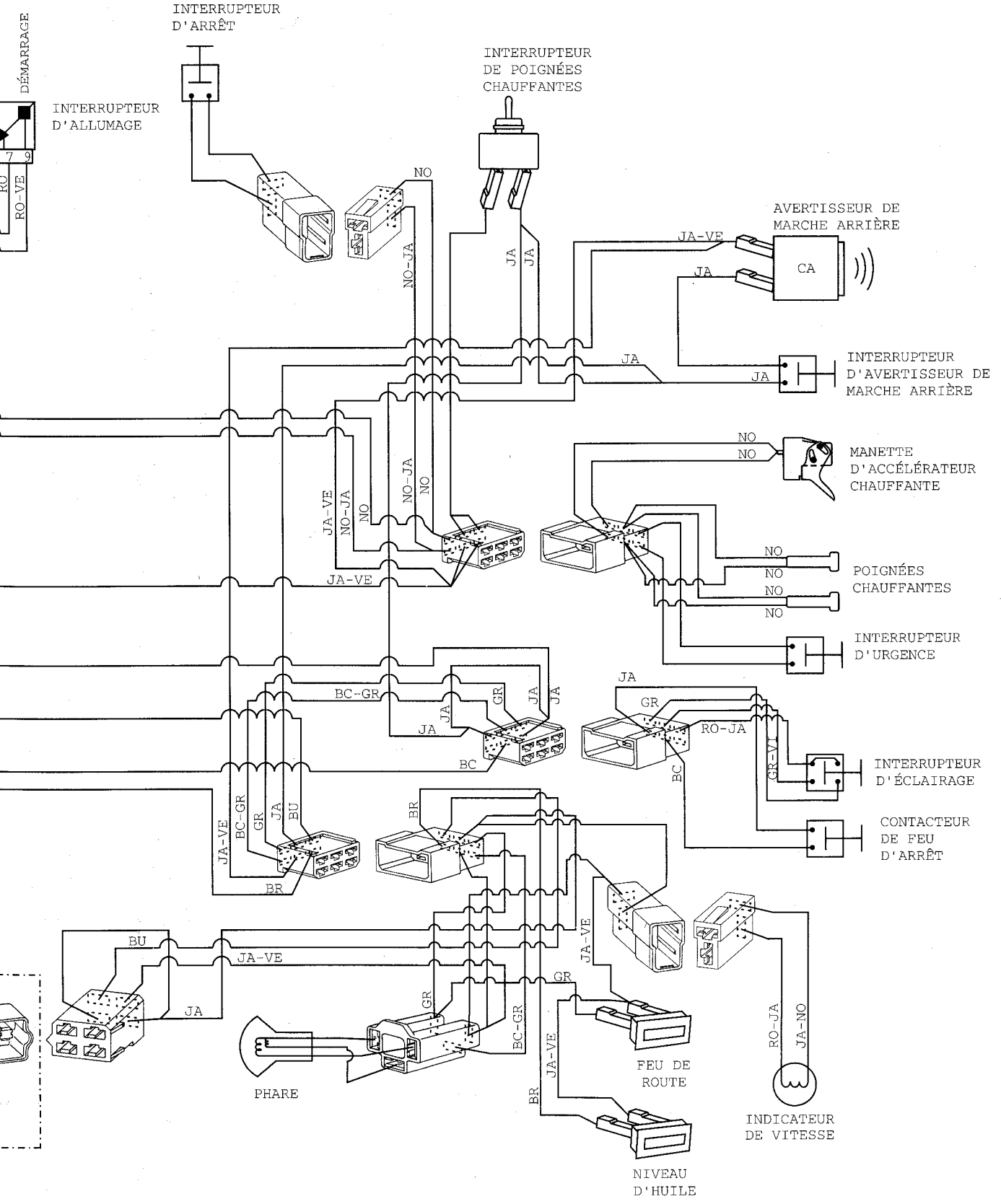
HEATING ELEMENTS

**ANNEX 7**

**SKANDIC WT/SWT**

SKANDIC WT 2000  
 SKANDIC SWT 2000



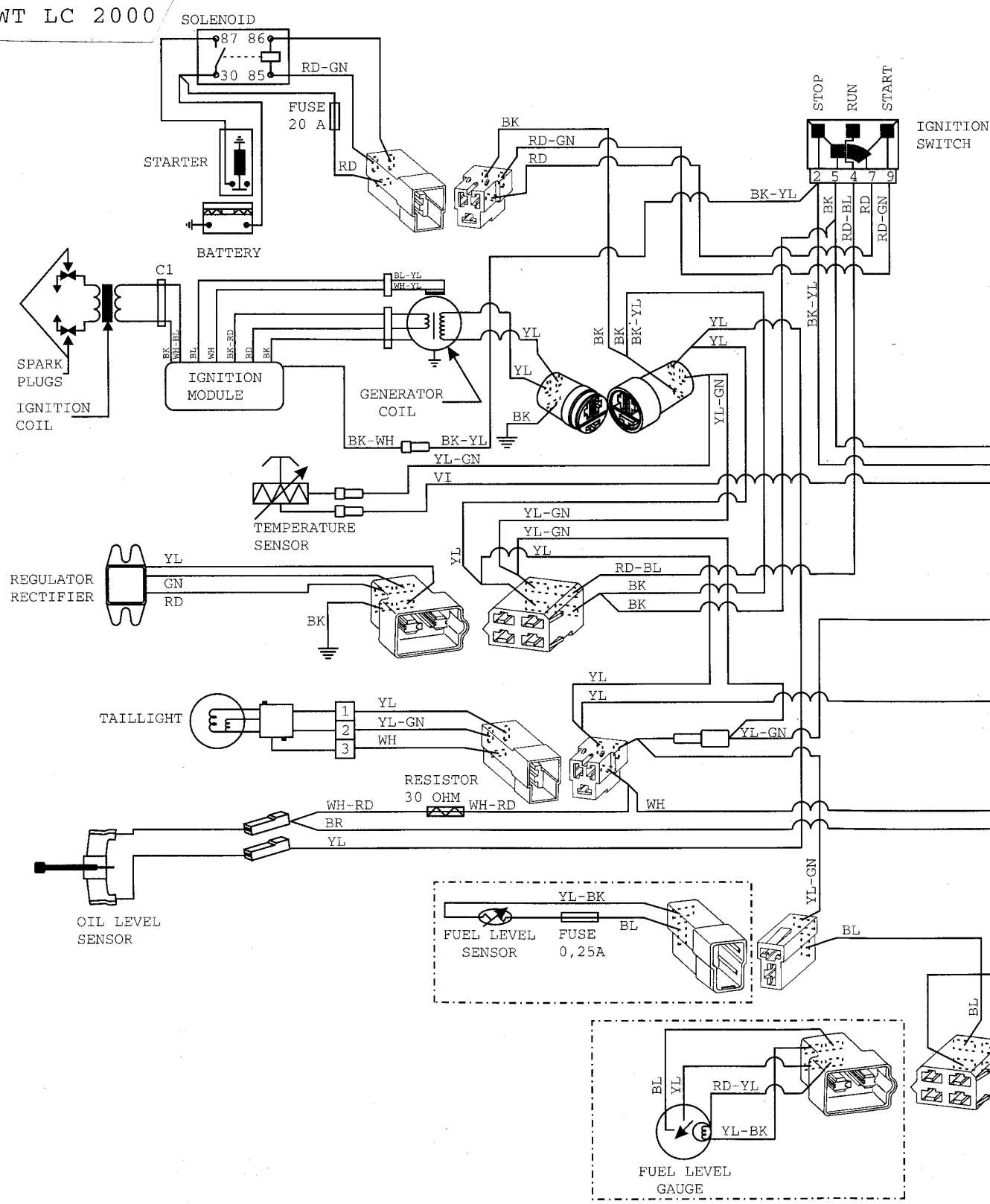


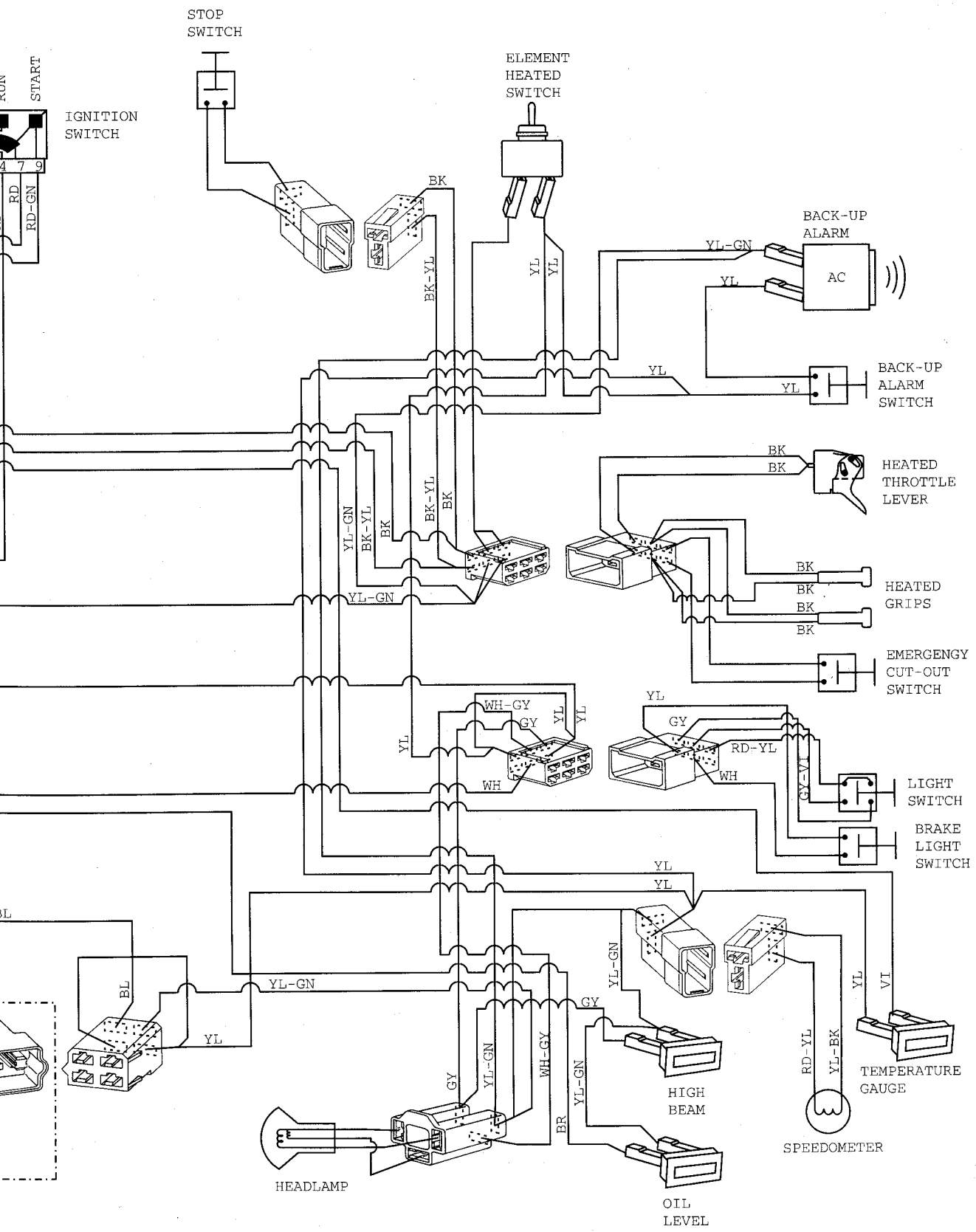


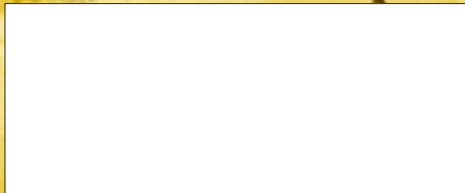
**ANNEX 8**

**SKANDIC WT LC**

SKANDIC WT LC 2000







**BOMBARDIER**  
RECREATIONAL PRODUCTS



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