

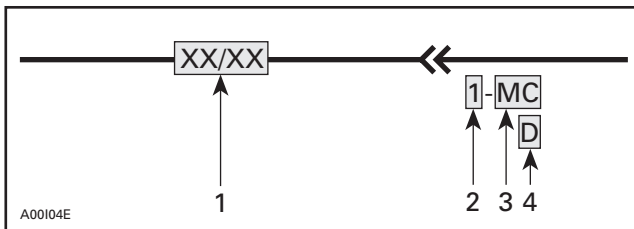
# WIRING DIAGRAMS

Wiring diagrams can be found at the end of this subsection.

## WIRING DIAGRAM LEGEND

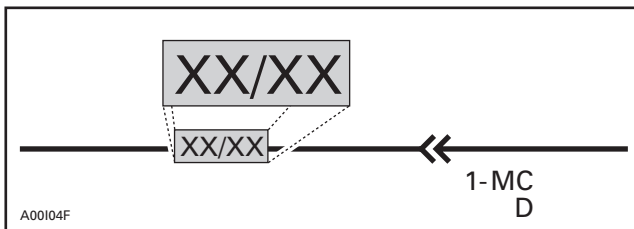
**⚠ WARNING**

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 or BU ..... | BLUE  | VI or VL ..... | VIOLET |
| BR .....       | BROWN | WH .....       | WHITE  |
| GN.....        | GREEN | YL .....       | YELLOW |
| GY or GN.....  | GREY  |                |        |

## Section 11 WIRING DIAGRAMS

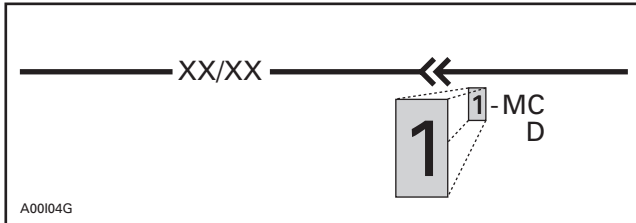
### Subsection 01 (WIRING DIAGRAMS)

Following table shows wire colors related to electrical circuits.

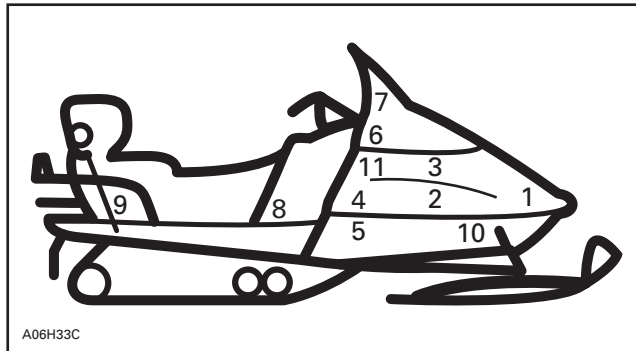
| WIRE COLOR   | ELECTRICAL CIRCUIT  | ADDITIONAL INFORMATION  |
|--|---|---|
| BLACK/YELLOW   | ENGINE SHUT OFF<br>– key switch<br>– tether cord switch<br>– emergency switch | Must be grounded to stop engine.                                    |
| BLACK (small)  | Ground for shut off, RER pilot lamp,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

## CONNECTOR HOUSING AREA

The first digit of the connector identification number presents the location of the connector on the vehicle.



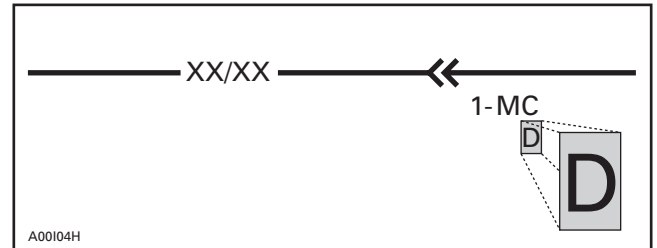
The following illustration shows the snowmobile with number on it. These numbers will correspond with the locations of the connector on the vehicle along with a brief description.



| 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  |

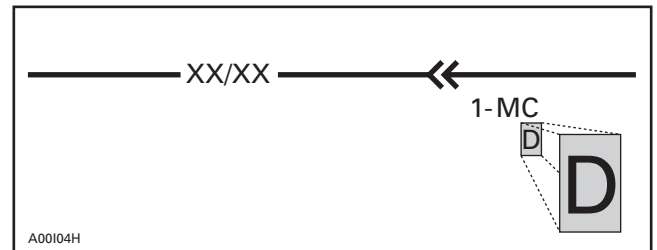
## HOUSING REFERENCE PER AREA

The third portion of the connector identification number represents the location of the wire in the connector housing. This could be identified by either a number such as 1, 2, 3 or by a letter such as A, B, C depending on the type of connector used.



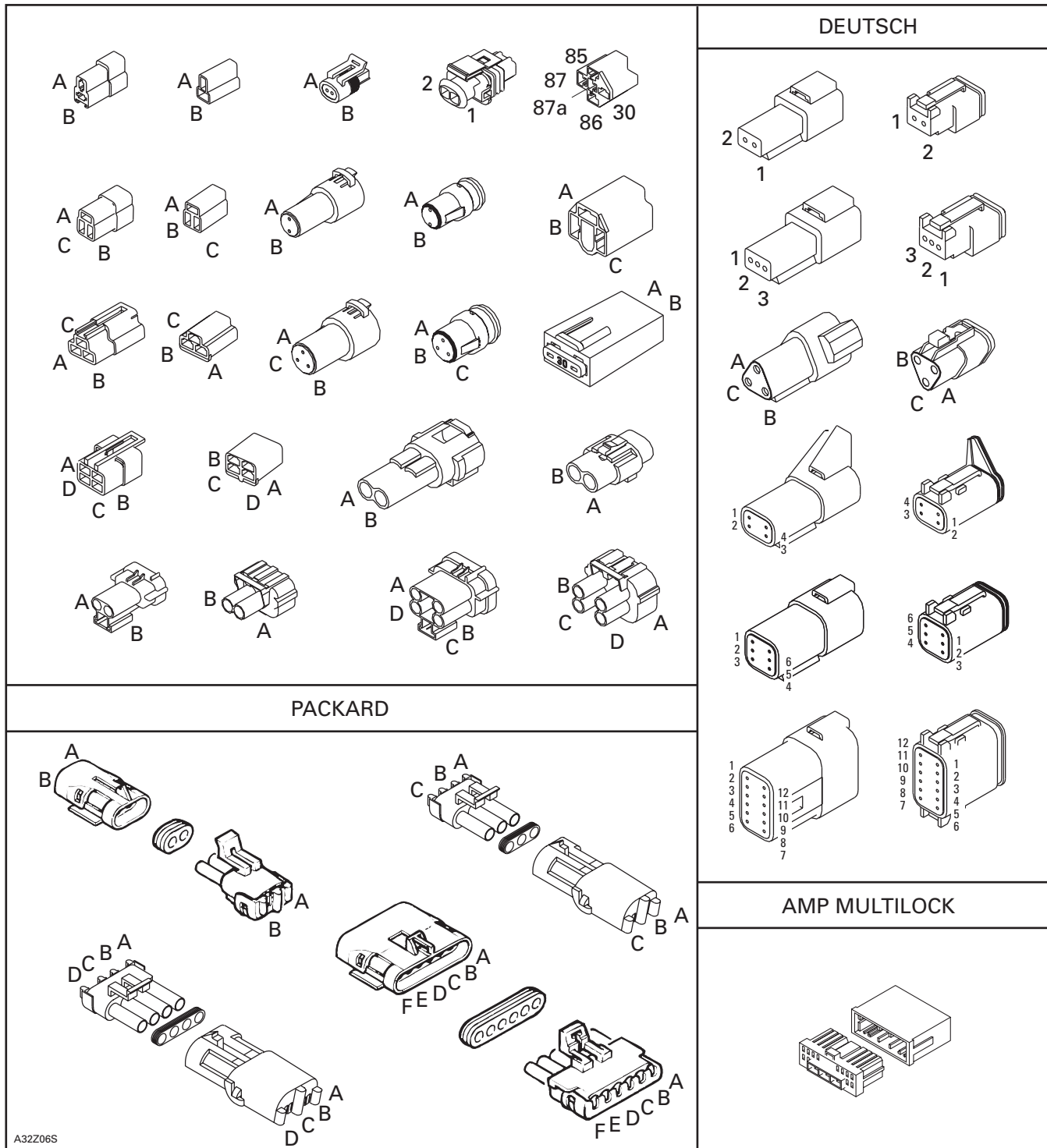
## WIRE CONNECTOR LOCATION IN HOUSING

The third portion of the connector identification number represents the location of the wire in the connector housing. This could be identified by either a number such as 1, 2, 3 or by a letter such as A, B, C depending on the type of connector used.



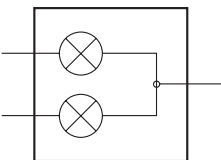
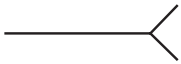
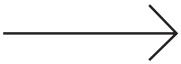
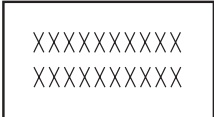
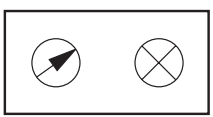

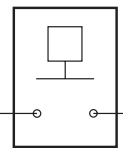
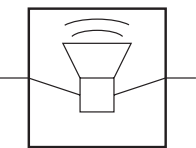
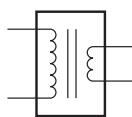
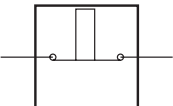
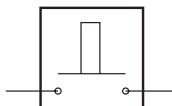





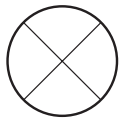
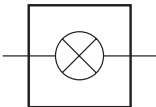
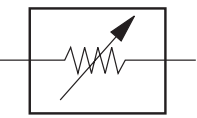
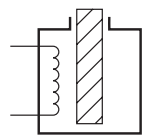

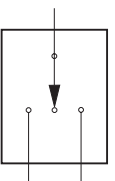
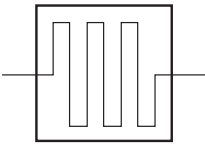
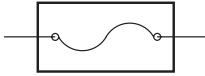

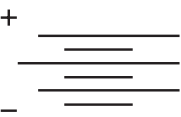
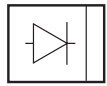

# Section 11 WIRING DIAGRAMS

## Subsection 01 (WIRING DIAGRAMS)



A32Z06S

**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>  |

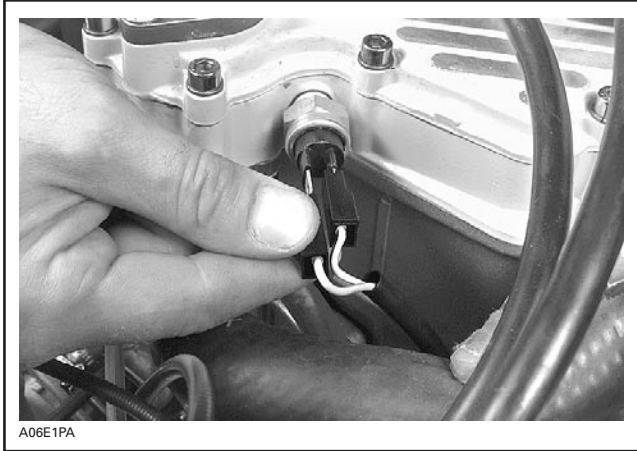
A00E55S

## Section 11 WIRING DIAGRAMS

### Subsection 01 (WIRING DIAGRAMS)

## UNPLUGGING CONNECTORS

Always unplug connectors by pulling on housing not on wire.

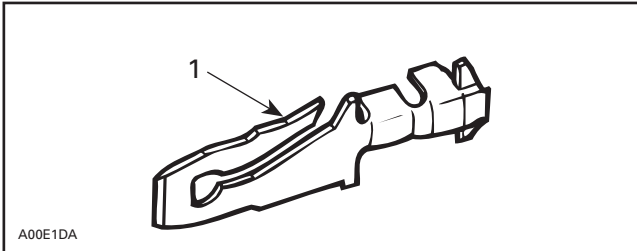


TYPICAL

## TAB AND RECEPTACLE CONNECTOR REMOVAL

### Tab Connector

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

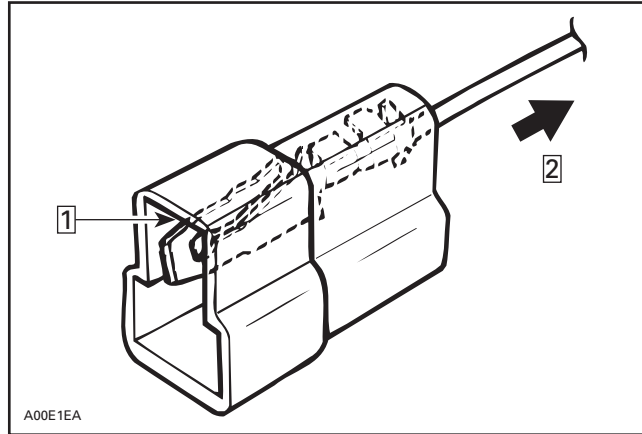


TAB CONNECTOR

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.



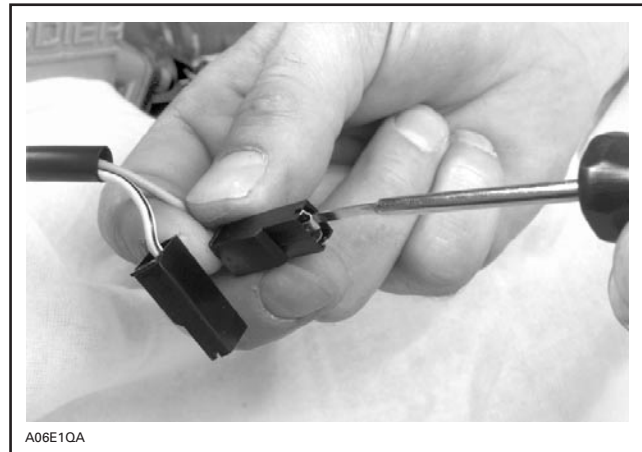
Step 1: Insert screwdriver here

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.

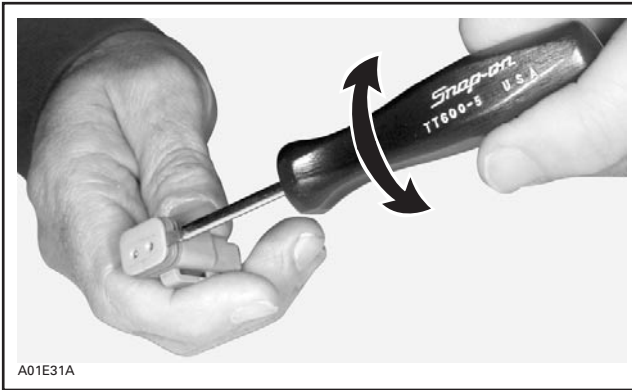


## Waterproof Connector Housing

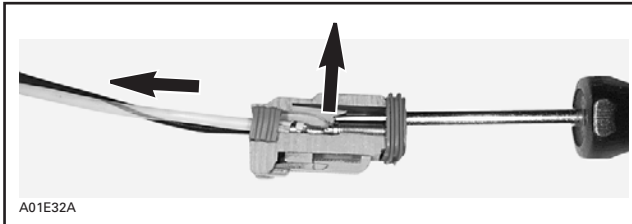
### Female Connector Housing

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.

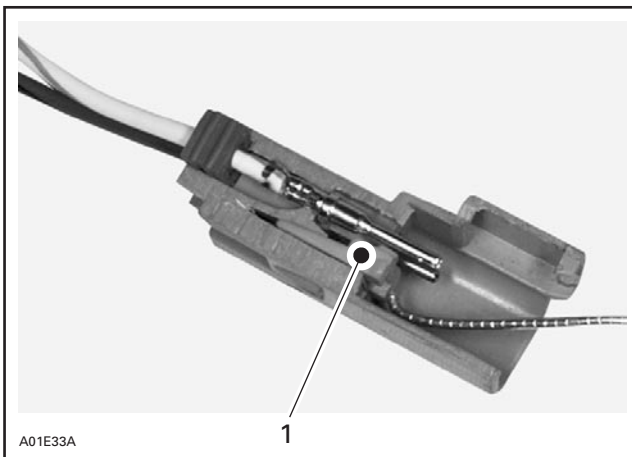


*FEMALE CONNECTOR HOUSING — CUT-AWAY*

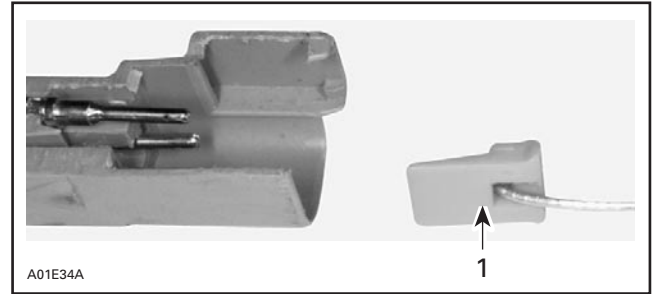
### Male Connector Housing

To remove:

- Using a small hook, pull out the lock.

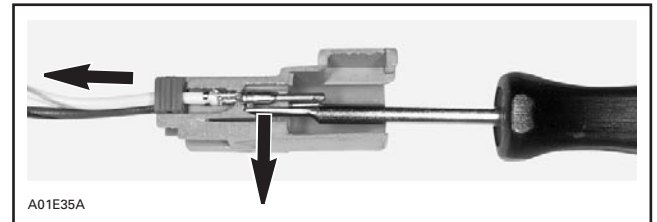


1. Lock



1. Lock

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

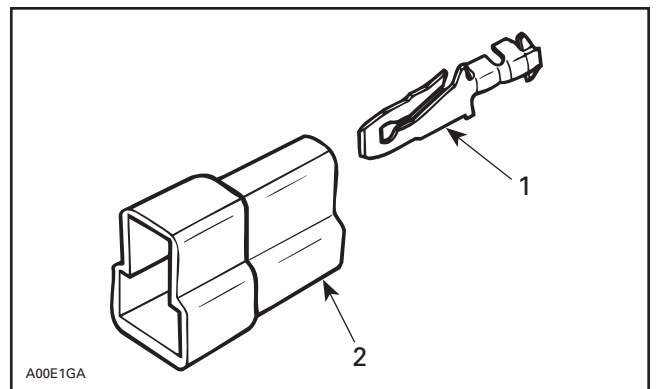


*MALE CONNECTOR HOUSING — CUT-AWAY*

## TAB AND RECEPTACLE CONNECTOR INSTALLATION

Prior to installing a connector, 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.



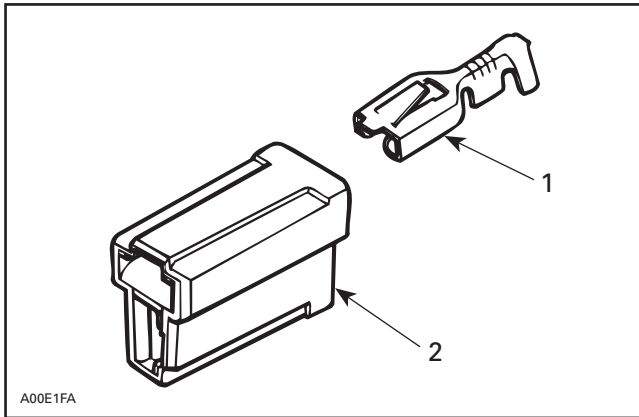
1. Tab  
2. Housing

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## 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 both YELLOW lighting coil wires.

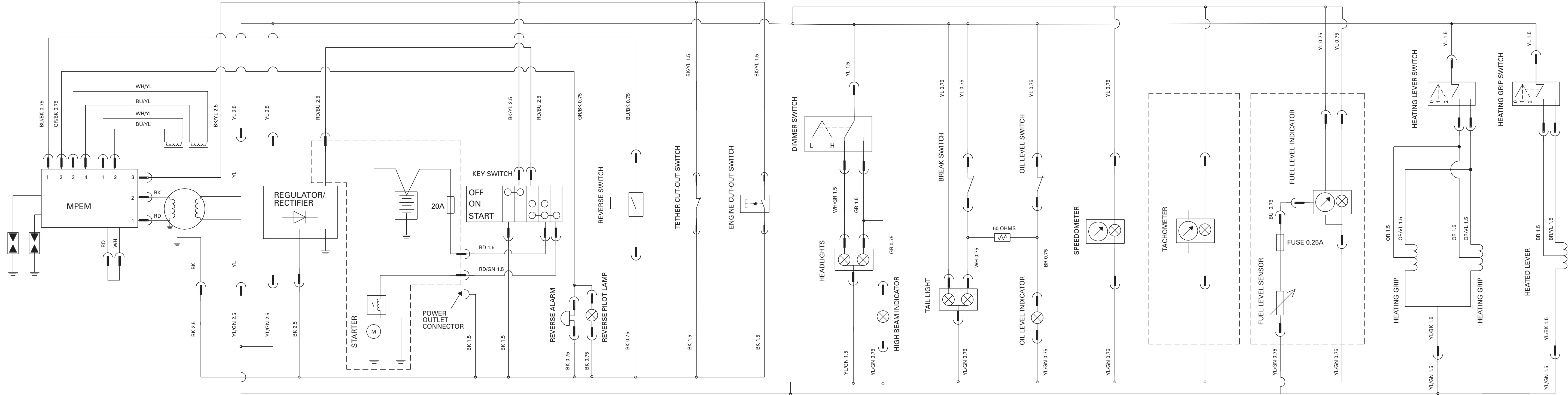
Even if **manual start models** have an AC ground to the chassis (on voltage regulator), all accessories utilize a ground wire isolated from chassis. When an electric starter kit is installed, the voltage regulator and its ground wire are replaced by a voltage rectifier/regulator unit permitting a completely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



# 2003 SKANDIC LT 440



IGNITION SYSTEM

POWER SUPPLY

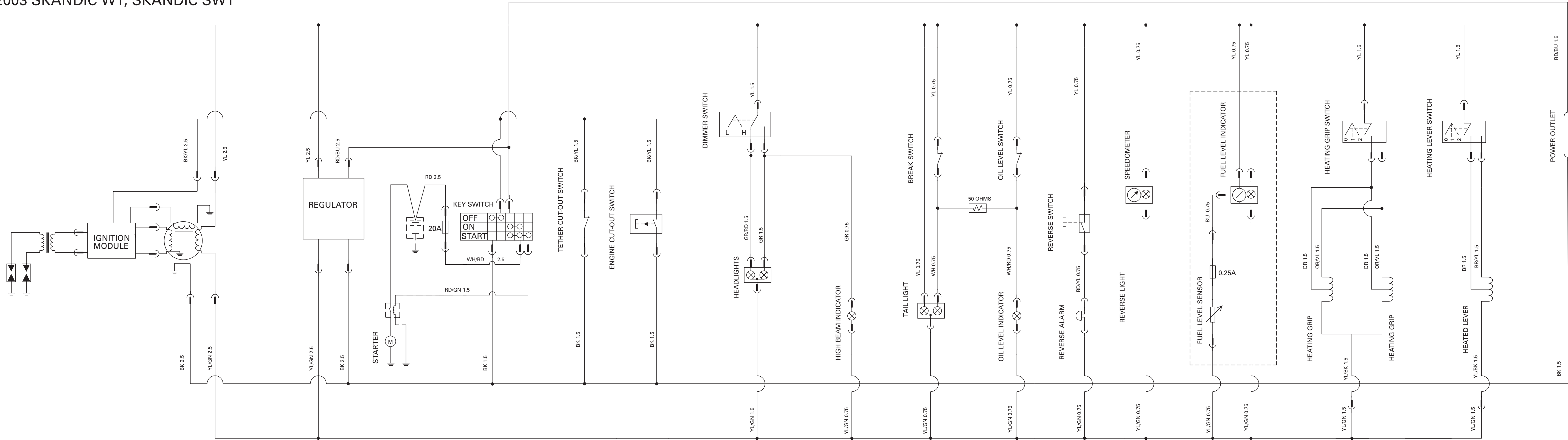
STARTER AND IGNITION SWITCHES

LIGHTING

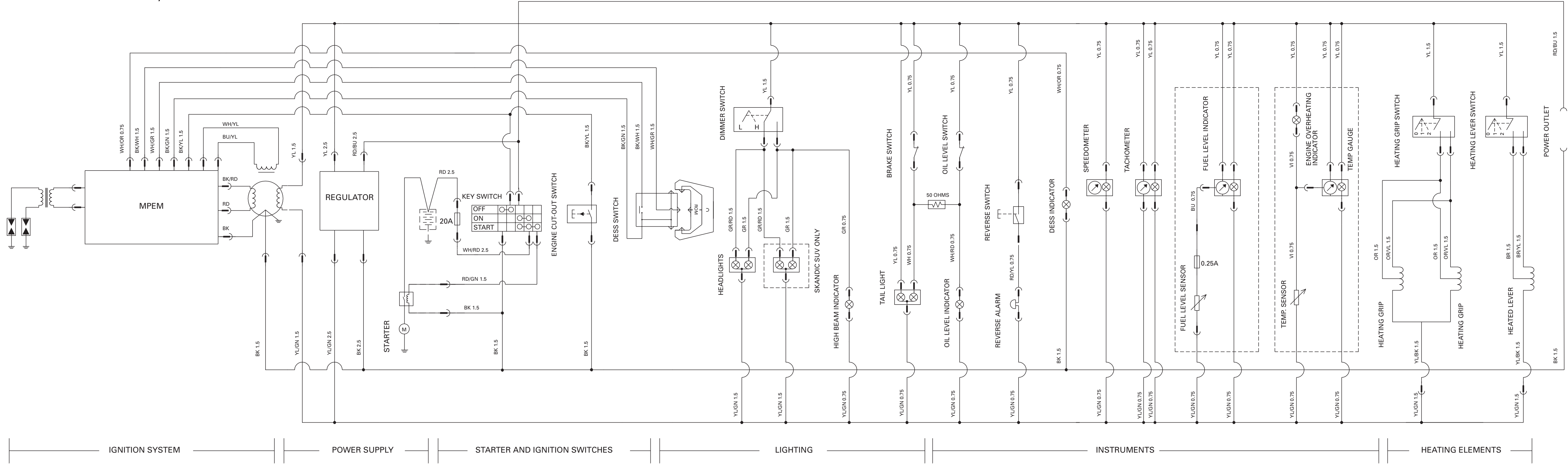
INSTRUMENTS

HEATING ELEMENTS

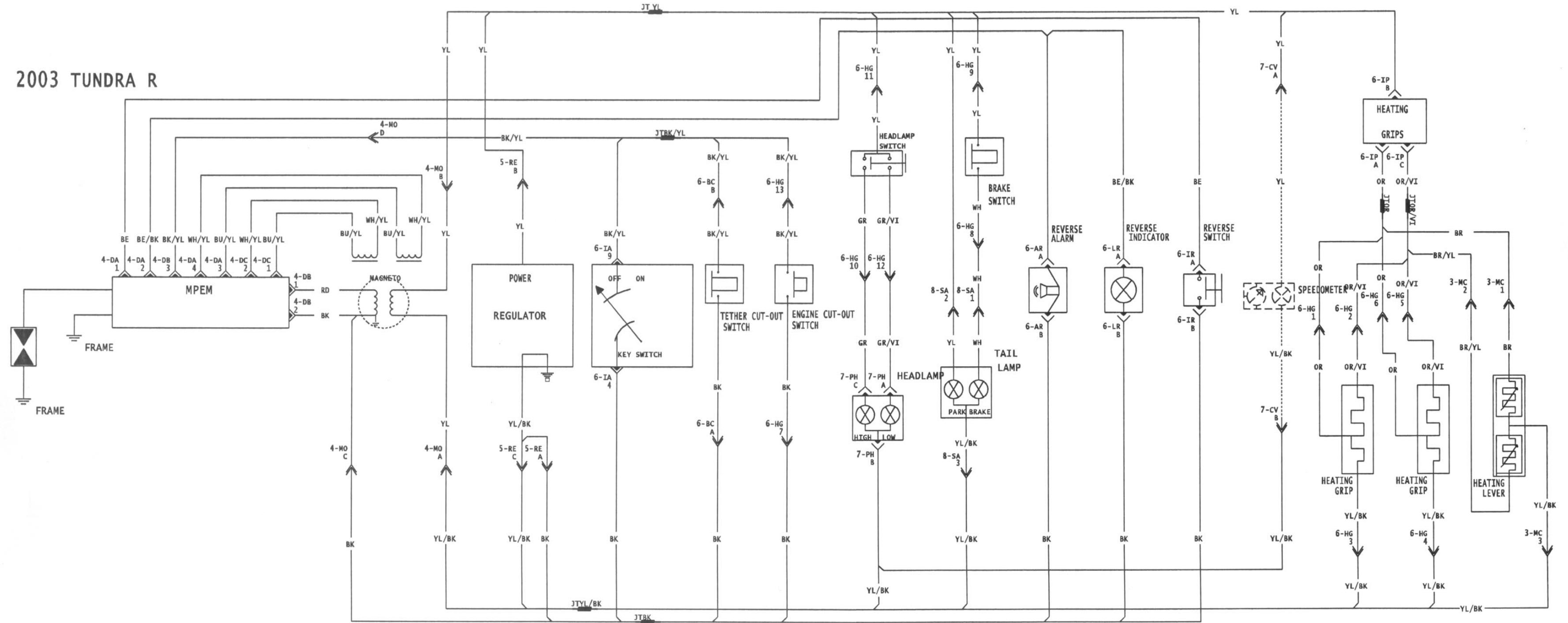
2003 SKANDIC WT, SKANDIC SWT



# 2003 SKANDIC WT LC, SKANDIC SUV



# 2003 TUNDRA R



IGNITION SYSTEM

POWER SUPPLY

IGNITION SWITCHES

LIGHTING

INSTRUMENTS

HEATING ELEMENTS