

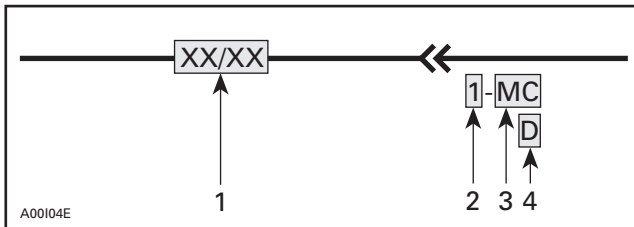
WIRING DIAGRAMS

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

WIRING DIAGRAM LEGEND

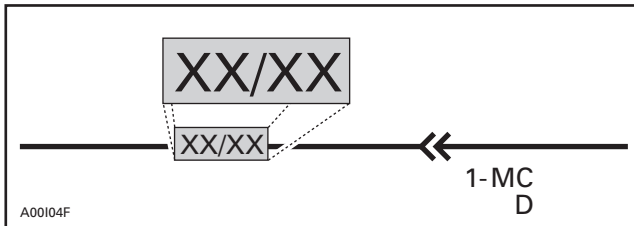
⚠ WARNING

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



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

WIRE COLORS



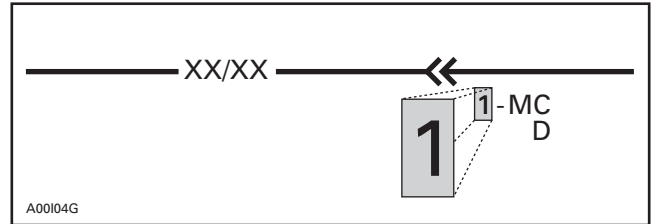
The first color of a wire is the main color, second color is the stripe.

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

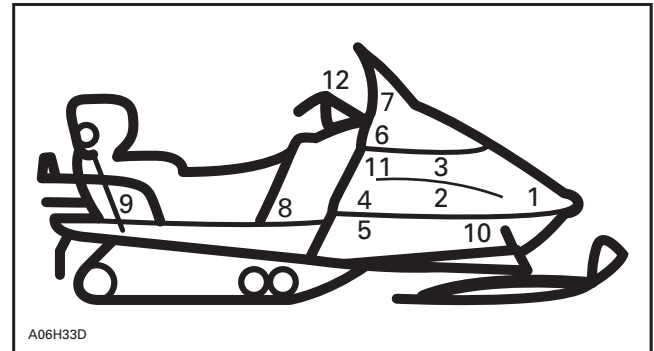
COLOR CODE	
BE - BEIGE	OR - ORANGE
BK - BLACK	RD - RED
BU - BLUE	VI - VIOLET
BR - BROWN	WH - WHITE
GN - GREEN	YL - YELLOW
GY - GREY	

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.



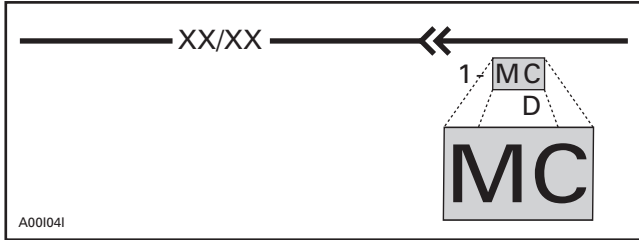
AREA	LOCATION
1	Front of engine compartment
2	Right hand side of engine
3	Engine
4	Near right hand side footrest
5	Near driven pulley
6	Under console
7	Under hood
8	Near fuel tank
9	Rear of seat
10	Under engine
11	Near steering column or on air intake silencer
12	On handlebar

Section 09 WIRING DIAGRAMS

Subsection 01 (WIRING DIAGRAMS)

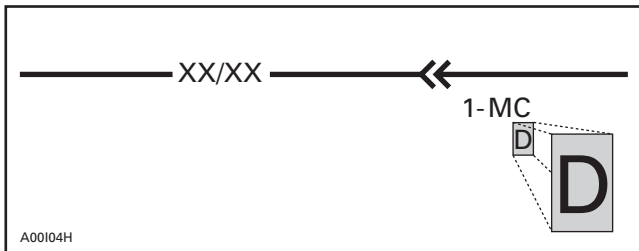
HOUSING REFERENCE PER AREA

The next two letters of the connector identification number represents a connector reference. If there are many connectors in the same area this helps identify which wire is in which connector.

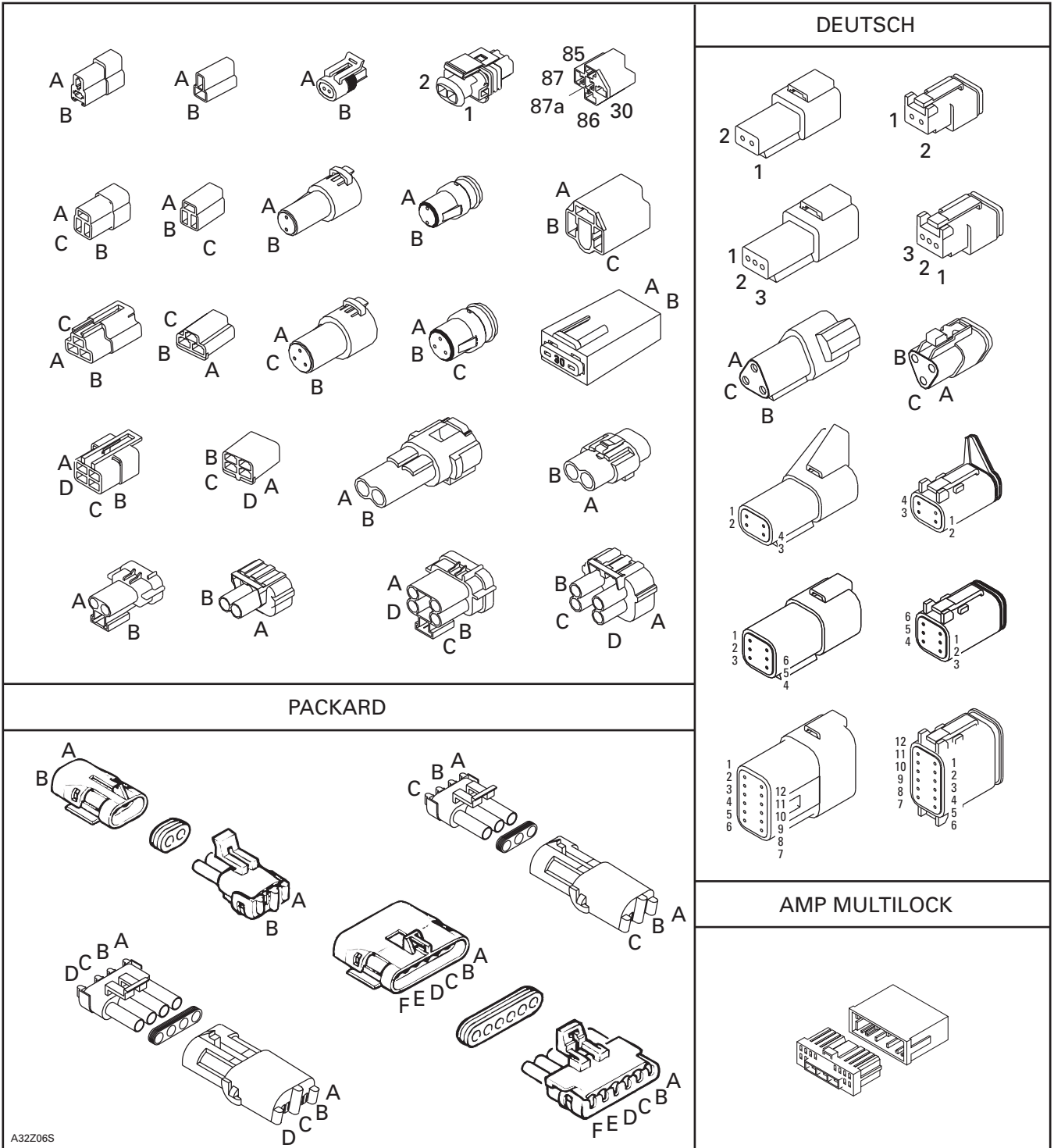


WIRE LOCATION IN CONNECTOR HOUSING

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.



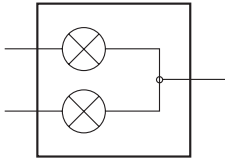
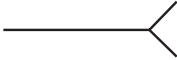
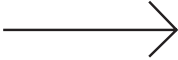
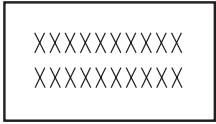
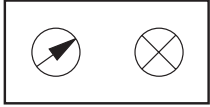
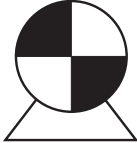
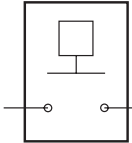
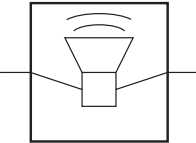
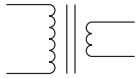
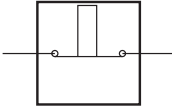
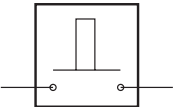




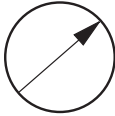
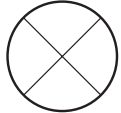
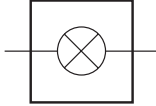
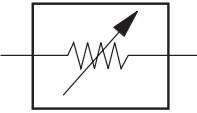
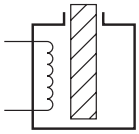

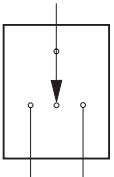
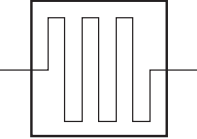
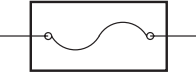




Section 09 WIRING DIAGRAMS
 Subsection 01 (WIRING DIAGRAMS)



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Section 09 WIRING DIAGRAMS
 Subsection 01 (WIRING DIAGRAMS)

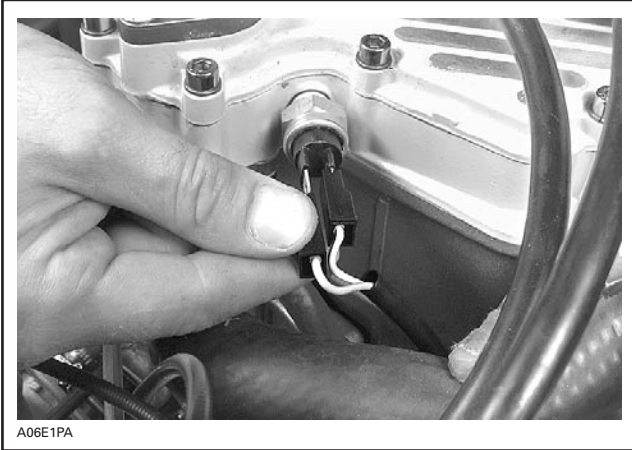
SYMBOLS DESCRIPTION

<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</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.

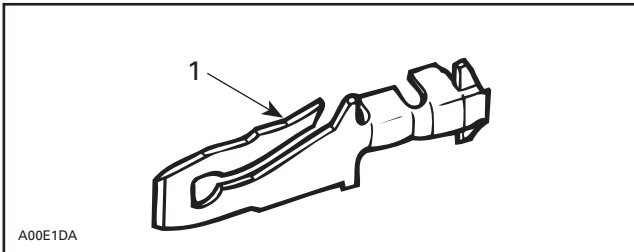


TYPICAL

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.

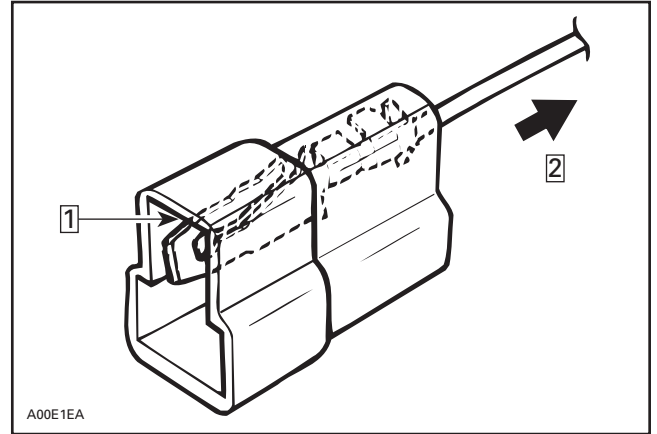


TAB CONNECTOR

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.



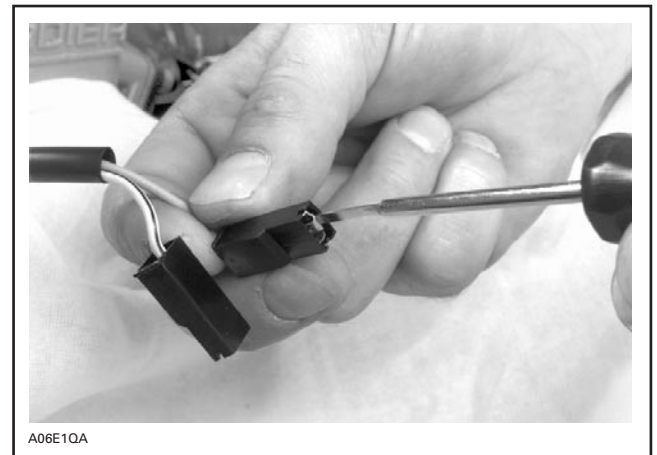
Step 1: Insert screwdriver here

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 09 WIRING DIAGRAMS

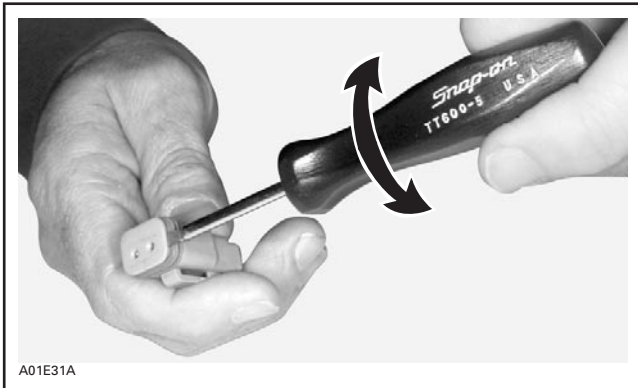
Subsection 01 (WIRING DIAGRAMS)

Waterproof Connector Housing

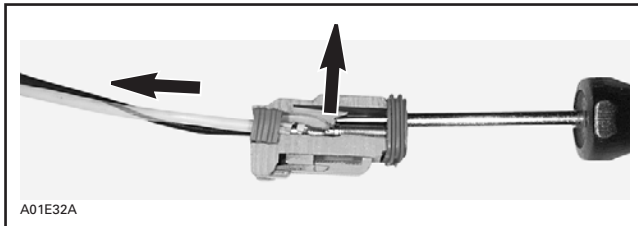
Female Connector Housing

To remove:

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



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

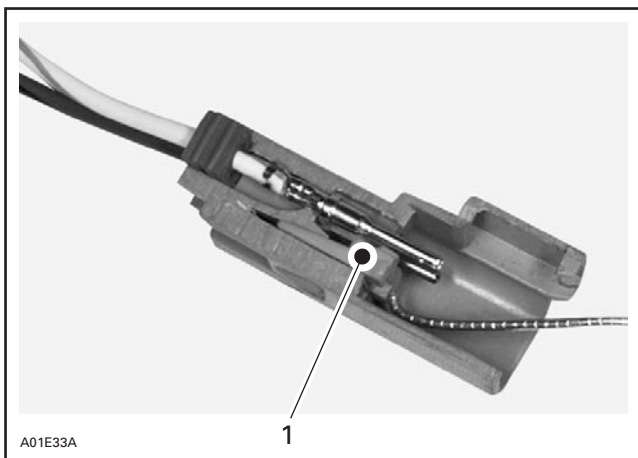


FEMALE CONNECTOR HOUSING — CUT-AWAY

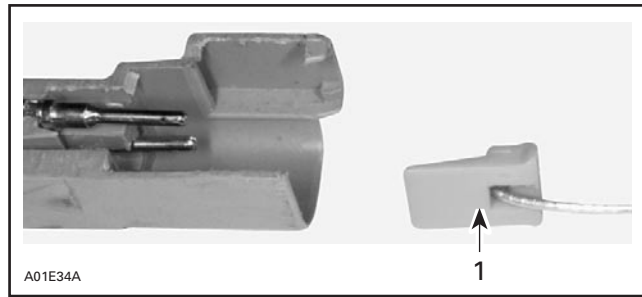
Male Connector Housing

To remove:

- Using a small hook, pull out the lock.

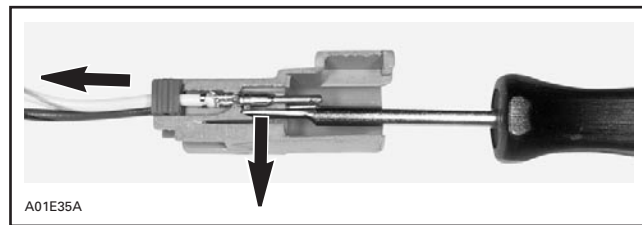


1. Lock



1. Lock

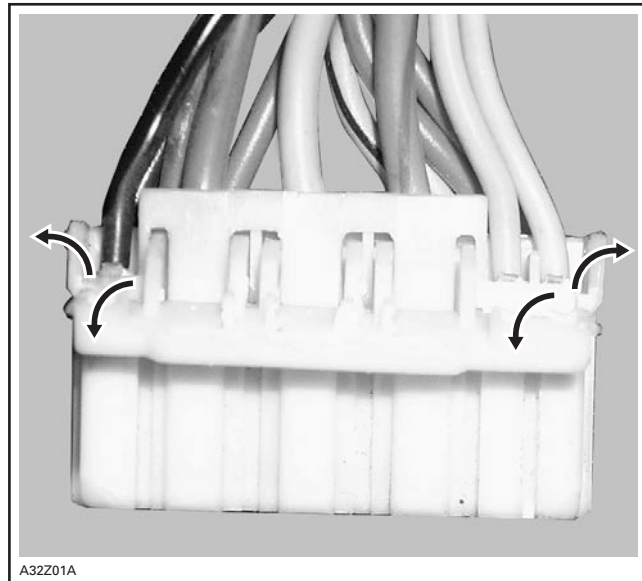
- Pry tab to free connector then pull wire out of housing.



MALE CONNECTOR HOUSING — CUT-AWAY

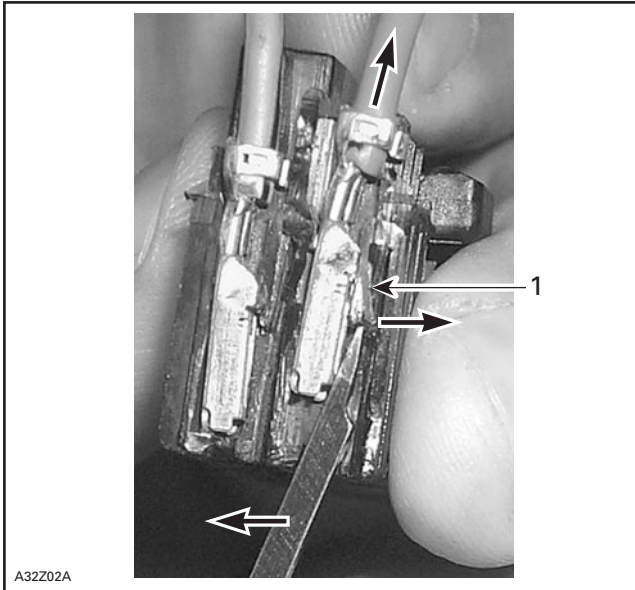
Multilock Connector Housing

Female Connector Housing



To remove:

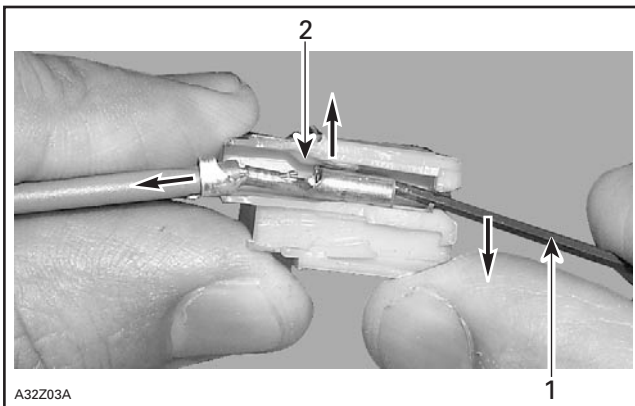
- Insert tool AMP- 755430-2 under lock and twist to lift it.



FEMALE CONNECTOR HOUSING — CUT-AWAY

1. Lock

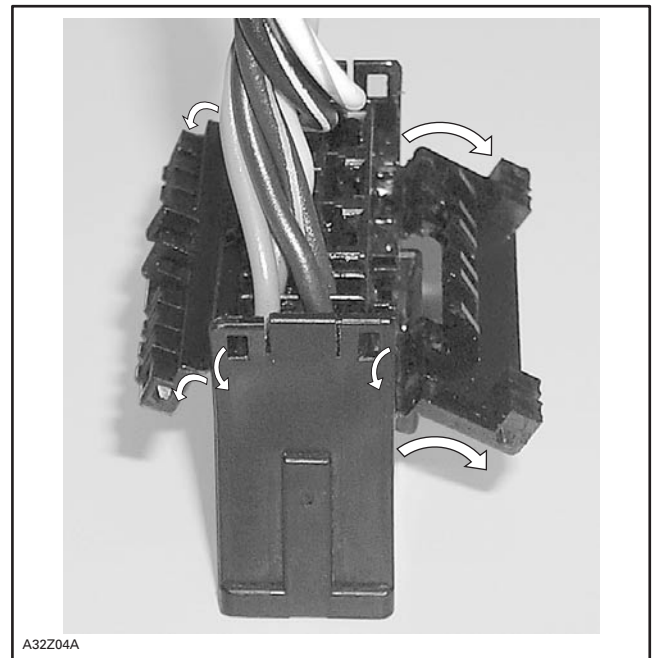
Receptacle connectors can be removed from female housing with sharp head pin.



FEMALE CONNECTOR HOUSING — CUT-AWAY

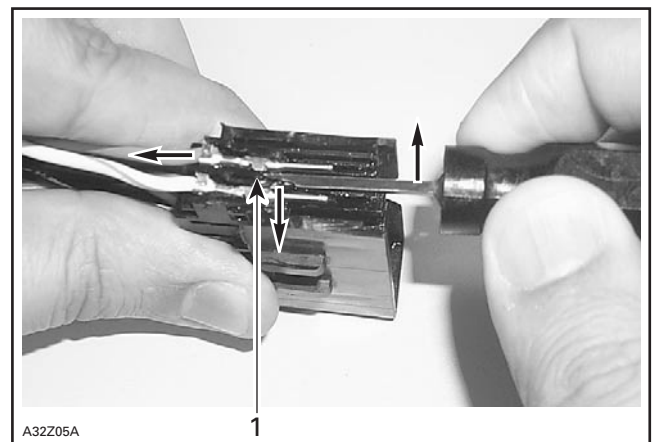
1. Sharp head pin
2. Lock

Male Connector Housing



To remove:

- Insert tool AMP-755430-2 under lock and twist to lift it.



MALE CONNECTOR HOUSING — CUT-AWAY

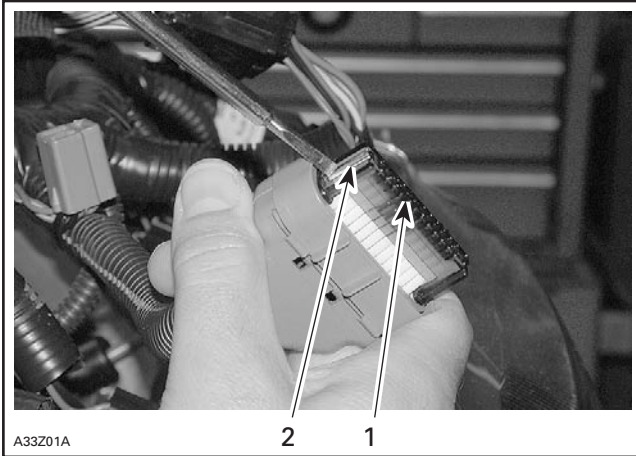
1. Lock

Section 09 WIRING DIAGRAMS

Subsection 01 (WIRING DIAGRAMS)

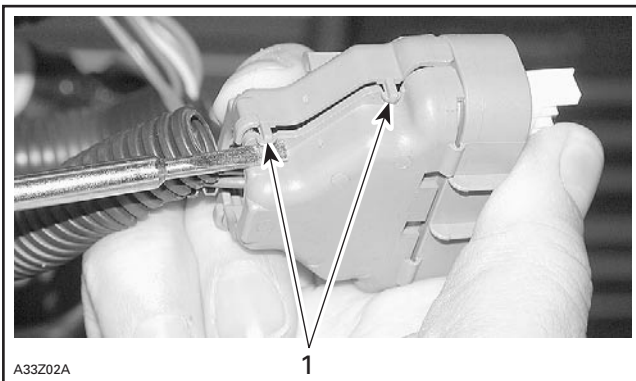
24-Circuit Connector Housing

Push on both tabs to remove retainer.



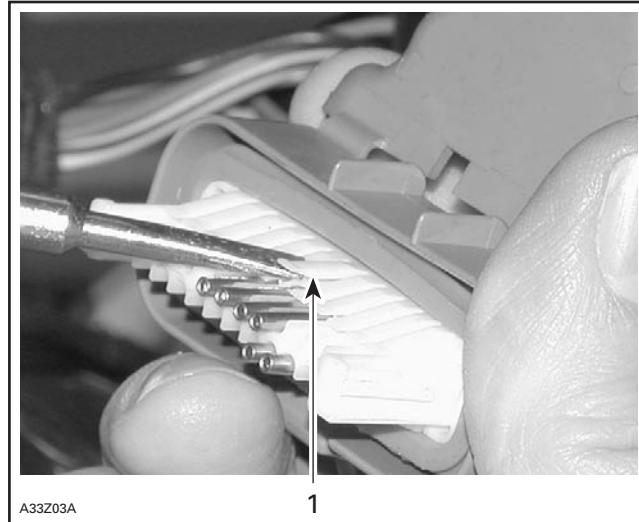
1. Retainer
2. Tab (one on each side)

Open housing by lifting 4 tabs.



1. Tabs (2 on each side)

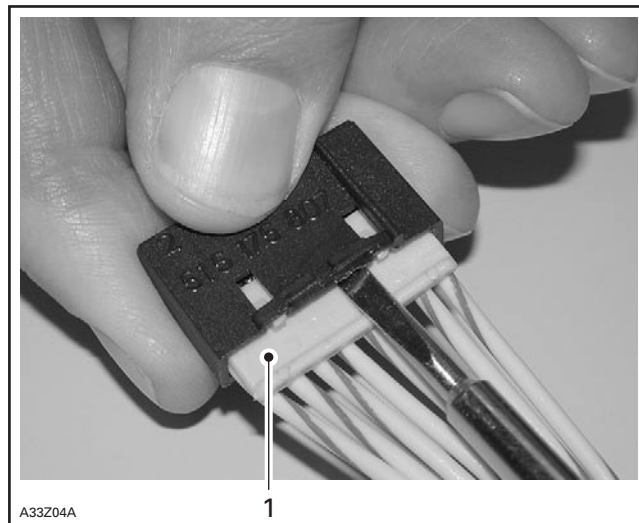
Lift plastic lock of the female terminal to be removed. Pull on the female terminal wire to remove female terminal from housing.



1. Plastic lock

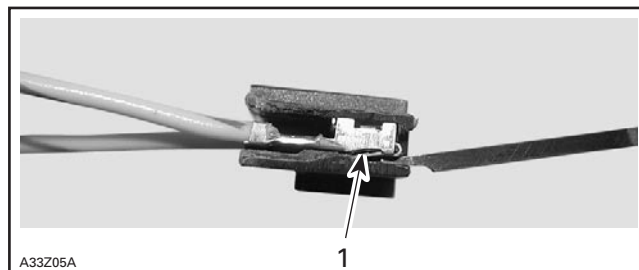
8-Circuit Connector Housing

Pry housing to release lock.



1. Lock

Insert tool AMP- 755430-2 under tab and pry it to free connector. Pull on the female terminal wire to remove female terminal from housing.



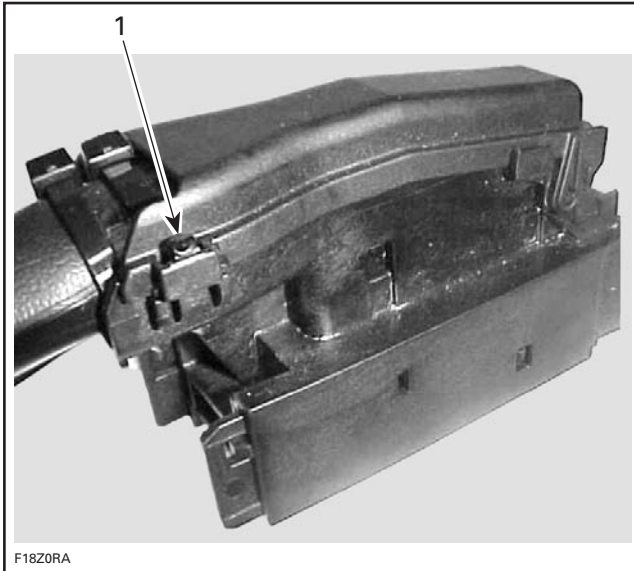
8-CIRCUIT CONNECTOR HOUSING — CUT-AWAY

1. Tab

Connector housing A and B on ECM

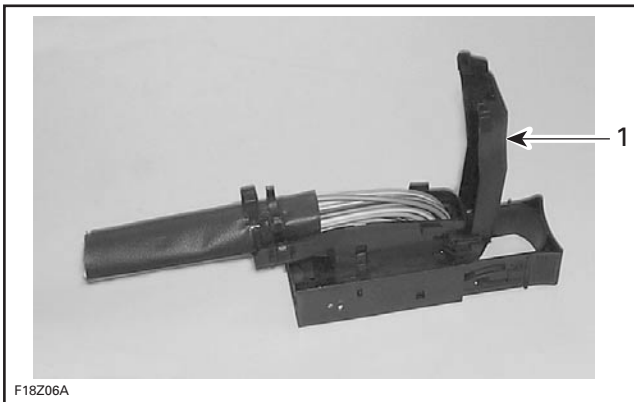
Terminal Removal

Unlock the connector housing cover by pushing in the tabs on top of the housing with a flat screwdriver to be able to flip the top cover up.



1. Push in tab

Lift the cover by pushing it forward.



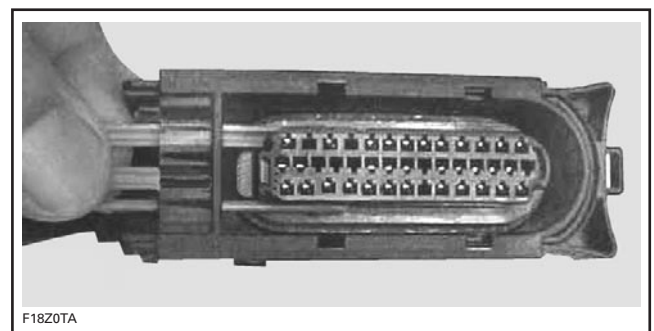
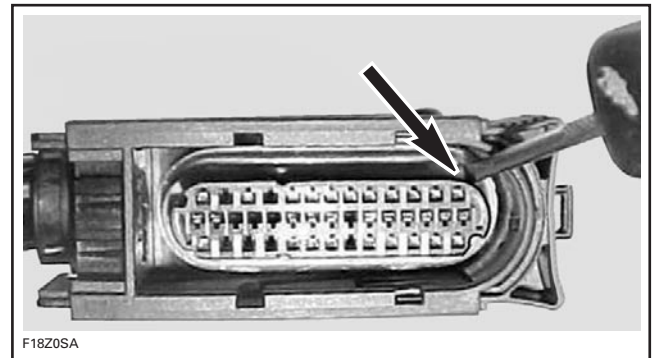
1. Cover

Cut both locking ties that secure the harness to the housing.



1. Locking ties

Turn the housing over and remove the lock by pushing and then pulling toward the wire harness.



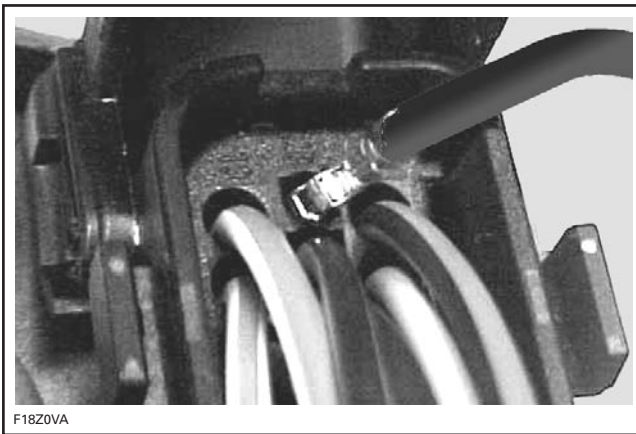
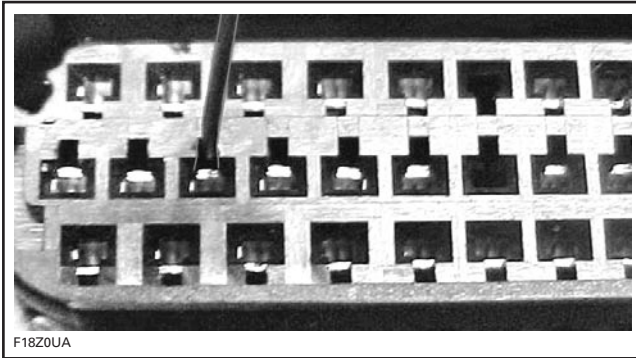
Use a 0.76 mm (.030 in) oxyacetylene torch tip cleaner or a no. 68 drill bit inserted down into the housing to release the locking tab on the connector.

CAUTION: Using a probe larger than 0.76 mm (.030 in) may damage the terminal.

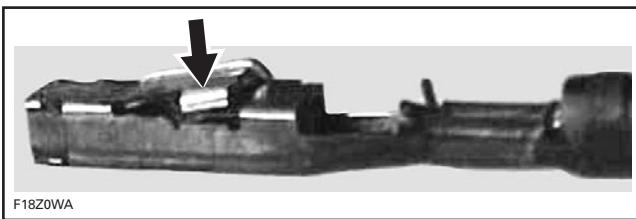
Section 09 WIRING DIAGRAMS

Subsection 01 (WIRING DIAGRAMS)

Insert the probe into the housing as shown, and locate the appropriate wire in the back of the housing. You may have to slightly cam the probe against the locking tab to release it, then remove the terminal from the housing.



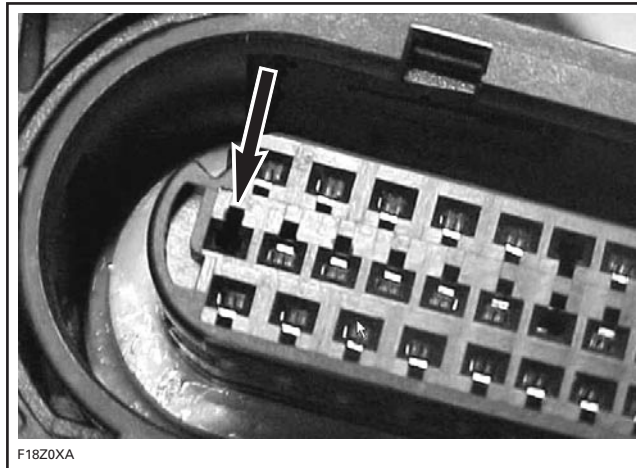
The locking tab on the connector may have to be bent out a little so it will lock in the housing when it's re-inserted.



If the wire is in good condition but the terminal is rusted or corroded, remove defective terminal and crimp a new one. If wire and terminal are defective, acquire a new genuine wire and new terminal and crimp them together as explained below.

IMPORTANT: Use genuine wires only. Otherwise wires will not fit properly.

When re-inserting the connector, the locking tab must be installed facing the smaller cutout of the connector cavity.



Insert the connector, ensuring the locking tab snaps into the housing.

Re-install the lock, attach the 2 tie raps, and close the housing cover.

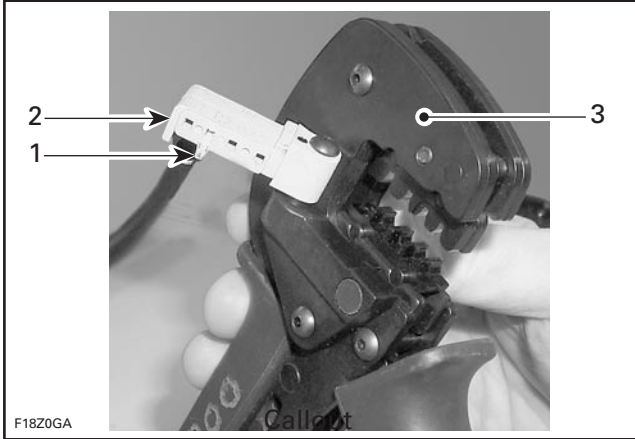
Terminal Crimping

To crimp a new connector terminal, use the ECM connector crimping tool (P/N 529 035 905).



1. ECM crimping tool

Install the new terminal in the crimping tool swivel. Close the swivel in place. Place the wire on terminal barrel and crimp the wire firmly.



1. New terminal
2. Crimping tool swivel
3. Crimping tool

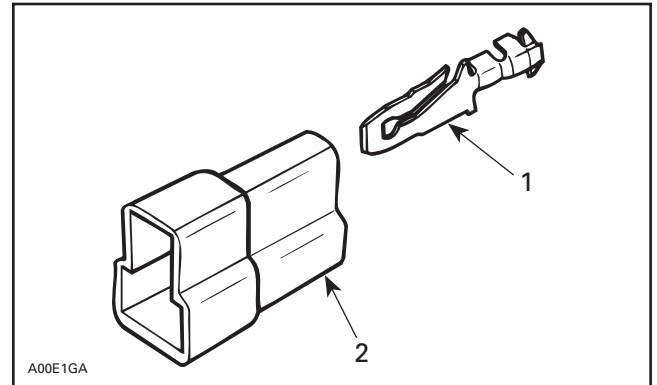


1. Crimping tool swivel
2. Crimping tool
3. Wire

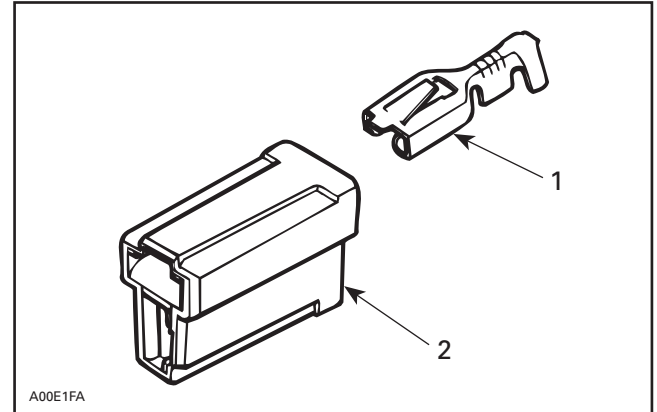
TAB AND RECEPTACLE CONNECTORS INSTALLATION

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

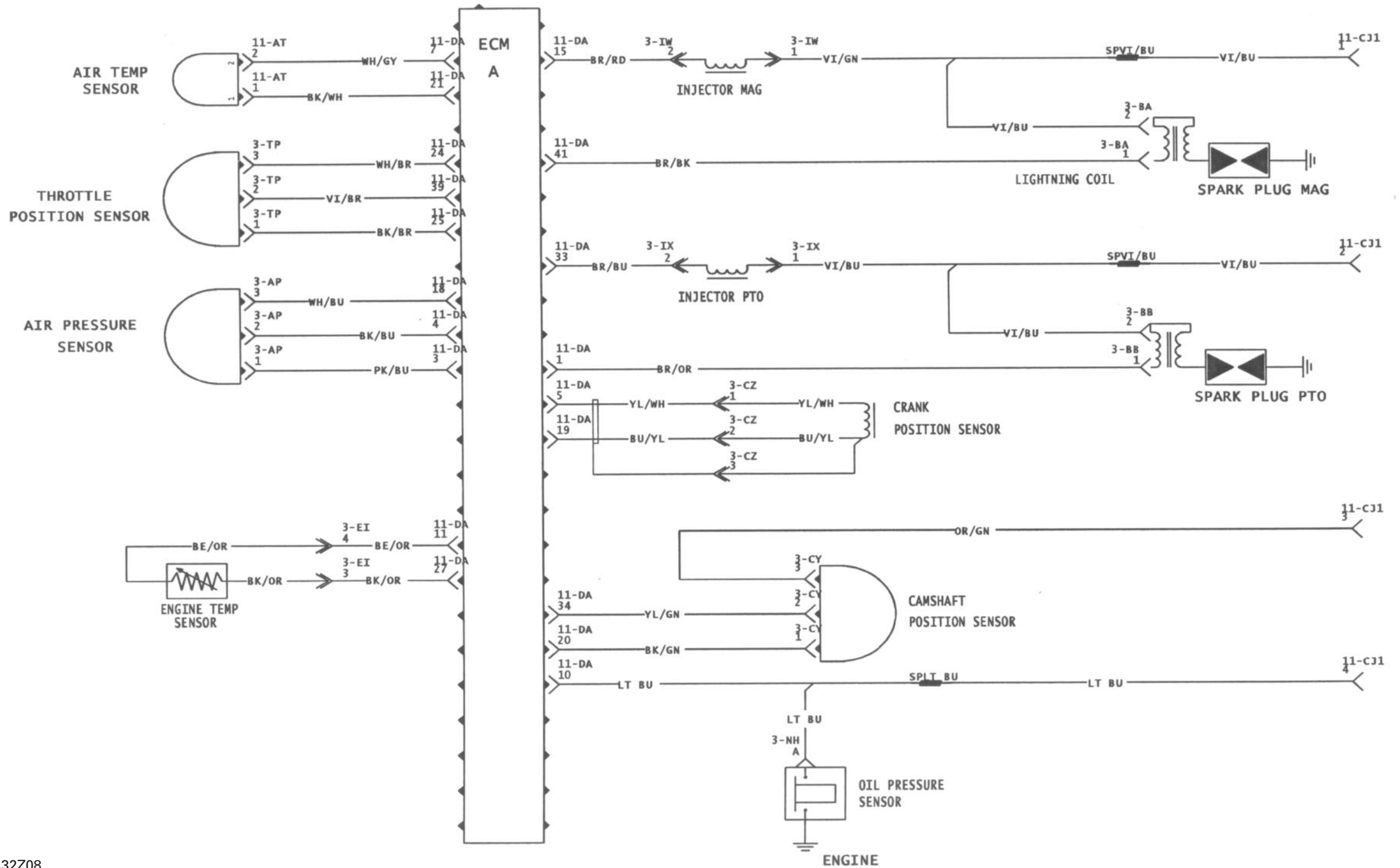


- TYPICAL*
1. Receptacle
 2. Housing

⚠ WARNING

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

2003 4-TEC V-1000 MODELS ENGINE WIRING HARNESS



2003 4-TEC V-1000 MODELS
VEHICLE WIRING HARNESS

