

CONNECTOR INFORMATION

SERVICE TOOLS

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SERVICE TOOLS – OTHER SUPPLIER

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| DELPHI METRI-PACK REMOVAL TOOL (GREEN) | 12094429 | 5 |
| JAE EXTRACTION TOOL | ET-MX44-1 | 5 |
| SNAP-ON SCREWDRIVER | TT600-5 | 1 |

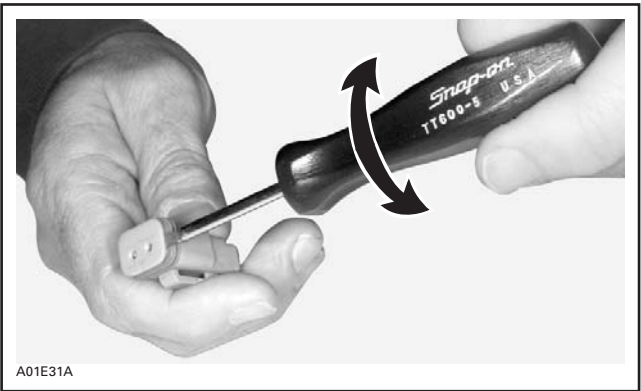
GENERAL

DEUTSCH CONNECTOR

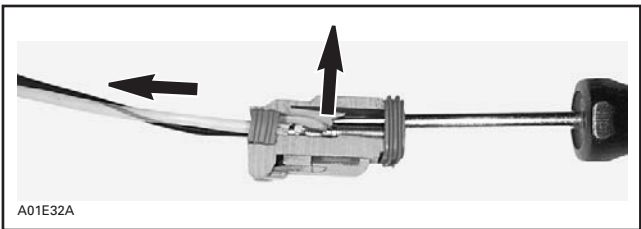
Connector Disassembly

Male Housing

Insert SNAP-ON SCREWDRIVER (P/N TT600-5) under lock and twist to lift it.



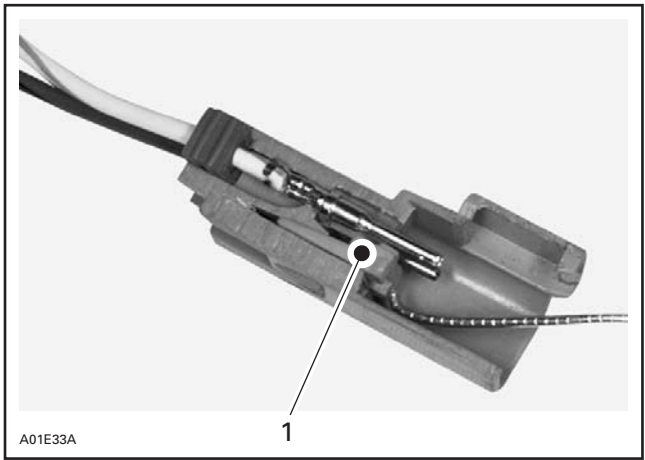
Pry tab to free connector then pull wire out of housing.



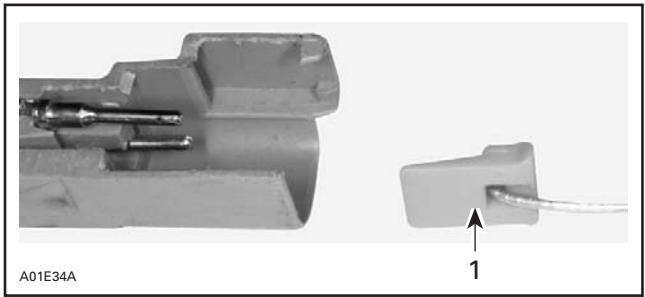
FEMALE CONNECTOR HOUSING — CUT-AWAY

Female Housing

Using a small hook, pull out the lock.

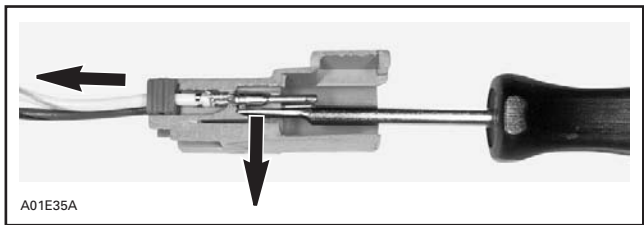


1. Lock



1. Lock

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



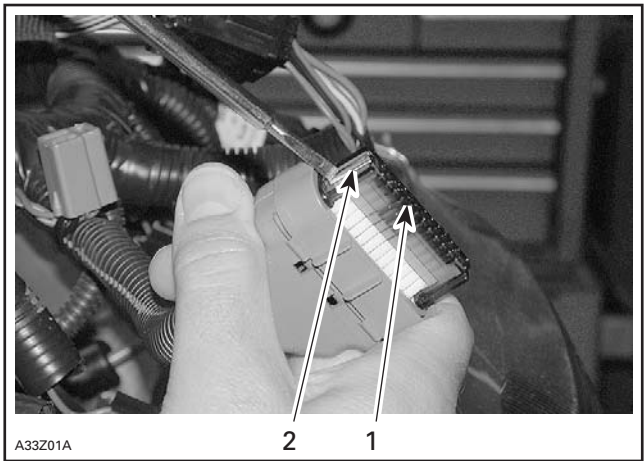
FEMALE HOUSING — CUT-AWAY

PACKARD CONNECTOR

Connector Disassembly

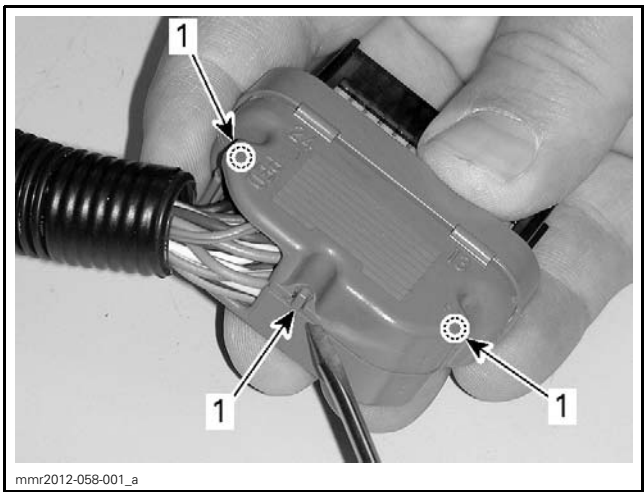
Multifunction Gauge

Push on both tabs to remove retainer.



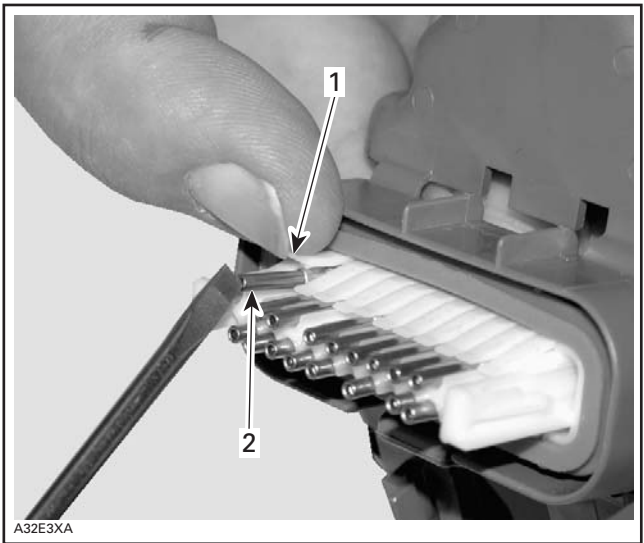
TYPICAL
1. Retainer
2. Tab (one on each side)

Open connector housing by lifting 3 retaining tabs.



TYPICAL
1. Tabs (2 are hidden from view)

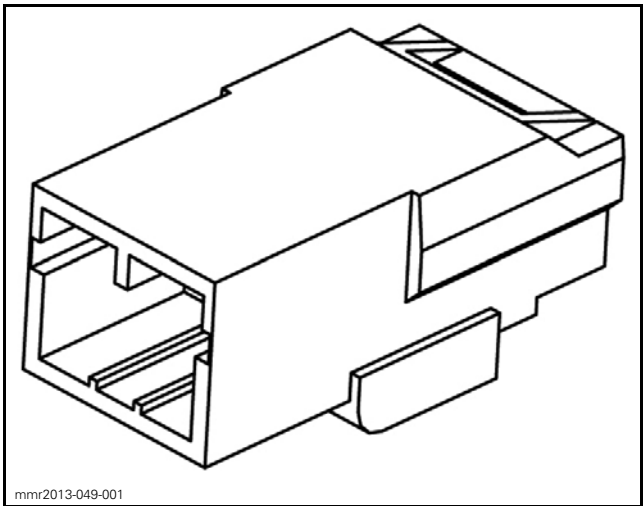
Lift the top plastic lock of the female terminal to be removed and hold in position. Lift the female terminal to unlock from the housing and push out of housing.



1. Lift and hold plastic lock
2. Lift to unlock and push out

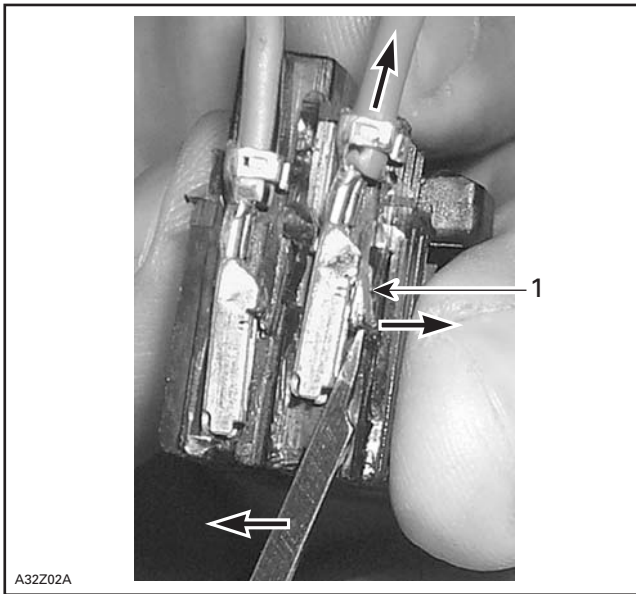
AMP MULTILOCK CONNECTOR
(e.g: DESS (DS))

Connector Disassembly



Male Housing

Insert AMP EXTRACTION TERMINAL TOOL (P/N 755430-2) under lock and twist to lift it.



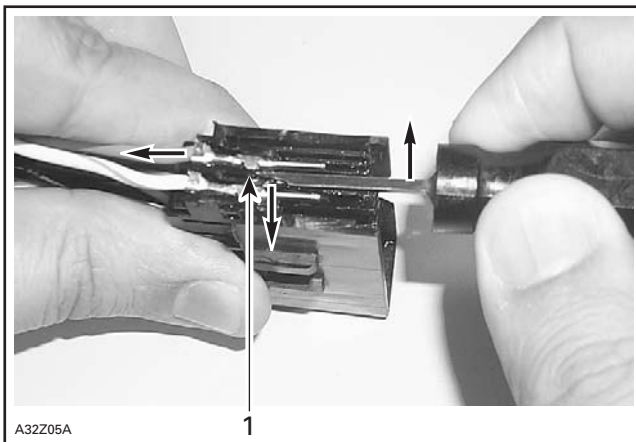
TYPICAL MALE HOUSING — CUT-AWAY

1. Lock

Female terminals can be removed from housing with sharp head pin.

Female Housing

Insert AMP EXTRACTION TERMINAL TOOL (P/N 755430-2) under lock and twist to lift it.



TYPICAL FEMALE HOUSING — CUT-AWAY

1. Lock

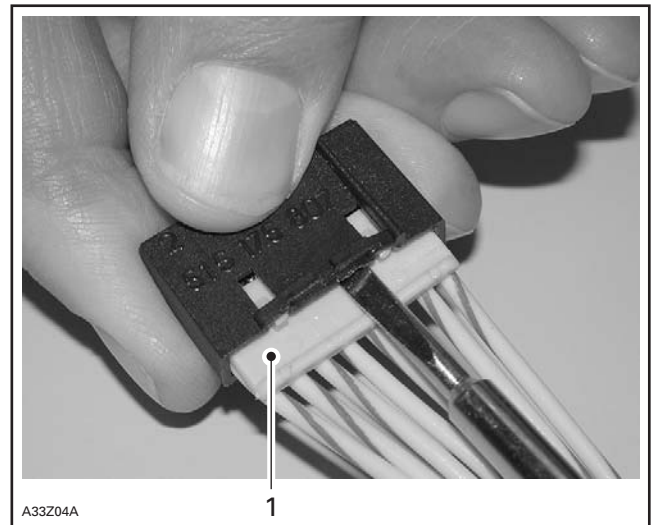
Terminal Crimping

Refer to *TERMINAL CRIMPING (AMP 8-CIRCUIT AND MULTILOCK)* further in this subsection.

AMP CONNECTOR (8-CIRCUIT)

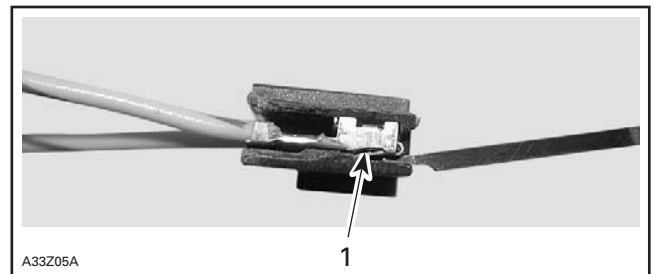
Connector Disassembly

Pry housing to release lock.



1. Lock

Insert AMP EXTRACTION TERMINAL TOOL (P/N 755430-2) under tab and pry it to free connector. Pull on the female terminal wire to remove female terminal from housing.



AMP 8-CIRCUIT CONNECTOR — CUT-AWAY

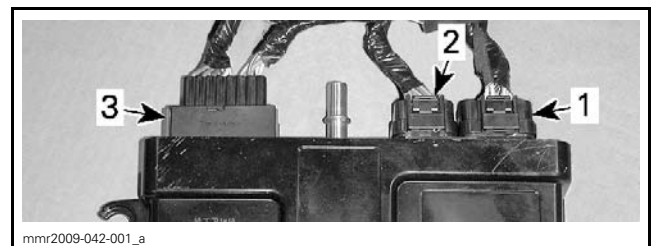
1. Tab

Terminal Crimping

Refer to *TERMINAL CRIMPING* further in this subsection.

AMP CONNECTOR (ALL E-TEC ECM)

Connector Identification

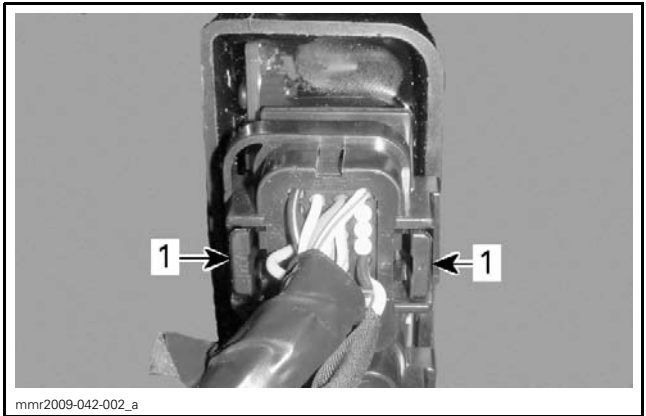


1. J1A connector
2. J1B connector
3. J2 connector

Connector Removal

J1A and J1B Connectors

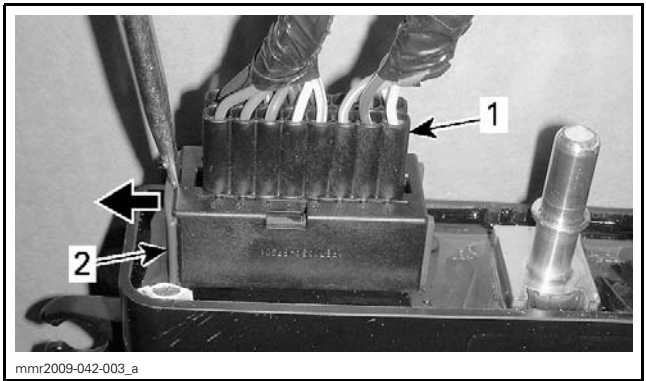
Depress both latches and pull connector housing.



1. Latches

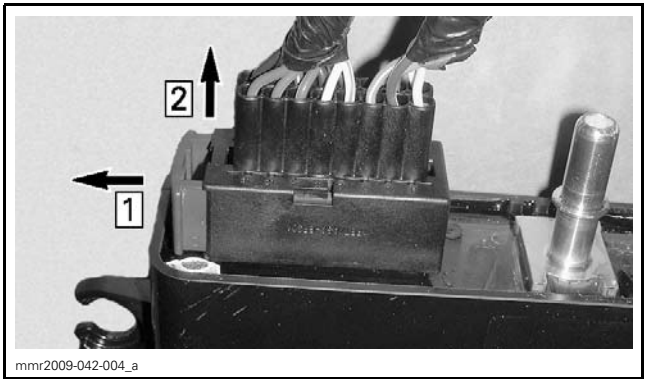
J2 Connector

Using a small screwdriver, open the connector lock.



1. Connector
2. Connector lock

Pull the lock approximately 20 mm (3/4 in) to remove the connector.

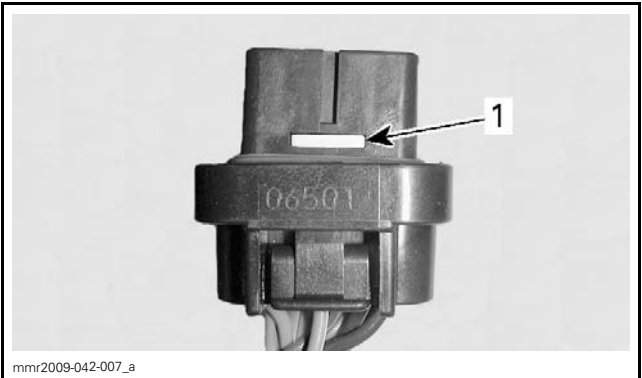


Step 1: Pull lock
Step 2: Lift the connector

Connector Disassembly

J1A and J1B Connectors

Push the lock mechanism to open it.



1. Lock mechanism

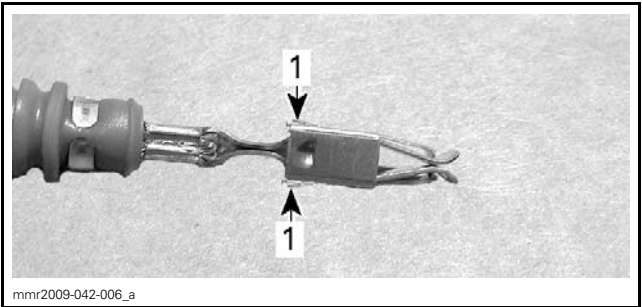
Pull on wire to extract terminal from connector housing.

J2 Connector

Using the AMP EXTRACTION TERMINAL TOOL (P/N 726503-1), release both locking tabs of connector. Pull terminal from housing.



AMP EXTRACTION TERMINAL TOOL



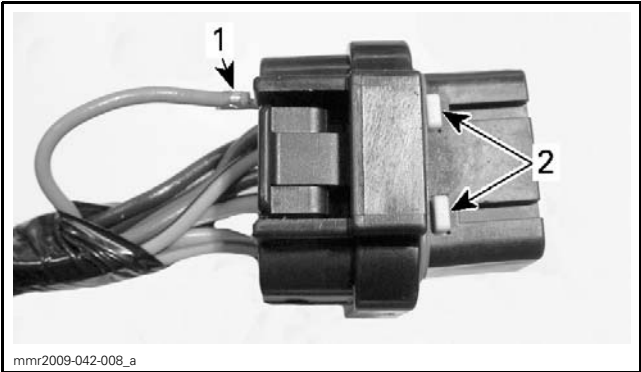
1. Locking tabs

Connector Assembly

J1A and J1B Connectors

Push terminal through seal until it is seated in connector housing.

Close the lock mechanism.



1. Insert terminal into housing
2. Push here to close the lock mechanism

NOTE: If the locking mechanism does engage, it is likely due to an improperly inserted terminal. Look at the end of connector to see if a terminal is partially out. If, so push the corresponding wire fully into connector then lock mechanism.



1. Terminal fully inserted in connector

J2 Connector

Align terminal with connector housing and push terminal with seal into connector housing until seated.

Terminal Crimping

Refer to *TERMINAL CRIMPING (AMP 8-CIRCUIT AND MULTILOCK)* further in this subsection for procedure.

DELPHI CONNECTOR (GT 150) (e.g: HEADLAMP (HL), STEERING HARNESS (SH, WMS))

| |
|--|
| TERMINAL EXTRACTION TOOL |
| DELPHI METRI-PACK REMOVAL TOOL (GREEN) (P/N 12094429) |

JAE CONNECTOR (MX44) (e.g: THCM)

| |
|-------------------------------------|
| TERMINAL EXTRACTION TOOL |
| JAE EXTRACTION TOOL (P/N ET-MX44-1) |

TERMINAL CRIMPING (AMP 8-CIRCUIT AND MULTILOCK)

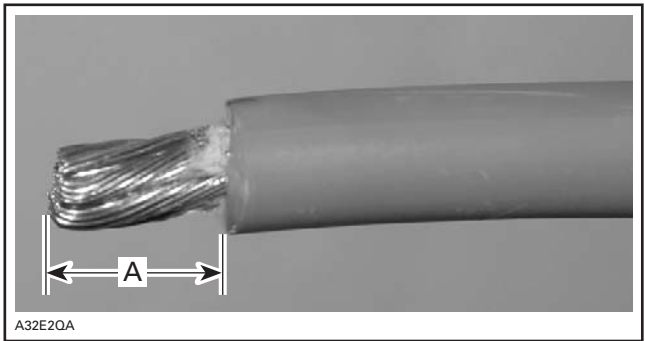
To crimp a new connector terminal, use the CRIMPING TOOL (KOSTAL) (P/N 529 035 909) and the KOSTAL DIE (P/N 529 035 906).



CRIMPING TOOL

To properly crimp the terminal on the wire, strictly follow this procedure.

Strip the wire to a maximum of 3 mm (1/8 in).

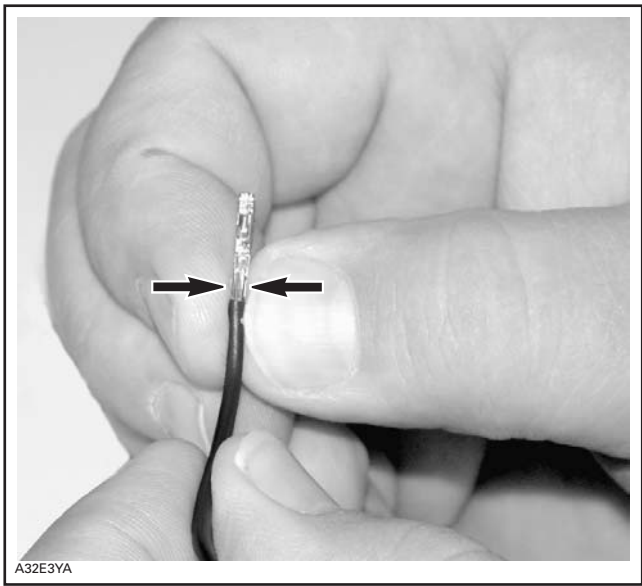


TYPICAL

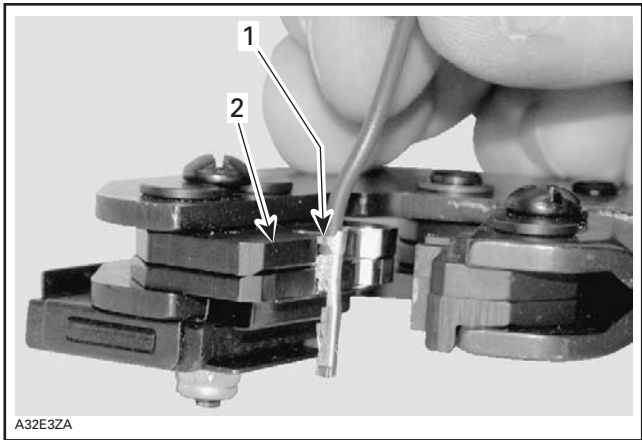
A. 3 mm (1/8 in) maximum

Position wire in terminal.

Squeeze the terminal tabs with your fingers to temporarily retain terminal in place.



Insert terminal with wire in crimping pliers and position it so the top of the terminal tabs are flush with the pliers edge, or a little bit lower as shown.



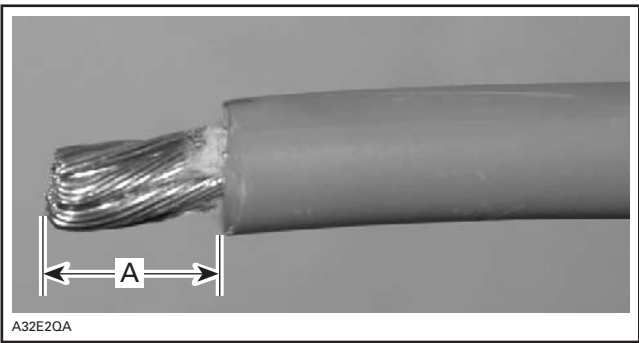
- 1. Top of terminal tabs
- 2. Align tabs with pliers edge

Crimp terminal. Ensure all wire strands are in the terminal. If not, the loose strands may cause strange problems in the electrical system.

BATTERY CABLE TERMINAL

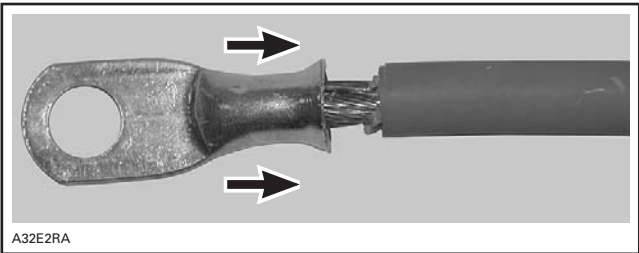
Terminal Installation

Carefully strip the wire approximately to 10 mm (1/2 in) in length using a wire stripping tool or sharp blade/knife.



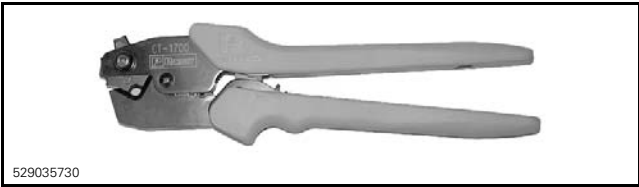
A. 10 mm (1/2 in)

NOTE: Make sure not to cut wire strands while stripping the wire.
Install the appropriate terminal on the wire according to the requirement. Refer to appropriate *PARTS CATALOG*.

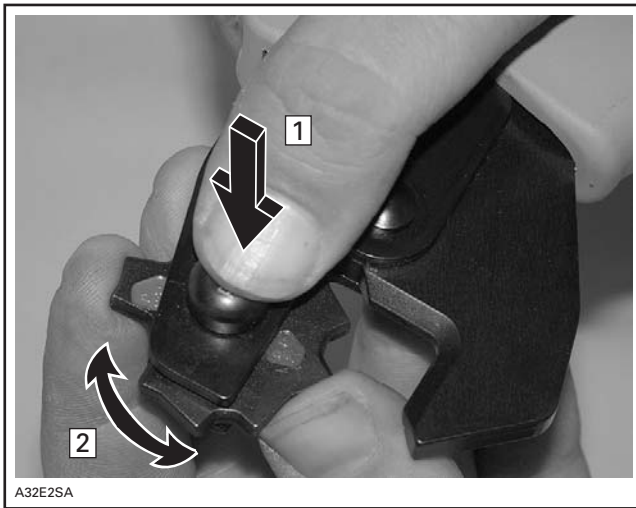


INSTALLATION OF TERMINAL

Follow the instructions provided with the CRIMPING TOOL (HEAVY GAUGE WIRE) (P/N 529 035 730) to select the proper position of the tool.



NOTE: Different wires require different crimp plier settings. Make sure to follow the instructions supplied with the tool.



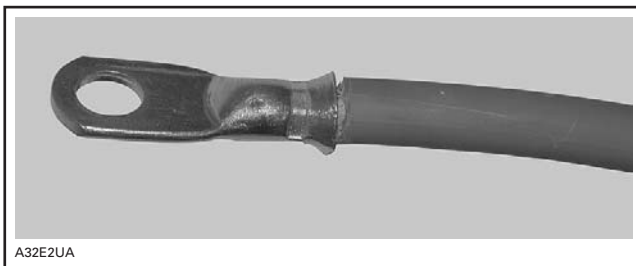
POSITIONING THE CRIMP PLIERS

Step 1: Press
Step 2: Rotate

After positioning the crimp pliers, crimp the terminal already installed on wire.



CRIMPING OF WIRE



PROPERLY CRIMPED WIRE

To verify if the wire is properly crimped, simultaneously pull on the wire and on the terminal in opposite directions using moderate force.

NOTICE Never solder the wire to the terminal. Soldering can change the property of the wire and it can become brittle and break.

Install the protective heat shrink rubber tube on the terminal. Heat the heat shrink rubber tube using the heat gun so that it grasps the wire and the terminal.

NOTICE Make sure that the protective heat shrink rubber tube has been properly installed and no part of wire is exposed.