

SERVICE BULLETIN

WIRE TERMINAL SUPPLIES

NEW

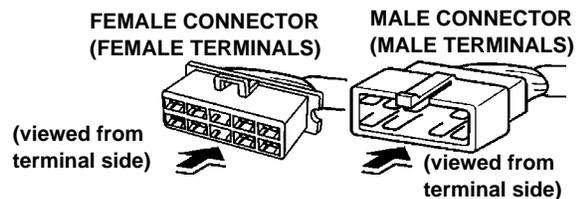
REVISION SUMMARY

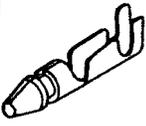
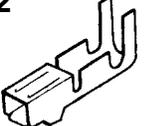
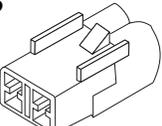
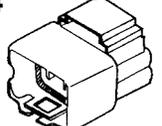
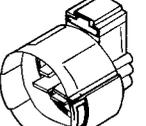
- Female terminal #25 had the wrong part number
- Connector 3 showed wrong picture and misidentified
- Items 4, 6, 9, 10, 12, and 15 incorrectly identified
- Added label printing instructions

Terminal Service Kit A, T/N 07VPZ-001000A, has been discontinued and is no longer available through the Parts System. The individual wire terminal supplies and tools shown below are available from the Parts Division. Order through normal parts ordering procedures using the part numbers below. Refer to the PARTS>Parts Information>Parts Information (or Parts Availability) on the iN for pricing information. The terminal pin storage box (#8 on page 2) is designed to store individual connectors, terminals, and tools.

The gender of the connector is determined by the type of terminals the connector contains. Male connectors have male terminals. Female connectors have female terminals.

Both the male and female connectors are shown by viewing them from the terminal side.

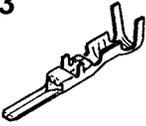
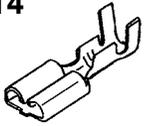
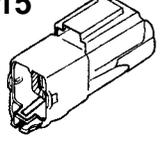
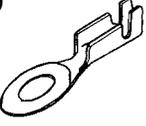
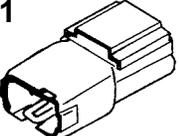
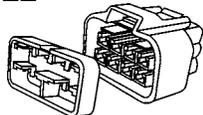
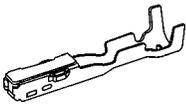
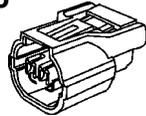
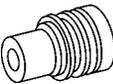


| | | | | | |
|--|--|---|---|---|--|
| <p>07VPZ-001010A 1</p>  <p>Male Terminal Use with: 8, 24</p> | <p>07VPZ-001030A 2</p>  <p>Female Terminal Use with: 5, 17, 22</p> | <p>07VPZ-002010A 3</p>  <p>2-Pin connector (female) (replacement for blue, red, green connector) Use with: 5, 7, 23</p> | <p>07VPZ-002050A 4</p>  <p>6-Pin Connector (male) Use with: 5, 13, 23</p> | <p>07JAZ-001100A 5</p>  <p>Seal (14 ~ 20 gauge wire) Use with: 3, 4, 6, 9, 10, 12, 13, 15, 16, 21</p> | <p>07VPZ-002100A 6</p>  <p>14-Pin Connector (male) (replacement for green connector) Use with: 5, 13, 23</p> |
| <p>07JAZ-001090A 7</p>  <p>Female Terminal Use with: 3, 5, 9, 12, 16</p> | <p>07VPZ-001040A 8</p>  <p>Female Terminal Use with: 1, 18</p> | <p>07VPZ-002020A 9</p>  <p>4-Pin Connector (female) Use with: 5, 7, 23</p> | <p>07VPZ-002060A 10</p>  <p>3-Pin Male Connector (replacement for green connector) Use with: 5, 13, 23</p> | <p>07VPZ-003010A 11</p>  <p>Seal Use with: 22</p> | <p>07VPZ-002090A 12</p>  <p>14-Pin Female Connector (replacement for green connector) Use with: 5, 7, 23</p> |

NEW

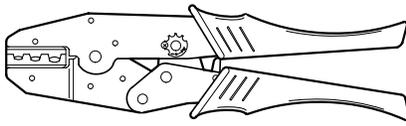
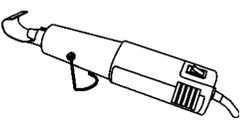
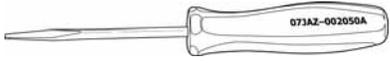
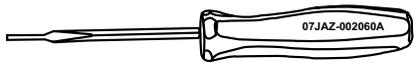
CONSUMER INFORMATION: The information in this service bulletin is intended for use only by skilled technicians who have the proper tools, equipment, and training to correctly and safely service and repair your Honda outboard motor. These procedures should not be attempted by "do-it-yourselfers," and you should not assume that this bulletin applies to your equipment, or that your outboard motor has the condition described. To determine whether this information applies, contact an authorized Honda Marine dealer.

NEW

| | | | | | |
|---|---|--|--|---|---|
| <p>07JAZ-001080A 13</p>  <p>Male Terminal Use with: 4, 5, 6, 10, 15, 21</p> | <p>07VPZ-001050A 14</p>  <p>Female Terminal</p> | <p>07VPZ-002030A 15</p>  <p>4-Pin Male Connector Use with: 5, 13, 23</p> | <p>07VPZ-002070A 16</p>  <p>6-Pin Female Connector Use with: 5, 7, 23</p> | <p>07VPZ-003020A 17</p>  <p>Seal Use with: 2, 22</p> | <p>32826-SA5-300 18</p>  <p>Female Boot Use with: 8</p> |
| <p>07VPZ-001020A 19</p>  <p>Terminal (6 mm post)</p> | <p>07VPZ-001060A 20</p>  <p>Terminal (5 mm post)</p> | <p>07VPZ-002040A 21</p>  <p>2-Pin Male Connector Use with: 5, 13, 23</p> | <p>07VPZ-002080A 22</p>  <p>8-Pin Female Connector Use with: 2, 11, 17</p> | <p>07VPZ-003030A 23</p>  <p>Seal Use with: 3, 6, 9, 10, 12, 15, 16, 21</p> | <p>32825-SA5-300 24</p>  <p>Male Boot Use with: 1</p> |
| <p>070PZ-002A400 25</p>  <p>Female Terminal Use with: 26, 27</p> | <p>070PZ-002A200 26</p>  <p>2-Pin Connector (female) Use with: 25, 27</p> | <p>070PZ-002A300 27</p>  <p>Seal Use with: 25, 26</p> | <p>04323-SP0-A01 28</p>  <p>Splice, 20 - 22 AWG (yellow) Use small crimper die</p> | <p>04323-SP0-A11 29</p>  <p>Splice, 15 - 19 AWG (pink) Use medium crimper die</p> | <p>04323-SP0-A21 30</p>  <p>Splice, 14 AWG (blue) Use large crimper die</p> |

If the replacement terminal quantities are low, reorder them by using the terminal part number listed on the inside lid of the terminal pin kit. Replacement terminals are available through the Parts Division using normal parts ordering procedures.

TERMINAL REPAIR TOOLS AND EQUIPMENT

| | | | |
|---|--|---|--|
| <p>07NGZ-001010A 1</p>  <p>Crimper Tool</p> | <p>07XMJ-001000A 2</p>  <p>Terminal Inspection Tool</p> | <p>07NGZ-001020A 3</p>  <p>Heat Gun (with shield)</p> | <p>4019-2317 4</p>  <p>Rodent Deterrent Tape</p> |
| <p>07JAZ-001020A 5</p>  <p>Terminal Pin Crimper</p> | <p>07JAZ-002050A 6</p>  <p>Terminal Pin Tool E</p> | | |
| <p>07JAZ-002060A 7</p>  <p>Terminal Pin Tool F</p> | <p>07AGG-001A000 † 8</p>  <p>Terminal Pin Storage Box (2 required)</p> | <p>† Labels for the terminal pin storage box can be printed to identify the connectors stored in the box. Use Avery Label #6871 and either print from the PDF file or copy the pages attached to this bulletin. Do not select "shrink to fit" in the printer dialog box. The PDF must be printed full size to align with the label paper.</p> | |

NEW

PARTS INFORMATION

| Ref | Description | Qty* | Part Number | Use With | Application |
|-----|------------------------------|------|---------------|------------------------------------|-------------|
| 1 | Male Terminal | 25 | 07VPZ-001010A | 8, 24 | |
| 2 | Female Terminal | 25 | 07VPZ-001030A | 5, 17, 22 | |
| 3 | Female 2-Pin Connector | 1 | 07VPZ-002010A | 5, 7, 23 | |
| 4 | 6-Pin Connector (male) | 1 | 07VPZ-002050A | 5, 13, 23 | |
| 5 | Seal | 25 | 07JAZ-001100A | 3, 4, 6, 9, 10, 12, 13, 15, 16, 21 | |
| 6 | 14-Pin Connector (male) | 1 | 07VPZ-002100A | 5, 13, 23 | |
| 7 | Female Terminal | 25 | 07JAZ-001090A | 3, 5, 9, 12, 16 | NMEA* |
| 8 | Female Terminal | 25 | 07VPZ-001040A | 1, 18 | |
| 9 | 6-Pin Connector (female) | 1 | 07VPZ-002020A | 5, 7, 23 | |
| 10 | 3-Pin Connector (male) | 1 | 07VPZ-002060A | 5, 13, 23 | |
| 11 | Seal | 25 | 07VPZ-003010A | 22 | |
| 12 | 14-Pin Female Connector | 1 | 07VPZ-002090A | 5, 7, 23 | |
| 13 | Male Terminal | 25 | 07JAZ-001080A | 4, 5, 6, 10, 15, 21 | |
| 14 | Female Terminal | 25 | 07VPZ-001050A | | |
| 15 | 4-Pin Male Connector | 1 | 07VPZ-002070A | 5, 13, 23 | |
| 16 | 6-Pin Female Connector | 10 | 07692-0011200 | 5, 7, 23 | |
| 17 | Seal | 25 | 07VPZ-003020A | 2, 22 | NMEA* |
| 18 | Female Boot | 25 | 32826-SA5-300 | 8 | |
| 19 | Terminal | 25 | 07VPZ-001020A | – | |
| 20 | Terminal | 25 | 07VPZ-001060A | – | |
| 21 | 2-Pin Male Connector | 1 | 07VPZ-002040A | 5, 13, 23 | |
| 22 | 8-Pin Female Connector | 1 | 07VPZ-002080A | 2, 11, 17 | |
| 23 | Seal | 25 | 07VPZ-003030A | 3, 6, 9, 10, 12, 15, 16, 21 | |
| 24 | Male Boot | 25 | 32825-SA5-300 | 1 | |
| 25 | Terminal Pin (female) | 25 | 070PZ-002A400 | 26, 27 | BF225 |
| 26 | 2-Pin Connector (female) | 25 | 070PZ-002A200 | 25, 27 | BF225 |
| 27 | Seal | 25 | 070PZ-002A300 | 25, 26 | BF225 |
| 28 | Splice, 20 - 22 AWG (yellow) | 25 | 04323-SP0-A01 | Use small crimper die | |
| 29 | Splice, 15 - 19 AWG (pink) | 25 | 04323-SP0-A11 | Use medium crimper die | |
| 30 | Splice, 14 AWG (blue) | 25 | 04323-SP0-A21 | Use large crimper die | |

NEW

TERMINAL REPAIR TOOLS AND EQUIPMENT

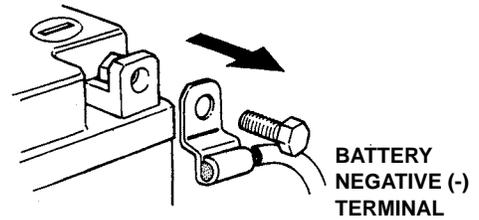
| Ref | Description | Qty* | Part Number | Use With | Application |
|-----|--------------------------|------|---------------|------------|-------------|
| 1 | Crimper Tool | 1 | 07NGZ-001010A | 30, 31, 32 | |
| 2 | Terminal Inspection Tool | 1 | 07XMJ-001000A | – | |
| 3 | Heat Gun (with shield) | 1 | 07NGZ-001020A | 30, 31, 32 | |
| 4 | Rodent Deterrent Tape | 1 | 4019-2317 | – | |
| 5 | Terminal Pin Crimper | 1 | 07JAZ-001020A | – | |
| 6 | Terminal Pin Tool E | 1 | 07JAZ-002050A | – | |
| 8 | Terminal Pin Storage Box | 2 | 07AGG-001A000 | – | |
| 1 | Crimper Tool | 1 | 07NGZ-001010A | 30, 31, 32 | |

* The quantity (Qty) listed in the table above is the number of pieces included in the part number.

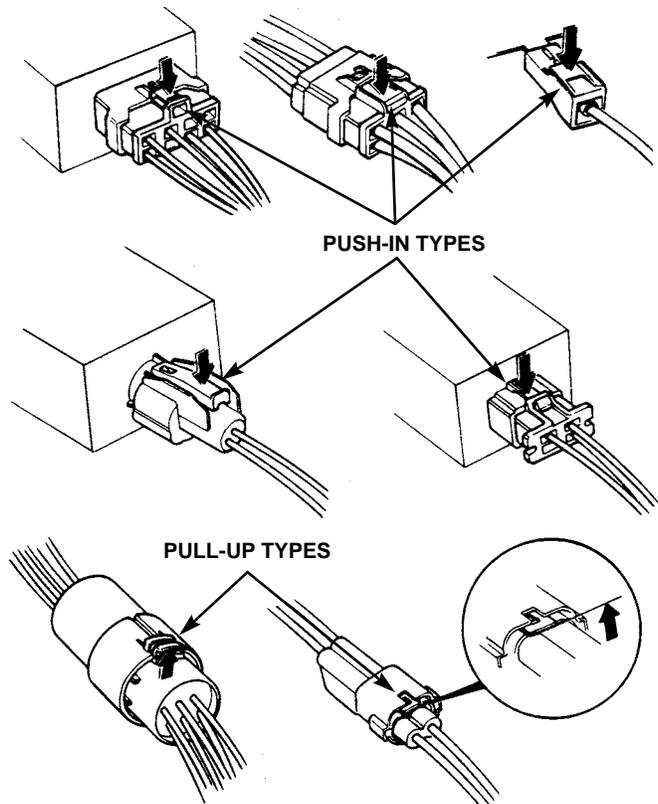
NMEA* – These parts are needed to make an adapter cable for connecting an NMEA-certified Honda outboard to an NMEA 2000® network.

PROCEDURAL PRECAUTIONS

1. Before beginning any work, be sure to disconnect the negative (-) battery terminal first.

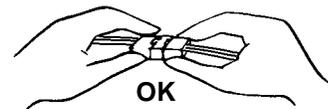


2. Determine whether the connector is a push-in or pull-up type. Disconnect the locking couplers carefully.



3. Hold the coupler bodies, not the wires, and pull apart evenly.

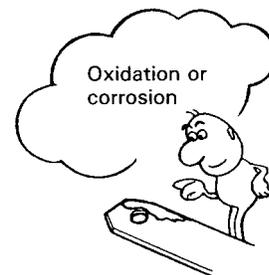
Do not pull on wire harnesses.



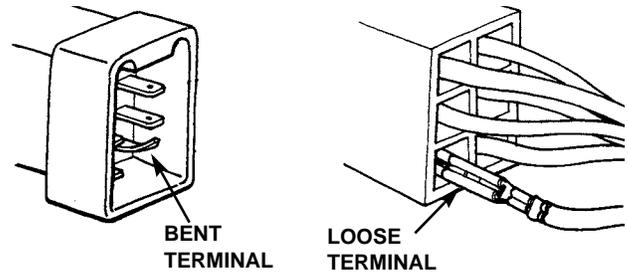
4. Inspect terminals for corrosion. Clean or replace terminals as necessary.

Carefully inspect all terminals of mating wire harnesses and electrical components for corrosion. Clean or replace as necessary.

If widespread corrosion is discovered, it may be easier to replace the wire harness.



5. Before reconnecting couplers, check them carefully to make sure that their terminals are not bent or disconnected.
6. Reconnect the connectors, making sure the locks are completely and securely fastened.



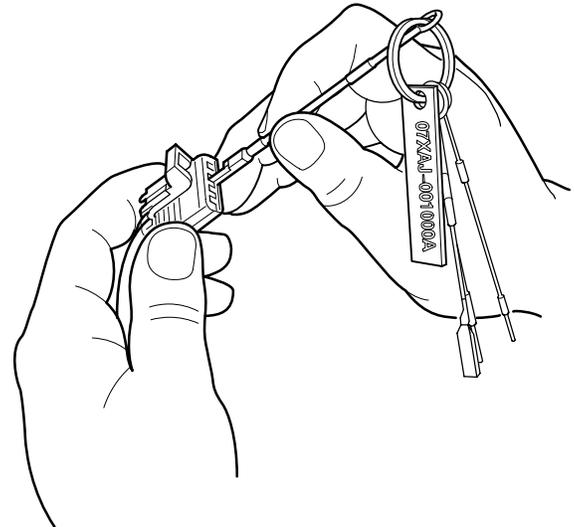
CHECKING FOR POORLY FITTING TERMINALS

Loose terminal fit can cause intermittent problems in electrical circuits. By using the Terminal Inspection Feeler Tool Set T/N 07XMJ-001000A, you can inspect the terminal fit between the two matching connectors without removing the terminals from the connector body.

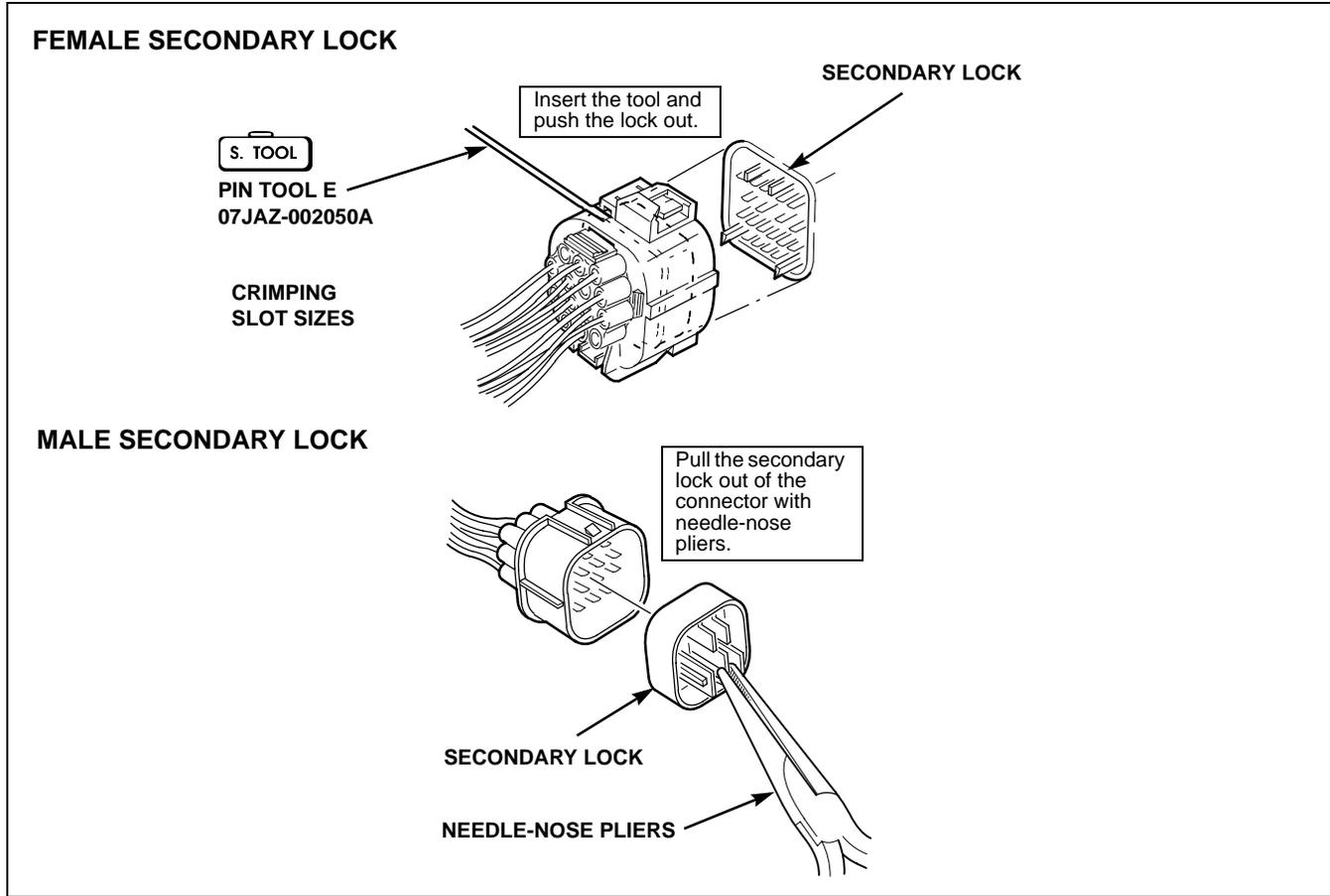
1. Find the terminal tool that best matches the male terminal in the mating connector.
2. Insert the terminal tool into the female terminal, and then remove the terminal tool.

Make sure you do not select a terminal tool that is larger than the mating male terminal because it will spread the female terminal and cause a loose fit.

3. Compare the drag to the other terminals in the connector. If the drag is less, replace the terminal with the appropriate replacement terminal from the terminal pin kit.

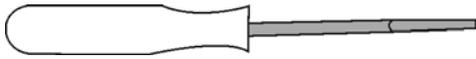
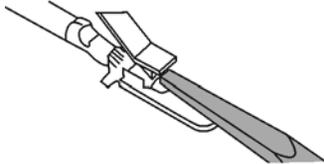
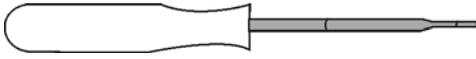
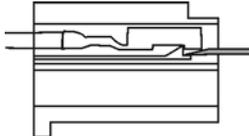


SECONDARY LOCK REMOVAL



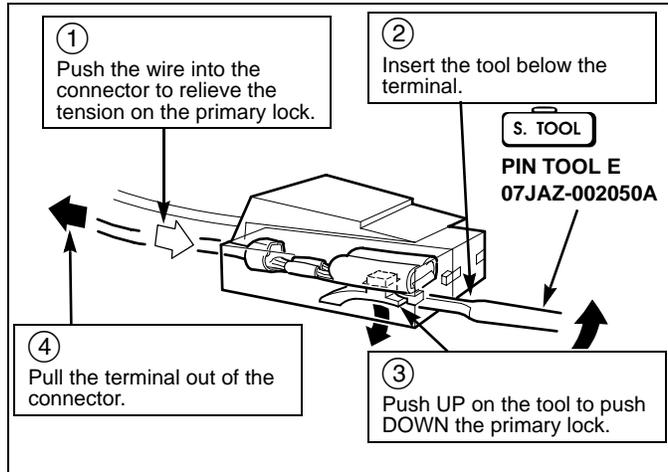
TERMINAL REMOVAL

Use the appropriate pin tool to remove terminals from connectors. See page 7 for more examples.

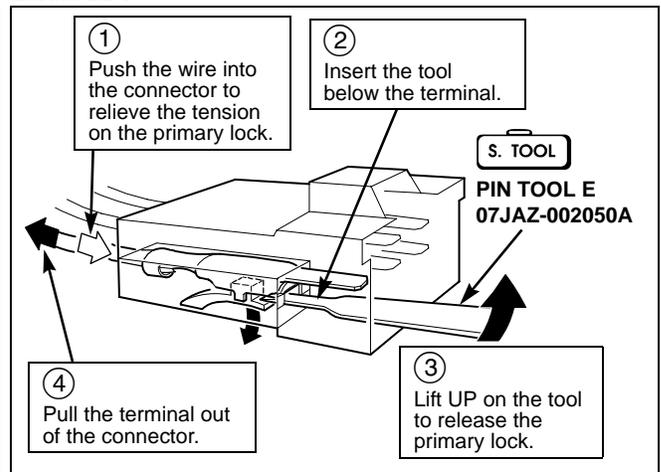
| PIN TOOL | TERMINAL TYPE | EXAMPLE |
|--|--|---|
| Terminal Pin Tool E  | Large Terminals  |  |
| Terminal Pin Tool F  | Small Terminals  |  |

Terminal Removal Examples

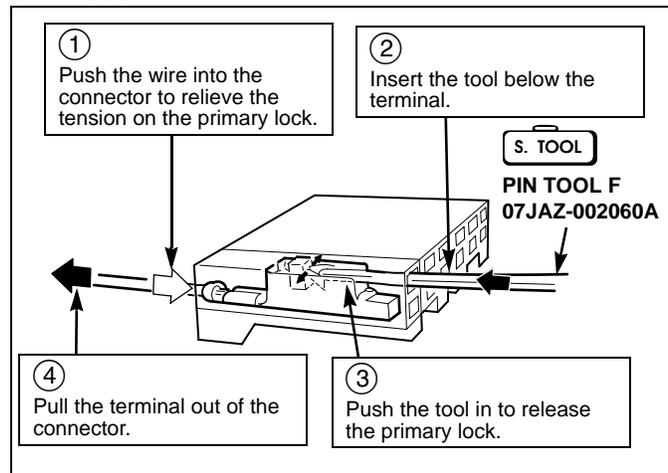
EXAMPLE 1



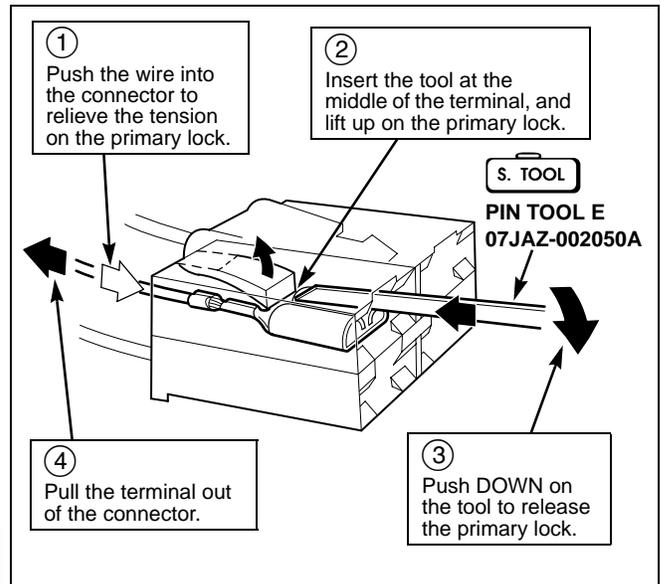
EXAMPLE 4



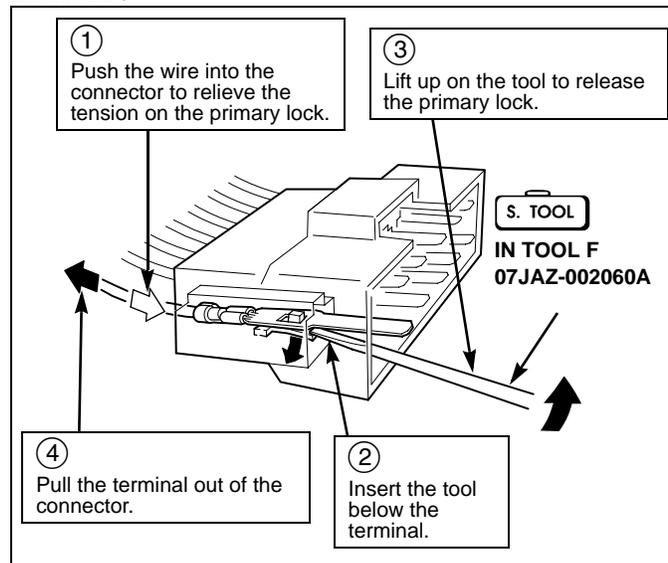
EXAMPLE 2



EXAMPLE 5

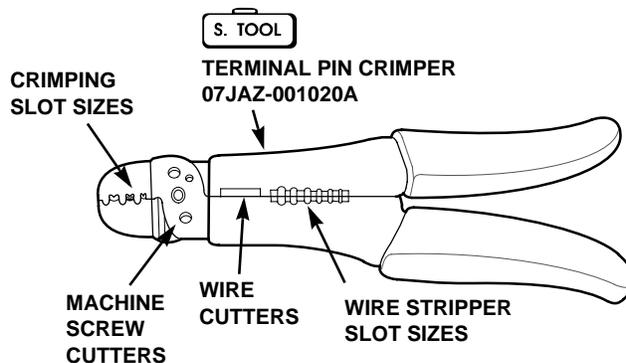


EXAMPLE 3

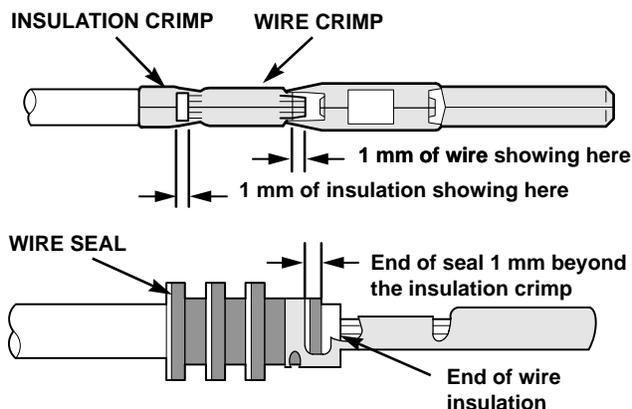


INSTALLING NEW TERMINALS

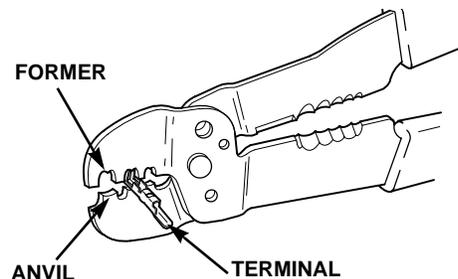
1. Carefully match the old terminal with a new one from the terminal repair kit. Choose the correct replacement terminal based on the wire size range the terminal will accommodate.
2. Depending on the size of the wire you are repairing, use the proper wire stripper and crimping slot in the crimping tool.



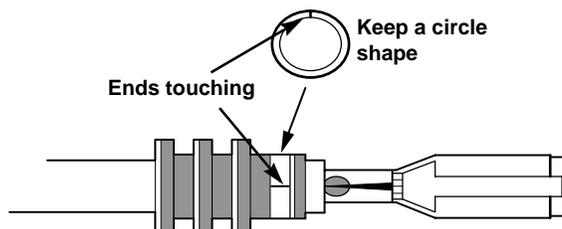
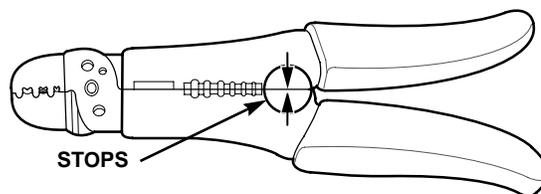
3. Strip the insulation off the end of the wire so the wire fits in the new terminal as shown. If the wire has a wire seal, replace it with a new one.
After stripping the end of the wire, make sure you did not cut any wire strands. If you did, cut the wire off even with the insulation, and strip it again.



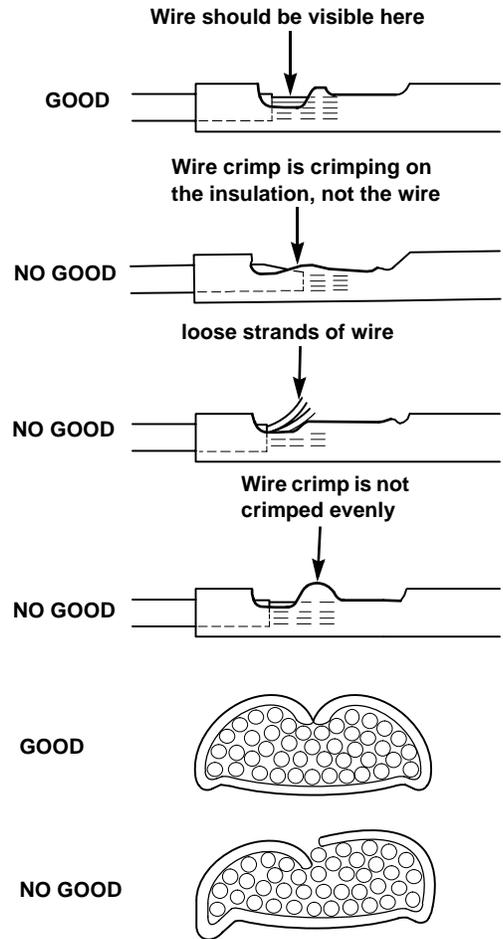
4. Position the terminal in the crimping tool slot with the solid portion of the terminal toward the anvil and the open section toward the former.
5. Insert the wire in the terminal to the position shown in step 3.



6. Squeeze the tool with both hands until the stops make contact.
7. Crimp the insulation crimp.
 - If you do not have a wire seal, then use the next larger size crimp slot. Position the crimping tool over the insulation crimp section of the terminal, then squeeze the tool with both hands until the stops make contact.
 - If you have a wire seal, position the insulation crimp in the 5.5 crimping slot, then carefully squeeze the crimp closed until its ends are touching and making a full-circle shape.



8. Inspect the quality of the wire crimp. If it has any of the following NO GOOD crimps, cut it off and start over.
9. Insert the terminal into the connector. Make sure the wire seals are pushed all the way into the connector. Lightly pull on the wires to make sure the terminal is locked into place.
10. Close or insert the secondary terminal lock, if applicable, and reconnect the connector.

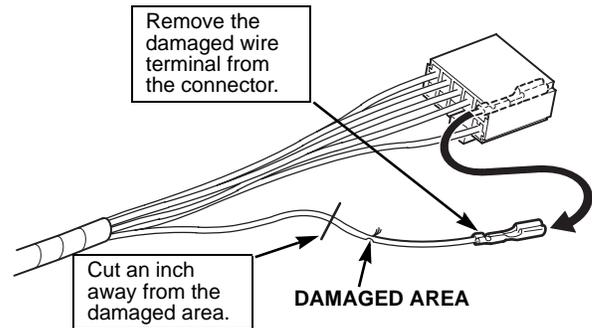


REPAIRING A DAMAGED WIRE

This procedure describes how to repair a damaged wire. There may be circumstances where the repair would leave the wire too short and make the repair more likely to be strained and fail. It may be necessary to remove the damaged wire terminal from its connector, add a length of the same gauge wire to a new terminal, and splice it back in.

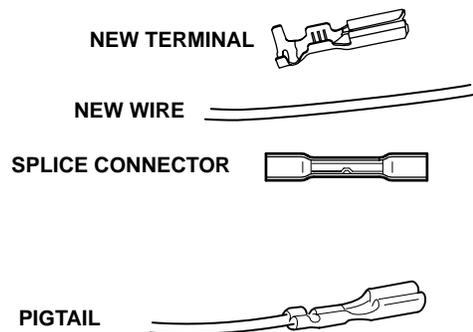
Use the splice connectors shown below. These splice connectors offer sealant that help protect the repaired wire from corrosion.

1. Remove the damaged or faulty wire's terminal from the connector using the proper removal tool (page 4).
2. Cut off the wire about an inch back from the damaged or faulty area in the wire.



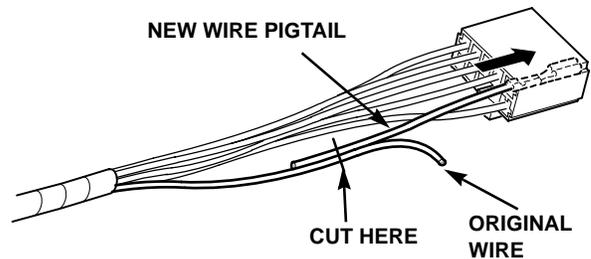
3. Select a terminal and gauge wire that match the original wire and terminal (same kind of terminal and same diameter bare wire).
4. Select the smallest splice connector (yellow, pink, or blue) that will fit onto the stripped end of the original wire.

| DESCRIPTION | PART NUMBER | Qty |
|------------------------------|---------------|-----|
| Splice, 20 - 22 AWG (Yellow) | 04323-SP0-A01 | 25 |
| Splice, 15 - 19 AWG (Pink) | 04323-SP0-A11 | 25 |
| Splice, 14 AWG (Blue) | 04323-SP0-A21 | 25 |



5. Crimp the new terminal on the new piece of wire (page 8), creating a pigtail.
6. Insert the new wire terminal into the connector cavity; push it in until it locks in place.
7. Lay the new wire and the original wire side-by-side, and cut off both ends at once.

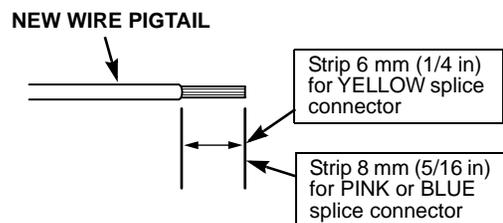
If you are making more than one splice, do not cut each pigtail at the same location; the resulting "lump" of splice connectors will interfere with rewrapping the harness. Instead, cut the first pigtail close enough to the terminal so you will have room to make each remaining cut about 20 mm (3/4 inch) farther down on the next pigtail.



8. If you are using a yellow splice connector, strip about 6 mm (1/4 inch) of insulation off the ends of both wires. If you are using a pink or blue splice connector, strip off about 8 mm (5/16 inch) of insulation.

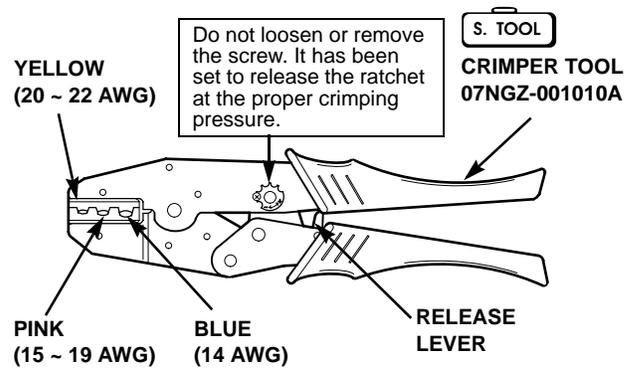
If you are not sure of the wire size, start with a large enough hole on the stripper that will not nick or cut off any strands of wires.

If you nick or cut off any strands of wire, try again with the next larger size hole on the stripper.

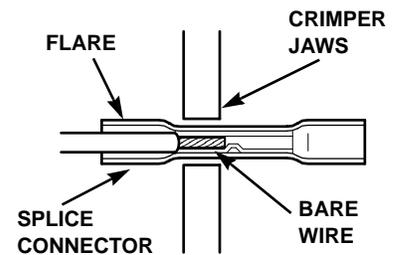


9. Put the splice connector in the proper size slot in the Crimper Tool, T/N 07NGZ-001010A, slide it to one end (where the flare begins), and close the crimper handles far enough to hold it in place.

To release the ratchet mechanism at any point after the first click, squeeze the handles slightly and push the release lever, and then let the handles open.

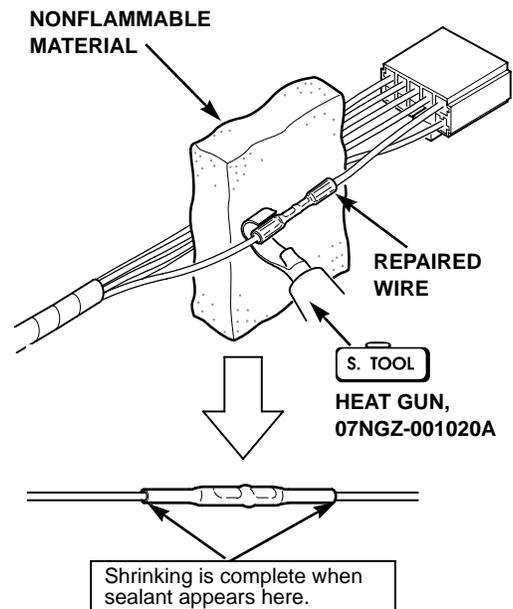


10. Insert one of the bare wires into the splice connector end that is in the crimper jaws. Push the wire all the way into the splice connector, and squeeze the crimper handles. Keep squeezing until the jaws touch, and hold it at that position until the ratchet clicks again.
11. Crimp the other wire in the same way into the other end of the splice connector.
12. After crimping, pull on the wires in opposite directions to make sure they are secure in the connector.



13. Separate the other wires in the harness from the repaired wire(s), and shield them with nonflammable material.
14. Plug in the heat gun, and turn it on. Start at the middle of the splice connector, and move the gun toward the ends as the tube shrinks. Apply heat evenly by rotating the curved heat spreader around the splice connector. Shrinking is complete when a small amount of sealant appears at each end of the tube.

Be careful when working with the high heat produced by the heat gun.

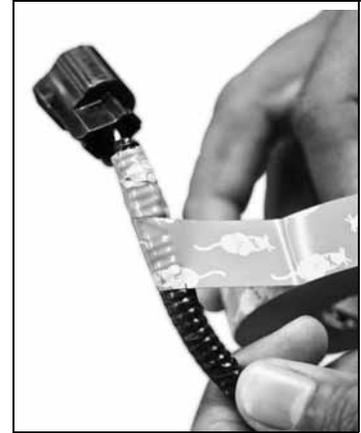


RODENT-DETERRENT TAPE

Honda Marine has a new rodent-deterrent tape available: P/N 4019-2317.

If you're repairing or replacing a harness that has been eaten by rodents, wrap rodent deterrent tape around the area when you're done to help reduce any future problems.

When wrapping the harness, use a method referred to as the half-wrapping method. This is where each time you wrap the tape around the harness, overlap the previous layer by half the width of the tape.



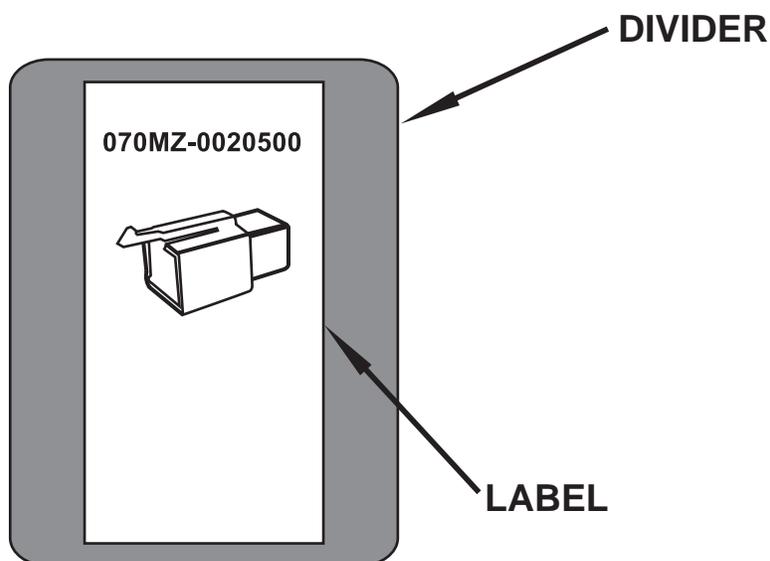
STORAGE BOX DIVIDER LABELS

Use the supplied labels to identify the wire terminal parts in the storage box. Arrange the parts in the storage box to accommodate your needs.

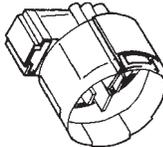
Remove the plastic dividers and apply the labels as shown below.

Labels are provided for all the individual wire terminal pieces.

Labels for the terminal pin storage box can be printed to identify the connectors stored in the box. Use Avery Label #6871 and either print from the PDF file or copy the pages attached to this bulletin. Do not select "shrink to fit" in the printer dialog box. The PDF must be printed full size to align with the label paper.

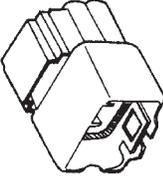


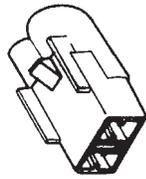
HONDA
MARINE

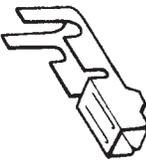
6
07VPZ-002100A

Use with: 5, 13, 23

5
07JAZ-001100A

Use with: 3, 4, 6, 9, 10, 12, 13, 15, 16, 21

4
07VPZ-002050A

Use with: 5, 13, 23

3
07VPZ-002010A

Use with: 5, 7, 23

2
07VPZ-001030A

Use with: 5, 17, 22

1
07VPZ-0010100

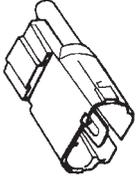
Use with: 8, 24

12
07VPZ-002090A

Use with: 5, 7, 23

11
07VPZ-003010A

Use with: 22

10
07VPZ-002060A

Use with: 5, 13, 23

9
07VPZ-002020A

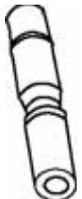
Use with: 5, 7, 23

8
07VPZ-001040A

Use with: 1, 18

7
07JAZ-001090A

Use with: 3, 5, 9, 12, 16

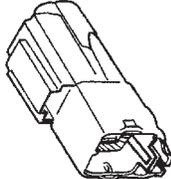
18
32826-SA5-300

Use with: 8

17
07VPZ-003020A

Use with: 2, 22

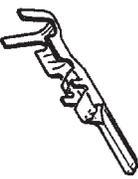
16
07VPZ-002070A

Use with: 5, 7, 23

15
07VPZ-002030A

Use with: 5, 13, 23

14
07VPZ-001050A

Use with: 4, 5, 6, 10, 15, 21

13
07JAZ-001080A

Use with: 4, 5, 6, 10, 15, 21

19

07VPZ-001020A



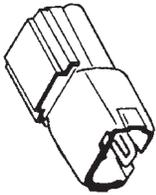
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07VPZ-001060A



21

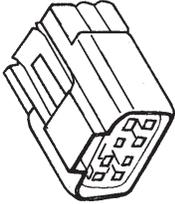
07VPZ-002040A



Use with: 5, 13, 23

22

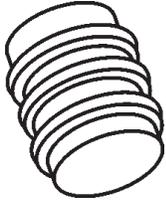
07VPZ-002080A



Use with: 2, 11, 17

23

07VPZ-003030A



Use with: 3, 6, 9, 10, 12, 15, 16, 21

24

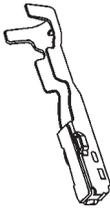
32825-SA5-300



Use with: 1

25

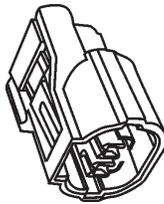
070PZ-002A400



Use with: 26, 27

20

070PZ-002A200



Use with: 25, 27

27

070PZ-002A300



Use with: 25, 26

28

04323-SP0-A01



29

04323-SP0-A11

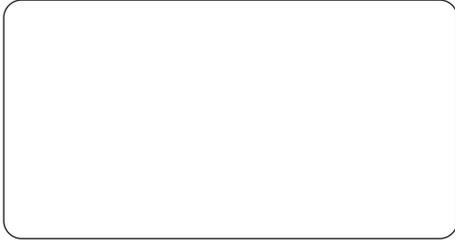


30

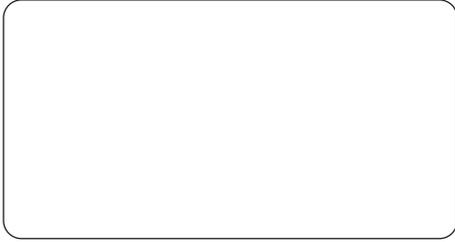
04323-SP0-A21



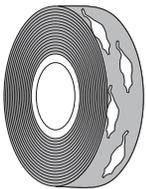
6
07JAZ-002050A

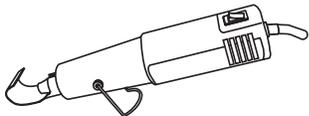
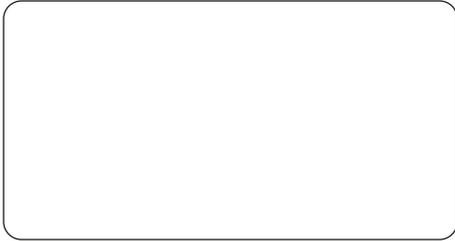
5
07JAZ-001020A

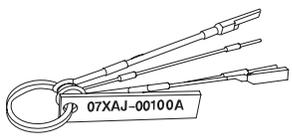
4
4019-2317



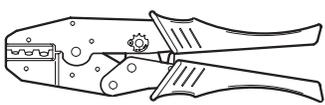

3
07NGZ-001020A

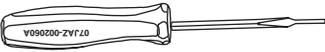
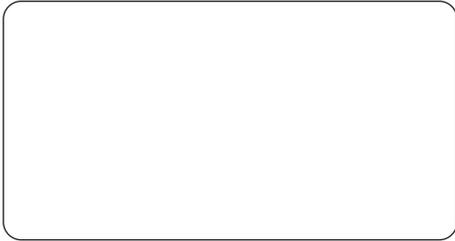
2
07XMJ-001000A




1
07NGZ-001010A



7
07JAZ-002060A

NOTES

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HONDA

MARINE