an ISO 9001:2008 Registered Company

Mechman 170-Amp

Alternator Cable Kit (220013)

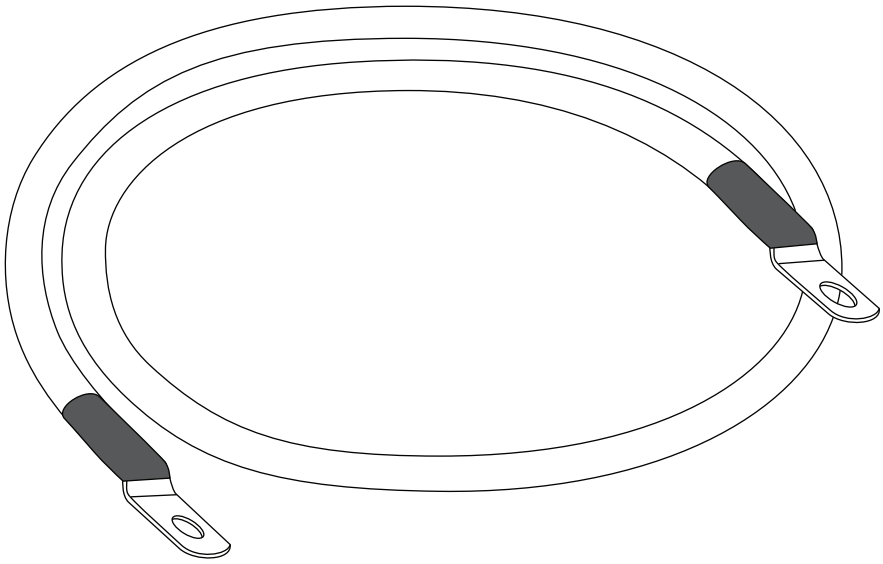

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Table of Contents

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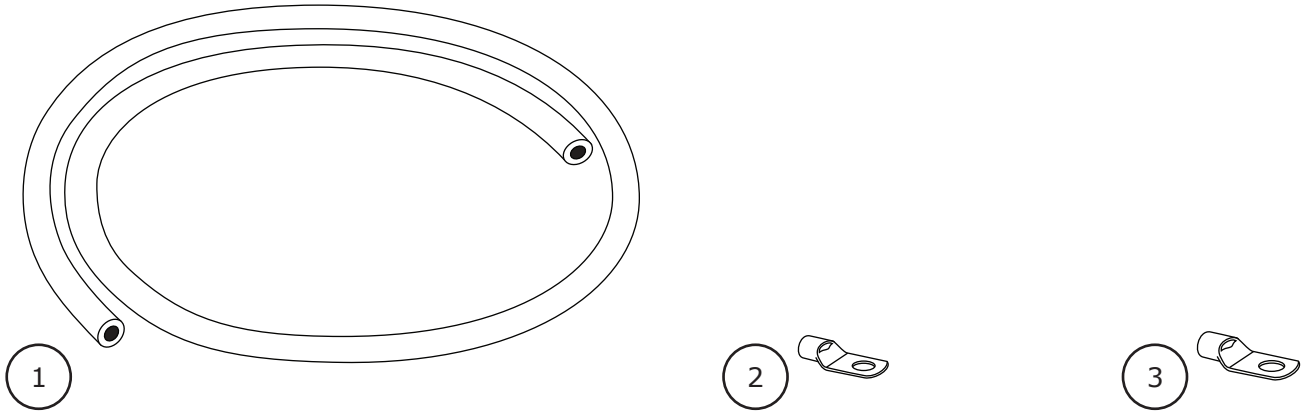
Packing List: Alternator Cable Kit, Mechman 170-Amp (220013)

No.	Qty.	Part No.	Description
1.	6′	220010	Cable, 4 AWG
2.	1	220011	Compression Lug, 5/16” ID, 4 AWG
3.	1	220012	Compression Lug, 3/8” ID, 4 AWG
4.	3”	220028	Heat Shrink Tubing
5.	1	423000	Crimping Die
6.	1	220009	Cable Boot

**** Before beginning installation, open all packages and check contents of shipment. Please report any shortages directly to Vintage Air within 15 days. After 15 days, Vintage Air will not be responsible for missing or damaged items.**



NOTE: Images may not depict actual parts and quantities. Refer to packing list for actual parts and quantities.

Important Information—Please Read

Critical Grounding Information:

The compressor and alternator are grounded first via their respective mounting brackets, then to the engine block, and finally to the vehicle chassis. Inspect all mating surfaces to ensure a clean, metallic surface. This may require the removal of paint, corrosion or anodizing from several locations in order to complete the grounding path. In addition, the supplied 4 AWG cable or equivalent must be used to both ensure proper charging and prevent damage and/or fire.

After installation, it will be necessary to confirm the quality of the ground and power paths by measuring voltage drop between the electrical component and the battery terminals while operating the alternator at or near its rated load (Refer to the diagram provided with the alternator installation instructions).

Avoid Potential Electrical Shorts:

A. Use special care when routing the power cable. Limit areas exposed to heat or where damage to sheathing may occur.

B. Keep conductive, grounded objects away from the alternator power post at all times.

Limit Power Cable Movement:

Secure the cable within the engine bay. Use of clamps is highly recommended.

Crimping Die:

The crimping die supplied with this kit is specific to the supplied compression lug. Other types of lugs or terminals may become damaged if used with the supplied crimping die.

Required Tools:

A. Calipers or measuring tape.

B. Cutting pliers.

C. Box cutter.

D. Bench vise.

E. Heat gun, butane torch, or other suitable means to melt heat shrink tubing.

Power Cable Assembly

Perform the Following:

1. Disconnect battery.

2. Determine the desired routing and length of the 4 AWG power cable.

3. Cut the power cable to the appropriate length (See Photo 1, below).

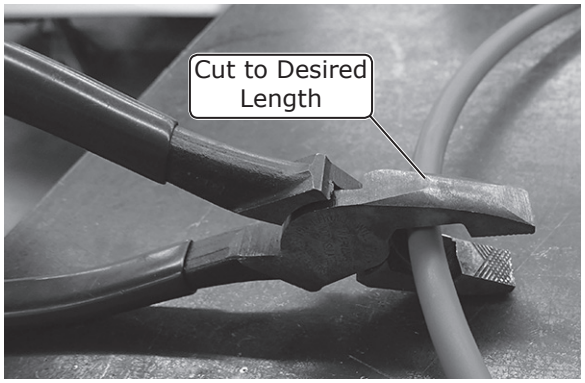


Photo 1

Power Cable Assembly (Cont.)

4. Remove the cable sheathing .500” from the cut end (See Photos 2, 3 & 4, below).

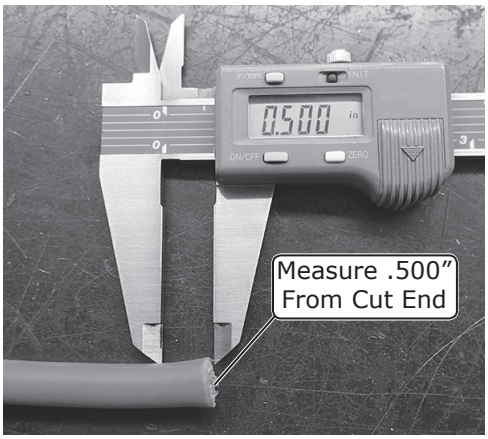


Photo 2

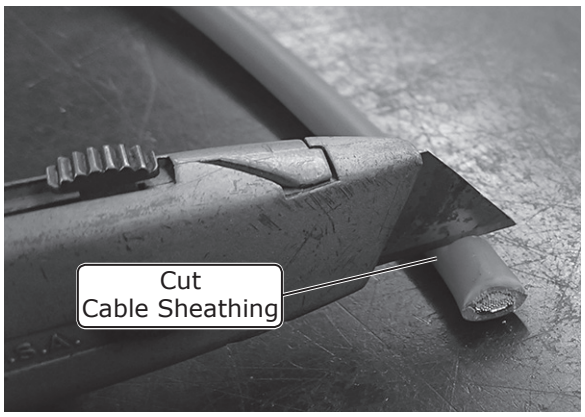


Photo 3

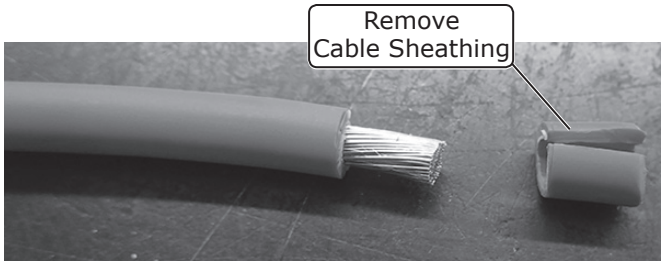


Photo 4

5. Remove the clear barrier film from the copper strands (See Photo 5, below).

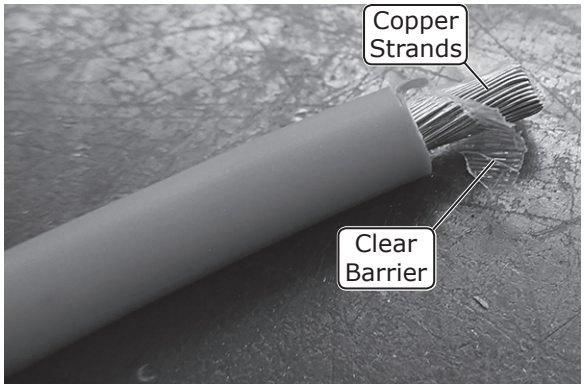


Photo 5

6. Insert the exposed copper end of the power cable into the 5/16” ID compression lug as shown in Photo 6, below. **NOTE: The copper strands should be visible through the inspection window (See Photo 7, below).**

Photo 6

Photo 7

Power Cable Assembly (Cont.)

7. Locate and install the crimping die into a bench vise as shown in Photo 8, below.

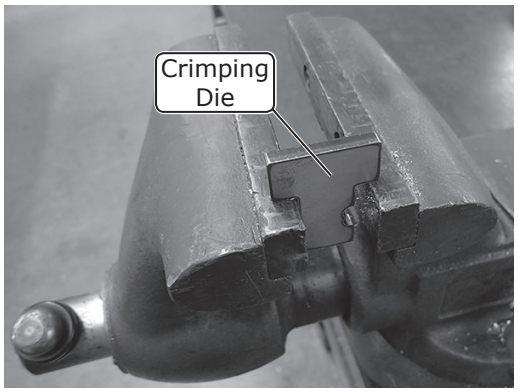


Photo 8

8. Insert the compression lug and cable into the crimping die as shown in Photo 9, below. **NOTE: Orient the compression lug relative to the crimping die as shown in Photo 10, below.**

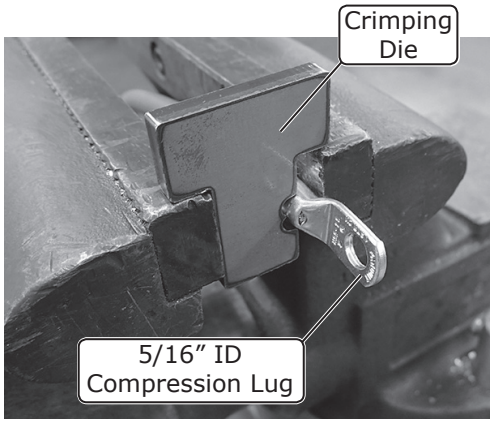


Photo 9

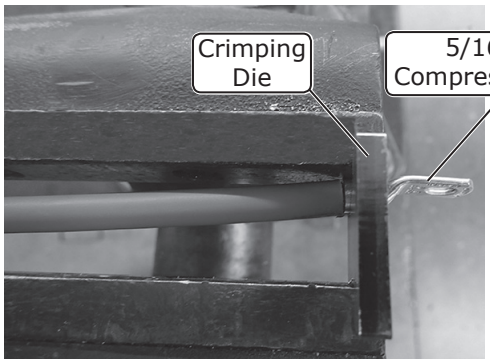


Photo 10

9. With the exposed copper end of the power cable fully engaged into the compression lug, carefully compress the bench vise to form the cable crimp. Compress the die fully over the compression lug (See Photo 11, below).

10. Remove the crimped cable and crimping die from the bench vise.

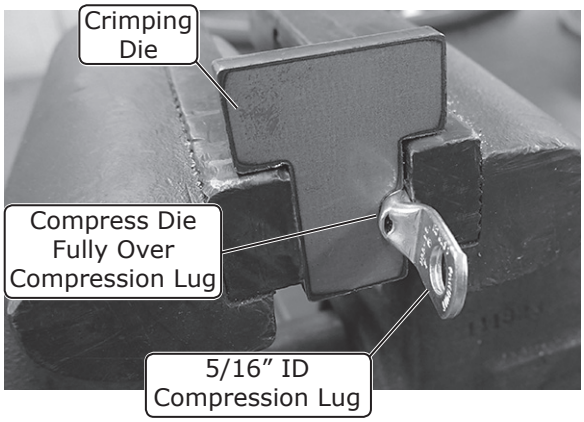


Photo 11

Power Cable Assembly (Final)

11. Cut the supplied heat shrink tubing into (2) 1.5” pieces (See Photo 12, below).

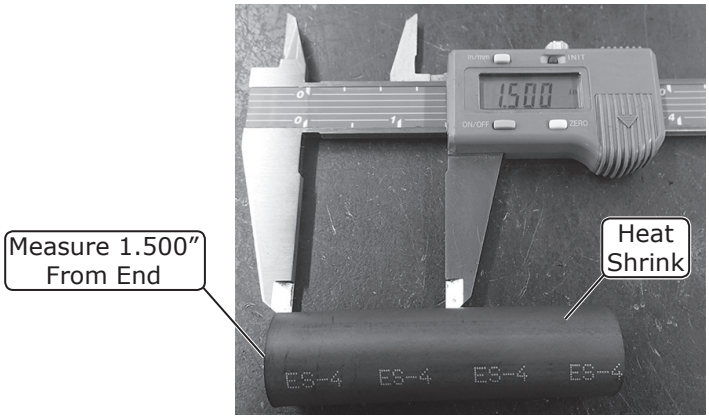


Photo 12

12. Install (1) piece of the heat shrink tubing over the crimped cable. Cover the inspection window as shown in Photo 13, below).

13. Melt the heat shrink tubing with a heat gun, butane torch or other suitable means (See Photo 14, below). **NOTE: Use caution when heating components. Adhesive will flow from the heat shrink tubing when properly heated, creating a strong weatherproof seal. Only attempt this procedure in a well-ventilated area.**

14. Repeat Steps 4 through 13 using the 3/8” ID compression lug for the other end of the power cable.

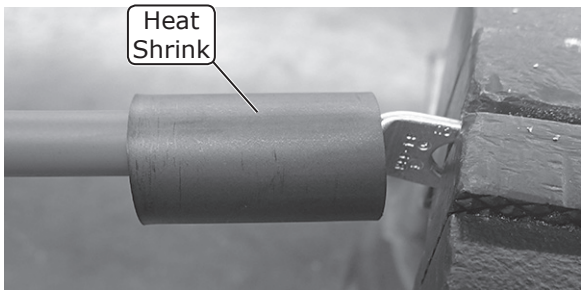


Photo 13

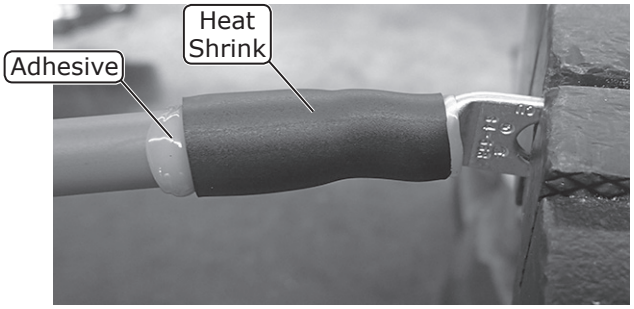


Photo 14

15. Slide the cable boot onto the power cable as shown in Photo 15, below.

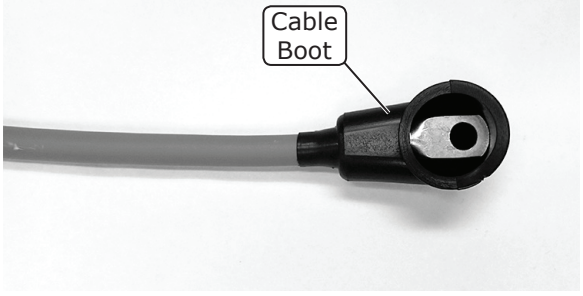


Photo 15

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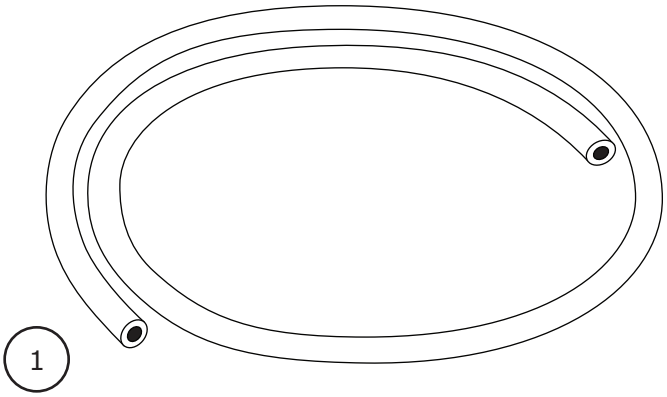
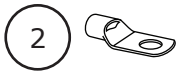
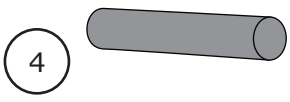
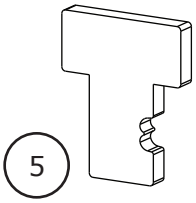
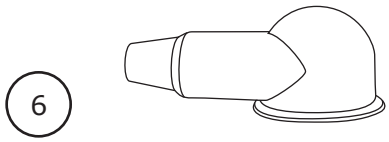
Checked By: _____
Packed By: _____
Date: _____











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