

Source: Leece-Neville Heavy Duty Systems Division -
Arcade, NY USA
Date: July 19, 2006
Subject: Core Identification Supplement
Bulletin No: TSB-1046
Models: All 2000 series alternator and MS2 starter motor cores

Technical Service Bulletin

The purpose of this bulletin is to supplement the information given in the PP-1227-CID Core Identification Guide, and to further define methods to differentiate between product models for the purpose of core returns. This bulletin is meant to be used in conjunction with the Core Identification Guide. It also further defines the core families.

Change summary:

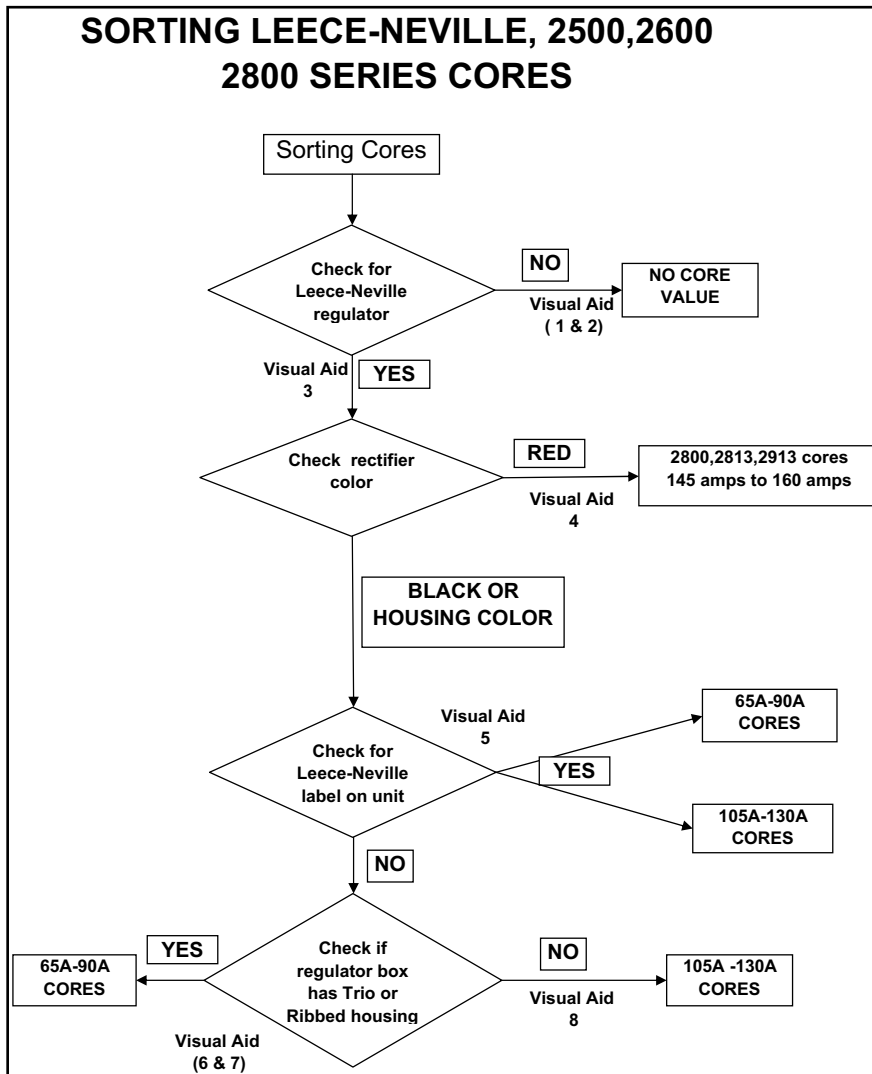
- 1- No longer accepting anything under 100 amps for cores.
- 2- No longer accepting ribbed housings or units with diode trios.
- 3- New core family breakdowns for LN2800ALT, LNMS2OCST, LNMS2ST.

Sorting 2000 Series Cores

Check to be sure that the alternator has a Leece-Neville regulator. (See Visual Aid #1 and #2.)

Visual Aid #1

Units with Transpo regulator- No value



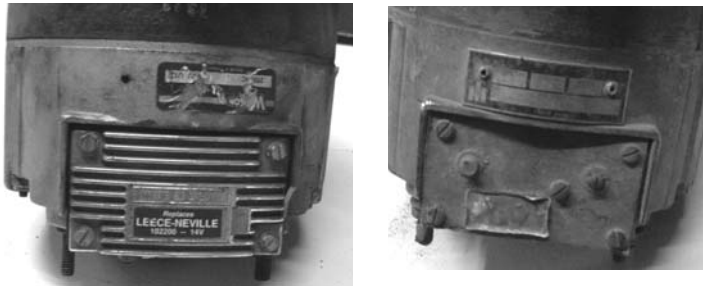
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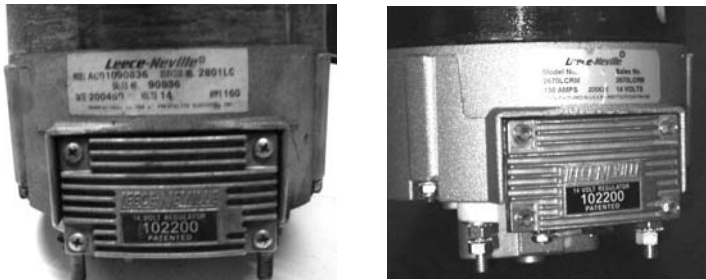
Visual Aid #2

Units with Non Leece-Neville regulator- No value



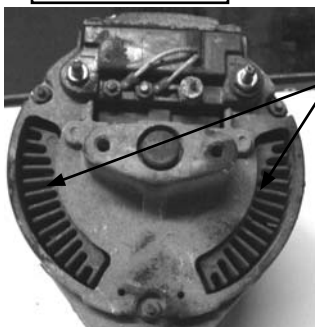
If unit has a Leece-Neville regulator, proceed to next step. (See Visual Aid #3.)

Visual Aid #3



Check rectifier color. (See Visual Aid #4.)

Visual Aid #4



If rectifier is red, it is 2800, 2813, 2913 core 145-160 amps. If no trio assembly connected to regulator, it is the JB series.

If rectifier is black or housing color, check for Leece-Neville label. (See Visual Aid #5.) If label is present, check for 65A-90A, or 105A-130A.

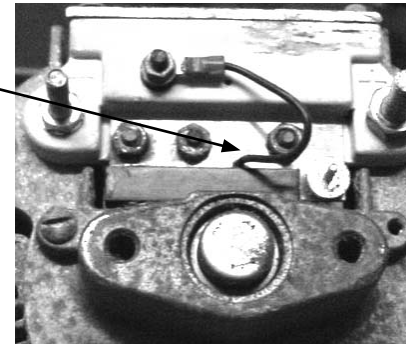
Visual Aid #5



If Leece-Neville label is not present, or can't be read, check if regulator box has trio or ribbed housing. (See Visual Aid #6 and #7.)

Visual Aid #6

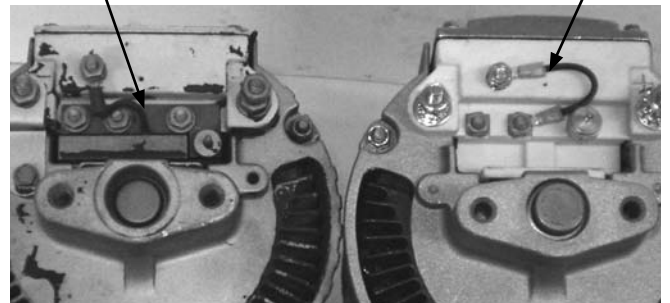
65-90 amp unit, 2500 series, black or housing color rectifier rings with trio assembly (under plate) connected to regulator. **Discard core.**



NOTE: When a trio is present, it will be under the plate, a connector wire will be seen emerging from the plate and going to the connection point.

With trio

Without trio



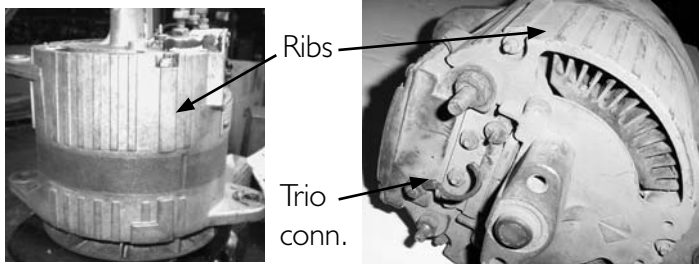
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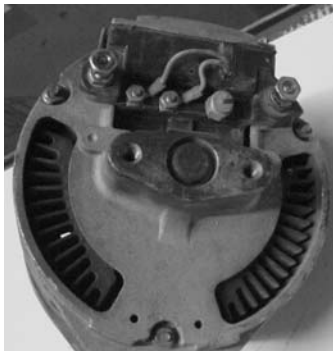
Visual Aid #7

65-90 amp unit, 2500 series, ribbed housing and regulator with trio connection. **Discard core.**



If rectifier is black and unit does not have regulator box with trio or ribbed housing, it is 105A-130A. (See Visual Aid #8.)

Visual Aid #8



105-130 amp units,
2613JB, 2670JB

If rectifier is red or casting color, you may further identify the core by gaging the rectifier height.

Procedure for using gage. (See Visual Aid #9.)

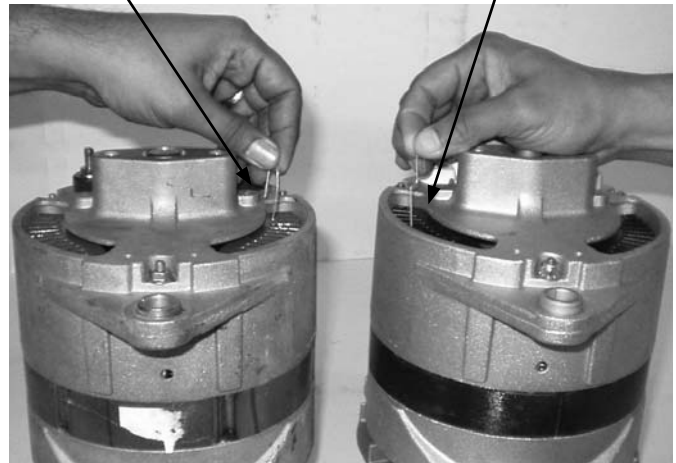
- 1) Insert gage (as shown in picture) into one of the gaps between ribs in rectifier ring.
- 2) Push gage as far down as possible.
- 3) Rotate gage 90 degrees and pull upwards until gage stops against bottom of the rectifier.
- 4) Check if gage fits or gage is too long.

Visual Aid #9



Gage fits

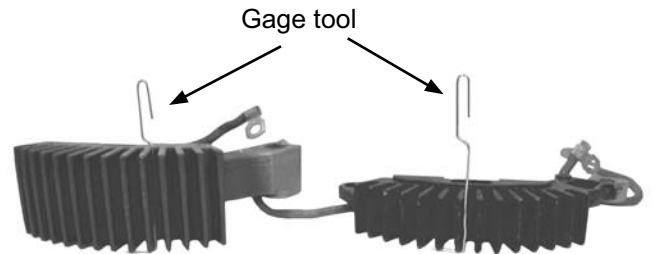
Gage too long



160A - 2800 Alt.

130A - 2670 Alt.

Using gage on rectifier components.



160A - 2800 Alt.

130A - 2670 Alt.

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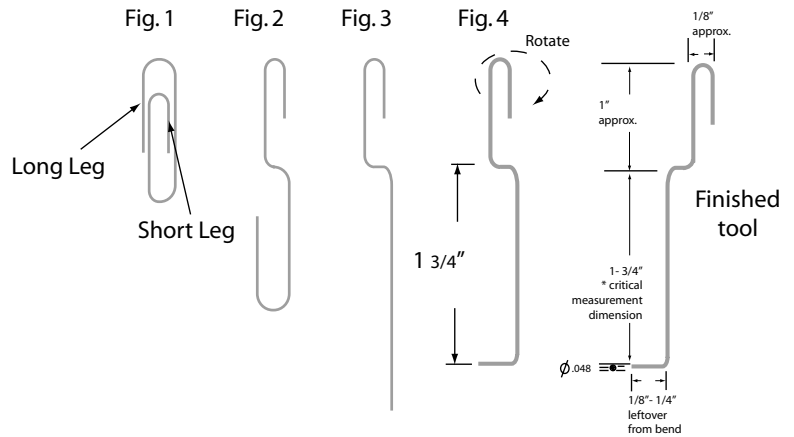
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Procedure for fabrication of JB alternator identification gage tool. (See Visual Aid #10.)

Visual Aid #10

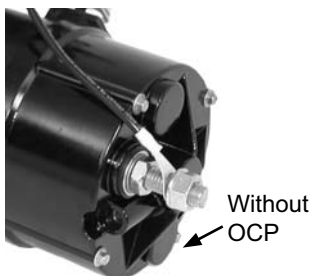
- 1) Holding the "short" leg of a standard paper clip (Figure #1), open the "long" leg (See Figure #2).
- 2) Straighten "long" leg (See Figure #3).
- 3) Measure 1- 3/4 inches from bent end and bend tip of "long" leg 90 degrees (see Figure #4).
- 4) Rotate top so that bend is in proper direction for handling ease (See Figure #4).
- 5) Note - If required, flatten the tool while laying it on flat surface.



MS2 Starter Motors

1- No longer accept MS2 cores in place of 42mt cores.

2- We are re-emphasizing the difference in the core groups for OCP and non-OCP units.



Revised Core Groups

LN2600ALT	LN2800ALT
2500JB	2800JB
2500LC	2800JC
2502LC	2800LC
2509JB	2800LCRM
2511JB	2802JB
2524JB	2802JC
2526JB	2802LC
2526JC	2805JB
2526LC	2805JC
2550J	2805LC
2600JB	2813LCRM
2600JC	2824JB
2613LCRM	2824LC
2670JB	2825LC
2670JC	2913LCRM
2670LC	
2670LCRM	
2670RJ	
2674J	
2676LC	
2680JI	
2700JB	
2700JC	
2700LC	
2702LC	
2713LC	

LNMS2OCST	LNMS2ST
MS2-500RM	MS2-501RM
MS2-500S	MS2-501S
MS2-504RM	MS2-502S
MS2-504S	MS2503RM
MS2-505S	MS2-503RM
MS2-507S	MS2-503S
MS2509RM	MS2506RM
MS2-509RM	MS2-506RM
MS2-509S	MS2-506S
MS2-510RM	MS2508RM
MS2-510S	MS2-508RM
MS2-521S	MS2-508S
MS2531RM	MS2-511RM
MS2-531RM	MS2-511S
MS2-531S	MS2-512S
MS2-571RM	MS2-513S
MS2-571S	MS2-514S
	MS2-520S
	MS2530RM
	MS2-530RM
	MS2-530S
	MS2-570RM
	MS2-570S

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