



COMPETITIVE EDGE



The “can use” application feature in our catalog allows practical consolidation of electrical units; giving distributor countermen and outside sales personnel additional chances to complete the sale.



All of our units have a 1 year/unlimited mileage warranty from the date of installation, matching OE programs for similar applications.



World American® customer support and tech services utilize highly qualified professionals to deliver the best knowledge and service in the industry.



Every single unit is tested to our rigorous internal standards. No unit is shipped that is not a proven performer!



All *World American*® heavy-duty starting motors are equipped with a ratchet design pinion gear for positive engagement starts every time.



Every *World American*® alternator is guaranteed to match or exceed the amperage output of the original design.



All *World American*® units are packaged with color-coded connections and easy to understand instructions. This attention to detail will reduce in large measure the amount of defect claims due to incorrect installation procedures.

TABLE OF CONTENTS

BASIC INSTALLATION/GUIDES

Part Number Identification Guide	2
Visual Identification Guide	3
General Notes	4

ELECTRICAL COMPONENT SECTION

Replacement Starters:	5-17
Mid-Range Starters	
General Motors® - Style	6
Ford® - Style	6-7
Delco® - Style	7
Heavy Duty Starters	
Delco® - Style	8-13
Denso® - Style	14-15
Denso® - Style Application Chart	16
Refrigeration Starters	
Thermo King	17
Replacement Solenoids	
Delco® - Style	17
Replacement Alternators:	19-36
Mid-Range Alternators	
General Motors® - Style	19
Ford® - Style	20
Heavy Duty Alternators	
Delco® - Style	21-34
Leece-Neville® - Style	35-36
Replacement Components:	37-46
Power Cables	38
Electrical Connectors	38-39
Junction Box	39
Solenoid Valves	40
Electric 2 Speed Motor	40
Electro-Pneumatic Switches	41-42
Replacement Lights	43-45

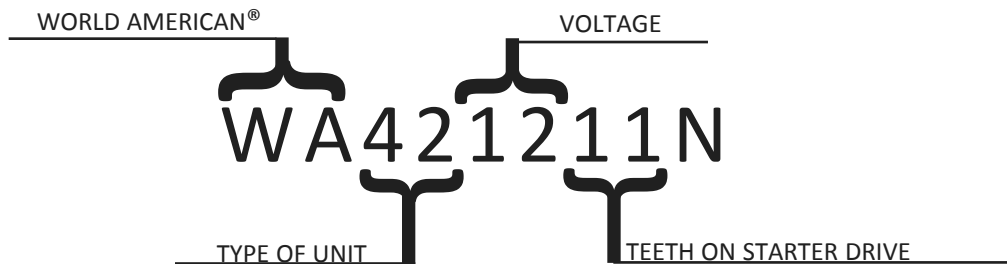
INSTALLATION GUIDES/WARRANTY SECTION

All Starters	47
Mid-Range Alternators	48
Delco® - Style Alternators	49
Leece-Neville® - Style Alternators	50
WARRANTY	51
WARRANTY FORM	52

PARTS LISTED IN THIS CATALOG ARE NOT NECESSARILY MANUFACTURED BY THE ORIGINAL EQUIPMENT MANUFACTURER AND ANY REFERENCE TO THE TRADEMARKS OR PART NUMBERS OF OTHERS ARE FOR CROSS REFERENCE INFORMATIONAL PURPOSES ONLY. THE PHOTOS PROVIDED HEREIN ARE PROVIDED ONLY FOR ILLUSTRATIVE PURPOSES. THE ACTUAL PRODUCTS SUPPLIED MAY DIFFER FROM THE PHOTOS. THE TRADEMARKS OF OTHERS REFERRED TO HEREIN ARE OWNED BY THEIR RESPECTIVE COMPANIES AND ARE NOT AFFILIATED IN ANY WAY WITH MIDWEST TRUCK & AUTO PARTS, INC.™. WORLD AMERICAN®, MOTIVE GEAR® AND MOTIVE GEAR PERFORMANCE® ARE REGISTERED TRADEMARKS OF MIDWEST TRUCK & AUTO PARTS, INC.™. USE OF THE '®' IN CONNECTION WITH A MARK OF MIDWEST TRUCK & AUTO PARTS, INC.™ INDICATES THAT THE MARK IS REGISTERED IN AT LEAST THE UNITED STATES. NO REPRESENTATION IS MADE WITH RESPECT TO THE SOURCE OF MANUFACTURE OF ANY PARTICULAR PART. WHILE EVERY EFFORT IS MADE TO PROVIDE ACCURATE INFORMATION, NO GUARANTEE IS PROVIDED AS TO THE ACCURACY OF THE INFORMATION CONTAINED HEREIN. WE ARE NOT RESPONSIBLE FOR TYPOGRAPHICAL ERRORS. © 2013, MIDWEST TRUCK & AUTO PARTS, INC.™ ALL RIGHTS RESERVED. (-005)

HOW TO IDENTIFY - PART NUMBERS -

STARTERS



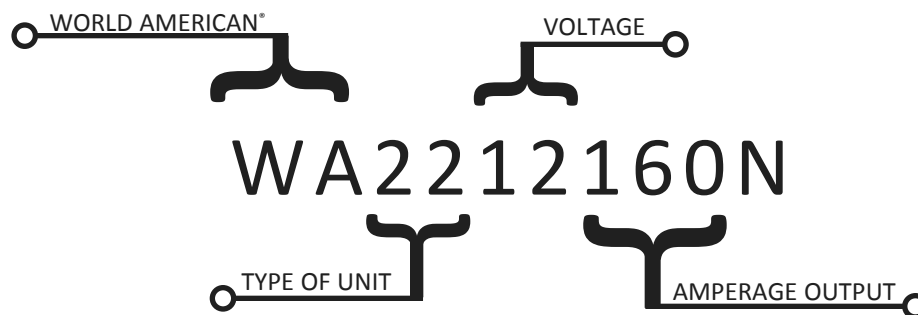
Corresponds to:

42MT™ - Style / 12V / 11 TOOTH

INTERCHANGE INFORMATION:

The numbers listed in this section are cross reference numbers for:
Dixie®, Wilson®, Popular OE, and Reman® OE

ALTERNATORS



Corresponds to:

22SI™ - Style / 12V / 160 AMP

INTERCHANGE INFORMATION:

The numbers listed in this section are cross reference numbers for:
Dixie®, Wilson®, Popular OE, and Reman® OE

VISUAL IDENTIFICATION - GUIDE -

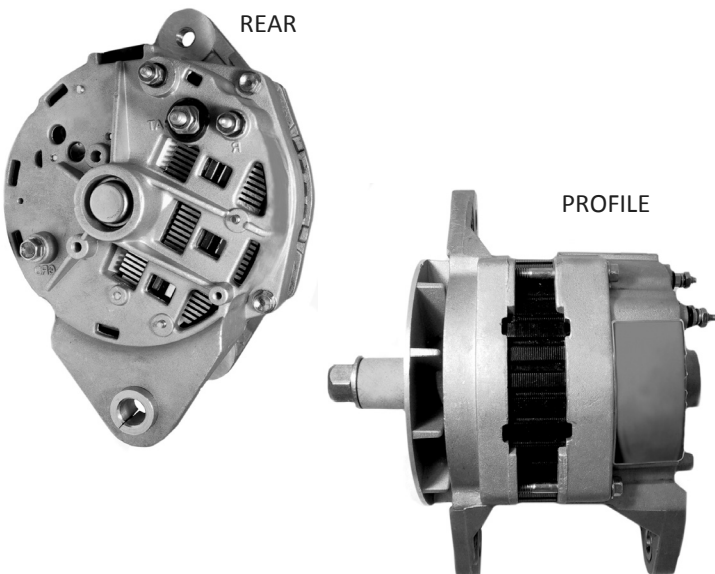
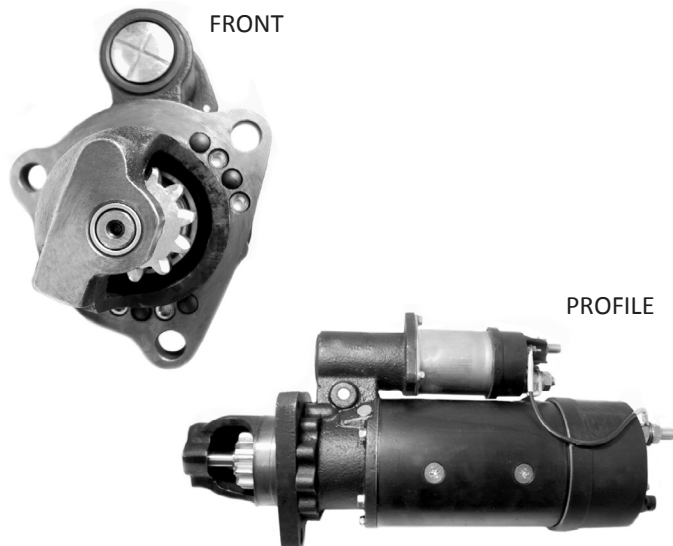
The World American® Electronic Component catalog was designed to assist distributor salespeople and their customers in easily identifying starters and alternators. Therefore, units are presented in a way that makes the proper selection accurate and simple.

STARTERS

Starter pictures are presented in two views:

Front - This angle will always show the solenoid at the 12 o'clock position to illustrate the proper drive end rotation for installation efforts.

Profile - This angle will always show the unit from a side view, detailing the opening to the drive pinion.



ALTERNATORS

Alternator pictures are presented in two views:

Rear - This angle will always show the power and auxiliary terminal, or any plug detail, needed on lighter-duty units.

Profile - This angle will always show the unit relative to the mounting configuration.

GENERAL NOTES

GENERAL NOTE #1

When substituting alternators it is OK to replace a unit one for the other as long as the system voltage is the same (either 12 or 24 volt) and the replacement alternator is rated at the same or higher amperage output. For example: it is acceptable to replace an alternator with an output of 100 amps with one of 130 amps or higher as long as the unit supplied as the replacement is the same voltage. Doing this will not affect the wiring of the vehicle or connections to the battery or the accessory connections on the back of the alternator.

GENERAL NOTE #2

Pad type mountings are becoming more popular as they appear on the newer engines. The rules pertaining to amps and voltage when substituting these alternators are the same as in note #1. Some information relative to the mounting configurations is necessary. 22SI™ Style, 24SI™ Style and 110-555 Pad types all have the same mounting patterns and drill hole circumference. These units can be substituted for each other as long as the voltage and amp ratings are applied as in general note # 1. However the mounting pattern on part number 3412135P is slightly different and substituting this with other Pad type alternators is not recommended. One exception to this rule would be on DDA Series 60 engines that are supplied from the factory with an adapter bracket used to mount the 34SI™ Style pad mount alternator. In this case, the DDA bracket will allow a 22SI™ Style, 24SI™ Style or 110-555 Pad mount configuration to be used.

GENERAL NOTE #3

21SI™, 22SI™, 24SI™ Delco®-Style and 110-555 & JB type Leece-Neville® Style alternators using the standard SAE J-180 type of mounting may be substituted for each other as per general note # 1. It is very important however to recognize that some truck makers may mount these units differently. In most cases all the units noted have a top mounting ear that connects to a curved slide bracket and is pulled tight during installation to achieve the proper belt tension. However, in some cases, the truck makers have placed the OE alternator in a "C" bracket to help control vibration. In this case the Delco® 21SI™ Style, 22SI™ Style and 24SI™ Style units can be used as substitutes for each other but not for the Leece-Neville® units. In turn the 110-555 and JB Series Leece-Neville® Style units can be used as substitutes for each other but not for the Delco® Style units. The reason for this is caused by the centerline of the bolt holes in the front housing of the units being slightly different. The center to center bolt measurement of the Leece-Neville® Style is about 1/2 inch wider.

GENERAL NOTE #4

40MT™, 41MT™, 42MT™, 50MT™ Delco® style and Denso® M-5 starting motors are equipped with an adjustable drive (nose) housing. This design feature is incorporated into these units to accommodate the need for the motor body to be rotated in order for the solenoid to clear other engine components that may hinder the fit. Carefully done this is an acceptable practice by the end user. However, it is important to note that removing the drive housing to replace the pinion gear (from 11 to 12 tooth for example) is not recommended! The pinion gear in all of our motors has been calibrated to engage the engine flywheel perfectly. By removing the pinion gear this measurement is affected. The end result may be a torque failure of the drive, causing pieces of the starter to break and jam the flywheel motion. Every starting motor application in our catalog is supplied with the housing rotation set to the most popular aftermarket position. This will result in far fewer field adjustments.

GENERAL NOTE #5

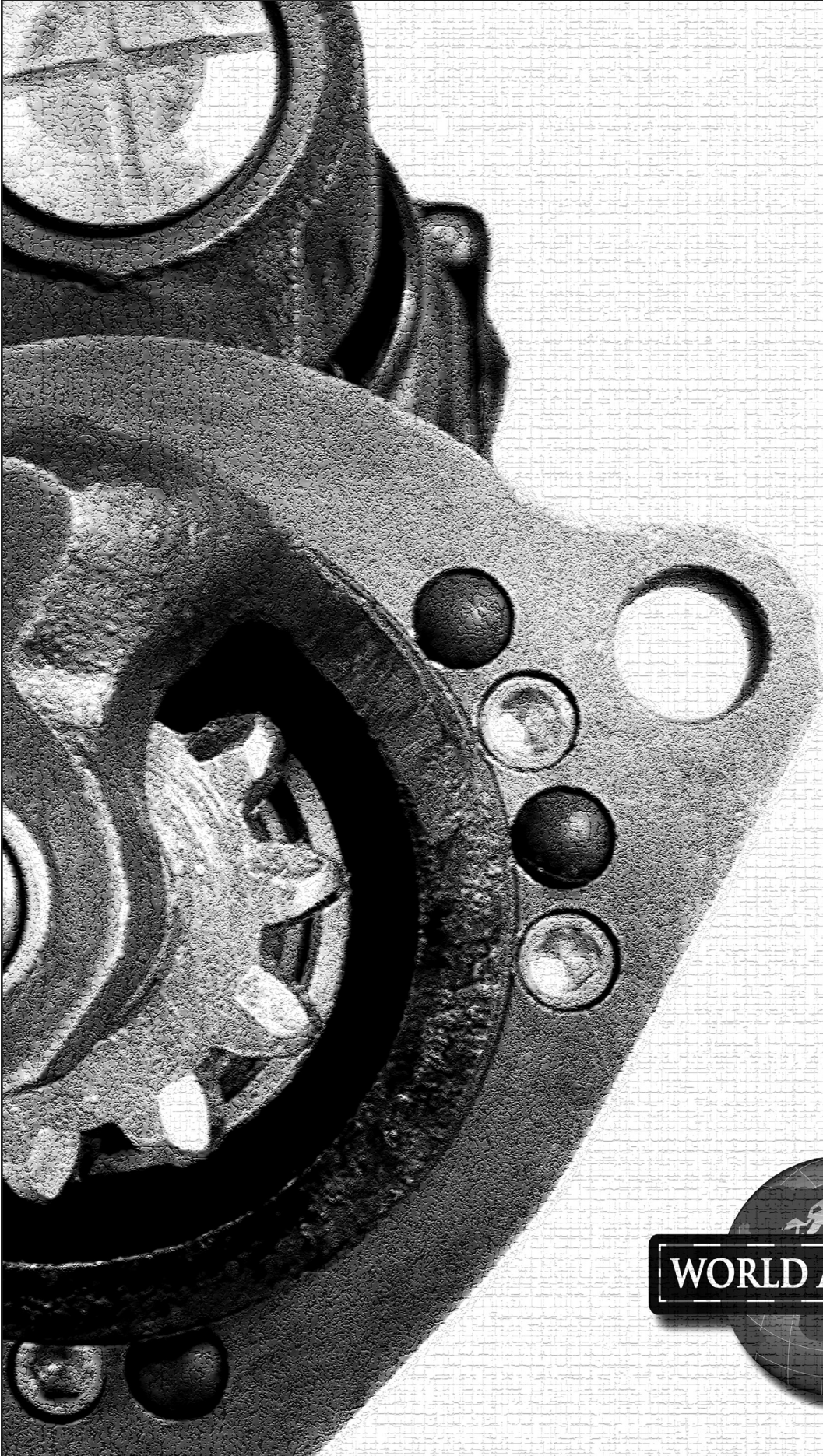
Most, if not all, 41MT™ Style starting motors are used on mid-range diesel applications. These would include city delivery trucks made by Freightliner®, Mack®, Ford®, and GMC®.

GENERAL NOTE #6

Starting motors of this group are used primarily on fleet service vehicles equipped with Cummins®, International® or Ford® mid-range diesel engines.

GENERAL NOTE #7

Denso® R-5 starters do not have a rotatable nose housing. Please refer to page 21 for the application chart. These units can be replaced with the rotatable nose units.



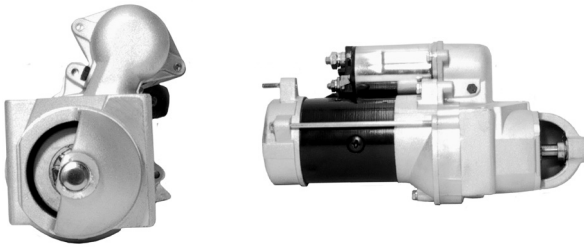
REPLACEMENT STARTERS



WORLD AMERICAN®

MID-RANGE STARTERS - GENERAL MOTORS® -TYPE

WA#:WA1210DEL



12V / 10 TOOTH / DELCO® TYPE

GENERAL NOTES: Please read GENERAL NOTE #6 for this part (page 5)

INTERCHANGE INFORMATION:

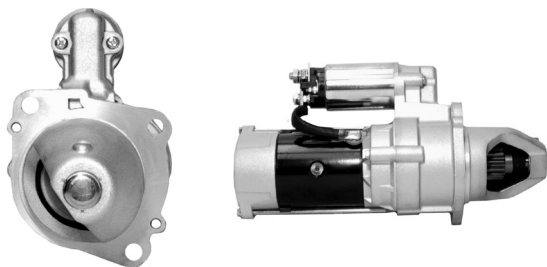
Dixie® : S-8213
Wilson® : 91-01-3927
Popular OE: 1113296
Reman® : 10465168

APPLICATION:

Delco®-type motor for Chevy® C&K, GMC®, Vans/PU
1995/2002 w/6.5L diesel engines
Fits both manual & automatic transmissions

MID-RANGE STARTERS - FORD® -TYPE

WA#:WA1213MIT



12V / 13 TOOTH / MITSUBISHI® TYPE

GENERAL NOTES: Please read GENERAL NOTE #6 for this part (page 5)

INTERCHANGE INFORMATION:

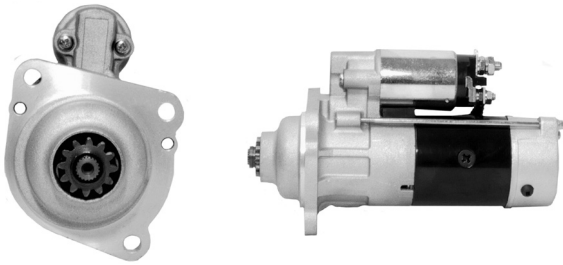
Dixie® : S-8150
Wilson® : 91-27-3039
Popular OE: M3T90071

APPLICATION:

Mitsubishi®-type motor for Ford® Van/PU
1985/1994 w/7.3L diesel engines

MID-RANGE STARTERS - FORD® -TYPE...CONTINUED

WA# : WA1212MIT



12V / 12 TOOTH / MITSUBISHI® TYPE

GENERAL NOTES: Please read GENERAL NOTE #6 for this part (page 5)

INTERCHANGE INFORMATION:

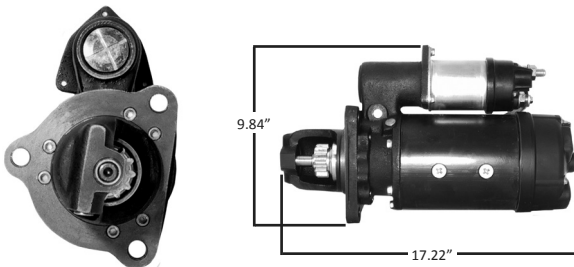
Dixie® : S-8423
Wilson® : 91-27-3156
Popular OE: M8T50071

APPLICATION:

Mitsubishi®-type motor for Ford® Van/PU
1995/2000 w/7.3L diesel engines

MID-RANGE STARTERS - DELCO® -TYPE

WA# : WA411212N



41MT™ STYLE / 12V / 12 TOOTH

GENERAL NOTES: Please read GENERAL NOTES #4 and #5 for this part (page 5)

SPECIAL NOTES: Mounting holes are 5/8".

INTERCHANGE INFORMATION:

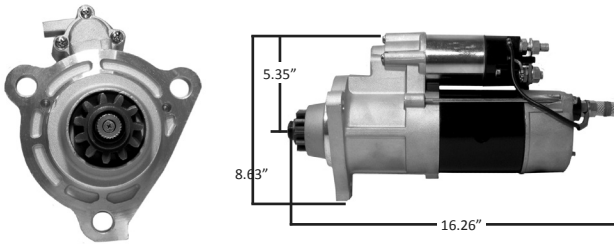
Dixie® : TS-1541
Wilson® : 91-01-4285
Popular OE: 1993871
Reman® OE: 10461089

APPLICATION:

Cummins®
Navistar®
Waukesha Motors®

HEAVY DUTY STARTERS - DELCO®-TYPE

WA391211



39MT™ STYLE / 12V / 11 TOOTH

INTERCHANGE INFORMATION:

Dixie® : TS-1679

Wilson® : 91-01-4487

Popular OE: 19011500

Reman® OE: 10461334

APPLICATION:

Most Current:

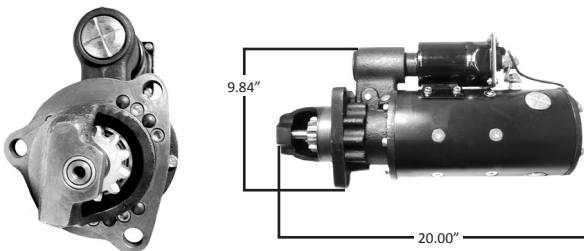
Freightliner®

Mack®

SPECIAL NOTES: Replaces Delco®'s newest heavy duty starting motor. This unit is an "open drive end" design.

WA401211N

REPLACES: WA1114098



40MT™ STYLE / 12V / 11 TOOTH

GENERAL NOTES: Please read GENERAL NOTE #4 for this part (page 5)

INTERCHANGE INFORMATION:

Dixie® : S-1107

Wilson® : 91-01-3701

Popular OE: 1114098

Reman® OE: 10461045

WORLD AMERICAN CAN USE:

WA421211

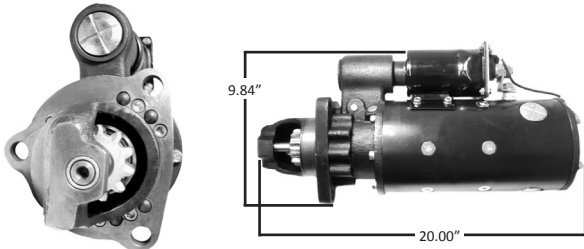
WA421211HSF

SPECIAL NOTES: Features - 100% new, positork drive, heat treated armature shaft, varnished field coils, ductile iron D.E. housing, solenoids are 100% tested for coil strength, voltage drop across contacts & reserve burn off, 100% computer tested.

HEAVY DUTY STARTERS - DELCO[®]-TYPE ...CONTINUED

WA401212N

REPLACES: WA1114156



40MT™ STYLE / 12V / 12 TOOTH

GENERAL NOTES: Please read GENERAL NOTE #4 for this part (page 5)

SPECIAL NOTES: Features - 100% new, positork drive, heat treated armature shaft, varnished field coils, ductile iron D.E. housing, solenoids are 100% tested for coil strength, voltage drop across contacts & reserve burn off, 100% computer tested.

INTERCHANGE INFORMATION:

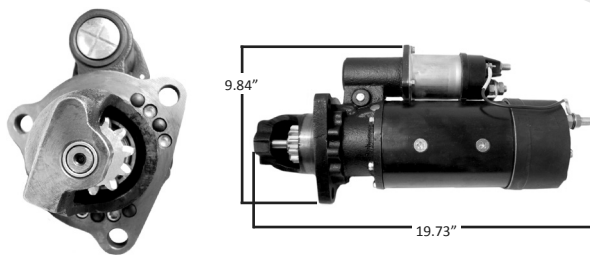
Dixie[®]: S-1132
Wilson[®]: 91-01-3702
Popular OE: 1114156
Reman[®] OE: 10461046

WORLD AMERICAN[®] CAN USE:

WA421212
WA421212HSF

WA421211N

REPLACES: WA1990352



42MT™ STYLE / 12V / 11 TOOTH

GENERAL NOTES: Please read GENERAL NOTE #4 for this part (page 5)

SPECIAL NOTES: Features - 100% new, positork drive, heat treated armature shaft, varnished field coils, ductile iron D.E. housing, solenoids are 100% tested for coil strength, voltage drop across contacts & reserve burn off, 100% computer tested.

INTERCHANGE INFORMATION:

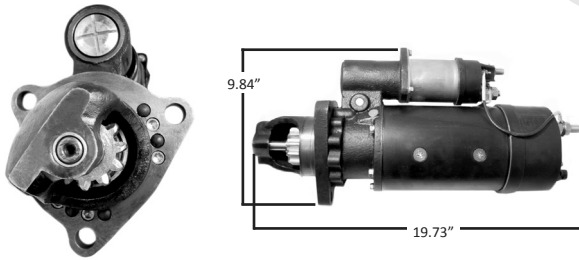
Dixie[®]: TS-1501
Wilson[®]: 91-01-4166
Popular OE: 1990483
Reman[®] OE: 10461052

WORLD AMERICAN[®] CAN USE:

WA421211HSF

HEAVY DUTY STARTERS - DELCO® -TYPE ...CONTINUED

WA#:WA421211HSF



42MT™ STYLE / 12V / 11 TOOTH
Heat Sensitive Fuse Style

GENERAL NOTES: Please read GENERAL NOTE #4 for this part (page 5)

SPECIAL NOTES: This starter motor is equipped with a Heat Sensitive Fuse style relay built into the field housing. This device is designed to interrupt power to the unit if continuous cranking overheats it to a point where it may be damaged. Once it cools off, the relay will allow the motor to be engaged once again.

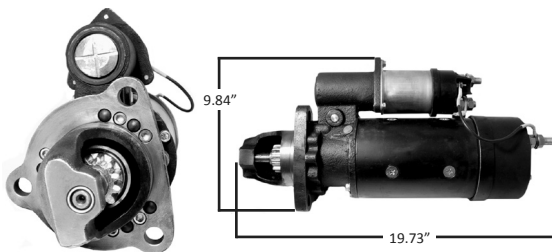
INTERCHANGE INFORMATION:

Dixie®: TS-1512
Wilson®: 91-01-4295
Popular OE: 1990355
Reman® OE: 10461028

WORLD AMERICAN® CAN USE:

WA#:WA421212N

REPLACES: WA1990353



42MT™ STYLE / 12V / 12 TOOTH

GENERAL NOTES: Please read GENERAL NOTE #4 for this part (page 5)

SPECIAL NOTES: Features - 100% new, positork drive, heat treated armature shaft, varnished field coils, ductile iron D.E. housing, solenoids are 100% tested for coil strength, voltage drop across contacts & reserve burn off, 100% computer tested.

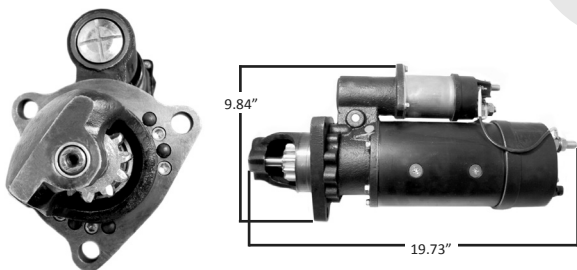
INTERCHANGE INFORMATION:

Dixie®: TS-1500
Wilson®: 91-01-4161
Popular OE: 1990429
Reman® OE: 10461100

WORLD AMERICAN® CAN USE:
WA421212HSF

HEAVY DUTY STARTERS - DELCO[®]-TYPE ...CONTINUED

WA#:WA421212HSF



42MT™ STYLE / 12V / 12 TOOTH
Heat Sensitive Fuse Style

GENERAL NOTES: Please read GENERAL NOTE #4 for this part (page 5)

SPECIAL NOTES: This starter motor is equipped with a Heat Sensitive Fuse style relay built into the field housing. This device is designed to interrupt power to the unit if continuous cranking overheats it to a point where it may be damaged. Once it cools off, the relay will allow the motor to be engaged once again.

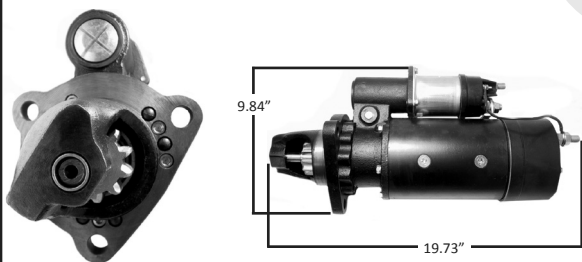
INTERCHANGE INFORMATION:

Dixie[®]: TS-1611
Wilson[®]: 91-01-4407
Popular OE: 1990406
Reman[®] OE: 10461233

WORLD AMERICAN[®] CAN USE:

WA#:WA422411N

REPLACES: WA1990456



42MT™ STYLE / 24V / 11 TOOTH

GENERAL NOTES: Please read GENERAL NOTE #4 for this part (page 5)

SPECIAL NOTES: Features - 100% new, positork drive, heat treated armature shaft, varnished field coils, ductile iron D.E. housing, solenoids are 100% tested for coil strength, voltage drop across contacts & reserve burn off, 100% computer tested.

INTERCHANGE INFORMATION:

Dixie[®]: TS-1503
Wilson[®]: 91-01-4159
Popular OE: 1990456
Reman[®] OE: 10461068

WORLD AMERICAN[®] CAN USE:

HEAVY DUTY STARTERS - DELCO® -TYPE ...CONTINUED

WA#: WA422412N

REPLACES: WA1993804



42MT™ STYLE / 24V / 12 TOOTH

GENERAL NOTES: Please read GENERAL NOTE #4 for this part (page 5)

SPECIAL NOTES: Features - 100% new, positork drive, heat treated armature shaft, varnished field coils, ductile iron D.E. housing, solenoids are 100% tested for coil strength, voltage drop across contacts & reserve burn off, 100% computer tested.

INTERCHANGE INFORMATION:

Dixie®: TS-1502

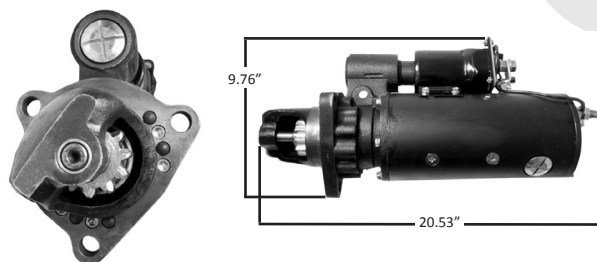
Wilson®: 91-01-4158

Popular OE: 1990453

Reman® OE: 10461025

WORLD AMERICAN® CAN USE:

WA#: WA501211N



50MT™ STYLE / 12V / 11 TOOTH

GENERAL NOTES: Please read GENERAL NOTE #4 for this part (page 5)

SPECIAL NOTES: Features - 100% new, positork drive, heat treated armature shaft, varnished field coils, ductile iron D.E. housing, solenoids are 100% tested for coil strength, voltage drop across contacts & reserve burn off, 100% computer tested.

INTERCHANGE INFORMATION:

Dixie®: S-1293

Wilson®: 91-01-4107

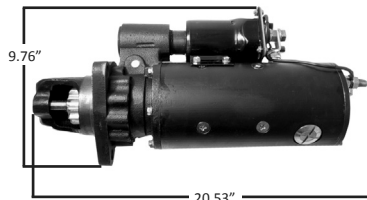
Popular OE: 1109545

Reman® OE: 10461056

WORLD AMERICAN® CAN USE:

HEAVY DUTY STARTERS - DELCO®-TYPE ...CONTINUED

WA#:WA502411



50MT™ STYLE / 24V / 11 TOOTH

GENERAL NOTES: Please read GENERAL NOTE #4 for this part (page 5)

SPECIAL NOTES: Features - 100% new, positork drive, heat treated armature shaft, varnished field coils, ductile iron D.E. housing, solenoids are 100% tested for coil strength, voltage drop across contacts & reserve burn off, 100% computer tested.

INTERCHANGE INFORMATION:

Dixie®: TS-1061

Wilson®: 91-01-3948

Popular OE: 1990250

Reman® OE: 10461057

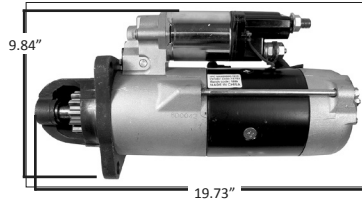
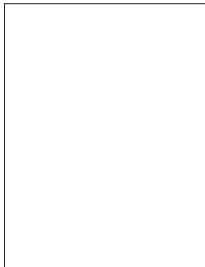
WORLD AMERICAN® CAN USE:



WWW.WORLDAMERICAN.COM

HEAVY DUTY STARTERS - DENSO® -TYPE

WA#:WA428000-1210



INTERCHANGE INFORMATION:

Dixie®: S-80135
Wilson®: 91-29-5550
Popular OE: 428000-1210

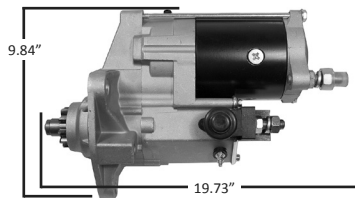
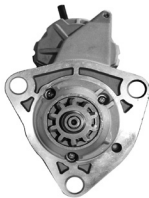
WORLD AMERICAN® CAN USE:

WA421211N, WA421211HSF

GENERAL NOTES: Please read GENERAL NOTE #4 for this part (page 5)

SPECIAL NOTES:

WA#:WA4420



INTERCHANGE INFORMATION:

Dixie®:
Wilson®: 91-29-5646
Popular OE: 428000-4420

WORLD AMERICAN® CAN USE:

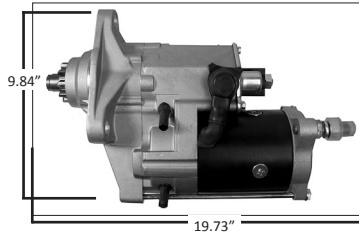
WA421211N, WA421211HSF, WA428000-1210

GENERAL NOTES: Please read GENERAL NOTE #7 for this part (page 5)

SPECIAL NOTES: Refer to the application chart on Page 21

HEAVY DUTY STARTERS - DENSO® -TYPE ...CONTINUED

WA#:WA4430



INTERCHANGE INFORMATION:

Dixie®:
Wilson®: 91-29-5647
Popular OE: 428000-4430

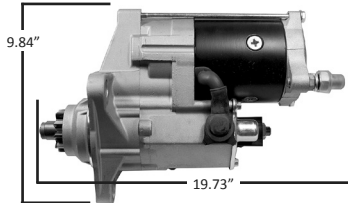
WORLD AMERICAN® CAN USE:

WA421211N, WA421211HSF, WA428000-1210

GENERAL NOTES: Please read GENERAL NOTE #7 for this part (page 5)

SPECIAL NOTES: Refer to the application chart on Page 21

WA#:WA4440



INTERCHANGE INFORMATION:

Dixie®:
Wilson®: 91-29-5648
Popular OE: 428000-4440

WORLD AMERICAN® CAN USE:

WA421211N, WA421211HSF, WA428000-1210

GENERAL NOTES: Please read GENERAL NOTE #7 for this part (page 5)

SPECIAL NOTES: Refer to the application chart on Page 21

DENSO®-STYLE STARTER APPLICATION CHART

Engine / Truck Model	Freightliner®	Sterling®	International® thru 2006	Peterbilt®	Kenworth®	MACK®	VOLVO®	Western Star®
CAT® - C11			WA4420		WA4420			
CAT® - C12			WA4420 °	WA4420 ¹				WA4420 ²
CAT® - C13	WA4420	WA4420	WA4420	WA4420	WA4420			
CAT® - C15	WA4420	WA4420	WA4420	WA4420	WA4420			WA4420 ²
CUMMINS® ISM	WA4420	WA4420	WA4420	WA4420	WA4420		WA4420	
CUMMINS® ISX	WA4440		WA4440					
CUMMINS® M11	WA4430	WA4430	WA4430	WA4430	WA4430			
CUMMINS® N14	WA4440	WA4440	WA4440	WA4440	WA4440		WA4440	
DETROIT® DIESEL 60	WA4430*	WA4430*	WA4430*	WA4430*	WA4430*			WA4430* ²
MACK® - E TECH						WA4430		
MACK® - E-7						WA4430		

* - 1994-2006 Freightliner® with fuel filter mounted on the outside of the frame rail.

° - 1998 ONLY

¹ - 1999 ONLY

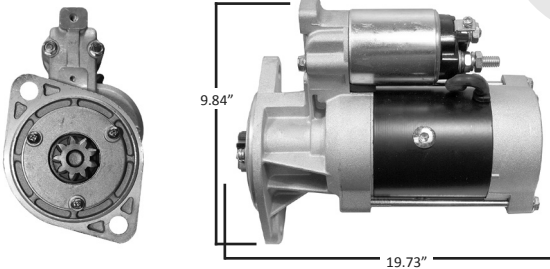
² - 2007 ONLY

³ - 1997 ONLY

STARTER MUST BE INSTALLED WITH THE DRAIN TUBE IN THE DOWNWARD POSITION.

REFRIGERATION STARTER - HITACHI® -TYPE

WA#: WATK129



Delco® STYLE / 12V / 9 TOOTH

INTERCHANGE INFORMATION:

Dixie®: S-8315
 Wilson®: 91-25-7048
 Delco®: 10465439
 Thermo King®: 45-1263
 Carrier: 20-45-1263

WORLD AMERICAN® CAN USE:

SPECIAL NOTES:

HEAVY DUTY REPLACEMENT SOLENOIDS



PART#

WA1115556

DESCRIPTION

12v SOLENOID FITS 40 & 50MT TYPE STARTERS



PART#

WA1115593

DESCRIPTION

12v SOLENOID FITS 42MT TYPE STARTERS

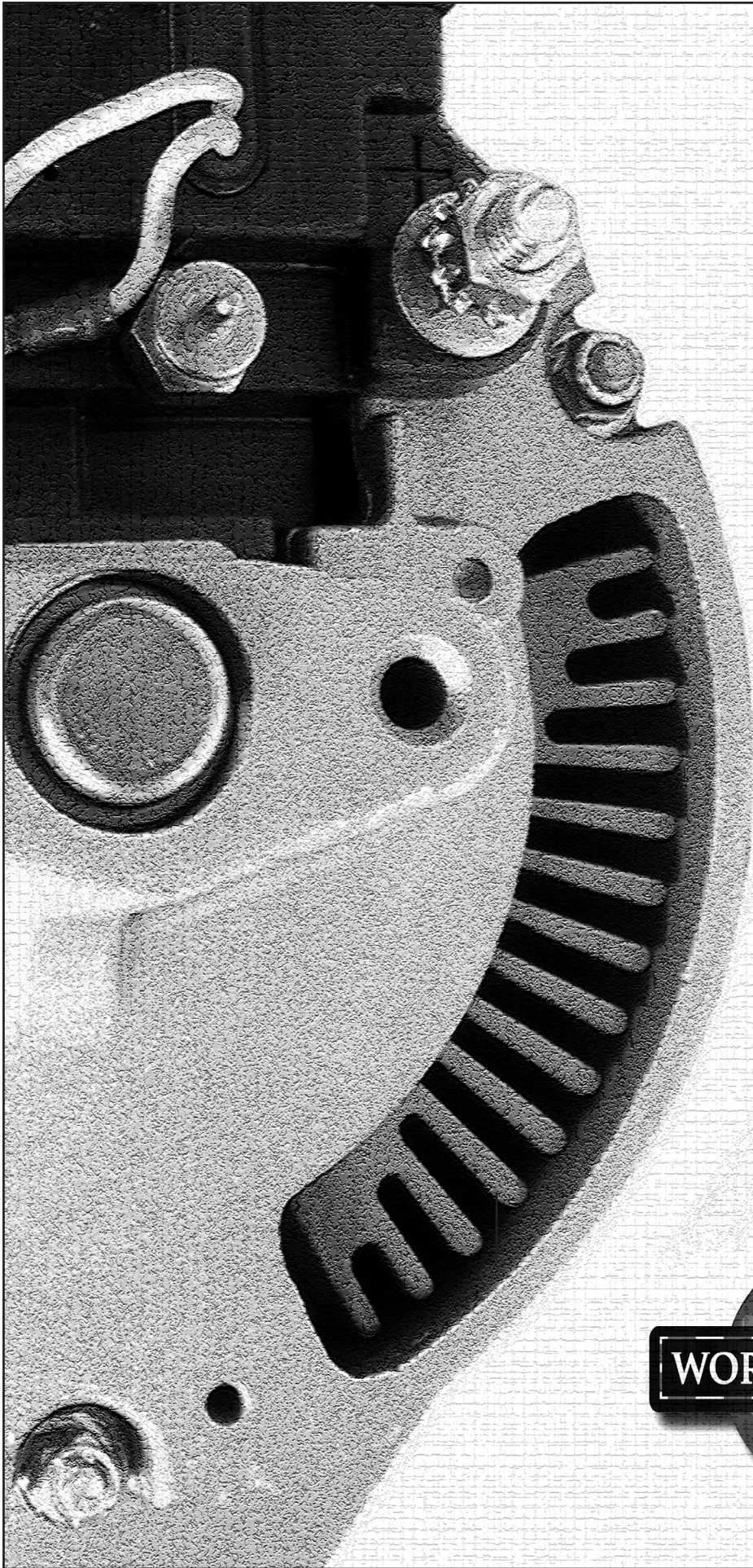


PART#

WA1115609

DESCRIPTION

12v SOLENOID FITS 37M TYPE STARTERS



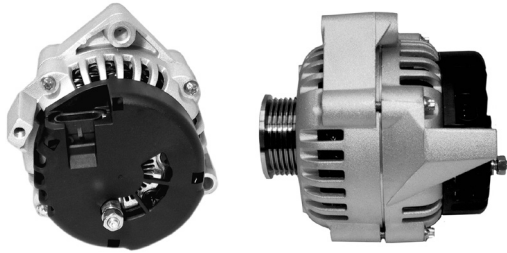
REPLACEMENT ALTERNATORS



WORLD AMERICAN®

MIDRANGE ALTERNATORS - GENERAL MOTORS® -TYPE

WA#: WA12105DEL



12V / 105A / DELCO® TYPE

SPECIAL NOTES: PLUG #313

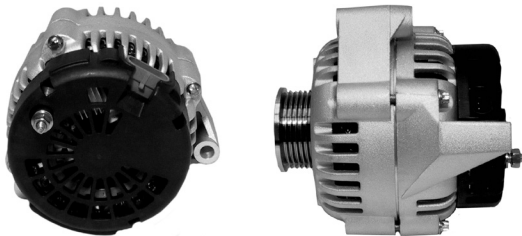
INTERCHANGE INFORMATION:

Dixie®: A1448/A1467
Wilson®: 90-01-4245
Popular OE: 10480167

APPLICATION:

1999-2000 Chevy® C&K Series
6.5L Diesel w/Int. Fan

WA#: WA12105DEL-1



12V / 105A / DELCO® TYPE

SPECIAL NOTES: PLUG #314

INTERCHANGE INFORMATION:

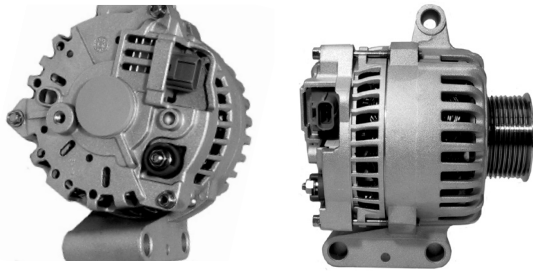
Dixie®: A-1548
Wilson®: 90-01-4339
Popular OE: 10480326

APPLICATION:

2001-2002 Silverado
6.5L Diesel

MIDRANGE ALTERNATORS - FORD® -TYPE

WA#: WA12110FOR



12V / 110A / FORD® TYPE

INTERCHANGE INFORMATION:

Dixie®: A-2024

Wilson®: 90-02-5092

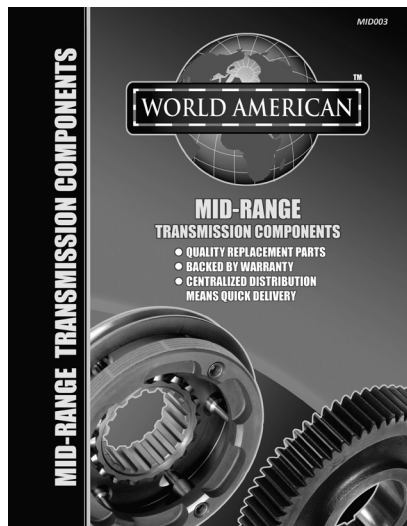
Popular OE: F81Z-10346-EA

APPLICATION:

1999-2003 Ford® F-Series

7.3L Diesel w/Single Alt.

SPECIAL NOTES: PLUG #336. This is also used in dual alternator setups. This is the top position alternator.



MID-RANGE MANUAL TRANSMISSION COMPONENTS

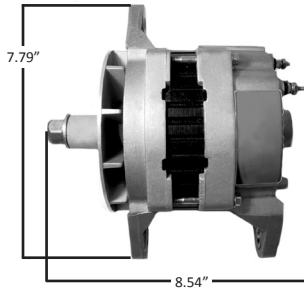
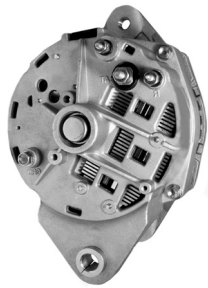
This is a valuable resource for quality manual transmission replacement components including: bearings, shafts, synchronizers, small parts kits and much more!

Contact your sales representative for a copy of the MID-RANGE MANUAL TRANSMISSION COMPONENTS catalog, or you can download a PDF version of this catalog at:

WWW.WORLDAMERICAN.COM
WWW.MIDWESTTRUCK.COM

HEAVY DUTY ALTERNATORS - DELCO® -TYPE

WA212470



INTERCHANGE INFORMATION:

Dixie® A-1351
Wilson®: 90-01-4152
Popular OE: 19010111

WORLD AMERICAN® CAN USE:

21SI™ STYLE / 24V / 70 AMP

SPECIAL NOTES: The only 24-volt unit in either the 21/22 SI™ style series of Delco®-style alternators.

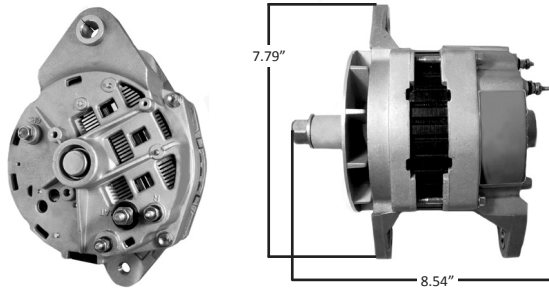


WWW.WORLDAMERICAN.COM

HEAVY DUTY ALTERNATORS - DELCO® -TYPE ...CONTINUED

WA#: WA2212145N

REPLACES: WA19020303



22SI™ STYLE / 12V / 160 AMP

GENERAL NOTES: Please read GENERAL NOTES #1 AND #3 for this part (page 5)

SPECIAL NOTES: Features: 100% new-built extra tough for heavy duty service, long-shaft rotor & longer needle bearings - provides more bearing surface to spread belt load for longer service life, 1/4" - 20 thru bolts used, universal R-terminal, features bolt pin type & 10-24 threaded connections.

INTERCHANGE INFORMATION:

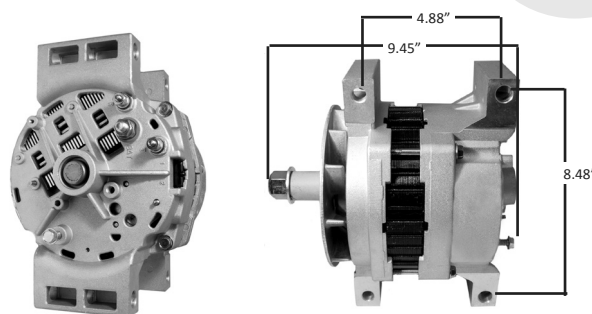
Dixie®: A-1452
 Wilson®: 90-01-4270
 Popular OE: 19020303
 Reman®: 10459190

WORLD AMERICAN CAN USE:

WA2212160N, WA2412145N, WA2412160N,
 WA2812180N, WA2812200N

WA#: WA2212145PN

REPLACES: WA19020389



22SI™ STYLE / 12V / 160 AMP
 Pad Mount

GENERAL NOTES: Please read GENERAL NOTES #2 for this part (page 5)

SPECIAL NOTES: Features: 100% new-built extra tough for heavy duty service, long-shaft rotor & longer needle bearings - provides more bearing surface to spread belt load for longer service life, 1/4" - 20 thru bolts used, universal R-terminal, features bolt pin type & 10-24 threaded connections.

INTERCHANGE INFORMATION:

Dixie®: A-1621
 Wilson®: 91-01-4393
 Popular OE: 19020389
 Reman®: 10459321

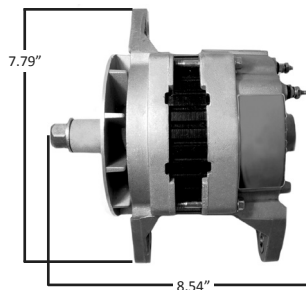
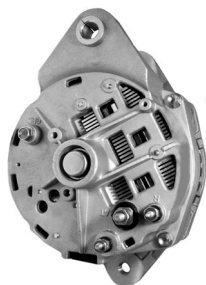
WORLD AMERICAN® CAN USE:

WA2212160PN, WA2412145PN, WA2412160PN,
 WA2812180PN, WA2812200PN

HEAVY DUTY ALTERNATORS - DELCO® -TYPE ...CONTINUED

WA#: WA2212160N

REPLACES: WA19020303



22SI™ STYLE / 12V / 160 AMP

GENERAL NOTES: Please read GENERAL NOTES #1 AND #3 for this part (page 5)

SPECIAL NOTES: Features: 100% new-built extra tough for heavy duty service, long-shaft rotor & longer needle bearings - provides more bearing surface to spread belt load for longer service life, 1/4" - 20 thru bolts used, universal R-terminal, features bolt pin type & 10-24 threaded connections.

INTERCHANGE INFORMATION:

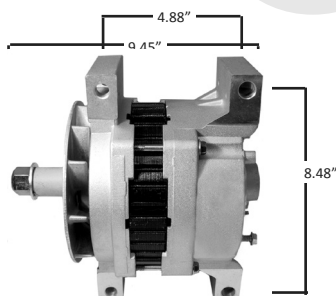
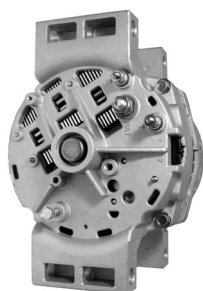
Dixie®: A-1494
 Wilson®: 90-01-4297
 Popular OE: 19020310
 Reman®: 10459472

WORLD AMERICAN CAN USE:

WA2412160N, WA2812180N, WA2812200N

WA#: WA2212160PN

REPLACES: WA19020389



22SI™ STYLE / 12V / 160 AMP
 Pad Mount

GENERAL NOTES: Please read GENERAL NOTES #2 for this part (page 5)

SPECIAL NOTES: Features: 100% new-built extra tough for heavy duty service, long-shaft rotor & longer needle bearings - provides more bearing surface to spread belt load for longer service life, 1/4" - 20 thru bolts used, universal R-terminal, features bolt pin type & 10-24 threaded connections.

INTERCHANGE INFORMATION:

Dixie®: A-1621
 Wilson®: 91-01-4393
 Popular OE: 19020889
 Reman®: 10459481

WORLD AMERICAN® CAN USE:

WA2412160N, WA2812180PN, WA2812200PN

HEAVY DUTY ALTERNATORS - DELCO® -TYPE ...CONTINUED

WA#: WA2412130N

Coming Soon

24SI™ STYLE / 12V / 130 AMP

GENERAL NOTES: Please read GENERAL NOTES #1 AND #3 for this part (page 5)

SPECIAL NOTES:

INTERCHANGE INFORMATION:

Dixie®: A-1698
Wilson®: 90-01-4465
Popular OE: 19020903
Reman®: 8700010

WORLD AMERICAN CAN USE:

WA2412145N, WA2412160N, WA2812180N,
WA2812200N

WA#: WA2412130PN

Coming Soon

24SI™ STYLE / 12V / 130 AMP
Pad Mount

GENERAL NOTES: Please read GENERAL NOTES #2 for this part (page 5)

SPECIAL NOTES:

INTERCHANGE INFORMATION:

Dixie®: A-1702
Wilson®: 90-01-4447
Popular OE: 1902902
Reman®: 8700012

WORLD AMERICAN® CAN USE:

WA2412145N, WA2412160N, WA2812180N,
WA2812200N

HEAVY DUTY ALTERNATORS - DELCO® -TYPE ...CONTINUED

WA#: WA2412145N

Coming Soon

24SI™ STYLE / 12V / 145 AMP

GENERAL NOTES: Please read GENERAL NOTES #1 AND #3 for this part (page 5)

SPECIAL NOTES:

INTERCHANGE INFORMATION:

Dixie®: A-1699
Wilson®: 90-01-4521
Popular OE: 89020901
Reman®: 8700009

WORLD AMERICAN CAN USE:

WA2412160N, WA2812180N, WA2812200N

WA#: WA2412145PN

Coming Soon

24SI™ STYLE / 12V / 145 AMP
Pad Mount

GENERAL NOTES: Please read GENERAL NOTES #2 for this part (page 5)

SPECIAL NOTES:

INTERCHANGE INFORMATION:

Dixie®: A1703
Wilson®: 90-01-4450
Popular OE: 19020900
Reman®: 8700008

WORLD AMERICAN® CAN USE:

WA2412160PN, WA2812180PN, WA2812200PN

HEAVY DUTY ALTERNATORS - DELCO® -TYPE ...CONTINUED

WA#: WA2412160N

Coming Soon

24SI™ STYLE / 12V / 160 AMP

GENERAL NOTES: Please read GENERAL NOTES #1 AND #3 for this part (page 5)

SPECIAL NOTES:

INTERCHANGE INFORMATION:

Dixie®: A-1700
Wilson®: 90-01-4467
Popular OE: 860142
Reman®: 8700021

WORLD AMERICAN CAN USE:

WA2812180N, WA2812200N

WA#: WA2412160PN

Coming Soon

24SI™ STYLE / 12V / 160 AMP
Pad Mount

GENERAL NOTES: Please read GENERAL NOTES #2 for this part (page 5)

SPECIAL NOTES:

INTERCHANGE INFORMATION:

Dixie®: A-1704
Wilson®: 90-01-4569
Popular OE: 8600043
Reman®: 8700013

WORLD AMERICAN® CAN USE:

WA28122180PN, WA2812200PN

HEAVY DUTY ALTERNATORS - DELCO® -TYPE ...CONTINUED

WA#: WA2812180N

Coming Soon

28SI™ STYLE / 12V / 180 AMP

GENERAL NOTES: Please read GENERAL NOTES #1 AND #3 for this part (page 5)

SPECIAL NOTES:

INTERCHANGE INFORMATION:

Dixie®:
Wilson®:
Popular OE: 8600223
Reman®:

WORLD AMERICAN CAN USE:

WA2812200N

WA#: WA2812180LN

Coming Soon

28SI™ STYLE / 12V / 180 AMP
Pad Mount

GENERAL NOTES:

SPECIAL NOTES:

INTERCHANGE INFORMATION:

Dixie®:
Wilson®:
Popular OE: 8600311
Reman®:

WORLD AMERICAN® CAN USE:

WA2812200LN

HEAVY DUTY ALTERNATORS - DELCO® -TYPE ...CONTINUED

WA#: **WA2812180PN**

Coming Soon

28SI™ STYLE / 12V / 180 AMP

GENERAL NOTES: Please read GENERAL NOTES #2 for this part (page 5)

SPECIAL NOTES:

INTERCHANGE INFORMATION:

Dixie®:
Wilson®:
Popular OE: 8600316
Reman®:

WORLD AMERICAN CAN USE:

WA2812200N

WA#: **WA2812200N**

Coming Soon

28SI™ STYLE / 12V / 200 AMP
Pad Mount

GENERAL NOTES: Please read GENERAL NOTES #1 AND #3 for this part (page 5)

SPECIAL NOTES:

INTERCHANGE INFORMATION:

Dixie®:
Wilson®:
Popular OE: 8600313
Reman®:

WORLD AMERICAN® CAN USE:

HEAVY DUTY ALTERNATORS - DELCO® -TYPE ...CONTINUED

WA#: WA2812200LN

Coming Soon

28SI™ STYLE / 12V / 200 AMP

GENERAL NOTES:

SPECIAL NOTES:

INTERCHANGE INFORMATION:

Dixie*:

Wilson*:

Popular OE: 8600307

Reman®:

WORLD AMERICAN CAN USE:

WA#: WA2812200PN

Coming Soon

28SI™ STYLE / 12V / 200 AMP
Pad Mount

GENERAL NOTES:

SPECIAL NOTES:

INTERCHANGE INFORMATION:

Dixie*:

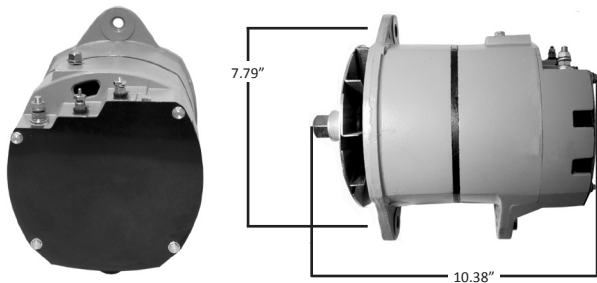
Wilson*:

Popular OE: 8600314

WORLD AMERICAN® CAN USE:

HEAVY DUTY ALTERNATORS - DELCO® -TYPE ...CONTINUED

WA#:WA3312135



33SI™ STYLE / 12V / 135 AMP

"Brushless Type"

GENERAL NOTES: Please read GENERAL NOTES #2 for this part (page 5)

SPECIAL NOTES:

INTERCHANGE INFORMATION:

Dixie®: A -1456

Wilson®: 90-01-4262

Popular OE: 19011155

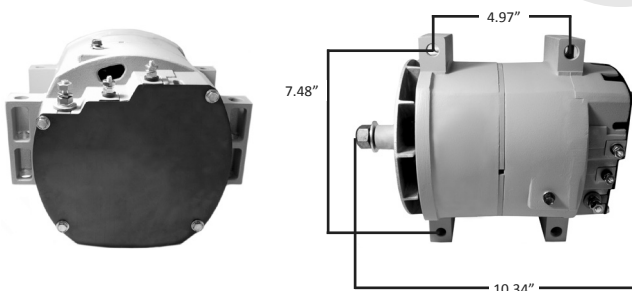
Reman® OE: 10459141

WORLD AMERICAN® CAN USE:

WA3512140N, WA3612170N

WA#:WA3412135P

REPLACES: WA19011177



34SI™ STYLE / 12V / 135 AMP

Pad Mount

"Brushless Type"

GENERAL NOTES: Please read GENERAL NOTES #2 for this part (page 5)

SPECIAL NOTES:

INTERCHANGE INFORMATION:

Dixie®: A -1659

Wilson®: 90-01-4344

Popular OE: 19011177

Reman® OE: 10459278

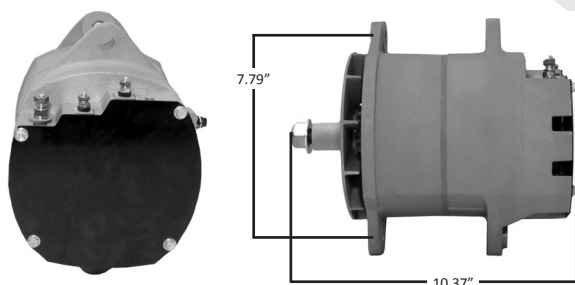
WORLD AMERICAN® CAN USE:

WA3512140PN, WA3612170PN

HEAVY DUTY ALTERNATORS - DELCO® -TYPE ...CONTINUED

WA#: WA3412135QN

REPLACES: WA19011167



34SI™ STYLE / 12V / 135 AMP
Quad Mount Style
"Brushless Type"

GENERAL NOTES: Please read GENERAL NOTES #2 for this part (page 5)

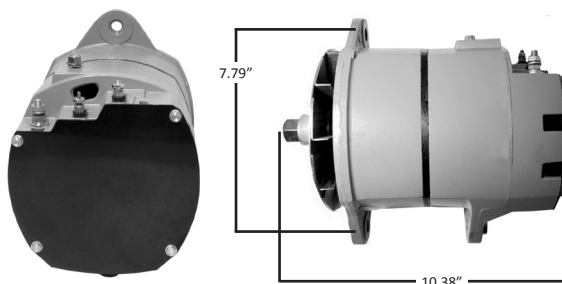
SPECIAL NOTES:

INTERCHANGE INFORMATION:

Dixie®: A-1459
Wilson®: 90-01-4272
Popular OE: 19011167
Reman® OE: 10459206

WORLD AMERICAN® CAN USE:
WA3512140QN, WA3612170QN

WA#: WA3512140N



35SI™ STYLE / 12V / 170 AMP

GENERAL NOTES: Please read GENERAL NOTES #2 for this part (page 5)

SPECIAL NOTES:

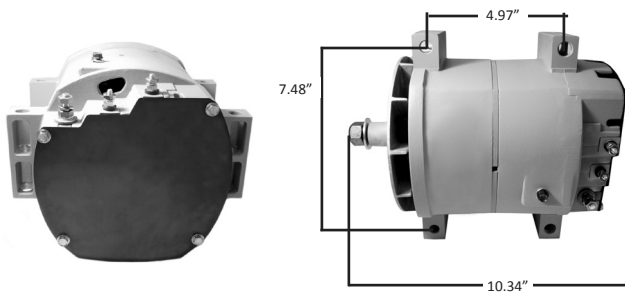
INTERCHANGE INFORMATION:

Dixie®: A1719
Wilson®: 90-01-4511
Popular OE: 8600064/19011232

WORLD AMERICAN CAN USE:
WA3612170N

HEAVY DUTY ALTERNATORS - DELCO® -TYPE ...CONTINUED

WA#: WA3512140PN



35SI™ STYLE / 12V / 170 AMP

GENERAL NOTES: Please read GENERAL NOTES #2 for this part (page 5)

SPECIAL NOTES:

INTERCHANGE INFORMATION:

Dixie®: A1721

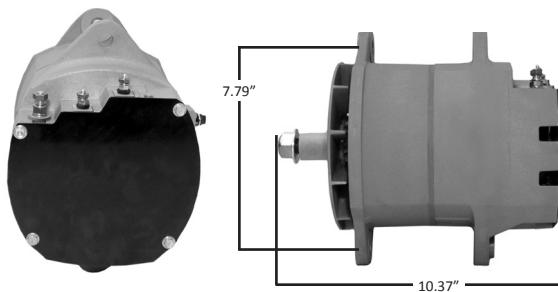
Wilson®: 90-01-4513

Popular OE: 8600066/19011258

WORLD AMERICAN® CAN USE:

WA3612170PN

WA#: WA3512140QN



35SI™ STYLE / 12V / 170 AMP

GENERAL NOTES: Please read GENERAL NOTES #2 for this part (page 5)

SPECIAL NOTES:

INTERCHANGE INFORMATION:

Dixie®: A1720

Wilson®: 90-01-4512

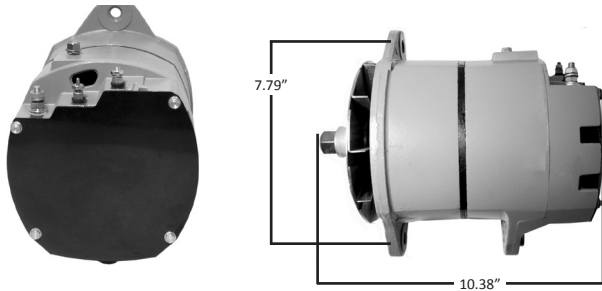
Popular OE: 8600065

WORLD AMERICAN CAN USE:

WA3612170QN

HEAVY DUTY ALTERNATORS - DELCO® -TYPE ...CONTINUED

WA#: WA3612170N



36SI™ STYLE / 12V / 170 AMP

GENERAL NOTES:

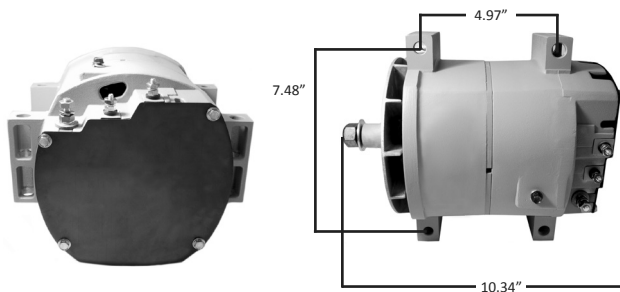
SPECIAL NOTES:

INTERCHANGE INFORMATION:

Dixie®: A1707
Wilson®: 90-01-4506
Popular OE: 8600072

WORLD AMERICAN® CAN USE:

WA#: WA3612170PN



36SI™ STYLE / 12V / 170 AMP

GENERAL NOTES:

SPECIAL NOTES:

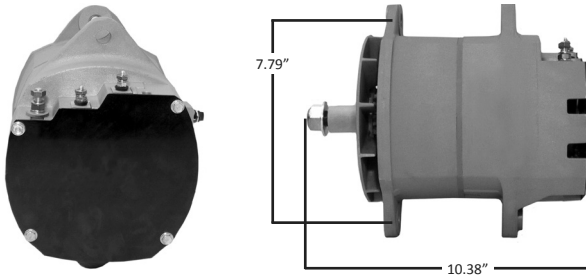
INTERCHANGE INFORMATION:

Dixie®: A1711
Wilson®: 90-01-4505
Popular OE: 8600060

WORLD AMERICAN CAN USE:

HEAVY DUTY ALTERNATORS - DELCO® -TYPE ...CONTINUED

WA#: WA3612170QN



36SI™ STYLE / 12V / 170 AMP

GENERAL NOTES:

SPECIAL NOTES:

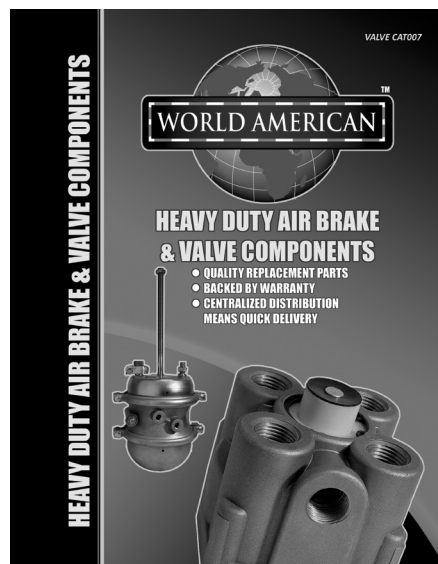
INTERCHANGE INFORMATION:

Dixie®: A1713

Wilson®: 90-01-4503

Popular OE: 8600071

WORLD AMERICAN® CAN USE:



HEAVY DUTY AIR BRAKE & VALVE COMPONENTS

This catalog is a valuable resource for quality replacement brake valves as well as clutches, steering components, electrical components, and water & hydraulic pumps.

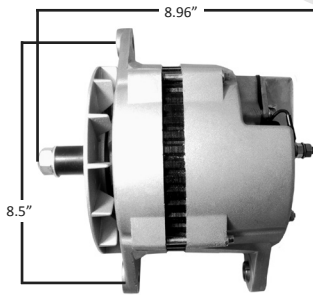
Contact your sales representative for a copy, or download a PDF version at:

www.worldamerican.com

www.midwesttruck.com

HEAVY DUTY ALTERNATORS - LEECE-NEVILLE® -TYPE

WA#: WA110-555N



LN / 12V / 140 AMP
"Load Handler" Style

INTERCHANGE INFORMATION:

Dixie®: A-9204
Wilson®: 90-05-9124
Popular OE: 8LHA2070VB
Reman® OE: 110-555HD

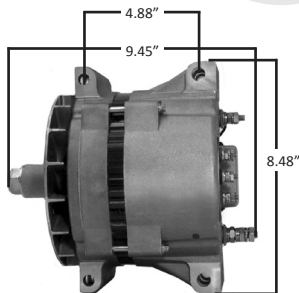
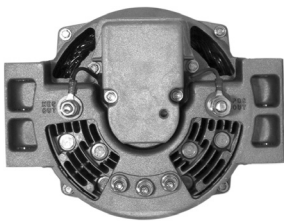
WORLD AMERICAN® CAN USE:

WA2812160JB
WA2212145

GENERAL NOTES: Please refer to GENERAL NOTES #1 AND #3 for this part (page 5)

SPECIAL NOTES: This is the most popular substitute replacement alternator in the marketplace. This unit can be used on almost all standard SAE J-180 mounting configurations.

WA#: WA110-555PN



LN / 12V / 140 AMP
Pad Mount - "Load Handler" Style

INTERCHANGE INFORMATION:

Dixie®: A-9384
Wilson®: 90-05-9220
Popular OE: 8LHP2170V
Reman® OE: 110-555P

WORLD AMERICAN® CAN USE:

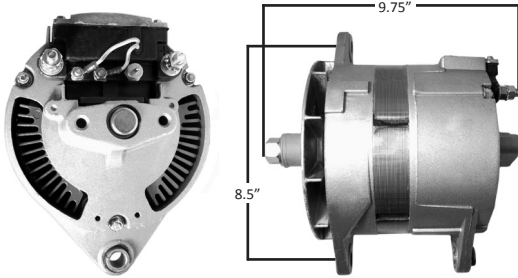
WA222145P

GENERAL NOTES: Please refer to GENERAL NOTES #2 for this part (page 5)

SPECIAL NOTES: Pad mount type units are seen primarily on truck models after 2001. This type of mounting was developed to overcome harsh vibrations caused by big bore diesel engines.

HEAVY DUTY ALTERNATORS - LEECE-NEVILLE® -TYPE

WA#: WA2712130JB



27 SERIES STYLE / 12V / 130 AMP JB Type

GENERAL NOTES: Please refer to GENERAL NOTES #1 AND #3 for this part (page 5)

SPECIAL NOTES: This L/N type alternator has the biggest frame of all of the most popular high output replacement units. Take care to measure clearances before using as a substitute unit.

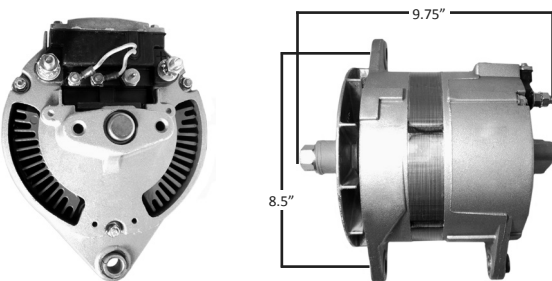
INTERCHANGE INFORMATION:

Dixie®: A-771
Wilson®: 90-04-7021
Popular OE: 2670LC
Reman® OE: 2760LCRM

WORLD AMERICAN® CAN USE:

WA110-555
WA2812160JB
WA2212145

WA#: WA2812160JB



28 SERIES STYLE / 12V / 160 AMP JB Type

GENERAL NOTES: Please refer to GENERAL NOTES #1 AND #3 for this part (page 5)

SPECIAL NOTES: This L/N type alternator has the biggest frame of all of the most popular high output replacement units. Take care to measure clearances before using as a substitute unit.

INTERCHANGE INFORMATION:

Dixie®: A-772
Wilson®: 90-04-7039
Popular OE: 2800LC
Reman® OE: 2800LCRM

WORLD AMERICAN® CAN USE:



REPLACEMENT COMPONENTS



ELECTRICAL COMPONENTS - REPLACEMENT POWER CORDS



WA#: WA22-4621 DESCRIPTION: HEAVY DUTY ELECTRICAL CORD,
6/12 GA., 1/10 GA.

REPLACES: PHILIPS® 22-4621



WA#: WA24-4621 DESCRIPTION: LIGHT DUTY ELECTRICAL CORD,
6/14 GA., 1/12 GA.

REPLACES: PHILIPS® 22-4621



WA#: WA30-4621 DESCRIPTION: 15' ABS GREEN ELECTRICAL
CORD, 4/12 GA., 2/10 GA., 1/8 GA.

REPLACES: PHILIPS® 15-630

ELECTRICAL COMPONENTS - REPLACEMENT CONNECTORS

4,6, and 7 - Way Sockets



WA#: WA15-400 DESCRIPTION: 4-way electrical socket

REPLACES: PHILIPS® 15-400



WA#: WA15-430 DESCRIPTION: 4-way electrical plug
with spring & cable

REPLACES: PHILIPS® 15-430



WA#: WA15-600 DESCRIPTION: 6-way electrical socket

REPLACES: PHILIPS® 15-600

ELECTRICAL COMPONENTS - REPLACEMENT CONNECTORS

4,6, and 7 - Way Sockets



WA#: **WA15-630**

REPLACES: PHILIPS® 15-630

DESCRIPTION: 6-way electrical plug with spring & cable



WA#: **WA15-720**

REPLACES: PHILIPS® 15-720

DESCRIPTION: 7-way electrical socket with split 2-pin hole



WA#: **WA15-730**

REPLACES: PHILIPS® 15-730

DESCRIPTION: 7-way electrical plug with spring & cable



WA#: **WA15-740**

REPLACES: PHILIPS® 15-740

DESCRIPTION: 7-way weather hood guard

ELECTRICAL COMPONENTS - 7-TERMINAL JUNCTION BOX



WA#: **WA22040**

REPLACES: MIDLAND® BE22040

DESCRIPTION: 7-TERMINAL STYLE STRIP WITH GROMMETS & HARDWARE

WWW.WORLDAMERICAN.COM

ELECTRICAL COMPONENTS - REPLACEMENT SOLENOID VALVES

Shift Solenoid Valves



WA#: WAKN68237

REPLACES: MIDLAND® KN68237

DESCRIPTION: 24 Volt,
Supply Port (1) 1/4" P.T.
Delivery Port (1) 1/4" P.T.



WA#: 288905C91

REPLACES: MIDLAND® KN68230

DESCRIPTION: 12 Volt,
Supply Port (1) 1/4" P.T.
Delivery Port (1) 1/4" P.T.

Fuel Solenoid Valves



WA#: WA6997312

REPLACES: CUMMINS® 3035342, BM-6997312

DESCRIPTION: 12 Volt



WA#: WA6997324

REPLACES: CUMMINS® 3035344, BM-69973-24

DESCRIPTION: 24 Volt

ELECTRICAL COMPONENTS - REPLACEMENT ELECTRIC 2-SPEED MOTOTRS



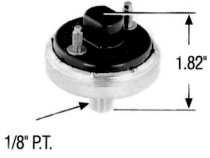
WA#: 113745R

REPLACES: EATON® 113745

DESCRIPTION: Electric shift motor, late
style 1984 & later

ELECTRICAL COMPONENTS - REPLACEMENT ELECTRO-PNEUMATIC SWITCHES

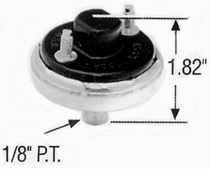
Low Pressure Switches



WA#: **WA13240**

REPLACES: MIDLAND® BE13240, 13240A

DESCRIPTION: 12 or 24 Volt, 1/8-27 NPTF thread, single pole. 2-terminal design actuates at 55psi. Circuit normally closed at 0psi. BLACK



WA#: **WA13241**

REPLACES: MIDLAND® BE13241, 13241A

DESCRIPTION: 12 or 24 Volt, 1/8-27 NPTF thread, single pole. 2-terminal design actuates at 66psi. Circuit normally closed at 0psi. BROWN



WA#: **WA228750**

REPLACES: BENDIX® LP-3™ 228750

DESCRIPTION: 1/4" P.T. double terminal. Opens at 60psi. Normally closed at 0psi.



WA#: **WA279416**

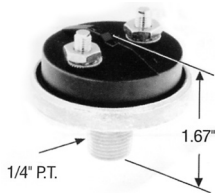
REPLACES: BENDIX® LP-3™ 279416

DESCRIPTION: 1/4" P.T. double terminal. Opens at 60psi. Normally closed at 0psi.

WORLD AMERICAN®

ELECTRICAL COMPONENTS - REPLACEMENT ELECTRO-PNEUMATIC SWITCHES

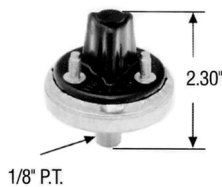
Stop Light Switches



WA#: WA13250

REPLACES: MIDLAND® BE13250, 13250
Service Circuit Stoplight Switch

DESCRIPTION: 12 Volt or 24 Volt 1/4-18 NPTF thread single pole - Two terminal design actuates at 3-5 psi circuit normally closed at 0 pressure - One million cycles at 30 amps - BLACK



WA#: WA13255

REPLACES: MIDLAND® BE13255A, 13255
Trailer Emergency Stoplight Switch

DESCRIPTION: 12 Volt or 24 Volt 1/8-27 NPTF thread actuates at 55 psi single pole - double throw - three terminal design circuit normally one open/one closed - BROWN



WA#: WA228600

REPLACES: BENDIX® LP-3™ 279416
Stoplight Switch

DESCRIPTION: 1/4" P.T. normally closed (0 psi) closes at 5 psi



Satisfaction Guaranteed

At World American® we guarantee product quality, product performance, product value and customer service satisfaction. World American® products:

- **Meet or beat industry quality requirements.**
- **Backed by a comprehensive warranty.**
- **Competitively priced.**

Visit us online for more information at:

WWW.WORLDAmerican.COM
WWW.MIDWESTTRUCK.COM

ELECTRICAL COMPONENTS - REPLACEMENT LIGHTING



WA#: WA22501A

Amber 2" LED Clr/Mrkr Lamp

REPLACES:

TRUCK-LITE® 30250Y
PETERSON® 164A
GROTE® 47113

WA#: WA22501R

Red 2" LED Clr/Mrkr Lamp

REPLACES:

TRUCK-LITE® 30250R
PETERSON® 164R
GROTE® 47112



WA#: WA22502R

Amber 2.5" LED Clr/Mrkr Lamp

REPLACES:

TRUCK-LITE® 10250Y
PETERSON® 162A
GROTE® 47123

WA#: WA22502A

Red 2.5" LED Clr/Mrkr Lamp

REPLACES:

TRUCK-LITE® 10250R
PETERSON® 162R
GROTE® 47122

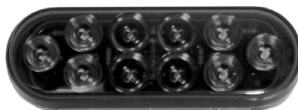


WA#: WA22546R

Red 4" Grommet Mt.10 LED S/T/T Lamp

REPLACES:

TRUCK-LITE® 44302R
PETERSON® 417R-3
GROTE® 53252



WA#: WA22565R

Red Oval 10 LED S/T/T Lamp

REPLACES:

TRUCK-LITE® 60250R
PETERSON® 420R-3
GROTE® 53962



WA#: WA10017A

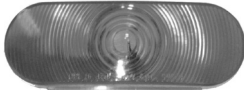
Amber Oval Mid Trir Side Turn

REPLACES:

TRUCK-LITE® 60215Y
PETERSON® -----
GROTE® 52193

All lights meet D.O.T. requirements FMVSS 108 and pass rain, temperature and humidity, vibration, shock, aging and salt spray testing as per customer's specifications.

ELECTRICAL COMPONENTS - REPLACEMENT LIGHTING ...CONTINUED



WA#:WA10019A

Amber Oval Turn Lamp

REPLACES:

TRUCK-LITE® 60202Y
PETERSON® 421A
GROTE® 52893

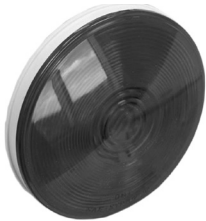


WA#:WA10015R

Red 4" Reflectorized S/T/T Lamp

REPLACES:

TRUCK-LITE® 40215R
PETERSON® 427R
GROTE® 52672



WA#:WA10227R

Red 4" S/T/T Lamp - Plain

REPLACES:

TRUCK-LITE® 4020R
PETERSON® 426R
GROTE® 52772



WA#:WA20207A

Amber 2.5" Clr/Mrkr w/Reflector

REPLACES:

TRUCK-LITE® 10205Y
PETERSON® 143A
GROTE® 45833

WA#:WA20207R

Red 2.5" Clr/Mrkr w/Reflector

REPLACES:

TRUCK-LITE® 10205R
PETERSON® 143R
GROTE® 45832



WA#:WA20208A

Amber 2" Clr/Mrkr Lamp

REPLACES:

TRUCK-LITE® 30200Y
PETERSON® 146A
GROTE® 45823

WA#:WA20208R

Red 2" Clr/Mrkr Lamp

REPLACES:

TRUCK-LITE® 30200R
PETERSON® 146R
GROTE® 45822

All lights meet D.O.T. requirements FMVSS 108 and pass rain, temperature and humidity, vibration, shock, aging and salt spray testing as per customer's specifications.

ELECTRICAL COMPONENTS - REPLACEMENT LIGHTING ...CONTINUED



WA#:WA53874

3-Wire Plug, Straight

REPLACES:

TRUCK-LITE® 60250R
PETERSON® 420R-3
GROTE® 53962



WA#:WA538751

2-Wire Plug, Straight

REPLACES:

TRUCK-LITE® 94902
PETERSON® 142-49
GROTE® -----



WA#:WA538752

2-Wire Plug, 90 Degree

REPLACES:

TRUCK-LITE® 94924
PETERSON® -----
GROTE® 67050



WA#:WA55206-1

2.5" Open Grommet

REPLACES:

TRUCK-LITE® 107000
PETERSON® 143-18
GROTE® 91400

WA#:WA55208

2" Open Grommet

REPLACES:

TRUCK-LITE® 30700
PETERSON® 146-18
GROTE® 92120

WA#:WA55227

4" Open Grommet

REPLACES:

TRUCK-LITE® 40700
PETERSON® 426-18
GROTE® 91740

All lights meet D.O.T. requirements FMVSS 108 and pass rain, temperature and humidity, vibration, shock, aging and salt spray testing as per customer's specifications.

INSTALLATION GUIDE & WARRANTY SECTION



INSTALLATION GUIDE - ALL STARTERS

This installation guide will be included in ALL starter motor shipments.

Note!



Stop!!

*Before installing...this electrical unit you must disconnect the **black (ground)** cable from the negative battery post! Failure to do so could result in serious personal injury.*

For best results when installing a brand new starter please make the connections in the following sequence.



1. Connect **ground** cable to the post marked with the **Black** ground tab indicator.
2. Connect **power** cable to the post marked with the **Red** power tab indicator.
3. Connect the **key switch** cable to the post marked with the **Green** tab indicator.
4. Double Check all electrical connections to assure proper conductivity. **DO NOT OVER TORQUE!!** Broken or damaged connections will cause premature failure and void warranty.
5. Double check all bolts securing the unit to the engine. Make sure these fasteners are torqued properly.
6. Wire brush the ground cable connection and post; reconnect the cable to the negative post on the battery and tighten.



Important note...Installing this unit without first disconnecting the cable from the negative ground post may cause premature power surges, causing the unit to fail. In these cases warranty will be voided.

INSTALLATION GUIDE - MID-RANGE ALTERNATORS

This installation guide will be included in ALL mid-range alternator shipments.

<p>Note!</p> 	<p style="text-align: center;">Stop!!</p> <p><i>Before installing...this electrical unit you must disconnect the black (ground) cable from the negative battery post! Failure to do so could result in serious personal injury.</i></p>
<p style="text-align: center;"><u>For best results when installing a brand new alternator please make the connections in the following sequence.</u></p>	
<p style="text-align: center;">MID-RANGE® ALTERNATOR APPLICATIONS ONLY</p>	
<ol style="list-style-type: none">1. Connect power cable to the post marked with the Red power tab indicator.2. If so equipped, connect the male wire harness plug into the receptacle located either on the rear or side of the alternator.3. Double check all electrical connections to assure proper conductivity. <u>DO NOT OVER TORQUE!!</u> Broken or damaged connections will cause premature failure and void warranty.4. Double check all bolts securing the unit to the engine. Make sure these fasteners are torqued properly.5. Wire brush the ground cable connection and post; reconnect the cable to the negative post on the battery and tighten. 	
<p><u>Important note...Installing this unit without first disconnecting the cable from the negative ground post may cause premature power surges, causing the unit to fail. In these cases warranty will be voided.</u></p>	

INSTALLATION GUIDE - DELCO®-TYPE ALTERNATORS

This installation guide will be included in ALL Delco®-type alternator shipments.

Stop!!
<p>Note!</p>  <p><i>Before installing...this electrical unit you must disconnect the black (ground) cable from the negative battery post! Failure to do so could result in serious personal injury.</i></p>
<p><u>For best results when installing a brand new alternator please make the connections in the following sequence.</u></p>
DELCO®-STYLE ALTERNATORS ONLY
<ol style="list-style-type: none">1. Connect power cable to the post marked with the Red power tab indicator. On some units this post could be marked BAT or POS.2. Delco® type alternators are generally case grounded through the mounting bracket to the frame or engine.  <i>If replacing a Leece Neville® type, reuse the existing ground strap and attach to the Delco® unit where indicated on their housing.</i>3. If so equipped, connect the cable for the relay switch, indicator light or tachometer to the post with the Blue tab indicator.4. Double Check all electrical connections to assure proper conductivity. <u>DO NOT OVER TORQUE!!</u> Broken or damaged connections will cause premature failure and void warranty.5. Double check all bolts securing the unit to the engine. Make sure these fasteners are torqued properly.6. Wire brush the ground cable connection and post; reconnect the cable to the negative post on the battery and tighten. 
<p><u>Important note...Installing this unit without first disconnecting the cable from the negative ground post may cause premature power surges, causing the unit to fail. In these cases warranty will be voided.</u></p>

INSTALLATION GUIDE - LEECE-NEVILLE®-TYPE ALTERNATORS

This installation guide will be included in ALL Leece-Neville®-type alternator shipments.

Stop!!

Note!



Before installing... this electrical unit you must disconnect the **black (ground)** cable from the negative battery post! Failure to do so could result in serious personal injury.

For best results when installing a brand new alternator please make the connections in the following sequence.

LEECE-NEVILLE® ALTERNATOR ONLY

1. Connect **power** cable to the post marked with the **Red** power tab indicator.
2. Connect the **black** tab indicator. If replacing a Delco® type with this unit, you must make sure to place a ground strap to the unit as indicated.
3. If so equipped, connect the cable for the relay switch, indicator light or tachometer to the post with the **Blue** tab indicator.
4. Double check all electrical connections to assure proper conductivity. **DO NOT OVER TORQUE!!** Broken or damaged connections will cause premature failure and void warranty.
5. Double check all bolts securing the unit to the engine. Make sure these fasteners are torqued properly.
6. Wire brush the ground cable connection and post; reconnect the cable to the negative post on the battery and tighten.



Important note... Installing this unit without first disconnecting the cable from the negative ground post may cause premature power surges, causing the unit to fail. **In these cases warranty will be voided.**



WARRANTY

MIDWEST TRUCK & AUTO PARTS, INC.TM warrants that all new MIDWEST TRUCK & AUTO PARTS, INC.TM, except as otherwise provided herein, will be free from defects in material and workmanship for the first 6 months or 50,000 miles, whichever occurs first, with the sole exception of its heavy duty alternators and starters, the warranty for which shall extend for the first year, with no mileage limit. THIS WARRANTY WILL NOT APPLY IF ANY PART HAS BEEN MODIFIED, DAMAGED OR IS DEFECTIVE AS A RESULT OF ANY ACCIDENT, MISUSE, USE IN COMPETITIVE APPLICATIONS, IMPROPER INSTALLATION, NEGLIGENCE, REPAIR OR ALTERATION.

COMPETITION PARTS ARE SOLD "AS IS", WITHOUT ANY WARRANTY WHATSOEVER. IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE EXCLUDED. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF SUCH PARTS IS WITH THE BUYER. SHOULD SUCH PARTS PROVE DEFECTIVE FOLLOWING THEIR PURCHASE, THE BUYER, AND NOT THE MANUFACTURER, DISTRIBUTOR OR RETAILER, ASSUMES THE ENTIRE COST OF ALL NECESSARY SERVICING OR REPAIR.

The MIDWEST TRUCK & AUTO PARTS, INC.TM parts warranty is voided if the part is used for competition or if it has been modified.

To make a warranty claim on parts used in non-competitive applications, distributors should contact MIDWEST TRUCK & AUTO PARTS, INC.TM distributor for a Return Goods Authorization (RGA) Number. No returns will be accepted without an RGA Number. All parts should be returned to MIDWEST TRUCK & AUTO PARTS, INC.TM, freight prepaid. MIDWEST TRUCK & AUTO PARTS, INC.TM will issue a credit equal to the original purchase price for all defective parts covered by this warranty. In the event that a warranty claim cannot be substantiated by MIDWEST TRUCK & AUTO PARTS, INC.TM, the parts will be returned to the customer, freight collect.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND IN NO EVENT WILL MIDWEST BE LIABLE FOR INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES INCLUDING, BUT NOT LIMITED TO, ANY LABOR COSTS.



WARRANTY CLAIM FORM

ELECTRICAL UNIT

Please send a copy of this document in the **RETURN BOX WITH THE UNIT.**
Failure to do so may cause credit for the return to be *delayed* or *not issued!*

Date: _____

RGA Number: _____ Invoice -or- Sales Order Number: _____

CONTACT INFORMATION - PLEASE PRINT

Contact Name: _____ Distributor: _____

Street Address: _____ City/State/Zip: _____

Phone: _____ Ext: _____ Fax: _____

Email Address: _____

UNIT INFORMATION

Type of Unit: ALTERNATOR STARTER

Part Number: _____ Date Installed: _____

Type of Engine: _____ DIESEL _____ GASOLINE _____ NATURAL GAS

Type of Vehicle: _____ TRUCK _____ CONSTRUCTION _____ AG _____ BUS

REASON FOR RETURN - Please Select From the Options Below

STARTER

_____ Will Not Fit Engine _____ Will Not Start _____ Broken Studs or Contacts

_____ Stays Engaged _____ Burned Out

_____ Other: _____

GENERAL NOTE:

Starting motors claimed as warranty that fail due to a low voltage condition in the batteries will not be honored.

ALTERNATOR

_____ Failed on Turn _____ Overcharges _____ Fails to Charge Once Installed

_____ Burned Out _____ Broken Studs or Contacts

_____ Other: _____

GENERAL NOTE:

Alternators claimed as warranty that fail due to cross wiring (causing improper polarization) will not be honored.

Please send a copy of this document in the **RETURN BOX WITH THE UNIT.**
Failure to do so may cause credit for the return to be *delayed* or *not issued!*

