

Alliance Batteries

Alliance Group 31 batteries are specifically designed for commercial service applications such as starting, dual purpose and deep-cycle.



GENERAL PRODUCT INFORMATION

- The battery's most important function is to provide power to crank and start the engine. Due to each engine's unique starting characteristics, it is impossible to use a simple rule to estimate the required battery capacity; **therefore, you must rely on the BCI Replacement Data Book, or owner's manual, to choose the correct CCA rating.** The two ratings are Cold Cranking Amps (CCA) and Cranking Amps (CA).

Never select a quality grade level lower than the O.E. CCA rating. Older vehicles, extra accessories and severe climatic conditions (extreme hot or cold) call for a more powerful battery. In these cases, always select a level above the O.E. requirement. Battery performance is measured at two different temperatures 0° F. (CCAs) and 32° F. (CAs). **When comparing ratings, always compare CCAs to CCAs and CAs to CAs – never mix the two!**

Always select a battery by CAs or CCAs – never by months of warranty! You can never have too many CCAs, but too few will shorten battery life because the underrated battery must work much harder.

- Today's trucks demand much more power to operate all the on-board auxiliary equipment. Typical starting batteries are designed to deliver quick bursts of electricity for engine starting, but operating this new auxiliary equipment calls for long, slow power draws over a period of hours – or even days – often when the engine is off. Starting batteries can't handle these increased power requirements, and they may wear out in short order.

Alliance batteries provide all the cold cranking power needed for starting in any climate, plus abundant deep cycle power for typical auxiliary demands.

PART NUMBER CROSS REFERENCE

DUAL PURPOSE BATTERY PART NUMBERS

Alliance	Delco	Delphi	Douglas	Exide	Champion	Interstate	Powervolt	Trojan
EPM/AEDP31CS	1150	BU-31HC-700 S	—	HC-31D	PX31650C	—	—	—
EPM/AEDP31PCS	1151	BU-31HC-700 P	—	HC-31E	PC31650A	—	—	—
EPM/AE7T31	—	—	—	—	—	31-ECL	—	—
EPM/AE7T31P	—	—	—	—	—	—	—	—

STARTING BATTERY PART NUMBERS

Alliance	Delco	Delphi	Douglas	Exide	Champion	Interstate	Powervolt	Trojan
EPM/AE931MF	1200	BU-31-600 S	31-650T	COM-31D	—	31-VHD	V31S-5	—
EPM/AE931PMF	1201	BU-31-600 P	31-650	COM-31E	—	31P-VHD	V31P-5	—
EPM/AE1031MF	1110	BU-31-750 S	31-750T	—	PX31750C	31-LHD	VMF31S-5	C31HD-2
EPM/AE1031PMF	1111	BU-31-750 P	31-750	HP-31D	—	31P-LHD	VMF31P-5	C31HE-2
EPM/AE1131MF	31-900CT	BU-31-950 S	31-950T	HP-31E	PX31925C	31-MHD	VMF31S-7	—
EPM/AE1131PMF	31-901CT	BU-31-950 P	31-950	—	PX31925C	31P-MHD	VMF31P-7	—
EPM/AE1131XMF	—	—	—	—	—	—	V31S-7G	C31XHD-2
EPM/AE1131XPMF	—	—	—	—	—	—	V31P-7G	C31XHE-2
EPM/AE1231MF	—	—	—	—	—	—	—	—
EPM/AE1231PMF	—	—	—	—	—	—	—	—

TOP SELLERS

GROUP 31 BATTERIES

Part Number	Description	Part Number	Description
EPM/AE1031MF	760CCA, 170RC, Stud Type	EPM/AE1131MF	925CCA, 170RC, Stud Type
EPM/AE7T31	700CCA, 190RC, Stud Type	EPM/AE1231MF	1125CCA, 195RC, Stud Type
EPM/AE1131XMF	1000CCA, 185RC, Stud Type	EPM/AE1031PMF	760CCA, 170RC, Post Type
EPM/AEDP31CS	650CCA, 180RC, Stud Type	EPM/AE1131XPMF	1000CCA, 185RC, Post Type
EPM/AE931MF	650CCA, 145RC, Stud Type		

FEATURES & BENEFITS

- **Calcium/Calcium Maintenance-Free Design** – Significantly reduces maintenance costs and shortened life due to over/under watering.
- **Specially designed leak resistant cover with a tilt angle of 45 degrees** – Keeps battery compartments clean and dry even at severe tilt angles.
- **Covered Screw-in Vents** – Maintenance-free but not maintenance impossible if battery is overcharged.
- **Full Frame Compu-cast Grids** – No sharp X metal grid wires to cause short circuits.
- **Heavy-duty Plates with High Density Oxide** – To withstand “high cycling” type service such as P&D business class and step vans.
- **Special Glass Glued Envelope Separators** – Glued fiberglass strands act like “rebars” in concrete, locking the active material onto the plate for longer life.
- **Anchor Locked Elements** – The elements are locked into place at the bottom, to resist the damaging effects of pounding vibration typical of commercial service.
- **Quality Control** – All Alliance batteries must pass more than 250 quality control checks during manufacture, ensuring superior performance and long life. And Alliance Batteries are made in the U.S.A., your assurance of quality.

QUICK REFERENCE CHART

BATTERY TYPE BY APPLICATION

SleeperCab	Minimum of four (4) DUAL PURPOSE BATTERIES with a low voltage disconnect or battery management system.
Day Cab Line Haul	STARTING BATTERY with the number of batteries determined by the CCA capacity.
Day Cab Delivery	DUAL PURPOSE BATTERIES with the number of batteries per truck determined by the engine CCA requirement.
P&D	DUAL PURPOSE BATTERIES with the number of batteries per truck determined by the engine CCA requirement.
Reefer Unit	DUAL PURPOSE BATTERY

WARRANTY

Alliance Parts are backed by a one-year unlimited mile warranty, with coverage available throughout North America.



Did you know lead-acid batteries are virtually 100% recyclable? They have a higher recycling rate than other waste products such as aluminum, paper, glass and plastic. Be sure to return your scrap lead-acid battery to a retailer. In most states it is illegal to discard a battery in the trash.

PERFORMANCE ADVANTAGES

In every significant test, the performance differences between Calcium Maintenance-Free vs Hybrid and Low Antimony batteries are dramatic. In addition, they offer all of these important advantages:

- Premium Envelope Separators
- Computer-Controlled Grids
- Humidity-Cured Plates
- Over 250 Quality Control Checks
- Highest CCA Ratings
- Demineralized Electrolyte
- Computer-Controlled Plates
- Radial “Power-Path” Grids
- Temperature-Controlled Formation

Notes:

“Calcium Maintenance-Free” is pure calcium, with no antimony content in the grids or plates.

“Hybrid” is a battery with one calcium and one low antimony plate.

“Low Antimony” is a battery with 2 1/2% antimony content.

BATTERY SAFETY TIPS

- Be careful! Batteries produce explosive gases.
- Always wear safety glasses when working on or near batteries.
- Keep sparks, flames and cigarettes away from batteries at all times.
- Never lean over a battery when jump starting or performing other maintenance.
- Follow the proper instructions found on your booster cable set or in the vehicle owner’s manual.

PRODUCT AVAILABILITY

To locate your nearest dealer, please visit www.freightliner.com.

WHEN YOU NEED MORE INFORMATION...

The catalogs listed below are available from your local dealer.

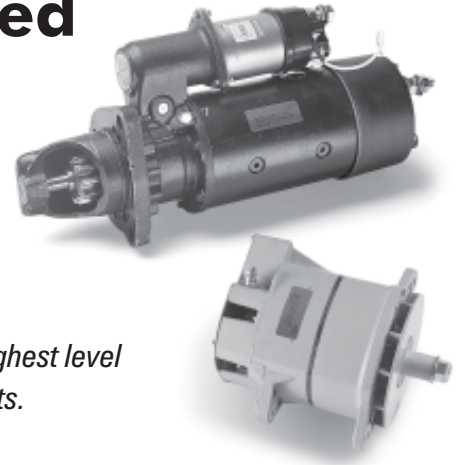
Catalog Number	Description
0125	Battery Application Data Guide
0007	Specification Guide

WHEN REPLACING BATTERIES, CONSIDER THESE ADDITIONAL ITEMS

- Battery cables
- Battery boxes
- Starters
- Alternators
- Battery chargers
- Battery testers



Alliance Remanufactured Heavy-Duty Starters and Alternators



- Alliance reman parts are torn down, cleaned, tested, reassembled and tested again. A typical rebuild is simply a fix of what is broken.
- Every Alliance heavy-duty alternator and starter is tested to assure the highest level of product quality. Each part is packaged and shipped with the test results.

APPLICATION DATA

PART NUMBERING SYSTEM

Alliance electrical part numbers utilize the ABP prefix:

All Starters & Alternators

- ABP** = Part number prefix (Alliance Parts)
- R** = Classification of part (R=Reman, N=New)
- 15** = Major component group (15=Alternators/Starters)

Example Starter Part No.: ABP/R15-42MT12V11T

- 42MT** = Starter model number designation (Delco 42MT)
- 12V** = Voltage (12 volt)
- 11T** = Number of teeth (11-tooth model)

Note: Some starter numbers may have additional characters to denote the following:

- OC** = Starter equipped with Over Crank Protection
- CT** = Starter equipped with Over Crank Protection and offset nose housing for Cat engine applications

Example Alternator Part No.: ABP/R15-21SI12V130A

- 21SI** = Alternator model number designation (Delco 21SI)
- 12V** = Voltage (12 Volt)
- 100A** = Amperage (130 Amp)

FEATURES & BENEFITS

COMPARISON OF COMPETITIVE PRODUCTS

ALLIANCE REMANUFACTURED	OTHER REBUILD (NON-OE) SOURCES
ISO-9000 CERTIFIED <ul style="list-style-type: none"> • Process control plans • Specifications • Failure Analysis • Documentation • Employee Training 	Most are not certified
EXTENSIVE FINAL TEST <ul style="list-style-type: none"> • 100% finished product testing • Every part shipped w/test results • High performance test standards • Load testing of starters and alternators 	Most are only "free spin" starters
INDIVIDUAL COMPONENT TESTING <ul style="list-style-type: none"> • Individual components tested prior to final assembly 	Minimum testing
100% REPLACEMENT ON MANY PARTS <ul style="list-style-type: none"> • Bearings • Oil Seals • Bushings • Oil Wicks • Numerous key components identified as typical failure mode 	Most parts are reused
ONE-YEAR, UNLIMITED NATIONWIDE WARRANTY	Local & limited warranty

PRODUCT AVAILABILITY

To locate your nearest dealer, please visit www.freightliner.com.

WARRANTY

Alliance Parts are backed by a one-year unlimited mile warranty, with coverage available throughout North America.

COMPETITIVE CROSS REFERENCE

Alliance Reman	Description	Delco (Reman)	Delco (New)	Haldex	Cummins Recon	Leece-Neville (New)	Ford Motorcraft	Detroit Diesel
ALTERNATORS								
ABP/R15-21SI12V145AX	Delco 21SI 12 Volt 145 Amp, I & R Universal terminal connections, coreless	10459051 10459187 10459462	19010156 19010180	RA121002X	3604667RX			10459133
ABP/R15-22SI12V130AX	Delco 22SI 12 Volt 130 Amp, I & R Universal terminal connections, coreless	10459189 10459212 10459292	19020302 19020304 19020381	RA122001X	3675229RX			
ABP/R15-22SI12V130AX	Replaces Delco 21SI 12 Volt 130 Amp	10459037 10459049	19010147 19010165	RA121001X	3604667RX	110-555		10459111
ABP/R15-22SI12V130AX	Replaces Delco 21SI 12 Volt 100 Amp	10459013	19010100 19010105 19011041 9010154 19010181	RA121000X	3604666RX			10459109
ABP/R15-33SI12V135AX	Delco 33SI 12 Volt 135 Amp, coreless	10459141 10459142	19011152 19011155 19011156 19011159 19011173		3675233RX			10459195
ABP/R15-33SI12V135A	Replaces Delco 30SI, 12 Volt 105 Amp	10459008 10459079 10459097 10459258 10459259	1117801 1117809 1117818	RA130001X	3603877RX 3604652RX			10459108
ABP/R15-34SI12V135QX	Delco 34SI 12 Volt 135 Amp, coreless	10459206 10459451	19011167 19011201					10459198
ABP/R15-34SI12V135PX	Delco 34SI 12 Volt 135 Amp, Pad Mount, coreless	10459278	19011177					10459278
ABP/R15-BBACK12V90A	Ford Blueback 12 Volt 90 Amp				3604675RX 3604674RX		D4HZ-10346-B E2HT-10300-GA E2HZ-10346-B FOHT-10300-JA	
ABP/R15-55512V130A	Leece-Neville 110-555 12 Volt 130 Amp, coreless	10459555			3675200RX	110-555		
ABP/R15-55512V145A	Leece-Neville 110-555 12 Volt 145 Amp, coreless	10459555			3675200RX	110-555		
ABP/R15-JB12V130A	Leece-Neville JB Series 12 Volt 130 Amp, coreless	10459022					2670LC 2680LCF 2700JB 2700LC	10459140
STARTERS								
ABP/R15-28MT12V10T	Delco 28MT 12 Volt 10-tooth, Cummins drive end	10465043	1113276	RS128000X	3604482RX 3604654RX 3916854R			10465407
ABP/R15-37MT12V10TA	Delco 37MT 12 Volt 10-tooth, Mtn hole 3/8", Solenoid Stud 1/2" insulated ground for universal application	10461225 10478831	1993886		3675164RX			10461197
ABP/R15-40MT12V11T	Delco 40MT 12 Volt 11-tooth, universal drive end	10461045	1114095 1114098	RS140001X	3603863RX			10461178
ABP/R15-42MT12V11T	Delco 42MT 12 Volt 11-tooth, universal drive end	10461052	1990352 1990363 1990468 10479072	RS142001X	3604322RX			10461126
ABP/R15-42MT12V11TOC	Delco 42MT 12 Volt 11-tooth universal drive end w/Over Crank Protection	10461055	1990355	RS142005X	3604665RX			10461183
ABP/R15-42MT12V11TCT	Delco 42MT 12 Volt 11-tooth universal drive end w/Over Crank Protection, Cat application w/offset drive end housing	10461075	1990489	RS142022X	3604665RX			10461185