CATERPILLAR® BATTERIES

Cross Reference Guide

2004 EDITION

CATERPILLAR®

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HOW TO USE THIS APPLICATION GUIDE

This guide is intended to help select the proper battery or an alternate recommendation. The application section lists the **minimum** cold cranking amps @ 0°F and the recommended and optional replacement battery part numbers. The manufacturers are listed alphabetically. For Passenger Cars, Light Trucks and Vans, the applications are listed by year and engine size. The remaining vehicles and equipment are listed by model and/or engine numbers. To assure the proper replacement battery:

1. **Find the correct manufacturer.**
2. **Determine the year and/or model.**
3. **Select the correct model or engine.**
4. **Read across to the part number and, if applicable, an optional part number.**
5. **Pay close attention to any footnoted information.**

If you are specifying a battery to a customer who drives in extreme weather conditions and/or has a vehicle with many electrical options, **suggest a battery with more cold cranking amps than the minimum that is listed.** Batteries with more cold cranking amps will not harm the vehicle or equipment; however, batteries with fewer cold cranking amps may fail prematurely.

ABBREVIATIONS USED IN THIS GUIDE

AC	Air Conditioning	elec.	electric	No.	Number
A-C	Allis Chalmers	eng.	engine	O.E.	Original Equipment
Alt.	Altitude	ex.	except	OHC	Over Head Cam
AT	Automatic Transmission	Fed.	Federal	OHV	Over Head Valve
BCI	Battery Council International	Fig.	Figure	opt.	optional
Calif.	California	FI	Fuel Injection	pkg.	package
carb.	carburetor	Fla.	Florida	PS	Power Steering
CAT.	Caterpillar	FWD	Front Wheel Drive	PTO	Power Take Off
cc	cubic centimeter	GM	General Motors	RWD	Rear Wheel Drive
CCA	Cold Cranking Amps (0°F)	GSE	Gas Starting Engine	SAE	Post-type terminal
CFI	Central Fire Injection	HBL	Heated Back Light (rear window defrost)	S/C	Supercharged
comp.	compression	H.D.	Heavy Duty	SEO	Special Electrical Option
Cont.	Continental	H.O.	High Output	SGB	Sound-Guard Body
Conv.	Convertible	HP	Horsepower	SHO	Special High Output Engine
cyl.	cylinder	HSC	High Swirl Combustion	SOHC	Single Over Head Cam
DD	Detroit Diesel	IHC	International Harvester Co.	TBI	Throttle Body Injection
DS	Direct Electric Start	ind.	industrial	V	Venturi
DIN	Deutsche Industrie Normen	JD	John Deere	w/	with
DOHC	Dual Over Head Cam	L	Liter	w/o	without
EFI	Electronic Fuel Injection	LPG	Liquified Petroleum Gas	Wisc.	Wisconsin
ETR	Electronic Tuning Radio	MFI	Multi-Port Fuel Injection	2WD	2 Wheel Drive
		MT	Manual Transmission	4WD	4 Wheel Drive

BEST FIT ESTIMATE

Some equipment manufacturers do not provide complete replacement battery information. In some cases replacement battery size must be estimated using the best information available to guide the battery replacement data guide user. However, **the user is cautioned that the size stated is only an estimate.** Size and terminal post arrangements may vary from the original equipment manufacturer. Therefore, the user should obtain specific battery replacement size information from the owner's manual or from the dealer or equipment manufacturer. **Caution should always be exercised to assure proper cable hook-up and sufficient post clearance before closing the hood or battery cover.** Otherwise electrical system damage and/or **personal injury** could result.

BATTERY RATINGS

COLD CRANKING AMPS @ 0°F

The primary function of the battery is to provide power to crank the engine during starting. This process requires a large discharge of amperes over a short period of time. Therefore, the cold cranking performance rating is defined as **the discharge load in amperes which a new, fully charged battery at 0°F can deliver for 30 seconds and maintain a minimum voltage of 7.2 volts for a 12-volt battery, 3.6 volts for a 6-volt battery.** The cold cranking performance ratings listed in the application section of the guide are the **minimum** recommendation for each application. There is no warranty level or battery life expectancy expressed or implied by these ratings.

CRANKING AMPS @ 32°F

The cranking performance rating is defined as the discharge load in amperes which a new, fully charged battery **at a temperature of 32°F** can deliver for 30 seconds and maintain a minimum voltage of 7.2 volts for a 12-volt battery or 3.6 volts for a 6-volt battery.

RESERVE CAPACITY

Another function of the battery is to provide emergency power for ignition, lights, etc., in the event of failure of the vehicle's battery recharging system. The reserve capacity rating is defined as **the number of minutes a new, fully charged battery at 80°F can be discharged at 25 amperes** and maintain a minimum voltage of 10.5 volts for a 12-volt battery or 5.25 volts for a 6-volt battery.

HEAT SHIELDS

Protective heat shields are being used around batteries with increasing frequency to protect them from premature failure due to high underhood temperatures. **Failure to replace the heat shield after installation of a replacement battery may reduce its electrical performance and life.**