

Delco Battery

7A-100

MAY, 1981

Application and Specification Charts Parts & Accessories

Supersedes 7A-100
Dated December, 1978
7A-1980
Dated May, 1980
7A-1981
Dated Oct., 1980

WEATHERLY 540



7A-100

DELCO FREEDOM II BATTERIES

... the others can't match 'em.



AC-DELCO'S "INSIDE STORY" of even tougher Freedom II batteries combines the chemical, mechanical and electrical changes throughout the battery. These changes are what give Freedom II more durability and starting efficiency than the original Freedoms.

Changes include: new grid design with nearly one-third more contact area for increased output; improved separator envelope material for less internal resistance; new "riser bar" cast-on plate straps for more current conductivity and improved vibration resistance; higher density active material on the plates for more cycle life; and new case design on some models with increased shock protection and service life. Other changes include new cold-forged side terminal design for resistance to overtorque and lead, plus new information labels that provide test load amps to simplify checking.

DELCO FREEDOM II BATTERIES – Just itchin' to get something started

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ABBREVIATIONS & SYMBOLS

A.C. Air Conditioning	M Mechanical
AMPS Amperes	MF Maintenance-Free
A.T. Automatic Transmission	MM Millimeters
Batt. Battery	M.T. Manual Transmission
BBL. Barrel	Opt. Optional
BCI Battery Council International	P Plastic
CCA Cold Cranking Amps	PL Poly-life
Comm. Commercial	P.S. Power Steering
Comp. Compression	PVC Polyvinyl Chloride
Cyl. Cylinder	SAE Society Automotive Engineers
D.F.I. Digital Fuel Injection	ST Side Terminal
D.B. Double Insulation	Std. Standard
Eng. Engine	TP Top Post
FB Freedom Battery	TS Top Stud
H.B.L. Heated Back Light (Defogger)	"TTP" Thru-the-Partition Connectors
Hi-Cyc Hi-Cycle	TPWN Top Post/Wing Nut Combination
H:D. Heavy Duty	
Ign. Ignition	
Kg Kilograms	

BATTERY RATINGS

Cold Cranking Rating, usually expressed as Cold Cranking Amps (CCA) at 0°F (-18°C), is now the established rating system by SAE for battery starting power. It replaces the former high rate voltage and time ratings.

Reserve Capacity Rating, often called Reserve Minutes, represents the approximate time in minutes it is possible to travel at night with battery ignition and minimum electrical load, but

without generator output. This rating replaces the old 20-hour capacity rating and more accurately represents the electrical load which must be supplied by the battery in the event of a charging system failure. In the case of recreational vehicle and marine uses (High-Cycle Freedom batteries), they can be considered an approximation of continuous operating time between recharges.

CHEVROLET

YEAR	APPLICATION	BOLD TYPE DENOTES RECOMMENDED OEM REPLACEMENT										
		FREEDOM II BATTERIES ^①				BCI Group Size		CONVENTIONAL BATTERIES ^①			BCI Group Size	
		60	50	40	30	TP	ST	"R"	"Y"	"Z"	TP	ST

(Includes Caprice, Impala & Estate Wgn.) (Cont'd.)

1965-63	All 6 Cyl., V8-283 wo/A.C.	55-60	55-50	55-40	55-30	22F	—	—	Y55	Z55	22F	—
	w/A.C.	59-60	59-50	59-40	59-30	24	—	R59	Y59	Z59	24	—
	V8-327, 396, 409 (Exc. 1965 V8-409 w/Hyd. Lifters)	59-60	59-50	59-40	59-30	24	—	R59	Y59	Z59	24	—
	All H.D. (Exc. Police & Taxi) . . .	89-60	89-50	89-40	89-30	—	74	R89S	Y89	—	—	74
	H.D. Police & Taxi	89-60	89-50	89-40	89-30	—	74	R89W	Y89	—	—	74
Opt. H.D.	1059	—	—	—	24	—	959	—	—	—	24T	—
1962	V8 (Large)	59-60	59-50	59-40	59-30	24	—	R59	Y59	Z59	24	—
1962-55	All (Exc. Large V8 or w/A.C.) . .	59-60	59-50	59-40	59-30	24	—	R59	Y59	Z59	24	—
1961-57	Opt. H.D.	59-60	59-50	59-40	59-30	24	—	R59	Y59	Z59	24	—
1954-40	All (6 Volt)	—	—	—	—	—	—	—	413	Z13	1	—

CAMARO

1981	V6-229 & 231	83-60	83-50	—	—	—	70	—	—	—	—	—
	V8-267, 301TC, 305 & 350	85A-60	85-50	—	—	—	71	—	—	—	—	—
	All Opt.	87A-60	87-50	87-40	—	—	73	—	—	—	—	—
1980	V6-231	85-60	85-50	—	—	—	71	—	—	—	—	—
	V8-267, 301TC, 305 & 350	85-60	85-50	—	—	—	71	—	—	—	—	—
	All Opt.	89-60	89-50	89-40	89-30	—	74	—	—	—	—	—
1979-78	L6-250	85-60	85-50	—	—	—	71	—	—	—	—	—
	V8-305, 350	85-60	85-50	—	—	—	71	—	—	—	—	—
	All Opt.	89-60	89-50	89-40	89-30	—	74	—	—	—	—	—
1977-76	All 6 Cyl.	87-60	87-50	87-40	—	—	73	R87	Y87	Z87	—	72
	V8-305, 350	87-60	87-50	87-40	—	—	73	R87	Y87	Z87	—	72
	All Opt.	89-60	89-50	89-40	89-30	—	74	R89W	Y89	Z89	—	74
1975-74	All	87-60	87-50	87-40	—	—	73	R87	Y87	Z87	—	72
1973-71	All 6 Cyl.	87-60	87-50	87-40	—	—	73	R87	Y87	Z87	—	72
	V8-307, 350, 402	89-60	89-50	89-40	89-30	—	74	R89	Y89	Z89	—	74
1973-70	H.D.	89-60	89-50	89-40	89-30	—	74	R89W	Y89	—	—	74
1970	6 Cyl., V8-307	87-60	87-50	87-40	—	—	73	R87	Y87	Z87	—	72
	V8-350, 400 M	89-60	89-50	89-40	89-30	—	74	R89	Y89	Z89	—	74
1969	All 6 Cyl. & V8-302	87-60	87-50	87-40	—	—	73	R87	Y87	Z87	—	72
	V8-327, 350, 396	89-60	89-50	89-40	89-30	—	74	R89	Y89	Z89	—	74
	H.D.	89-60	89-50	89-40	89-30	—	74	R89S	Y89	Z89	—	74
	Opt. H.D.	1059	—	—	—	24	—	959	—	—	—	24T
1968-67	6 Cyl.	55-60	55-50	55-40	55-30	22F	—	—	Y55	Z55	22F	—
	V8	59-60	59-50	59-40	59-30	24	—	R59	Y59	Z59	24	—
	Opt. H.D.	1059	—	—	—	24	—	R59	—	—	—	24T

CAVALIER

1982	Std.	83-60	83-50	—	—	—	70	—	—	—	—	—
	Opt.	87A-60	87-50	87-40	—	—	73	—	—	—	—	—

▪ Freedom battery equivalent to OEM replacement

▲ To retrofit cable ends from top to side terminal use Pkg. 1846855 as shown on page 109.

① Recommended battery design for new car starting performance designated in bold face type. For severe service, replacement batteries should have a cold cranking capacity equal to or greater than original equipment.