



REFERENCE GUIDE

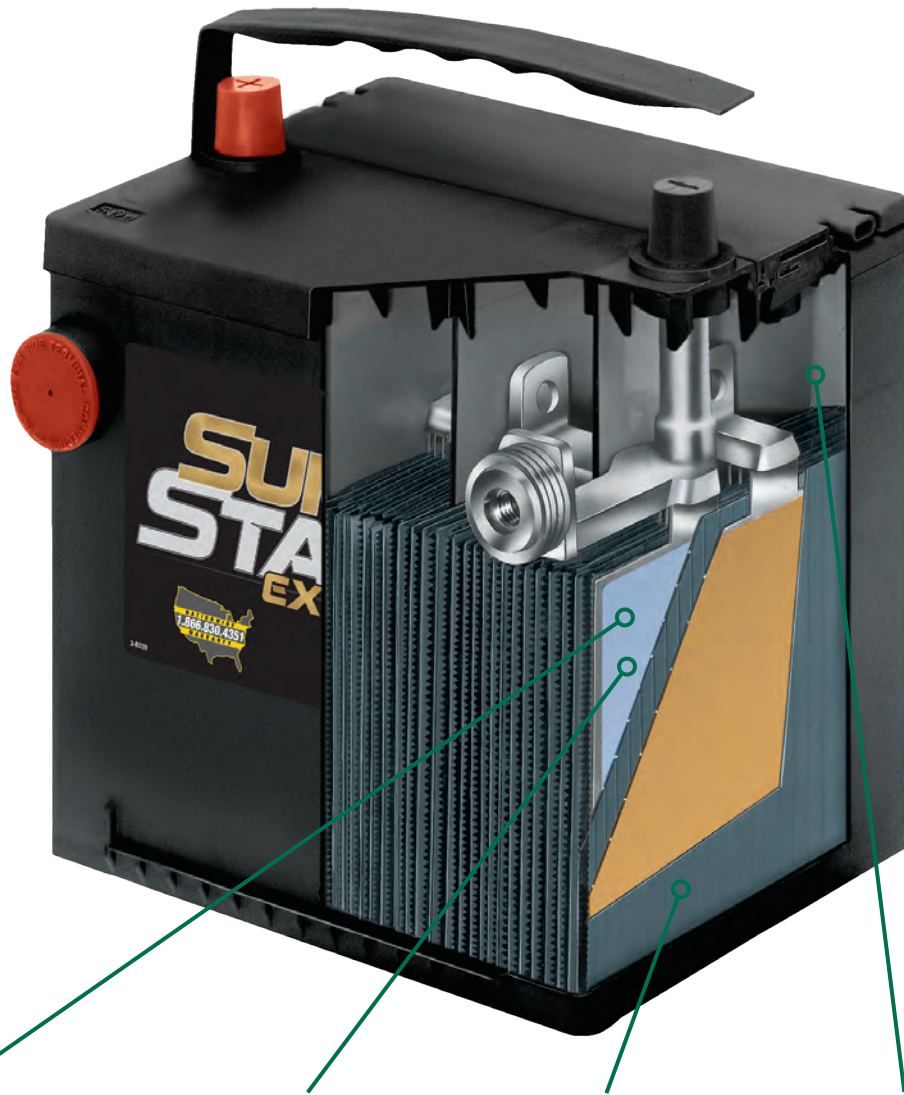
Volume 4



BATTERY QUICK REFERENCE

SUPER START[®] EXTREME

Over 250 Quality Control Checks



**SPECIALLY DESIGNED
REINFORCED "FULL
FRAME GRIDS"**

Retards grid growth and internal shorting for longer life in higher temperatures and extreme conditions.

**HEAVIER GRID AND
PLATE DESIGN**

Provides longest life with twice the wire diameter of typical grids.

**SPECIAL NEGATIVE
ENVELOPE
SEPARATORS**

Reduces short circuits due to normal plate shedding and growth.

**ADDED
ELECTROLYTE
RESERVOIR**

Retards plate dry out for longer maintenance-free life.

PREMIUM QUALITY SUPERIOR PERFORMANCE MAXIMUM LIFE

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NATIONWIDE, TOLL-FREE WARRANTY ASSISTANCE

Built Into Every Super Start Battery We Sell

All Super Start Batteries come with nationwide, toll-free warranty assistance. Super Start works with a nationwide network of authorized warranty facilities. In the event a Super Start battery fails and the customer's car is over 25 miles from your shop, the Super Start Warranty Administrator will locate the closest facility for your customer. Your customer suffers no expense for warrantable repairs.

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SUPER START PREMIUM BATTERIES

Feature full frame grids and premium envelope separators to provide extended service and improve performance.

- Tear and puncture resistant envelope separators which completely protect the plates
- Full frame plate structure withstands severe service demands
- Solid, direct current welds extend performance and the efficiency of the battery's current transfer
- Enhanced crystallization of the active material extends performance levels over time.
- Revolutionary paste adhesion techniques deliver better performance



Compu-Cast™ or Power Frame™ patented power path grids deliver maximum starting power

Maximum capacity electrolyte reservoirs

Patented cell connector design increases current flow

Deep pocket plate separators eliminates shorting

BATTERIES

Domestic



Medium-Duty Truck



Import



POWER PERFORMANCE RELIABILITY



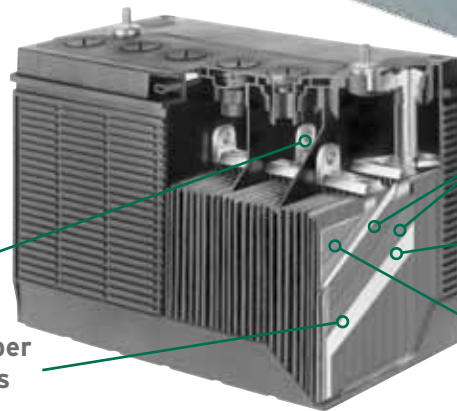
Super Start Premium - 12 Volt Automotive/LTV

BCI Group #	Part #	Part #	Cranking AMPS (CA) @ 32° F	Cold Cranking AMPS (CCA) @ 0° F	Reserve Capacity @ 80° F	Dimensions L x W x H
24	SSB 24-72	SSB 24-72J	750	600	110	10-3/4 x 6-3/4 x 9
24F	SSB 24R72	SSB 24R72J	750	600	110	10-5/8 x 6-3/4 x 9
25	SSB 25-72	SSB 25-72J	675	550	90	9 x 6-7/8 x 8-7/8
26R		SSB 26R72J	720	575	81	8-3/4 x 6-3/4 x 8
27	SSB 27-72	SSB 27-72J	1000	810	140	12 x 6-3/4 x 9
27F	SSB 27R72	SSB 27R72J	860	710	120	12-3/8 x 6-3/4 x 9
34	SSB 34-72	SSB 34-72J	820	690	110	10-3/4 x 6-7/8 x 8
35	SSB 35-72	SSB 35-72J	675	550	90	9-3/4 x 6-7/8 x 8-7/8
36R	SSB 36R72	SSB 36R72J	800	650	120	10-1/4 x 7-15/16 x 7-3/16
40R	SSB 40R72	SSB 40R72J	740	590	105	11 x 6-15/16 x 6-15/16
41	SSB 41-72	SSB 41-72J	800	650	100	11-1/2 x 6-7/8 x 6-7/8
42	SSB 42-72	SSB 42-72J	740	590	85	9-9/16 x 6-7/8 x 6-7/8
47/90		SSB 47-72J	745	600	90	9-9/16 x 6-15/16 x 6-15/16
48/91		SSB 48-72J	875	700	120	11 x 6-15/16 x 6-15/16
49/93		SSB 49-72J	1000	850	155	13-15/16 x 6-15/16 x 6-15/16
50		SSB 50-72J	750	600	108	13-1/4 x 5-9/16 x 8-13/16
51	SSB 51-72	SSB 51-72J	590	475	70	9-3/8 x 5 x 8-3/4
51R	SSB 51R72	SSB 51R72J	590	475	70	9-3/8 x 5 x 8-3/4
56		SSB 56-72J	740	590	95	10-11/16 x 6 x 8-5/16
58	SSB 58-72	SSB 58-72J	725	580	85	10 x 7-1/4 x 6-7/8
59	SSB 59-72	SSB 59-72J	700	590	100	9-1/2 x 7-7/16 x 7-1/2
42/58R	SSB 58R72	SSB 58R72J	690	550	85	10 x 7-1/4 x 6-7/8
55/62	SSB 62-72		705	570	90	8-3/4 x 6 x 8-1/2
65	SSB 65-72	SSB 65-72J	845	675	110	12 x 7-3/8 x 7-5/8
75	SSB 75-72	SSB 75-72J	800	650	85	9-3/4 x 7 x 8-1/8
75/86	SSB 75/86-72	SSB 75/86-72J	820	690	90	9-3/4 x 7 x 7-1/4
78	SSB 78-72	SSB 78-72J	820	690	110	10-3/4 x 6-7/8 x 7-1/4
79		SSB 79-72J	1000	840	140	12-1/16 x 7-1/16 x 7-3/8
85	SSB 85-72	SSB 85-72J	775	650	110	9 x 6-7/8 x 8-1/8
86	SSB 86-72	SSB 86-72J	660	525	80	9 x 6-7/8 x 8-1/8
92	SSB 92-72	SSB 92-72J	780	650	130	12-1/2 x 6-7/8 x 6-7/8
95	SSB 95R72	SSB 95R72J	1020	850	190	15-1/2 x 6-7/8 x 7-1/2
96	SSB 96R72	SSB 96R72J	738	590	95	15-9/16 X 6-15/16-6-15/16
97R	SSB 97R72	SSB 97R72J	715	575	60AH	9-15/16 x 6-15/16 x 7-1/2
101		SSB 101-72J	810	650	110	10-1/4 X 7-1/16 X 6-15/160
121R	SSB 121R72	SSB 121R72J	750	600	110	8-1/4 X 7 X 8-1/2
124R	SSB 124R72	SSB 124R72J	810	670	110	10-1/4 x 6-7/8 x 8-3/8
151R	SSB 151R72		440	330	55	7-1/4 x 4-5/16 x 8-3/4
SPL	SSB MIATA	SSB MIATAJ	400	320	45	8-5/16 x 5-1/8 x 7-1/4

SUPER START AGM BATTERIES

Capable of both starting and accessory power. Ideal for on-board electronics, stereo systems, off-road vehicles and marine applications. No need to add water, very vibration resistant due to the tightly packed construction of the plates and separators.

- 100% maintenance-free
- Highly porous separators to lower resistance and increase power
- Safety relief valve system to control internal gas pressure
- Over 250 quality control checks to ensure performance and reliability



Heavy-Duty Tombstones with Straight Through-the-Partition Connectors

Super-Fine Micro-Fiber Glass Mat Separators

Compu-pasted Positive and Negative Plates

Positive Full-Frame Power Path Grids

Negative Full-Frame Compu-Cast Power Path Grids

Super Start AGM - 12 Volt Deep Cycle

BCI Group #	Part #	Cold Cranking AMPS (CCA) @ 0° F	20 AH Rate	Min @ 25 A	Dimensions L x W x H
22NF	SSB AGM22NF	350	55	95	9-3/8 x 5-1/2 x 9-1/4
24	SSB AGM24	525	79	145	10 7/8 x 6 3/4 x 9-7/8
27	SSB AGM27	580	92	185	12-3/4 x 6-3/4 x 9-7/8
31	SSB AGM31T	925	100	190	13 x 6-3/4 x 9-1/2
31	SSB AGM31DT	800	105	210	12-15/16 x 6-3/4 x 9-7/8
4D	SSB AGM4D	1110	198	413	20-3/4 x 8-1/2 x 10
4D	SSB AGM4D-T975	1110	198	413	20-3/4 x 8-1/2 x 10
8D	SSB AGM8D	1450	245	517	20-3/4 x 11 x 10
8D	SSB AGM8D-T904	1450	245	517	20-3/4 x 11 x 10
8D	SSB AGM8D-T975	1450	245	517	20-3/4 x 11 x 10
8AU1	SSB AGMU1 Wheelchair	200	32	54	7-3/4 x 5-1/8 x 7-1/4

BATTERIES

PERSONAL MOBILITY



SEMI-TRUCKS



INDUSTRIAL MACHINERY



Extreme & Extreme AGM Batteries

SUPER START EXTREME BATTERIES

Delivers maximum performance and life in high under-hood temperatures and severe service conditions. The heavier grid design and specialized plate paste provide more power-per-pound. Added electrolyte capacity retards plate dry-out for long maintenance-free service.

- 36 month free replacement
- Especially designed to withstand high temperatures and severe climate conditions
- Maximum starting power for superior performance

SUPER START EXTREME AGM BATTERIES

- 100% maintenance-free
- Maximum starting power and reserve capacity for high-drain accessories
- Ideal for on-board electronics, stereo systems, off-road vehicles, marine applications
- No need to add water, very vibration resistant due to the tightly packed construction of the plates and separators
- Safety relief valve system to control internal gas pressure
- Over 250 quality control checks to ensure performance and reliability



Super Start Extreme - 12 Volt Automotive/LTV

BCI Group #	Part #	(J) Part #	Cranking AMPS (CA) @ 32° F	Cold Cranking AMPS (CCA) @ 0° F	Reserve Capacity @ 80° F	Dimensions L x W x H
24	SSB 24EXT	SSB 24EXTJ	875	700	130	10-3/4 x 6-3/4 x 9
24R	SSB 24REXT	SSB 24REXTJ	875	700	130	10-3/4 x 6-3/4 x 9
34/78	SSB 34/78EXT	SSB 34/78EXTJ	955	775	120	10-3/4 x 6-7/8 x 8
34	SSB 34EXT	SSB 34EXTJ	1000	800	110	10-3/4 x 6-7/8 x 8
35	SSB 35EXT	SSB 35EXTJ	750	600	90	9-3/4 x 6-7/8 x 8-7/8
47	SSB 47EXT	SSB 47EXTJ	750	600	90	9-9/16 x 6-7/8 x 7-1/2
48	SSB 48EXT	SSB 48EXTJ	875	700	120	11 x 6-7/8 x 7-1/2
49	SSB 49EXT	SSB 49EXTJ	1080	900	185	13-15/16 x 6-7/8 x 7-1/2
65	SSB 65EXTN	SSB 65EXTJ	1000	850	150	12 x 7-3/8 x 7-5/8
65	SSB 65EXTS	SSB 65EXTJ	885	750	140	12 x 7-3/8 x 7-5/8
75	SSB 75EXT	SSB 75EXTJ	820	690	90	9 x 7 x 7-1/4
78	SSB 78EXT		1020	850	115	10-3/4 x 6-7/8 x 7-1/4
86	SSB 86EXT	SSB 86EXTJ	800	640	100	9 x 6-7/8 x 8-1/8
90	SSB 90EXT		745	600	90	9-9/16 x 6-7/8 x 6-7/8
91	SSB 91EXT		875	700	100	11 x 6-7/8 x 6-7/8
93	SSB 93EXT		960	800	130	13-15/16 x 6-7/8 x 6-7/8
94R	SSB 94REXT	SSB 94REXTJ	910	765	135	12-7/16 x 6-7/8 x 7-1/2

Super Start Extreme AGM - 12 Volt Automotive

BCI Group #	Part #	Cranking AMPS (CA) @ 32° F	Cold Cranking AMPS (CCA) @ 0° F	Reserve Capacity @ 80° F	Dimensions L x W x H
34	SSB 34EXTAGM	970	750	120	10-3/4 x 6-7/8 x 8
34/78	SSB 34/78EXTAGM	860	750	120	10-3/4 x 6-7/8 x 8
48	SSB 48EXTAGM	875	760	120	11 x 6-7/8 x 7-1/2
49	SSB 49EXTAGM	1035	900	180	13-15/16 x 6-7/8 x 7-1/2
65	SSB 65EXTAGM	980	800	150	12 x 7-7/16 x 7-5/8
78	SSB 78EXTAGM	955	775	120	10-3/4 x 6-7/8 x 7-1/4

SUPER START COMMERCIAL BATTERIES

Super Start Commercial batteries assure reliable power for farm equipment, buses, line-haul trucks and industrial machinery. These heavy-duty commercial batteries deliver more power-per-pound. Anchor-locked elements with tightly-packed commercial plates and "deep pocket" envelope separators reduce the damaging effects of vibration and internal shorts. Super Start Commercial batteries are available in both 6, 8 and 12 volt group sizes.



Super Start - Electric Trailer Brake			
Part #	Volts	Nominal Capacity @ 20 HR	Dimensions L x W x H
SSB ES5-12	12	5 amp hour	3-9/16 x 2-13/16 x 4

Super Start - 12 Volt Sweeper/Scrubber Batteries			
Part #	20 AH Rate	6 AH Rate	Min @ 75 A
SSB 8C12	195	160	90
SSB 9C12	228	180	115

Super Start - Emergency Lighting, Electric Trailer Brake, Wheel Chair - Sealed Batteries				
BCI Group #	Part #	Volts	Nominal Capacity @ 20 HR	Dimensions L x W x H
	SSB ES4-6	6	4.5 amp hour	2-3/4 x 1-7/8 x 4
	SSB ES7-12	12	7 amp hour	5.94 x 2.56 x 3.7
	SSB ES8.2-6S	6	9 amp hour	3-7/8 x 2-1/4 x 4-11/16
	SSB ES12-12	12	12 amp hour	6 x 3-15/16 x 3-3/4
	SSB ES17-12	12	17 amp hour	7-3/16 x 3 x 6-5/8
	SSB ES26-12	12	26 amp hour	6.54 x 6.89 x 4.92
	SSB ES40-12	12	45 amp hour	7-13/16 x 6-9/16 x 6-3/4
U1	SSB AGMU1	12	32 amp hour	7-3/4 x 5-1/8 x 7-1/4

Super Start -12 Volt Ordinance/Military Vehicle					
BCI Group #	Part #	Cranking AMPS (CA) @ 32° F	Cold Cranking AMPS (CCA) @ 0° F	Reserve Capacity @ 80° F	Dimensions L x W x H
6TL	SSB 6TL	875	750	230	11-1/4 x 10-1/2 x 9

Super Start - 6 Volt Sweeper/Scrubber Batteries					
BCI Group #	Part #	20 AH Rate	6 AH Rate	Min @ 75 A	Dimensions L x W x H
901	SSB 8C11	235	190	120	11-3/4 x 7 x 11-1/2
902	SSB 8C6V	330	270	170	11-3/4 x 7 x 14-3/8
903	SSB 8L16	370	295	190	11-3/4 x 7 x 16-1/2
901	SSB 9C11	250	210	130	11-3/4 x 7 x 11-1/2

BATTERIES



Commercial Batteries

Super Start - 6 Volt Commercial Service

BCI Group #	Part #	(J) Part #	Cranking AMPS (CA) @ 32° F	Cold Cranking AMPS (CCA) @ 0° F	Reserve Capacity @ 80° F	Dimensions L x W x H
1	SSB 1	SSB 1J	800	630	140	9 x 6-7/8 x 8-3/4
2	SSB 2	SSB 2J	765	610	164	10-3/8 x 6-7/8 x 8-3/4
2E	SSB 2E		750	620	190	19-1/4 x 4 x 8-7/8
3EH	SSB 3EH	SSB 3EHJ	1000	875	250	19-1/4 x 4-1/4 x 10
4	SSB 4-4	SSB 4-4J	1000	950	250	12-1/2 x 6-7/8 x 9-1/2
5D	SSB 5D		1100	880	250	13-3/8 x 7-1/8 x 9-1/4
19L	SSB 19L		560	440	120	8-1/4 x 6-3/4 x 7-1/2

Super Start - 8 Volt Commercial Service

BCI Group #	Part #	(J) Part #	Cranking AMPS (CA) @ 32° F	Cold Cranking AMPS (CCA) @ 0° F	Reserve Capacity @ 80° F	Dimensions L x W x H
1	SSB 8V1	SSB 8V1J	650	520	102	8-7/8 x 6-3/4 x 8-7/8

Super Start - 12 Volt Commercial Service

BCI Group #	Part #	(J) Part #	Cranking AMPS (CA) @ 32° F	Cold Cranking AMPS (CCA) @ 0° F	Reserve Capacity @ 80° F	Dimensions L x W x H
3EE	SSB 3EE	SSB 3EEJ	485	400	90	19-1/4 x 4-1/4 x 9
3ET	SSB 3ET	SSB 3ETJ	575	460	105	19-1/4 x 4-1/4 x 9-7/8
4DLT	SSB 4DLT	SSB 4DLTJ	1000	850	250	20 x 8-1/8 x 8-1/8
4D	SSB 4D3		1280	1050	290	20-3/4 x 8-1/2 x 10-1/8
8D	SSB 8D2	SSB 8D2J	1340	1100	325	20-3/4 x 11 x 10
8D	SSB 8D2ST Threaded side post (transit bus)		1340	1100	325	21-1/2 x 11 x 10
8D	SSB 8D3	SSB 8D3J	1700	1400	430	20-3/4 x 11 x 10
8D	SSB 8D3ST Threaded side post (transit bus)		1700	1400	430	20-3/4 x 11 x 10
17TF	SSB 17TF		630	530	150	17 x 6-7/8 x 8
22NF	SSB 22NF	SSB 22NFS	430	360	58	9-3/8 x 5-1/2 x 9
28	SSB 28		685	550	100	10-1/4 x 6-3/4 x 9-1/2
29NF	SSB 29NF	SSB 29NFJ	465	390	100	12-7/8 x 5-1/2 x 9
30H	SSB 30H2	SSB 30H2J	825	660	160	13-1/2 x 6-3/16 x 9-1/4
31P	SSB 31-4 (Post)	SSB 31-4J (Post)	910	760	170	13 x 6-3/4 x 9-1/2
31	SSB 31-4T (Threaded)	SSB 31-4TJ (Threaded)	910	760	170	13 x 6-3/4 x 9-1/2
31P	SSB 31-5 (Post)	SSB 31-5J (Post)	1190	950	185	13 x 6-3/4 x 9-1/2
31	SSB 31-5T (Threaded)	SSB 31-5TJ (Threaded)	1190	1000	185	13 x 6-3/4 x 9-1/2
31P	SSB 31HD (Post)		940	730	190	13 x 6-3/4 x 9-1/2
31	SSB 31HD-T (Threaded)	SSB 31HD-TJ (Threaded)	875	700	190	13 x 6-3/4 x 9-1/2



SUPER START SPECIALTY BATTERIES

Super Start gives all the power needed for golf cart, electric vehicle or floor scrubber applications. Whether you need 6 volt power for a golf cart, personal mobility equipment, EV, aerial lift, boat, RV, floor machine, road sign or any other application, Super Start is the battery of choice.



Super Start - Golf Cart/Electric Vehicle

BCI Group #	Part #	(J) Part #	Volt	Min @ 25 AMP	Dimensions L x W x H
GC2	SSB GC110DT (Dual Terminal)	SSB GC110TJ	6	425	10-1/4 x 7-1/8 x 10-7/8
GC2	SSB AGMGC2		6	409	10-1/4 x 7-1/8 x 11-3/8
GC8V	SSB GC8120	SSB GC8120J	8	318	10-1/4 x 7-1/8 x 11-3/8
GC12	SSB GC12V		12	110	13-1/8 x 7-1/16 x 11-3/8
GC25	SSB EV125		6	488	10-1/4 x 7-1/8 x 11-1/8

Super Start - Golf Cart/Gas Vehicle - Starting

BCI Group #	Part #	(J) Part #	Cranking AMPS (CA) @ 32° F	Cold Cranking AMPS (CCA) @ 0° F	Reserve Capacity @ 80° F	Dimensions L x W x H
70	SSB GC70	SSB GC70J	650	525	80	8-3/8 x 7 x 7-1/8
26	SSB GC26G		560	450	55	8-3/4 x 6-3/4 x 8

GOLF CARTS



PERSONAL MOBILITY



FLOOR MACHINE



SUPER START LAWN & GARDEN BATTERIES

Super Start Lawn and Garden batteries provide a long storage life. Premium envelope separators protect all sides of the plate preventing internal shorts. Combined with durable lightweight polypropylene cases, these features provide top performance over the toughest terrain.

- Excellent starting power for all small engine applications
- More than 250 quality control checks guarantee the highest quality



Super Start - 12 Volt Lawn and Garden/Small Engine Starting and Deep Cycle

BCI Group #	Description	Part #	(J) Part #	Cranking AMPS (CA) @ 32° F	Cold Cranking AMPS (CCA) @ 0° F	Dimensions L x W x H
U1	Dual Purpose	SSB AGMU1			200	7-3/4 x 5-1/8 x 7-1/4
U1	Left Hand Positive	SSB U1L	SSB U1LJ	190	160	7-3/4 x 5-1/8 x 7-1/4
U1	Left Hand Positive High Cold Cranking Amps	SSB U1LH	SSB U1LHJ	345	275	7-3/4 x 5-1/8 x 7-1/4
U1	Left Hand Positive Ultra High Cold Cranking Amps	SSB U1LUH	SSB U1LUHJ	410	340	7-3/4 x 5-1/8 x 7-1/4
U1R	Right Hand Positive High Cold Cranking Amps	SSB U1RH	SSB U1RHJ	275	230	7-3/4 x 5-1/8 x 7-1/4
22NF	General Purpose	SSB 22NF	SSB 22NFJ	430	360	9-3/8 x 5-1/2 x 9

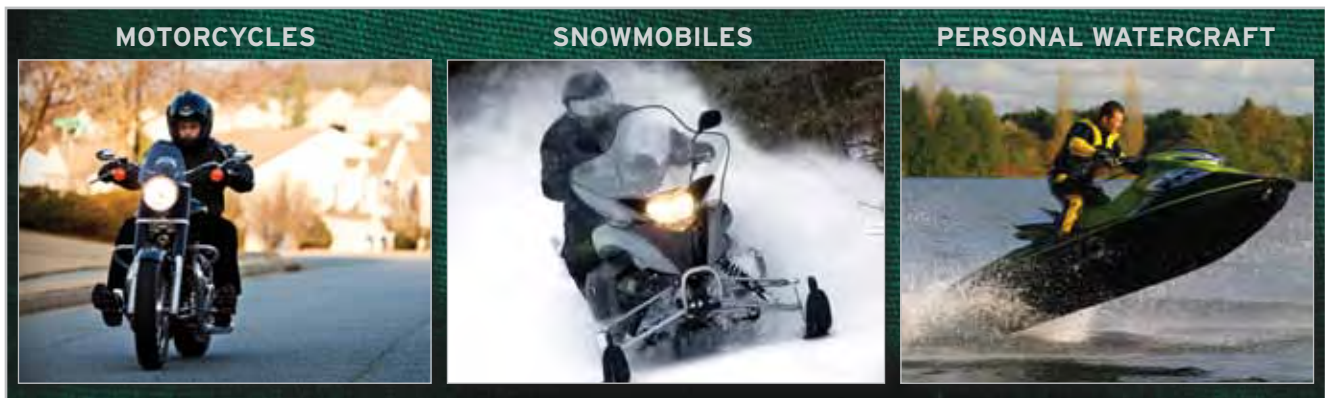
SUPER START POWERSPORT CONVENTIONAL BATTERIES

Super Start Powersports batteries are designed to handle the many demanding needs of motorcycles, personal watercraft, snowmobiles, ATVs, scooters, and riding mower applications. These batteries deliver excellent performance for on-road and off-road use with extra cranking power, extended life and vibration resistance for all types of recreational or work-related adventures.



Super Start - Motorcycle/Personal Watercraft (Dry with Fill Pack)			
Part #	(J) Part #	Cold Cranking AMPS (CCA) @ 0° F	Dimensions L x W x H
SSB 6N5.5-1D	SSB 6N5.5-1DJ	11	3-9/16 x 2-3/4 x 3-5/16
SSB 6N6-3B	SSB 6N6-3BJ	11	3-7/8 x 2-1/4 x 4-3/5
SSB 12N5-4B	SSB 12N5-4BJ	38	4-3/4 x 2-3/8 x 5-1/8
SSB 12N7-4A	SSB 12N7-4AJ	74	5-5/16 x 3 x 5-1/4
SSB HCB16AAB	SSB HCB16AABJ	210	6 x 3-5/8 x 7-1/16
SSB CB4LB	SSB CB4LBJ	45	4-3/4 x 2-3/4 x 3-5/8
SSB CB5LB	SSB CB5LBJ	65	4-3/4 x 2-3/8 x 5-1/8
SSB CB9AA	SSB CB9AAJ	124	5-5/16 x 2-13/16 x 6-7/16
SSB CB9B	SSB CB9BJ	130	5-5/16 x 3 x 5-1/2
SSB CB9LB	SSB CB9LBJ	130	5-5/16 x 3 x 5-1/2
SSB CB10AA2	SSB CB10AA2J	160	5-5/16 x 3-9/16 x 6-1/8
SSB CB10LA2	SSB CB10LA2J	160	5-5/16 x 3-9/16 x 5-3/4
SSB CB12AA	SSB CB12AAJ	165	5-5/16 x 3-3/16 x 6-5/16
SSB CB12ALA	SSB CB12ALAJ	165	5-5/16 x 3-3/16 x 6-7/8
SSB CB12CA	SSB CB12CAJ	165	5-5/16 x 3-3/16 x 6-7/8
SSB CHD4-12	SSB CHD4-12J	240	8-1/8 x 5-1/4 x 6-1/2
SSB CB14AA2	SSB CB14AA2J	190	5-1/4 x 3-1/2 x 6-9/16
SSB CB14LA2	SSB CB14LA2J	190	5-1/4 x 3-1/2 x 6-9/16
SSB CB16ALA2	SSB CB16ALA2J	200	8-1/8 x 2-13/16 x 6-7/16
SSB CB16B	SSB CB16BJ	240	6-7/8 x 4 x 6-1/8
SSB CB16CLB	SSB CB16CLBJ	240	6-7/8 x 4 x 6-1/8
SSB CB16LB	SSB CB16LBJ	240	6-7/8 x 4 x 6-1/8
SSB CB18LA	SSB CB18LAJ	235	7-1/8 x 3-9/16 x 6-3/8
SSB C50N18LA3	SSB C50N18LA3J	260	8-1/8 x 3-9/16 x 6-3/8

BATTERIES



AGM Powersport Batteries

SUPER START POWERSPORT AGM BATTERIES

Super Start Powersport series batteries are designed for more than performance, they are designed for the enthusiast. Whether your passion is boating, personal watercraft, snowmobiles, motorcycles or ATVs, Super Start makes a battery for you. Do you need the ultimate in starting power and high reserve capacity? Super Start Powersport AGM batteries are spill-proof, leak-proof and vibration-resistant to provide the most advanced power and durability in the industry.



Super Start AGM - Motorcycle/Personal Watercraft

Part #	(J) Part #	Cold Cranking AMPS (CCA) @ 0° F	Cold Cranking AMPS (CCA) @ 10° A.H.	Volts	Dimensions L x W x H
SSB ETX9	SSB GTX9FAJ	120	8	12	5-7/8 x 3-7/16 x 4-3/16
SSB ETX12	SSB GTX12FAJ	180	10	12	5-7/8 x 3-7/16 x 5-1/8
SSB ETX14	SSB GTX14FAJ	200	12	12	5-7/8 x 3-7/16 x 5-3/4
SSB ETX14L		220	12	12	5-7/8 x 3-7/16 x 5-3/4
SSB ETX15	SSB GTX15FAJ	210	12	12	5-1/4 x 3-1/2 x 6-9/16
SSB ETX15L	SSB GTX15LFAJ	210	12	12	5-1/4 x 3-1/2 x 6-9/16
SSB ETX16	SSB GTX16FAJ	275	16	12	6-7/8 x 4 x 6-1/8
SSB ETX16L	SSB GTX16LFAJ	275	16	12	6-7/8 x 4 x 6-1/8
SSB ETX18L	SSB GTX18LFAJ	330	18	12	8-1/8 x 3-9/16 x 6-3/8
SSB ETX20L	SSB GTX20LFAJ	270	17.5	12	6-7/8 x 3-7/16 x 6-1/8
SSB ETX30LA		400	26	12	6-5/8 x 5-3/16 x 7-3/4
SSB ETZ7S	SSB YTZ7SJ	100	6	12	4-7/16 x 2-3/4 x 4-3/16
SSB ETZ10S	SSB YTZ10SJ	180	9	12	5-15/16 x 3-7/16 x 3-5/8
SSB ETZ12S	SSB YTZ12SJ	200	11	12	5-15/16 x 3-7/16 x 4-5/16
SSB ETZ14S	SSB YTZ14SJ	220	11.2	12	5-15/16 x 3-7/16 x 4-5/16

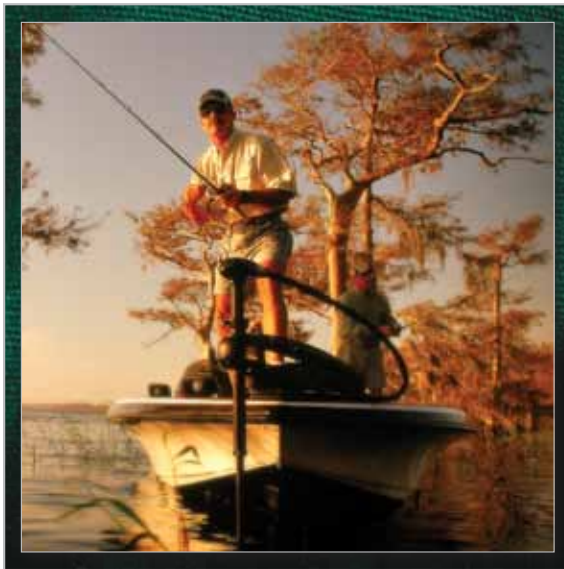
Super Start AGM - Motorcycle/Personal Watercraft with Six pack Acid Fill

Part #	(J) Part #	Cold Cranking AMPS (CCA) @ 0° F	Cold Cranking AMPS (CCA) @ 10° A.H.	Volts	Dimensions L x W x H
SSB GT4LBS	SSB GTX4LBSJ	40	3	12	4-1/2 x 2-13/16 x 3-3/8
SSB GTX5LBS	SSB GTX5LBSJ	70	4	12	4-1/2 x 2-13/16 x 4-3/16
SSB GTX7ABS	SSB GTX7ABSJ	85	6	12	6 x 3-3/4 x 3-3/4
SSB GTX7LBS	SSB GTX7LBSJ	85	6	12	4-1/2 x 2-13/16 x 5-15/16
SSB GTX9BS	SSB GTX9BSJ	135	8	12	6 x 3-7/16 x 4-3/16
SSB GTX12BS	SSB GT12ABSJ	170	10	12	6 x 3-7/16 x 5-1/8
SSB GT12ABS	SSB GT12BBSJ	150	10	12	5-15/16 x 3-7/16 x 4-3/16
SSB GT12BBS	SSB GTX12BSJ	125	11	12	5-7/8 x 2-11/16 x 5-1/8
SSB GTX14BS	SSB GTX14BSJ	190	12	12	6 x 3-7/16 x 5-3/4
SSB GTX20LBS	SSB GTX20LBSJ	270	18	12	6-7/8 x 3-7/16 x 6-1/8

Marine & Deep Cycle Batteries

SUPER START MARINE BATTERIES

Super Start Marine batteries are available in both Starting and Deep Cycle varieties. The starting line is designed for reliable, quick starts in any marine engine. The deep cycle line delivers deep discharges of power for marine and recreational applications. Their exclusive leak-proof "molded-in" stainless steel terminals keep connections corrosion free.



Handle

for easy carrying and installation

Corrosion Resistant Post/ Stud Terminals

offer versatility and ability to quickly connect and disconnect multiple marine accessories

Polypropylene Case

for durability and resistance to impact

Extra-Thick Heavy-Duty Plates

the extreme bond created by the LifeSpan formula improves overall performance and increases life



Super Start - 12 Volt Marine

Description	BCI Group #	Part #	(J) Part #	Marine Cranking AMPS (CA) @ 32° F	Reserve Capacity @ 80° F	Dimensions L x W x H
Starting	24	SSB CAPTAIN	SSB CAPTAINJ	625	90	10-3/4 x 6-3/4 x 9-3/8
Starting	24	SSB 1ST-MATE	SSB 1ST-MATEJ	500	70	10-3/4 x 6-3/4 x 9-3/8
Starting	24	SSB 24MS	SSB 24MSJ	1000	130	10-3/4 x 6-3/4 x 9-3/8
Starting	27	SSB 27MS	SSB 27MSJ	1000	182	12-1/2 x 6-3/4 x 9-3/8
Deep Cycle	24	SSB 24DCM	SSB 24DCMJ	530	140	10-3/4 x 6-3/4 x 9-3/8
Deep Cycle	27	SSB 27DCM	SSB 27DCMJ	610	160	12-1/2 x 6-3/4 x 9-3/8
Deep Cycle	31	SSB 31DCM	SSB 31DCMJ	690	210	13 x 6-3/4 x 9-1/2

Super Start AGM - 12 Volt Marine

Description	BCI Group #	Part #	Marine Cranking AMPS (CA) @ 32° F	Reserve Capacity @ 80° F	Dimensions L x W x H
Dual Purpose	AGM	SSB 34MAGM	955	120	10-3/4 x 6-7/8 x 8-3/8

BATTERIES

Economy Batteries

SUPER START ECONOMY BATTERIES

Robust separators are stronger and more stable, leading to fewer battery failures due to shorts. Best-in-class vent caps reduce leakage and corrosion for safer battery performance.

- 12 month free replacement
- Extra capacity electrolyte reserve provides longer performance and life
- Reliable starting power



Super Start Economy - 12 Volt Automotive/LTV

BCI Group #	Part #	(J) Part #	Cranking AMPS (CA) @ 32° F	Cold Cranking AMPS (CCA) @ 0° F	Reserve Capacity @ 80° F	Dimensions L x W x H
24/24R	SSB 24/24R48 Center Post Position		675	540	95	10-3/4 x 6-3/4 x 9
26	SSB 26-48	SSB 26-48J	660	525	80	8-1/2 X 6-3/4 x 7-3/4
26R	SSB 26R48	SSB 26R48J	665	540	80	8-1/2 X 6-3/4 x 7-3/4
34	SSB 34-48	SSB 34-48J	675	540	90	10-3/4 x 6-7/8 x 7-3/16
58	SSB 58-48	SSB 58-48J	630	500	75	10 x 7-1/4 x 7
65	SSB 65-48	SSB 65-48J	815	650	80	12 x 7-3/8 x 7-5/8
75	SSB 75-48	SSB 75-48J	670	540	80	9-3/4 x 7 x 7-1/4
75/86	SSB 75DT48	SSB 75DT48J	790	630	85	9-3/4 X 7 X 8-1/8

34" TUBULAR STEEL RACK WITH HEADER

- Displays approximately nine batteries (not included)
- Uses only three square feet of floor space
- Durable tubular black, powder coated steel construction
- EZ snap design allows for quick assembly and requires no tools or hardware
- One steel header holder

Dimensions

Width (outside): 34"

Depth: 12"

Height with Header: 50"

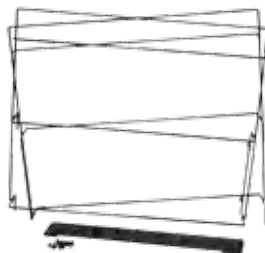
SSB RACK 9 W/HDR
Replacement Header Sign
SSB P276



BATTERY LOCKING DEVICE

- Securely locks batteries to rack
- Prevents unwanted removal of batteries from rack for added safety and protection
- Durable tubular black steel construction
- Locking unit holds tightly to battery rack
- Hardware kit included

SSB RACK 9 LOCK



SUPER START BAY BANNER

• 2' x 5'

MKT BANNER-SSB



METAL TACKER SIGN

Available from the catalog department.

SSB METAL TACKER SIGN

OPTIMA BATTERIES THE ULTIMATE POWER SOURCE™.

Optima batteries are fully-sealed and can be mounted in any position. This includes upside-down or standing on end. Spiralcell technology immobilizes the internal components of the battery, enabling Optima batteries to withstand incredible amounts of vibration. Vehicles modified for better engine performance demand more from a battery. Optima batteries withstand the high underhood temperatures associated with these performance vehicles. If your vehicle has a lot of accessories like running lights, high-performance stereo / AV systems, winches, or hydraulics, your vehicle demands more from its battery. If your battery is used in vehicles that demand extra reliability and performance, or if you just take pride in getting the best performance out of your vehicle, Optima batteries deliver the performance you demand.



Up to 2X longer life



Over 15X more vibration resistant



Spill-proof and maintenance free



YELLOWTOP®

Deep cycle and starting power for off-road, car audio, high performance, street rod and commercial applications.



BLUETOP®

Deep cycle and starting power for fishing boats, performance boats and recreational vehicles.



REDTOP®

Starting power for SUVs, trucks, cars and performance vehicles. Sealed cells eliminate chance of potential damage from battery acid.

Spiralcell Technology for superior vibration resistance and extended life



99.99% Pure Lead: Spiralcell design allows for lead to be used in its purest form

Solid cast cell connections for increased durability and maximum plate height

Absorbent glass-mat separators holds electrolytes like a sponge to eliminate acid spilling

Tightly compressed cells for added vibration resistance

Optima						
Description	Part #	Volt	Cranking AMPS (CA) @ 32° F	Cold Cranking AMPS (CCA) @ 0° F	Reserve Capacity @ 80° F	Dimensions L x W x H
Dual Purpose Marine	OBT BLUED27M	12	1000	800	140	12-13/16 x 6-13/16 x 8-3/4
Dual Purpose Marine	OBT BLUED31M	12	1125	900	155	12-13/16 x 6-1/2 x 9-3/8
Dual Purpose Marine	OBT BLUED34	12	870	750	120	10 x 6-7/8 x 7-13/16
Starting Marine	OBT BLUES34	12	1000	800	100	10 x 6-7/8 x 7-13/16
General Purpose	OBT RED6V	6	1000	800	100	10 X 3-9/16 X 8-1/8
General Purpose	OBT RED25	12	910	720	90	9-5/16 x 6-13/16 x 7-5/8
General Purpose	OBT RED34	12	800	1000	100	10 x 6-7/8 x 7-13/16
General Purpose	OBT RED35	12	910	720	90	9-5/16 x 6-13/16 x 7-5/8
General Purpose	OBT RED34/78	12	1000	800	110	10 x 6-7/8 x 7-13/16
General Purpose	OBT RED75/35	12	910	720	90	9-5/16 x 6-13/16 x 7-5/8
General Purpose	OBT RED78	12	1000	800	100	10 x 7-1/4 x 7-13/16
Dual Purpose	OBT YEL31A	12	1125	900	155	12-13/16 x 6-1/2 x 9-3/8
Dual Purpose	OBT YEL31T	12	1125	900	155	12-13/16 x 6-1/2 x 9-3/8
Dual Purpose	OBT YEL34/78	12	870	750	120	10 x 6-7/8 x 7-13/16
Dual Purpose	OBT YEL35	12	770	620	100	9-5/16 x 6-13/16 x 8-15/16
Dual Purpose	OBT YEL51	12	575	450	66	9-5/16 x 5-1/16 x 8-15/16
Dual Purpose	OBT YEL51R	12	575	450	66	9-5/16 x 5-1/16 x 8-15/16

BATTERY ACID

5 Gallon Box
SSB 5GAL
SSB 10012
 6 Quart Box
SSB 6QT
SSB 10543



PROFESSIONAL BATTERY FILLER

Shuts off automatically when battery cell is at proper level, no over-filling. Features a double action fast flow top that prevents after-drip. Stops surface discharge caused by a wet battery. Tough, polyethylene. Safe to use with battery acid.

PFM W54274



BULB TYPE BATTERY FILLER

SS 01334



PREMIUM COMBO TOP/SIDE POST PROTECTOR

- Helps prevent corrosion
- Extends the life of batteries and terminals

SS 08512



TERMINAL PROTECTORS

For post and side terminal batteries.

SS 01396 Sold in Pairs



TERMINAL PROTECTORS

Protective washers work on side terminal, top post and threaded stud batteries.

Top Mount

BWD BH507 Package of Ten

BWD BH507C Can of 100

Side Mount

BWD BH508 Package of Ten



TERMINAL PROTECTORS

For post and side terminal batteries. Prevents corrosion buildup, prolonging battery life.

SS 00237 Can of 100



BATTERY CLEANER

Quickly removes corrosion while neutralizing acid spills on batteries. Easy and economical to use. Just spray on and rinse off.

CRC 5023 11 oz.



BATTERY TERMINAL PROTECTOR

Specially designed to protect battery terminals from corrosion, a leading cause of hard starting and battery failure. Provides a lead-free soft protective coating.

CRC 5046 7.5 oz.



CORROSION PROTECTIVE COMPOUND

Protects and seals terminals against water, oils, and corrosive gases. Prevents seizing of threaded fasteners.

BWD BH506 8 oz. with Brush

TERMINAL PROTECTION SPRAY

SS 01341 3/4 oz.



CLEANER SPRAY

SS 08576 1-1/8 oz.

TERMINAL CLEANING KIT

- Cleaner
- Protection spray
- Terminal brush
- Terminal protectors

SS 01342



HYDROMETER

- Hexagon tip prevents rolling when not in use
- Color-coded float
- Easy to read
- Precise

SS 01397



BATTERY TESTER

- With dial indicator
- Permanent instructions on back of each tester
- Dial indicates battery charge and specific gravity

SS 08516



Brushes, Tools & Carriers

BATTERY BRUSH

Cleans dirt and corrosion from battery terminals and cable clamps. The external brush cleans cable clamps and internal brush cleans terminal posts.

LIS 11120



BATTERY POST AND TERMINAL CLEANING BRUSH KIT

BWD CE6

POST AND CLAMP CLEANER

Heavy-duty corrosion resistant stainless steel brush and metal base. Remove corrosion for increased starting power.

SS 01401



SIDE TERMINAL BATTERY CLEANER

Coil spring cutters polish the battery contact while stainless steel brushes clean the cable terminals.

LIS 11400



THREE WAY BATTERY TOOL

Sharp steep blades remove corrosion and put a correct angle on terminal clamps and posts.

SS 01326



BATTERY TERMINAL SPREADER AND CLEANER

Clean and spread battery cable terminals with this plier-type tool. Sharp teeth effectively clean corrosion from the clamp.

KDT 204

BATTERY NUT PLIERS

Easily loosen and tighten nuts on battery terminal clamps.

KDT 203



BATTERY TERMINAL COMBO WRENCH

Suitable for OE top (10mm) and side terminal bolts (5/16")

SS 08784



BATTERY TERMINAL PULLER

Removes battery terminals and bolted on wiper arms.

KDT 202



BATTERY CARRIER

Spring-action handle turns lifting power into battery gripping pressure. Carrier works on nearly all batteries, from motorcycles to boats.

LIS 57850



BATTERY HANDLER

Tighten the threaded handle to securely grip all automotive batteries. The sure grip and low profile design allow you to maneuver the battery in and out of most under-the-hood battery compartments. Jaws extend from 6-1/4" to 10-1/4".

LIS 57000



BATTERY LIFTER

- 14" length
- Resist rust and corrosion
- Heavy-duty, acid-resistant vinyl carrier straps have plated metal parts
- For post terminal batteries

SS 08517

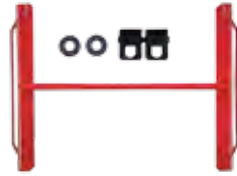


Hold Downs

UNIVERSAL SIDE MOUNT

AABM Groups 22F, 24, 27G, 27H, 60. Includes two fiber washers and two matching brackets.

BWD BH8UC



CROSSBAR HOLD DOWNS

Standard
SS 01328

Adjustable
SS 01343

BATTERY HOLD DOWN KIT

Eliminate battery shifting and movement with the adjustable "J" hooks and heavy-duty rubber top strap. Rubber top allows expansion to fit most any battery size.

SS 01409



BATTERY HOLD DOWN KIT

10-1/4" x 6-7/8".

BWD BH203F



BASE MOUNT

For GM; AABM Groups 22C, 22FC, 24, 24C. Includes steel washer and bolt.

BWD BH201C



BATTERY HOLD DOWN KIT

Base clamp style. Fits most GM vehicles and Ford, Lincoln and Mercury '01 - '90. Ford Truck '01 - '90.

SS 08787



GM, UNIVERSAL BASE MOUNT HOLD DOWN

For end or side mount.

SS 01329



3" THREAD BATTERY HOLD DOWN BOLTS

9-3/4" x 5/16"

BWD BH61C

8-7/8" x 1/4"

BWD BH65C



"J" TYPE HOLD DOWN BOLTS

8"
SS 01330

10"
SS 01331

12"
SS 01332



"L" TYPE HOLD DOWN BOLTS

10"
SS 01333



UNIVERSAL REPLACEMENT BATTERY TRAYS

- Made with durable rust and corrosion resistant polypropylene
- Fits passenger cars and light-duty vehicles
- Universal slotted holes in tray and adapter brackets make installation easy
- Adapts to OE hold downs, most replacement hold downs and hold down bolts

Small (11-1/2" x 8-1/2")

SS 01339

Large (14" x 7-7/8")

SS 01340



BATTERY BOXES

Group 24

NOC HM300BK

6 Volt Snaptop

NOC HM306BK

Group 27

NOC HM318BK

Group 27 Snaptop

NOC HM327BK



BATTERY ISOLATORS

In a multi-battery system, the battery with the lower state of charge will drain power from the battery with the higher state of charge. The battery isolator protects your starting battery power so that no matter how weak your accessory battery becomes, the accessory battery will never drain power from the starting battery. The battery isolator also saves time by allowing simultaneous charging of both batteries.

95 AMP BATTERY ISOLATOR

SS 08770

120 AMP BATTERY ISOLATOR

SS 08771



MEDICAL COMPARTMENT ISOLATOR FOR AMBULANCES

Isolates medical equipment batteries from any loads the remainder of the ambulance electrical system may impose.

- 75 amps at 12 volt DC
- Terminals: two 1/4" stud
- Mounting: two 9/32" (7.14mm) diameter holes
- Size: 3-1/2" x 4-15/16" x 3-11/32"

CH 48051



BATTERY ISOLATOR FOR DELCOTRON SERIES CS ALTERNATORS

Includes an extra ignition connection terminal. Connects to a terminal or wire that is switched by the ignition switch.

- 140 amp maximum alternator rating
- Terminals: three 5/16" stud and one #10 stud
- Mounting: four 9/32" (7.14mm) diameter holes

CH 48122



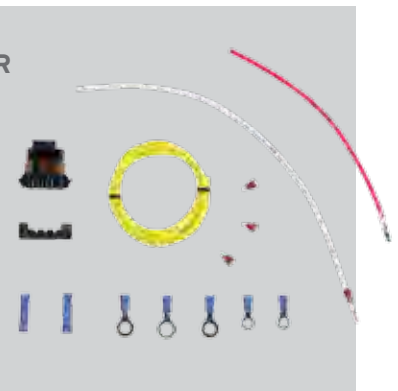
BATTERY ISOLATOR INSTALLATION KIT

Contains various 16-14 gauge terminals, service wire for "S" position on some GM alternator connectors and primary wire.

SS 08768

Contains various terminals and connectors, 15' 8 gauge wire and 50 amp circuit breaker. Non-GM.

SS 08769



BATTERY SELECTOR

BWD S917



300 AMP BATTERY ISOLATOR SWITCH

CTI 85988



300 AMP MASTER DISCONNECT SWITCH

BWD S9902



175 AMP MASTER DISCONNECT SWITCH

Designed to prevent electrical fires, tampering, theft and battery drain when equipment is unattended. Single pole two positions: off/on for 6 - 36 volt DC systems.

CH 2484



BATTERY ISOLATORS FOR 12-36 VOLT DC NEGATIVE GROUND SYSTEMS

Isolate batteries to prevent the battery with the higher charge from draining into the battery with the lower charge. Allows two batteries to be charged simultaneously from a single power source. Contains Solid State circuitry embedded in the insulation for efficient heat dissipation. Installation and wiring instructions included.

42 Amp Maximum Alternator Rating

- Terminations: one #10 gauge and two #16 gauge 6" wire leads
- Mounting: two 13/64" (5.15mm) diameter holes

CH 48080

70 Amp Maximum Alternator Rating

- Terminals: three 1/4" stud
- Mounting: two 9/32" (7.14mm) diameter holes

CH 48070

200 Amp Maximum Alternator Rating

- Terminals: three 5/16" stud
- Mounting: four 9/32" (7.14mm) diameter holes

CH 48160



Booster Cables & Replacement Clamps



BATTERY TEST CLIPS

10 Amp Clip
With serrated jaws - 2".
Opens to 7/16".

BWD CT702

50 Amp Clip
4". Opens to 1-1/16".

BWD CT704



25 Amp Clip
With serrated jaws - 2-7/8".
Opens to 3/4".

BWD CT703

100 Amp Clip
4". Opens to 1-1/4".

BWD CT706

1" INSULATED ALLIGATOR CLIPS

CTI 85650



BATTERY CHARGER CLAMPS

- Fits battery chargers, tune-up and test equipment
- 50 amp

SS 01392 Two per Package



UNINSULATED ALLIGATOR CLIP LEADS

CTI 85654



BOOSTER CABLES

Meets SAE J1494 specifications.

Booster Cables

Part #	Gauge	Length
SS 08570	10	12'
SS 08571	8	12'
SS 08572	6	16'
SS 08574	4	20'
SS 08575	2	20'
SS 00161*	2	24'

100% Copper



VINYL COATED BOOSTER CABLE REPLACEMENT CLAMPS

SS 01324

BOOSTER CABLE REPLACEMENT SOLID COPPER JAW

200 Amp

BWD BH71 1 Pair

300 Amp

BWD BH69 1 Pair



400 AMP HEAVY-DUTY "MARQUETTE" TYPE CLAMP WITH SERRATED STEEL JAWS

BWD BH59C



400 AMP LIQUID VINYL DIPPED BOOSTER CABLE REPLACEMENT CLAMPS

BWD BH58 1 Pair



500 AMP PARROT STYLE BOOSTER CABLE REPLACEMENT CLAMPS

BWD BH72 1 Pair



800 AMP BOOSTER CABLE REPLACEMENT CLAMPS

BWD BH66 1 Pair

Replacement Jaws for BH66

BWD BH66J



HEAVY-DUTY PARROT TYPE BOOSTER CABLE REPLACEMENT CLAMPS

SS 01393

ACCESSORIES

Booster Cables & Connectors



AUXILIARY STARTING SYSTEM

Engineered especially for fleets and professional service. This fast and effective auxiliary starting system provides quick jump start capability. No manual hook-up to battery. Correct polarity is assured.

Female Receptacle

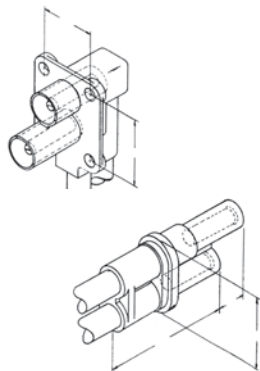
Mounts to vehicle.

BWD CE3298

Male Mating Plug

Mounts to power source.

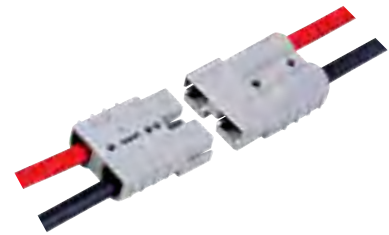
BWD CE3299



PLUG-IN 4 GAUGE INDUSTRIAL BOOSTER CABLES

25' overall length. 5' section attaches directly to vehicle. 20' section has heavy-duty 800 amp clamps and snaps easily into permanently mounted cable. Perfect for tow trucks and fork lifts.

BWD CE3300



SAFE MATE® QUICK CONNECT BATTERY COUPLERS

Standard package includes one housing, two contacts, to make up one side of a quick connect coupler. Use two standard packages for a complete connection.

- Silver plated solid copper contacts offer low resistance, yet superior conductivity
- Self-cleaning contact design resists arcing by keeping conductive surfaces clean and free of erosion

Battery Connector Housings and Contacts

Part #	Color	Amp	SWG Wire Size	Cable Well Dia.	Contacts Only Part # Set of 2
BWD BH510	Blue	50	6	.221	BH511
BWD BH512	Yellow	50	12-10	.136	BH513
BWD BH514	Pink	175	1/0	.437	BH515
BWD BH516	Orange	350	2/0	.484	BH517
BWD BH518	Pink	175	4		BH519



QUICK-CONNECT BATTERY COUPLER DUST COVER

Protects contact points from damage when not in use.

For 50 Amp Connectors

BWD BH520

For 175 Amp Connectors

BWD BH521

For 350 Amp Connectors

BWD BH522



HANDLE FOR SAFE MATE®

- Protective caps fit over connector mating points for all weather protection
- Durable PVC material rated at 105° C

For 50 Amp Connectors

BWD BH523

For 175 Amp and 350 Amp Connectors

BWD BH524

Professional Roll Around Chargers

6/12 VOLT STARTER/CHARGER/TESTER

Gives fleet operators, do-it-yourselfers and professionals a wide range of charging rates, an engine start rate and the ability to analyze electric and starting system problems. For 6 and 12 volt batteries. Manual operation.

- 250 amp 12 volt engine start for emergency starting
- 125 amp 6 volt engine start
- Voltmeter for battery testing
- 50 amp rapid charge for 6 and 12 volt batteries; charges in 1 to 3 hours
- 10 amp fast charge for 12 volt batteries great for everyday charging needs; charges in 3 to 5 hours
- Two rotary switches: amp/volt selector and 2-1/4 hour timer; timer switch has "hold" position for continuous charging
- Cooling fan for longer life
- 300 amp clamps

SHU PSW2550



INDUSTRIAL/FLEET STARTER/CHARGER

For heavy-duty fleet and industrial use.

Charges a variety of batteries: 6, 12, and 24 volt. Full power engine start available in each volt range. Manual operation.

- 250 amp 12 volt engine start for emergency starting under severe conditions
- 180 amp 6 volt engine start
- 80 amp rate for 6 volt battery systems
- 65 amp rate for 12 volt battery systems
- 30 amp rate for 24 volt battery systems
- Two rotary switches: amp/volt selector and 2-1/4 hour timer; timer switch has "hold" position for continuous charging
- Cooling fan for longer life
- 300 amp clamps

SHU PSW61224



12 VOLT MANUAL/AUTOMATIC MICROPROCESSOR PRO SERIES CHARGER

- Over-sized heavy-duty selector switches
- Rotary output switch selects between: 300 amp engine start; 70 amp rapid charge; 40 and 20 amp fast charge
- Precision timer-controlled operation
- 2-1/4 hour timer with off and hold positions for controlled or continuous recharging
- Large face, clear-view amp and volt meters have easy to read graduated scales
- 600 amp heavy-duty, chrome-plated steel ultra grip clamps
- Extra long 9' AC line cord

SHU PSW70300A



HIGH OUTPUT STARTER/CHARGER

Heavy-duty model for big fleet operations and industrial use. Ideal for repair shops needing a lot of power and the ability to test batteries and alternators. Two fast charge settings. Very high-output engine start assists batteries in cranking most engines under severe weather conditions. For 6 and 12 volt batteries. Manual operation.

- 300 amp 12 volt engine start for emergency starting
- 200 amp 6 volt engine start
- 60 amp rapid charge; charges a battery in 1/2 to 2 hours
- 30 amp charge for very fast charging; charges in 1 to 3 hours
- Two rotary switches: amp/volt selector and 2-1/4 hour timer; timer switch has "hold" position for continuous charging
- Cooling fan for longer life
- 300 amp clamps

SHU PSW3060



Professional Roll Around Chargers

12 VOLT MANUAL CHARGER

Designed for economy-minded professional mechanics and fleet operations. Use for both slow and fast charge applications. High-output engine start will assist batteries in cranking most engines under severe summer/winter weather conditions. For 12 volt batteries.

- 200 amp engine start for emergency starting
- 35 amp rapid charge charges in 1 to 1-1/2 hours
- 2 amp trickle charge - charges a small 12 volt battery in 2 to 12 hours
- Off position on switch

SHU SE2352



6/12 VOLT MANUAL CHARGER

Heavy-duty model for big fleet operations and industrial use. Ideal for repair shops that need a lot of power and the ability to test batteries and alternators. Two rapid charge settings. Very high-output engine start assists batteries in cranking most engines under severe weather conditions. For 6 and 12 volt batteries. Fan cooled.

- 300 amp 12 volt/200 amp 6 volt engine start for emergency starting
- 60 amp rapid charge charges a battery in 1/2 to 1 hour
- 30 amp rapid charge for very fast charging charges in 1 to 2 hours
- 4 amp slow charge for charging and maintaining small batteries
- "Hold" position - for continuous charging
- On-board battery load tester tests 50 amps on a 6 volt system, 100 amps on a 12 volt system
- Durable construction with tubular handle

SHU SE8050



6/12 VOLT MANUAL CHARGER

Designed for professional mechanics. Manual operation puts user in control. High-output engine start assists batteries in cranking most engines under severe conditions. For 6 and 12 volt batteries. Fan cooled.

- 200 amp 12 volt/100 amp 6 volt engine start for emergency starting
- 40 amp rapid charge charges in 1/2 to 1 hour
- 10 amp fast charge for everyday charging needs; charges in 3 to 5 hours
- 1 amp, 12 volt slow/trickle charge rate for small batteries also maintains batteries
- Two rotary switches for ease-of-use and accuracy
- "Hold" position on timer switch for continuous charging
- UL Rating: 10 amp and 40 amp continuous, 200 amp start
- Discharge rating: 12/50 amp

SHU SE4020



6/12 VOLT MANUAL WHEEL CHARGER

This charger gives fleet operations and professionals a wide range of charging rates, an engine start rate and the ability to analyze electrical and starting system problems. For 6 and 12 volt batteries. Fan cooled.

- 200 amp 12 volt/100 amp 6 volt engine start - for emergency starting.
- 40 amp rapid charge - charges in 1/2 to 1 hour
- 10 amp fast charge - for everyday charging needs; charges in 3 to 5 hours
- 2 amp trickle charge - charges a small 12 volt battery in 2 to 12 hours
- Multi-function tester
- Two rotary switches
- "Hold" position on timer switch - for continuous charging
- Voltmeter for battery testing
- UL Rating: 2/10 amp and 40 amp continuous, 200 amp start; discharge rating: 3/12/50 am

SHU SE4022



MANUAL CHARGER WITH ENGINE START

Charges a variety of batteries: 6, 12, 18 and 24 volt. With this charger, the user no longer needs to separately charge 18 and 24 volt batteries. Full power engine start available in each volt range. Fan cooled.

- 200 amp 12 volt/150 amp 6/24 volt engine start - for emergency starting under severe conditions
- 80 amp rate - for 6 volt battery systems
- 60 amp rate - for 12 volt battery systems
- 40 amp rate - for 18 volt battery systems
- 30 amp rate - for 24 volt battery systems
- Single rotary switch - addresses all volt ranges
- "Hold" position on timer switch - for continuous charging

SHU SE3000





BATTERY CHARGING STATIONS

- Multi-stage charging algorithms
- Safe start, reverse polarity and short circuit protection, the charger will not apply current to the battery clamps unless they are properly connected
- Overcharge protection, the charger will not overcharge the battery
- Fan cooled for dependability and peak performance

6 Amp 6/12 Volt Automatic Four Battery Charging Station

- Four completely independent, fully automatic, microprocessor controlled charging banks - charge four different size batteries at the same time
- 6 amp output per bank
- Four detachable 6' cables with 75 amp, color coded clamps
- Separate LED battery status indicators for each bank
- Multi-stage charging algorithm
- Safe start, reverse polarity and short circuit protection - the charger will not apply current to the battery clamps until they are properly connected
- Overcharge protection - the charger will not over charge the battery
- Fan cooled for dependability and peak performance
- Heavy-duty, mountable, steel case for durability
- Charges 6 and 12 volt lead acid and AGM batteries
- UL approved

SHU INC406A

2/12 Amp 12 Volt Eight Battery Charging Station

Unique design allows mixing and matching of battery types and sizes. Includes eight sets of leads and clamps (72" long). Eight digital meters to monitor charging operation. Designed for charging 12 volt batteries using patent pending thermal runaway protection for fast and safe charging.

- Fully automatic charging station for one to eight batteries at a time
- Includes eight sets of 72" cables
- Designed for standard, AGM and gel cell batteries
- Charging currents from 12 to 2 amps
- 110 volt powered

SHU INC812A



XTERM CHARGER

A lightweight 10-channel charger that is convenient and easy to use.

- Prequalification battery test
- Constant current bulk charge
- Absorption finish charge
- Maintenance/float charge
- Built-in timer for battery protection

SSB CHARGER

SHIP 'N' SHORE SPEED/CHARGE CHARGER

- 15 amp fast charge charger monitors battery condition and adjusts charge rate to prevent battery damage; for car, truck, marine, RV, farm equipment, AGM, gel cell and deep-cycle batteries
- 10 amp fast charge self-adjusting charge rate for everyday charging needs and keeping your battery in peak condition
- 2 amp slow charge for charging and maintaining small batteries; charges motorcycle, ATV, snowmobile and lawn tractor batteries
- 75 amp clamps for top and side-mounted battery posts
- Electronic push button controls easy-to-feel switches for selection of display mode, charge rate or battery type; choose from regular automotive (low maintenance or maintenance-free), deep-cycle, AGM or gel cell batteries
- Retractable handle for easy portability and storage

SHU SSC1500A



AUTOMATIC SHIP 'N' SHORE ON-BOARD TWO BANK BATTERY CHARGER

A true, Dual Bank, On-Board, 15 amp 12 volt Marine Charger that permanently mounts to your boat. It's weather proof, water tight seal ensures that there will be no leakage and is safe to store on-board, all year round. The charger works with regular and deep cycle batteries, including flooded, AGM and gel cell. This smart charger automatically remembers the last battery type selected.

- 6' input and output cables
- LED Indicators
- Short Circuit and reverse polarity protection
- UL listed

SHU SS15A20B



10 AMP FULLY AUTOMATIC/MANUAL DEEP-CYCLE BATTERY CHARGER

This Ship 'N' Shore model is a state-of-the-art charger for boats and RVs with deep-cycle batteries. Circuit-controlled, fully automatic. Never worry about overcharging. Use it for onshore charging needs. Can also be switched to manual mode for special uses. For conventional 12 volt batteries.

- 10 amp fast charge for everyday charging needs; charges a deep-cycle battery in 7 to 11 hours; an automotive battery in 3 to 5 hours
- Fully automatic will not overcharge batteries
- Manual operation
- LED full charge indicator
- Convenient carrying handle
- Maintains charge
- Reverse hookup safeguard

SHU SS51A-PE



Bench Top Chargers

SPEED/CHARGE HYBRID ELECTRONIC CHARGER

Fully automatic microprocessor controlled. Self-adjusting, variable charge rates for everyday charging needs and maintaining the battery in peak condition. Charges and automatically desulfates and restores car, truck, RV, farm equipment, AGM, gel cell and deep-cycle batteries. Slow charge mode for charging and maintaining small batteries; charges motorcycle, ATV, snowmobile and lawn tractor batteries. Easy-to-select electronic touch-pad controls for digital display, battery type or charge/start. Choose from 12 volt regular automotive, 12 volt deep-cycle, 12 volt AGM or gel cell batteries.

- 80 amp engine start - for emergency starting
- 10 - 20 amp variable fast charge
- 2 amp slow charge
- 125 amp, sure-grip clamps - for top and side-mounted battery posts
- Built-in digital voltmeter/tester - helps diagnose problems
- Retractable handle - for easy portability; cord wrap on back

SHU SC8020A



AUTOMATIC SPEED/CHARGE CHARGER

Twelve volt charger monitors battery condition and adjusts charge rate downward to prevent battery damage. For car, light truck, marine, RV, farm equipment, AGM, gel cell and deep-cycle batteries. Easy-to-feel switches for selection of Display Mode, Charge Rate or Battery Type. Choose from regular automotive (low maintenance or maintenance-free), deep-cycle, AGM or gel cell batteries. Slow Charge mode for charging and maintaining small batteries; charges motorcycle, ATV, snowmobile and lawn tractor batteries.

- 12 amp fast charge
- 8 amp medium charge
- 2 amp slow charge
- 50 amp clamps - for top and side-mounted battery posts
- Electronic push button controls
- Retractable handle - for easy portability and storage

SHU SC1200A



AUTOMATIC SPEED/CHARGE CHARGER

Charger monitors battery condition and adjusts charge rate downward to prevent battery damage; for 6 and 12 volt car, small truck, motorcycle, lawn tractor lead-acid and AGM batteries. Slow Charge mode for charging and maintaining small batteries; charges motorcycle, ATV, snowmobile and lawn tractor batteries.

- 6 amp fast charge, 4 amp medium charge, 2 amp slow charge
- 6 volt - for antique cars and small farm tractor batteries
- 50 amp clamps - for top and side-mounted battery posts
- Electronic push button controls - easy-to-feel switches for selection of charge rate or battery type; choose between 6 or 12 volt batteries
- Sturdy, Built-In Handle - serves as convenient cord wrap and for easy portability

SHU SC600A



12 VOLT AUTOMATIC SPEED/CHARGE TRICKLE CHARGER

This compact charger offers efficient Speed/Charge technology and the convenience of multiple battery connectors. Charges small motorcycle, ATV, snowmobile and lawn tractor batteries. Maintains small and large, stored or antique/classic-car batteries.

- 3 amp trickle charge rate for 12 volt batteries
- Reverse-hookup protection
- Versatile quick-disconnect harness with three connectors
- 50 amp clamps for top and side post batteries
- 12 volt accessory plug for in-car charging or charging portable power jump starters - charges them faster than provided charger
- Ring connectors for permanent connection

SHU SC300A



SPEED/CHARGE AUTOMATIC MICROPROCESSOR CONTROLLED CHARGER/MAINTAINER

Unique automatic battery charger maintains both 6 and 12 volt batteries keeping them at full charge using float mode monitoring. Perfect for charging small batteries. Great for maintaining small and large batteries kept in storage - motorcycles, classic cars, RVs, and boats. Quick-disconnect harness; snap either connector into place in seconds. Use the 50 amp clamps or permanently attach the ring connectors... great for hard-to-reach motorcycle batteries.

- 1.5 amp charger and maintainer
- LEDs indicate: charging, charged and trouble
- Automatically switches from full charge to float-mode monitoring
- Quick-Disconnect Harness - Snap either connector into place in seconds - Use the 50 amp clamps or permanently attach the ring connectors...great for hard-to-reach motorcycle batteries
- Reverse hookup protection

SHU SEM1562A



80 AMP MICROPROCESSOR CONTROLLED CHARGER

- Microprocessor controlled automatic charging
- 6 volt and 12 volt batteries
- Designed for flooded, AGM, and Gel cell batteries
- Patent pending "thermal runaway" protection and algorithms allows fast and safe charging
- Four distinct charging modes
 1. FAST charge - 35 minutes for automotive and marine batteries
 2. FULL charge - for automotive and marine batteries
 3. FULL charge - for lawn tractor/ motorcycle/ ATV batteries
 4. GEL FAST charge for Gel cell batteries
- Charge complete audio alarm and LED
- Countdown timer to show time of charge remaining
- Shows charger mode selections and battery voltage upon startup
- Heavy-duty cables - 7', 4 gauge ultra-flexible welding quality cables with a 125 amp polarized quick connect connector
- UL approved

SHU INC800A





10/30/200 AMP 6/12 VOLT MANUAL BENCH TOP CHARGER WITH ENGINE START

- 200/30/10 amp bench top manual starter/charger with timer
- Charges 6 and 12 volt batteries
- Large face, clear-view amp meter has easy-to-read graduated scale
- 600 amp heavy-duty chrome plated steel ultra-grip clamps with plastic coated handles and heavy gauge spring for conductivity and long life
- 6' heavy-duty, commercial gauge TPE welding grade cables for minimal current loss for flexibility in cold temperature
- 9' AC line cord for greater accessibility and reach
- Durable steel cabinet

SHU PSC2030T



12 VOLT MANUAL BENCH TOP FARM/RANCH CHARGER

High-output, portability and 6 and 12 volt capabilities make this a popular all-steel, bench-style charger. 200 amp engine start means you can start all engines in the dead of winter.

- 200 amp engine start for emergency starting
- 30 amp charge for very fast charging; charges in 1 to 3 hours
- 10 amp fast charge for everyday charging needs; charges in 3 to 5 hours
- Five function volt/rate selector
- Back-lit, impact-resistant color-coded meter for easy viewing day or night

SHU SE3010



MANUAL OPERATION MULTIPLE BATTERY CHARGER

For multiple battery cars, fleet and industrial operations, where charging several batteries is daily routine and portability is a must. Charge up to 12 batteries in a series all at once - 72 volts total. Dual-rate output. Has overload and short-circuit protection via fuse.

- 10 or 5 amp rate
- Includes five jumpers for connecting batteries in series
- Charge up to six 12 volt or twelve 6 volt batteries
- Rotary switch settings for 12, 24, 36, 48, 60, 72 volt on and off position

SHU SE1072



AUTOMATIC BATTERY TEST AND FAST CHARGER

The perfect combination of a battery tester and fast charger. Fully automated, just connect the battery, enter the battery rating and temperature, and the unit will automatically perform a test and charge analysis. If the battery needs charging before testing, the XTC1500ZR will automatically perform that function utilizing Auto Meter's fast charging protocol. Most batteries can be diagnosed and fully charged in under 30 minutes!

Applications	6/12 volt automotive, marine, and commercial batteries
6 volt tests	Battery check and load test/fast charger
12 volt tests	Battery check and load test/fast charger
Battery CCA range	200-1600 CCA
Memory	Last 100 tests
Voltmeter range	0-30 with .01 resolution
Battery voltage	6 and 12 volt batteries
Charging station	1
Input voltage	115 volts AC
Output amperage	0-80 Amps
Output control	Microprocessor

AUM XTC1500ZR



Bench Top Chargers & Maintainers



2/10/50A 12 VOLT AUTOMATIC CHARGER WITH ENGINE START

Fully automatic 12 volt starter/charger that has LED lights to keep you informed of charger's operation.

- 50 amp engine start - for emergency starting
- 10 amp fast charge - for everyday charging needs; charges in 3 to 5 hours
- 2 amp trickle charge - charges a small 12 volt battery in 2 to 12 hours
- 2 LED lights - signal power on and fully charged
- Fully automatic - will not overcharge batteries

SHU SE5212A



10/2 AMP FULLY AUTOMATIC DUAL-RATE BATTERY CHARGER WITH LEDS

This economical 12 volt charger can be used two ways: manual or fully automatic. No overcharging worries when in fully automatic mode.

- 10 amp fast charge for everyday charging needs - charges in 3 to 5 hours
- 2 amp trickle charge - charges a small 12 volt battery in 2 to 12 hours
- LED light - signals "Fully Charged"
- Fully automatic - will not overcharge batteries

SHU SE520MA



50/10/2 AMP MANUAL STARTER/CHARGER

- 50 amp engine start for emergency starting
- 10 amp fast charge for everyday charging needs - charges in 3 to 5 hours
- 2 amp trickle charge - charges a small 12 volt battery in 2 to 12 hours
- Three-function power switch

SHU SE1052



6/2 AMP DUAL RATE MANUAL CHARGER

- Charges both 6 and 12 volt
- 6 amp medium charge rate for most everyday needs; charges in 6 to 8 hours
- 2 amp trickle charge; charges a small 12 volt battery in 2 to 12 hours

SHU SE82-6



BATTERY EXTENDER

- Micro-controlled charging with one amp charge and 250 milliamp charge to keep the battery at a perfect full charge
- Dead battery warning to warn of bad cells or a sulfated battery by flashing the charge light
- Maximizes battery life by preventing premature sulfation

AUM 9202



BATTERY CHARGER/MAINTAINER

5 amp, 24 volt fully automatic, microprocessor controlled charger. Perfect for mobilized wheelchairs, electric scooters, hospital beds and other battery powered devices with hard to access batteries

- Charges 24 volt lead acid, AGM and Gel cell batteries
- Designed to be mounted to a flat surface
- Includes quick disconnect battery clamps, ring terminals and 3-pin XLR 3-12C cables
- Charger status LED indicators
- Multi-stage charging algorithm
- Safe start, reverse polarity and short circuit protection - the charger will not apply current to the battery clamps until they are properly connected
- Maintain mode - monitors the battery voltage to keep it fully charged
- Patent pending "thermal runaway" protection
- UL/CUL approved

SHU INC2405

1.5 AMP ON BOARD AUTOMATIC BATTERY CHARGER

Keeps 12 volt batteries charged. Fully automatic. Turns on and off as needed. Allows safe charging of RV, deep-cycle or most batteries that may have a long storage period. "On-Board" feature allows mounting of charger next to battery on collectibles, street rods and other infrequently used vehicles. Hardware and mounting brackets are included.

- 1.5 amp trickle charge rate - charges in 2 to 12 hours
- LED lights - indicate "Power On" and "Charged"
- Reverse-hookup protection
- Short leads for safety - won't get tangled in moving engine parts

SHU SE1-12S



ADVANCED BATTERY CHARGING SYSTEMS

The world's most technologically advanced battery chargers. We make chargers that fully charge a battery then automatically switch to a maintenance mode when the charge is complete! There has been some confusion in the battery charger world that some of our chargers are simply maintainers ---- NOT TRUE! Each and every Deltran Battery Tender Battery Charger® regardless of its size is programmed with a microprocessor that will correctly charge a battery then automatically switch to a maintenance/float mode.



BATTERY TENDER JUNIOR AUTOMATIC BATTERY CHARGER

The Battery Tender Junior is much more than a trickle charger. It has a brain. It's lightweight, compact, and fully automatic; very easy to use, especially in small spaces. It will keep your battery fully charged so that it is ready to go when you are! Perfect for all lead-acid, flooded or sealed maintenance free batteries (AGM and gel cell). Automatically switches to float/maintenance voltage after fully charging the battery. If the battery voltage drops too far under load, full charger output power resumes. Solid State two color LED indicates stage of charger. Spark proof, reverse polarity protected, and has a 12' output cord.

BTD 021-0123



BATTERY TENDER AUTOMATIC BATTERY CHARGER

This compact 800 mA battery charger has all the charge characteristics of its cousin the Battery Tender Junior. It incorporates highly efficient surface mount technology electronic components. The interior is completely encapsulated, protected from shock, vibration, and moisture by an electrically insulating, thermally conductive, flame retardant, UL recognized, synthetic epoxy resin compound. It's tough, affordable, and a strong, innovative battery charging solution. "Supersmart Technology" this unit is spark proof, short circuit protected, reverse polarity protected, fully waterproof, and weighs only a pound.

BTD 022-0150



BATTERY TENDER PLUS AUTOMATIC BATTERY CHARGER

The Battery Tender Plus is a 1.25 Amp battery charger designed to fully charge a battery and maintain it at proper storage voltage without the damaging effects caused by trickle chargers. Included is a quick connect harness for hard to reach areas. Temperature compensated to ensure optimum charge voltage according to ambient temperature. Automatically switch from full charge to float charging mode. The Plus at 1.25 amps will charge as fast or faster than any 3 amp charger available. Reverse polarity protection ensures user safety and red and green lights alternately flash in this condition. Complete four step charging program (initialization, bulk charge, absorption mode, float mode).

BTD 021-0128



FIVE BANK COMMERCIAL BATTERY MANAGEMENT SYSTEM

- Simultaneously charges and/or maintains up to five 12 volt batteries, with 12 volts/2 amps per charging bank
- 6' lead with clamps included, along with a three year warranty
- Maintains batteries at full charge without overcharging via its four step charging system
- Spark-free design via microchip circuitry that will not activate output voltage until clips are correctly connected to battery
- Reverse polarity protection and a built-in 72 hour safety timer that ensures batteries attain float mode status

BTD 021-0133 Factory Direct



BATTERY CHARGERS*



12 VOLT HIGH FREQUENCY BATTERY TENDER AGM

- Battery chargers, golf cart and industrial for 12, 24, 36 and 48 volt batteries
- Suitable for industrial and commercial operation

BTD 022-0160 Factory Direct

Battery Chargers



WHEEL STYLE

Part #	Battery Type	Voltage	Charge Type	Charge Amps	Additional Features	Engine Start	Page #
SHU PSW2550	Standard	6/12	Manual	50A/10A		125A-6V, 250A-12V	22
SHU PSW3060	Standard	6/12	Manual	60A/30A		200A-6V, 300A-12V	22
SHU PSW70300A	Standard, Deep Cycle, AGM, Gel Cell	12	Manual/Auto/Microprocessor Controlled	70A/40A/20A		300A	22
SHU PSW61224	Standard	6/12/24	Manual	80A/65A/30A		180A-6V, 250A-12V	22
SHU SE3000	Standard	6/12/18/24	Manual	80A/60A/40A/30A		150A-6/24V, 200A-12V	23
SHU SE8050	Standard	6/12	Manual	60A/30A/4A		200A-6V, 300A-12V	23
SHU SE4020	Standard	6/12	Manual	40A/10A/1A		100A-6V, 200A-12V	23
SHU SE2352	Standard	12	Manual	35A		200A	23
SHU SE4022	Standard	6/12	Manual	40A/10A/2A		100A-6V, 200A-12V	23



SPEED CHARGERS

SHU SC300A	Standard, AGM, Gel Cell	12	Auto/Microprocessor Controlled	3A	Small Battery		25
SHU SC600A	Standard, AGM, Gel Cell	6/12	Auto/Microprocessor Controlled	6A, 4A, 2A			25
SHU SC1200A	Standard, Deep Cycle, AGM, Gel Cell	12	Auto/Microprocessor Controlled	12A, 8A, 2A			25
SHU SC8020A	Standard, Deep Cycle, AGM, Gel Cell	12	Auto/Microprocessor Controlled	10-20A, 2A	Hybrid	80A	25



BENCH STYLE

SHU PSC2030T	Standard	6/12	Manual	30A/10A		200A-12V	26
SHU SE520MA	Standard	12	Auto	10A/2A			27
SHU SE82-6	Standard	12	Manual	6A/2A			27
SHU SE1072	Standard	6/12	Manual	10A/5A	Multi Battery		26
SHU SE1052	Standard	12	Manual	10A/2A	Charger/Starter	50A	27
SHU SE5212A	Standard	12	Auto	50A/10A/2A	Charger/Starter	50A	27
SHU SEM1562A	Standard, AGM, Gel Cell	6/12	Auto/Microprocessor Controlled	1.5A	Small Battery Quick Charger		25
SHU SE1-12S	Standard	12	Auto	1.5A	On Board Maintainer		27
AUM XTC1500ZR	Standard, AGM, Gel Cell	6/12	Auto	0-80A	Load Tester		26



SPECIALTY

SHU INC406A	Standard, AGM, Gel Cell	6/12	Auto/Microprocessor Controlled	6A	4 Battery Charging Station		24
SHU INC2405	Standard, AGM, Gel Cell	24	Auto/Microprocessor Controlled	5A	Microprocessor Charger		27
SHU INC812A	Standard, AGM, Gel Cell	12	Auto/Microprocessor Controlled	2-12A	8 Battery Charging Station		24
SHU INC800A	Standard, Deep Cycle, AGM, Gel Cell	6/12	Auto/Microprocessor Controlled	80A	Microprocessor Charging Station		25
SSB CHARGER	Standard, AGM, Gel Cell	12	Microprocessor Controlled	0.250A	Multiple Battery		24



MARINE

SHU SS15A20B	Marine, Standard, Deep Cycle, AGM, Gel Cell	12	Auto	15A	Dual Bank		24
SHU SS51A-PE	Marine, Standard, Deep Cycle	12	Manual/Auto	10A			24
SHU SSC1500A	Marine	12	Auto	50A/10A/2A	Speed Charger		24



MAINTAINER

AUM 9202	Standard	12	Auto	1A/0.250A			27
BTD 021-0123	Standard, AGM, Gel Cell	12	Auto	0.750A			28
BTD 022-0150	Standard, AGM, Gel Cell	12	Auto	0.800A	Waterproof		28
BTD 021-0128	Standard, AGM, Gel Cell	12	Auto	1.25A			28
BTD 021-0133*	Standard, AGM, Gel Cell	12	Auto	2A	Multiple Battery		28
BTD 022-0160	Standard, AGM, Gel Cell	12/24/36/48	Auto	20A			28

*Factory Direct

HOW SOLAR WORKS



INCLUDES: 1 Solar Battery Maintainer



12 VOLT SOLAR BATTERY MAINTAINER

- Maintains car, SUV, boat, ATV and PWC batteries
- Maximum power output: 1.8 watts 125 Mah
- Temperature range: -40° to 176° F
- 19-5/8" L x 6-1/2" W x 1-1/8" H

SUN 50012

12 VOLT SOLAR POWER SPORTS CHARGER

- For motorcycles, PWC, ATVs, snowmobiles and tractors
- Maximum power output: 1 watt
- Weatherproof
- Easy connection to the battery
- 19-1/2" L x 5-7/8" W x 1-1/2" H

SUN 50013



5 WATT SOLAR BATTERY TRICKLE CHARGER

- SUVs and RVs
- Plugs into 12 volt DC plug or directly to the battery
- Maximum power output: 5 watts and 350 Mah
- Works in all daylight conditions
- 18" L x 1-1/2" W x 14-1/2" H

SUN 50022



SOLAR PANEL

The 15 watt solar charging kit works with cars, RVs, boats, tractors, ATVs, electric fences, deer feeders, and much more! The unit is maintenance free and easy to install. Works in all weather conditions, and the ultra bright blue LED light provides charging indication. Has a built in blocking diode to protect battery discharge at night. Made of durable ABS plastic with an amorphous solar cell. The temperature range is -40° to 176° F. Max output: 15 watts, 1 amp. Includes: 15 watt solar charging panel, precut holes for easy installation, four stainless steel screws, battery clamps, CLA adapter, and 12' of wire.

SUN 50032

15 WATT SOLAR BATTERY CHARGER KIT WITH 7 AMP CHARGE CONTROLLER

- Comes with 7 amp charge controller
- 15 watt 12 volt
- Works with automobiles, RVs, boats, tractors, ATVs and more
- Built-in blocking diode protects battery discharge at night
- 38" L x 13-1/2" W x 1-1/2" H

SUN 50033



SOLAR 60 WATT BACK UP

Ideal solar charging kit for cabins, remote power, backup power, 12 volt battery charging, RVs, and boats. Works in all weather conditions and are easy for anyone to install. The built-in blocking diode protects battery discharge at night. Made of durable ABS plastic with an amorphous solar cell. Kit includes: four 15 Watt Solar Panels, PVC mounting frame, 7 amp charge controller, 200 watt inverter, wiring and connecting cables.

SUN 50048

DIGITAL CHARGE CONTROLLER

Ideal solution for preventing overcharging of your 12 volt batteries and protecting solar panels. Contains a digital display. Keeps your batteries properly fed and safe for the long term. Charge controllers block reverse current and prevent battery overcharge, and also prevent battery over discharge, protect from electrical overload, and/or display battery status and the flow of power.

SUN 60012



COMMERCIAL JUMP STARTERS

In fleet and heavy-duty implement service, you often get just one chance to avoid a major downtime disruption. In those situations, smart techs call in the heavy artillery to do it right the first time. And nothing delivers the power like SOLAR commercial starting equipment. From 12 volt starting for fleets with a wide variety of vehicles to mixed 12/24 volt construction equipment settings where time really is money, maintenance supervisors depend on SOLAR to keep them running, over and over again.

SOLAR 



FACTORY DIRECT

12 VOLT COMMERCIAL CHARGER/STARTER

Commercial-grade, heavy-duty battery charger and jump starter designed to maximize space and deliver convenience in the shop. It features 5' retractable jumper cable leads made of #2 gauge welding cable and a heavy-duty 10 amp charger, all in an easy to maneuver, space-saving design.

- Automatic 10 amp battery charger
- Jump starting based on battery installed
- 5' retractable jumper cable leads
- Requires Group 31 battery (not included)
- One year limited warranty

SOL 2001 Factory Direct



FACTORY DIRECT

12 VOLT COMMERCIAL CHARGER/STARTER WITH AIR COMPRESSOR

Replaces the three most common items used in a garage: jumper cables, battery chargers and air tanks. To save space and labor costs, the 3001 incorporates 5' retractable jumper cables, a heavy-duty 10 amp charger and an automatic shut-off air compressor that can inflate a 14" car tire in less than two minutes!

- Automatic 10 amp battery charger
- Jump starting based on battery installed
- 150 psi air compressor with automatic shut-off switch
- 5' retractable jumper cable leads
- Hands-free clip-on air chuck
- Requires Group 31 battery (not included)
- One year limited warranty

SOL 3001 Factory Direct



FACTORY DIRECT

HEAVY TRUCK 12/24 VOLT COMMERCIAL CHARGER/STARTER

This is the "Big Boy" of wheeled jump starting units and is specifically designed for the over-the-road transportation industry. It exceeds the challenges of frigid weather and delivers instant raw power of 1400 cold cranking amps in 12 volt mode and 800 cold cranking amps in 24 volt mode.

- Automatic 10 amp battery charger
- 1400 cold cranking amps in 12 volt mode
- 800 cold cranking amps in 24 volt mode
- 10' jumper cable leads
- Ships with two Group 31 batteries
- One year limited warranty

SOL HT1224 Factory Direct

HEAVY TRUCK 12/24 VOLT FIX MOUNT COMMERCIAL CHARGER/STARTER

Providing endless jump starts for commercial fleets or heavy construction equipment, this unit will start any 12 volt or 24 volt engine. Recharge with AC current or connect permanently to the vehicle's 12 volt alternator.

- Automatic 10 amp battery charger
- 1800 cold cranking amps in 12 volt mode
- 900 cold cranking amps in 24 volt mode
- 16' jumper cable leads
- Ships with three group 31 batteries
- One year limited warranty

SOL FMB1224 Factory Direct



FACTORY DIRECT

BOOSTER PAC JUMP STARTERS

When a technician reaches for a jump starter, it needs to work... every time. That's why technicians reach for a Booster PAC or Truck PAC jump starter more often than anything else. The ES Series batteries found in Booster PAC units are specifically designed for vehicle jump starting applications, enabling them to stand up to repeated professional use over long periods of time. In the shop, in the fleet garage or on the construction site, Booster PAC jump starters earn their reputation of dependable excellence jump after jump.

- DC outlet to power 12 volt accessories
- One year limited warranty
- Industrial Grade Hot Jaw™ clamps
- Automatic recharging
- ES Series battery designed specifically for vehicle jump starting
- LED battery status indicator



900 PEAK AMP 12 VOLT JUMP STARTER

Easy to use and lightweight, it is the ideal entry level professional jump starter. Its compact size, rugged case and ability to jump up to five vehicles on a single charge make the ES2500 a perfect companion for any situation in which you need portable power.

- 900 peak amps
- 21" #4 AWG cables

SOL ES2500



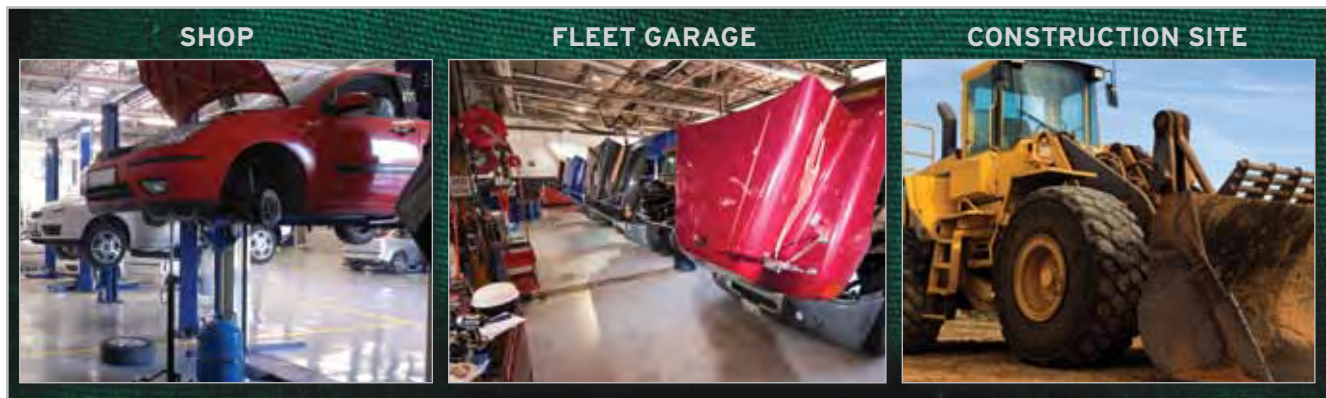
1500 PEAK AMP 12 VOLT JUMP STARTER

With a high performance battery and up to 1500 peak amps, the ES5000 is the Booster PAC for professionals who need serious starting power. Multiple jumps between charges and 43" cables make the ES5000 as convenient as it is powerful.

- 1500 peak amps
- 400 cranking amps
- 43" #4 AWG cables

SOL ES5000

CHARGERS



INDUSTRIAL GRADE JUMP PAC

Works in all seasons. Twelve volt or 24 volt batteries work for all your jump starting needs. With the 12 volt dedicated ES6000 and the 24 volt dedicated ES8000, you've got a matched pair for fleets and implement dealerships with a steady diet of mixed voltage jump starting. The Truck PAC series features extra long cables, enabling the operator to easily reach the starting points on a wide variety of vehicles. In addition, all units feature automatic charging for easy unit management.

- ES Series battery designed specifically for vehicle jump starting
- LED battery status indicator
- DC outlet to power 12 volt accessories
- One year limited warranty



3000 PEAK AMP 12 VOLT

Our high capacity 12 volt Truck PAC model, the ES6000, delivers 3000 peak amps of starting power. Features ES Series batteries, specifically developed for vehicle starting applications. ES Series batteries deliver high output current, extended cranking power, numerous jumps per charge and a long service life. Also features extra long cables for ideal positioning during jump starting and Industrial Grade Hot Jaw™ clamps for maximum power transfer to the vehicle.

- 3000 peak amps
- 54" #4 AWG cables

SOL ES6000



3000 PEAK AMP 12/24 VOLT

Easy to use and versatile, the ES1224 switches from 12 to 24 volts with the turn of knob, all without sacrificing one bit of power. With 3000 peak 12 volt amps and 1500 peak 24 volt amps, the Truck PAC will get the job done. Features automatic recharging, 60" cables, and Industrial Grade Hot Jaw™ clamps for efficient power transfer to the vehicle. AWS Advanced Warning System™ alerts the operator to unsafe jump starting conditions.

- 3000 peak amps/800 cranking amps in 12 volt mode
- 1500 peak amps/400 cranking amps in 24 volt mode
- Integrated voltage selection switch
- 60" #2 AWG cables

SOL ES1224



1500 PEAK AMP 24 VOLT

This high performance unit offers dedicated 24 volt power when you want it, where you want it. Dual high performance ES Series batteries offer extended cranking power and superior performance. Automatic charging means it's easy to keep your Truck PAC ES8000 in an "always-ready" state.

- 24 volt operation
- 1500 peak amps, 400 cranking amps
- 54" #4 AWG cables

SOL ES8000 Factory Direct



CHARGERS

Charger with small jack

Uses a small jack connection to a port in the rear of the unit to recharge the Booster PAC.

110 Volt Charger for use with ES2500

SOL ESA22

110 Volt Charger for use with ES5000

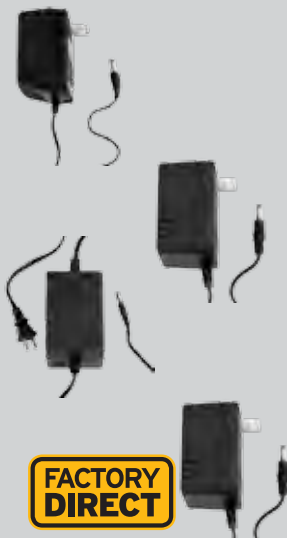
SOL ESA217

110 Volt Charger for use with ES6000 and ES8000

SOL ESA26

110 Volt Charger for use with ES1224

SOL ESA210 Factory Direct



ES SERIES REPLACEMENT BATTERIES

ES Series battery designed specifically for vehicle jump starting. Will deliver professional performance time after time, multiple jumps per charge and long service life. Always use a genuine Booster PAC/Truck PAC battery for replacement to maintain peak performance.

Replacement Battery for ES2500

SOL ES1217

Replacement Battery for ES5000

SOL ES1230

Replacement Battery For ES6000, ES1224 and ES8000

SOL ES1240



250 WATT INVERTER

- One grounded three conductor 110 volt AC outlet
- 25 amp replaceable fuse
- Power source for cars, SUVs, trucks, RVs and boats

RLY 7559



GAME DAY POWER STRIP INVERTER

- 200 watt continuous power
- 400 watt peak power
- Three convenient 120 volt power outlets with covers
- Two USB power ports
- Green LED Indicator shows when power is on
- Red LED Indicator for fault conditions
- 8' power cord with male plug

RLY 7460



400 WATT INVERTER

- Mobile power source for cars, SUVs, trucks and boats
- 400 watt continuous power
- 800 watt peak capacity
- Dual 110 AC volt outlets with On/Off switch
- USB port
- LED status indicator for power and fault conditions
- Aluminum housing
- DC power plug and battery clips included
- Overload and thermal protection prevents damage
- User replaceable fuse

SS 7444



800 WATT INVERTER

- Mobile power source for cars, SUVs, trucks and boats
- 800 watt continuous power
- 1600 watt peak capacity
- Dual 110 volt AC outlets with On/Off switch
- LED status indicator for power and fault conditions
- Aluminum housing
- Battery clips included
- Overload and thermal protection prevents damage
- User replaceable fuse

SS 7448



POCKET INVERTER

- Compact 100 watt continuous power output AC/DC power inverter with peak output at 200 watt
- Adjustable side-connecting plate for the DC plug to fit into different cigarette lighter output receptacles
- Built-in thermal protection and overloading protection to protect the power inverter and vehicle
- Swivel plug for different direction
- 12 volt DC power plug
- Standard electrical 110 volt AC outlet
- High-speed cooling fan
- Green LED indicator
- Mini inserting blade fuse as 15 amp

SS 44101



200 WATT VEHICLE CUP POWER INVERTER WITH USB PORT

Features

- Unique cup holder design
- 200 watt continuous power
- 400 watt peak capacity
- Low battery shutdown prevents battery drain
- Convenient cup design for most vehicle's cup holder
- Dual 110 volt AC power outlet with cover
- 12 volt DC power outlet with cover
- USB port with cover
- LED status indicator for power and fault conditions
- Overload and thermal protection prevents damage
- User replaceable fuse

RLY 7413

Inverters

1000 WATT PURE SINE WAVE INVERTER

The 1000 watt pure sine wave inverter is the tool you need to provide stable power to run a pump or mini motor that a modified sine wave inverter cannot. Excellent for powering home appliances directly from your 12 volt battery; DC to AC pure sine wave. With 2000 watts of high surge power, this product is the perfect solution for power failure emergencies. Features numerous safety features including an overload alarm and LED light, a soft start system, low battery shut down, DC input overload voltage, output overload, overload temperature, short circuit shut down, and a high speed cooling fan. Equipped with two 110 volt household electrical outlets, this inverter is so advanced that it is patented. Provides continuous power of 1000 watts and has a 2000 watt surge power capability. Includes a full product manual, and a DC/AC power inverter remote control modular connector cable and key chain remote.

SUN 11240



1200 WATT INVERTER WITH CLIPS

Features

- Mobile power source for cars, SUVs, trucks and boats
- 1200 watt continuous power
- 2400 watt peak capacity
- Dual 115 volt AC outlets with cover
- LED meter for input battery voltage and output wattage
- USB port
- Built-in front and rear mounting brackets
- Aluminum housing
- High and low voltage protection
- Overload and short circuit protection

RLY 7466



2000 WATT INVERTER

Features

- Mobile power source for cars, SUVs, trucks and boats
- 2000 watt continuous power
- 4000 watt peak capacity
- Dual 115 volt AC outlets with cover
- LED meter for input battery voltage and output wattage
- USB port
- Built-in front and rear mounting brackets
- Aluminum housing
- High and low voltage protection
- Overload and short circuit protection

RLY 7477



3000 WATT INVERTER

Features

- Mobile power source for cars, SUVs, trucks and boats
- 3000 watt continuous power
- 6000 watt peak capacity
- Dual 115 volt AC outlets with cover
- LED meter for input battery voltage and output wattage
- USB port
- Built-in front and rear mounting brackets
- Aluminum housing
- High and low voltage protection
- Overload and short circuit protection

RLY 7478

POWER INVERTER CABLE HARDWARE KIT

Features

- AWG #2 copper cables
- Color-coded polymer sheathing
- Fuse block with clear polymer cover
- 300 amp ANL fuse
- 2000 watt continuous load rating
- Cable lengths: 6'

RLY 7436



AC TO DC POWER INVERTER

For converting AC household electricity to DC battery power. Converts 110 volt AC wall outlet into a 12 volt DC plug. Use your 12 volt products at the home, office or on the road. Output: 12 V DC-5.8A. Input: 100-120VAC. 50/60Hz 1.8A. Use with coolers, spotlights, fans, cell phones, and much more!

SUN 55522



135 AMP BATTERY LOAD TESTER

- Test 6 and 12 volt batteries, hardtop batteries, maintenance free batteries and discharged batteries
- Completely portable, no outside power required
- Built-in starter tester
- Complete test done in 30 seconds

SS 44200



130 AMP HEAVY-DUTY BATTERY LOAD TESTER

Applying an industry leading 130 amp load, this ergonomically designed, heavy-duty battery tester provides accurate, reliable test results in just 10 seconds. It includes uniquely designed clamps for a positive grip on top and side post batteries and an extra large, easy to read display.

Features and Benefits

- 130 amp load capacity for accurate results
- 0-16 volt range
- Uniquely designed clamps for both top and side post batteries
- Extra large display with zero adjust
- Works on both 6 volt and 12 volt batteries
- Ergonomic handle design
- Side tabs for on tool clamp storage
- Back brackets for tool storage on wall or toolbox

OTC 3181



ELECTRONIC BATTERY AND SYSTEM TESTER

Features an operating range of 7 - 15 volts and the capacity to test batteries rated between 100 - 1200 CCA. It adds the convenience of starting and charging system testing and offers quick assessment, providing both a numerical result and a pass/fail LED result.

- Small, portable, pocket-sized
- Tests multiple battery types
- Bright four digit LED light display
- Reverse polarity and over voltage protection
- One year limited warranty

SOL BA7



POWERSPORTS BATTERY AND ELECTRICAL SYSTEM TESTER

Only the Midtronics PBT series professional battery tester offers the advantages of OEM technology at a toolbox price. Provides the easiest to use powersports battery testing you'll find anywhere. Offers many benefits, including:

- A quick, accurate test decision in seconds without heat, sparks, or user interpretation
- 2.3-30 Amp/hr, 10-500 CCA
- Motorcycle and recreation batteries
- Accurate battery test decision in seconds
- Simple reference number based testing
- Testing of discharged batteries

MTR PBT50



BATTERY AND ELECTRICAL SYSTEM ANALYZERS

With the PBT100 technicians can accurately and quickly test batteries, even when discharged. The unit is activated by simply connecting clamps to the battery, setting the rating and pressing the test button. In seconds, the PBT100 will display an accurate test decision.

- Measurement range from 200-850 CCA
- Accurate battery test decision in seconds
- No user interpretation required
- Voltmeter mode for testing both the starter and the charging system
- Economical price

MTR PBT100



PROFESSIONAL BATTERY TESTER

The PBT300 brings even more of the power of Midtronics battery and electrical system testing technology to the technician's hand. It includes all the features of the PBT100, plus:

- Shows available power in CCAs at the end of each test
- Bad cell detection
- High/low voltage capture for improved starter/charging system testing
- Expanded measurement range from 100 - 1400 CCA
- Green and red LEDs give fast decisions on starter and charging system testing
- Starter system testing; pressing the down arrow displays the captured voltage from cranking the engine
- Charging system testing; pressing the up arrow displays the captured high voltage from the alternator

MTR PBT300





DIGITAL BATTERY TESTER

- Utilizes cost effective conductance test technology for accurate testing
- Measures multiple international units: CCA, IEC, DIN, BCI and EN
- Four digit LED display shows good / bad status, available CCAs, and voltage
- Detects and identifies loose leads
- Quick one second initial results
- 125 - 1400 CCA range
- Tests 12 volt batteries
- Surface charge warning
- Detects bad cells
- Temperature and low charge compensation
- Analyze starting / charging system voltages

OTC 3183

BATTERY CHARGING/ STARTING SYSTEM PROFESSIONAL ANALYZER KIT

The BCS system analyzer has an operating range of 50-2000 CCAs and is able to store data in memory or remotely print out the results using an infrared printer interface. It also measures voltage, and tests starting and charging systems at the push of a button.

Features and Benefits

- Utilizes cost effective, conductance test technology for accurate testing at a value price point
- Quick one second initial results
- Tests charging and starting systems 50-2000 CCA range accurate to 5 CCAs
- Tests 6 volt and 12 volt batteries
- Temperature and low charge compensation
- Detects and identifies loose leads
- Supports CCA, IEC, EN, BCI, and DIN scales
- LCD display shows CCAs, voltage, and good/bad status
- Displays results in seven languages
- Built-in infrared printer interface for remote printing
- Detachable cable leads

Includes BCS system analyzer, a 12' extension cable for in cab testing, two voltmeter probes, battery side and threaded post adapters, detachable leads, 9 volt battery, soft sided carrying case.

OTC 3184

BCS System Analyzer Kit with Infrared Printer

Same as OTC 3184, but also includes an infrared printer.

OTC 3185



RUGGED HAND-HELD ELECTRICAL SYSTEM ANALYZER

- Tests 6 volt and 12 volt batteries
- Specifically optimized for use with AGM (Absorbed Glass Mat) batteries
- Tests 12 volt starting and charging systems, offering 200 to 1600 CCA with a 120 amp automated load
- Micro-processed tester utilizes advanced DPL technology for battery testing
- Performs a starter draw test, a load test and both a stator/diode test and regulation test on the alternator
- Features a digital LCD display and a rugged anodized aluminum housing
- Large memory stores the last 200 tests

AUM BVA260

INFRARED PRINTER

Portable infrared printer for use with any of the Auto Meter microprocessed hand-held testers. Comes with AC wall transformer, DC cigarette lighter power cable and thermal paper.

AUM PR15



BATTERY AND ELECTRICAL SYSTEM TESTER WITH VDROP

For automotive and commercial starting and charging systems. Includes external volt leads for automated voltage drop testing.

Applications

6 volt and 12 volt automotive and commercial starting batteries
12 volt starting and charging systems

6 volt tests
12 volt tests

Battery check and load test
Battery check and load test
Alternator stator/diodes and regulation test
Starter draw and automated voltage drop test
Battery CCA range 200-1600

Automated load
40 amp

Alternator test
Stator diode test
Starter draw test
External volt leads
Memory
Voltmeter range
Voltage drop test

Yes
Yes
Yes
Yes
Last 50 tests
0-30 with .01 resolution
Yes

AUM BVA350





DIGITAL BATTERY AND SYSTEM TESTER WITH INTEGRATED PRINTER

Offers a complete testing solution for 6 and 12 volt batteries and 12 and 24 volt charging systems. The tester's integrated printer provides easy service documentation. It features easy, intuitive operation with quick, accurate assessment of battery condition and starting and charging system performance.

- 6 and 12 volt battery testing
- 1.5 - 30 volts operating range
- 40-2000 CCA testing capacity
- Integrated printer
- Extra long 10' leads
- Multilingual operation
- Backlit screen for clear viewing in low light
- One year limited warranty

SOL BA327



SABRE HP BATTERY AND ELECTRICAL SYSTEM DIAGNOSTIC TESTER

Sabre HP is designed to let you quickly diagnose bad batteries in a discharged state without needing to charge them first. By utilizing a SPX micro-load testing method, this tester ensures accurate test results without any interpretation on vehicle battery, starting, and charging systems.

- Digital circuitry precisely controls battery test loads to accurately determine battery conditions using SPX micro-load test technology
- Tests the battery both statically and dynamically with multiple fixed loads
- Accurately tests both absorption glass mat (AGM) and flooded lead acid (FLA) batteries
- Tests vehicle's starting and charging systems with minimal user interaction; automatically applies loads for accurate charging system tests
- Tests all 6 and 12 volt batteries with a 50-2000 CCA operating range
- Tests batteries down to 1 volt state of charge
- Detects bad cells
- Built-in infrared printer interface for remote printing (printer optional)
- Flash upgradeable memory in field
- Reverse polarity protection

Includes SABRE HP, 3' test leads, side post terminal adapters, instruction manual, and molded plastic carrying case.

OTC 3167



SABRE HD BATTERY AND ELECTRICAL SYSTEM DIAGNOSTIC TESTER

- CCA capacity range (50-4000 CCA - 24 volt)
- Tests the following battery pack configurations:
 - One battery (6 volt or 12 volt)
 - Two batteries in series (24 volt); two, three, or four batteries in parallel (12 volt)
 - Two banks in parallel, each bank having two batteries in series (24 volt)
- Tests both FLA (flooded lead acid) and AGM (absorbed glass mat) battery types
- Uses pack configuration in algorithm design
- Step-by-step user instructions for easy test completion
- Tester-applied loads used on all pack combinations

Electrical System Testing

- 12 volt and 24 volt charging system tests
- 12 volt and 24 volt starting system tests
- 12 volt and 24 volt diode tests
- Amp-clamps available (not included) for starting/charging and current draw tests

Features

- User definable - print header and footer
- Removable test cables - easily field replaceable
- PC interface port - allows for field updateable software
- IR compatible - allows optional infrared wireless printer
- Security cable connection - protects against stolen or dropped units.

Sabre HD deluxe kit includes 24 volt heavy-duty battery tester, 15' test leads, instruction manual, molded plastic carrying case.

OTC 3167HD Factory Direct



BATTERY CONDUCTANCE AND ELECTRICAL SYSTEM TESTER

Perform quick, simple, and accurate battery or system tests in seconds without heat, sparks, or user interpretation. The results can then be printed and reviewed immediately with customers for added impact to preventative maintenance routines and customer service. Using patented conductance technology and time-tested reliability, Midtronics testers are required for warranty testing and preventative maintenance at automotive dealers and service providers around the world.

- Integrated printer with user-defined printout header
- Tests 12 volt batteries and electrical systems for cars and light trucks
- Tests starting and charging system voltage and displays results
- Tests batteries from 100 to 900 CCA
- Bad cell detection
- Reverse polarity protection
- Tests discharged batteries down to 1 volt
- Multiple rating system compatible (CCA, DIN, EN, IEC, SAE)
- Tests multiple battery chemistries: standard (flooded), AGM, and Gel
- 19 Languages

MTR MDXP300

Battery Analyzers



MIDTRONICS



BATTERY AND ELECTRICAL DIAGNOSTIC ANALYZER WITH INTEGRATED PRINTER

The Midtronics EXP-800 sets the standard for professional battery and electrical preventative maintenance. Features like easy to use controls, compact size, and an integrated printer, make the EXP-800 the ideal choice for any service shop looking to make preventative maintenance part of their value added solutions. Includes EXP-800 analyzer with integrated printer, 4' cable with clamps, soft-sided case and stud adapters.

New Dynamic Conductance Battery Testing Technology

- Tests 6 and 12 volt batteries including AGM and Gel.
- Combines direct temperature measurement with deep scan technology to improve accuracy and decisiveness
- Advanced preventative maintenance algorithms for identifying batteries as they approach end of life

Advanced Electrical System Diagnostics Featuring Digital Signal Processing

- 12 and 24 volt charging system
- Digital Signal Processing (DSP) creates a digitized picture of the measured alternator output voltage to analyze the amplitude level and frequency of the diode ripple pattern for improved accuracy and identification of open or shorted diodes and open phase conditions, (multiple diode failure or winding problems)

Advanced Communications Capabilities

- Integrated printer to enhance and enforce the selling/service process
- Integrated data card read/write drive for simple software update capability and data storage

Superior User Interface

- Large graphical screen for icons and improved explanations
- Scroll bar capability means fewer overall screens
- Hot keys improve logic and flow

MTR EXP800NAS



MIDTRONICS

FACTORY DIRECT



ADVANCED SYSTEM FOR MULTIPLE BATTERY VEHICLE

Technician can quickly find the problem in the battery, starting or charging system in minutes, not hours. Full test results, including multiple battery tests, can be printed on an optional integrated printer. 15' cable set enables starting and charging system tests to be run from the cab for complete control and simplicity. The analyzer's user-friendly interface intuitively prompts the technician through the entire test sequence quickly and easily.

Vehicle Applications

- Group 31
- Marine cranking
- Commercial 4D/8D

Battery Types

- Regular flooded
- AGM flat plate
- AGM spiral
- Gel

Global Systems

- 6 and 12 volt batteries
- 12 and 24 volt charging system test

Battery Pack Testing

- Test multiple batteries in series without separating the pack
- Routine for testing and reporting individual battery results from multiple battery systems

MTR MDX700HD Factory Direct

BATTERY CONDUCTANCE AND ELECTRICAL SYSTEM ANALYZER

Includes everything from MDX-700HD with the addition of an integrated printer.

MTR MDX700PHD Factory Direct

MIDTRONICS



EXPANDABLE ELECTRICAL DIAGNOSTIC PLATFORM

Diagnose every part of the electrical system, from the battery to the starter and alternator, more accurately and decisively than ever before. This platform combines one of the largest, easiest to read displays in the industry with the full functions of an advanced analyzer, digital multimeter and data management tool...all in the palm of your hand.

Features:

Dynamic Conductance Battery Testing Technology

- Tests 6 and 12 volt automotive and marine batteries (including AGM batteries)
- 12 volt charging system diagnostics
- Combines direct temperature measurement with deep scan technology to improve accuracy and decisiveness

Advanced Electrical System Diagnostics Featuring Digital Signal Processing

- Digital Signal Processing (DSP) provides the ability to analyze the amplitude level and frequency of the ripple pattern for improved accuracy and identification of open or shorted diodes and open phase conditions

DMM Function for Advanced Diagnostics

- AC/DC volts
- AC/DC amps
- Diode test
- Volts/amps mode
- AC/DC amps
- Temperature
- Scope mode

Patented Conductance Cable Drop Test

- Interactive test routines using dual cable sets for more effective analysis of voltage drop across ground circuit, starter system, alternator system, and generic system testing

Enhanced Communications Capabilities

- IR printer option
- Data card reader/writer for future upgrades

Superior User Interface

- Large graphical screen for icons and improved explanations
- Scroll bar capability means fewer overall screens
- Alphanumeric keypad, icon-based menus and hot keys improve logic and flow

inTELLECT™ EXP Battery and Electrical System Analyzer

EXP-1000 Analyzer, amp clamp, 10' battery test cable, DMM clamps and probes, carrying case, and stud adapters.

MTR EXP1000AMP

inTELLECT™ EXP Battery and Electrical System Analyzer Kit

EXP1000 Analyzer, amp clamp, IR printer, 10' battery test cable, 10' cable verification leads, DMM probes, carrying case, and stud adapters.

MTR EXP1000AMPKIT

HIGH SPEED INFRARED PRINTER

For EXP1000, EXP1000HD and HYB1000.

- Complete printout results in seconds
- Infrared (HP IR, IrDA) and RS232 serial port
- High-speed, high-resolution printing capability
- Versatile for use with text or graphics
- Rechargeable batteries
- Supports labels and dual ply paper

MTR A087



MIDTRONICS



HEAVY-DUTY EXPANDABLE ELECTRICAL DIAGNOSTIC PLATFORM

Advanced battery and electrical system diagnostic platform for commercial vehicles. The EXP1000HD is the electrical system pro's best friend. This advanced battery and electrical system analyzer provides proven conductance technology with enhanced testing algorithms for unparalleled accuracy and decision making. With the latest in battery testing technology and improved electrical system testing, the EXP1000HD features:

DMM Function for Advanced Diagnostics

- AC/DC volts
- AC/DC amps
- Diode test
- Volts/amps mode
- Temperature
- Ohm meter
- Scope meter

Patented Conductance Cable Drop Test

Interactive routines using dual cable sets for more effective analysis of voltage drop across chassis ground, starter system, alternator system and generic system testing.

Enhanced Communications Capabilities

- IR printer option
- Data card reader/writer for future upgrades

Advanced User Interface

- Large graphical screen for icons and improved explanations
- Scroll bar capability means fewer overall screens
- Icon-based menus and hot keys improve logic and flow

Program Management Tools

- User ID system to help drive and manage product use
- Enhanced counters report testing data, including lifetime use, results dispersion, and number of tests by user

Specifically Designed for HD/Commercial Fleet Market

- Battery pack testing for effective preventative maintenance testing
- Multiple battery routine: 1-6 batteries included in the test process and on the printed test report
- Special commercial battery algorithms for Group 31, 8D and 4D batteries
- Truck vs. automotive selection sets application-specific parameters for system and cable drop testing

Dynamic Conductance Battery Testing Technology

Combines direct temperature measurements with deep scan technology to improve accuracy and decisiveness.

Advanced Electrical System Diagnostics Featuring Digital Signal Processing

Digital Signal Processing (DSP) provides the ability to analyze the amplitude level and frequency of the diode ripple pattern for improved accuracy and identification of open-phase conditions (multiple diode failure or winding problems).

MTR EXP1000HD Factory Direct

Battery Analyzers



MIDTRONICS

HYBRID BATTERY SYSTEM ANALYZER

The HYB provides technicians with the capability to perform battery service maintenance testing on several leading Hybrid vehicles. Simply connect the wireless convergence communication module to the vehicle's on-board diagnostics port and follow the menu instructions on the HYB. The following test functions are available:

- 12 volt auxiliary battery test
- DTC code reading
- DTC code reset
- Live Data - Run Chart
- Drive test

The drive test is an interactive, menu-driven test that uses live vehicle sensor information while performing an accelerated drive test. The technician can see live results on the tester while performing the test, and print the results to an IR printer at the end of the test.

Why you need the HYB Hybrid Battery System Analyzer:

- Put your shop in the hybrid service business
- One person test - easy to use
- Consistent test across all vehicle manufacturers
- Safe - no exposure to dangerous high voltage
- No training required - follow menu and directions
- Preventative maintenance: Find problem packs and cells before they cause a system failure

MTR HYB100KIT

Same Kit without Printer

MTR HYB1000

For Hybrid Safety Gloves see page 72.

MINUTEMAN PLUS MULTI-PURPOSE ELECTRICAL SYSTEM TESTER

Battery Testing

Works on all 12 volt automotive-type batteries with cold cranking amp ratings of 100-1500. This includes batteries found in motor vehicle, marine, agricultural, forestry, and industrial applications. Operates from either 110 volts AC or its own internal, rechargeable 6 volt battery. Special AGM test options for accurately diagnosing AGM and spiral (six-pack style) batteries. Features self-calibration, an internal battery check, and an automatic shut-down to reduce power consumption. All you have to do is read simple test results on the LCD display.

Starter Testing

Display shows cranking volts and amps, and indicates either "Good Starter" or "Bad Starter." Excessive starter current draw can indicate a defective starter. Excessive engine drag, due to tight or damaged bearings or piston drag, can also cause an abnormally high starter draw.

Charging System Testing

Checks the charging system at high rpm and at idle and stores the data. Results show regulator volts, peak amps, and a diode condition. Utilizes waveform analysis when testing alternator diodes, which provides more accuracy than the commonly used "ripple voltage" tests.

Battery Tachometer Capability

Unique, direct from battery technology gives tachometer readings without having to make complicated connections to the ignition system. Provides battery sensing measurements to 4,000 rpm, with 1 rpm resolution. Multi-application electrical system tester. Includes connector cables, internal rechargeable battery, battery charger, and instructions.

Also includes roll-around cart with two additional shelves for other equipment.

OTC 3131AGM Factory Direct



**FACTORY
DIRECT**

AUTOMATED HEAVY-DUTY CHARGING SYSTEM ANALYZER

The ultimate battery and electrical system tester, incorporating Auto Meter's advanced DPL technology. Can be used for both automotive and heavy-duty applications. Featuring patented automated voltage drop technology, the BVA2100 accurately pinpoints electrical system problems (battery, starter, alternator, wiring, and connections). Product firmware includes J1708 compatibility with optional J1708 cables.

Specifications

Applications	6 and 12 volt automotive, marine, and commercial starting batteries 12 and 24 volt starting and charging systems
6 volt tests	Battery check and load test
12 volt tests	Battery check, load test, alternator stator diodes/regulation test, and starter draw test
24 volt tests	Alternator stator diodes/regulation test, and starter draw test
Battery CCA range	200-1600 CCA
Alternator test	Amperage output and regulated voltage
Memory	Last 300 tests
Voltmeter range	0-30 with .01 resolution
Voltage drop test	Yes/automated
Cooling	Fan cooled
Language	English and Spanish
Ripple test	Yes

AUM BVA2100 Factory Direct





ELECTRONIC CIRCUIT TESTER

Makes locating short and open circuits easier than ever before. Its 20' power lead reaches throughout the vehicle. The two main tools are the "SMART" transmitter and the "SMART" receiver and the set comes with adapters that make connecting to any circuit quick and easy. Detects and alerts you to short and open circuits. Wiggle and flex wires or connectors to detect intermittent circuit conditions. The "SMART" receiver's sensitivity adjustment keeps you on the right circuit and ignores the unnecessary weaker signals. Shows the direction to the short circuit.

Kit includes

- Two AAA batteries
- Battery hook-up clip set
- Universal wire with jack
- Back probe
- Alligator clip set
- Transmitter and receiver
- Three bulb adapters
- Blade probe
- Piercing probe
- Instruction manual on CD

PRP PPECT2000



POWER PROBE III MULTI USE CIRCUIT TESTER

- 42 volt ready
- Voltmeter
- Short circuit indicator
- Continuity tester
- 20' jumper lead set featuring new design heavy-duty connectors
- Test light
- Built-in flashlight
- Relay and component tester
- Bad ground indicator

Includes

Power Probe III, cigarette lighter adapter, 3" extension probe, battery hook-up clips, 20' extension lead, instruction manual, blow molded case.

PRP PP319FTC

MULTIMETER

- Pro quality features help pinpoint engine problems
- Auto-Ranging, auto shut-off, overload protection
- 10 MegOhm impedance prevents damage to ECU
- Tests alternator diodes, duty cycle, solenoids, breaker points, wiring, switches, and more
- Automatic zero adjustment, reverse polarity protection
- Monitors vehicle RPM (including coil on plug vehicles)
- Min/Max and hold buttons save retrieved data
- Unit provides hands-free testing and includes test lead holders
- Rugged corner guards provide drop protection

INN 3340



AUTOMOTIVE DVOM

- Accurate ms-pulse width function to test on-time for fuel injectors, IAC motors, and transmission controls
- Inductive rpm for one to eight cylinders (two or four stroke), inductive clamp included in the kit
- Direct dwell readings and duty cycle. DC volts and mV, AC volts, ohms, continuity, frequency
- Four step adjustable \pm trigger
- 4-1/4 digit display
- Analog bar graph, 41 segment
- Auto ranging, automatic power off, and data hold features

OTC 3514



AUTO RANGING™ DMM

- Auto-Ranging™ scales eliminate the need to dial in the correct range when making electronic measurements
- 10 Megohm input impedance for safe automotive and household uses (i.e., household outlets, fuses, wiring, general-purpose batteries, vehicle battery and charging system, automotive circuits)
- Large digital display
- Single-setting resistance function for voltage (AC and DC)
- Color-coded LEDs display battery quick check GREEN = good, YELLOW = weak, RED = replace
- Includes attachable test leads, holders and stand

INN 3320



HANDS-FREE™ DMM

Use this versatile and affordable tester to safely and accurately troubleshoot a variety of automotive electrical problems.

- 10 MegOhm circuitry prevents damage to sensitive automotive electronics
- Includes test lead holders for hands-free testing
- Automotive uses include: automotive circuits, fuses, wiring, vehicle battery and charging systems, electrical components and more
- U/L listed for safety and quality
- Includes easy-to-read instructions in English, French and Spanish

INN 3300



DIGITAL MULTIMETER

- For use on household appliances, automotive (computer controlled and standard ignitions)
- Features AC and DC volt measurements, DC current measurements, diode test and Ohms
- Complete with two test leads
- Detailed instruction booklet included

PFM W2974



MULTIMETER COMPACT ANALOG TESTER

Performs basic volt and ohm tests.

CTI 85593



1000 VOLT CAT III HYBRID MULTIMETER WITH INSULATION TEST

A full function multimeter with an insulation test feature is used to test for voltage leaks through insulation found on hybrid and electric vehicles.

Features

- Hybrid insulation resistance test
- Auto ranging
- Continuity buzzer
- Data logging
- Min/Max mode
- True RMS
- Diode test
- Data hold
- Display backlight
- Sleep mode

Kit Includes

Heavy-duty class III test leads with alligator clips, short lead, K type temperature adapter and manual.

OTC 3990 For Hybrid Safety Gloves see page 72.



PORTABLE MULTI-METER

- 200 amp DC amp range to measure system output level for advanced starter diagnosis
- Low level DC amp range for easy detection of excessive parasitic drain
- One touch zero button
- Probes pinpoint diagnostics for finding shorts and performing voltage drop tests

MTR AMP100



RELAY TEST JUMPER KIT

Includes four jumpers to fit the most popular size relays on domestic and import vehicles. Simply remove relay to be tested, insert correct jumper and insert relay into jumper. When using green four pin jumper, be careful to align pins on jumper and relay correctly. No need to pierce wires or connect multiple jumper wires. Jumpers have tabs for clamping and flat pads to place test leads on.

LIS 56810



RELAY BOX TEST EXTENSION KIT

Provides a reliable way to pinpoint test relay circuits located in the underhood relay/fuse junction box.

- Extends the relay away from the junction box
- Provides the ability to test the circuit live with the relay in place
- Acts like a mini breakout box for pinpoint testing relay circuits

Includes

- Two large spade terminal extensions
- Six medium relay spade terminal extensions
- Five small relay spade terminal extensions
- Plastic storage case

WAK 77009

RETRACTABLE TEST LEADS

- For testing electrical circuits
- Retractable test leads pull out and stay at desired length
- Rewind test leads when not in use
- Insulated alligator clips
- 18 gauge copper wire

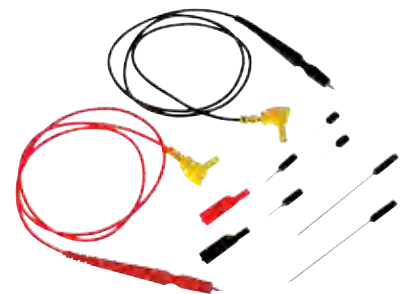
KAS 1140



RELAY TEST JUMPER KIT II

Set makes testing relays or live circuits quick and easy. Set includes four jumpers to fit many popular relays on Honda, Nissan, Toyota, newer Ford and GM mini micro relays as well as International trucks. Set comes in blow-molded case for storage. No need to pierce wires or connect multiple jumper wires. Jumpers have tabs for clamping and flat pads to place test leads on.

LIS 60610



TIGHT SPOT TEST LEAD KIT

Flexible handles easily fit in tight spots. Probe densely packed module connectors without the fear of damage. Use for back-probing connectors and wire piercing. Interchangeable/replaceable probe tips.

Includes

- (2) Screw-on standard probe tips
- (2) 4" Flexible back probe adapters
- (2) Flexible test leads
- (2) Alligator clips
- (2) Acupuncture pin tips
- (10) Replacement pin tips

WAK 77011



TEST LEAD KIT FOR RELAY TEST JUMPERS

Use with 56810 or 60610 to easily and securely connect relay test jumper to a multimeter. Can also use banana plug to pin probe adapter for use with pin probes. Kit contains two terminal to banana tip wires, two pin tip to banana plug adapters and one terminal to banana tip wire with jumper wire. Jumper wire may be used between common and open to close the relay circuit for testing and has a test port to easily check voltage. Also provides access for a clamp-on amp meter.

LIS 69200



INDUSTRIAL SERIES MEMORY SAVER

- On board diagnostics connector (OBD II) plugs directly into vehicle's OBD II port
- Preserves stored fault codes and programmed electronic settings
- Durable 12 volt DC male to male connector
- 7 amp hour battery
- Easy to read battery status LEDs tell when internal battery is at full power
- Built in charger for automatic charging of internal battery
- Convenient Velcro straps
- Lightweight and easily transportable

SHU INC7A-OB2 WARNING- May cause issues with some vehicle anti-theft devices. Refer to the owners manual before using.



MEMORY SAVER ADAPTER CABLE

Easy to use adapter cable connecting from the 12 volt power port on a jump starter to the OBD II connector on the vehicle providing 12 volt power to back up on-board computer memory in devices and accessories during battery replacement.

- Easy to read LED indicates connection
- Extra long 78" cable length
- Increase customer satisfaction
- Provides speedier service

SHU INC12V-OB2 WARNING- May cause issues with some vehicle anti-theft devices. Refer to the owners manual before using.



COMPUTER MEMORY SAVER

Use of this tool when changing or interrupting the power source prevents loss of certain driveability codes, keyless entry codes, digital radio settings, cellular phone settings and other memory related functions. Powered by 9 volt battery or spare auto battery.

SS 08590 WARNING- May cause issues with some vehicle anti-theft devices. Refer to the owners manual before using.



PARASITIC DRAW TEST SWITCH

Using your digital amp meter takes the guesswork out of a complicated job. Attach the test switch between the negative battery cable and the battery, and then road test the vehicle. Next, connect an amp meter to the switch to determine the parasitic amperage draw, and locate the excessive electrical drain on the battery. Works on any vehicle with side or top post batteries.

OTC 7645

BATTERY MONITOR™

- Easily plugs into vehicle's cigarette lighter or power receptacle to monitor battery and charging system voltage
- Designed for 12 volt negative ground systems
- LCD displays measured voltage with a bar graph to indicate battery charge level
- Color-coded LEDs quickly identify battery's charge status
- Head pivots for easy viewing, angle adjustment

INN 3721





ELECTRONIC LED TEST LIGHT

Identifies power, ground and opens on 6, 12, 24 and 42 volt circuits. Quickly find broken wires, blown fuses, bad switches and more! Super bright LED head lamp, great for working under dash, under hood or behind door panels. Microprocessor controlled current loading capability for a true test of powers and grounds. All the advantages of an incandescent test light, but computer and air bag safe. Includes 4" probe extension, screw-on alligator clip, and banana plug.

WAK SST42V



PGI PISTOL PROBE / GROUND TESTER

Verify circuits and component operation for window and lock motors, fuel pumps, cooling fans, lights, horns, solenoids, relays, and most other power accessories.

- Indicates power and ground on 6, 12 and 24 volt circuits
- High intensity head lamp, audible tone beeper, super sharp stainless steel tip

WAK 76100



AST AUTOMOTIVE SIGNAL TESTER WITH LOGIC

Designed specifically for testing computer-controlled vehicles. Tests virtually any circuit on the vehicle.

- The all-in-one quick check tool for no-starts
- Use to verify primary and secondary ignition, pick-up sensors, fuel injectors, fuel pumps, and idle speed control circuits
- Ideal for electrical/electronic accessory installers
- Indicates: ground, 5 volt reference, 6, 12 and 24 volt pulsing signals
- Computer and airbag safe

WAK 76200



SHORT CIRCUIT DETECTOR

Locates short circuits in 6 and 12 volt systems right through upholstery, body panels, and metal door posts.

KDT 2524



CURRENT INDICATOR

Measures alternator and starter DC current in 6, 12 and 24 volt systems. Indicates direction of current flow without breaking into lines.

KDT 2423



HIGH-LOW CIRCUIT TESTER

Checks both low voltage and spark plug wires. The low-side checks AC and DC current up to 28 volts with power on. The high-side checks spark plug wires without piercing. Complete with insulated clip.

LIS 29500



LOW CIRCUIT TESTER

Quick check both AC and DC current up to 28 volts with power on. Helps locate shorts or breaks in wiring. Complete with insulated grounding clip.

LIS 26250



CIRCUIT TESTER KIT

Heavy-duty tester signals with a light and buzzer-tests low voltage up to 28 volts. Also finds electrical shorts, checks polarity, detects battery drain, and checks circuits from a distance.

LIS 28640



DELUXE 12 VOLT TESTER

- Checks 12 volt accessory circuits
- For autos, trucks, trailers and boats
- Test lead with alligator clip

PFM W2975C



HD CIRCUIT TESTER

Includes strain relief spring on cord. Heavy-duty for lifetime use.

LIS 28400



COMPUTER SAFE CIRCUIT TESTER

Safe for automotive computers. Won't damage sensitive electronic components. Draws less than 21mA at 12 volts DC. Operating range 3 - 28 volts. The red light indicates positive polarity, green indicates negative polarity.

LIS 24550



TEST LIGHT/CIRCUIT TESTER

- Helps to quickly identify if there is voltage present on wiring and circuits
- Ergonomic grip design with 6' leads
- Transparent handle shows bright LEDs to identify connections
- Green=ground present
- Red=voltage present

INN 3410



SMART TEST LIGHT

- Designed to safely check voltage and/or ground on several electronic system, including wiring, fuses, battery
- Features ergonomic grip design for comfort and safety
- Connects using a cigarette lighter/power plug and detachable twin alligator clamps
- 6' leads provides long reach connection
- Unique transparent handle shows bright LEDs to identify connections
- White=proper connection to source
- Red=voltage present
- Green=ground present

INN 3420

Battery Cables

BATTERY CABLES

Heavy-Duty Top Terminal w/o Trailing Lead w/ 3/8" Lug Holes

Part #	Gauge	Length	Part #	Gauge	Length
BWD BC112	1	12"	BWD BC140	1	40"
BWD BC116	1	16"	BWD BC153	1	53"
BWD BC121	1	21"	BWD BC165	1	65"
BWD BC127	1	27"	BWD BC178	1	78"
BWD BC134	1	34"			



Lead Free Terminal with Aux. Lead with 3/8" Lug Holes

Part #	Gauge	Length
BWD BCS22	6	22"
BWD BCS30	6	30"
BWD BLF250	4	57"



Lead Free Terminal with 3/8" Lug Holes

Part #	Gauge	Length
BWD BCS618	6	18"



Lead Free Top Post with Center Lug with 3/8" Lug Holes

Part #	Gauge	Length	Part #	Gauge	Length
BWD BLF232	4	34"	BWD BLF233	4	40"
BWD BLF272	4	38"	BWD BLF274	4	49"
BWD BLF235	4	40"			



Lead Terminal with Aux. Lead with 3/8" Lug Holes

4 Ga. Aux. Lead 12 Ga. x 9"	4 Ga. Aux. Lead 8 Ga. x 9"	2 Ga. Aux. Lead 10 Ga. x 11"
BWD BC09T 9"	BWD BLF275 72"	BWD BC230U 30"
BWD BC12T 12"		BWD BC247U 47"
BWD BC16T 16"		BWD BC261U 61"
BWD BC20T 20"		BWD BC265U 65"
BWD BC24T 24"		BWD BC78T 78"
BWD BC30T 30"		
BWD BC38T 38"		
BWD BC42T 42"		
BWD BC48T 48"		
BWD BC53T 53"		
BWD BC58T 58"		
BWD BC65T 65"		
BWD BC73T 73"		



Conventional and Heavy-Duty Top Terminal Cables

4 Gauge/Length	2 Gauge/Length	2/0 Gauge/Length*
BWD BC10X 10"	BWD BC212X 12"	BWD BC18X00 18"
	BWD BC236X 36"	BWD BC24X00 24"
	BWD BC242X 42"	BWD BC30X00 30"
		BWD BC48X00 48"
		BWD BC60X00 60"



Lead Free Terminal with 3/8" or 1/4" Lug Holes

Part #	Gauge	Length	Aux. Lead
BWD BLF268	6	28"	6 Ga. x 11"
BWD BLF211	4	26"	6 Ga. x 15"



Battery Cables

Top Post Battery Cables

Red Packaged	Black Packaged	Gauge	Length
SS SK8410R	SS SK8409	4 Gauge	10"
-	SS SK8412	4 Gauge	12"
SS SK8415R	SS SK8415	4 Gauge	15"
SS SK8419CR	SS SK8420	4 Gauge	20"
-	SS SK8430	4 Gauge	30"



Top Post Battery Cables with Leads

Red Packaged	Black Packaged	Gauge	Length
SS SK8425CR	SS SK8424C	4 Gauge	24"
SS SK8432CR	SS SK8432C	4 Gauge	30"
SS SK8438CR	SS SK8437C	4 Gauge	36"
SS SK8448CR	SS SK8448C	4 Gauge	48"
-	SS SK8452C	4 Gauge	53"
SS SK8456CR	-	4 Gauge	56"
SS 08499	SS SK8469C	4 Gauge	72"



Chrysler Dual Lead Top Post

Red Packaged	Black Packaged	Gauge	Length
-	SS SK8658DC	4 Gauge	60"



Chrysler Dual Lead Top Post with 3/8" Lug Holes

Part #	Gauge	Length	Aux. Lead
BWD BC38C	6 Gauge	38"	6 Ga. x 10" 12 Ga. x 9"
BWD BC48C	6 Gauge	48"	6 Ga. x 10" 12 Ga. x 9"
BWD BC58C	6 Gauge	58"	6 Ga. x 10" 12 Ga. x 9"



Side Post Battery Cables with Leads

Red Packaged	Black Packaged	Gauge	Length
SS 08586	-	4 Gauge	20"
-	SS SK8425S	4 Gauge	25"
SS 08587	SS SK8435S	4 Gauge	35"
SS 08588	SS SK8445S	4 Gauge	45"
SS 08589	SS SK8455S	4 Gauge	55"
-	SS SK8465S	4 Gauge	65"
SS SK8478SR	-	4 Gauge	78"



Side Terminal Battery Cables with 3/8" Lug Holes

Part #	Gauge	Length	Aux. Lead
BWD BC21HD	4	21"	6 Ga. x 14"
BWD BC246HD	2	46"	6 Ga. x 36"



Insulated Side Terminal with 3/8" Lug Holes

Part #	Length	Gauge	Aux. Lead
BWD BC40DD	40"	4 Gauge	12 Ga. x 33" 12 Ga. x 8"
BWD BC243DF	43"	2 Gauge	10 Ga. x 8" Fusible Link w/ 6 Ga. x 24"
BWD BC46DG	46"	4 Gauge	6 Ga. x 19" 8 Ga. x 8"



Battery Cables



Heavy-Duty Side Terminal with Trailing Lead with 3/8" Lug Holes

4 Gauge	2 Gauge	Length
BWD BC20S	BWD BC220S	20"
BWD BC25S	BWD BC225S	25"
BWD BC30S	BWD BC230S	30"
BWD BC35S	BWD BC235S	35"
BWD BC40S	BWD BC240S	40"
BWD BC45S	BWD BC245S	45"
BWD BC50S	-	50"
BWD BC55S	-	55"
BWD BC60S	-	60"
BWD BC66S	BWD BC266S	66"
-	BWD BC278S	78"
-	BWD BC290S	90"



Switch to Starter Cables

Red Packaged	Black Packaged	Gauge	Length
-	SS SK8412SS	4 Gauge	12"
SS 08591	SS SK8418SS	4 Gauge	19"
SS 08592	SS SK8424SS	4 Gauge	24"
SS 08593	SS SK8430SS	4 Gauge	32"
-	SS SK8440SS	4 Gauge	40"
SS 08594	SS SK8448SS	4 Gauge	49"



Switch to Starter Cables with 3/8" Lug Holes

6 Gauge/Length	4 Gauge/Length	2 Gauge/Length	1 Gauge/Length
BWD SCB18 18"	BWD SCB15 15"	BWD SC236 36"	BWD SCH115 15"
	BWD SC18 18"	BWD SC52 52"	BWD SCH118 18"
	BWD SC24 24"	BWD SC78 78"	BWD SCH130 30"
	BWD SC30 30"		BWD SCH152 52"
	BWD SC36 36"		BWD LL160L 60"
	BWD SCB40 40"		BWD LL168L 68"
	BWD SC48 48"		
	BWD SC58 58"		



Switch to Starter Cables with 3/8" and 1/4" Lug Holes

Part #	Length	Gauge
BWD LL12LF	12"	4 Gauge
BWD LL20LF	20"	4 Gauge
BWD BLF319	52"	4 Gauge
BWD SLF101	60"	4 Gauge
BWD SC463	65"	4 Gauge



Golf Cart Battery Cables

Part #	Color	Length
SS 03332	Black	9"
SS 03333	Black	12"
SS 04332	Red	9"
SS 04333	Red	12"

GROUND STRAPS

2 Gauge and 4 Gauge

- For cars, trucks, farm tractors and equipment

2 Gauge Ground Straps

Part #	Length
BWD GC209F	9"
BWD GC214F	14"
BWD GC217F	17"

4 Gauge Ground Straps

Part #	Length
BWD GC408	8"
BWD GC414	14"
SS 08579	14"
BWD GC426	26"

10 Gauge

- For RFI suppression and engine grounding

10 Gauge Ground Straps

Part #	Length
BWD GC413	8"
BWD GC416	18"



Battery Cables



STUD TO POWER TAKE OFF POST MULTIPLE BATTERY CABLE HARNESS

BWD's custom tailored multiple battery harnesses are designed to join multiple batteries together to create a reliable "power pack" for truck starting systems.

Two Battery Harness

Top Post to Power Take-Off Post

Part #	Polarity	Length	Gauge
BWD JC1000	Neg	6.84"	2/0
BWD JC1001	Pos	6.84"	2/0
BWD JC1002	Neg	7.38"	2/0
BWD JC1003	Pos	7.38"	

Stud to Power Take-Off Post

BWD JC1008	Neg	6-13/16"	2/0
BWD JC1009	Pos	6-13/16"	2/0
BWD JC1010	Neg	7-3/8"	2/0
BWD JC1011	Pos	7-3/8"	2/0

Two Battery Harness

Stud to Power Take-Off Post

BWD JC1012	Neg	13-5/8"	2/0
BWD JC1013	Pos	13-5/8"	2/0
BWD JC1014	Neg	14-3/4"	2/0
BWD JC1015	Pos	14-3/4"	

Top Post to Power Take-Off Post

BWD JC1005	Pos	13.68"	2/0
BWD JC1006	Neg	14.76"	2/0
BWD JC1007	Pos	14.76"	2/0

BATTERY CABLE SPLICES

Top Post

One cable with auxiliary lead.

SS 08865 4 Gauge

One cable without auxiliary lead.

SS 08867 1 Gauge

Two cables with auxiliary lead.

SS 08864 4 Gauge

Side Post

One cable with auxiliary lead.

SS 08863 4 Gauge

One cable without auxiliary lead.

SS 08866 4 Gauge

SS 08868 1 Gauge



DUAL BATTERY JUMPER CABLES

Solid Lead Terminals

1 Gauge w/ Brass Core	2 Gauge	2/0 Gauge	Length
BWD JC108F	BWD JC208	BWD JC308	8"
BWD JC112F	-	BWD JC312	12"
BWD JC215	-	-	15"
-	-	BWD JC318	18"
-	-	BWD JC240	24"
-	-	BWD JC360	36"



Ford Diesel Cable Center Die Cast Terminal with Aux. Lead

Part #	Gauge	Length	Aux. Lead
BWD BC116HP	2/0	116"	10 GA. x 22"



MULTIPLE BATTERY HOOKUPS

Truck, Farm and Industrial applications

- Universal application
- Each cable can be used as a "top" or "bottom"

Stud Top Battery Cables

Part #	Length	Gauge
BWD BC209S	9"	2/0
BWD BC215S	15"	2/0
BWD BC221S	21"	2/0
BWD BC222S	22"	2/0

SPECIALTY BATTERY CABLES

Ford diesel dual battery cables.

SS 04357





UNIVERSAL TOP POSTS

SS 7000 Card of 10
SS SK7001



LEAD FREE UNIVERSAL TOP POSTS

SS 08781 Card of 10
SS 01346



COMMERCIAL TOP POSTS

SS 08776 Card of 10

GOLD PLATED TOP POST

SS 01410
Gold Plated Top Post
with Auxiliary Terminal
SS 01412



HEAVY-DUTY TOP POSTS

1-4/0 Gauge
SS 08502
Brass
SS 08505
Epoxy Coated
SS 08506

QUICK DISCONNECT TERMINAL

SS 08578



MARINE TERMINALS

Universal
SS SK7203
Brass
SS 08504
Epoxy
SS 08507



MILITARY BATTERY POST ADAPTER

Universal for tapping auxiliary leads.
BWD BH315U



POST SHIMS

Universal
SS 08584
SOFT LEAD
POST SHIMS
BWD BH52



3/8" STUD TYPE CHARGING POST

SS 01347



GROUP 31 BATTERY NUT POSTS

SS 08577



Terminals & Accessories



1-1/4" TERMINAL BOLT WITH NUT
SS 01336

L PLATED BATTERY NUTS AND BOLTS

5/16" x 5/16"

BWD BH53

1/4" x 1/4"

BWD BH53A

5/16" Battery Nut for BH53

BWD BH53N



3/8" - 16 STUD TYPE BATTERY NUT

Stainless Steel

BWD BH99

Black Plastic

BWD BH100

Red Plastic

BWD BH101



5/16" PLATED FLANGE NUT

BWD BH57



5/16" PLATED COLD FORGED STEEL WINGNUTS

BWD BH19B



TERMINAL BOOT PROTECTORS

Red and black.

SS 01414



QUICK CLAMP™ TERMINALS

SS 08508



UNIVERSAL SIDE POST

SS 7410 Card of 8

SS SK7401



PLATED SIDE POST BOLTS

3/8" x 1/2"

BWD BH54

3/8" x 1"

BWD BH54L



OEM SIDE TERMINAL BOLT

SS 01337



LEAD TERMINAL SPACER

BWD BH54S



CHARGING POST SS 01335



LEAD BATTERY CHARGING POST BWD BH307



3/8" SIDE TERMINAL ACCESSORY BOLT

Replaces standard side terminal bolt.
Has 5/16"-18 x 3/4" stud for accessory wires.

BWD BH311



LONG BRASS BATTERY BOLT EXTENDER SS 01391



GOLD SIDE POST BOLT SS 01411



REPAIR



ADAPTER NUT

Replaces regular 5/16" shoulder nut on top post clamps.
Has 5/16" - 18 x 3/4" stud for accessory wires.

BWD BH312



TERMINAL ADAPTERS

Quick Connection with Locking Twist Cap

Ideal for easy removal.

BWD BH306

3/8" x 1/2" Extra Long Side Terminal Battery Bolt

Auxiliary screw-in end provides
accessory hookup.

BWD BH54A



CABLE SPACER WITH LONG BOLT

SS 08585



SIDE-TO-TOP CONVERTERS

Side Post

BWD BH92 1 Pair

Stud Post

BWD BH93 1 Pair



SIDE TERMINAL ADAPTER

SS 01327 1 Pair

GARDEN TRACTOR BATTERY ADAPTERS

Flag to Post Terminal Adapters

Designed to convert most group U-1
flag terminal batteries to post terminal
applications.

BWD BH94

Carriage Nuts and Bolts

For utility garden tractor battery cables.
Includes two nuts, two bolts 1/2" x 3/4".

BWD BH53B

Terminal Post with Nut for Garden Tractor

SS 01345





RoHS
compliant

Be Lead-Free with TZ

- Eliminates harmful exposure to lead at your home or business
- Environmentally friendly (RoHS compliant)
- Three times more conductive than traditional lead battery terminals



TZ TOP POST TERMINALS

Fits over the positive or negative posts on top terminal batteries.

NOC TZ110C Card of 10



TZ SIDE POST TERMINALS

Fits into positive or negative terminals on side terminal batteries.

NOC TZ510C Card of 8
NOC TZ510CS



TZ TRUCK TERMINALS

A heavy-duty terminal that fits over the positive or negative post on top terminal batteries. For commercial applications.

NOC TZ800C Card of 10
NOC TZ800CS



TZ MARINE WING-NUT TERMINALS

Converts top terminal battery posts to accept tubular copper lugs.

NOC TZ210C Card of 10
NOC TZ210CS
NOC TZ226CS Card of 2



TZ SIDE TERMINAL CHARGING POST

Fits in the positive or negative terminals on side terminal batteries for charging.

NOC TZ710CS Card of 2



TZ FEMALE STUD POST

Converts 3/8" stud posts to accept top terminal battery cables.

NOC TZ750CS Card of 2



TZ SIDE TERMINAL ADAPTER

Converts top terminal battery posts to accept side terminal battery cables.

NOC TZ1160CS Card of 2



TZ 3-WAY TERMINAL

Fits over the positive or negative posts on top terminal batteries.

Allows for multiple cable entry.
NOC TZ115 (Pos)
NOC TZ116 (Neg)



TZ MILITARY ORDINANCE TERMINAL

Fits over the positive or negative posts on top terminal batteries. The extra long bolt allows for additional accessory leads. Complies with military specifications A52425-1 (MS75004-1) and A52425-2 (MS75004-2).

NOC TZ620 (Pos)
NOC TZ625 (Neg)

LEAD FREE BATTERY TERMINALS

- Material: Zinc
- 6-2/0 AWG

Side Post

NOC TZ510CS

Top Post

NOC TZ110CS

Heavy-Duty

- Material: Zinc
- 1-4/0 AWG

NOC TZ800CS





SIDE TERMINAL CONVERSION CLAMPS

Top post to side post converter.

BWD BH305 1 Pair



THREE WAY HEAVY-DUTY REPAIR ENDS

• One positive and one negative

BWD BH309 1 Pair



MARINE TERMINAL REPAIR ENDS

- Quick disconnect for starting circuit
- Converts post battery to stud cables
- Meets Coast Guard regulations
- All fasteners included

Cast Brass NEG Marine 5/16" with Nut

BWD BH19

Cast Brass POS Marine 3/8" with Nut

BWD BH310C

Lead Universal Marine Terminal 5/16" with Nut

BWD BH308

Lead Universal Marine Terminal 5/16" with Brass Nut

BWD BH308C



MILITARY BATTERY POST TERMINALS

- Meets military specifications A52425-1 and A52425-2
- Low profile, only 3/4" high
- Long bolt, 3/8" - 16 x 2", permits multiple connections
- All fasteners are zinc plated for corrosion resistance

Negative

BWD BH315N

Positive

BWD BH315P

SOLID BRASS COMPRESSION BATTERY TERMINALS

Straight / Top Post

Part #	Cable Size	Polarity
BWD BH401	1/0	Univ
BWD BH402	2/0	Univ
BWD BH406	3/0	Univ
BWD BH407	4/0	Univ
BWD BH420	2 ga.	Univ
BWD BH440	4 ga.	Univ

90° Elbow

BWD BH403	2/0	Univ
BWD BH421	2 ga.	Univ

Flag

BWD BH405	2/0	Univ
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Lug Terminal

Part #	Cable Size	Stud Size
BWD BH156	2 ga.	3/8"
BWD BH404	2/0	3/8"
BWD BH441	4 ga.	3/8"
BWD BH475	1/0	3/8"
BWD BH477	4/0	3/8"



Terminals

CRIMPABLE BATTERY TERMINALS - TIN PLATED COPPER

- Clearly marked "cable size" ensures proper terminal selection
- Polarity indicated to avoid battery-damaging cross-connections
- Crimping tool die color and letter code permanently marked to simplify crimping tool use

Straight

Part #	Cable Size	Polarity
BWD BH17	4	Univ
BWD BH55	1 and 2	Pos
BWD BH56	1 and 2	Neg
BWD BH31	1/0	Pos
BWD BH32	1/0	Neg
BWD BH33	2/0	Pos
BWD BH34	2/0	Neg
BWD BH35	3/0	Pos
BWD BH36	3/0	Neg
BWD BH37	4/0	Pos
BWD BH38	4/0	Neg



Flag

Part #	Cable Size	Polarity
BWD BH27A	2/0	Pos
BWD BH28	2/0	Neg
BWD BH29	3/0	Pos
BWD BH30	3/0	Neg



Left Elbow

Part #	Cable Size	Polarity
BWD BH41A	1/0	Neg
BWD BH41B	1/0	Pos
BWD BH41	2/0	Neg
BWD BH42	2/0	Pos
BWD BH45	3/0	Neg
BWD BH46	3/0	Pos



Right Elbow

Part #	Cable Size	Polarity
BWD BH39A	1/0	Neg
BWD BH39B	1/0	Pos
BWD BH39	2/0	Neg
BWD BH40	2/0	Pos
BWD BH43	3/0	Neg
BWD BH44	3/0	Pos



BRASS SOLDERABLE BATTERY CABLE TERMINALS

Straight-Closed Barrel Type

Part #	Cable Size	Polarity
BWD BH12	2/0 and 3/0	Neg
BWD BH12B	2/0	Pos
BWD BH12D	3/0	Neg
BWD BH12E	3/0	Pos
BWD BH13	1/0	Univ
BWD BH13A	4 and 6	Univ
BWD BH13B	1 and 2*	Univ
BWD BH13D	1 and 2**	Univ

*Light Duty **Heavy Duty



"FITZ-ALL" ELBOW

Universal right or left elbow for trucks, tractors, and other 6 volt vehicles.

Universal Elbow

Part #	Cable Size	Polarity
BWD BH10A	0 and 2/0	Univ
BWD BH10B	1 and 2	Univ

Top Mount Terminal - 90°

Part #	Description	Gauge
BWD BH11A	Top post to stud converter negative	-
BWD BH11B	Positive top post to stud converter	-
BWD BH16	Universal split barrel	1 - 2
BWD BH15	Universal split barrel	1 - 2/0
BWD BH15A	Split barrel positive	1/0 - 2/0
BWD BH15B	Split barrel negative	1/0 - 2/0
BWD BH15D	Split barrel positive	3/0 - 4/0
BWD BH15E	Split barrel negative	3/0 - 4/0

Emergency Solderless Terminals

Part #	Description	Gauge
BWD BH304	Epoxy-coated lead terminals	6 - 2/0
BWD BH299	Universal, nickel-plated brass	6 - 1
BWD BH299C	Card of 10 BH299	6 - 1
BWD BH299B	10 Cards of 10 BH299	6 - 1
BWD BH301	Universal, solid lead terminal	1/0 - 3/0
BWD BH301C	Card of 10 BH301	1/0 - 3/0
BWD BH303	Universal, heavy-duty solid lead	2/0 - 3/0
BWD BH303C	Card of 10 BH303	3/0 - 4/0
BWD BH317	Positive lead marine terminal with zinc-plated steel wing nut 3/8" stud	-
BWD BH19A	Wing nut for BH317 - 3/8" thread	-
BWD BH302	Universal side mount	6 - 1/0
BWD BH302C	Card of 10 BH302	6 - 1/0

Heavy-Duty Super-Crimp Terminals Pure Copper, Lead-Plated

Part #	Description	Gauge
BWD BM136	In-Line Stud	2/0
BWD BH102	Positive	2/0
BWD BH103	Negative	2/0
BWD BH104	Positive	3/0
BWD BH105	Negative	3/0
BWD BM131	Stud Type	4
BWD BM132	Side Mount	2
BWD BM133	Side Mount	1/0



LEAD FREE TERMINAL

6 and 4 gauge.

BWD BH298



UNIVERSAL QUICK CONNECT COUPLERS

Top Mount

Single replacement end. Top post battery terminal for 8, 6 and 4 gauge cable. Includes plastic insulator.

BWD BH410T 6 per Card

Same as BH410T, single.

BWD BH410TD 1 per Bag

Side Mount

Side mount battery terminals for 8, 6 and 4 gauge cable. Includes plastic insulator.

BWD BH412S 6 per Card

Same as BH412S, single.

BWD BH412SD 1 per Bag



COMPRESSION ENDS WITH BRASS COUPLERS

Brass coupler for top post battery terminal for 2/0 gauge. Includes telescoping insulator.

BWD BH416 6 per Card

Lugs & Butt Connectors

CRIMPABLE OR SOLDERABLE COPPER LUGS

- Can be crimped or soldered
- Made from seamless copper tube



Standard Wall Copper Lugs

Part #	Cable Size	Stud Hole
BWD BH21	1	5/16"
BWD BH145	1	3/8"
BWD BH147	1	1/2"
BWD BH152W*	1	1/2"
BWD BH144	2	3/8"
BWD BH151	2	1/2"
BWD BH20	4	1/4"
BWD BH143	4	5/16"
BWD BH140	4	3/8"
BWD BH142W*	4	1/2"
BWD BH160	6	1/4"
BWD BH49	6	3/8"
BWD BH161	8	#10
BWD BH148	1/0	1/2"

*Extra Wide Pad

Standard Wall Copper Lugs Cont.

Part #	Cable Size	Stud Hole
BWD BH146	1/0	3/8"
BWD BH22	2/0	5/16"
BWD BH23	2/0	3/8"
BWD BH149	2/0	1/2"
BWD BH153	2/0	5/8"
BWD BH24	3/0	3/8"
BWD BH150	3/0	1/2"
BWD BH25	4/0	3/8"
BWD BH26	4/0	1/2"
BWD BH47	6	5/16"

Thick Wall Heavy-Duty Copper Lugs - Die Cast Copper Alloy

Part #	Cable Size	Stud Hole
BWD BH50H	6	3/8"
BWD BH50G	4	1/2"
BWD BH50J	1/0	3/8"
BWD BH50K	1/0	1/2"
BWD BH50L	2/0	3/8"
BWD BH50M	2/0	1/2"
BWD BH50N	3/0	3/8"
BWD BH50P	3/0	1/2"
BWD BH50R	4/0	3/8"
BWD BH50T	4/0	1/2"

HEAVY-DUTY STARTER LUGS

- Heavier wall thickness and wide pads for greater heat sink
- Longer barrels for more crimping area
- Color-coded to identify correct die

Super Heavy-Duty

Part #	Cable Size	Stud Size	Color
BWD BM105	4	1/4"	Black
BWD BM106	4	5/16"	Black
BWD BM107	1 - 2	5/16"	Black
BWD BM108	4	3/8"	Black
BWD BM109	1	3/8"	Black
BWD BM110	1/0	3/8"	Black
BWD BM113	1/0	1/2"	Black
BWD BM111	2/0	3/8"	Orange
BWD BM114	2/0	1/2"	Orange
BWD BM112	3/0	3/8"	Purple
BWD BM115	3/0	1/2"	Purple



Crimpable Battery Cable Butt Connectors

Part #	Cable Size
BWD BH338	8
BWD BH339	6
BWD BH340	4
BWD BH341	2
BWD BH342	1
BWD BH343	1/0
BWD BH344	2/0
BWD BH345	3/0
BWD BH346	4/0



MagnaLocking Lugs - For Stud Terminal Batteries

Part #	Cable Size	Stud Size
BWD BM100	1/0	Lug End
BWD BM102	2/0	Lug End
BWD BM103	3/0	Lug End
BWD BM116	1/0	Dual Wire
BWD BM117	2/0	Dual Wire
BWD BM118	3/0	Dual Wire



Super Heavy-Duty Butt Splice Connectors

Part #	Cable Size	Color
BWD BM121	1/0	Black
BWD BM122	2/0	Orange
BWD BM123	3/0	Purple
BWD BM124	4/0	Yellow



Bulk Starter Cables & Solder Pellets



VINYL JACKETED HEAVY-DUTY STARTER CABLE

Bulk Black SGR/SAE J1127 Type			
Part #	Cable Size	Length	O.D.
BWD BCW113	3/0	25'	.670
BWD BCW104C	4	50'	.365
BWD BCW110C	1/0	50'	.545
BWD BCW113C	3/0	50'	.670
BWD BCW106X	6	100'	.295
BWD BCW102X	2	100'	.490
BWD BCW101X	1	100'	.495
BWD BCW110X	1/0	100'	.545
BWD BCW100X	2/0	100'	.588

Bulk Red SGR/SAE J1127 Type			
Part #	Cable Size	Length	O.D.
BWD BCW130R	3/0	25'	.365
BWD BCW113R	3/0	25'	.671
BWD BCW110CR	1/0	50'	.551



SOLDER PELLETS

Make the most durable, weatherproof, and conductive battery termination possible! Color-coded solder pellets make battery cable termination easier and more secure than any other method.

Color Coded Solder Pellets		
Part #	Cable Size	Color
BWD CT469	Solder Flux	----
BWD CT470	1 gauge	Pink
BWD CT471	2 gauge	Green
BWD CT472	4 gauge	Gray
BWD CT473	1/0 gauge	Black
BWD CT474	2/0 gauge	Orange
BWD CT475	3/0 gauge	Purple



PVC JACKETED STARTER CABLE

Bulk Black SGT/SAE J1127 Type			
Part #	Cable Size	Length	O.D.
BWD BCW106	6	25'	.350
BWD BCW104	4	25'	.346
BWD BCW104X	4	100'	.346
BWD BCW102	2	25'	.445
BWD BCW101	1	25'	.505
BWD BCW110	1/0	25'	.524
BWD BCW100	2/0	25'	.582
BWD BCW100C	2/0	50'	.582
BWD BCW114	4/0	25'	.740

Bulk Red SGT/SAE J1127 Type			
Part #	Cable Size	Length	O.D.
BWD BCW106R	6	25'	.350
BWD BCW108R	6	100'	.350
BWD BCW104R	4	100'	.346
BWD BCW102R	2	25'	.445
BWD BCW105R	2	100'	.445
BWD BCW101R	1	25'	.505
BWD BCW110R	1/0	25'	.524
BWD BCW200R	2/0	25'	.582
BWD BCW204R	2/0	100'	.582
BWD BCW114R	4/0	25'	.740



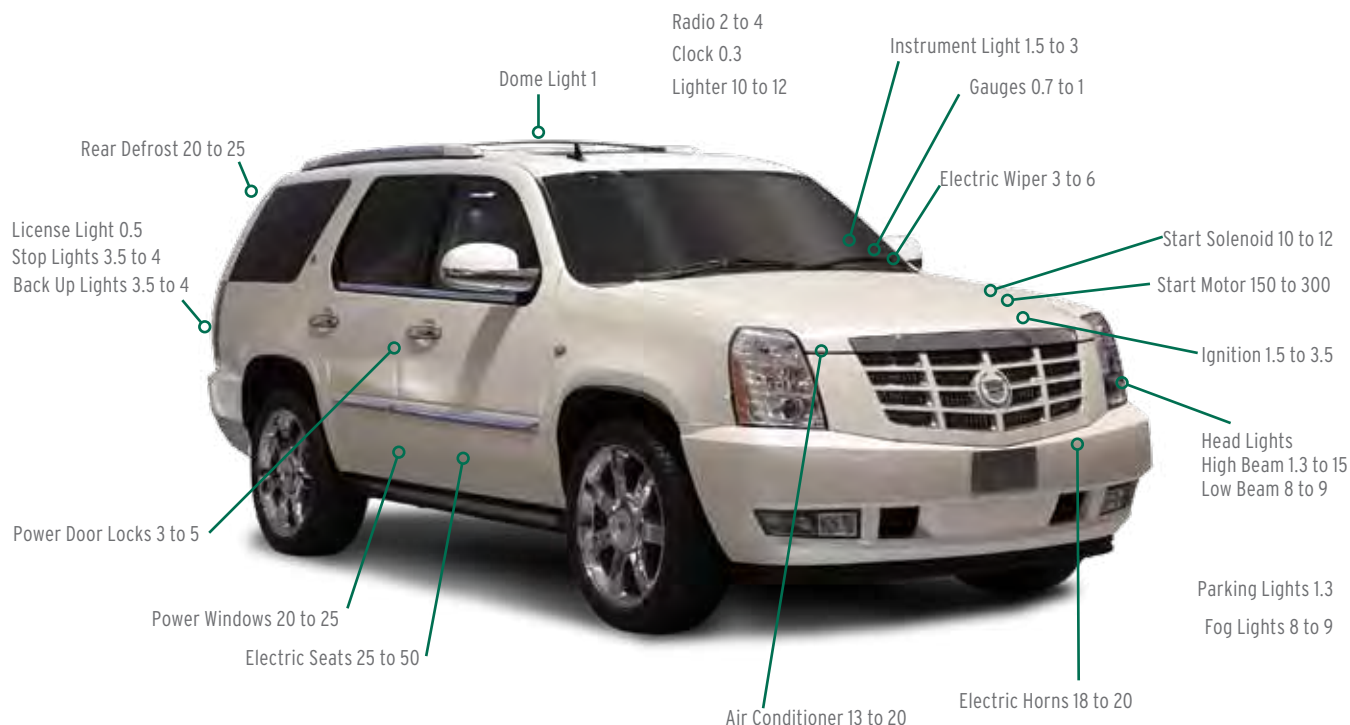
BULK CLEAR BATTERY CABLE

- 2 gauge
- 50' roll

SS A14046

REPAIR

Amperage Guide



PRIMARY WIRE LENGTH AND SIZE

Selecting the correct gauge of primary wire for specific applications is very important. Refer to the following chart to help resolve questions about 12 volt systems.

12 Volt System	Total Length of Wire Using Ground Returns									
Amps. Approx.	10'	20'	30'	40'	50'	60'	70'	80'	90'	100'
1	20	20	20	20	20	20	20	18	18	18
1.5	20	20	20	20	20	20	18	18	18	18
2	20	20	20	20	18	18	18	16	16	16
3	20	20	20	18	18	16	16	16	14	14
4	20	20	18	16	16	16	14	14	14	12
5	20	18	18	16	14	14	14	12	12	12
6	20	18	16	16	14	14	14	12	12	12
7	18	18	16	14	14	12	12	12	10	10
8	18	16	16	14	12	12	12	10	10	10
10	18	16	14	12	12	12	10	10	10	10
11	18	16	14	12	12	10	10	10	10	8
12	18	16	14	12	12	10	10	10	8	8
15	18	14	12	12	10	10	10	8	8	8
18	16	14	12	10	10	8	8	8	8	8
20	16	12	12	10	10	8	8	8	8	6
22	16	12	10	10	8	8	8	8	6	6
24	16	12	10	10	8	8	8	6	6	6
30	14	10	10	8	8	6	6	6	4	4
36	14	10	8	8	6	6	4	4	4	4
50	12	8	8	6	4	4	4	2	2	2
100	8	6	4	4	2	2	1	0	0	2/2
150	6	4	2	2	1	0	2/0	2/0	3/0	3/0
200	6	2	2	1	0	2/0	3/0	4/0	4/0	4/0

Primary Wire

THERMOPLASTIC PRIMARY WIRE

OE manufacturers have been using TWP (thin wall PVC) wire since the early 1990s in order to save weight without sacrificing functionality. Wire gauge is determined by the total cross sectional area of the copper conductor strands (see listings below). Don't be misled by the thickness of the jacket when selecting wire size.

- BWD TWP primary wire is manufactured with the highest stranded copper wire with tough durable vinyl insulation.
- The insulation resists abrasion, grease, oil and battery acid; and won't support combustion.
- Available in a broad range of sizes, types, and colors for any electrical repair, replacement or customizing job.
- SAEJ1128 Requirement - Type TWP Temperature Max 80° C / 176° F



Spools Primary Wire

Part #	Wire Gauge	Strands & Gauge	O.D.	Color	Roll Length	Part #	Wire Gauge	Strands & Gauge	O.D.	Color	Roll Length
BWD PW20B	20	7 x 28	.070	Black	100'	BWD PW14R	14	19 x 27	.103	Red	100'
BWD PW20R	20	7 x 28	.070	Red	100'	BWD PW14W	14	19 x 27	.103	White	100'
BWD PW20W	20	7 x 28	.070	White	100'	BWD PW14Y	14	19 x 27	.103	Yellow	100'
BWD PW18B	18	19 x 31	.078	Black	100'	BWD PW12B	12	19 x 25	.142	Black	100'
BWD PW18BL	18	19 x 31	.078	Blue	100'	BWD PW12BL	12	19 x 25	.142	Blue	100'
BWD PW18BR	18	19 x 31	.078	Brown	100'	BWD PW12BR	12	19 x 25	.142	Brown	100'
BWD PW18G	18	19 x 31	.078	Green	100'	BWD PW12G	12	19 x 25	.142	Green	100'
BWD PW18W	18	19 x 31	.078	White	100'	BWD PW12R	12	19 x 25	.142	Red	100'
BWD PW18Y	18	19 x 31	.078	Yellow	100'	BWD PW12W	12	19 x 25	.142	White	100'
BWD PW16B	16	19 x 29	.089	Black	100'	BWD PW12Y	12	19 x 25	.142	Yellow	100'
BWD PW16BL	16	19 x 29	.089	Blue	100'	BWD PW10B	10	19 X 23	.175	Black	100'
BWD PW16BR	16	19 x 29	.089	Brown	100'	BWD PW10BL	10	19 X 23	.175	Blue	100'
BWD PW16G	16	19 x 29	.089	Green	100'	BWD PW10BR	10	19 X 23	.175	Brown	100'
BWD PW16PK	16	19 x 29	.089	Pink	100'	BWD PW10G	10	19 X 23	.175	Green	100'
BWD PW16PP	16	19 x 29	.089	Purple	100'	BWD PW10R	10	19 X 23	.175	Red	100'
BWD PW16R	16	19 x 29	.089	Red	100'	BWD PW10W	10	19 X 23	.175	White	100'
BWD PW16W	16	19 x 29	.089	White	100'	BWD PW10Y	10	19 X 23	.175	Yellow	100'
BWD PW16Y	16	19 x 29	.089	Yellow	100'	BWD PW8B	8	19 X 21	.226	Black	100'
BWD PW14B	14	19 x 27	.103	Black	100'	BWD PW8R	8	19 X 21	.226	Red	100'
BWD PW14BL	14	19 x 27	.103	Blue	100'	BWD BCW106X	6	-	-	Black	100'
BWD PW14BR	14	19 x 27	.103	Brown	100'	BWD PW6R	6	-	-	Red	100'
BWD PW14BS	14	19 x 27	.103	Black with Red Stripe	100'	BWD PW4R	4	-	-	Red	100'
BWD PW14PP	14	19 x 27	.103	Purple	100'						

REPAIR

BULK WIRE DISPENSER

Designed to help you sell bulk wire from spools by the foot. Height 18", width 14", Depth 12", 3 tiers. Does not include wire.

BWD XM31R



SPEAKER WIRE

- Clear
- 20 wire gauge
- 100' roll

BWD SWA100S



Primary Wire & Loom



FLAT MULTI-CONDUCTOR AUTOMOTIVE CABLE

SAE J1128 Type GPT temperature rating for individual conductors 60° C/140°F.

Parallel Insulated				
Part #	Gauge	Cond	Colors	Roll Length
BWD WW417	16	4	Red, Green, White, Black	100'
BWD WW316	16	3	White, Green, Black	100'
BWD WW314	14	3	White, Green, Black	100'
BWD WW312	12	3	White, Green, Black	100'
BWD WW016	16	2	Black, Red	100'
BWD WW014	14	2	Black, Red	100'
BWD WW012	12	2	Black, Red	100'
BWD WW010	10	2	Black, Red	100'
Parallel Bonded				
BWD WW416	16	4	Brown, Green, Yellow, White	100'
BWD WW414	14	4	Brown, Green, Yellow, White	100'
BWD WW300	16	3	Brown, Green, Yellow, White	100'



HIGH TEMPERATURE NYLON SPLIT LOOM

Protection for wire routed near exhaust manifolds or other hot engine parts. Combine abrasion and superior thermal protection. Marked with white stripe. Temperature rating -20°F to 300° F.

- 1/2" I.D.
- 50' coil

BWD ALS12H

BLACK NEOPRENE LOOM

- 5/16" I.D.
- 50' coil

BWD ALS516N



SPIRAL TUBING

Clear 1/4" x 5'

CTI 85672

Black 3/8" x 10'

CTI 86135



PVC SPLIT LOOM

Protect your wiring. Split seam allows easy insertion and removal without disconnecting wire or cable. Temperature: 15°F to 195°F.

Split Loom			
Part #	Color	Roll Length	I.D.
BWD ALS14	Black	50'	1/4"
BWD ALS38	Black	50'	3/8"
BWD ALS716	Black	50'	7/16"
BWD ALS12	Black	50'	1/2"
BWD ALS58	Black	50'	5/8"
BWD ALS34	Black	50'	3/4"
BWD ALS1	Black	50'	1"
BWD ALS112	Black	50'	1-1/2"
BWD ALS12T	"T" For 3/8" and 1/2" Loom		

ASPHALT-COATED FABRIC LOOM

Seamless, moisture-proof loom for heavy-duty service. For temperature up to 300°F. Meets or exceeds SAE J562A specifications.

Fabric Loom		
Part #	I.D.	Roll Length
BWD ALF25	1/4"	50'
BWD ALF38	3/8"	50'
BWD ALF50	1/2"	50'
BWD ALF58	5/8"	50'
BWD ALF34	3/4"	50'



LOOM INSTALLATION TOOL

Make installing wire loom quick and easy with this handy loom installation tool. Just slip over wire and start loom, tool spreads loom while it feeds over wire. Use with 3/8" thru 5/8" I.D. split loom.

BWD CE40



BLACK SPLIT CONDUIT

Conduit		
Part #	I.D.	Roll Length
CTI 86665	1/2"	10'
CTI 86664	3/8"	5'
CTI 85632	1/2"	4'
CTI 85636	3/4"	3'



Shrink Tubing



HEAVY-DUTY SELF SEALING HEAT SHRINK TUBING

Thick wall tubing provides the best protection against moisture and corrosion. The 3:1 shrink ratio allows fewer part numbers to cover a large range of cable sizes.

Heavy-Duty Self-Sealing Heat Shrink Tubing

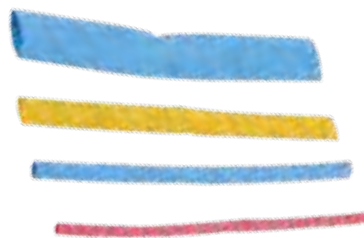
Part #	Color	Cable Size	Length	I.D. Before Shrinking	I.D. After Shrinking
BWD HST10	Black	2/0-4/0	6"	1.10"	.375"
BWD HST11	Red	2/0-4/0	6"	1.10"	.375"



Regular Wall Heat Shrink Tubing

Part #	Cable Size	Length	I.D. Before Shrinking	I.D. After Shrinking
BWD HST8	8-2	6"	.500 (1/2")	.195"
BWD HST9	10-20	1-1/4"	.250 (1/4")	.080"
BWD HST10X	10-12	1-1/8"	.375 (3/8")	.135"
BWD HST12	2-1/0	6"	.750 (3/4")	.313"
BWD HST13	2/0-3/0	1-1/8"	1.00 (1")	.400"
BWD HST14	14-16	1-1/8"	.250 (1/4")	.080"
BWD HST16	2/0-4/0	6"	1.10"	.375"
BWD HST18	18-20	1-1/8"	.125 (1/8")	.024"
BWD HST19	8-1	6"	.750 (3/4")	.250"
BWD HST22	8-4	1-1/8"	.500 (1/2")	.195"

REPAIR



HEAT SHRINK TUBING ASSORTMENTS

Color PVC

CTI 85686 6 Per Pack

6" Black Polyolefin

CTI 85611 6 Per Pack



96" HEAT SHRINK TUBING ROLLS

Red PVC 18-22 Gauge

CTI 85286

Blue PVC 14-16 Gauge

CTI 85287



BLACK HEAT SHRINK TUBING

1/4" x 8'

CTI 85265

3/16" x 8'

CTI 85266

5/16" x 8'

CTI 85267

Wiring Accessories



WIRE CLIPS

Push-on Metal Wiring Clip for Flat Surface

Part #	Qty.	Description
BWD CT622F	50	Bolt-on wiring clip 5/16" mounting hole

Adhesive-Backed Wiring Clip

BWD CT692	10	2" L x 3/8" I.D.
-----------	----	------------------

Rubber Cushioned Steel Clamp

BWD ALR1	10	1/4" I.D.
BWD ALR2	10	3/8" I.D.
BWD ALR3	10	1/2" I.D.
BWD ALR4	10	5/8" I.D.
BWD ALR5	10	3/4" I.D.
BWD ALR6	10	1" I.D.

Push-Mount Wiring Clip

BWD CT621	10	1/4" I.D.
BWD CT622	10	1/2" I.D.

VINYL-COATED STEEL CLAMPS

Securely anchors wiring harnesses to protect against abrasion.

Coated Metal Clamps

Part #	I.D.	Hole Diameter	Width
BWD ALF6	1/4"	13/32"	3/4"
BWD ALF7	3/8"	13/32"	3/4"
BWD ALF8	1/2"	13/32"	3/4"
BWD ALF9	3/4"	13/32"	3/4"
BWD ALF10	1"	13/32"	3/4"



Vinyl Hold Down Clips

Part #	I.D.
BWD CT618N	1/4"
BWD CT619N	1/2"
BWD CT620N	3/4"



VINYL WIRE GROMMETS

Flexible, oil resistant, high dielectric grommets resists harsh engine compartment conditions.

Grommets

Part #	I.D.	Hole	Panel	Std. Pkg.
BWD CT636	1/4"	3/8"	1/16"	25
BWD CT635	3/8"	1/2"	1/16"	25
BWD CT634	1/2"	13/16"	1/16"	25
BWD CT633	5/8"	7/8"	1/16"	25
BWD CT632	3/4"	1-1/16"	1/16"	25
BWD CT631	7/8"	1-1/4"	1/16"	25



NYLON WIRE TIE STRAPS

Standard Non-Releasable - Natural

Part #	Length	Tensile Strength	Width	Bundle Dia.	Qty.
BWD CT625	4"	18 lbs.	.10"	.75"	25
BWD CT804	4"	18 lbs.	.10"	.75"	100
BWD CT585	6"	30 lbs.	.14"	1.25"	25
BWD CT623	8"	50 lbs.	.18"	1.75"	25
BWD CT600	11.75"	50 lbs.	.18"	3.00"	25
BWD CT812	11.75"	50 lbs.	.18"	3.00"	100
BWD CT599	11.75"	50 lbs.	.18"	3.00"	1000
BWD CT624	15.5"	50 lbs.	.18"	4.00"	25
BWD CT624C	15.5"	50 lbs.	.18"	4.00"	100
BWD CT586	15.25"	120 lbs.	.30"	4.00"	10
BWD CT586C	15.25"	120 lbs.	.30"	4.00"	100
BWD CT604	15.25"	120 lbs.	.30"	4.00"	500

Standard Non-Releasable Black UV Resistant

BWD CT581	15.25"	120 lbs.	.30"	4.00"	10
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Mounting Non-Releasable Natural

BWD CT607		50 lbs.	.18"	1.75"	25
BWD CT615		50 lbs.	.18"	4.00"	25
BWD CT602		50 lbs.	.18"	4.00"	500
BWD CT601		120 lbs.	.30"	4.00"	10

Releasable Black UV Resistant

BWD CT592	5.5"	50 lbs.	.34"	1.375"	25
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NYLON WIRE TIE STRAPS

Standard Non-Releasable

Part #	Length	Color	Width	Bundle Dia.	Qty.
CTI 83740	4"	White	.095"	.75"	100
CTI 83741	4"	Black	.095"	.75"	100
CTI 83742	8"	White	.014"	2.061"	100
CTI 83743	8"	Black	.014"	2.061"	100
CTI 83744	11"	White	.014"	3.083"	100
CTI 83745	11"	Black	.014"	3.083"	100
CTI 83746	14"	White	.019"	3.88"	100
CTI 83747	14"	Black	.019"	3.88"	100

500 PIECE NYLON WIRE TIE ASSORTMENTS

Black

Includes 200 4", 200 6" and 100 8".

CTI 83775

Multiple Colors

Includes 300 4" and 200 8".

CTI 83776



INSULATED RING TERMINALS

22-18 Gauge PVC

Part #	Stud Size	Qty. Per Pkg.
BWD CT316	#6	100
BWD CT339	#10	100
BWD CT212	1/4"	100

22-18 Gauge Crimp Type with Heat Shrink

BWD CT360A	#8	10
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22-18 Self Solder Heat Shrink

BWD CT440	#6	25
BWD CT442	#10	25

16-14 PVC

BWD CT304	#6	100
BWD CT305	#8	50
BWD CT306	#10	100
BWD CT307	1/4"	100

BWD CT837	5/16"	500
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BWD CT324	5/16"	100
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BWD CT838	3/8"	100
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BWD CT347	3/8"	25
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12-10 Gauge PVC

BWD CT300	#6	50
BWD CT308	#8	100

BWD CT308A	#10	50
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BWD CT310	1/4"	50
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BWD CT348	5/16"	50
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BWD CT309	3/8"	50
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BWD CT328	1/2"	25
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12-10 Gauge Crimp Type with Heat Shrink

BWD CT366	#10	10
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BWD CT367	1/4"	10
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BWD CT368	3/8"	10
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8 Gauge PVC

BWD CT333	1/4"	25
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BWD CT213	5/16"	25
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BWD CT334	3/8"	25
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BWD CT335	1/2"	25
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INSULATED RING TERMINALS

8 Gauge Crimp Type with Heat Shrink

Part #	Stud Size	Qty. Per Pkg.
BWD CT868	1/4"	10
BWD CT869	3/8"	10

6 Gauge PVC

BWD CT332	1/4"	25
BWD CT214	5/16"	25
BWD CT336	3/8"	25
BWD CT337	1/2"	25

4 Gauge PVC

BWD CT400	1/4"	10
BWD CT401	5/16"	10
BWD CT402	3/8"	10
BWD CT403	1/2"	10



SLIDE-ON TERMINALS

16-14 Gauge PVC

Part #	Width	Qty. Per Pkg.	Male/Female
BWD CT208	1/4"	500	M
BWD CT311	1/4"	50	M
BWD CT209	1/4"	500	F
BWD CT312	1/4"	50	F
BWD CT878	3/16"	50	M
BWD CT879	3/16"	50	F
BWD CT880	7/64"	50	F

16-14 Gauge Nylon Fully Insulated with Heat Shrink

BWD CT372	1/4"	10	M
BWD CT371	1/4"	10	F
BWD CT461	1/4"	25	M
BWD CT460	1/4"	25	F

12-10 Gauge PVC

BWD CT331	1/4"	25	M
BWD CT330	1/4"	25	F
BWD CT349	3/8"	25	F

12-10 Gauge Nylon

BWD CT353	1/4"	50	M
BWD CT352	1/4"	50	F

12-10 Gauge Nylon Heat Shrink

BWD CT374	1/4"	10	M
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12-10 Gauge Fully Insulated Self Solder with Heat Shrink

BWD CT462	1/4"	25	F
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Terminals & Connectors

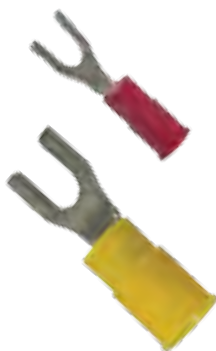
SPADE TERMINALS

22-18 Gauge PVC

Part #	Stud Size	Qty. Per Pkg.
BWD CT341	#6	100
BWD CT388	#6	100
BWD CT388A	#8	100
BWD CT215	#10	100

12-10 Gauge PVC

BWD CT411	#6	50
BWD CT412	#8	50
BWD CT303	#10	50



WIRE PIN TERMINALS

For use where set screws or clamps make contact with wire. Simplifies insertion of standard wire into European style terminal blocks by preventing wire strand foldback. Fits all popular pin-type (European) terminal blocks.

PVC

Part #	Gauge	Qty. Per Pkg.
BWD CT908	22-18	25
BWD CT909	16-14	25



MALE AND FEMALE DISCONNECTS PVC 16-14 GAUGE

BWD CT321 25 Per Package



BULLET CONNECTORS

- 176" Ford applications
- 156" universal

22-18 Gauge PVC

Part #	Male/Female	Size	Qty. Per Pkg.
BWD CT390	M	.156"	25
BWD CT626	F	.156"	25

16-14 Gauge PVC

BWD CT325	M	.156"	100
BWD CT919	M	.156"	25
BWD CT326	F	.156"	100
BWD CT627	F	.156"	25
BWD CT354	M	.176"	100
BWD CT355	F	.176"	100



SPLICE CONNECTORS

PVC

Part #	Gauge	Qty. Per Pkg.
BWD CT392	22-18	25
BWD CT318	16-14	25
BWD CT317	16-14	25

BWD CT222	12-10	25
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3-Way Crimp With Heat Shrink

BWD CT893	16-14	10
BWD CT894	12-10	10



BUTT SPLICE CONNECTORS

PVC

Part #	Gauge	Qty. Per Pkg.
BWD CT342	22-18	100
BWD CT220	16-14	500
BWD CT219	16-14	100
BWD CT313	16-14	50
BWD CT221	12-10	500
BWD CT314	12-10	50
BWD CT415	8	25
BWD CT417	6	10
BWD CT416	4	10

Nylon

BWD CT342N	22-18	100
BWD CT343N	18-14	100

Crimp with Heat Shrink

BWD CT377C	20-18	100
BWD CT377	20-18	10
BWD CT375C	12-10	100
BWD CT896	8	10

Self Solder with Heat Shrink

BWD CT454A	24-22	25
BWD CT455C	20-18	100
BWD CT455	20-18	25
BWD CT456	16-14	25
BWD CT457	12-10	25

Crimp, Solder, Heat Shrink

BWD CT897	24-22	5
BWD CT898	20-18	10
BWD CT899	16-14	10
BWD CT900	12-10	10



QUICK SPLICE CONNECTORS

Parallel Quick Splice		
Part #	Gauge	Qty. Per Pkg.
BWD CT617A	22-18	25
BWD CT614D	18-14	500
BWD CT614	18-14	25
BWD CT617	12-10	25
"T" Tap Female		
BWD CT357	?	25
BWD CT358	12-10	25
Bullet Quick Splice		
BWD CT224	18-14	25



STEP DOWN BUTT CONNECTORS

PVC		
Part #	Gauge	Qty. Per Pkg.
BWD CT904	16-14 to 22-18	10
BWD CT905	12-10 to 16-14	10



TWIST LOCK CONNECTORS

Twist Lock Connectors				
Part #	Gauge	Wire Ranges		Qty. Per Pkg.
		Min.	Max.	
BWD CT936	22-14	3 #22	3 #16	25
BWD CT937	22-14	3 #20	4 #16 w/1 #20	25



FUSE CLIP ADAPTER

Fuse Clip Adapter		
Part #	Description	Qty. Per Pkg.
BWD CT123	1/4" Male Tab, Taps into fuseblock	50



FUSE TAPS

Fuse Taps		
Part #	Description	Qty. Per Pkg.
BWD CT949	GM Type Fuse Tap 1/4" Blade	25
BWD CT950	GM Type Mini Fuse 3/16" Blade	25

REPAIR

SCOTCH SUPER 33 VINYL ELECTRICAL TAPE

- Flame retardant
- Weather resistant
- 3/4" x 52'

MMM 6133



SCOTCH SUPER 88 VINYL PLASTIC ELECTRICAL TAPE

- Suited for cold weather applications
- Premium vinyl
- 3/4" x 66'

MMM 6143



HIGHLAND™ VINYL ELECTRICAL TAPE

- Moisture proof
- Abrasion resistant
- Vinyl Plastic
- 3/4" x 66'

MMM 6138



TARTAN™ TAPE

- Vinyl good quality economical general purpose insulating tape
- 3/4" x 60'

MMM 49656



ELECTRICAL TAPE

5 pc. color coded assortment.

CTI 85295

LIQUID ELECTRICAL TAPE

Black

CTI 85296

Red

CTI 85297





ELECTRICAL WIRE STRIPPER AND CRIMPER

This all-purpose electrical tool includes a pliers-type nose, crimper, wire cutter, stripper and bolt cutter.

KDT 2162



QUICKSTRIPPER TOOL

Strips up to 4/0 cable. Spare blade included.

BWD CE75



CABLE CUTTER

Cuts battery or welding cable to 4/0. Not for steel cable.

BWD CE4D



CABLE CUTTER

Cuts cable up to 6/0. Blades are hardened carbon steel. 24" handles with insulated grips for maximum cutting ease.

BWD CE5D



HEAVY-DUTY CABLE CRIMPER

Double compound crimping action smoothly crimps terminals and lugs from 8 gauge to 6/0. Made especially for heavy-duty jobs. Adjustable crimp dies permanently attached. Die settings have letter, number and color codes.

BWD CE7626



WIRE STRIPPER/CRIMPER

Spring-loaded design strips wire quickly - adjusts automatically for different gauges.

CTI 85596



CRIMPER

Cuts, strips and crimps - all in one tool.

CTI 85595



WIRE CUTTER/STRIPPER

6" spring-loaded wire cutter/stripper.

CTI 86262



ECONOMY WIRE STRIPPER

Great pocket-sized wire stripper for quick and easy jobs. Cuts, strips and crimps 22-10 AWG wire.

CTI 85359



WIRE STRIPPER AND CUTTER

CTI 86260

CABLE CRIMPER

Crimps uninsulated terminals and lugs from 8 gauge to 4/0. Use with hammer or vise, special design prevents over-crimping.

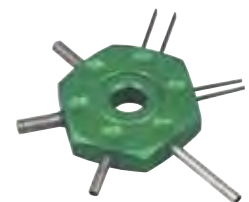
BWD CE78

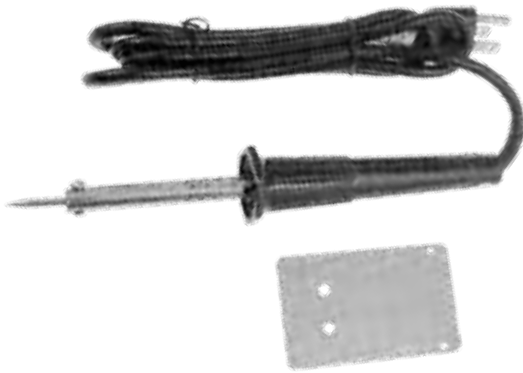


WIRE TERMINAL TOOL

Eliminates damaged wires and terminals. Designed to remove wires from terminals without damage to either. Also can retrieve trouble codes from engine computer on late model GM vehicles.

LIS 56500





SOLDERING IRON

1 U.L. listed. 10 volt/30 watt, 5/32" tip with 5" cord and stand. Great for soldering electrical circuits.

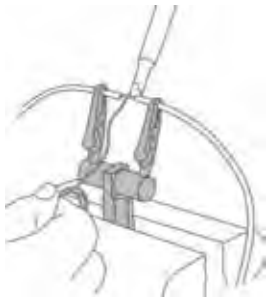
CTI 85362



HEAVY-DUTY SOLDER GUN KIT

- Built-in spotlight
- Instant heat
- Contents: Soldering gun, extra soldering wire, soldering paste and extra tip

PFM W2012



MAGNETIC SOLDERING CLAMP

This clamp offers an extra pair of hands when soldering. Alligator clamps firmly hold wire and small parts when soldering. Flexible design allows different ways to attach and hold wire. Clips and base are magnetic.

LIS 55000



SOFT SILVER SOLDER KIT WITH FLUX

A very high-grade soft solder that contains silver and no lead, zinc or cadmium. Cheaper and easier to apply than silver brazing alloy. Application: brass, copper, nickel, stainless steel, chrome plate (non-toxic)

Specifications

Size: 78" x 1/6" diameter

PSI: 18,000

Melt: 430° F

Kit with flux, 1/16" x 36"

FIR 1423-1119



ROSIN FLUX CORE SOLDER

Used for electrical applications. Completely non-corrosive and electrically non-conductive.

Coated Metal Clamps

Part #	Weight	Ratio
FIR 1423-1114	1/8" x 1 lb.	40/60
FIR 1423-1113	3/32" x 1/2 lb.	30/70
FIR 1423-1110	1/16" x 1/4 lb.	40/60
FIR 1423-1112	3/32" x 1/4 lb.	40/60



PENCIL TORCH KIT

Heat output: 730 watt

- 1850°C - 1950°C heat + solder

Content

- Torch + TX9
- 13mm pencil flame (1/2")
- Anti-flare
- For use with propane fuel only

BRZ 19900





TRIGGER START TORCH KIT

Trigger Start Torch

- Adjustable flame control knob for ease in switching between different applications
- Instant-on trigger igniter for easy lighting

16.92 oz. Fat Boy Propane Fuel Cylinder

- Ideal for general soldering
- Flame temperature in air: 3450° F

BRZ 19910



7 PIECE BRASS TORCH KIT

Includes

- Brass torch
- Flame spreader
- Utility flame tip
- Durable molded plastic storage case
- 16.92 oz. Fat Boy propane fuel cylinder
- Spark igniter
- Additional sparker flints

BRZ 19904



HOSE TORCH

Highest heat value (MAPP) hottest torch.
Heat output: 3726 watt

- Efficient swirl flame provides high heat output
- 4' hose for extended reach
- Adjustable flame for a wide variety of applications
- Solid brass regulators for durability
- Fracture groove
- Belt clip for easy use

BRZ 19199 While Supplies Last

FAT BOY PROPANE FUEL CYLINDER

- Ideal for general soldering
- Flame temperature in air: 3450° F
- 20% more fuel than 14.1 oz. cylinders
- Recyclable
- Low profile

BRZ 19990 16.92 oz.



FAT BOY MAX POWER PROPYLENE FUEL CYLINDER

- Ideal for medium to heavy soldering and brazing
- Flame temperature in air: 3600° F
- 20% more fuel than 14.1 oz. cylinders
- Recyclable
- Low profile

BRZ 19995 16.92 oz.



ECONOMY HEAT GUN

- 1500 watt variable temperature heat gun
- Ideal way to strip paint and varnish, remove decals, shrink wire wraps, loosen fittings, thaw pipes and more
- Three-way switch
- Durable ABS body
- 6' power cord
- Powerful two-speed 1500 watt motor
- Loop pistol grip for easy hanging
- Variable heat settings for a wide variety of jobs
- Superior coil design heats more quickly and maintains even temperature

PFM W50077



HEAVY-DUTY HEAT GUN

- Detachable, three-position non-slip steel base for hands-free operation
- Temperature range between 1000° and 1100° F
- 6 SCFM air delivery
- Cool blower feature with three-position switch
- 1" diameter air flow nozzle
- Heavy-duty die cast housing with aluminum nozzle

PFM W50078



WHILE SUPPLIES LAST

ECONOMY HEAT GUN

115 volt, 10 amp heat gun is capable of reaching temperatures of approximately 250° - 1100° F.

EDY VT1100 While Supplies Last



WHILE SUPPLIES LAST

HEAVY-DUTY HEAT GUN

115 volt, 15 amp industrial quality heat gun is capable of reaching temperatures of approximately 750° - 1000° F.

EDY EP7 While Supplies Last

4 PIECE HEAT GUN KIT

- 120 volt / 60 Hz / 1,500 watt
- Two heat settings: Level 1 - 700° F, Level 2 - 920° F
- Includes four nozzles

APA APT2005



MINI TORCH

Butane powered. Great for heat shrink tubing and waterproof terminals, loosening rusty, frozen nuts and bolts, light soldering/brazing.

CTI 86278



HYBRID VEHICLE SERVICE GLOVES

Designed for maximum comfort and protection.

- Maximum use 1000 volts AC / 1500 volts DC
- Kit includes rubber inner glove, leather outer glove, and protective storage case

SAS 6477 Medium

SAS 6478 Large

SAS 6479 X-Large

SAS 6480 XX-Large

ELECTRIC SERVICE GLOVE CLASS 0

- Meets ASTM D120 standards
- Class 0 Type I
- 12" length rolled cuff
- Lightweight
- Natural rubber
- Protects Up to 1000 volts AC / 1500 volts DC

SAS 6417 Medium

SAS 6418 Large

SAS 6419 Extra-Large



ULTIMA SELECT

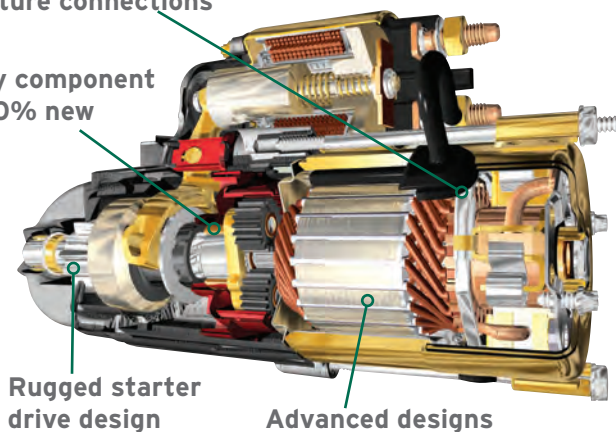
**100%
NEW**

100% New. OE Engineered.



**High-strength
armature connections**

**Every component
is 100% new**

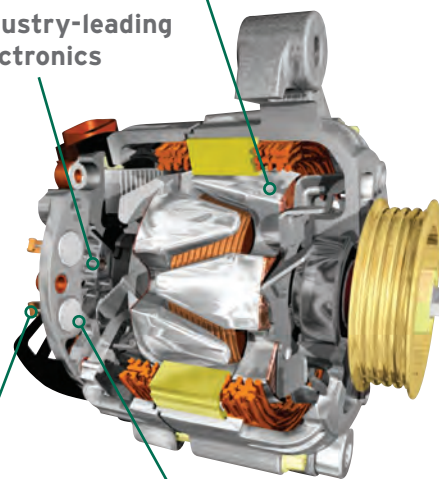


**Rugged starter
drive design**

Advanced designs

**High performance
copper windings**

**Industry-leading
electronics**



**Superior quality
high temp
insulators**

**Rectifiers, stators
and rotors all
electronically tested**

Ultima Select provides industry-leading alternator and starter coverage and long-lasting durability. Manufactured under strict ISO International Quality Standards. Documented assembly procedures, work instructions, quality checks and third party quality audits guarantee that you are installing the highest quality product available.



www.firstcallonline.com

BATTERY QUICK REFERENCE

INS 909