
























Model		Progress 8	Progress 17	Progress 25	Progress 35	Progress 35B
	(1ph)	230V 50/60 Hz				
Power	W	70	280	620	800	1600
	V	6-12	12-24	6-12-24		6-12-24-36-48
Amp. Eff.	A	5	12.5	25	38	
Amp. 60335-2-29	A	3.5	8.5	17	25	
Rated Ref. Cap.	Ah max	35	85	170	250	
Charging Current Pos.	N°	-	2	6	12	
	mm(LxWxH)	200x155x118	200x260x175	245x250x435		
	mm(LxWxH)	205x180x130	230x275x205	280x285x470		
	Kg	2.4	5	12.2	18	23.2
Cod.	N°	99000033	99000045	99000031	99000032	99000040



Model		Artik 22	Discovery 4	Discovery 8	Discovery 16
	(1ph)	230V 50/60 Hz			
Power	W	260	70	140	300
	V	12-24	12		
Amp. Eff.	A	18	4	8	16
Amp. 60335-2-29	A	12		8	16
Rated Ref. Cap.	Ah max	120	40	80	160
Charging Current Pos.	N°	4	2	4	
	mm(LxWxH)	230x215x295	76x140x59	138x236x158	154x276x193
	mm(LxWxH)	275x230x330	123x225x65	170x270x100	175x305x220
	Kg	8.6	0.8	1.3	1.6
Cod.	N°	99000028	99000047	99000048	99000049



Model		Automat 6	Automat 8	Automat 13	EP12/17 - ZOO2W
	(1ph)	230V 50/60 Hz			
Power	W	82		150	<ul style="list-style-type: none"> • 12V/24V DC • 700/400 Amp • 2x17AH Sealed lead-acid • Colour coded voltmeter • Automatic with float/Cut • 1x12V • Automatic circuit overload protection
	V	2	6-12	12	
Amp. Eff.	A	4	4	11	
Amp. 60335-2-29	A	2.5		7	
Rated Ref. Cap.	Ah max	40		120	
Charging Current Pos.	N°	-			
	mm(LxWxH)	110x140x170		132x180x300	
	mm(LxWxH)	112x147x175		127x182x300	
	Kg	2.3		3.4	
Cod.	N°	99000042	99000050	99000043	

Model		Rapid 460	Sprint Car 640
	(1ph)	230V 50/60Hz	
Power	W	950	1400
	V	12-24	
Amp. Eff.	A	30	75
Amp. 60335-2-29	A	22	50
	Acc	430	550
Rated Ref. Cap.	Ah max	260	400
Charging Current Pos.	N°	6+BOOST	
	mm(LxWxH)	245x250x435	320x487x745
	mm(LxWxH)	280x285x470	330x395x710
	Kg	20	30
Cod.	N°	99005020	99010030



Model: BT100-A
Battery Load Tester/Charging System Analyzer
For 6 and 12 Volt Batteries

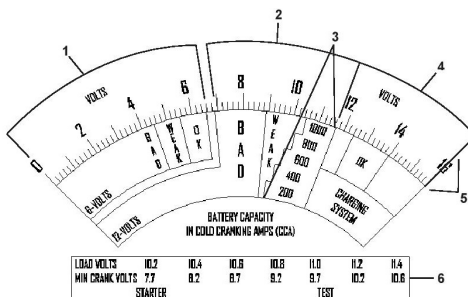


READ THE ENTIRE MANUAL BEFORE USING THIS PRODUCT.
FAILURE TO DO SO COULD RESULT IN SERIOUS INJURY.

TABLE 1

LOAD TEST	BATTERY CONDITION
Good (green)	The battery capacity is OK. The battery may or may not be fully charged. Check the specific gravity of the battery to determine the state of charge, check for an electrical drain or possible charging system trouble. Recharge the battery to a full level.
Weak or bad, but the needle remains steady. (yellow or red)	The battery capacity is not satisfactory. The battery may be either defective or not fully charged. Check the specific gravity to determine which condition exists. If charging does not bring the specific gravity to the full charge level, the battery should be replaced.
Weak or bad, but the needle continues to fall. (yellow or red)	The battery may be defective or very run-down. Release the load switch and note the voltmeter reaction. Voltage recovery to 12 volts or above within a few seconds indicates a defective battery. A slow voltage recovery indicates a run-down condition. For best results, check the specific gravity.

METER



1. Range for 6 volt battery load testing
2. Range for 12 volt battery load testing
3. Cold cranking amps range
4. Charging system test range
5. Voltage scale
6. Starter test voltage table

IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS – This manual will show you how to use your tester safely and effectively. Please read, understand and follow these instructions and precautions carefully, as this manual contains important safety and operating instructions.

WORKING IN THE VICINITY OF A LEAD-ACID BATTERY IS DANGEROUS. BATTERIES GENERATE EXPLOSIVE GASES DURING NORMAL OPERATION. FOR THIS REASON, IT IS IMPORTANT THAT YOU FOLLOW THESE INSTRUCTIONS EACH TIME YOU USE THE TESTER.

- Read the entire manual before using this product. Failure to do so could result in serious injury.
- Use the tester in a well-ventilated area.
- This tester is not intended for use by children.
- Do not expose the tester to rain or snow.
- Do not operate the tester if it has received a sharp blow, been dropped or otherwise damaged in any way; take it to a qualified service person.
- Inspect the battery for a cracked or broken case or cover. If the battery is damaged, do not use the tester.
- Do not disassemble the tester; take it to a qualified service person when service or repair is required. Incorrect reassembly may result in a risk of fire or electric shock.
- Follow these instructions and those published by the battery manufacturer and the manufacturer of any equipment you intend to use in the vicinity of the battery. Review the cautionary markings on these products and on the engine.

PERSONAL SAFETY PRECAUTIONS

- Wear complete eye protection and protective clothing when working near lead-acid batteries. Always have someone nearby for help.
- Have plenty of fresh water, soap and baking soda nearby for use, in case battery acid contacts your eyes, skin or clothing. Wash immediately with soap and water and seek medical attention.
- If battery acid comes into contact with eyes, flush eyes immediately for at least 10 minutes and get medical attention.
- Neutralize any acid spills thoroughly with baking soda before attempting to clean up.
- Remove all personal metal items from your body, such as rings, bracelets, necklaces and watches. A lead-acid battery can produce a short circuit current high enough to weld a ring to metal, causing a severe burn.
- Never smoke or allow a spark or flame in the vicinity of the battery or engine.

OPERATING INSTRUCTIONS

BATTERY TEST

IMPORTANT: During the first use of this tester, you will notice a little smoke and/or a burning smell. This is normal and will stop after a short burn-in period. Also, during regular use, the metal housing of the unit will get hot enough to burn skin or cause property damage; carry by the handle. Neither of these factors will affect the performance of your tester.

1. Turn off the ignition, all accessories and any loads.
2. Clean the battery terminals.
3. Clip the red clamp to the positive (POS, P, +) battery terminal.
4. Clip the black clamp to the negative (NEG, N, -) battery terminal.

6V BATTERY ANALYSIS

1. Read the meter and confirm the battery voltage is in the green "OK" area (see illustration).
2. Press and hold the load switch "on" for a maximum of 10 seconds and read the meter with the load still on. The needle should remain in the green area. If it doesn't, the battery is weak or bad.

CAUTION: To prevent overheating, allow tester to cool for 5 minutes before depressing the load switch again, if further testing is required.

12V BATTERY ANALYSIS

1. Find the Cold Cranking Amps (CCA) range on the meter (see illustration) that matches the CCA rating of the battery being tested.
2. Press and hold the load switch "on" for a maximum of 10 seconds and read the meter with the load still on. Then, refer to Table 1 or the back of the tester.

CAUTION: To prevent overheating, allow tester to cool for 5 minutes before depressing the load switch again, if further testing is required.

TESTING THE CHARGING SYSTEM

1. Connect the tester.
2. Start the engine and run it at 1200 to 1500 rpm. **CAUTION:** Stay clear of moving engine parts.
3. Note the meter reading with all of the electrical accessories off. It should be in the green "OK" band in the "charging system" scale (see illustration).
4. With the headlights and blower motor on high, the meter should remain in the green "OK" band.
5. If the meter reads in the red band or outside the charging system zone, trouble is indicated; most likely a defective alternator.