Battery Testing Options

Option 1

This is a fast and easy test, no tools needed – results are about 20% accurate

Procedure:

1. Position the Amigo against a heavy wall, pull the forward lever – if the battery gauge on the enclosure immediately drops, one or both batteries may need to be replaced. This is a stall test & will indicate if the battery has no depth.

Option 2

This is a fast test using a multi meter -- results are about 25% accurate

Procedure:

- 1. Set voltage meter to 50-volt range and connect red meter lead to positive post on one battery and black meter lead to negative post on the other battery.
- 2. Position the Amigo against a heavy wall, pull the forward lever if the meter immediately drops below 20 volts, one or both batteries may need to be replaced.

Option 3 - Automotive Battery Load Tester

Results are about 25% accurate

A hand-held automotive battery load tester tests the cold cranking amps in a battery. This is the power that a battery can discharge all at once to start the engine in an automobile.

The batteries used in Amigo carts are rated in amps/hour. This type of battery will discharge over a long period of time instead of discharging all the power at once.

Procedure:

- 1. Fully charge battery before testing.
- 2. Attach according to the instructions that came with the load tester. The test button or test switch on the load tester will need to be applied more than once for a period of approximately five seconds each time.
- 3. Refer below for the number of recommended times a load will need to be applied to the battery for a valid test (applying a load means using the test button or test switch on the load tester).

7 amps/hour Load test 1 time
17 amps/hour Load test 2-3 times
26-40 amps/hour Load test 3-4 times

The load tester will now give you the battery condition.

This test is designed for testing automotive batteries, and is less accurate when used to test Amigo batteries.

Procedure:

- Charge battery and let it sit for an hour
- 2. Attach multi-meter wires to appropriate posts on battery
- 3. Compare the voltage reading to the table at right to determine the battery status:

Voltage	Rate of Charge	Status
12.60 +	100%	GOOD
12.50	90% ———	
12.42	80% ———	
12.32	70%	
12.20	60%	
12.06	50%	OKAY
11.90	40%	
11.75	30% —	
11.58	20% —	DAD
11.31	10% -	BAD
10.50	0% -	

Option 5 – Battery Test with RC-300 Tester

Results are about 80% accurate



Amigo company has been using the RC-300 battery tester for the past four years. It identifies most defective/low capacity batteries. Using the RC-300, we have detected approximately 95% of defective batteries that were checked on our assembly line.

The RC-300 tester has been used on returned batteries detecting approximately 95% of defective low capacity batteries. It is not a fool-proof testing device, but we are confident that it is 95% correct.

The battery tester is pre-calibrated before leaving Amigo. A checkpoint label-identifying device that has been pre-calibrated is placed on each tester sent out. A simple procedural manual will also be sent out with

each battery tester.

RC-300 tester advantages:

- Following the testing procedure will eliminate replacing both batteries when only one battery is defective
- The RC-300 does not require batteries to be fully charged, or to wait for surface charge to dissipate
- Battery load is fixed --- there is no need to load wheels with hand pressure
- No risk of working around moving parts
- Compensates for temperature
- Provides "good", "marginal" or "bad" indication with remaining AH capacity

RC-300 battery testers are available for sale from Amigo Mobility International for \$290 (average retail price is \$300 or more). To order yours, contact the Amigo service department at 800.248.9131 or customerservice@myamigo.com and reference part number 11163.

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