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Countries:
Document ID: IK0800482

Availability: ISIS, Bus ISIS, FleetISIS, NotSIR **Revision:** 17

Major System: ELECTRICAL SYSTEM **Created:** 2/19/2014

Current Language: English **Last Modified:** 11/13/2017

Other Languages: [Español](#), **Author:** Andrew Boyd

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Coding Information

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Title: Battery Testing, Diagnostics, and Maintenance information

Applies To: All Vehicles

CHANGE LOG

12/14/2016 - Updated Odyssey selections for testing.
 10/31/2016 - Updated Odyssey warranty process.
 08/02/2016 - Updated battery charge time table
 05/10/2016 - Added Enersys/Odyssey Warranty Information.
 04/04/2016 - Added Enersys/Odyssey Warranty Information.

DESCRIPTION

This document covers battery diagnostics, maintenance, and storage requirements. Failure to follow the instructions can result in a false indication of a failed battery(s).

Note : If battery is being tested under 55(Parts over the counter warranty), when prompted on the battery tester “Is this a Navistar Vehicle”, select ‘YES’

Note : If vehicle is equipped with Odyssey Batteries please file warranty through Navistar.

NOTE: If equipped with Odyssey Batteries, select SPIRAL when prompted for Battery Chemistry.

SYMPTOMS

The vehicle may have one or more of the following symptoms:

- No start
- Hard to start
- Low voltage on gauge
- Repeated jump starts

SPECIAL TOOLS

Tool Description	Tool Number	Comments	Instructions
MidTronics inTellec EXP battery and electrical diagnostic tester	n/a		

DIAGNOSTIC STEPS

Step	Action	Decision
1	Pre-Test Inspection 1. Inspect for loose connections at the battery and connected components (Starter, Alternator, Ground, etc...) 2. Remove any corrosion with battery cleaning spray, or baking soda/water paste. Then rinse clean. Have all connections been found tight, and without corrosion?	Go to Step 2

Step	Action	Decision
2	Battery Pack Breakdown Test 1. Do the "Test Preparation" as described in Section 4 of the Midtronics EXP Instruction Manual. 2. Select "System Test" and follow procedure for testing battery individual battery, as described in Section 5 of the Midtronics EXP Instruction Manual found Here Note : Do not test as a pack. Test batteries individually. Note : <i>MUST Use Midtronics battery stud adaptors and tighten properly on each battery tested. Failure to do so will yield inaccurate results. *Adapter, Female Battery Stud-To-Post: Product number A008</i> Note : Keep all generated MidTronics codes during testing to later be submitted on Warranty Claim (If 01,03,39, or 55 warranty applies) What were the individual test results for each Battery?	Good Battery(s) : Battery Diagnostics complete. Replace/Bad Cell : Go to Step 3 Charge and Retest : Charge batteries to a minimum 75% (12.6V), and reperform Step 2

Step	Action	Decision
3	Battery Replacement 1. Replace only the batteries that the tester has failed. 2. The technician must ensure that the open circuit voltage of the new battery is near the voltage of the remaining batteries in the pack, to avoid arcing and overheating of the terminals as the new battery is being installed.	Yes : Continue to Starter diagnostics located at IK0800407 (For ISB applications go to : IK0800503) No : Release the Vehicle

Note : Replace bad batteries with the same part number as the remaining good batteries
Note : Do not mix battery types. AGM, flooded, or hybrid must be matched with the same..

Note : Do not mix CCA (Cold Cranking Amp) or RC (Reserve Capacity) ratings.

Note : For sleeper applications, do not use flooded batteries. Use only AGM or other Navistar approved parts.

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Is No/Slow cranking concern still present?

WARRANTY INFORMATION

Warranty Claim Coding:

Group:	08550
Nouns:	710, 712

Standard Repair Time(s):

Step	Description	SRT Link	Hours
1-2	Battery Test	A08-2710A	SRT Time
3	Battery Replacement	Model Dependent	SRT Time

Special Requirements

Dealers: For each battery filed under warranty (01,03,39,55 Over the counter, and service part), test result codes generated by the Midtronics tester must be printed out, and attached to the claim, or scanned and added as an attachment. Refer to [CTS-1100](#), and [WPL2800114](#).

If the battery is being placed due to physical damage (IE cracked body or cap, swelling/leaking ECT) , please provide pictures of the damage with the warranty claim.

Fleets: Refer to fleet battery warranty policy.

APPENDIX

MAINTAINING BATTERIES DURING VEHICLE STORAGE

Truck and Bus batteries must be maintained during vehicle storage or battery deterioration, or possible failure can result. Battery life will be shortened if the batteries are not kept properly charged while in storage.

If batteries fail while the vehicle is in storage, or on the lot will not be considered for reimbursement or warranty.

The Dealer is responsible for adequate storage and protection of new vehicles, whether they are on Dealer premises or elsewhere. Correct any conditions creating unnecessary expense and/or preventable customer dissatisfaction. When vehicles are delivered directly to a TEM / body manufacturer, the Dealer should arrange for proper vehicle storage and maintenance. We recommend sending a copy of these procedures to the body manufacturer.

The complete Navistar Vehicle Storage policy is explained in the [Warranty Policy Manual CTS1100](#), and [WPL2800091](#)

Battery/ Battery Pack Charging Chart

Note : This chart is only to be used as a guideline illustrating approximate charge times for certain battery/battery pack conditions.

When a battery or batteries need to be charged the following procedures needs to be followed.

The Midtonics Smart Charger PSC550CC is the recommended equipment for charging batteries.

This type of charger will charge the battery or batteries to insure proper and safe charging without overcharging.

If a smart charger is not available, a regular charger can be used. Follow the table below as a guide on how long it takes to charge each battery.

NOTE: The charge rates are for one battery. For additional batteries take each time and multiply it by the number of batteries in the pack.

Battery Type		State of Charge	Charger Output Rate & Charge Time	
Flooded	AGM		55 AMP	70 AMPS
12.6V	12.8V	100%		
12.4V	12.6V	75%	0.5	0.7
12.2V	12.3V	50%	1.2	1
12.0V	12.0V	25%	1.8	1.4
11.8V	11.8V	0%	2.5	1.8

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