

Service Bulletin

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Category G	Applicable Model/s All Models	Subject MAINTENANCE FREE BATTERY DIGNOSTIC AND CHARGING PROCEDURES	Bulletin No. 003/93 Issued 9/15/93 Revised
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APPLICABLE MODELS/VINS

All Mazda vehicles

DESCRIPTION

Vehicles in dealer inventory require periodic battery inspection and if necessary, supplemental charging.

NOTE: If the vehicle's maintenance free battery is excessively discharged, conventional charging procedures will not return the battery to full power.

This bulletin contains the following:

Inspection Recommendations
Diagnostic Procedures
Charging Information
Warranty Information
Battery Diagnostic Check Sheet

INSPECTION RECOMMENDATIONS

AT WHOLESALE DELIVERY

1. Measure the voltage with a digital voltmeter.
2. If the voltage is 12.4V or more, the battery is in normal condition.
3. If the voltage is less than 12.4V, the battery requires a quick charge prior to load testing. Quick charge by setting the charge rate of the battery charge to the "highest" or "boost" position. Refer to the table on page 3.
4. Load test the battery. Refer to the table on page 2 for minimum voltage specifications.
5. If not within specification, contact your DCSM for authorization prior to replacing the battery. See warranty information on page 3.
6. Do not install the "ROOM" fuse. This will minimize the drainage on the battery from the CPU, instrument panel, etc.

NOTE: Remove "ROOM" fuse on Navajo and B-Series vehicles.

VEHICLES IN DEALER INVENTORY

Measure the battery voltage at least once per month. If the voltage is less than 12.4V, perform a quick charge according to the table on page 3.

RETAIL DELIVERY

1. Measure the battery voltage.
2. If the voltage is 12.4V or more, the battery is in normal condition and the vehicle may be delivered.
3. If the voltage is less than 12.4V perform a quick charge according to the table on page 3 prior to delivery.

NOTE: Reinstall the ROOM fuse just prior to delivery. This will decrease the amount of "key off" voltage that is drained from the battery.

If the battery voltage measured less than 12.4V, driving the vehicle will not sufficiently charge the battery.

IMPORTANT: Service and Parts Managers should read this bulletin carefully, sign and convey all information to those concerned.

Signature _____

Service Manager

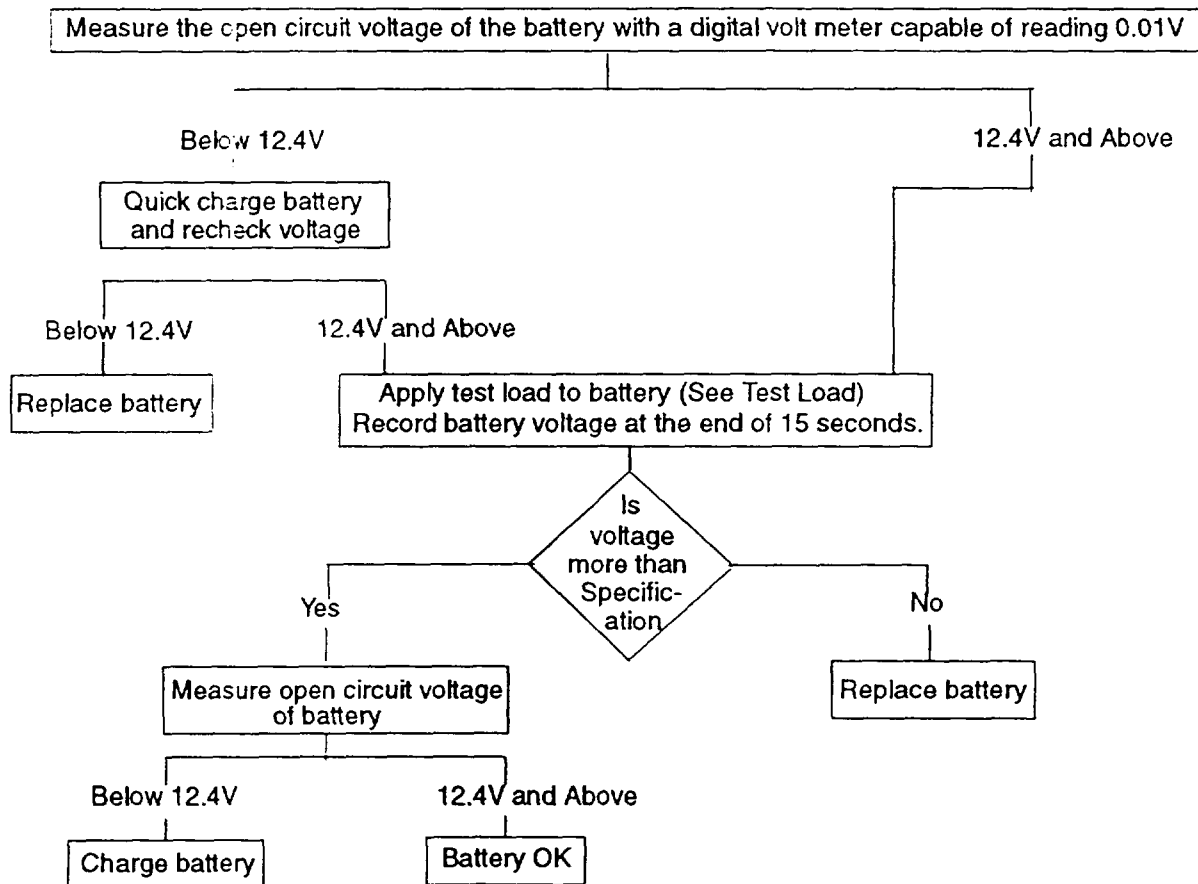
Signature _____

Parts Manager

DIAGNOSTIC PROCEDURES

Because of their design, maintenance free batteries must not be diagnosed using procedures developed for lead storage batteries. This will provide a false reading and result in unnecessary replacement.

The table below should be followed when diagnosing maintenance free batteries.



NOTE: Quick charge the battery by setting the charge rate at the "highest" or "boost" position.

LOAD TEST SPECIFICATION

Approx. Battery Temp.	Min. Volts
21C (70F)	9.6
15C (60F)	9.5
10C (50F)	9.4
4C (40F)	9.3
-1C (30F)	9.1
-7C (20F)	8.9
-12C (10F)	8.7
-18C (0F)	8.5

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CHARGING INFORMATION

The chart below gives specific charging amps, charging times and test load amps for 1993 model year vehicles and their original batteries. Refer to the applicable workshop manual for other model years.

Model	Battery	Max. Charge Current (AMPs.)	Charge Time (Min.)	Test Load (AMPs.)
323/Prot.	55D23L	30	30	180
626/MX-6	GROUP58R	30	30	174
929	55D23L	30	30	180
	80D26L	35	30	195
MX-3	50D20L	25	30	150
	55D23L	30	30	180
	65D23L	30	30	165
MX-5	S46A24L	20	30	105
RX-7	55D23L	30	30	180
	65D23L	30	30	165
	75D26L	35	30	195
MPV	50D20L	25	30	150
	80D26L	35	30	195
B-Series	50D20R	25	30	150
	75D26R	35	30	195
	80D26R	35	30	195
'94 B-Series	BX-58C	35	20	270
	BXT-65-650	35	20	325
Navajo	BXT-65-650	35	20	325

WARRANTY INFORMATION

The information below outlines when charging or replacement is covered under warranty.

1. WHOLESALE DELIVERY INSPECTION

Charging - Testing is not covered under warranty and is considered part of normal dealer processing responsibility. Boost charging is covered. This will require completion of the inspection sheet.

Replacement - Requires DCSM authorization. Additionally, the diagnostic check sheet must be completed and attached to the repair order. If the inspection sheet is not attached, the claim may be denied.

2. VEHICLES IN DEALER INVENTORY

Battery problems that occur after the wholesale delivery inspection are not subject to warranty. Maintenance of vehicles in dealer inventory is the responsibility of the dealer.

If the battery problem results from defects in material/manufacturing, replacement is covered with the authorization of the DCSM. Check the battery according to the diagnostics described in this bulletin and complete the battery diagnostic check sheet. Attach the diagnostic check sheet to the repair order.

3. AFTER RETAIL

Charging - Not covered under normal warranty unless accompanied by a related repair.

Replacement - The battery is covered under normal warranty if it is judged defective after diagnosing and charging according to the procedures listed in this bulletin. A battery diagnostic check sheet must be completed and attached to the repair order.

BATTERY CHECK SHEET FOR INVENTORY VEHICLES

1. Was the customer's complaint verified? ____ Yes ____ No

2. Battery Inspection Results

	Reading
Instrument Used	
Battery Voltage (Open Terminal)	
Battery Voltage (Load Test)	

3. Authorization number if battery was replaced prior to retail sale of the vehicle: _____

NOTE: This check sheet must be attached to the reverse side of the repair order.

Copy this check sheet at the dealer and keep in file for future use.