

URGENT

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

Authorized Modification of Battery Installation

Aviation Ground Power Unit (AGPU)

Part Number 83-360A, NSN 1730-01-144-1897

Part Number 83-360D, NSN 1730-01-466-9371

Headquarters, Department of the Army, Washington D. C.
2 December 2003

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NOTE

THIS PUBLICATION IS EFFECTIVE UNTIL RESCINDED OR SUPERSEDED.

1. **PURPOSE.** The purpose of this TB is to allow aviation units to replace the troublesome 24-volt aircraft battery used on the AGPU with two 12-volt, maintenance free lead-acid batteries.
2. **PRIORITY CLASSIFICATION.** URGENT.
3. **SUMMARY OF PROBLEM.**
 - a. Keeping the battery on the AGPU charged has always been a major problem area. This is true whether the lead-acid or NiCad battery is used.
 - b. These batteries are expensive and require maintenance.
4. **INSPECTION PROCEDURES.**
 - a. The electrical system should be checked for any electrical leak that would drain the battery and necessary fixes applied before replacing the battery.
 - b. The battery compartment should be checked for corrosion and repaired as necessary.

***This manual supersedes TB 1-1730-229-30-2, dated 16 July 2003, including all changes.**

APPLICATION.

The two batteries are installed one in back of the other between the existing battery retainers. The batteries are secured in place with self-tapping screws through the bottom flange at the front of the battery and into the bottom of the battery compartment.

6. CORRECTION PROCEDURES.

- a. Requisition two batteries, NSN 6140-01-457-4339.
- b. Perform the following tasks:
 - (1) Disconnect and remove the 24-volt aircraft battery and associated tie-down hardware and vents.
 - (2) Inspect installation area. Remove all signs of corrosion or rust. Touchup paint if required.
 - (3) Disassemble the battery disconnect and separate the 4 cables at the lugs.
 - (4) Install the first battery in the back of the battery compartment and tie down using a locally fabricated clamp or self-tapping screws through the forward base plate on the battery.
 - (5) Install the second battery in the front of the battery compartment and tie down using a locally fabricated clamp or self-tapping screws through the forward base plate on the battery.
 - (6) Connect the lugs on the two positive cables to a dual conductor battery terminal clamp. Repeat with the lugs on two negative (ground) cables.
 - (7) Connect the positive and negative terminal clamps and the 8 to 12-inch long battery jumper cable to the two batteries as shown on Figure 1.

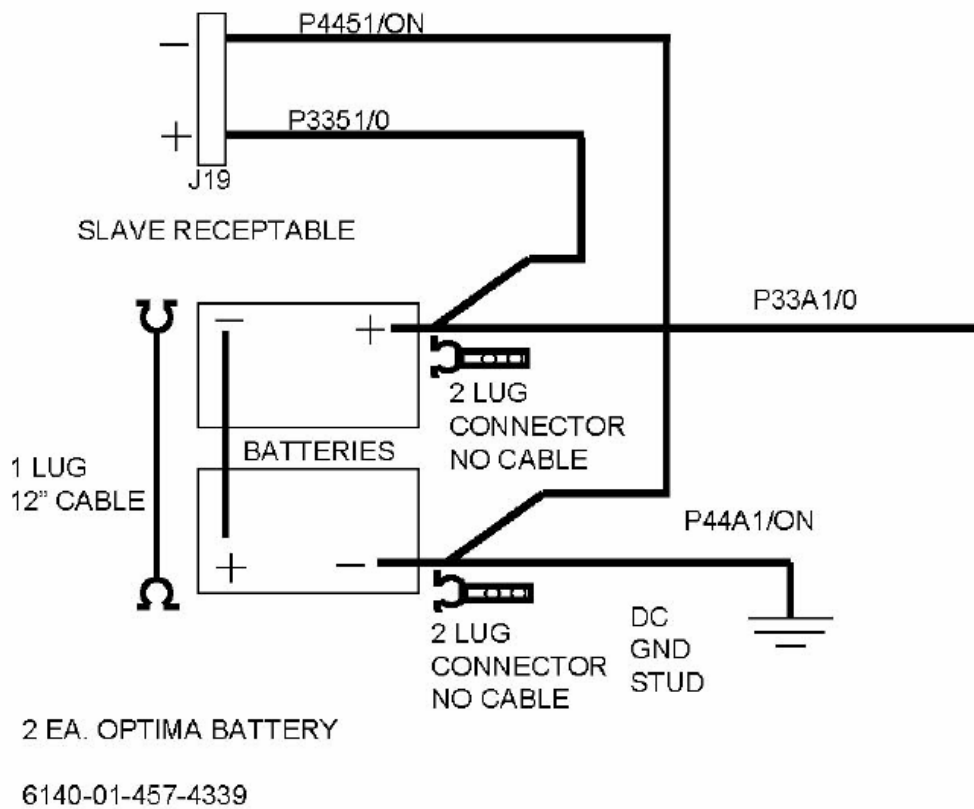


Figure 1. Optima Battery Installation

7. SUPPLY/PARTS AND DISPOSITION.

a. The parts/assemblies/material are to be requisitioned or locally procured:

NOMENCLATURE	NATIONAL STOCK NUMBER	PART NUMBER	CAGE	QTY RQD
Battery, 12-v.maintenance Free	6140-01-457-4339 (for local purchase)	CVC/BCI24 800U series	13873 0UJ55	2
8-12" long battery jumper cable (#1gauge) with terminal clamps at each end	N/A	N/A	N/A	1
battery dual terminal lugs	N/A	N/A	N/A	2

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b. Parts Disposition. Disposition of replaced components and those items in excess of requirements for completion of the corrective procedures shall be in accordance with disposition instructions listed below.

NOMENCLATURE	NATIONAL STOCK NUMBER	PART NUMBER	CAGE	DISPOSITION
Battery, Aircraft, Storage	6140-01-249-7288	CB24-382E	63017	Turn in
Disconnect, Battery	5935-00-686-0447	MS25182-2	96906	Retain for use in future MWO
Adapter, Vent	5970-01-212-9556	3621	84375	Dispose of
Hose, Bottom Outlet	4720-01-226-7677	83-14671-01	63631	Dispose of
Hose, Bottom Outlet	4720-01-230-7078	83-14671-02	63631	Dispose of
Rod, Tie-down, Battery		83-14619	63631	Dispose of
Nut, Wing	5310-01-007-7077	MS35425-39	96906	Dispose of
Washer, Lock	5310-00-582-5965	MS35338-44	96906	Dispose of
Washer, Flat	5310-00-880-5977	MS15795-811	96906	Dispose of
Nut, Jam	5310-00-851-2674	MS35691-1	96906	Dispose of

8. TECHNICAL PUBLICATIONS AFFECTED/CHANGED.Publication NumberDate

TM 55-1730-229-12

1 December 1986

TM 55-1730-229-24P

11 September 1988

TM 55-1730-229-34

1 December 1986

9. POINTS OF CONTACT.

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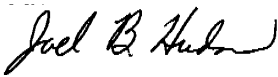
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