

SERVICE INFORMATION NO. SI40-003

I. TECHNICAL DETAILS

1.1 Airplanes affected:

DA 40: all airplanes equipped with a the Vision Microsystem VM1000
(detailed serial numbers see Vision Microsoft Product Service Bulletin
PSB 01032614)

1.2 Subject:

Vision Microsystem VM 1000

ATA-Code: None

1.3 Reason:

Corrections have to be made on the installed equipment.

For detailed information see the attached **Vision Microsystems Product Service Bulletin PSB 01032614**.

1.4 Information:

For detailed information about the affected equipment and a description of the necessary action see **PSB 01032614**.

II. OTHERS

Vision Microsystems Product Service Bulletin PSB 01032614 is attached to this Service Information.

Vision Microsystems Product Service Bulletin

PSB Number: 01 03 26 14
yr. mo. day hr.

Effective Date: March 26, 2001

Purpose: This bulletin is to inform you of a condition with your product that requires correction.

Compliance: MANDATORY. Comply before next flight.

Applicability: The part and serial numbers affected are listed in Table 1 below.

Action: Please inspect your equipment immediately (before next flight) to determine if this service bulletin is applicable. If you have any questions as to applicability, please call us at 360-714-8203 mon-thurs 9am to 5 pm pacific. If your equipment is in this list, then you have two options to have it corrected:

OPTION 1: Return the equipment to the address shown below and we will make the necessary corrections, at no charge, and ship it back to you as soon as possible. We will cover freight charges within the USA for UPS Ground. Contact us for details.

ATTN: PSB01032614
Vision Microsystems Inc.
4071 Hannegan Road, Suite T
Bellingham, WA 98226

OPTION 2: Take the equipment to a certified FAA avionics repair facility and have them remove the components shown in 'APPENDIX A'. This would be at your own expense. If you elect this option, be sure to have the repair facility FAX this document to us with the serial number(s) circled on which they effected the corrections.

TABLE 1

Description	Part Number	Serial Number (range)
DPU,14V,TSO-C113 REV _ -or- DPU,14V,TSO-C113 REV _	4010080	66407-66413, 66415, 66416, 66677, 66898-66902, 66904-66906, 66908-66910, 66918, 67650, 67751, 67660-67664, 67980, 67981
DPU,28V,TSO-C113 REV _ -or- DPU,28V,TSO-C113 REV _	4010081	66417, 66911, 66912, 67652, 67653, 67665-67669, 67983

APPENDIX A: Corrective action procedures.

WARNING: When handling the equipment, insure you are grounded to prevent static electricity discharge.

- STEP 1. Remove the DPU from the aircraft and place on a clean static protected workbench.
- STEP 2. Remove the top cover that has the printing on it.
- STEP 3. Remove the six screws that hold the PC board (3020017) in place and pull it straight up, disengaging it from the rest of the unit (there is a strip connector 'J3' that will disengage from gold pins).
- STEP 4. Turn the board over and locate capacitors 'C2' and 'C4' as shown in the photos below.
- STEP 5. Using miniature diagonal 'side cutters', clip the leads at each end of the capacitor and discard the parts. The remaining lead fragments attached to the PC board should be carefully clipped off near the board surface or removed by simply bending the lead back and forth until they break away at the board surface. **INSURE THAT YOU REMOVE ALL FRAGMENTS**, but do not use compressed air due to contaminants and static electricity.
- STEP 6. Replace the PC board using extreme care to insure the gold pins engage properly with the 'J3' strip connector. Inspect the pins for proper insertion by looking at both sides of the 'J3' strip connector. There should be no pins on the sides of the strip connector after the PC board has been screwed down.
- STEP 7. Replace the top cover. Mark the DPU Identification Tag MOD 1 checkbox position with an 'X'.
- STEP 8. Reinstall the DPU into the aircraft and power up the system. Inspect for proper power-up indications. Start the aircraft engine and insure that all indications are normal.

