

## VECTORCARD<sup>SM</sup>

### A Smart, All-in-One Maintainer Solution

VectorCard<sup>SM</sup> is a Commercial Aviation Best Practice and Hexagon US Federal’s solution to provide maintenance personnel with work cards that are clear, concise, and all-inclusive. For over a decade, the U.S. Air Force has relied on Hexagon solutions for aircraft maintenance and sustainability, resulting in improved safety and reliability, quicker maintenance cycles, and significant cost savings.

The solution integrates maintenance documents into a comprehensive, mechanic-focused digital task set. All relevant data needed to perform each maintenance task is clearly and concisely displayed in a standardized way to ensure the right maintenance is performed every time.

### Better, Reliable Data Sets

Extensive technical data is necessary to create maintenance data sets. Typically, maintainers must research specific technical order requirements needed to perform the maintenance. They are also responsible for tracking necessary support equipment and parts to initiate and complete the task. The lack of detail and clarity in existing work card steps subjects the mechanic to interpret the instructions. Inefficiencies and errors thrive on a shop floor environment when these challenges arise.

Hexagon’s VectorCard solution transforms non-standard and outdated maintenance work cards by delivering a mechanic-centric digital data set combining:

- Logical and concise maintenance work instruction
- Enhanced intuitive graphics
- Parts and tooling requirements
- Safety-related cautions/warnings
- Task progression sign off

**“To do the APU servicing, I used to have to pull up four separate references. Now I just use the VectorCards with pictures, work steps, and all the parts I need. What a relief; I hope we never go back to the old [task orders].”**

—Testimonial from a C-5 Maintainer

**REPLACE NOSE LANDING GEAR DOOR ACTUATION RELIEF VALVES (PRIORITY VALVE) - MAJ ISO**

A/JC Card 0585-5068 Crew PNEU

**USAF C-5 Job Instruction Card Page 1 of 6**


Job #


Work Steps identified as ASIP - FSMP Zone and Sub-Zone(s) are part of the Aircraft Structural Integrity Program (ASIP) to assist the inspection dock chief in identifying ASIP requirements in accordance with AFI 21-101.

- Perform a DVI of the Vertical Stabilizer Attach Fitting "Batman Fitting" at FS 2538. Inspect for cracks, corrosion, loose and missing fasteners. Pay particular attention to Fasteners in Lower Forward and Aft Corners, Inboard and Outboard sides. Reference Fig 1, 2 and 3.
  - Task: 9987, WUC: 11SJ0
  - ASIP - FSMP Zone A7D, Sub-Zone A7D-1

SMCO

Date:





View Looking Aft and Up at the Vertical Stabilizer Attach Fitting at FS 2538

Fig 1. Batman Fitting at FS 2538

EXAMPLE OF A VECTORCARD

Part numbers are listed for all “required” and many “as needed” parts. Special equipment and tool descriptions are also provided, drastically streamlining the maintenance repair process. This solution delivers a logical sequence of work steps with intuitive graphics, cautions, and warnings. Each and every VectorCard provides all practical information the mechanic needs to perform the correct maintenance every time.

## Compliance

Hexagon’s VectorCard solution is fully Specification1000D (S1000D) compliant. S1000D is the international specification for the procurement and production of technical publications and allows reuse of data to eliminate duplication, increase efficiency, and ensure accuracy. Further, the VectorCard solution offers a fully digital solution that supports SGML, XML, PDF, and multiple graphic formats.

VectorCard seamlessly integrates with Hexagon’s other FleetVector<sup>SM</sup> and FleetInsight<sup>SM</sup> products.

## VectorCard<sup>SM</sup> Benefits

- Clearly define the level and intensity of required inspections
- Provides all practical information required to perform the task (man hours, parts, tools, technical reference, etc.)
- Delivers a logical sequence of work steps with intuitive graphics, cautions & warnings
- Reduces the possibility of maintenance errors
- Dramatically increases mechanic touch-time
- Streamlines the maintenance process and cuts flow time
- Consistent work card format (standard work)
- Improves on-the-job safety
- Reduces the learning curve, i.e., provides maintenance digital data that all levels of mechanics can clearly understand

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