

Section - III
SYSTEMS DESCRIPTION

Sub-section 18
PITOT-STATIC SYSTEM

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GENERAL

The pitot-static system supplies the source pressure for the No. 1 and No. 2 Air Data Computers, an Electronic Standby Instrument System Air Data Unit, the Stall Warning and Identification System, and the Airplane Cabin Differential Pressure Indicator.

Provisions are made available for the connection of additional equipment.

The pitot-static system pressure lines and components are shown in a block diagram on Figure 1.

PITOT HEADS

Two pitot heads are mounted, one on each side of the fuselage nose and provide independent supplies of pitot pressure to the following:

Left Pitot Head (P1)

- Air Data Computer No. 1

Right Pitot Head (P2)

- Air Data Computer No. 2
- Standby Airspeed Indicator
- Stall Detectors
- Additional equipment connections.

STATIC VENT PLATES

A static vent plate is mounted on each side of the forward fuselage. Each static plate provides two static ports (static ports 5 & 6, reference Figure 1). These sources provide static pressure to the following:

Static 5 (S5)

- Air Data Computer No. 1

Static 6 (S6)

- Air Data Computer No. 2
- Stall Detectors

STATIC VENTS

Static vents are provided on each side of the aft fuselage (static vents 8 & 9, reference Figure 1). These static vents are respectively connected and provide static pressure to the following:

Static 8 (S8)

- Electronic Standby Instrument System (ESIS) Air Data Unit

Static 9 (S9)

- Cabin Differential Pressure Indicator
- Additional Equipment Connections

EQUIPMENT ISOLATION

A PITOT ISOLATION valve, located on the copilot's side console, provides isolation of the stall detectors and any additional equipment from the Air Data Computer No. 2 and the ESIS Air Data Unit.

With the valve in the NORMAL position, P2 pitot pressure is supplied from the right pitot head to all relevant instruments and equipment.

Operating the valve from NORMAL to ISOLATE maintains P2 pitot pressure to the Air Data Computer No. 2 and the ESIS Air Data Unit but isolates the stall detectors and any additional equipment (reference Figure 1).

STALL VENTS

A stall vent is mounted under each wing and interconnected by pressure lines to the two stall detectors (reference Figure 1).

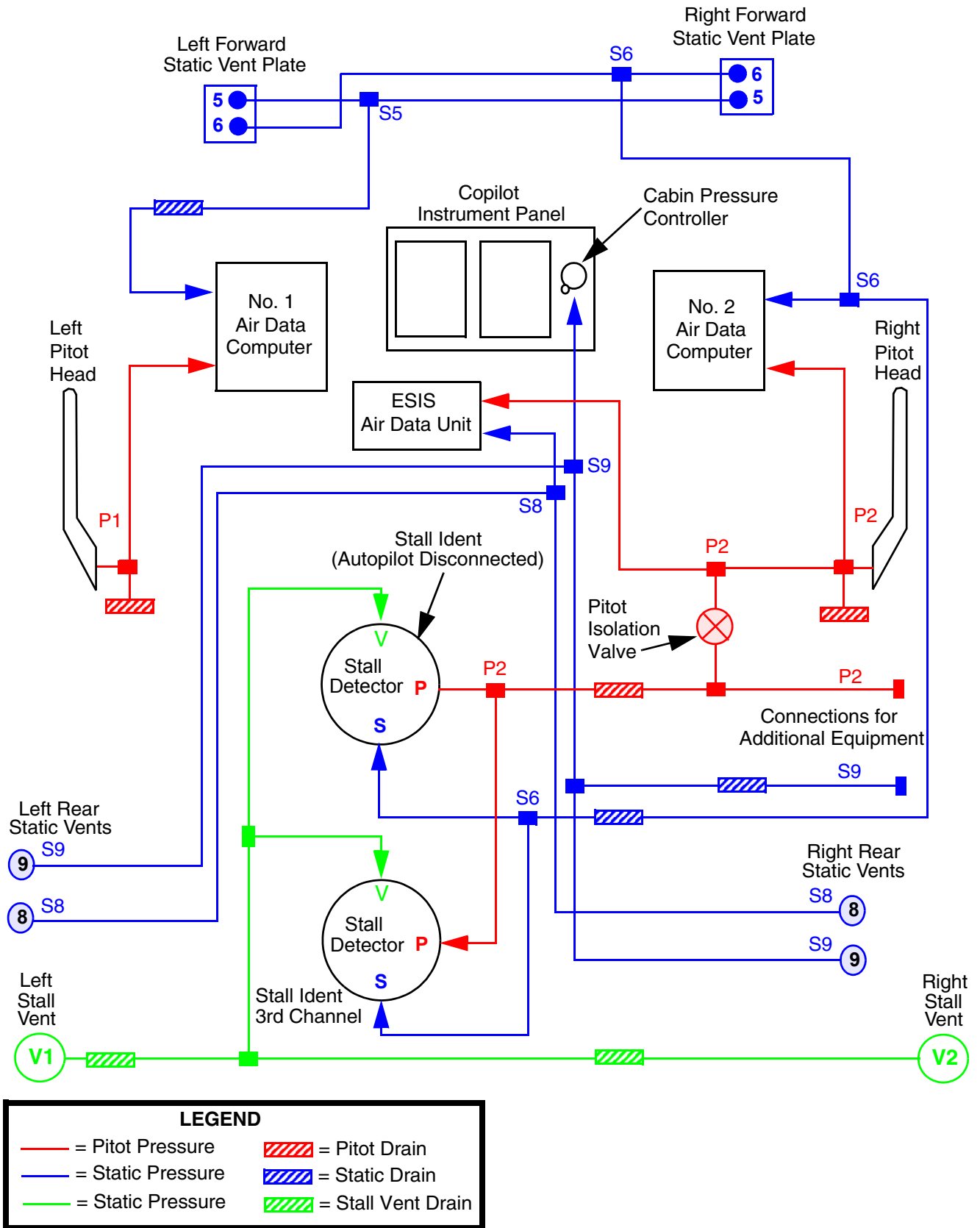


Figure 1
Pitot Static System Block Diagram

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