



HYDRAULIC PUMP AND
ACCESSORIES TEST STAND
MODEL AV843
NSN 4920-01-074-7836

AVIATION TECHNOLOGY
INC.

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HYDRAULIC PUMP AND ACCESSORIES TEST STAND MODEL AV843 NSN 4920-01-074-7836

PURPOSE

The Avitech AV843 Hydraulic Pump and Accessories Test Stand is designed to accurately perform overhaul and post-overhaul acceptance tests on hydraulic and pneumatic components such as valves, actuating cylinders, solenoid valves, reservoirs, accumulators, pumps, and other components.

Capabilities of the AV843 Test Stand include producing and maintaining drive speeds, flow rates, temperatures, and pressures, as required when testing components.

The Test Stand consists of a drive console and a control console. The drive console encloses a reversible, variable-speed drive, an electric motor, and facilities for mounting and driving hydraulic pumps. The control console contains the instrumentation, electrical control circuits, storage compartment and writing surface.

The Test Stand utilizes a low-pressure boost pump, high-pressure hydraulic pump and an air-operated hydraulic booster.

All required instrumentation to perform tests on the necessary components has been provided with accuracies meeting or exceeding specifications in the applicable Technical Orders.

APPLICABILITY

AIRCRAFT:

Many different military aircraft systems including the F-4, F-5, F-15, F-18, F-16, F-111, B1B, B52, C130, KC135, and others.

COMPONENTS TESTED

Hydraulic valves, linear and rotary actuating cylinders, solenoid valves, relief valves, selector valves, shuttle valves, pressure switches, pistons, reservoirs, accumulators, pumps, and other associated components.



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DESIGN PARAMETERS

1. One man operation
2. Stainless Steel Reservoir
3. MIL-H-5606 or MIL-H-6083
4. Drive Motor:
60 hp reversible, variable-speed drive system, 0 to 5000 RPM.
5. Pump Motors:
High Pressure: 60hp, 1775 rpm, 460v, 60Hz, 3-phase AC
Boost Pump: 5hp, 1740 rpm, 460v, 60Hz, 3-phase AC.
6. Pump Capabilities:
High Pressure: 30 GPM at 3750 psi, reduce flow to 5000 psi
Low Pressure: 40 GPM at 150 psi
7. Static Pressure Test: 0 to 25,000psi
8. Fluid Operating Temperature:
100°F to 160°F
9. Supply and Return Filtration:
High Pressure: 3 micron
Boost Low Pressure: 10 micron
Reservoir Return: 10 micron
Uses replaceable elements.
10. UUT Mounting Adapters

OVERALL DIMENSIONS

132" wide by 78" high by 72" deep

WEIGHT

4500 pounds

SERVICES REQUIRED

Electrical Power Input:
460 volts, 3-phase, 60 Hz AC,
160kW, 200 amps
Note: Other Electrical Voltages are Available - Please Specify
Water: 15 to 20 gpm, 80° F
Shop Air: 80 psi
Nitrogen: 2630 cu in. nitrogen cylinder, rechargeable, supplied with test stand.

OPTIONS

See Separate Option details.

MANUALS

Three sets of Operation and Maintenance Manuals are shipped with each Stand. Included are schematics, installation wiring diagrams, bill of material, vendors' literature, spare parts list, and operation and maintenance instructions.

WARRANTY

AVIATION TECHNOLOGY, INC. guarantees Equipment against defects in design, material, or workmanship for a period of 18 months after shipment or one year after start-up.



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