HYDRAULIC PUMP AND ACCESSORIES TEST STAND
MODEL AV843
NSN 4920-01-074-7836
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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:
   100ºF to 160ºF
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, 80º 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.