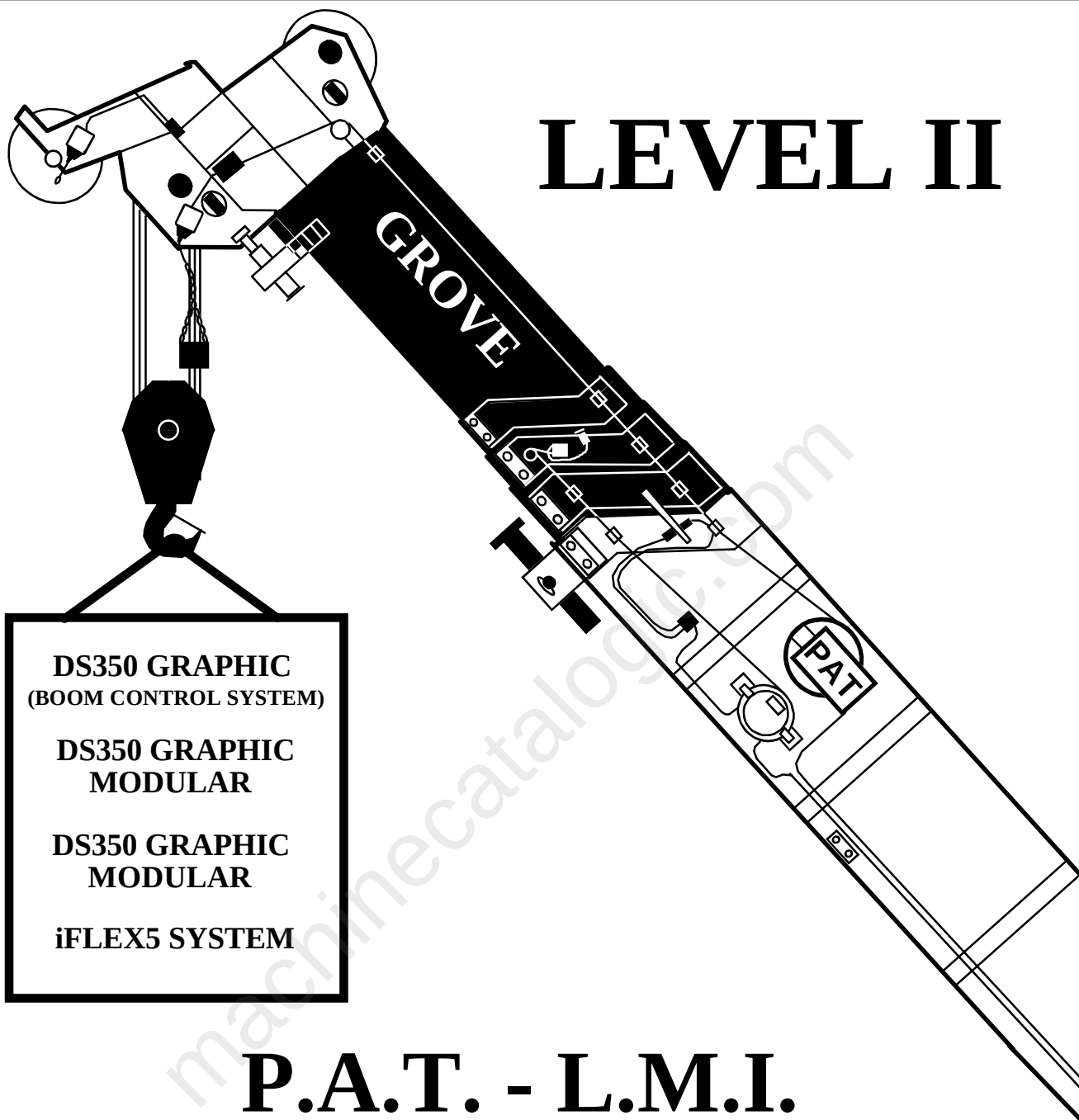




**DS350 GRAPHIC
(BOOM CONTROL SYSTEM)**

**DS350 GRAPHIC
MODULAR**

**DS350 GRAPHIC
MODULAR**

iFLEX5 SYSTEM

P.A.T. - L.M.I. SYSTEM MANUAL

GROVE®

TMS870,TMS870 & RT865B Hold Valve Drift Test – continued

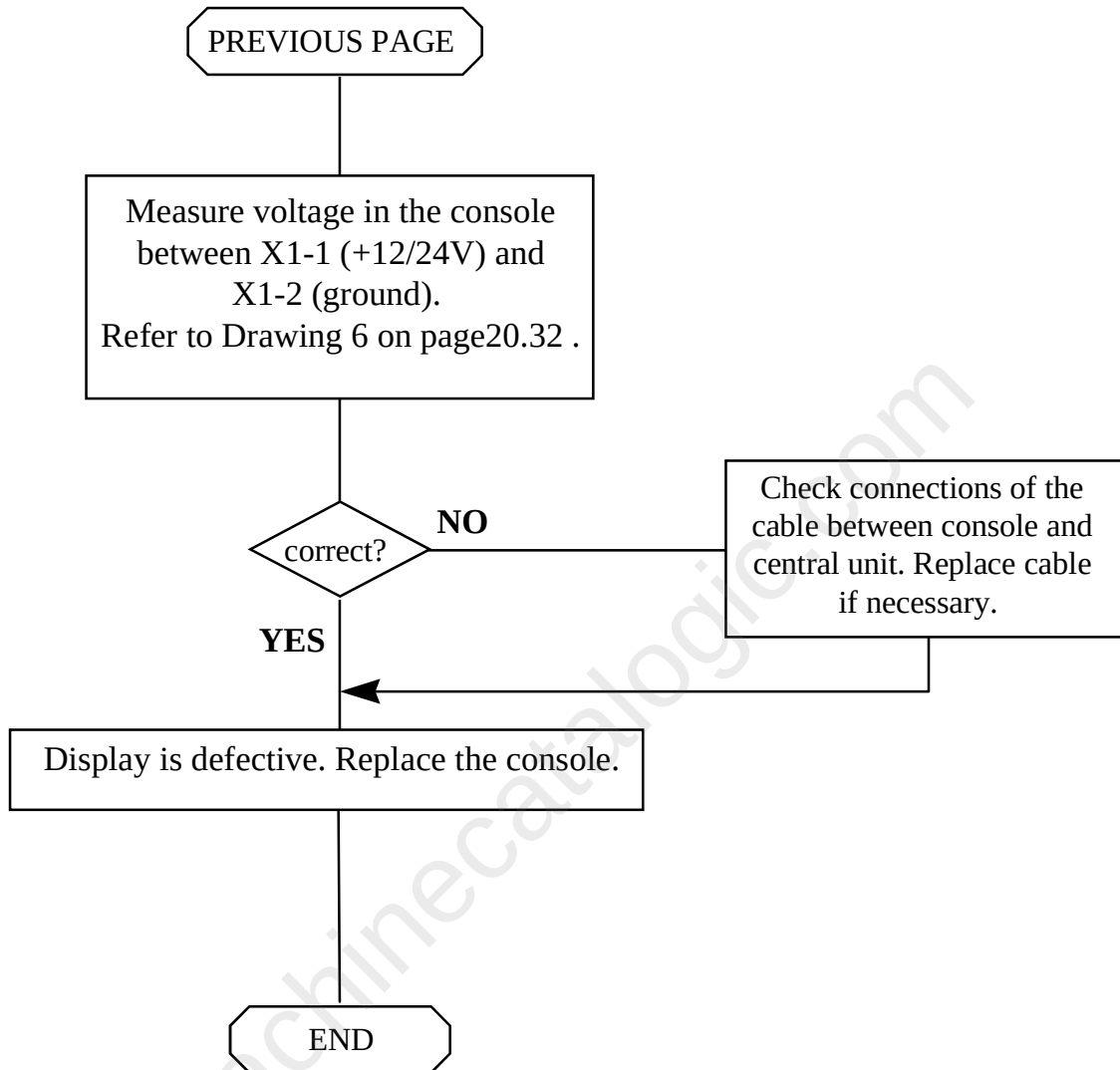
- 7 Repeat steps 2 through 5. If the section(s) do not retract in the manual mode, the hold valve is most likely leaking. If the section retracts, the cylinder may have an internal leak or both the hold valve and the two way valve on the piston side are leaking.

NOTE: The piston side two way valves located inside the boom are N.O. valves connected in-line with the hold valves. When in the Automatic Mode with the telescope controller in the neutral position and the power on, the piston side two way valves are not powered shut. This permits any leakage past the hold valve to drain through the piston side drain valve and the .078 in line orifice. When in the Manual Mode under the same conditions, the two way valves are powered shut on the sections not selected. This should block any leakage from the hold valve and prevent the cylinder from retracting. Prior to assuming that the cylinder has a leak, the two way valve should be checked to ensure that 24 volts are present at the valve with the system in manual mode with an other section selected.

Thermal contraction will cause a cylinder to retract as the fluid in the cylinder cools. The change in length of the cylinder is proportional to the extended length of the cylinder and the change of the temperature of the oil in the cylinder. The coefficient of expansion for API Group 1 oil is approximately 0.00043/ 0F. A cylinder that is extended 25' which has had the oil cool 100 F would retract about 13 "as the oil cools. A cylinder that is extended 2' which has had the oil cool 100 Degrees F will retract about 1" due to the thermal contraction. Testing the boom almost fully retracted greatly reduces the effect of thermal contraction and ensures a proper diagnosis of the system.

NO DISPLAY

continued

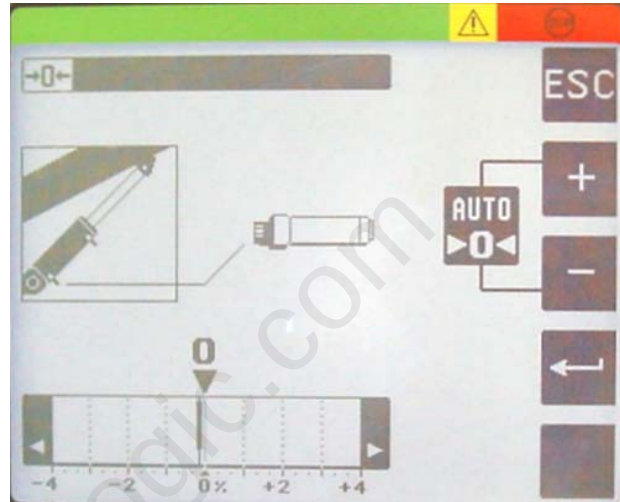


ZERO-SETTING THE TRANSDUCER INPUTS

NOTE: The only thing adjustable for the pressure transducers is the zero point, which is the voltage the transducer outputs when there is no (zero) pressure sensed.

CAUTION: Ensure there is no pressure in the hydraulic line when disconnecting the hoses from pressure transducers.

The display shows which transducer (piston-side, rod-side or force) is being zeroed and a horizontal dial marks the present pressure (or force) difference in %. By pressing the + key, the input pressure (or force) is adjusted upwards, and by pressing the minus (-)key, the input value is adjusted downwards. When the plus (+) and minus (-) keys are pressed simultaneously, the zero setting occurs automatically. Manual adjustments may be preformed using + or -.



Full Version Available

PAT DS 350 Load Moment Indicator Service Manual

PAT DS 350 load moment indicator service manual, with wiring diagrams, troubleshooting and iFLEX5 error codes. 504-page searchable PDF.

VIEW THE FULL MANUAL

<https://machinecatalogic.com/pat-ds-350-load-moment-indicator-service-manual/>

File Pages: 504 · File Count: 1 · File Language: English