

# OBE Test Procedures

Plug in power

- Prior to powering test box, verify the following.
  - Command knob (12) is fully turned counter clockwise to the min.
  - Toggle switch(11) is in the null position.
  - The test box output cable(1) is connected to the valve.
- Turn on power Switch(5).  
Command output meters will turn on (8,9&10).  
If feedback is above 2 volts with hydraulic pressure with no input command. It is possible there is contamination or stuck spool.  
Toggle the signal selector switch(11) to positive and negative slowly turn the command knob(12) clockwise.

**If the valve is functioning correctly, the feedback meter will follow the signal command meter +/-1V.**

Turn the command knob(12) back to the min position.  
Return the toggle(11) back to the null position.

**! Do not reverse position at full command . Doing so can cause damage to the machine.**

(Test cables are specific to valve model's)

# Servo Test Procedures

This test box will test a variety of servo valves from different manufacturers

Plug in the power cord

Prior to powering on the test box, verify the following.

- Servo command knob(7) is turned full to min position.
- Toggle switch(2) is in the null (center) position
- Test box output cable(1) is connected to the valve.

Place the toggle(3) desired position -25 ma, 100ma or 50 ma. ( Manufacture specific)

Place the Servo direction control switch(2) in to A/B or C/D position.  
➤ Turn the power on(5) .Command output and feedback meters(8,9&10) will come on

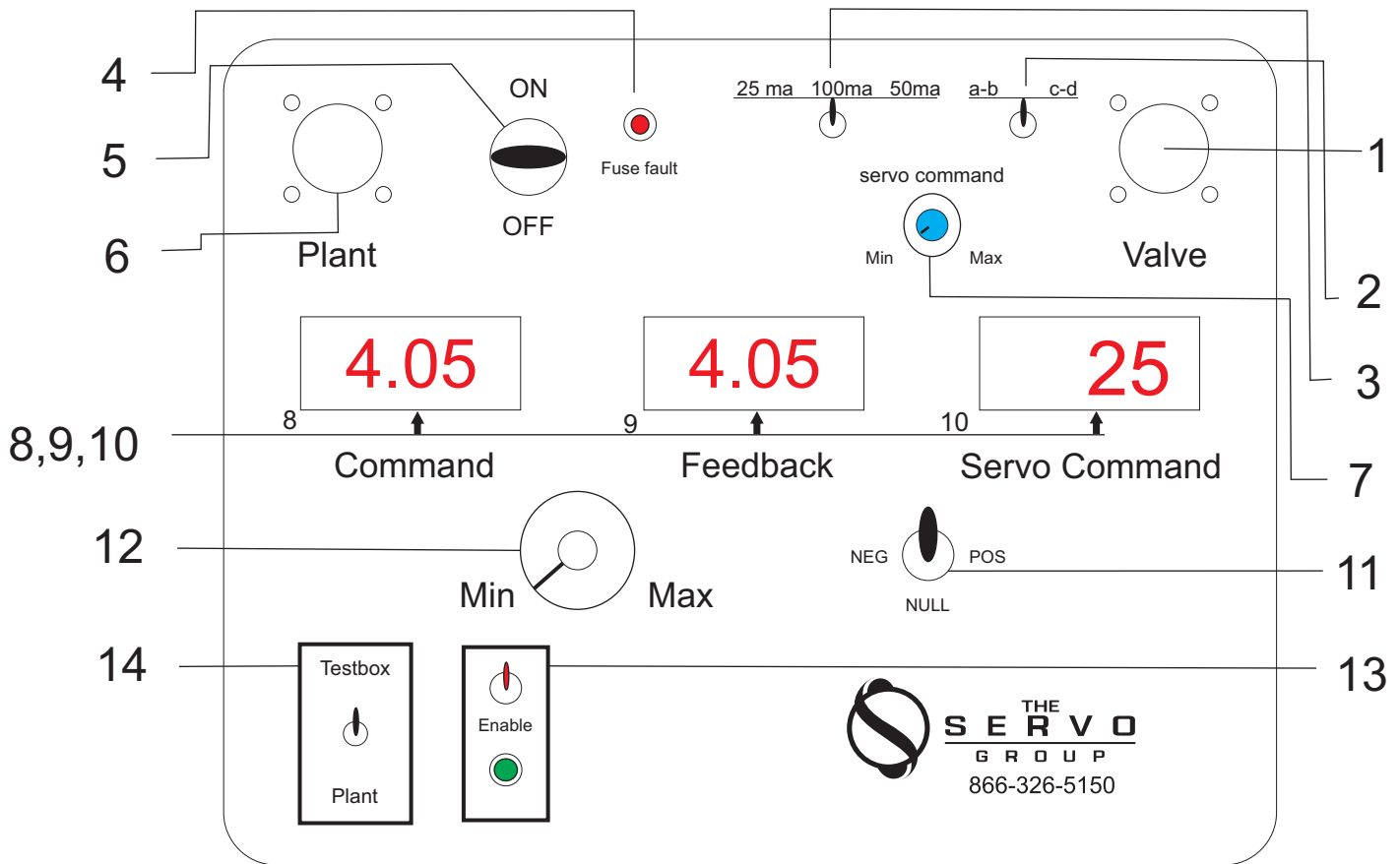
Slowly turn the Servo command knob (7) clockwise.

- The signal going to the valve will increase and display on the servo command meter(10).

**i Most Servo valves are mechanical and will display no electrical feedback.**

Turn servo command knob(7) counter clockwise to zero and place direction control switch(2) in opposite position and slowly turn the servo command knob(7) clockwise. Toggling the switch(2) left and right will cause the cylinder/ motor to change direction.

**! Do not reverse position at full command doing so can cause damage to the machinery.**



1. 19 Pin test box output.
2. Servo direction control switch.
3. Current selector switch.
4. Fuse Fault indicator LED.
5. Power ON/OFF switch.
6. 7 Pin plant input for OBE only .
7. Servo command knob.
8. Command input.
9. Command feedback from LVDT
10. Servo command.
11. Proportional valve direction control switch.
12. Proportional valve command input knob.
13. Enable for twelve pin high response valves only
14. Plant test box power input for 7 pin OBE only.

Additional cables.

- |                |   |
|----------------|---|
| TSG-TB-C-19-7  | Standard Bosch 7 pin  |
| TSG-TB-C-19-7E | Rexroth with enable 7 pin                                     |
| TSG-TB-C-19-12 | Bosch Rexroth and some Moog 12 pin                            |
| TSG-TB-C-19-4  | 4 pin servo. Please provide your valves wiring configuration. |
| TSG-TB-C-19-6  | Moog 15 volt 6 pin.   |
| TSG-TB-C-19-P  | Replacement power cord.                                       |