



Tool-Boss

A Scanwill Fluid Power product



Operating instructions and spare parts list

TB-501-N



Introduction:

The Scanwill Tool-**Boss** is a compact high pressure hydraulic booster, designed for a life in the field. It provides quick advance and retract for high pressure single acting spring return tools at 10.000 Psi, with an inlet pressure as low as 1850 Psi.

The Tool-**Boss** features a built-in pressure intensifier, pressure regulator and a safety relief valve to ensure a high level of precision and safety for the operator. It is designed for simple one-hand operation and is equipped with a pressure gauge for ensuring a perfect and consistent result, every time.

As a key safety feature the pressure regulation and the safety relief valve are two separate and independent mechanical valves, placed in each end of the unit. This creates a very high level of safety for the operator when working with high pressure equipment.

The Tool-**Boss** is designed to perform in hydraulic systems with a high back pressure, and is able to handle resistance up to 700 Psi, and still maintain the normal fast advance and retraction.

NOTE:

The pressure control and the safety valve are preset by the manufacturer, and it can lead to severe damage of the unit if tampered with. If different pressure ranges are desired, please contact your local dealer of the **Tool-Boss**.

Specifications:

Max outlet pressure: 10.000 Psi

Flowrange: 0,5- 6,0 gal/min

Measures: 15,5 x 11,5 x 5,5 inches

Weight: 50 LBS

Oiltype: Mineral based hydraulic fluids VG 10 to VG 60

Max Temperature: 140 F

Minimum Inlet pressure: 1850 Psi (minimum 1850 Psi is needed to obtain the full 10.000 Psi)

Recommended oil cleanliness according to ISO 4406.: 17/15/12 or lower

Connections:

Inlet: 3/8 NPTF

Outlet: 3/8 NPTF

HP Port: 3/8 NPTF



Operating Instruction

The unit is designed to be placed on the outside the lift cage, and must be supplied with hydraulic pressure, and a tank connection. The pressure must be connected to the port named "INLET", and the tank connection must be connected to the port named "OUTLET". The hose for the high-pressure clamping tool must be connected to the port named "H.P. OUTLET". For starting the clamping tool push the lever, marked POS 1 all the way towards the "press" mark. The tool will build up pressure to 10.000 PSI. For releasing the clamping tool, push the lever marked "pos 1" all the way to the "release" marking. The cylinder will now retract. If the handle is not manually activated the cylinder will stand still.

For installing the Tool-Boss

1. Place the Tool-Boss in a safe and suitable place of use
2. Connect you return hose to the port marked "outlet"
3. Connect your pressure hose to the port marked "Inlet"
4. Connect the hose from the cylinder to the port marked "H.P Outlet"

The Tool-Boss is now hydraulically connected.

For operating the Tool-Boss

1. For activating the crimping process active lever 1 all the way towards the "Press" mark. The lever is spring return and must be held for as long as the crimping is going on.
2. On manometer, pos 2, it is possible to see how much pressure has been obtained. The green field is indicating 10.000 Psi
3. For retracting the cylinder after reaching desired end pressure, pull the lever fully back towards the "Release" mark, and hold it there until you are done retracting.

Note:

DO NOT KEEP RETRACTING AFTER THE CYLINDER IS ALL THE WAY BACK

The unit is made so the maximal outlet pressure is fixed to 10.000 PSI. There is a safety valve which will automatically engage should the pressure rise beyond the set point.





General maintenance and cleaning:

The Tool-**Boss** is in general maintenance free, however it is recommended to keep the unit as clean as possible.

- Keep the outer surface as clean as possible
- Seal off all ports and connections when not in use
- Keep all hose connectors clean and free of dirt
- Equipment connected to the unit must be kept clean
- Use a high-grade hydraulic fluid, and absolute filters
- Make sure correct service is given to external hydraulic system

Note:

The most common reason for failure of hydraulic component is dirt. Make sure to keep a clean hydraulic system internal as well as external.

Preventive maintenance:

- Disconnect the unit from the supply system before performing maintenance or repairs.
- Maintenance and repairs must be performed in a suitable and clean environment.

Note:

All service and repairs must be performed by a qualified technician.



Trouble shooting	
Problem	Solution
Unit is not activating	Check all hose are connected according to the described installation
Slow moving tool	Air in system, run unit for some time to bleed the air
	Low oil level in hydraulic support system
	Hydraulic system does not meet minimum requirements, See specifications
Noise when running unit	Check the above mentioned points
Tool piston does not move	Check connectors are tight
Unable to reach max pressure	Hydraulic system is not giving min. 1850 psi
	Dirt in the system is causing the valves to fail. Run system several times to flush the valves
	CV valves need to be changed, see specific instruction
Unit is running hot	A temperature of 140 F is normal, if the temperature goes higher, stop the unit, and search for the cause
Always contact your local dealer when in doubt	



Spare Parts		
Position	Number	Description
Pos 10	500-001	Manual directinonal valve
Pos 11	500-002	Pressure reduction valve, set
Pos 12	500-003	Pressure intensifier MP-M
Pos 13	500-004	Pressure return unit
Pos 14	500-005	Rubber spider
Pos 15	500-006	Check valve
Pos 16	POVTB-01	Scanwill shut off valve
Pos 17	500-comp	Hydraulic hose, kit 8 pcs
Pos 18	9-001	Hydraulic hose 1
Pos 19	9-002	Hydraulic hose 2
Pos 20	9-003	Hydraulic hose 3
Pos 21	9-004	Hydraulic hose 4
Pos 22	9-005	Hydraulic hose 5
Pos 23	9-006	Hydraulic hose 6
Pos 24	9-007	Hydraulic hose 7
Pos 25	9-008	Hydraulic hose 8
Pos 26	9-010	Hydraulic hose for manometer
Pos 27	500-010	Safety releif valve
Pos 28	500-011	Manometer
Pos 29	500-012	Valveblock inlet/Outlet
Pos 30	500-013	Valveblock HP
Pos 31	500-014	Casing
POS 32	9-009	Hydraulic hose 9





