

CHECKING HYDRAULIC PRESSURES (MILLING MACHINES)

ROADTEC MILLING MACHINES UTILIZE HYDROSTATICS TO DRIVE THEIR PROPULSION AND OPERATIONAL FUNCTIONS. EACH FUNCTION OPERATES WITH ITS OWN HYDROSTATIC SYSTEM. FOR EXAMPLE, THE PRIMARY CONVEYOR INCORPORATES ITS OWN PUMP, VALVES AND MOTOR. THE SAME HOLDS TRUE FOR THE SECONDARY CONVEYOR, DRIVE SYSTEM AND AUXILIARY SYSTEM. FOR ALL THESE FUNCTIONS TO OPERATE PROPERLY THEY MUST MAINTAIN CERTAIN HYDRAULIC PRESSURES. THESE VARY, AND CAN BE FOUND ON THE CHART AT THE END OF THIS PROCEDURE.

THE FOLLOWING PROCEDURE CAN BE USED WHEN TAKING HYDRAULIC PRESSURE READINGS.

- 1) SAFETY IS THE FIRST STEP WHEN PERFORMING THIS PROCEDURE. MAKE SURE THAT EVERYONE INVOLVED IS A TRAINED PROFESSIONAL AND THAT THEY ARE WEARING ALL THE PROPER SAFETY EQUIPMENT.
- 2) BEFORE CHECKING PRESSURES STOP THE MACHINE AND ENGAGE THE PARKING BRAKE.
- 3) CERTAIN MODELS OF ROADTEC MILLING MACHINES HAVE ON BOARD HYDRAULIC PRESSURE GAUGES THAT CONSTANTLY DISPLAY PRESSURES FOR CERTAIN ITEMS. THESE USUALLY DISPLAY AUXILIARY PRESSURE, DRIVE PRESSURE, CLUTCH PRESSURE AND CONVEYOR PRESSURE. IF THERE IS NOT AN ONBOARD GAUGE FOR THE PRESSURE IN QUESTION THEN A GAUGE WILL NEED TO BE MANUALLY INSTALLED.
- 4) BEFORE ATTEMPTING TO INSTALL ANY PRESSURE GAUGE, BE SURE THAT THE IGNITION IS TURNED OFF, AND THE MACHINE IS COMPLETELY SHUT DOWN.
- 5) INSTALL THE PROPER PSI GAUGE INTO THE CORRECT TEST PORT OF THE PRESSURE THAT IS IN QUESTION. **DRIVE PRESSURE AND CONVEYOR PRESSURE HOSES WILL HAVE TO BE CAPPED OR "DEAD HEADED" TO GET AN ACCURATE READING.**
- 6) RESTART THE MACHINE AND ENGAGE THE FUNCTION.
- 7) CHECK THE GAUGE FOR PRESSURE. REFER TO THE CHART AT THE END OF THIS PROCEDURE FOR PROPER PRESSURE SETTINGS.
- 8) MAKE ANY NECESSARY ADJUSTMENTS OR REPAIRS TO OBTAIN THE PROPER PRESSURE READING.
- 9) TURN THE IGNITION OFF AND SHUT DOWN THE MACHINE.
- 10) DISCONNECT GAUGES, UNCAP AND RECONNECT PRESSURE HOSES, AND CONTINUE OPERATION AS NORMAL.

	<u>RX-20B</u>	<u>RX-25D</u>	<u>RX-45</u>	<u>RX-45B</u>	<u>RX-50B</u>	<u>RX-60</u>	<u>RX-60B</u>	<u>RX-60C</u>	<u>RX-68</u>	<u>RX-68B</u>	<u>RX-70</u>	<u>RX-70B</u>
AUXILIARY PRESSURE	2500 PSI	2500 PSI	2500 PSI	2700 PSI	2700 PSI	2700 PSI	2700 PSI	2700 PSI	2700 PSI	2700 PSI	2700 PSI	2700 PSI
DRIVE PRESSURE	5070 PSI	6090 PSI	6090 PSI	6090 PSI	6090 PSI	6090 PSI	6090 PSI	6090 PSI	6090 PSI	6090 PSI	6090 PSI	6090 PSI
CHARGE PRESSURE	350 PSI	350 PSI	350 PSI	350 PSI	350 PSI	350 PSI	350 PSI	350 PSI	350 PSI	350 PSI	350 PSI	350 PSI
CLUTCH PRESSURE	N/A	500 PSI	500 PSI	500 PSI	500 PSI	500 PSI	500 PSI	350 PSI	500 PSI	500 PSI	500 PSI	500 PSI
MAX BELT TENSION PRESS	N/A	N/A	600 PSI	600 PSI	600 PSI	600 PSI	600 PSI	600 PSI	450 PSI	600 PSI	500 PSI	600 PSI
MIN BELT TENSION PRESS	N/A	N/A	450 PSI	450 PSI	450 PSI	450 PSI	450 PSI	450 PSI	350 PSI	450 PSI	350 PSI	450 PSI
MOLDBOARD PRESSURE	150 PSI	150 PSI	150 PSI	150 PSI	150 PSI	150 PSI	150 PSI	150 PSI	150 PSI	150 PSI	150 PSI	150 PSI
TWO-SPEED PRESSURE	N/A	350 PSI	350 PSI	350 PSI	350 PSI	350 PSI	350 PSI	350 PSI	350 PSI	350 PSI	350 PSI	350 PSI
CONVEYOR PRESSURE	2800 PSI	4000 PSI	6090 PSI	6090 PSI	4640 PSI	3500 PSI	4640 PSI	4640 PSI	3500 PSI	4640 PSI	3500 PSI	4640 PSI
CONV. CHARGE PRESSURE	N/A	350 PSI	350 PSI	350 PSI	350 PSI	350 PSI	350 PSI	350 PSI	350 PSI	350 PSI	350 PSI	350 PSI
ENDGATE PRESS (DOWN)	N/A	N/A	N/A	N/A	1000 PSI	N/A	1000 PSI	1000 PSI	N/A	1000 PSI	N/A	1000 PSI
DRUM PRESSURE	6060 PSI	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HOOD PRESSURE	N/A	N/A	N/A	N/A	1500 PSI	N/A	1500 PSI	1500 PSI	N/A	1500 PSI	N/A	1500 PSI
BRAKE RELEASE PRESS	2500 PSI	2500 PSI	2500 PSI	2700 PSI	2700 PSI	2700 PSI	2700 PSI	2700 PSI	2700 PSI	2700 PSI	2700 PSI	2700 PSI

350 MIN
750 MAX
STARTING
S/N 106