

FUNCTIONAL TEST INSTRUCTIONS 4th Input Display Mode **Self Test Mode:** To Begin Test in Self Test Model: TO Begin Testing in Input Display Mode: 1. Plug in the following connectors; J5, J6, J8, J10,J17 CLOSE switchs SW2 and SW3 1. CLOSE switch SW7 2. Connect power supply ground to J7(Stud). 2. CLOSE SW9 switch 2. SW9=CLOSE (Turn on Power) 3. Connect power supply 24 Volts to J11(Stud). 3. Two seconds after Main contactor turns on, OPEN switches SW2 and SW3. 3. Open switch SW7 after LED D13 starts to blink. 4. Perform the five Operation Models to complete test. 4. Wait, while Self-Test operates automatically. Test takes about 40-sec. 4. Confirm that HOUR METER light turns on momentarily after power up. 5. After Self-Test has finished, one of two things will happen. 5. OPEN SW 11= LED D12 is ON a,System OK=D1 will light also LED's D12 through D16 remain on 6. CLOSE SW 11 = LED D12 is OFF b, System NOT OK = Error Codes will be displayed using other panel LEDs 7. CLOSE SW 12 for 5-7 seconds. = LED D11 latches ON St Display Software Revision Mode: 6. If System NOT OK-See Error Codes below 8. OPEN SW 12 = LED 11 remains ON 7. If System OK, Open SW 9. (Turn off Power) 9. OPEN SW 13 for 5-7 seconds.= LED D10 latches ON To Begin Testing in Display Software Revision Error Codes will be displayed with either flashing or solid illuminated LED. 10.CLOSE SW 13 = LED D10 ramains ON CLOSE switch SW 1. Flash LED = OPEN fault 11.CLOSE SW 14 = Beeper ON (sounds) 2. COLSE switch SW 9 (Turn ON Power) Solid LED = SHORT fault 12. OPEN SW 14 = Beeper OFF (slient) 3. Confirm all panel LED's illuminate momentarily after power up (D1through D17) Self Test Error Codes 13.CLOSE SW 15 = Beeper ON (One second and one off.) 4. Confirm the blinking illumination, either LED D4 or LED D7. LED (Flashing = OPEN, Solid = SHORT)System at Fault 14.If silent. Jump to: (Enable Reverse Alam) and then restart Input Display Mode. 5. OPEN switch SW1. 1.D2 Fast Pump 15. OPEN SW 15 = Beeper OFF (silent) 6. Open SW9. (Turn OFF Power) 2.D3 Vacuum-Fan 16. OPEN Forward Switch = NOT USED 3.D4 Right Brush 17.CLOSE Forward Switch = NOT USED 4.D5 Left Brush 18. Confirm that SW 8 is CLOSED and LED D2 is ON 19.OPEN SW 8 = LED D2 must turn OFF and Beeper repeats a NINE beep sequence. 5.D6 Head Actuator 2nd Normal Mode: 20.CLOSE SW 8 = LED D2 remains off and beeper continues. 6.D1 Water Valve 21. Open SW9. (Turn off Power) 7.D8 Squeegee Actuator 8.D9 Brake To Begin Testing in Normal Mode: **Enable Reverse Alarm** 9.D11 Beeper/Horn 1. Insure all input signals are in start positions. Power up machine in REVERSE while holding the HORN button. • SW10 =CLOSED 2. Continue to hold the HORN button: • SW8 =CLOSED If HORN sounds, reverse alarm is enabled • SW11=CLOSED If HORN is silent, reverse alarm is disabled • SW12=OPEN 3. Shut off machine, setting is stored. • SW13=CLOSED • SW15=OPEN • SW14=OPEN 2. SW 9=CLOSE (Turn on Power) 5th Propel Test Mode: 3. All panel LED's illuminate momentarily after power up.(D1 through D17) 4. Turn OFF D2 if it remains illuminated. Do this by momentarily closing SW2. To Begin Testing in Propel Test Mode: 5. Monentarily close SW6 1. CLOSE Switches SW2 and SW4. 6. Monentarily close SW7. One of three LEDs(D7,D8,D9)must turn OFF. 2. CLOSE SW9 switch 7. Monentarily close SW4 3. Two seconds after main relay is energized, OPEN switches SW2 and SW4 8. Monentarily close SW5. One of three LEDs(D4,D5,D6)must turn OFF. 4. Momentarily increase voltage on J6-34 for two seconds, from 0.9 volts to 2.0 volts. 9. Open SW10 5. Observe Two LEDs Illuminate, (D15 and D16). Power Supply AMP draw must measure Between, 5 & 10 AMPS of current. 10. Confirm the beeper is repeating an EIGHT beep sequence. 6. Return voltage on J6-34 to 0.9 volts. 11. Close SW10. EIGHT beep sequences continue. 7. monetarily increase voltage on J6-33 for 3 seconds, from 0.9 volts to 3.0 volts. 12. Turn ON D2. Do this by momentarily closing SW2. 8. Observe LED's illuminate in sequence (D6,D5,D4) No LED's indicates the pedal is released 3 LED's indicates that the pedal is fully depressed. 13. Open SW9. (Turn off Power) 9. Return voltage on J6-33 back to 0.9 volts and observe LED's turn off in sequence (D4,D5,D6). 10. Open SW9. (Turn off Power) 11.End of Test. IARY DIMENSIONS ARE METRIC, REFERENC TENNANT UNLESS OTHERWISE SPECIFIED REV ECO IMENSIONS WITH BRACKETS ARE INCH. UNLESS DIMENSION TOLERANCING IN AFTER TREATMENTS AND FINISHES ALL UNTOLERANCED DIMENSIONS AR **DEVELOPMENT PART** ±1.5 ±[.06] MAY NOT BE REPRODUCED OR DISCLOSED PART NUMBER X.XX ±0.75 ±[.030] O OTHERS WITHOUT WRITTEN PERMISSION OF TENNANT COMPANY X.XXX ±0.250 ±[.0098] 1278135 SHEET 2 OF 3 CIRCUITBOARD, LOGIC [DISK T7/SSR] 10/28/2008 ANGLES ±2.0° STACEY CLEMENS 8

