3 5 6 FUNCTIONAL TEST INSTRUCTIONS 4th Input Display Mode: 3rd Self Test Mode: . Plug in the following connectors; J5, J6, J8, J9, J10. To Begin Testing in Self Test Mode: To Begin Testing in Input Display Mode: 1. CLOSE switches SW 2 and SW3. 2. Connect power supply ground to J7 (Stud). 1. CLOSE switch SW 7. 2. SW 9 = CLOSE (Turn on Power) 3. Connect power supply 24 Volts to J11 (Stud). 3. Two seconds after Main contactor turns on, OPEN switches SW 2 and SW 3. Perform the five Operation Modes to complete test. 2. CLOSE SW 9 switch. 4. Wait, while Self- Test operates automatically. Test takes about 40-sec. Display Software Revision Mode: 3. Open switch SW 7 after LED D13 starts to blink. 5. After Self- Test has finished, one of two things will happen. a. System OK = D1 willliaht also LED's D12 through D16 remain on. 4. Confirm that HOUR METER light turns on momentarily after power up. To Begin Testing in Display Software Revision b. System NOT OK = Error Codes will be displayed using other panel LEDs. 1. CLOSE switch SW 1. 6. If System NOT OK -See Error Codes below. 5. OPEN SW 11 = LED D12 is ON 2. CLOSE switch SW 9 (Turn ON Power) 3. Confirm all panel LED's illuminate momentarily after power up. (D1 through D17) 1. If System OK, Open SW 9. (Turn off Power) 4. Confirm the blinking illumination, either LED D4 or LED D7. 6. CLOSE SW 11 = LED D12 is OFF Error Codes will be displayed with either flashing or solid illuminated LED. 5. OPEN switch SW 1. Flash LED = OPEN fault.6. Open SW9. (Turn OFF Power) 7. CLOSE SW 12 for 5 – 7 seconds, = LED D11 latches ON Solid LED = SHORT fault Self Test Error Codes 8. OPEN SW 12 = LED D11 remains ON Normal Mode: LED (Flashing = OPEN, Solid = SHORT) System at Fault 9. OPEN SW 13 for 5 – 7 seconds. = LED D10 latches ON To Begin Testing in Normal Mode: 1. D2 Fast Pump 1. Insure all input signals are in start positions. 2. D3 Vacuum-Fan 10. CLOSE SW 13 = LED D10 remains ON • SW10 = CLOSED 3. D4 Right Brush • SW8 = CLOSED 4. D5 Left Brush 11. CLOSE SW 14 = Beeper ON (sounds) • SW11 = CLOSED 5. D 6 H ead Actu ator • SW12 = OPEN 12. OPEN SW 14 = Beeper OFF (silent) 6. Dl Water Valve SW13 = CLOSED 1. D8 Squeegee Actuator • SW15 = OPEN 13. CLOSE SW 15 = Beeper ON (One second on and one off.) 8. D9 Brake • SW14 = OPEN • J6-34 < 0.9v 9. D11 Beeper/Horn 14. If silent. Jump to: (Enable Reverse Alarm) and then restart Input Display Mode. • 0.3v < J6-33 < 0.9v 15. OPEN SW 15 = Beeper OFF (silent) 2. SW 9 = CLOSE (Turn on Power) 16. OPEN Forward Switch = NOT USED 3. All panel LED's illuminate momentarily after power up. (D1 through D17). 17. CLOSE Forward Switch = NOT USED 4. Turn OFF D2 if it remains illuminated. Do this by momentarily closing SW2. 18. Confirm that SW 8 is CLOSED and LED D2 is ON. **5.** Momentarily close SW6. 19. OPEN SW 8 = LED D2 must turn OFF and beeper repeats a NINE beep sequence. 6. Momentarily close SW7.. One of three LEDs (D7, D8, D9) must turn OFF. 20. CLOSE SW 8 = LED D2 remains off and beeper continues. 7. Momentarily close SW4. 21. Open SW 9. (Turn off Power) 8. Momentarily close SW5. One of three LEDs (D4, D5, D6) must turn OFF. **Enable Reverse Alarm** 9. Open SW10. 10. Confirm the beeper is repeating an EIGHT beep sequence. Power up machine in REVERSE while holding the HORN button. В 2. Continue to hold the HORN button: 5th Propel Test Mode: 11. Close SW10. EIGHT beep sequences continue. If HORN sounds, reverse alarm is enabled. To Begin Testing in Propel Test Mode: If HORN is silent, reverse alarm is disabled. 12. Turn ON D2. Do this by momentarily closing SW2. 1. CLOSE switches SW2 and SW4. 3. Shut off machine, setting is stored. 2. CLOSE SW9 switch. 13. Open SW9. (Turn off Power) 3. Two seconds after main relay is energized, OPEN switches SW2 and SW4. 4. Momentarily increase voltage on J6-34 for two seconds, from 0.9 volts To 2.0 volts. 5.0BSERVE TWO LEDS ILLUMINATE, (D15 AND D16). POWER SUPPLY AMP DRAW MUST MEASURE BETWEEN, 5 & 10 AMPS OF CURRENT MATERIAL SPECIFICATIONS: 6. Return voltage on J6-34 to 0.9 volts. 02 | 19348 | SCS | 08/08/201 7 .Momentarily increase voltage on J6-33 for 3 seconds, from 0.9 volts To 3.0 volts. OTHER TREATMENTS AND FINISHES PAINT - PERFORMANCE | PAINT - ACCEPTANCE REV ECO 8. Observe LED's illuminate in sequence (D6, D5, D4) No LED's indicates the pedal is DO NOT GENERAL NOTES released. 3 LED's indicates that the pedal is fully depressed. OLERANCES UNLESS OTHERWISE NONE SCALE DWG 9. Return voltage on J6-33 back to 0.9 volts and observe LED's turn off in sequence (D4, WN: RICK ELUSHIK OTHERWISE SPECIFIED ALL DIMENSIONS ARE AFTER TREATMENTS AND FINISHES. 08/13/2009 D5, and D6). 10. Open SW9. (Turn off Power) DWG PART NUMBER es: stacey clemens O OTHERS WITHOUT WRITTEN PERMISSION SURFACES 3.2 RMS 10/28/2008 F TENNANT COMPANY. 11. End ofTest. 1058101 CIRCUITBOARD, LOGIC, [CYL T7/SSR-REV 17 SHEET 2 OF 3 | () () 5 8 6