



SWITCH / HARNESS KIT

For Models: 5100E

The purpose of the this kit is to reconfigure the machine to avoid a possible relay shorting condition during brush release.

INSTALLATION INSTRUCTIONS:

Installation Time: 1 Hour

TOOLS REQUIRED: Flat and Phillips Screwdrivers, 5.5mm Nut Driver, Wire Cutters

1. Turn off all switches and unplug power cord.

FOR SAFETY: Before leaving or servicing machine, stop on level surface, turn off machine and unplug cord from wall outlet.

AT THE CONTROL CONSOLE

2. Remove front shroud and rear control panel (Fig. 1).



Fig. 1

3. Disconnect wires #18 brown and #22 black from the the brush release switch. Remove and discard the switch (Fig. 2).

KIT CONTENTS		
P/N	DESCRIPTION	QTY.
1034065	Switch, STDP, 250VAC, 10A	1
1033619	Harness, Switch	1

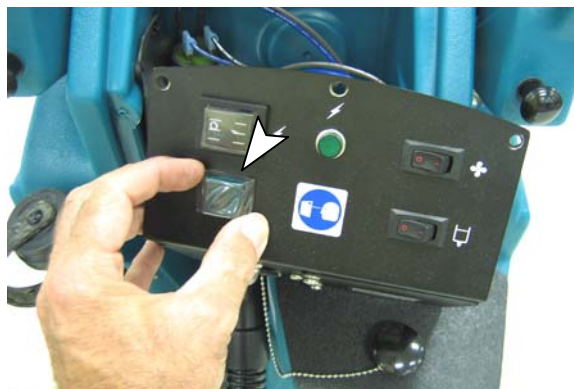


Fig. 2

4. Install new brush release switch (1034065) into panel, oriented as shown on back view (Fig. 3).

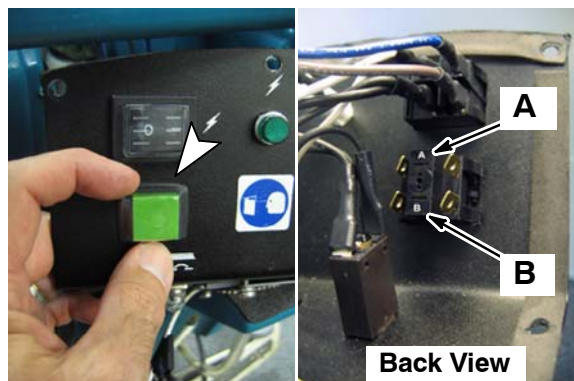


Fig. 3

5. Route new harness (1033619) down to scrub head area, parallel to existing harness (Fig. 4). The end of harness with uneven length wire leads goes towards brush motor. The end of harness with even wire leads goes to new switch. Use wire ties to secure the new harness to the main harness as necessary. Make sure the harness is clear of moving parts to prevent possible damage.

INSTALLATION INSTRUCTIONS - Continued

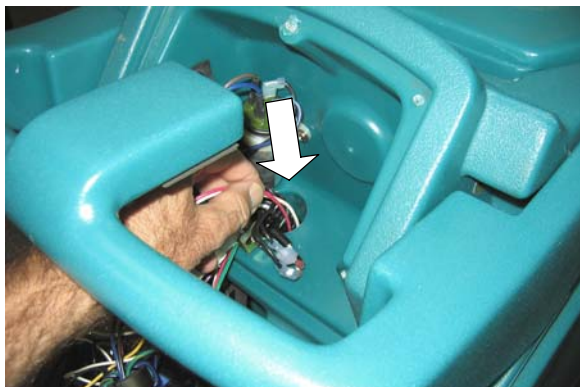


Fig. 4

6. Re-attach wires #18 brown and #22 black to new brush release switch as shown. Attach new harness (1033619) to switch as shown, being sure to use the end of the harness that has even length wire leads (Fig. 5).

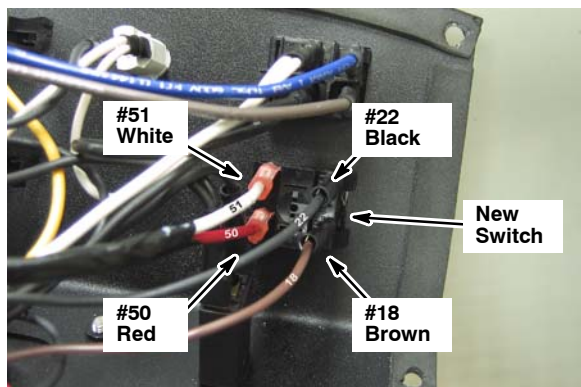


Fig. 5

AT THE SCRUB HEAD

7. Cut wire tie that holds existing wires together above the brush motor (Fig. 6).

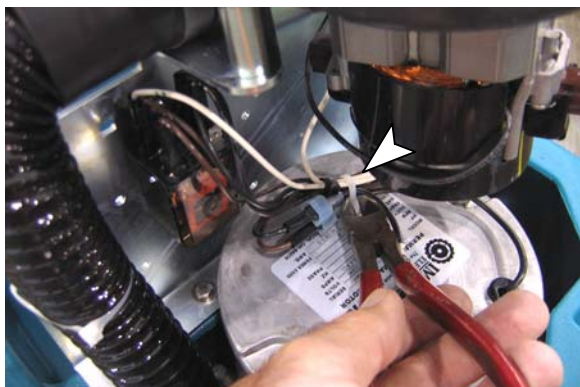


Fig. 6

8. Disconnect wires #11/25 white and #16 black from the rectifier (Fig. 7).

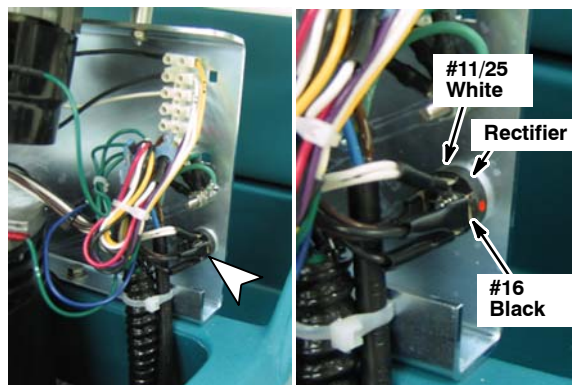


Fig. 7

9. Disconnect wire #16 black and #22 black from the brush relay (CR1/cr1) (*Note: relay may be removed from its mounting panel for better access to the wires*). Discard wire #16 black (Fig. 8).

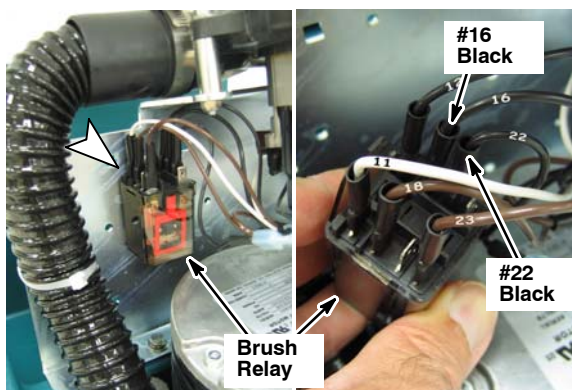


Fig. 8

10. Connect wire #22 black (formerly on brush relay) to the rectifier (+) side where wire #16 was removed earlier (Fig. 9).

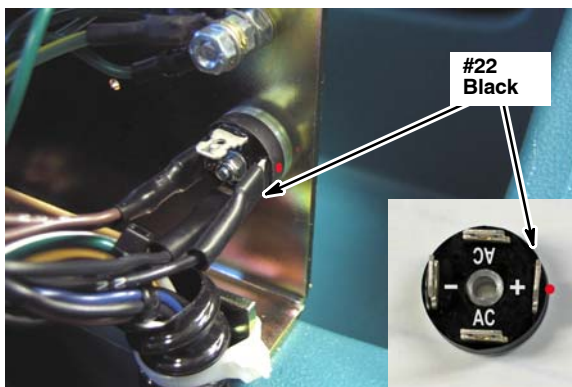


Fig. 9

INSTALLATION INSTRUCTIONS - Continued

11. Connect wire #51 white (from new harness) to the rectifier, where wire #11/25 was removed earlier (Fig. 10).

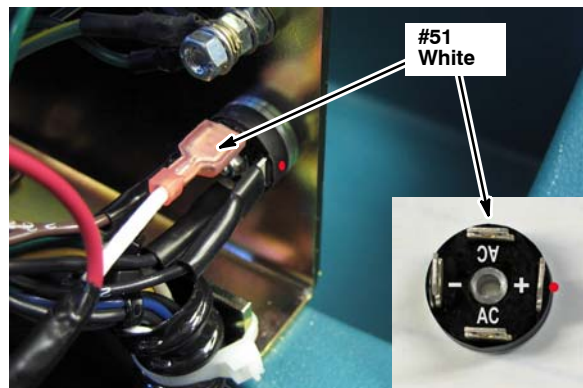


Fig. 10

12. Connect wire #11/25 white (formerly attached to rectifier) and wire #50 red (from new harness) to relay as shown (Fig. 11).

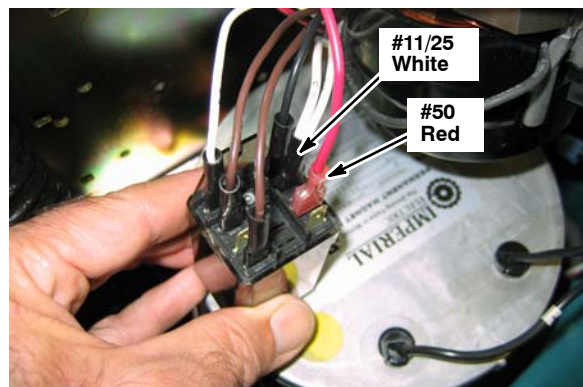


Fig. 11

13. Re-attach relay to the mounting panel if it was removed earlier.
14. Re-attach machine's rear control panel and front shroud.

TEST MACHINE FOR PROPER OPERATION

1. Raise scrub head to transport position. Step down firmly on scrub head lift pedal to raise (Figure 12).



Fig. 12

2. Turn on main power switch.
3. Tilt machine backwards.
4. Pull the brush triggers to start the motor, hold for 1-2 seconds (Figure 13A).
5. Release the brush triggers and, while the brush is still spinning, push the brush release switch. The brush will automatically spin off the motor hub. If brush does not release, repeat this step (Figure 13B).

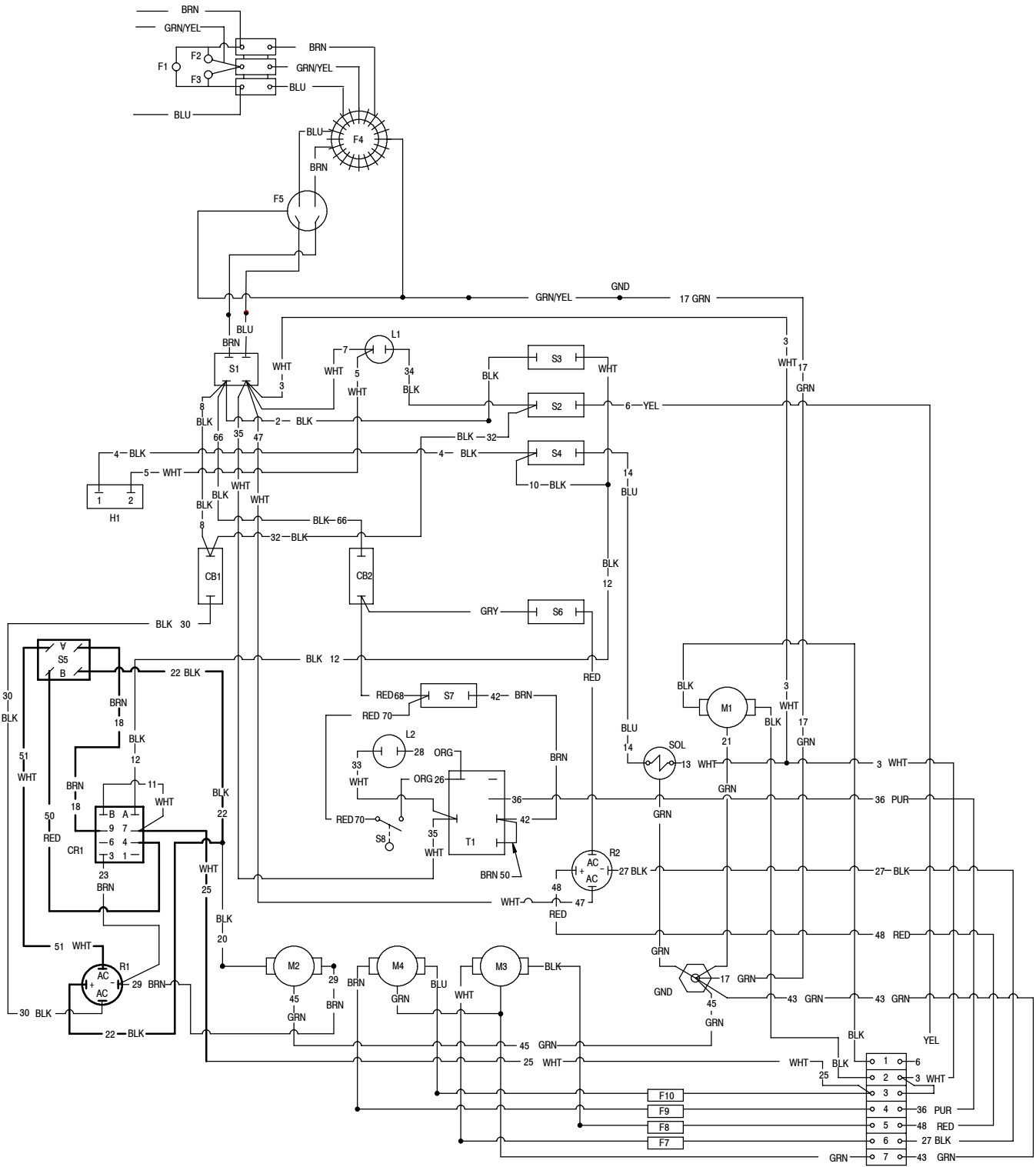


Fig. 13A



Fig. 13B

INSTALLATION INSTRUCTIONS - Continued



INSTALLATION INSTRUCTIONS - Continued

REF	English LEGEND	Deutsch SCHLÜSSEL	Français LÉGENDE	Nederlands LEGENDE	Español LEYENDA
RED=	Red	Rot	Rouge	Rood	Rojo
BLK=	Black	Schwarz	Noir	Zwart	Negro
GRN=	Green	Grün	Vert	Groen	Verde
WHT=	White	Weiß	Blanc	Wit	Blanco
ORG=	Orange	Orange	Orange	Oranje	Naranja
BLU=	Blue	Blau	Bleu	Blauw	Azul
BRN=	Brown	Braun	Brun	Bruin	Marron
PUR=	Purple	Purple	Purple	Purple	Purple
YEL=	Yellow	Yellow	Yellow	Yellow	Yellow
CR1 =	Contacteur Coil	Kontaktschalter	Conacteur	Schakelaar	Contacteur
cr1=	Contacteur Relay	Relais	Relais	Relais	Relé
CB1 =	Circuit Bkr. Main 4.5A	Sicherungsautomat	Coupe-circuit	Zekeringautomaat	Cortacircuitos
CB2 =	Breaker, Circuit .5A	Sicherungsautomat	Coupe-circuit	Zekeringautomaat	Cortacircuitos
H1=	Hourmeter	Betriebsstundenzähler	Compteur Horaire	Uurmeter	Cuentahoras
L1=	Light, Indicator	Kontrolleuchte	Lampe-témoin	Controllelampje	Lampara testigo
L2=	Light, Full Tank	Kontrolleuchte	Lampe-témoin	Controllelampje	Lampara testigo
M1=	Motor, Vacuum	Motor	Moteur	Motor	Motor
M2=	Motor, Brush	Motor	Moteur	Motor	Motor
M3=	Motor, Wand	Motor	Moteur	Motor	Motor
M4=	Motor, Recycle	Motor	Moteur	Motor	Motor
S1=	Switch, Main	Schalter	Interrupteur	Schakelaar	Interruptor
S2=	Switch, Vacuum	Schalter	Interrupteur	Schakelaar	Interruptor
S3=	Switch, Brush	Schalter	Interrupteur	Schakelaar	Interruptor
S4=	Switch, Solution	Schalter	Interrupteur	Schakelaar	Interruptor
S5=	Switch, Brush Release	Schalter	Interrupteur	Schakelaar	Interruptor
S6=	Switch, Wand	Schalter	Interrupteur	Schakelaar	Interruptor
S7=	Switch, Recycle	Schalter	Interrupteur	Schakelaar	Interruptor
S8=	Switch, Float	Schalter	Interrupteur	Schakelaar	Interruptor
Sol=	Valve, Solenoid	Elektromagnet	Solénoïde	Solenoid	Solenoid
T1=	Relay, Timer	Relais	Relais	Relais	Relé
V1=	Voltmeter	Voltanzeige	Indicateur	Voltmeter	Indicador
F1-10=	Filter	Filter, RFI	Filtre, RFI	Filter, RFI	Filtro, RFI
GND=	Ground	Masse	Masse	Massa	Masa
R1=	Bridge Rectifier	Gleichrichter	Rectificateur	Gelijkrichter	Rectificador
R2=	Rectifier, Bridge	Gleichrichter	Rectificateur	Gelijkrichter	Rectificador

INSTALLATION INSTRUCTIONS - Continued

