



SS 17-20 Service Launch

ENGLISH

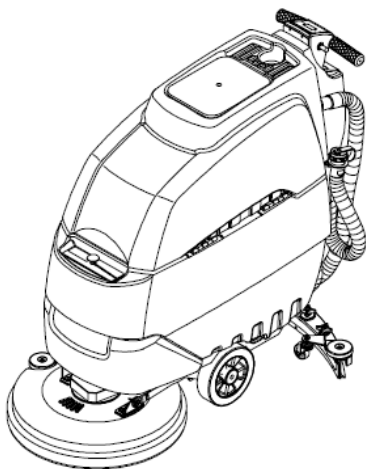


The Safe Scrubbing Alternative®

SPEED SCRUB®

17 in / 20 in AUTOMATIC SCRUBBER

OPERATOR MANUAL



1033583
Rev. 00 (03-2007)



www.nobles.com

- *Small Walk-Behind Scrubber*
- **24** volt, **2.5** hour run time
- *Solution Tank: 10.5 gallon (40 liter)*
- *Recovery Tank: 15 gallon (57 liter)*
- *Brush Motor: 1.0 hp (.746 kW)*
- *Vacuum Motor: 0.5 hp (.373 Kw)*
- *Drive Motor: .14 hp (.104 Kw)*
- *Scrub Heads:*
 - **17 inch (430mm)**
 - **20 inch (500mm)**





SS 17-20 Safety

WARNING LABEL - Located on recovery tank cover.

WARNING

EXPLOSION, FIRE AND SHOCK HAZARD. AVOID INJURY.

- Do Not Use or Pick Up Flammable Materials.
- Do Not Use Near Flammable Liquids, Vapors or Combustible Dusts.
- Disconnect Battery Cables and Charger Cord Before Servicing.
- Keep Sparks and Open Flame Away When Charging Batteries. Keep Battery Compartment Propped Open When Charging.

AVERTISSEMENT

RISQUE D'EXPLOSION, D'INCENDIE ET DE DÉCHARGE. ÉVITEZ LES BLESSURES.

- N'utilisez Pas ou Ne Ramassez Pas de Matériaux Inflammables.
- N'utilisez Pas Proche de Liquides, Vapeurs ou Poussières Inflammables.
- Débranchez les Câbles de Batterie et le Cordon du Chargeur Avant l'Entretien.
- Éloignez les Sources d'Étincelles ou de Flamme Ouverte Lors du Chargement des Batteries. Laissez Ouvert le Compartiment des Batteries Pendant la Mise en Charge.

ADVERTENCIA

PELIGRO DE EXPLOSIÓN, FUEGO, DESCARGA EVITE LESIONES.

- No Use O Recoja Materiales Flamables.
- No Use Cerca de Líquidos Flamables, Vapores O Materiales Combustibles.
- Desconecte Cable de Batería Y Cable Del Cargador Antes Del Mantenimiento.
- Mantenga Chispas Y Fuego Alejados Mientras Carga Baterías. Mantenga el Compartimento De La Batería Abierto Mientras Realiza La Operación De Carga.

警告

爆発、火災、またはショックの危険！ 怪我に注意！

- 引火性物質を使用したり吸引をしないでください。
- 可燃性液体、引火性気体、または粉塵の近くでは、使用しないでください。
- 本機の点検整備をするときはバッテリーのケーブルと充電器のコードを外してください。
- バッテリーを充電するときには、火花や炎を近づけないでください。充電するときは、バッテリールームを開けたままにしてください。

1035578



This machine is intended for commercial use. It is designed exclusively to scrub hard floors in an indoor environment and is not constructed for any other use. Only use recommended pads, brushes and commercially approved floor cleaners intended for machine application.



SPINNING BRUSH LABEL -
Located on scrub head

WARNING: Spinning Brush.
Keep Hands Away. Turn Off Power Before Working On Machine.

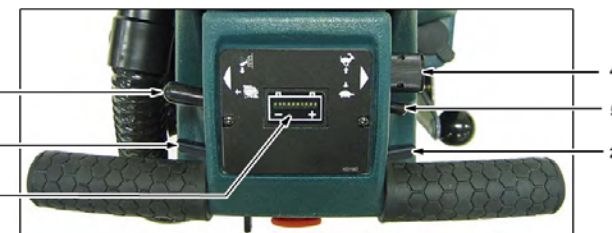
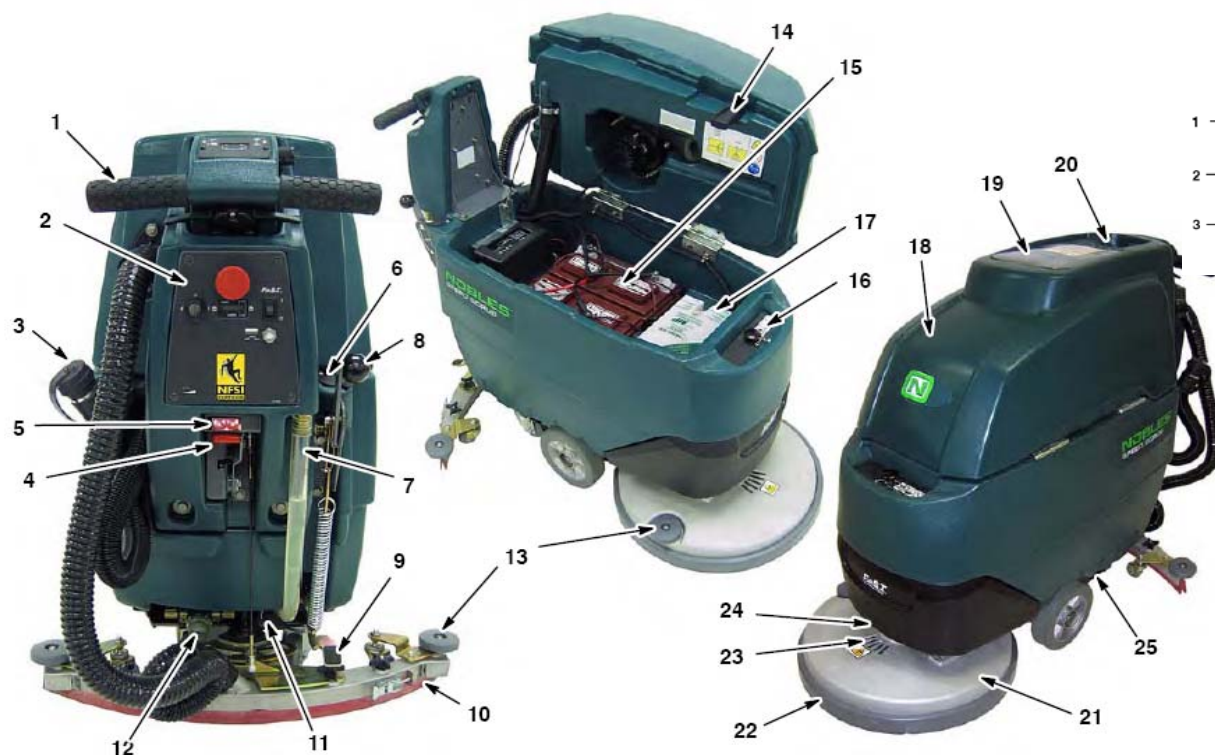


BATTERY CHARGE LABEL -
Located on bottom side of recovery tank.

WARNING: Fire Or Explosion Hazard. Batteries Emit Hydrogen Gas. Keep Sparks And Open Flame Away. Keep Battery Compartment Open When Charging.



SS 17-20 Machine Components and Controls



1. Reverse Trigger
2. Start Triggers
3. Battery Meter
4. Speed Control Knob (drive model)
5. Control Console Height Adjustment Lever



6. Emergency Stop Button (option)
7. Main Power on/off Key Switch
8. Hour Meter
9. FaST System on/off Switch (option)
10. Brush Motor Circuit Breaker Button

1. Adjustable Control Handle
2. Control Console Panel
3. Recovery Tank Drain Hose
4. Squeegee Lift Lever
5. Battery Charge Receptacle
6. Hose Fill-Port
7. Solution Tank Sight Gauge/Drain Hose
8. Down Pressure Lever
9. Scrub Head Lift Pedal
10. Squeegee Assembly
11. Solution Flow Control Knob
12. Solution Tank filter
13. Wall Rollers

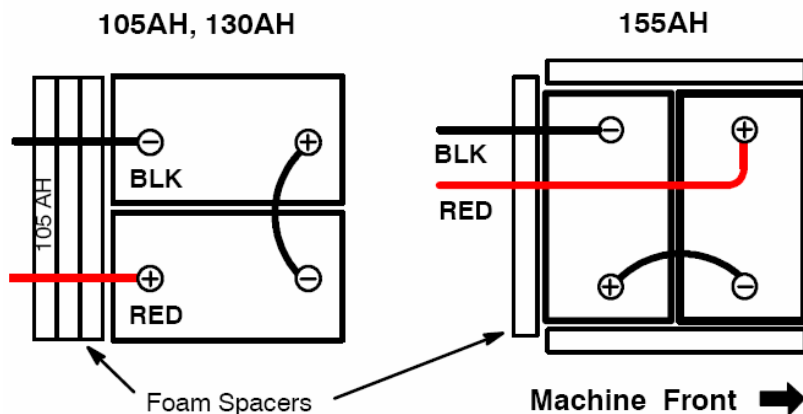
14. Recovery Tank Support Stand
15. Batteries
16. Solution Tank/Bucket Fill Port
17. FaST-PAK Concentrate (FaST Model)
18. Recovery Tank
19. Recovery Tank Cover
20. Cup Holder
21. Scrub Head
22. Scrub Head Skirt
23. Scrub Head Window
24. Motor Hub Lock Pin
25. Parking Brake (option)



SS 17-20 Installation

- 2-12 V Batteries - Optional
- 24V Battery Charger - Optional
- 3-Foam Battery Spacers (#630375)
- Battery Tray (#1012994)
- 15 in / 38 cm Battery Cable (#130364)
- 4-Battery Cable Rubber Boots
- 1-FaST-PAK MP Concentrate (#1017019) (*FaST Model*)
- Squeegee Assembly (#9001178)
- Pad Driver - Optional

Brushes and pads must be purchased separately.



Recommended Battery Specifications:

Two 12 volt deep cycle lead acid batteries.

105 AH battery - 17 in / 43cm Brush Assist Model

130 AH battery - 20 in / 50cm Brush Assist Model

155 AH battery - 20 in / 50cm Drive Model

Maximum battery dimensions: 6.85 in / 174 mm W x 15 in / 380 mm L x 11.18 in / 284 mm H.



SS 17-20 Battery Meters



The battery meter displays the charge level of the batteries. When the batteries are fully charged, all indicator lights will glow. As the batteries discharge, the indicator lights will begin to go out from right to left.

NOTE: To prolong the life of the batteries *ONLY* recharge the batteries when the machine is used for a total of 30 minutes or more.

DRIVE MODEL: When the discharge level reaches the first red light (Figure 24), stop scrubbing and recharge the batteries. If you continue to operate the machine beyond the first red light, the scrubbing function will automatically shut off when the last red light begins to blink. This protects the batteries from total discharge. Drive the machine to the charging area and recharge the batteries immediately.

NOTE: The Drive Model battery meter also displays machine fault codes. If a fault is detected the LED bars will flash specific fault codes (See BATTERY METER LED FAULT CODES on page 25).



BRUSH ASSIST MODEL: When the discharge level reaches the last yellow light (Figure 25), the light will begin to flash, stop scrubbing and recharge the batteries. If the red light appears, the scrubbing function will shut off automatically. This protects the batteries from total discharge. Recharge the batteries immediately.





SS 17-20 Brush and Pad Information

Polypropylene Bristle Scrub Brush (Black) -

Part No. 1016765 - 17 in / 43 cm

Part No. 1016811 - 20 in / 50 cm

This general purpose polypropylene bristle scrub brush is used for scrubbing lightly compacted soilage. This brush works well for maintaining concrete, wood and grouted tile floors.

Soft Nylon Bristle Scrub Brush (White) -

Part No. 1016764 - 17 in / 43 cm

Part No. 1016810 - 20 in / 50 cm

Recommended for cleaning coated floors without removing finish. Cleans without scuffing.

Super Abrasive Bristle Scrub Brush (Gray) -

Part No. 1016763 - 17 in / 43 cm

Part No. 1016805 - 20 in / 50 cm

Nylon fiber impregnated with abrasive grit to remove stains and soilage. Strong action on any surface. Performs well on buildup, grease, or tire marks.

Polishing Pad (White) -

Used to maintain highly polished or burnished floors.

Buffing Pad (Red) -

Used for light duty scrubbing without removing floor finish.



Scrubbing Pad (Blue) -

Used for medium to heavy-duty scrubbing. Removes dirt, spills, and scuffs and leaves surface clean ready for recoating.

Stripping Pad (Brown) -

Used for stripping of floor finish to prepare the floor for recoating.

Heavy Duty Stripping Pad (Black) -

Used for aggressive stripping of heavy finishes/sealers, or very heavy duty scrubbing.

SS 17-20 Maintenance



OK Svc ✓ Checklist

___ ___ **Tanks:** Clean & Drain
 ___ ___ Inspect Seal
 ___ ___ Clean filter screen



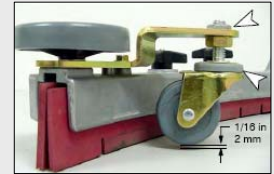
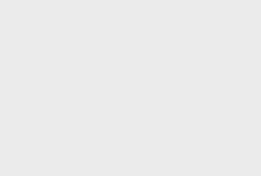
___ ___ **Float/Shut Off:** Remove & Clean



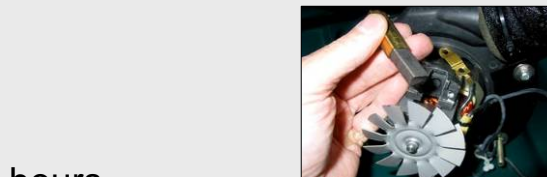
___ ___ **Pads/Brushes:** Clean and Rotate, or Replace



___ ___ **Skirt:** Inspect



___ ___ **Squeegee:** Rotate Blades
 ___ ___ Adjust Deflection



___ ___ **Batteries:** Clean Surfaces
 ___ ___ Check Electrolyte Level
 ___ ___ Check Terminal Connections



___ ___ **Lube:** Pivots & Rollers



___ ___ **Carbon Brushes:** Inspect/Replace after 750 hours



___ ___ **FaST Orifice Plate & Filter:** Replace after 1000 hours