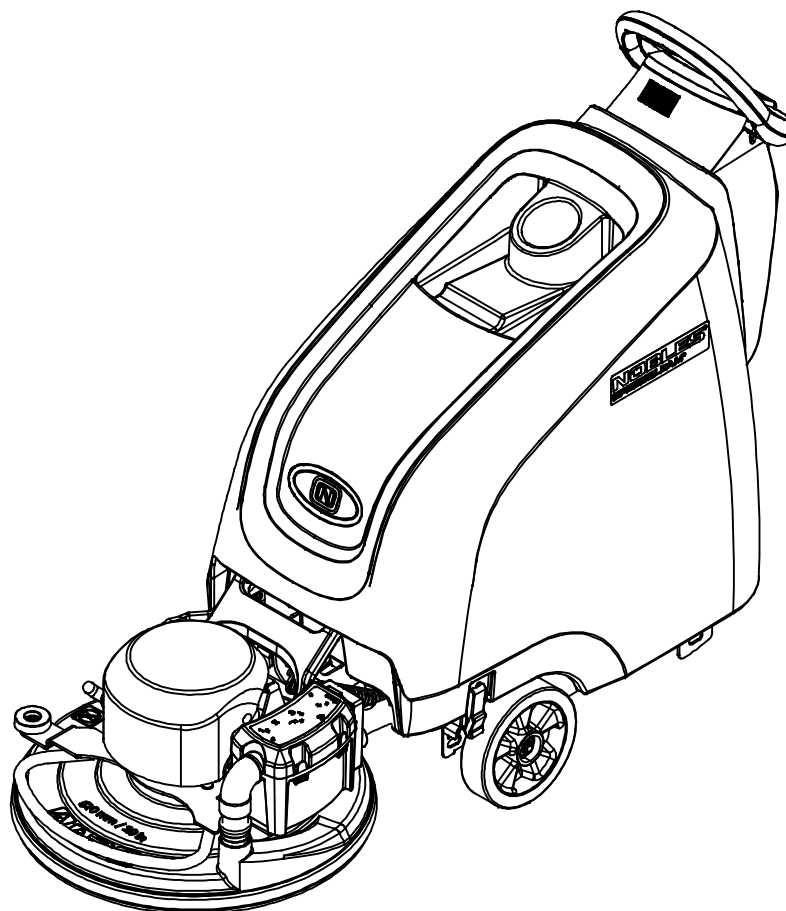




# SPEEDGLEAM® 5 / 7

WALK-BEHIND BATTERY BURNISHER

## OPERATOR MANUAL



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9011615  
Rev. 01 (01-2014)



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## INTRODUCTION

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This manual is furnished with each new model. It provides necessary operation and maintenance instructions.



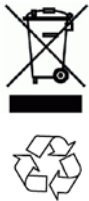
**Read this manual completely and understand the machine before operating or servicing it.**

A complete illustrated Parts Manual is also furnished with each new model. Use the Parts Manual to order replacement parts. To ensure prompt delivery, follow the "HOW TO ORDER PARTS" instructions printed in the Parts Manual.

This machine will provide excellent service. However, the best results will be obtained at minimum costs if:

- The machine is operated with reasonable care.
- The machine is maintained regularly - per the maintenance instructions provided.
- The machine is maintained with manufacturer supplied or equivalent parts.

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### PROTECT THE ENVIRONMENT

Please dispose of packaging materials and used machine components such as batteries in an environmentally safe way according to your local waste disposal regulations.

Always remember to recycle.

---

## INTENDED USE

---

The burnisher machine is intended for commercial use, for example in hotels, schools, hospitals, factories, shops, offices and rental businesses. It is designed to burnish smooth dry hard floor surfaces (VCT, terrazzo, marble, finished hardwood, coated concrete, etc.) in an indoor environment only. Do not use this machine on carpeted surfaces. Use only recommended burnishing pads intended for machine application. Do not use this machine other than described in this Operator Manual.

---

## MACHINE DATA

---

**IMPORTANT:** To ensure full warranty protection, fill out the attached MACHINE INSTALLATION / WARRANTY REPORT REPLY CARD and return to Tennant within 30 days of purchase.

Please fill out at time of installation for future reference.

Model No. - \_\_\_\_\_

Serial No. - \_\_\_\_\_

Installation Date - \_\_\_\_\_

### Tennant Company

PO Box 1452

Minneapolis, MN 55440

Phone: (800) 553- 8033 or (763) 513- 2850

[www.nobles.com](http://www.nobles.com)

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Trojan and HydroLINK are registered trademarks of Trojan Battery Company.

Specifications and parts are subject to change without notice.

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### IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS

---

The following warning precautions are used throughout this manual as indicated in their description:

**⚠ WARNING:** To warn of hazards or unsafe practices which could result in severe personal injury or death.

**FOR SAFETY:** To identify actions which must be followed for safe operation of equipment.

---

The following information signals potentially dangerous conditions to the operator. Know when these conditions can exist. Locate all safety devices on the machine. Report machine damage or faulty operation immediately.

**⚠ WARNING:** To Reduce the Risk of Fire, Explosion, Electric Shock or Injury:

- Read manual before operating machine.
- Do not use or pick up flammable materials.
- Do not use near flammable liquids, vapors or combustible dusts.

This machine is not equipped with an explosion proof motor. The electric motor will spark upon start up and during operation which could cause a flash fire or explosion if machine is used in an area where flammable vapors/liquids or combustible dusts are present.
- Batteries emit hydrogen gas. Explosion or fire can result. Keep sparks and open flame away when charging.
- Disconnect battery cables and charger cord before cleaning and servicing machine.
- Do not charge batteries with damaged cord. Do not modify plug.

If the charger supply cord is damaged or broken, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.

The use of incompatible battery chargers may damage the battery and potentially cause a fire hazard.
- Do not use outdoors or on wet surfaces. Store indoors. This machine is for dry use only.
- This machine is not suitable for picking up hazardous dust.
- Spinning pad, keep hands away.

#### FOR SAFETY:

1. Do not operate machine:
  - Unless trained and authorized.
  - Unless operator manual is read and understood.
  - Unless mentally and physically capable of following machine instructions.
  - Under the influence of alcohol or drugs.
  - While using a cell phone or other types of electronic devices.
  - If not in proper operating condition.
  - In outdoor areas. This machine is for indoor use only.
  - With pads or accessories not supplied or approved by Tennant. The use of other pads may impair safety.
  - In areas with possible falling objects.
  - In areas that are too dark to safely see the controls or operate machine.
  - Without dust bag and filters in place.
2. Before operating machine:
  - Make sure all safety devices are in place and operate properly.
3. When operating machine:
  - Use only as described in this manual.
  - Report machine damage or faulty operation immediately.
  - Wear closed-toe, non-slip work shoes.
  - Reduce speed when turning.
  - Keep hands away from spinning pad.
  - Go slowly on inclines and slippery surfaces.
  - Do not burnish on inclines that 9% grade or transport on inclines that exceed 19.5% grade.
  - Do not carry passengers on machine.
  - Use care when reversing machine.
  - Keep children and unauthorized persons away from machine.
  - Do not allow to be used as a toy.

4. Before leaving or servicing machine:
  - Stop on level surface.
  - Set the parking brake, if equipped.
  - Turn off machine and remove key.
5. When servicing machine:
  - Disconnect battery connection and charger cord before working on machine.
  - All work must be done with sufficient lighting and visibility.
  - All repairs must be performed by trained personnel.
  - Use Tennant supplied or approved replacement parts.
  - Do not modify the machine from its original design.
  - Avoid moving parts. Do not wear loose clothing or jewelry and secure long hair.
  - Do not disconnect the off-board charger's DC cord from the machine's receptacle when the charger is operating. Arcing may result. If the charger must be interrupted during charging, disconnect the AC power supply cord first.
  - Do not use incompatible battery chargers as this may damage battery packs and potentially cause a fire hazard.
  - Inspect charger cord regularly for damage.
  - Keep work area well ventilated.
  - Avoid contact with battery acid.
  - Keep all metal objects off batteries.
  - Do not power spray or hose off machine.
  - Use a hoist or adequate assistance when lifting batteries.
  - Jack machine up at designated locations only. Support machine with jack stands.
  - Block machine tires before jacking machine up.
  - Use a hoist or jack that will support the weight of the machine.
  - Wear personal protection equipment as needed and where recommended in this manual.
6. When loading/unloading machine onto/off truck or trailer:
  - Use a ramp that can support the machine weight and operator.
  - Do not operate the machine on a ramp incline that exceeds a 19.5% grade level.
  - Use a winch if ramp incline exceeds a 19.5% grade level.
  - Lower the pad driver after loading.
  - Turn machine off and remove key.
  - Set parking brake (if equipped).
  - Block machine wheels.
  - Use tie-down straps to secure machine.



For Safety: wear protective gloves.



For Safety: wear eye protection.



For Safety: wear protective dust mask.

## OPERATION

## SAFETY LABELS

The safety labels appear on the machine in the locations indicated. Replace labels if they are missing or become damaged or illegible.

**WARNING LABEL** - Located on side of control console.



**⚠ WARNING**

TO REDUCE THE RISK OF FIRE, EXPLOSION, ELECTRICAL SHOCK, OR INJURY:

- Read manual before operating machine.
- Do not use or pick up flammable materials.
- Do not use near flammable liquids, vapors or combustible dusts.
- Batteries emit hydrogen gas. Explosion or fire can result. Keep sparks and open flame away when charging.
- Disconnect battery cables and charger cord before servicing.
- Do not charge batteries with damaged cord. Do not modify plug.
- Do not use outdoors or on wet surfaces. Store indoors.

**⚠ AVERTISSEMENT**

POUR REDUIRE LES RISQUES D'INCENDIE, L'EXPLOSION, DE CHOC ELECTRIQUE OU DE BLESSURE:

- Lisez le manuel avant d'utiliser la machine.
- N'utilisez pas ou ne ramassez pas de matériaux inflammables.
- N'utilisez pas près de liquides, vapeurs ou poussières inflammables.
- Les batteries émettent du gaz hydrogène. Risque d'incendie et d'explosion. Évitez toute étincelle et toute flamme nue à proximité des batteries.
- Débranchez les câbles de batterie et le cordon du chargeur avant l'entretien.
- Ne chargez pas la batterie avec un cordon endommagé. Ne modifiez pas la prise.
- Ne pas utiliser en extérieur ou sur des surfaces humides. Ranger à l'intérieur.

**⚠ ADVERTENCIA**

PARA REDUCIR EL RIESGO DE INCENDIO, EXPLOSION, CHOQUE ELECTRICO, O LESIONES:

- Lea el manual antes de operar la máquina.
- No utilice ni recoja materiales inflamables.
- No utilice la máquina cerca de líquidos, polvos o vapores inflamables.
- Las baterías emiten hidrógeno gaseoso. Peligro de incendio o explosión. Mantenga chispas y llamas alejadas de la máquina.
- Desconecte los cables de la batería y del cargador antes de realizar operaciones de mantenimiento en la máquina.
- No cargue las baterías si el cable está dañado. No modifique el enchufe.
- No lo utilice en exteriores ni en superficies húmedas. No guarde el aparato a la intemperie.

1206004





**⚠ WARNING**  
Spinning Pad.  
Keep Hands Away.

**⚠ AVERTISSEMENT**  
Patin En Rotation.  
Éloignez Vos Mains.

**⚠ ADVERTENCIA**  
Almohadilla Giratoria.  
Mantenga Alejadas Las Manos.

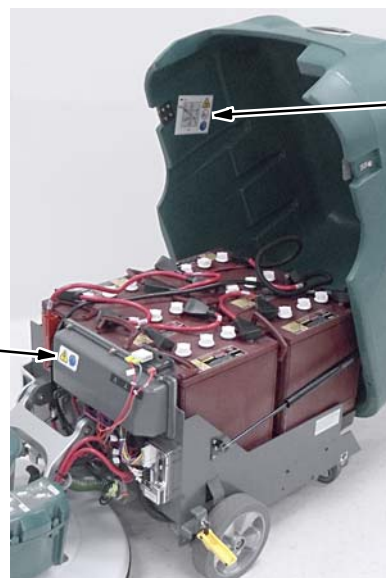
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**WARNING LABEL - Spinning Pad. Keep Hands Away.**  
Located on burnishing head.



**WARNING LABEL - Disconnect battery cables before servicing machine.**

Located on control board cover.

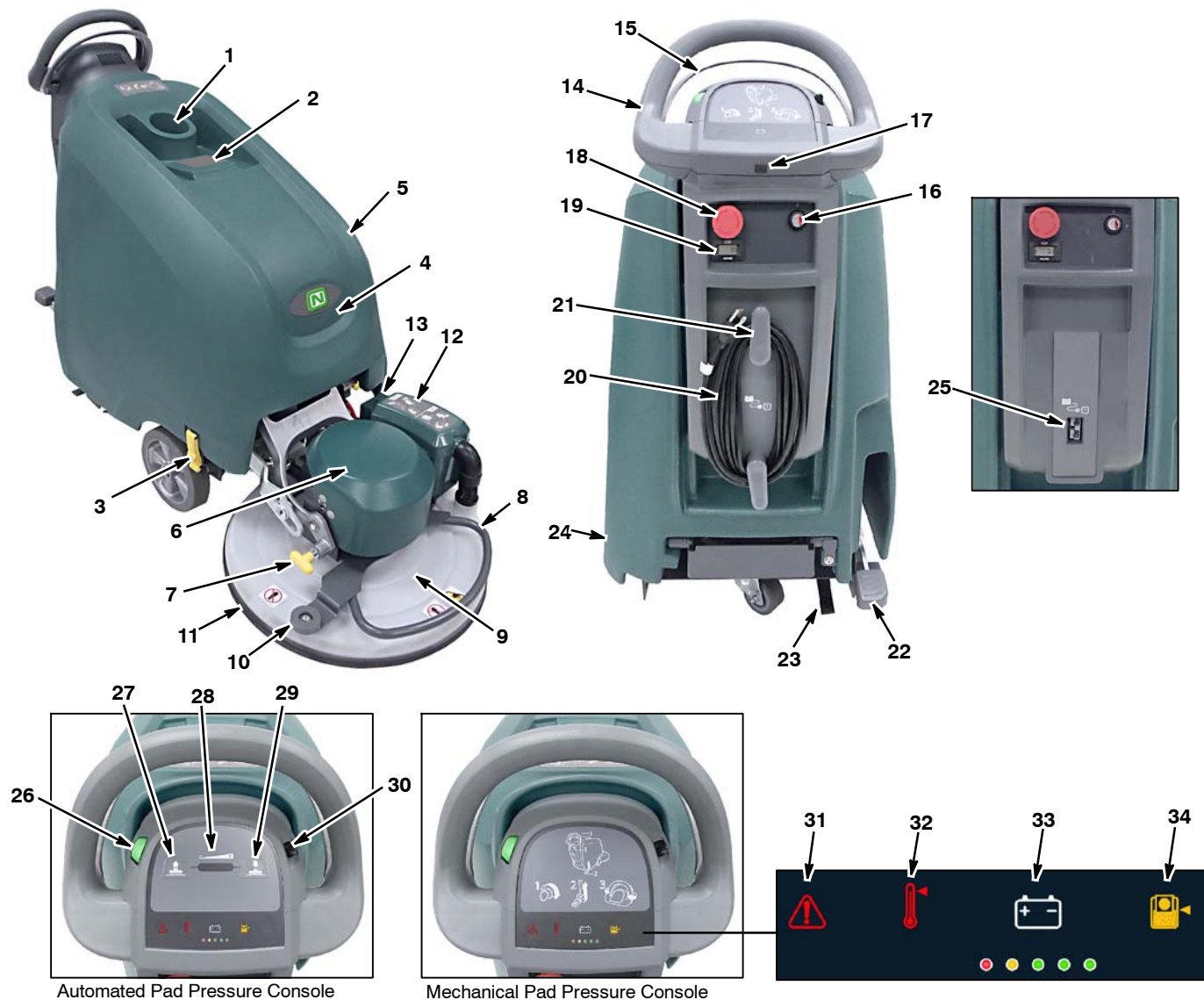


**WARNING LABEL - Batteries emit hydrogen gas. Explosion or fire can result. Keep sparks and open flame away when charging.**

Located on backside of machine cover.



## MACHINE COMPONENTS



1. Cup Holder
2. On-board Instruction Guide
3. Battery Compartment Hood Latches
4. Circuit Breaker Panel, located near batteries.
5. Battery Compartment Hood
6. Burnishing Pad Motor
7. Head Tilt Lock/Release Knob
8. Bumper/Head Lift Handle
9. Burnishing Head
10. Wall Roller
11. Dust Control Skirt
12. Dust Collection Bag Compartment
13. HEPA Filter (Active Dust Collection Model)
14. Control Handle
15. Start Bail
16. Main Power On/Off Key Switch
17. USB Program Port
18. Emergency Stop Button (Drive Model)
19. Hour Meter
20. On-board Battery Charger Cord
21. On-board Battery Charger Cord Storage Hooks
22. Burnishing Head Lift Pedal
23. Anti-static Strap
24. Parking Brake (Optional)
25. Off-board Battery Charger Receptacle
26. Speed Dial (Drive Model)
27. Pad Pressure Decrease Button (Automated Model)
28. Pad Pressure Indicator (Automatic Model)
29. Pad Pressure Increase Button (Automated Model)
30. Directional Lever (Drive Model)
31. Service Indicator
32. Motor Overheat Indicator
33. Battery Discharge Indicator
34. Check Dust Bag Indicator

---

### MACHINE INSTALLATION

---

#### UNCRATING MACHINE

1. Carefully check machine for signs of damage. Report damages at once to carrier.
2. Check the contents list. Contact distributor or Tennant for missing items.  
Contents:
  - Burnishing Pad (pre-installed)
  - Dust Collection Bag (pre-installed)  
Cloth bag (Option)
  - Battery Tray
  - Battery Watering System (pre-installed Option)
  - Off-Board Battery Charger (Option)
  - Charger Cord/off-board charger model (Option)
  - Parts Manual
  - Use & Care Guide Wall Chart20 in / 510mm Model:
  - 3 Batteries (pre-installed Option)
  - 2 Battery Cables
  - 6 Battery Post Rubber Boots
  - 1-2 Foam Battery Spacers24 in/610mm, 27 in/690mm Models:
  - 6 Batteries (pre-installed Option)
  - 5 Battery Cables
  - 12 Battery Post Rubber Boots
  - 2 Foam Battery Spacers (AGM Batteries)
3. To uncrate the machine, remove straps, wheel blocks and shipping brackets. Using the supplied ramp carefully back the machine off the pallet (Figure 1). Make sure the burnishing head is in the raised position.

**ATTENTION: Do not remove machine from pallet without using ramp, machine damage may occur.**



FIG. 1

---

#### INSTALLING BATTERIES

Contact distributor or Tennant for battery recommendations if machine is not supplied with batteries.

**IMPORTANT:** For machine's supplied with batteries and battery charger, the battery discharge indicator is factory programmed for battery type supplied. For machine's supplied without batteries, the machine's battery discharge indicator (BDI) is pre-programmed to work with wet/lead acid batteries as the default. If installing a different battery type (i.e. sealed, AGM batteries, etc.) the battery discharge indicator will need to be reprogrammed to prevent battery damage. See CHARGING BATTERIES for further details.

#### BATTERY SPECIFICATIONS:

##### SpeedGleam 5 Model -

3- 12 volt, deep cycle, 185 AH wet lead acid batteries (Push Model).

3- 12 volt, deep cycle, 225 AH wet lead acid batteries (Drive Model).

3- 12 volt, deep cycle, 234 AH AGM sealed batteries (Optional, Push and Drive Models)

##### SpeedGleam 7 Model -

6- 6 volt, deep cycle, 240 AH wet lead acid batteries (24 in/610mm Model).

6- 6 volt, deep cycle, 330 AH wet lead acid batteries (27 in/690mm Models).

6- 6 volt, deep cycle, 360 AH wet lead acid batteries (Optional, 24 in/610mm, 27 in/690mm Models).

6 - 6 volt, deep cycle, 312 AH AGM sealed batteries (Optional, 24 in/610mm, 27 in/690mm Models)

**⚠ WARNING: Fire Or Explosion Hazard.**  
Batteries emit hydrogen gas. Explosion or fire can result. Keep sparks and open flame away when charging.

**FOR SAFETY: When servicing machine, wear appropriate personal protection equipment as needed. Avoid contact with battery acid.**

1. Park the machine on a level surface, turn machine off and remove the key.
2. Unlatch the battery compartment hood latches and lift the hood backwards (Figure 2).
3. With adequate assistance carefully install the batteries into the battery compartment. Arrange the batteries as shown (Figure 3).



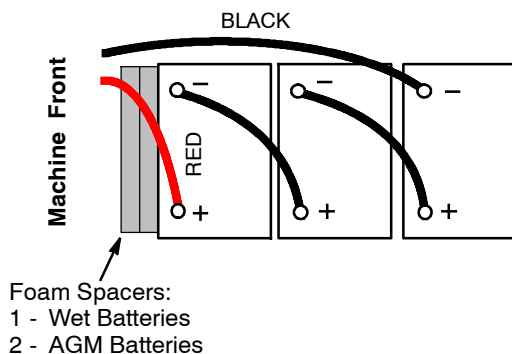


FIG. 2

**FOR SAFETY: When servicing machine, use a hoist or adequate assistance when lifting batteries.**

4. To keep the batteries from moving, position the supplied foam battery spacers as shown (Figure 3).
5. Using the supplied battery post boots, connect the cables to the battery posts as shown (Figure 3). Connect the machine's black (-) battery cable last. Use insulated tools when working near batteries.

#### B5 Model



#### B7 Model

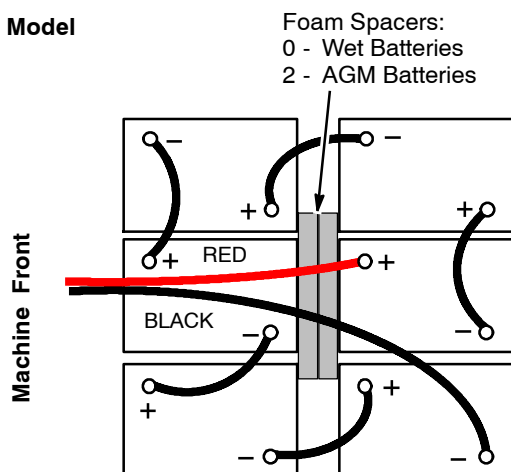


FIG. 3

## HOW THE MACHINE WORKS

The machine is powered by a 36V battery pack (Wet lead/acid or sealed/AGM batteries). The burnishing process is accomplished by a high-speed rotating pad with applied pressure and forward motion creating a smooth polished floor finish. The push model is assisted by the rotating pad and the drive model is equipped with a propel motor. The pad pressure and burnishing speed can be adjusted for floor type and floor condition. Depending on model, the pad pressure is mechanically adjusted or done by an actuator. The dust is collected with a passive or active dust control vacuum system. The passive dust control vacuum system uses centrifugal force from the rotating pad to create a vacuum for dust collection. The active dust control vacuum system model consists of a vacuum motor and a high efficiency HEPA rated filter. The burnishing function is controlled by a start bail at the control console.

## MACHINE SETUP

### INSTALLING BURNISHING PAD

There are many types of burnishing pads to choose from depending on floor type, finish and floor condition. Contact an authorized distributor for burnishing pad recommendations.

Each new machine comes equipped with one pre-installed burnishing pad.

Replacement Factory Supplied Burnishing Pads:

611788 - 20 in/510mm Hair Blend Burnishing Pad (Qty. 5)

1204254 - 24 in/610mm Hair Blend Burnishing Pad (Qty. 1)

1204255 - 27 in/690mm Hair Blend Burnishing Pad (Qty. 1)

**FOR SAFETY: Do not operate machine with pads or accessories not supplied or approved by Tennant. The use of other pads may impair safety.**

1. Park the machine on a level surface, turn machine off and remove the key.

## OPERATION

2. Step down and to the left on the burnishing head lift pedal to raise head off floor (Figure 4). Pull the head lift handle upward until head locks into the pad change position.



FIG. 4

3. Install the burnishing pad on pad driver (Figure 5). Make sure pad is centered on pad driver. Secure pad with center-lock. Do not operate machine without pad center-lock installed.



FIG. 5

4. Pull the head tilt lock knob to release the head from the pad change position (Figure 6).



FIG. 6

### PAD PRESSURE SETTING (Models equipped with mechanical pad pressure adjustment)

For models equipped with mechanical pad pressure adjustment, the pad pressure is factory set at the optimal setting. Many variables come in to play to achieving optimal burnishing performance; floor type, floor finish, floor condition and pad type.

To confirm that the factory setting best meets your burnishing application, it's recommended to perform the following procedure. Once the pad pressure is properly set for your burnishing application, this will provide consistent performance for your routine burnishing schedule. This is referred to as the "Set and Forget" method.

1. To activate the pad pressure mode, locate the hidden button (small indent) on the left side of the control panel (Figure 7).
2. Press and hold the hidden button and turn the key on. Hold the button until a single green light appears at the battery discharge indicator (Figure 7). When the button is released, the green light will turn off and the service indicator symbol will turn on.

The machine is now ready to verify the current pad pressure.



FIG. 7

3. Pull the start bail and begin burnishing for a minimum of 10 seconds (Figure 8). The LED's will ripple then a single light will appear confirming the current pad pressure setting. See the following chart for down pressure settings.



FIG. 8

LED Code	○=On	Down Pressure Setting
○ ● ● ● ●		Flashing - Too Low
○ ● ● ● ●		Low
● ○ ● ● ●		Medium Low
● ● ○ ● ●		Medium
● ● ● ○ ●		Medium High
● ● ● ● ○		High
● ● ● ● ○		Flashing - Too High

The medium down pressure setting is recommended. Determine the burnishing performance at this setting and adjust as necessary.

To adjust pressure setting proceed to the next step.

4. Raise the burnishing head and remove key. Locate the pad pressure adjustment cotter pin (Figure 9).



FIG. 9

5. To increase down pressure, move the cotter pin to the next hole towards the motor. To decrease the down pressure move the cotter pin in opposite direction (Figure 10).

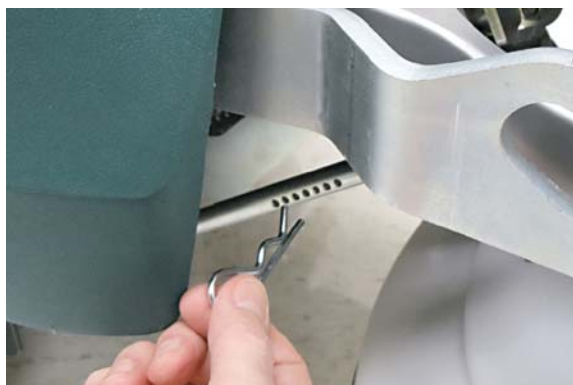


FIG. 10

6. Repeat steps 1-3 and adjust the pin until desired down pressure is achieved.

## INSTALLING DUST COLLECTION BAG AND HEPA FILTER

Each new machine is equipped with one pre-installed paper bag. Models equipped with the optional Active Dust Control system includes a pre-installed HEPA filter.

Replacement bags/filters:

p/n 1210869 - 1 package/10 paper bags

p/n 1208744 - Cloth bag (optional).

p/n 1203162 - HEPA filter

**NOTE:** The optional cloth bag is not intended for models equipped with the Active Dust Control system.

**FOR SAFETY: Do not operate machine without dust bag and filters in place.**

1. Park the machine on a level surface, turn machine off and remove the key.
2. Remove the the cover from the dust collection bag compartment. Press the two cover tabs to remove cover (Figure 11).

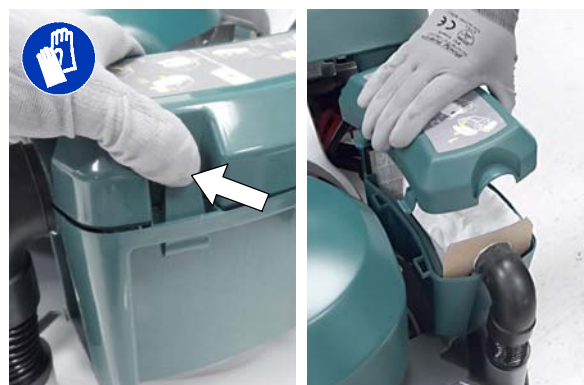


FIG. 11

3. Install dust bag and HEPA filter as shown. Replace cover (Figure 12). The HEPA filter is included with the Active Dust Collection model.

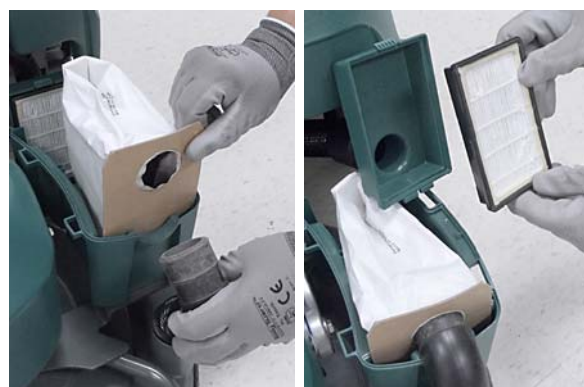


FIG. 12



## OPERATION

4. The check dust bag indicator will periodically light up on the control console alerting operator to check bag for fullness. Replace the bag when it becomes half full (Figure 13). Restart the key to reset the check bag indicator.

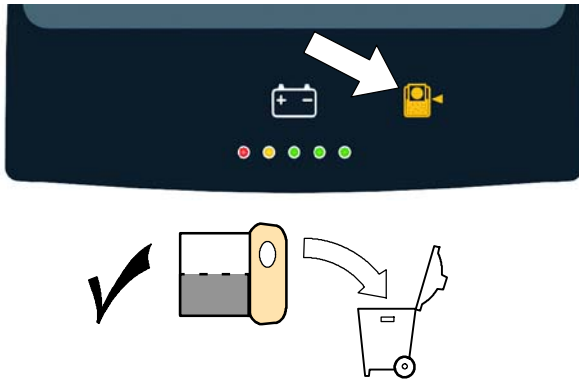


FIG. 13

5. The HEPA filter requires to be replaced every 200 hours of use (Figure 14).



FIG. 14

## MACHINE OPERATION

**FOR SAFETY: Do not operate machine unless operator manual is read and understood.**

### PRE- OPERATION

- ☐ Sweep floor and remove any obstructions.
- ☐ Scrub floor from any soil buildup.
- ☐ Check that the floor surface is dry.  
Do not use machine with spray buffing solution.
- ☐ Check battery discharge level indicator.
- ☐ Select proper burnishing pad.
- ☐ Check condition of burnishing pad.
- ☐ Check dust collection bag for fullness.
- ☐ Check vacuum hose connection at bag compartment.
- ☐ Check machine for proper operation.

### OPERATING THE MACHINE

1. Lower the burnishing head to the floor by releasing the burnishing head lift pedal as shown (Figure 15).



FIG. 15

2. Release the parking brake lever if equipped (Figure 16)
3. Turn the key to the on ( I ) position (Figure 16).

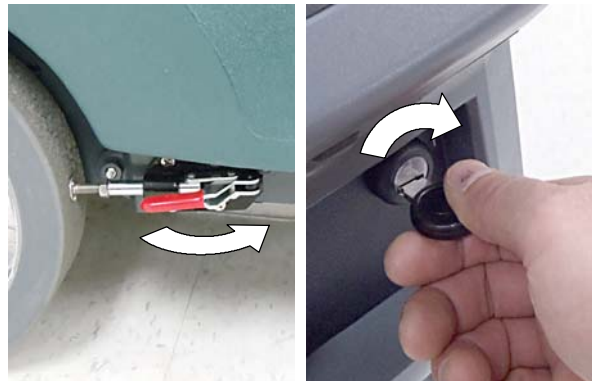


FIG. 16

4. For drive models, push the directional lever to the forward position (Figure 16). To reverse machine pull the directional lever backwards. The burnishing head will lift off the floor when reversing machine.



FIG. 17

5. To begin burnishing, pull the start bail (Figure 18). The burnishing head will draw to the floor by suction.



**FIG. 18**

6. For push models, slowly push the machine forward. The rotating brush will help assist the machine forward.

For drive models, adjust the burnishing speed by turning the speed dial to the desired speed (Figure 19).



**FIG. 19**

7. For models equipped with automated down pressure, adjust the pad pressure to the desired setting by pressing the increase or decrease pad pressure buttons (Figure 20). For optimal performance set the pad pressure indicator to the center LED setting.



**FIG. 20**

For models equipped with mechanical pad pressure, the pad pressure setting is factory set for optimal performance. To confirm the pad pressure is properly set for your burnishing application, see **PAD PRESSURE SETTING** in the **MACHINE SETUP** section.

8. To stop burnishing, release the start bail (Figure 21). The drive model has an electromagnetic brake system that will automatically stop the machine when the bail is released.



**FIG. 21**

9. To transport the machine from one location to another, raise the burnishing head to the transport position (Figure 22).



**FIG. 22**



### EMERGENCY SHUT-OFF BUTTON (Drive Models)

Push the emergency shut-off button in the event of an emergency (Figure 23). This red button shuts off all power to machine. To regain power, turn the button clockwise and restart the key.

Only use this button in the event of an emergency. It is not intended for routine machine shutdown.



FIG. 23

### CONTROL CONSOLE ALERT SYMBOLS

The following control console alert symbols will light up and begin to flash as described below.



**1** - Service Indicator - Machine or battery charger fault detected. See **SERVICE INDICATOR CODES**.

**2** - Pad Motor Overheat Indicator - Motor temperature is too high. Turn machine off and allow pad motor to cool down. The fault will clear once motor has cooled. Likely cause, pad pressure is set too high or wrong pad type. Reduce pad pressure or change pad type.

**3** - Check Dust Bag Indicator - Reminder to check dust bag for fullness. Replace bag when half full. Recycle key to reset indicator.

### WHILE OPERATING THE MACHINE

1. Operate the machine in a straight path where possible and overlap the burnishing path by a few inches/centimeters.
2. Reduce the machine speed when making sharp turns.
3. Do not use machine with spray buffing solution.
4. Avoid any floor fixtures or uneven floor transitions that may damage the pad, pad driver or dust skirt.
5. Avoid bumping the machine into posts and walls.
6. Do not operate machine on inclines that exceed a 9% grade or a 19.5% grade when transporting.
7. Drive Models: For heavily scuffed floors reduce the speed and increase the pad pressure to ensure optimum burnishing performance.
8. Periodically check the pad condition. If loaded with floor finish or soil buildup turn the pad over or replace pad as needed.
9. Check dust bag when the check bag indicator appears. Replace bag when half full.
10. Check condition of dust control skirt. Dry chunks of floor finish may become lodged in skirt leaving streaks on floor.
11. Observe the battery charge level indicator. See **BATTERY CHARGE LEVEL INDICATOR**.
12. If the drive model becomes disabled, it can be pushed or towed slowly for a short period.
13. When leaving machine unattended, turn machine off and remove key.
14. After burnishing, perform the machine maintenance procedures. See **MACHINE MAINTENANCE**.

## BATTERY DISCHARGE INDICATOR

The battery discharge indicator (BDI) displays the charge level of the batteries. When the batteries are fully charged, all five indicator lights will be on (Figure 24). As the batteries discharge, the indicator lights will begin to go out from right to left.

When the discharge level reaches the red light, stop burnishing and recharge the batteries. If the red light begins to flash, the burnishing function will automatically shut off to protect the batteries from total discharge. Drive Model: The machine will still propel when red light is flashing. Propel machine to charging station and recharge batteries.



FIG. 24

The machine's battery discharge indicator is programmed for the battery type supplied with your machine. If you choose to change to a different battery type or battery capacity (i.e. wet/lead acid, sealed, AGM batteries, etc.) you will need to have the BDI reprogrammed to prevent battery damage. See *CHARGING BATTERIES*.

## OUR METER

The hour meter records the number of hours the machine is in operation. Use the hour meter to perform specific maintenance procedures and to record service history. The hour meter is located on the control console (Figure 25).



FIG. 25

## CIRCUIT BREAKERS / FUSE

The machine is equipped with three resettable circuit breakers to protect the machine from a current overload. If a breaker should trip, determine the cause then reset the circuit breaker. If circuit breaker does not reset or continues to trip contact trained personnel.

The circuit breakers are located near the battery compartment and identified as described below (Figure 26).

CIRCUIT BREAKERS:

- 1 (2.5A) Control Board
- 2 (15A) Actuator/Active Dust Control
- 3 (30A) Main/Propel/Pad Drive

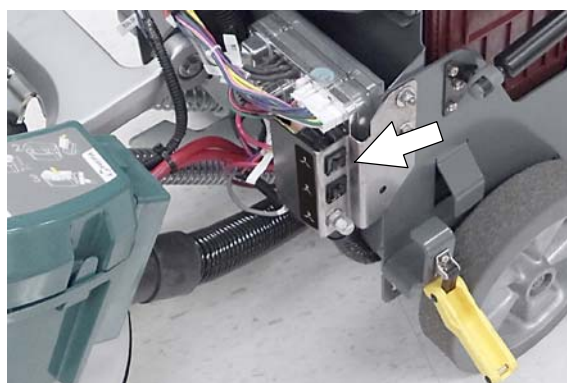


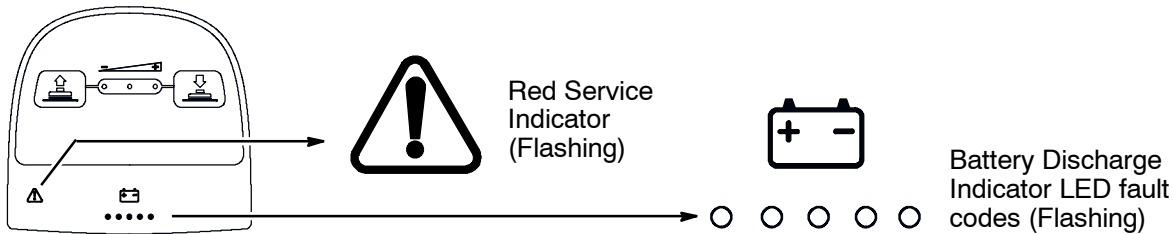
FIG. 26

**FOR SAFETY: When servicing machine, all repairs must be performed by trained personnel.**

## OPERATION

### SERVICE INDICATOR CODES

When the machine or battery charger detects a fault or warning, the red service indicator and a specific battery discharge indicator LED code will flash continuously. Refer to following LED codes to determine fault.



LED Fault Codes: ○ = Flashing	CAUSE	SOLUTION
○ ○ ○ ○ ○	Emergency stop button activated.	Turn emergency stop button counter-clockwise to reset and restart machine.
● ● ● ○ ○	Pad motor wiring, connector or control board problem.	Contact service.
○ ● ● ● ●	Pad motor voltage loss.	Contact service.
○ ● ● ○ ○	Pad motor current is above hardware limit.	Restart machine. If fault code persists, contact service.
○ ● ○ ● ●	Pad motor current too high for extended period. Pad down pressure too high.	Reduce down pressure. If fault code persists, contact service.
○ ○ ○ ● ○	Pad motor shorted current load.	Contact service.
○ ● ○ ○ ●	Pad motor and control board problem.	Contact service.
● ● ● ○ ●	Head actuator wiring, connector or control board problem.	Contact service.
● ○ ● ● ○	Burnish over current.	Contact service.
● ● ○ ● ○	Head actuator circuit breaker tripped.	Turn machine off and reset circuit breaker. If breaker trip repeats, contact service.
○ ○ ● ○ ○	Head actuator movement is obstructed.	Restart machine to clear code. If fault code persists, contact service.
○ ○ ○ ○ ●	Head actuator or vacuum motor and control board problem.	Contact service.
● ● ○ ● ●	Vacuum motor wiring, connector or control board problem	Contact service.
● ● ○ ● ○	Vacuum motor circuit breaker tripped.	Turn machine off and reset circuit breaker. If breaker trip repeats, contact service.
○ ● ○ ○ ○	Vacuum motor current is above hardware limit.	Restart machine. If fault code persists, contact service.
○ ○ ● ● ●	Vacuum motor current too high for extended period (current 1 fault).	Restart machine. If fault code persists, contact service.
○ ○ ● ● ○	Vacuum motor current too high for extended period (current 2 fault).	Restart machine. If fault code persists, contact service.
○ ○ ● ○ ●	Vacuum motor shorted current load.	Contact service.
○ ● ● ● ○	Propel control board communication problem.	Contact service.
● ● ○ ○ ○	Propel wiring, connector or control board problem.	Contact service.
○ ● ○ ● ○	Start bail is pulled before turning machine on.	Release start bail before turning machine on.

**SERVICE INDICATOR CODES - Continued**

LED Fault Code: ○= Flashing	CAUSE	SOLUTION
○ ● ● ○ ●	Propel motor short.	Contact service.
● ● ○ ○ ●	Propel circuit breaker tripped.	Turn machine off and reset circuit breaker. If breaker trip repeats, contact service.
● ○ ● ○ ○	Software load failure.	Contact service.

**On- Board Battery Charger Service Indicator codes:**

LED Fault Code: ○= Flashing	CAUSE	SOLUTION
○ ○ ○ ● ●	Charger error condition.	Contact service.
● ○ ○ ● ●	Charger is not connected to battery pack.	Check cable connections.
● ○ ● ● ●	Charger overheated.	Let charger cool or move to well ventilated area. If fault persists, contact service.
● ○ ○ ○ ●	Charger not communicating with machine.	Restart charger. If fault code persists, contact service.
● ○ ○ ● ○	Charger timer exceeded maximum charging time. Interrupts charging cycle.	Replace Batteries.

### CHARGING BATTERIES

The lifetime of the batteries is limited to number of charges the batteries receive. To get the most life from the batteries, recharge them when the battery discharge indicator reaches the red light.

*NOTE: To prolong the battery life do not leave batteries discharged for lengthy periods.*

The charging instructions in this manual are intended for the battery charger supplied with your machine. The use of other battery chargers that are not supplied and approved by Tennant are prohibited. If your machine is equipped with an off-board battery charger refer to the charger's owners manual for operating instructions. Contact distributor or Tennant for battery charger recommendations if machine is not equipped with charger.

**FOR SAFETY: The use of incompatible battery chargers may damage battery packs and potentially cause a fire hazard.**

If the on-board battery charger detects a problem while in use, the machine will display a service code. See *SERVICE INDICATOR CODES*. For off-board battery charger error codes refer the to manual supplied with charger.

#### Battery Charger Specifications:

- CHARGER TYPE:
  - For wet (Lead acid) Batteries
  - For Sealed (AGM) Batteries
- OUTPUT VOLTAGE - 36 VOLTS
- OUTPUT CURRENT - 25 AMPS
- AUTOMATIC SHUTOFF CIRCUIT
- FOR DEEP CYCLE BATTERY CHARGING

**IMPORTANT NOTICE:** The battery charger is set to charge the battery type supplied with your machine. If you choose to change to a different battery type or capacity (i.e. wet/lead acid, sealed, AGM batteries, etc.), the battery charger and the machine's battery discharge indicator (BDI) must be reprogrammed to prevent battery damage. See BATTERY CHARGER SETTINGS.

### CHARGING BATTERIES

1. Transport the machine to a well-ventilated area.

**⚠ WARNING: Fire Or Explosion Hazard.**  
**Batteries emit hydrogen gas. Explosion or fire can result. Keep sparks and open flame away when charging.**

2. Park the machine on a flat, dry surface, turn off machine and remove key.
3. If the machine is equipped with wet/lead acid batteries check the battery electrolyte level before charging (Figure 27). The level should slightly cover the battery plates as shown. Add distilled water if low. DO NOT OVERFILL. The electrolyte will expand and may overflow when charging.

Check the electrolyte level weekly.

If the machine is equipped with the HydroLINK battery watering system do not add water before charging batteries (See *HydroLINK Battery Watering System*)

**FOR SAFETY: When servicing batteries, wear personal protection equipment as needed. Avoid contact with battery acid.**

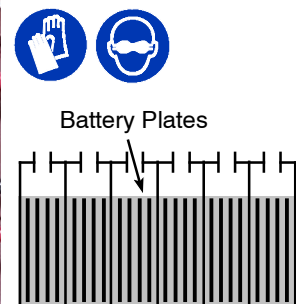


FIG. 27

4. For models equipped with on-board chargers, remove the charger's power cord from the storage hooks and plug power cord into a properly grounded wall outlet (Figure 28).



FIG. 28



For models equipped with off-board chargers, first connect the charger's DC cord into the machine's battery charge receptacle then plug the AC power supply cord into a properly grounded wall outlet (Figure 29). Refer to the off-board battery charger's owner manual for operating instructions.

**FOR SAFETY: Do not disconnect the off-board charger's DC cord from the machine's receptacle when the charger is operating. Arcing may result. If the charger must be interrupted during charging, disconnect the AC power supply cord first.**



FIG. 29

5. The charger will automatically begin charging and shut off when fully charged. The maximum charging cycle may take up to 6-10 hours depending on battery type.

On-board battery charger: When all five battery discharge indicator lights are flashing, the charging cycle is complete (Figure 30).

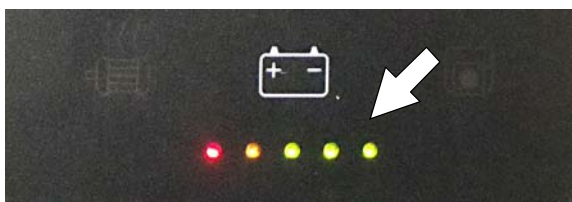


FIG. 30

6. After charging batteries unplug the power supply cord and wrap cord around the cord hooks (Figure 31).

For models equipped with an off-board charger, always disconnect the AC power supply cord first before disconnecting charger from machine.



FIG. 31

## BATTERY CHARGER SETTINGS

The battery charger is set to charge the battery type supplied with your machine. If you choose to change to a different battery type or capacity, the battery charger and the machine's battery discharge indicator (BDI) must be reprogrammed to prevent battery damage.

To have machine reprogrammed, contact service or order the Software Installation Kit (p/n 9012788).

For models equipped with the on-board charger, as an alternative to having the machine reprogrammed, the on-board battery charger settings can be manually changed. Once the on-board charger settings are properly changed as described in the following instructions, the machine's software will automatically reprogram the BDI to the new battery type.

For machine's equipped with an off-board battery charger, the Reprogramming Kit is required to change the BDI setting. After the BDI is reprogrammed, refer to the off-board charger's owner manual to change charging profile settings.

### To Change the On-Board Battery Charger Settings:

1. Unwrap the battery charger power cord from the cord hooks.
2. Using a T25 star screwdriver, remove the two screws located at the bottom of the control console to access battery charger (Figure 32).

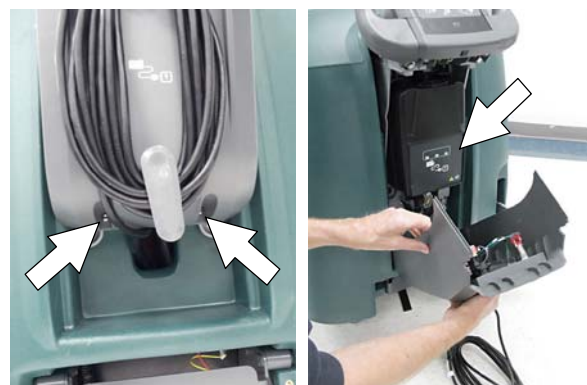


FIG. 32

3. Carefully peel up the charger display label to access the dial settings (Figure 33).

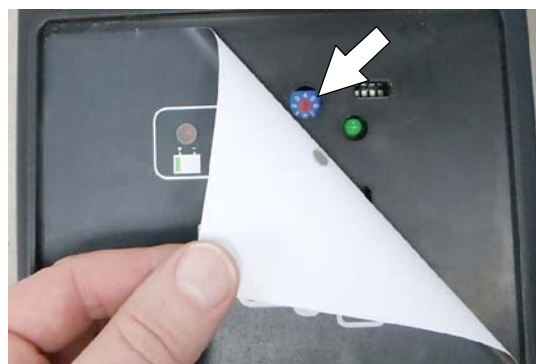


FIG. 33

## OPERATION

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- Using a small standard screwdriver, turn the dial to the appropriate battery type according to the following chart (Figure 34).

**NOTE:** The "0" position is only used when machine is programmed at the factory or when the Software Installation kit is used. Once the setting is changed from "0", it should not be changed back to "0" unless machine is reprogrammed with the software installation kit otherwise battery damage may result.

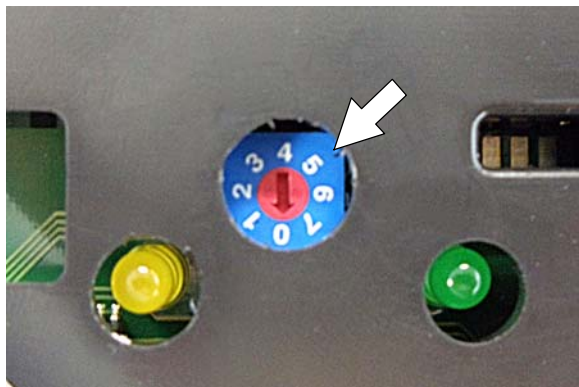
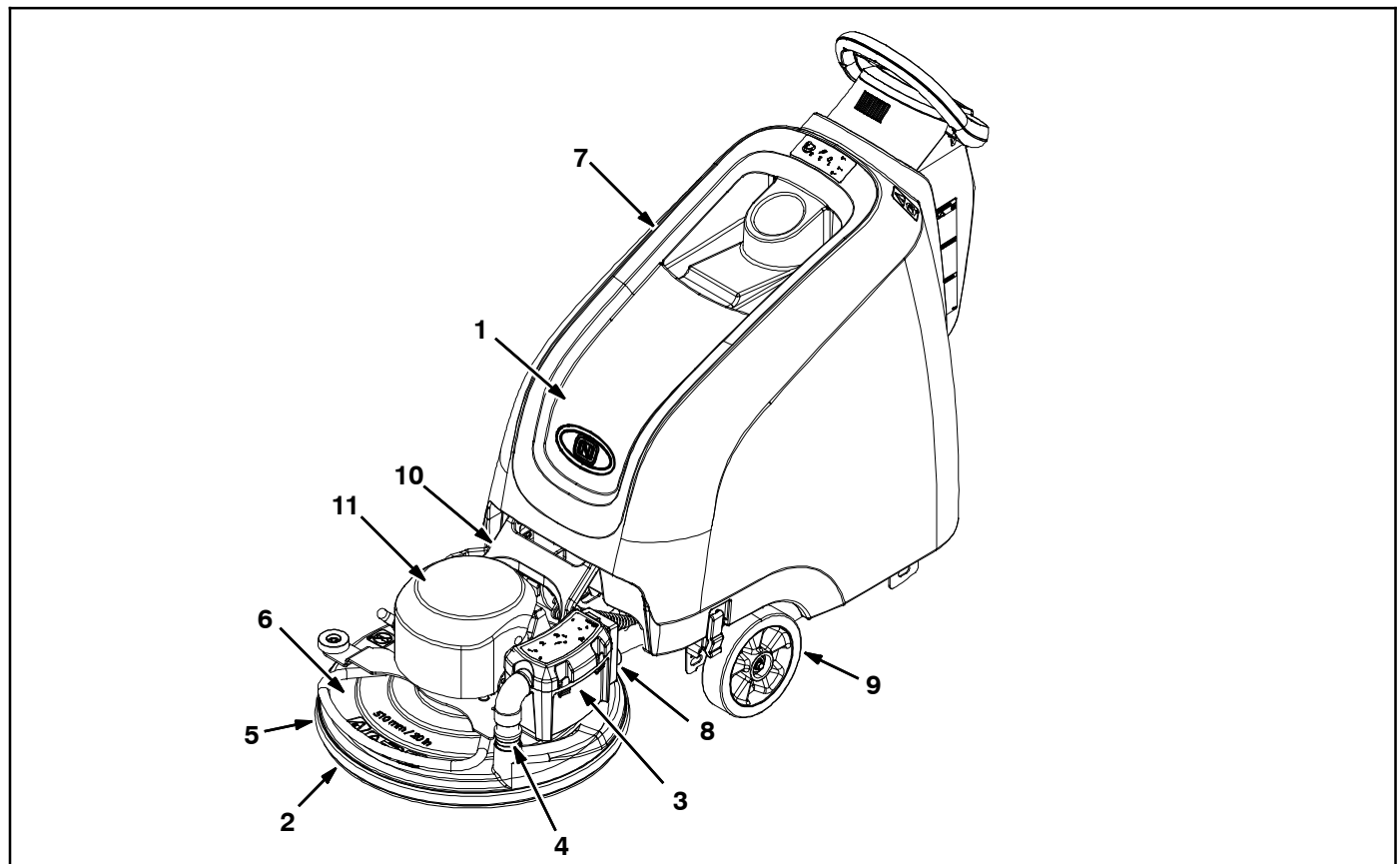


FIG. 34

Dial Position	Battery Description Settings
0	Factory and Software Kit Setting
1	Wet, Trojan 180- 250 AH
2	Wet, Trojan 260- 360 AH
3	Wet, EnerSys 200- 350 AH
4	AGM, Discover 200- 300 AH
5	AGM, Fullriver 200- 350 AH
6	Gel, Sonnenschein 150- 250 AH

- Re-apply the display label.
- Replace the control console.
- To set the BDI to the new battery type, plug the on-board battery charger cord into an electrical outlet.

# MAINTENANCE CHART



Interval/ Hours	Person Resp.	Key	Description	Procedure
Daily	O	1	Batteries	Charge
	O	2	Burnishing pad	Check, flip or replace
	O	3	Dust collection bag	Check, replace
	O	4	Vacuum hose	Check, clean
	O	5	Burnishing head dust skirt	Check for dry floor finish chunks
Weekly	O	1	Battery electrolyte level	Check, add distilled water if low
50 Hours	O	5	Burnishing head dust skirt	Check for wear and damage
	O	6	Burnishing head	Clean with air pressure hose
	O	7	Machine	Clean with damp cloth
100 Hours	O	1	HydroLINK Battery watering system (option)	Check hoses and connections for damage and wear
200 Hours	O	1	Batteries, terminals and cables	Check and clean
	O	8	Vacuum HEPA filter (Active Dust Control Model)	Check, clean, replace
750 Hours	T	9	Propel motor (Drive Model)	Replace carbon brushes
1000 Hours	T	10	Head lift bushings, 4 points	Inspect, replace bushings
	T	11	Pad motor	Replace carbon brushes

O = Operator T = Trained Personnel

## MACHINE MAINTENANCE

To keep the machine in good working condition, simply perform the following maintenance procedures.

**FOR SAFETY: Before leaving or servicing machine, stop on level surface, turn off machine, remove key and set parking brake if equipped.**

**FOR SAFETY: When servicing machine wear personal protection equipment as needed. All repairs must be performed by trained personnel**

### AFTER DAILY USE

1. Flip the burnishing pad over or change to a new pad (Figure 35).



FIG. 35

2. Check the dust collection bag for fullness. Replace bag when half full (Figure 36).

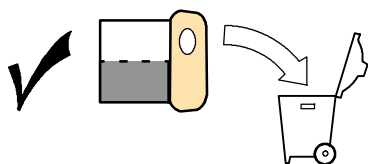


FIG. 36

3. Check vacuum hose for clogging. Clean hose as necessary (Figure 37).



FIG. 37

4. Charge batteries (Figure 38). See *CHARGING BATTERIES*.



ON- BOARD CHARGER



OFF- BOARD CHARGER

FIG. 38

### AFTER WEEKLY USE

Check the electrolyte level in all batteries (Figure 39). See *BATTERY MAINTENANCE*.



FIG. 39



## AFTER EVERY 50 HOURS OF USE

1. Check the dust skirt for wear or damage (Figure 40). Replace if worn or damaged.



FIG. 40

2. Clean the burnishing head and pad motor of any dust buildup using an air pressure hose (Figure 41). Maximum air pressure 100 psi / 690 kPa.

**FOR SAFETY: When servicing machine, wear appropriate personal protection equipment as needed**

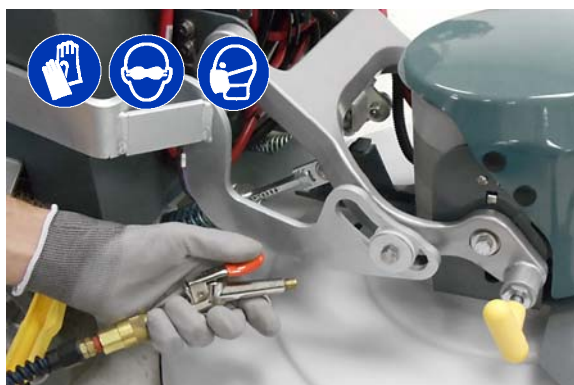


FIG. 41

3. Clean the outside surface of the machine with an all purpose cleaner and damp cloth (Figure 42).



FIG. 42

## AFTER EVERY 100 HOURS OF USE

If machine is equipped with the optional HydroLINK battery watering system, check the watering hoses and connections for damage and wear (Figure 43). Replace system if damaged.

**FOR SAFETY: When servicing batteries, wear personal protection equipment as needed. Avoid contact with battery acid.**



FIG. 43

## AFTER EVERY 200 HOURS OF USE

1. Clean batteries and check for loose battery cable connections (See BATTERY MAINTENANCE).
2. Replace the HEPA filter if model is equipped with the active dust control collection option (Figure 44).



FIG. 44



## MAINTENANCE

### AFTER EVERY 1000 HOURS OF USE

Inspect the four bushings at the head lift bracket assembly for wear (Figure 45). If you experience head bounce or vibration, have the bushings replaced.



FIG. 45

### MOTOR MAINTENANCE

Replace motor carbon brushes as indicated. Contact trained personnel for carbon brush replacement.

Carbon Brush Replacement	Hours
Propel Motor (Drive Model)	750
Pad Motor	1000

### BATTERY MAINTENANCE

**FOR SAFETY: Before servicing machine, stop on level surface, turn off machine, remove key and set parking brake if equipped.**

The lifetime of the batteries is limited to the number of charges the batteries receive. To get the most life from the batteries, only recharge the batteries when the battery discharge indicator begins to flash. It is also important to maintain the proper electrolyte levels during the life of the battery.

Your machine is equipped with either wet/lead- acid or sealed AGM batteries supplied by Tennant.

**FOR SAFETY: When servicing machine, wear personal protection equipment as needed. Avoid contact with battery acid.**

**FOR SAFETY: When servicing machine, keep all metal objects off batteries.**

### SEALED AGM BATTERIES

The sealed AGM batteries are maintenance free and do not require any attention other than routine charging as described in this manual.

### WET/LEAD- ACID BATTERIES

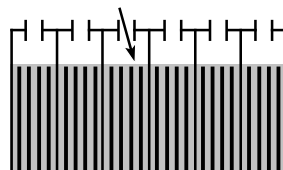
The wet/lead- acid batteries require routine maintenance as described below.

*NOTE: If your machine is equipped with the HydroLINK battery watering system option, see HYDROLINK BATTERY WATER SYTEM.*

Check the battery electrolyte level weekly. The electrolyte level should be slightly above the battery plates as shown (Figure 46). Add distilled water if low. **DO NOT OVERFILL.** The electrolyte will expand and may overflow when charging.



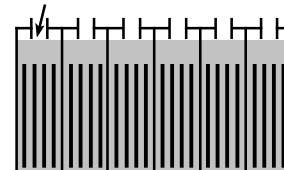
Before Charging



The level should be slightly above the battery plates



After Charging



The level should be slightly below the sight tubes

FIG. 46

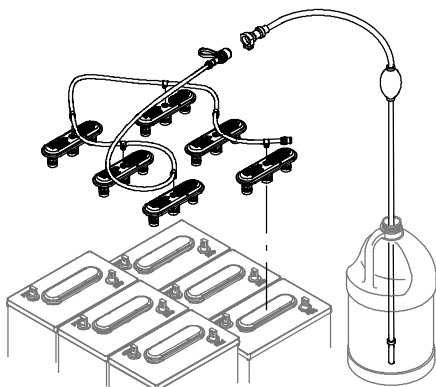
After every 200 hours of use, check for loose battery connections and clean the surface of the batteries, including terminals and cable clamps to prevent battery corrosion. Use a scrub brush with a strong mixture of baking soda and water (Figure 47). Do not remove battery caps when cleaning batteries.



FIG. 47

## HYDROLINK® BATTERY WATERING SYSTEM (OPTION)

The following instructions are for models equipped with the HydroLINK battery watering system option.



The optional HydroLINK battery watering system provides a safe and easy way to maintain the proper electrolyte levels in your batteries.

This battery watering system is also offered as an aftermarket kit (p/n 9010301). It is designed exclusively for Trojan® wet/lead-acid batteries.

**FOR SAFETY: When servicing machine, wear personal protection equipment as needed. Avoid contact with battery acid.**

Before using the battery watering system check hoses and connections for damage or wear.

1. Fully charge batteries prior to using the battery watering system. Do not add water to batteries before charging, the electrolyte level will expand and may overflow when charging.
2. After charging batteries, check the battery electrolyte level indicators located on the battery covers (Figure 48). If the level indicator is white add water as described in the following instructions. If the level indicators are black the electrolyte is at the correct level, no water is required.



FIG. 48

3. Locate the battery fill hose coupler inside the battery compartment. Remove the dust cap and connect the hand pump hose (Figure 49).

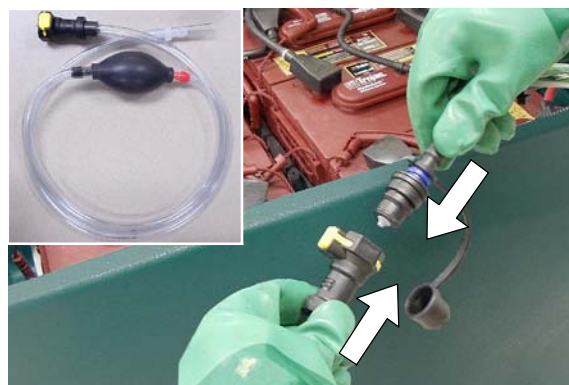


FIG. 49

4. Submerge the other end of the hand pump hose into a bottle of distilled water (Figure 50).



FIG. 50

5. Squeeze the bulb on the hand pump hose until firm (Figure 51). The level indicators will turn black when full.

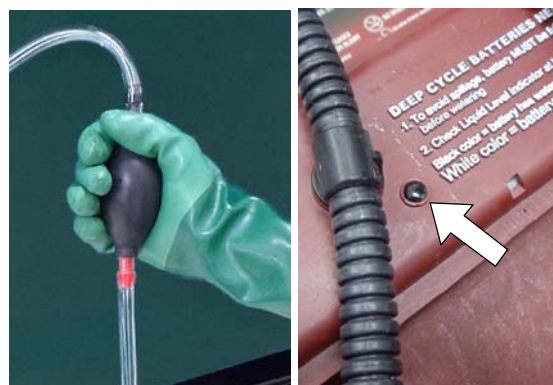


FIG. 51

6. After adding water, replace the dust cap on the battery fill hose and store the hand pump hose inside the machine's battery compartment for future use.

### MACHINE JACKING

**FOR SAFETY: Before leaving or servicing machine, stop on level surface, turn off machine and remove key.**

Use the designated jacking locations for jacking up the machine (Figure 52). Use a jack capable of supporting the weight of the machine. Position the machine on a flat, level surface and block the tires before jacking.

**FOR SAFETY: When servicing machine, jack machine up at designated locations only. Use jack or hoist that will support machine weight. Block machine up with jack stands.**

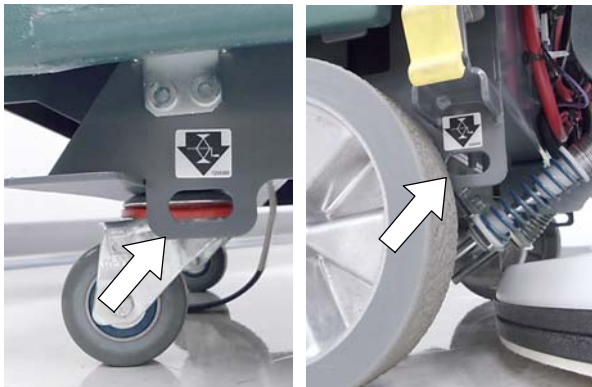


FIG. 52

### LOADING/UNLOADING MACHINE FOR TRANSPORTING

When transporting the machine by use of trailer or truck, carefully follow the loading and tie-down procedure:

1. Raise the burnishing head to the transport position to prevent potential head damage when ramp loading machine on truck or trailer (Figure 53).

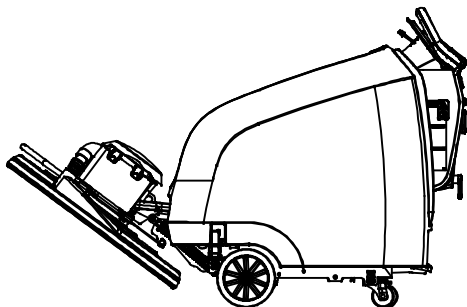
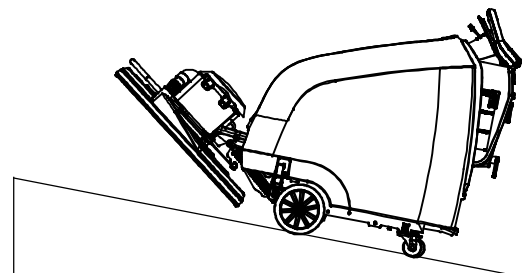


FIG. 53

2. Use a ramp that can support the machine weight and operator and carefully load machine. Do not operate the machine on a ramp incline that exceeds a 19.5% grade level (Figure 54). A winch must be used when ramp incline exceeds a 19.5% grade level.

**FOR SAFETY: When loading/unloading machine onto/off truck or trailer, use a ramp that can support the machine weight and operator.**

**Do not operate the machine on a ramp incline that exceeds a 19.5% grade level. Use tie-down straps to secure machine to truck or trailer.**



19.5% maximum ramp grade

FIG. 54

3. Once loaded, position the front of the machine up against the front of the trailer or truck. Lower the burnishing head to the floor and turn the key off (Figure 55).
4. Place a block behind each wheel (Figure 55).
5. Using tie-down straps, secure the front and rear of the machine using the four tie-down brackets located on the machine frame (Figure 55). It may be necessary to install tie-down brackets to the floor of your trailer or truck. Do not use the burnishing head lift pedal as a tie down.

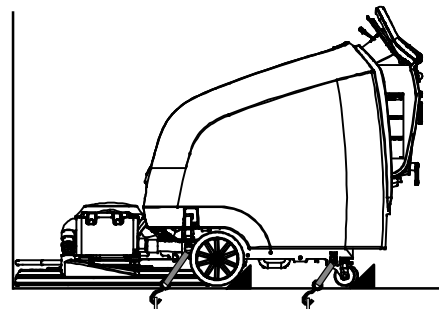


FIG. 55

6. When unloading machine, carefully back the machine down the ramp. Do not unload machine going in the forward direction.

## STORING MACHINE

The following steps should be taken when storing the machine for extended periods of time.

1. Charge the batteries before storing machine to prolong the life of the batteries. Recharge batteries every 3 months.
2. Raise the burnishing head off the floor.
3. Park the machine in a cool, dry area.
4. Turn machine off and remove key.

*NOTE: To prevent potential machine damage store machine in a rodent and insect free environment.*

**⚠ WARNING: To Reduce the Risk of Fire, Explosion, Electric Shock or Injury do not expose the machine to rain, store indoors.**

5. For storage areas with limited space, raise the head as shown (Figure 56).

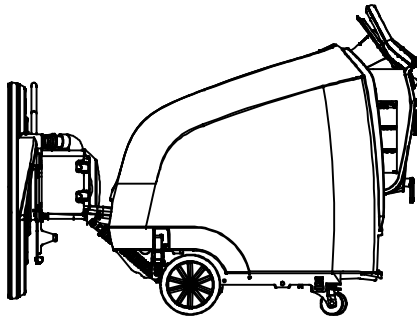


FIG. 56

## TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
Service indicator symbol is flashing.	Machine or on-board battery charger fault has been detected	See SERVICE INDICATOR CODES in manual
No power	Emergency stop button activated	Turn button to reset
	Batteries discharged	Recharge batteries
	Loose or disconnected battery cable	Secure battery cable connections
	Circuit breaker tripped	Reset circuit breaker
	Faulty key switch	Contact Service Center
Machine does not propel (Drive Model)	Propel fault has been detected.	See SERVICE INDICATOR CODES in manual
	Circuit breaker tripped	Reset circuit breaker
	Faulty propel motor or wiring	Contact Service Center
	Worn carbon brushes in motor	Contact Service Center
Pad motor does not operate	Low voltage interrupter activated	Recharge batteries
	Pad motor fault has been detected.	See SERVICE INDICATOR CODES in manual
	Faulty pad motor or wiring	Contact Service Center
	Worn carbon brushes in motor	Contact Service Center
Vacuum motor does not operate (Active Dust Collection Model)	Vacuum motor fault has been detected	See SERVICE INDICATOR CODES in manual
	Faulty vacuum motor or wiring	Contact Service Center
	Circuit breaker tripped on vacuum	Reset circuit breaker button
Push model is not brush assisted	Burnishing head angle not properly adjusted	Contact Service Center
Battery charger will not operate	Batteries over discharged	Replace batteries
	Battery charger fault detected	See SERVICE INDICATOR CODES in manual
	Faulty charger	Replace charger
Poor burnishing performance	Worn pad	Flip or replace pad
	Pad pressure incorrect	Adjust pad pressure
		See Setting Pad Pressure
Short run time	Low battery charge	Charge batteries
	Batteries need maintenance	See BATTERY MAINTENANCE.
	Defective battery or end of battery life	Replace batteries
	Battery discharge indicator (BDI) programmed incorrectly	See CHARGING BATTERIES
	Pad pressure too high	Decrease pad pressure
		See Setting Pad Pressure
	Faulty charger	Replace battery charger



**SPEEDGLEAM 5 GENERAL MACHINE DIMENSIONS/CAPACITIES/PERFORMANCE**

<b>MODEL</b>	<b>(20 in / 510 mm) Push Model</b>	<b>(20 in / 510 mm) Drive Model</b>
Length	59 in / 1499 mm	59 in / 1499 mm
Width	24.5 in / 622 mm	24.5 in / 622 mm
Height	43 in / 1092 mm	43 in / 1092 mm
Weight	193 lb / 87.5 kg	198 lb / 90 kg
Weight with batteries	507 lb / 230 kg	572 lb / 259 kg
Cleaning path width	20 in / 510 mm	20 in / 510 mm
Productivity rate (max.)	16,260 ft <sup>2</sup> /hr / 1,500 m <sup>2</sup> /hr	20,000 ft <sup>2</sup> /hr / 1,900 m <sup>2</sup> /hr
Productivity rate (practical)	13,500 ft <sup>2</sup> /hr / 1,200 m <sup>2</sup> /hr	18,000 ft <sup>2</sup> /hr / 1,670 m <sup>2</sup> /hr
Burnishing speeds (variable)	Pad Assist	Min: 100 fpm / 30 mpm Max: 200 fpm / 60 mpm
Transport speed (max.)	n/a	Fwd: 240 fpm/ 73 mpm Rev: 144 fpm/ 44 mpm
Aisle turn (min.)	60 in / 1524 mm	60 in / 1524 mm
Grade level (max.)	Burnishing: 9%, Transport:19.5%	Burnishing: 9%, Transport:19.5%
Propel motor	n/a	24 V, 14 A, .363 hp / .27 kW , 271 W
Pad motor	36 V, 75 A, 2.8 hp max / 2.1 kW	36 V, 75 A, 2.8 hp max / 2.1 kW
Pad pressure	Variable	Variable
Pad speed	2100 rpm	2100 rpm
Vacuum motor (Active Dust Collection)	36 V, 5 A, 180W / 0.18 kW	36 V, 5 A, 180W / 0.18 kW
HEPA filtration (Active Dust Collection)	99.97% @0.3 micron	99.97% @0.3 micron
Filtration (Passive Dust Collection)	95% @0.3 micron	95% @0.3 micron
Dust bag capacity	1.27 qt / 1.4 L	1.27 qt / 1.4 L
Machine Voltage	36 VDC	36 VDC
Battery capacity	3 - 12V, 185 Ah Wet/lead- acid (std.) 3 - 12V, 225 Ah Wet/lead- acid (opt.) 3 - 12V, 234 Ah AGM (opt.)	3 - 12V, 225 Ah Wet/lead- acid (std.) 3 - 12V, 234 Ah AGM (opt.)
Total power consumption	60 A / 1.9 kw nominal	60 A / 1.9 kw nominal
Battery charger	120 VAC, 60 Hz, 36VDC, 25 A 220/240 VAC, 60 Hz 36 VDC, 25 A	120 VAC, 60 Hz, 36VDC, 25 A 220/240 VAC, 60 Hz 36 VDC, 25 A
Protection grade	IPX3	IPX3
Sound pressure level L <sub>pA</sub> (Active Dust Collection Model)	64 dB(A)	64 dB(A)
Sound pressure level L <sub>pA</sub> (Passive Dust Collection Model)	65 dB(A)	65 dB(A)
Sound Uncertainty K <sub>pA</sub>	3.0 dB(A)	3.0 dB(A)
Sound power level L <sub>WA</sub> + uncertainty K <sub>WA</sub>	xx dB(A)	xx dB(A)
Machine vibration at hand- arm	<2.5 m/s <sup>2</sup>	<2.5 m/s <sup>2</sup>
Machine vibration uncertainty K	0.2 m/s <sup>2</sup>	0.2 m/s <sup>2</sup>
Ambient operating temperature	Min: 32°F/0°C Max: 110°F/43°C	Min: 32°F/0°C Max: 110°F/43°C

Values per EN 60335- 2- 72

Specifications are subject to change without notice.

## SPECIFICATIONS

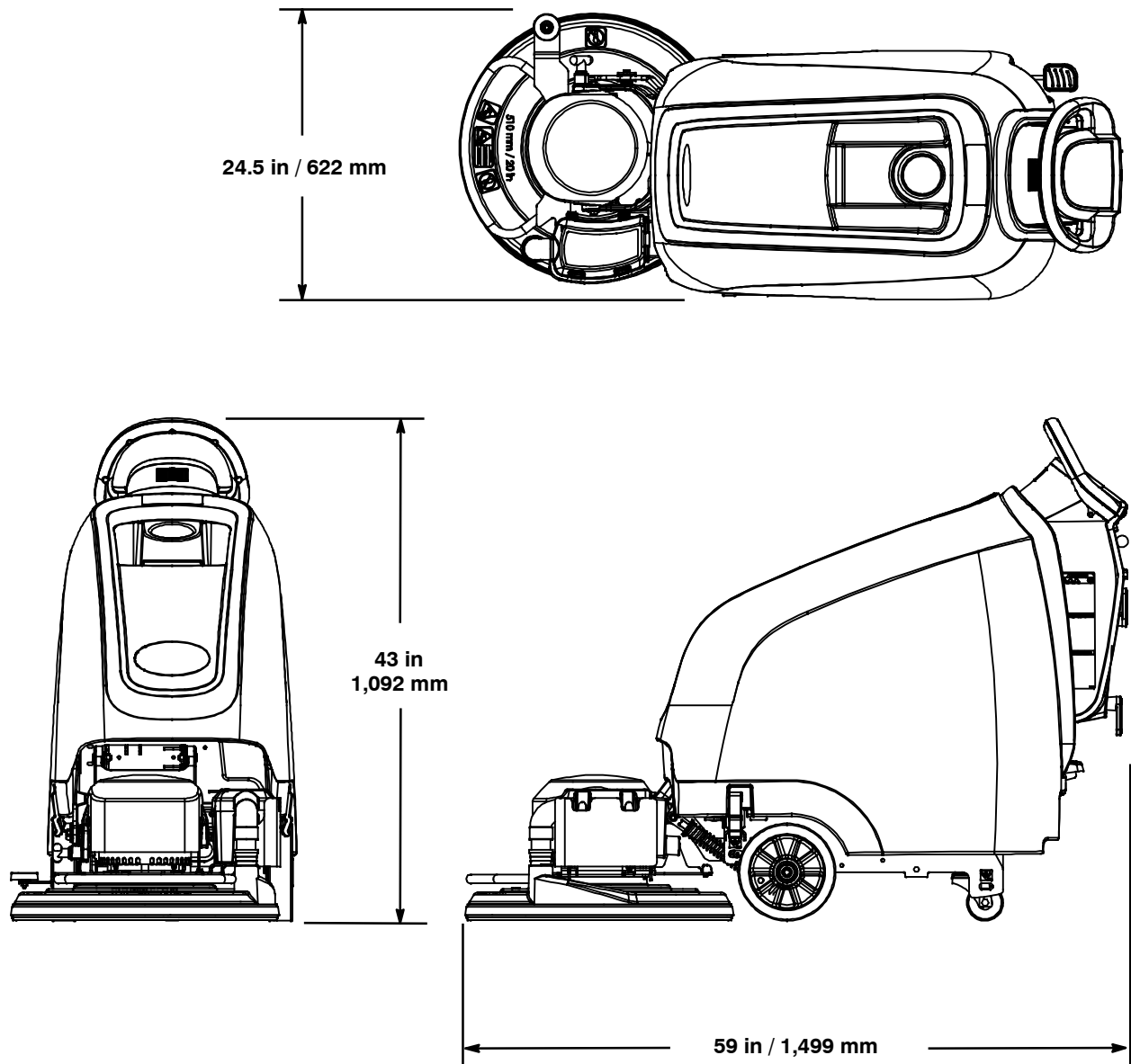
### SPEEDGLEAM 7 GENERAL MACHINE DIMENSIONS/CAPACITIES/PERFORMANCE

MODEL	(24 in / 610 mm) Drive Model	(27 in / 690 mm) Drive Model
Length	61.5 in / 1562 mm	63 in / 1602 mm
Width	30 in / 762 mm	31.5 in / 800 mm
Height	43 in / 1092 mm	43 in / 1092 mm
Weight	246 lb / 111.5 kg	254 lb / 115 kg
Weight with batteries	616 lb / 279 kg	797 lb / 362 kg
Cleaning path width	24 in / 610 mm	27 in / 690 mm
Productivity rate (max.)	24,000 ft <sup>2</sup> /hr / 2,200 m <sup>2</sup> /hr	27,000 ft <sup>2</sup> /hr / 2,500 m <sup>2</sup> /hr
Productivity rate (practical)	22,000 ft <sup>2</sup> /hr / 2,000 m <sup>2</sup> /hr	25,000 ft <sup>2</sup> /hr / 2,300 m <sup>2</sup> /hr
Burnishing speeds (variable)	Min: 100 fpm / 30 mpm Max: 200 fpm / 60 mpm	Min: 100 fpm / 30 mpm Max: 200 fpm / 60 mpm
Transport speed (max.)	Fwd: 240 fpm/ 73 mpm Rev: 144 fpm/ 44 mpm	Fwd: 240 fpm/ 73 mpm Rev: 144 fpm/ 44 mpm
Aisle turn (min.)	62.5 in / 1588 mm	64 in / 1626 mm
Grade level (max.)	Burnishing: 9%, Transport:19.5%	Burnishing: 9%, Transport:19.5%
Propel motor	24 V, 14 A, .363 hp / .27 kW , 271 W	24 V, 14 A, .363 hp / .27 kW , 271 W
Pad motor	37 V, 90 A, 3.6 hp max / 2.6 kW	37 V, 90 A, 3.6 hp max / 2.6 kW
Pad pressure	Variable	Variable
Pad speed	1875 rpm	1875 rpm
Vacuum motor (Active Dust Collection)	36 V, 5 A, 180W / 0.18 kW	36 V, 5 A, 180W / 0.18 kW
HEPA filtration (Active Dust Collection)	99.97% @0.3 micron	99.97% @0.3 micron
Filtration (Passive Dust Collection)	95% @0.3 micron	95% @0.3 micron
Dust bag capacity	1.27 qt / 1.4 L	1.27 qt / 1.4 L
Machine Voltage	36 VDC	36 VDC
Battery capacity	6 - 6V, 240 Ah Wet/lead- acid (std.) 6 - 6V, 312 Ah AGM (opt.) 6 - 6V, 360 Ah Wet/lead- acid (opt.)	6 - 6V, 330 Ah Wet/lead- acid (std.) 6 - 6V, 312 Ah AGM (opt.) 6 - 6V, 360 Ah Wet/lead- acid (opt.)
Total power consumption	75 A / 2.4 kw nominal	75 A / 2.4 kw nominal
Battery charger	120 VAC, 60 Hz, 36VDC, 25 A 220/240 VAC, 60 Hz 36 VDC, 25 A	120 VAC, 60 Hz, 36VDC, 25 A 220/240 VAC, 60 Hz 36 VDC, 25 A
Protection grade	IPX3	IPX3
Sound pressure level L <sub>pA</sub> (Active Dust Collection Model)	63 dB(A)	63 dB(A)
Sound pressure level L <sub>pA</sub> (Passive Dust Collection Model)	65 dB(A)	65 dB(A)
Sound Uncertainty K <sub>pA</sub>	3.0 dB(A)	3.0 dB(A)
Sound power level L <sub>WA</sub> + uncertainty K <sub>WA</sub>	xx dB(A)	xx dB(A)
Machine vibration at hand- arm	<2.5 m/s <sup>2</sup>	<2.5 m/s <sup>2</sup>
Machine vibration uncertainty K	0.2 m/s <sup>2</sup>	0.2 m/s <sup>2</sup>
Ambient operating temperature	Min: 32°F/0°C Max: 110°F/43°C	Min: 32°F/0°C Max: 110°F/43°C

Values per EN 60335- 2- 72

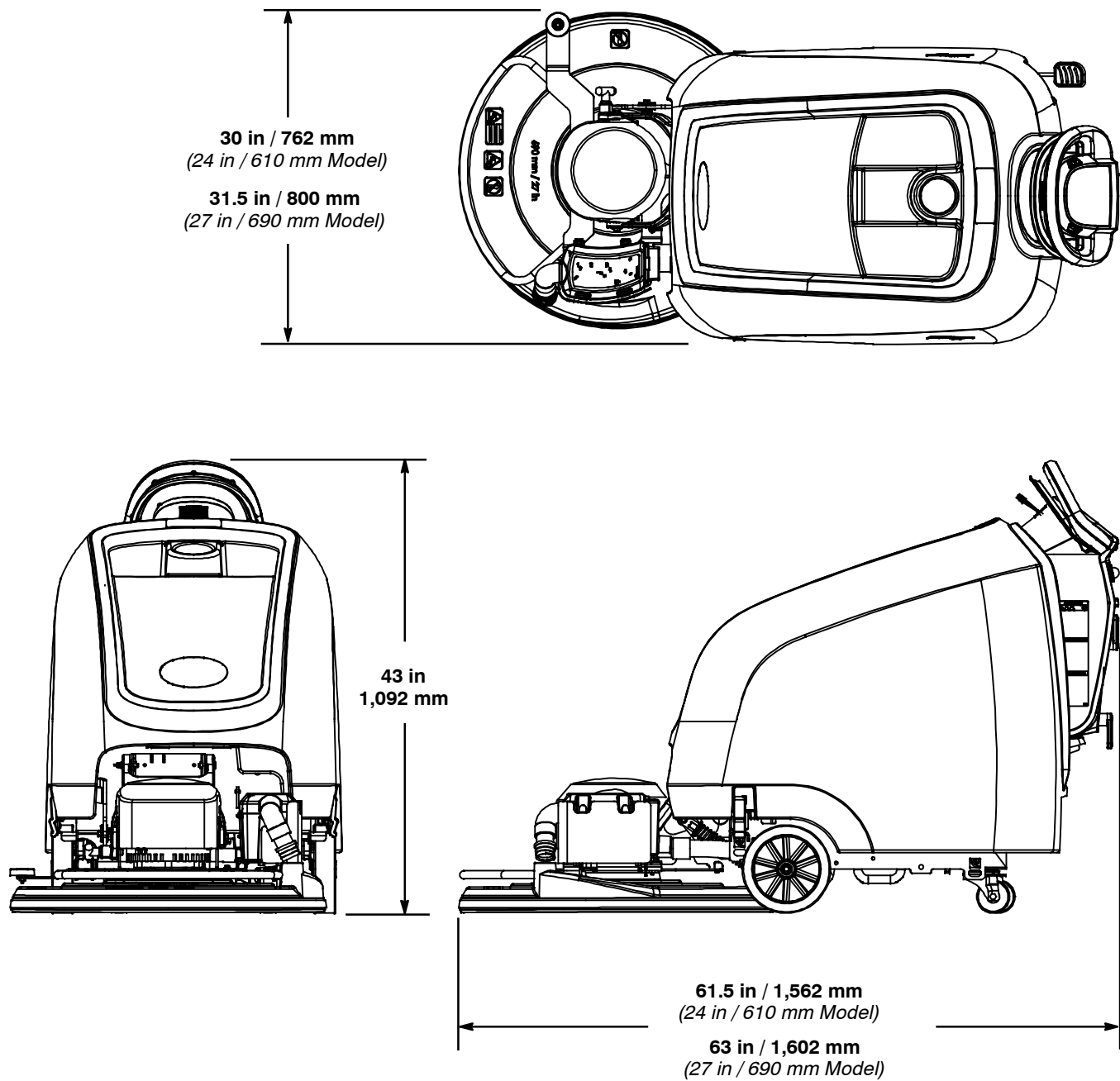
Specifications are subject to change without notice.

SPEEDGLEAM 5 MACHINE DIMENSIONS



SPECIFICATIONS

SPEEDGLEAM 7 MACHINE DIMENSIONS





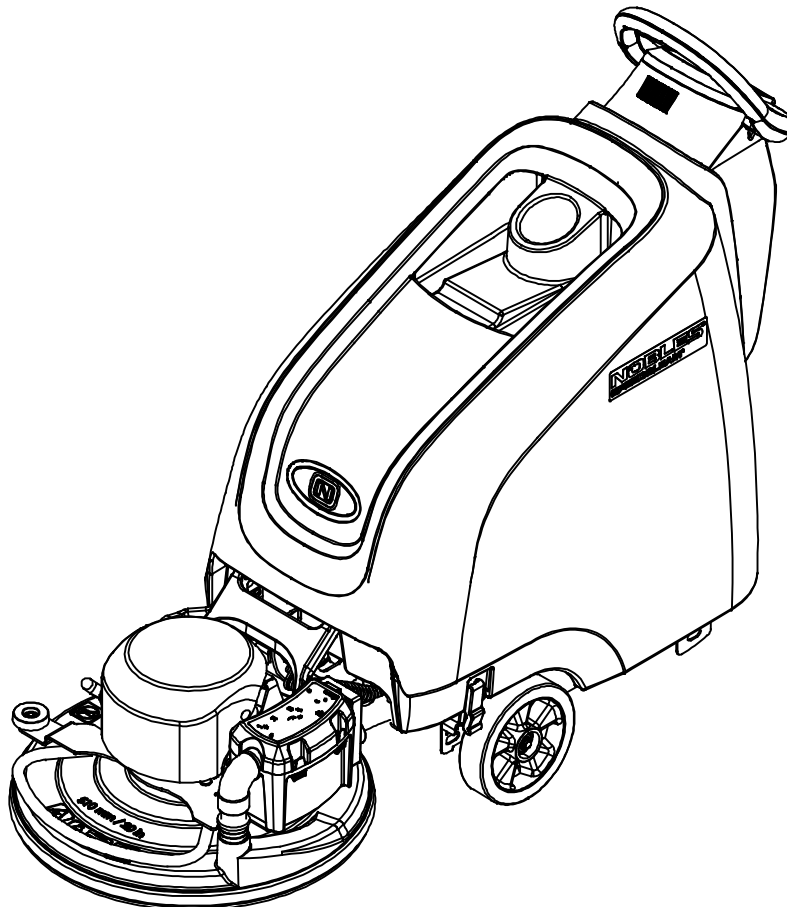
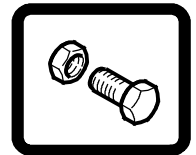


TennantTrue® Parts

# SPEEDGLEAM® 5

WALK-BEHIND BATTERY BURNISHER

## PARTS MANUAL

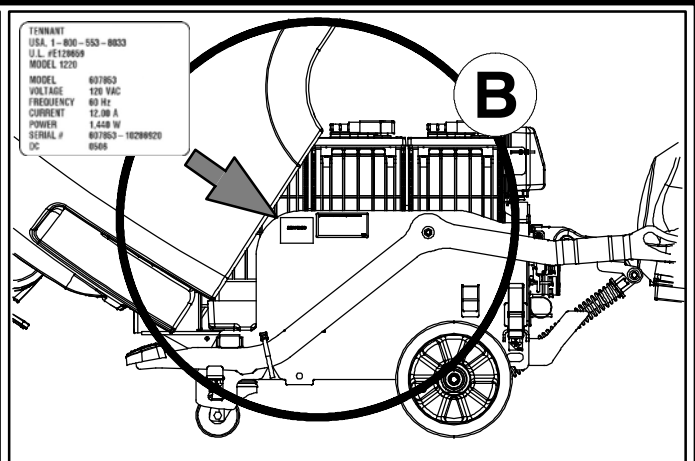
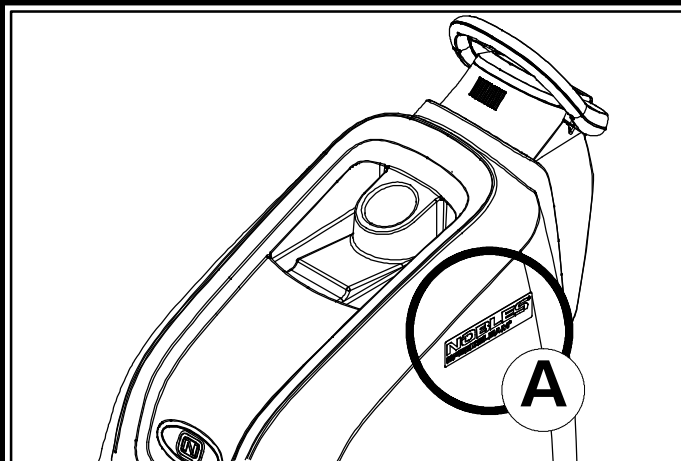


For the latest Parts manuals and other  
language Operator manuals, visit:

[www.nobles.com/manuals](http://www.nobles.com/manuals)

9011614  
Rev. 00 (01-2014)





Ref	Part No.	Serial Number	Description	Qty.
1	82681	(000000- )	Bracket Wldt, Lpg Mount	1
2	63810	(000000- )	Latch Assy, Lpg Tank Mtg, W/Nut	4
3	51839	(000000- )	Nut Adjustable, Lpg Tank Mtg	2
4	49263	(000000- )	Tie, Cable	3
	82556	(000000- 001039)	Bracket, Vaporizer	1
	54930	(000000- )	Vaporizer, LPG	1

#### HOW TO ORDER PARTS - See diagram above

Only use TENNANT Company supplied or equivalent parts. Parts and supplies may be ordered online, by phone, by fax or by mail.

Follow the steps below to ensure prompt delivery.

1. **(A)** Identify the machine model.
2. **(B)** Identify the machine serial number from the data label.
3. **(C)** Ensure the proper serial number is used from the parts list.
4. Identify the part number and quantity.  
Do not order by page or reference numbers.
5. Provide your name, company name, customer ID number, billing and shipping address, phone number and purchase order number.
6. Provide detail shipping instructions.

**(D)** ▽ - identifies an assembly

▲ - identifies parts included in assembly

#### Please fill out at time of installation for future reference.

Model No. - \_\_\_\_\_

Serial No. - \_\_\_\_\_

Machine Options - \_\_\_\_\_

Sales Rep. - \_\_\_\_\_

Sales Rep. phone no. - \_\_\_\_\_

Customer ID Number - \_\_\_\_\_

Installation Date - \_\_\_\_\_

#### Tennant Company

PO Box 1452

Minneapolis, MN 55440

Phone: (800) 553-8033 or (763) 513-2850

www.nobles.com

Specifications and parts are subject to change without notice.

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# GENERAL RECOMMENDED MAINTENANCE

## GENERAL RECOMMENDED MAINTENANCE ITEMS

	Part No.	Serial Number	Description	Qty.
	1207285	(00000000-	) Latch, Draw, Rbr, W/ Keeper, Yellow	2
	1205533	(00000000-	) Damper	1
	1203776	(00000000-	) Cover, Pedal	1
	71579	(00000000-	) Strap, Static, W/Grommet, .19 1.1w 25.0l	1
	9012767	(00000000-	) Caster Kit, Afmkt, W/ Hdwr	1
	1202505	(00000000-	) Wheel, W/ Brg, 213mm (Push Model)	2
	1020688	(00000000-	) Wheel, Scrbr, 213mm, W/ Taper (Drive Model)	2
▽	1206634	(00000000-	) Transaxle, 24vdc [458h- 2100 Asi]	1
▲	1021167	(00000000-	) Key, Woodruff, 5mm	2
▲	612880	(00000000-	) Joint, Transaxle, Replmt	2
▲▽	1212352	(00000000-	) Motor, Transaxle, 24vdc, UI	1
▲▲	1212351	(00000000-	) Brush, Kit, Carbon, Transaxle, UI (1 Pkg = 4 Brushes)	1
▽	1210910	(00000000-	) Motor, Ele, 24- 60vdc 4700rpm 6.89hp	1
▲	1212017	(00000000-	) Brush Assy, Carbon, Afmkt	1
▲	00928	(00000000-	) Key, Sq, 0.25 X 0.25, 1.00l	1
	9012768	(00000000-	) Wheel Kit, Bmpr, Afmkt, W/ Hdwr	1
▽	1210491	(00000000-	) Driver Assy, Pad, 20d	1
▲	32506	(00000000-	) Device, Centering, Rh Pad Retainer	1
▲	1205787	(00000000-	) Collar, Locking, Pad Driver, 6.1"	1
	1208033	(00000000-	) Skirt Assy, Shrd, 20.0d	1
	611788	(00000000-	) Pad, 20.0[Burnish, Hairblend, 1pick=1ctn] (Qty 5 Pads)	1
▽	9012779	(00000000-	) Arm, Lift, Head, Afmkt, W/Bearings	1
▲	9012780	(00000000-	) Bearing Kit, 12mmb 16mmd 12mmw, Qty=4	1
	1203378	(00000000-	) Pin, Spring, .50d 1.00b	1
	1205700	(00000000-	) Actuator, 36vdc, 60mm Strk, 2sw, 350n	1
	1205304	(00000000-	) Spring, Cmpr, 1.378od .177wir 3.95l	1
	1203333	(00000000-	) Spring, Cmpr, 1.314od .145wir 10.85l	1
	607275	(00000000-	) Hose, Vacuum, 1.50id X 040.0l, 2cuff, E90	1
	9012781	(00000000-	) Fan Kit, Vacuum, Afmkt, W/ Gasket	1
	1203349	(00000000-	) Gasket, Vac Motor	1
	1203162	(00000000-	) Filter, Hepa (Active Dust Control)	1
	1204900	(00000000-	) Hose, Assy, 1.50 Id	1
	1210869	(00000000-	) Bag, Dust, Paper[1 Pick=1 Pkg] (1 Pkg = 10 Bags) (Standard)	1
	1208744	(00000000-	) Bag, Dust, Cloth (Optional for Passive Dust Control Only)	1
	1205971	(00000000-	) Gasket, Cover, Circuitboard	1
▽	9012782	(00000000-	) Circuitboard Kit, Bridge, Afmkt, W/Strap	1
▲	1205845	(00000000-	) Circuitboard, Silpad [1/2 Bridge, Lower]	1
	9012783	(00000000-	) Circuitboard Kit, Base, Afmkt, W/ Strap	1
	9012796	(00000000-	) Circuitboard Kit, Option, Afmkt, W/Strap	1
	1210283	(00000000-	) Box, Wire [Ferrite, Emi Filter]	2
	1207893	(00000000-	) Switch, Push, Snap Action, 25a [No]	1
	1064184	(00000000-	) Circuitbreaker, 02.5a, Resetable	1
	1064188	(00000000-	) Circuitbreaker, 15.0a, Resetable	1
	383725	(00000000-	) Circuitbreaker, 30.0a, Resetable	1
▽	9012826	(00000000-	) Controller, Drive, Afmkt, W/ Usb Cable (Drive Model)	1
▲	9012788	(00000000-	) Software Kit, Installation, W/Usb Cable	1
	1205323	(00000000-	) Switch, 0.1a, Spdt [Micro, Straight]	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY



# GENERAL RECOMMENDED MAINTENANCE

## GENERAL RECOMMENDED MAINTENANCE ITEMS

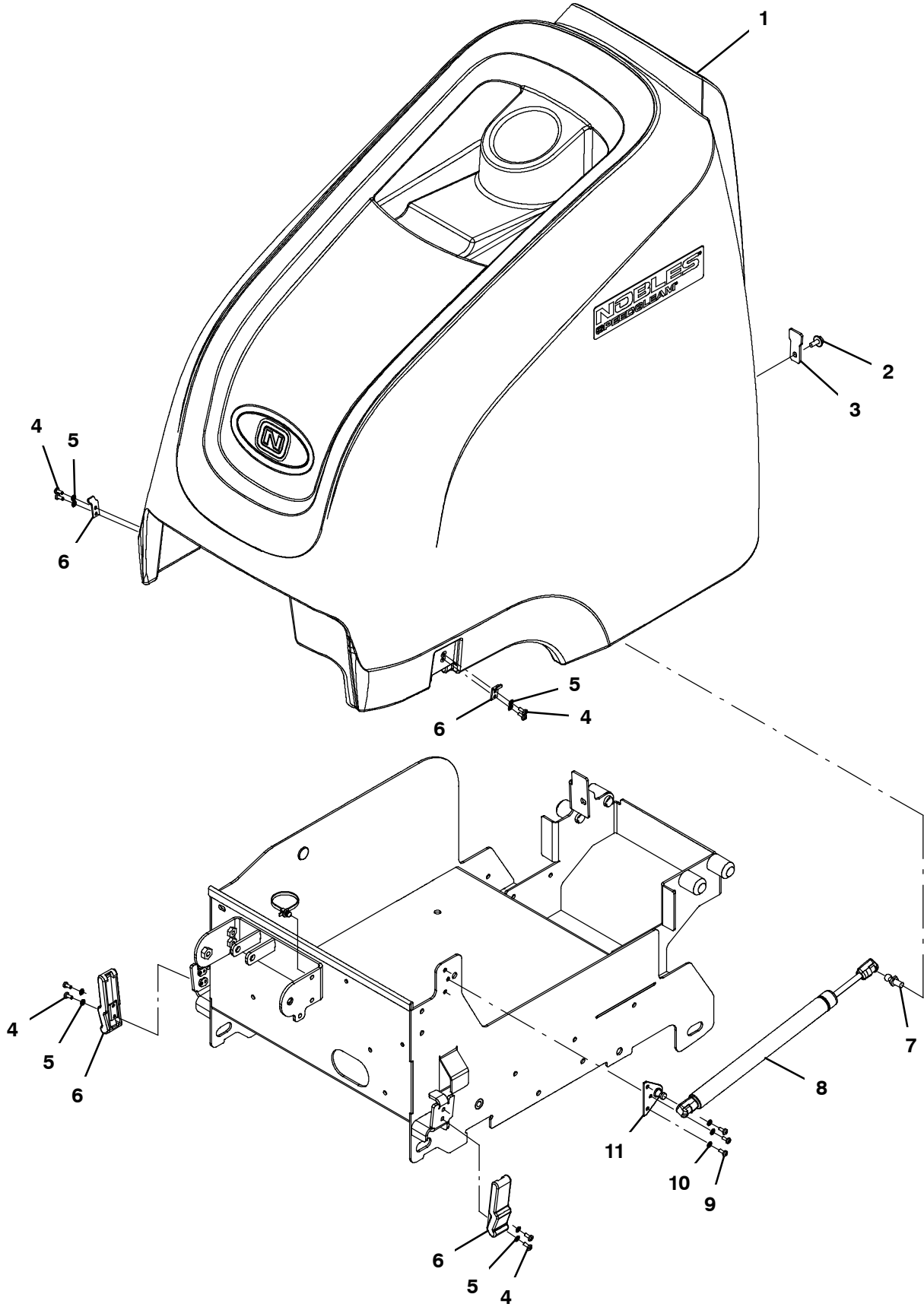
	Part No.	Serial Number	Description	Qty.
▽	9012784	(00000000-	) Bezel Kit, Mechanical, Push, Afmkt	1
▽	9012785	(00000000-	) Bezel Kit, Mechanical, Propel, Afmkt	1
▽	9012786	(00000000-	) Bezel Kit, Actuator, Propel, Afmkt	1
▲	1205618	(00000000-	) Cap, Usb	1
▽	9012787	(00000000-	) Circuitboard Kit, Console, W/ Usb Cable	1
▲	9012788	(00000000-	) Software Kit, Installation, W/Usb Cable	1
	1205323	(00000000-	) Switch, 0.1a, Spdt [Micro, Straight]	1
	1205781	(00000000-	) Spring, Return, Bail	1
▽	1072939	(00000000-	) Cable, Assy [B7/B5, Ground]	1
▲	605387	(00000000-	) Connector, Anderson, 050a, Red [W/O Con]	1
	1210639	(00000000-	) Switch, 15a, Spdt [Micro, Sim Rlr]	1
▽	1011402	(00000000-	) Switch, Key	1
▲	1017696	(00000000-	) Key Set, Replmt [F/Keyswitch 1011402]	1
	1064038	(00000000-	) Gauge, Hourmeter, 05- 277 Volt, Ac / Dc	1
	1011735	(00000000-	) Switch, Safety, Shutoff	1
	1206586	(00000000-	) Dial, Range, Speed	1
	1204930	(00000000-	) Potentiometer [100k, 1 Turn, B5/B7]	1
	1209730	(00000000-	) Cap, Toggle, Direction	1
	1209673	(00000000-	) Switch Assy, Toggle, Direction	1
	1205496	(00000000-	) Hook, Cord	2
▽	1208644	(00000000-	) Charger, 36vdc, 25a 85- 265vac [Offboard]	1
▲	130155	(00000000-	) Connector, Battery, 6ga 50a, Gray[2cont]	1
▽	1202585	(00000000-	) Charger, 36vdc, 25a 85- 265vac [On- Board]	1
▲	130155	(00000000-	) Connector, Battery, 6ga 50a, Gray[2cont]	1
	1073882	(00000000-	) Cord, Power, 16/3, 15a, 15ft Blk [Us]	1
	1032820	(00000000-	) Cord, Power, Blk [4.5meter, Uk]	1
	1032849	(00000000-	) Cord, Power, Blk [4.5meter, Ce]	1
	1026325	(00000000-	) Cord, Power, 1.0mm2/3 Blk[2.5meter, Aus]	1
	1026330	(00000000-	) Cord, Power, 1.0mm2 [2.5meter, China]	1
	1048304	(00000000-	) Cord, Power [4.5meter, India, S.Africa]	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

COVER GROUP

355220

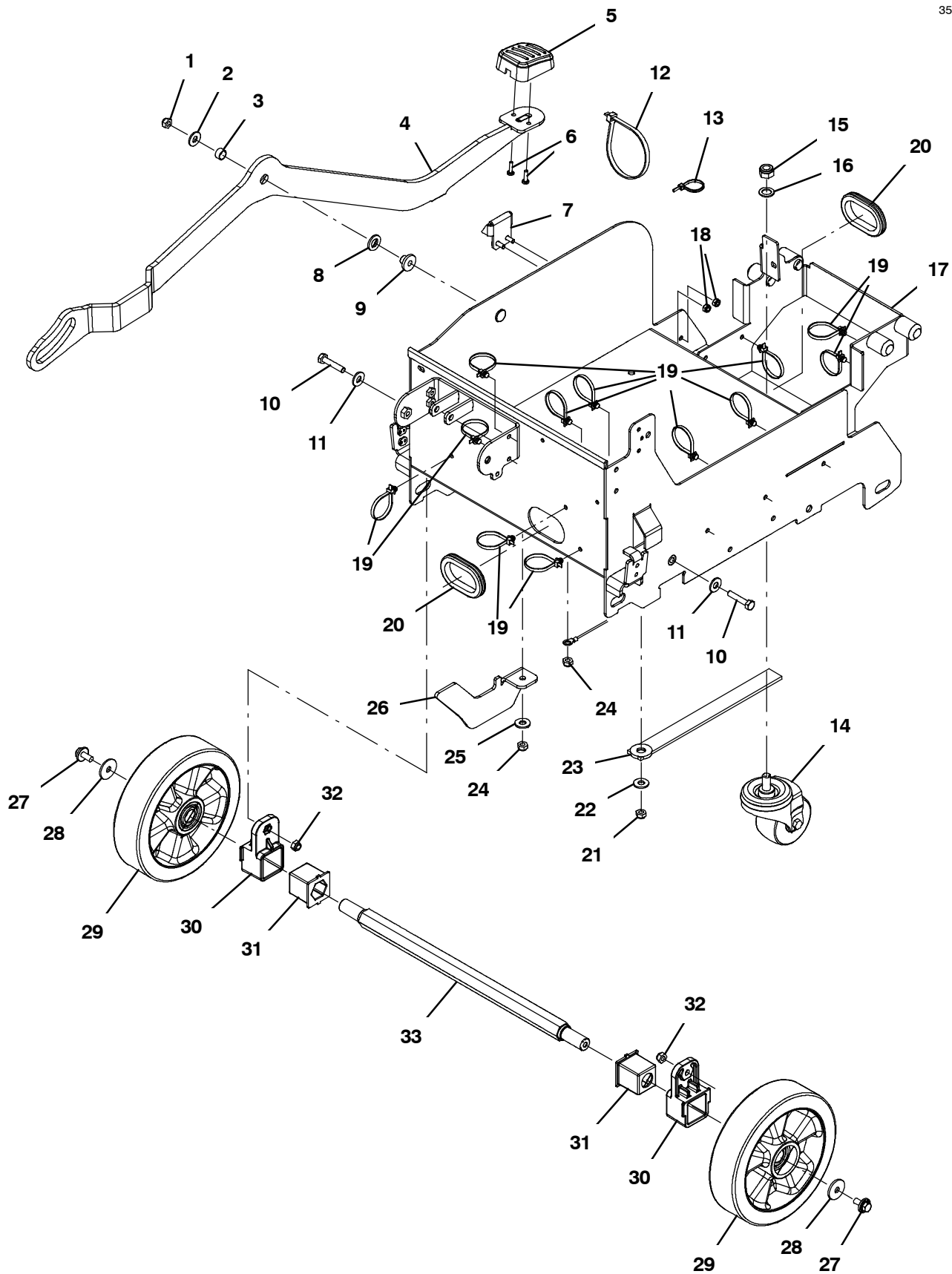


## COVER GROUP

Ref.	Part No.	Serial Number	Description	Qty.
1	1205981	(00000000-	) Cover, Battery, Rm- Spg [Sg5]	1
2	1034731	(00000000-	) Screw, Hex, M6 X 1.00 X 16, Ss, Sems	1
3	1204697	(00000000-	) Bracket, Pivot, Body	1
4	49697	(00000000-	) Screw, Pan, Phl, M4 X 0.70 X 10, Ss	4
5	02938	(00000000-	) Washer, Lock, Int, 08, Ss	4
6	1207285	(00000000-	) Latch, Draw, Rbr, W/ Keeper, Yellow	2
7	1205551	(00000000-	) Stud, Ball, 10mm Ball, M8x1.25 Stud	1
8	1205533	(00000000-	) Damper	1
9	49697	(00000000-	) Screw, Pan, Phl, M4 X 0.70 X 10, Ss	3
10	02938	(00000000-	) Washer, Lock, Int, 08, Ss	3
11	1205549	(00000000-	) Bracket, Stud, Ball, .389 Dia	1

FRAME GROUP, PUSH

355222





## FRAME GROUP, PUSH

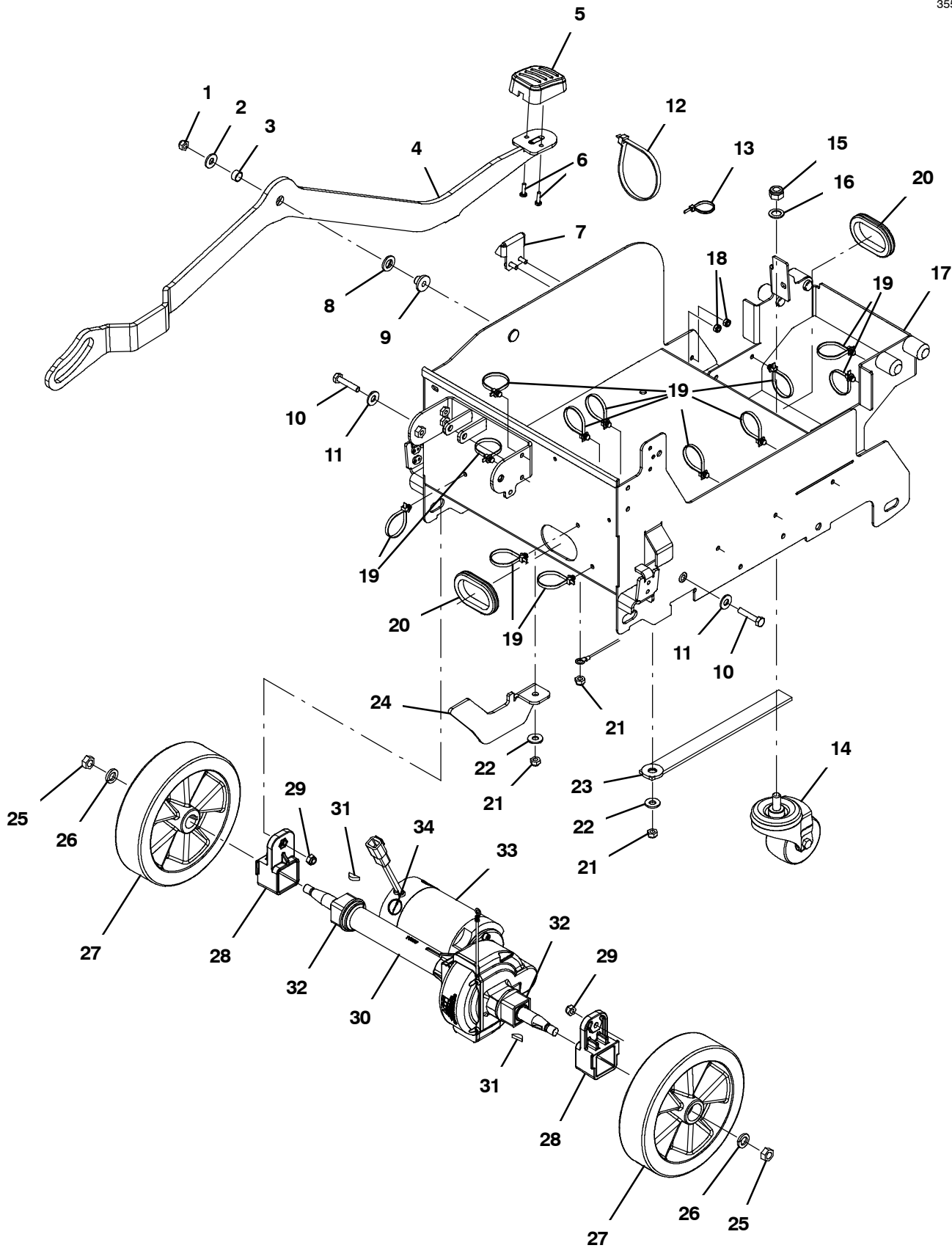
Ref.	Part No.	Serial Number	Description	Qty.	
1	08713	(00000000-	) Nut, Hex, Lock, M8 X 1.25, NI, Ss	1	
2	01685	(00000000-	) Washer, Flat, 0.38b 0.88d .08, Ss	1	
3	1205534	(00000000-	) Bearing, .50idx.31lg Journal	1	
4	1205104	(00000000-	) Pedal Wldt, Lift, Head	1	
5	1203776	(00000000-	) Cover, Pedal	1	
6	1043573	(00000000-	) Screw, #10- 14 X 0.675, Spl[Shcs,Selftap]	2	
7	1013946	(00000000-	) Bracket, Locking, Pedal, Foot	1	
8	1013936	(00000000-	) Washer, Flat, 0.51b 0.94d .10, Nyl	1	
9	1203351	(00000000-	) Bushing, Flng, 8.3mmb 12.6mmd 10.7mml	1	
10	74440	(00000000-	) Screw, Hex, M8 X 1.25 X 40, NI, Ss	2	
11	01685	(00000000-	) Washer, Flat, 0.38b 0.88d .08, Ss	2	
12	44961	(00000000-	) Tie, Cable, Nyl, 14.5l .30w 4.0 Max D	1	
13	130773	(00000000-	) Tie, Cable, Nyl, 11.0l, .14w, 3.0 Max. D	1	
▽	14	9012767	(00000000-	) Caster Kit, Afmkt, W/ Hdwr	1
▲	15	09741	(00000000-	) Nut, Hex, Lock, M12 X 1.75, NI, Ss	1
▲	16	140058	(00000000-	) Washer, Flat, 0.54b 0.88d .06, Ss [Wand]	1
17	1204572	(00000000-	) Frame Wldt, Main [B5]	1	
18	08712	(00000000-	) Nut, Hex, Lock, M6 X 1.00, NI, Ss	2	
19	1205847	(00000000-	) Tie, Cable, Nyl, 08.0l .19w, W/Fur Tree	15	
20	10632- 19	(00000000-	) Is this cut P/N for AM Replacement?	2	
21	08713	(00000000-	) Nut, Hex, Lock, M8 X 1.25, NI, Ss	1	
22	01685	(00000000-	) Washer, Flat, 0.38b 0.88d .08, Ss	1	
23	71579	(00000000-	) Strap, Static, W/Grommet, .19 1.1w 25.0l	1	
24	08713	(00000000-	) Nut, Hex, Lock, M8 X 1.25, NI, Ss	2	
25	01685	(00000000-	) Washer, Flat, 0.38b 0.88d .08, Ss	1	
26	1205501	(00000000-	) Bracket, Follower, Head, 50cm	1	
27	1020341	(00000000-	) Screw, Hex, M8 X 1.25 X 20, Ss, Sems	2	
28	1016331	(00000000-	) Washer, Flat, 0.34b 1.25d .11, Ss	2	
29	1202505	(00000000-	) Wheel, W/ Brg, 213mm	2	
30	1028292	(00000000-	) Adapter, Mtg, Axle, Alm [T3]	2	
31	1028381	(00000000-	) Grommet, Axle [Tpu, T3 Push]	2	
32	08713	(00000000-	) Nut, Hex, Lock, M8 X 1.25, NI, Ss	2	
33	1202931	(00000000-	) Axle, Wheel, Hex [B5 Push]	1	

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

FRAME GROUP, DRIVE

355223



## FRAME GROUP, DRIVE

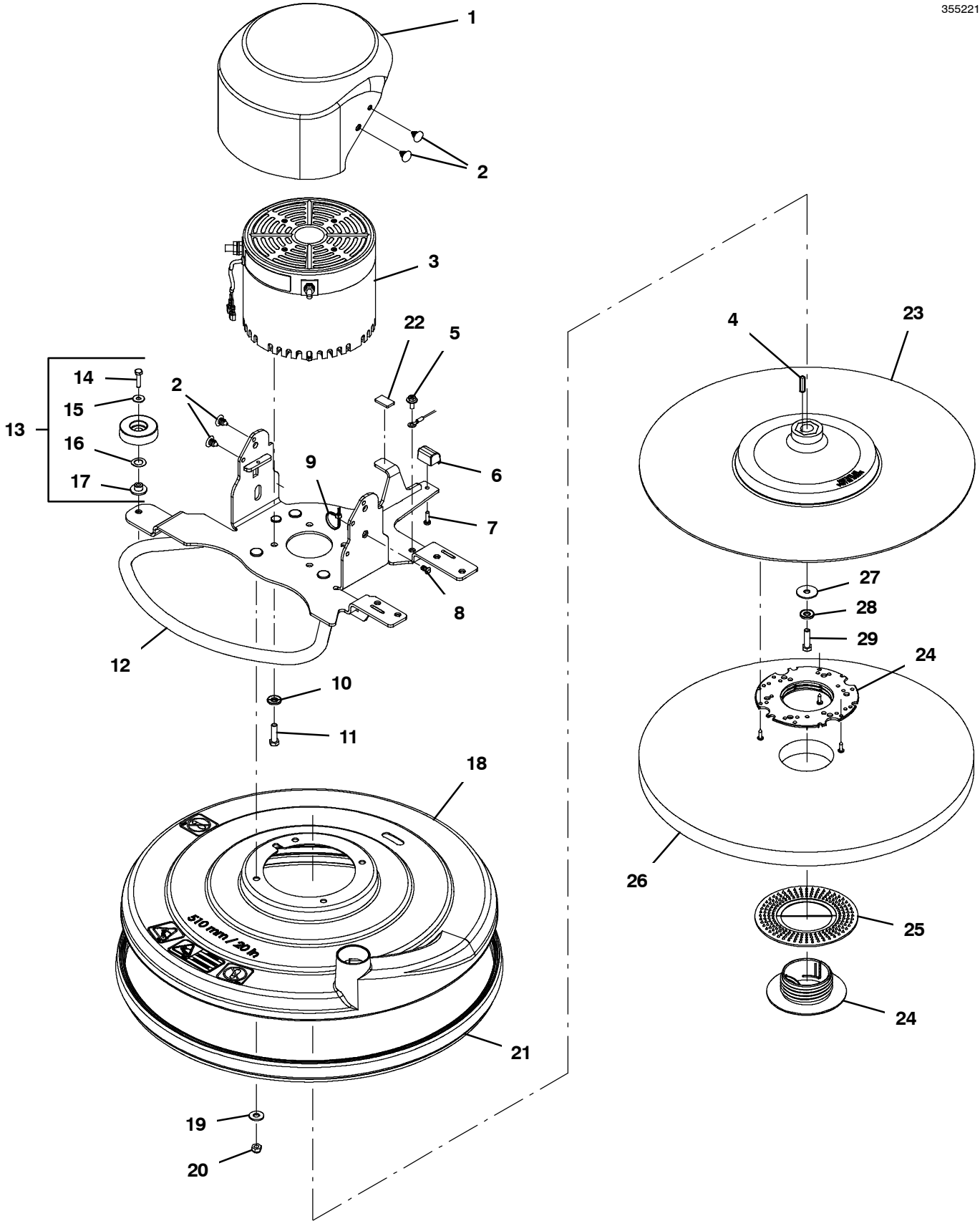
Ref.	Part No.	Serial Number	Description	Qty.	
1	08713	(00000000-	) Nut, Hex, Lock, M8 X 1.25, NI, Ss	1	
2	01685	(00000000-	) Washer, Flat, 0.38b 0.88d .08, Ss	1	
3	1205534	(00000000-	) Bearing, .50idx.31lg Journal	1	
4	1205104	(00000000-	) Pedal Wldt, Lift, Head	1	
5	1203776	(00000000-	) Cover, Pedal	1	
6	1043573	(00000000-	) Screw, #10- 14 X 0.675, Spl[Shcs,Selftap]	2	
7	1013946	(00000000-	) Bracket, Locking, Pedal, Foot	1	
8	1013936	(00000000-	) Washer, Flat, 0.51b 0.94d .10, Nyl	1	
9	1203351	(00000000-	) Bushing, Flng, 8.3mmb 12.6mmd 10.7mml	1	
10	74440	(00000000-	) Screw, Hex, M8 X 1.25 X 40, NI, Ss	2	
11	01685	(00000000-	) Washer, Flat, 0.38b 0.88d .08, Ss	2	
12	44961	(00000000-	) Tie, Cable, Nyl, 14.5l .30w 4.0 Max D	1	
13	130773	(00000000-	) Tie, Cable, Nyl, 11.0l, .14w, 3.0 Max. D	1	
▽	14	9012767	(00000000-	) Caster Kit, Afmkt, W/ Hdwr	1
▲	15	09741	(00000000-	) Nut, Hex, Lock, M12 X 1.75, NI, Ss	2
▲	16	140058	(00000000-	) Washer, Flat, 0.54b 0.88d .06, Ss [Wand]	2
17	1204572	(00000000-	) Frame Wldt, Main [B5]	1	
18	08712	(00000000-	) Nut, Hex, Lock, M6 X 1.00, NI, Ss	2	
19	1205847	(00000000-	) Tie, Cable, Nyl, 08.0l .19w, W/Fur Tree	15	
20	10632- 19	(00000000-	) Grommet, Rbr, 2.13id, F/2.5h, .12 Matl	2	
21	08713	(00000000-	) Nut, Hex, Lock, M8 X 1.25, NI, Ss	3	
22	01685	(00000000-	) Washer, Flat, 0.38b 0.88d .08, Ss	2	
23	71579	(00000000-	) Strap, Static, W/Grommet, .19 1.1w 25.0l	1	
24	1205501	(00000000-	) Bracket, Follower, Head, 50cm	1	
25	07788	(00000000-	) Nut, Hex, Std, M12 X 1.75, Ss	2	
26	140024	(00000000-	) Washer, Lock, Split, 0.50, Ss	2	
27	1020688	(00000000-	) Wheel, Scrbr, 213mm, W/ Taper	2	
28	1028292	(00000000-	) Adapter, Mtg, Axle, Alm [T3]	2	
29	08713	(00000000-	) Nut, Hex, Lock, M8 X 1.25, NI, Ss	2	
▽	30	1206634	(00000000-	) Transaxle, 24vdc [458h- 2100 Asi]	1
▲	31	1021167	(00000000-	) Key, Woodruff, 5mm	2
▲	32	612880	(00000000-	) Joint, Transaxle, Replmt	2
▲▽	33	1212352	(00000000-	) Motor, Transaxle, 24vdc, UI	1
▲▲	34	1212351	(00000000-	) Brush, Kit, Carbon, Transaxle, UI (1 Pkg = 4 Brushes)	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

HEAD GROUP, 510 MM (20 IN)

355221



## HEAD GROUP, 510 MM (20 IN)

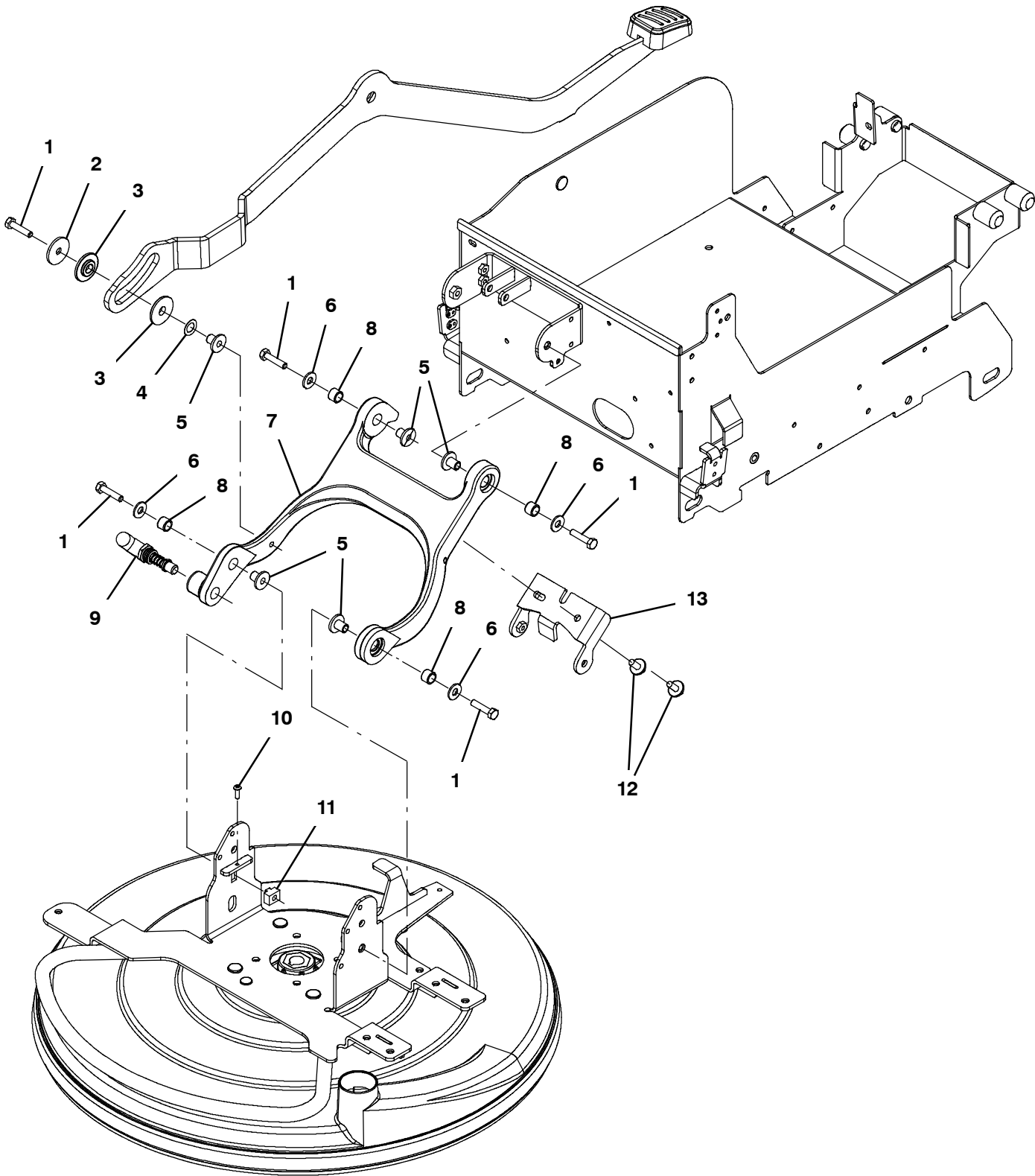
Ref.	Part No.	Serial Number	Description	Qty.
▽ ▲ ▲	1	1205768	(00000000- ) Cover, Motor, Spg	1
	2	1017236	(00000000- ) Plug, Hole, Rnd, 0.25h 0.6l, Brb, Nyl	4
	3	1210910	(00000000- ) Motor, Ele, 24- 60vdc 4700rpm 6.89hp	1
		1212017	(00000000- ) Brush Assy, Carbon, Afmkt	1
	4	00928	(00000000- ) Key, Sq, 0.25 X 0.25, 1.00l	1
	5	1034731	(00000000- ) Screw, Hex, M6 X 1.00 X 16, Ss, Sems	1
	6	1205755	(00000000- ) Roller, Guide	1
	7	1043573	(00000000- ) Screw, #10- 14 X 0.675, Spl[Shcs,Selftap]	1
	8	1071085	(00000000- ) Clip, Tie, 0.25d, Plstc	1
	9	130773	(00000000- ) Tie, Cable, Nyl, 11.0l, .14w, 3.0 Max. D	1
	10	41186	(00000000- ) Washer, Flat, Belleville, .31	4
	11	1016399	(00000000- ) Screw, Hex, M8 X 1.25 X 30, NI, Ss	4
▽ ▲	12	1204806	(00000000- ) Bracket, Mtg, Motor, 50cm	1
	13	9012768	(00000000- ) Wheel Kit, Bmpr, Afmkt, W/ Hdwr	1
	14	1016005	(00000000- ) Screw, Hex, M6 X 1.00 X 25, NI, FI, Ss	1
	15	01684	(00000000- ) Washer, Flat, 0.27b 0.69d .05, Ss	1
▲	16	1210221	(00000000- ) Washer, Wave, .515b, .875d, .013, Ss	1
▲	17	1210186	(00000000- ) Bushing, Flng, 6.3mmb 12.6mmd 7.7mml	1
	18	9012769	(00000000- ) Shroud, Dust, Afmkt, 51cm, [Na]	1
	19	01685	(00000000- ) Washer, Flat, 0.38b 0.88d .08, Ss	4
	20	08713	(00000000- ) Nut, Hex, Lock, M8 X 1.25, NI, Ss	4
	21	1208033	(00000000- ) Skirt Assy, Shrd, 20.0d	1
▽ ▲ ▲	22	1032763	(00000000- ) Gasket, Stand, Support	1
	23	1210491	(00000000- ) Driver Assy, Pad, 20d	1
	24	32506	(00000000- ) Device, Centering, Rh Pad Retainer	1
	25	1205787	(00000000- ) Collar, Locking, Pad Driver, 6.1"	1
	26	611788	(00000000- ) Pad, 20.0[Burnish, Hairblend,1pick=1ctn] (Qty 5 Pads)	1
	27	41186	(00000000- ) Washer, Flat, Belleville, .31	1
	28	25732	(00000000- ) Washer, Flat, 0.36b 1.25d .09, PI	1
	29	1016399	(00000000- ) Screw, Hex, M8 X 1.25 X 30, NI, Ss	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

HEAD LIFT GROUP

355224





## HEAD LIFT GROUP

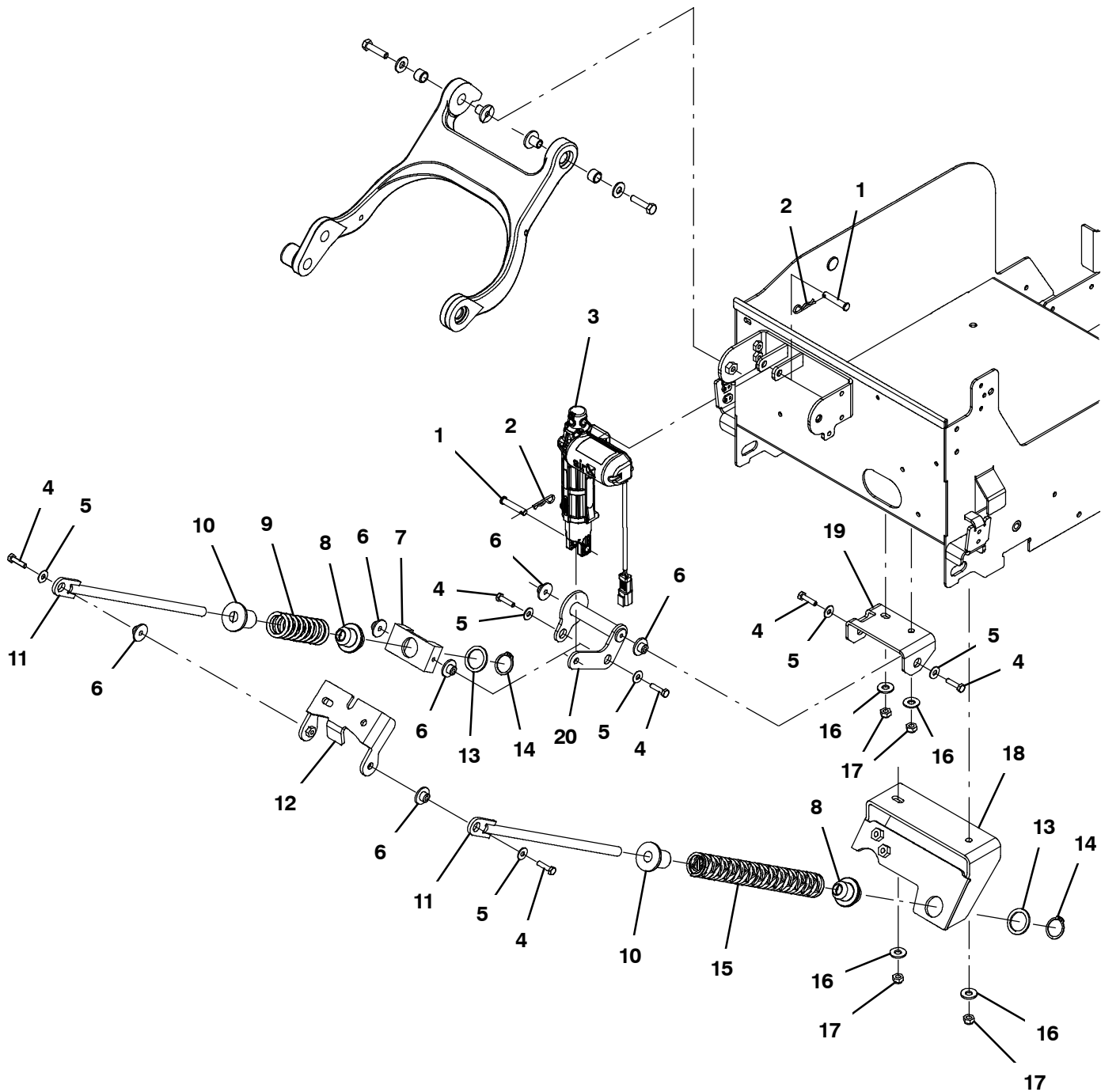
Ref.	Part No.	Serial Number	Description	Qty.
1	59658	(00000000-	) Screw, Hex, M8 X 1.25 X 35, NI, Ss	4
2	379829	(00000000-	) Washer, Flat, 0.34b 1.50d .12, Stl, Pl	1
3	1205779	(00000000-	) Roller, Flng, 12mmb 39.94mmd 6.5mml	2
4	1210221	(00000000-	) Washer, Wave, .515b, .875d, .013, Ss	1
5	1205562	(00000000-	) Bushing, Flng, 8.3mmb 11.7mmd 15mml	5
6	01685	(00000000-	) Washer, Flat, 0.38b 0.88d .08, Ss	4
▽	7	9012779	(00000000-) Arm, Lift, Head, Afmkt, W/Bearings	1
▲	8	9012780	(00000000-) Bearing Kit, 12mmb 16mmd 12mmw, Qty=4	1
9	1203378	(00000000-	) Pin, Spring, .50d 1.00b	1
10	1205799	(00000000-	) Screw, Btn, Torx, M5 X 0.8 X 16, 8.8, NI	1
11	1208531	(00000000-	) Nut, T, M8 X 1.25	1
12	1020341	(00000000-	) Screw, Hex, M8 X 1.25 X 20, Ss, Sems	2
13	1204894	(00000000-	) Guide Wldt, Rod	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

DOWN PRESSURE GROUP, AUTOMATED

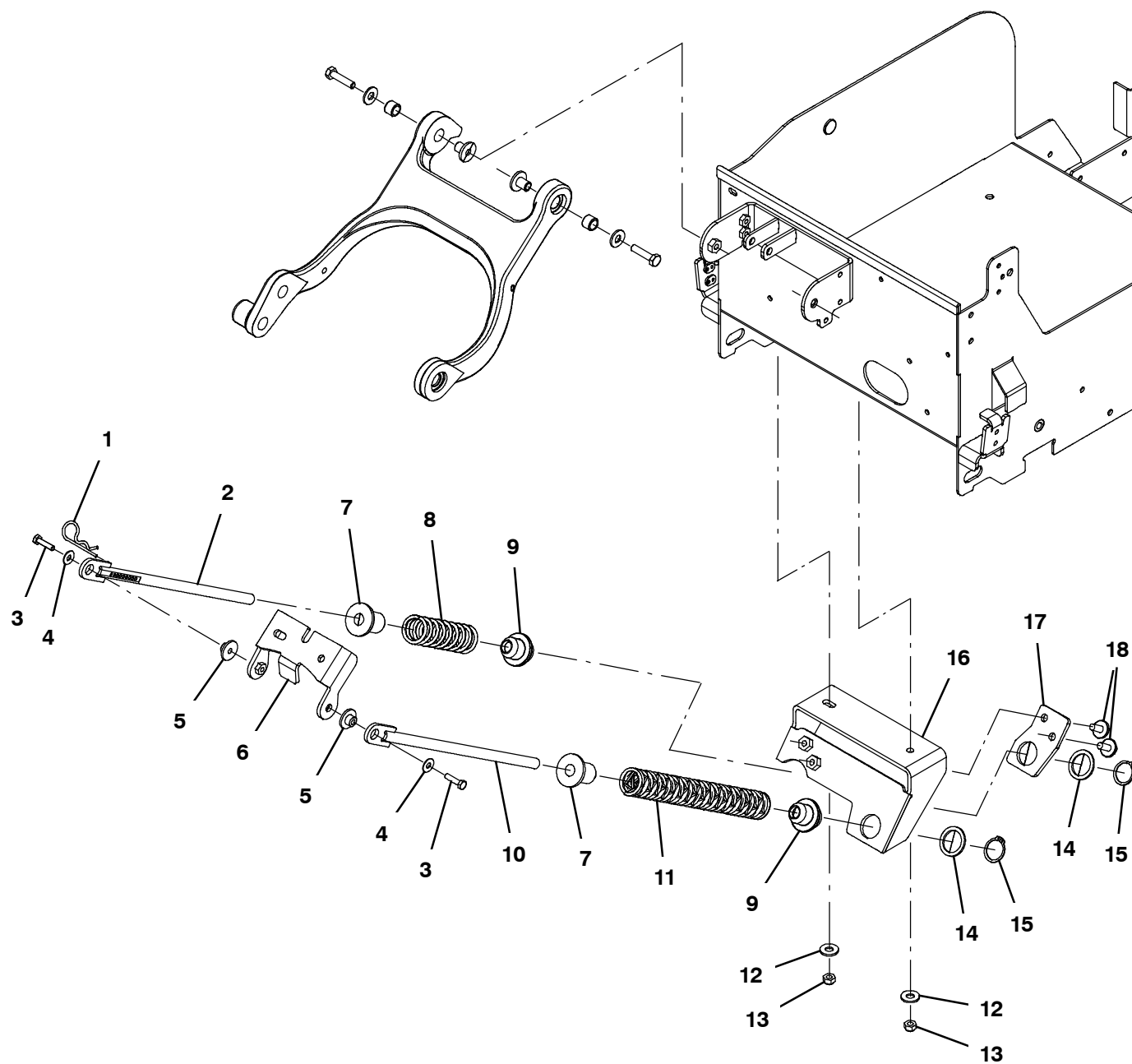
355225



## DOWN PRESSURE GROUP, AUTOMATED

Ref.	Part No.	Serial Number	Description	Qty.
1	397249	(00000000-	) Pin, Clevis, 0.31d X 1.62l	2
2	44906	(00000000-	) Pin, Cotter, Hair, 0.38d .093 Wir	2
3	1205700	(00000000-	) Actuator, 36vdc, 60mm Strk, 2sw, 350n	1
4	1016005	(00000000-	) Screw, Hex, M6 X 1.00 X 25, NI, FI, Ss	6
5	01684	(00000000-	) Washer, Flat, 0.27b 0.69d .05, Ss	6
6	1210186	(00000000-	) Bushing, Flng, 6.3mmb 12.6mmd 7.7mml	6
7	1203269	(00000000-	) Block, Guide, Rod	1
8	1205548	(00000000-	) Bushing, Guide, Rod	2
9	1205304	(00000000-	) Spring, Cmpr, 1.378od .177wir 3.95l	1
10	1205557	(00000000-	) Bushing, Spring	2
11	1203314	(00000000-	) Rod Wldt, Guide	2
12	1204894	(00000000-	) Guide Wldt, Rod	1
13	1205832	(00000000-	) Washer, Flat, 1.06b 1.42d .09thk, Nyl	2
14	1205567	(00000000-	) Ring, Retaining, Ext, 26mmd	2
15	1203333	(00000000-	) Spring, Cmpr, 1.314od .145wir 10.85l	1
16	01685	(00000000-	) Washer, Flat, 0.38b 0.88d .08, Ss	4
17	08713	(00000000-	) Nut, Hex, Lock, M8 X 1.25, NI, Ss	4
18	1204575	(00000000-	) Bracket Wldt, Rod	1
19	1205738	(00000000-	) Bracket, Bellcrank	1
20	1203198	(00000000-	) Bracket Wldt, Bellcrank	1

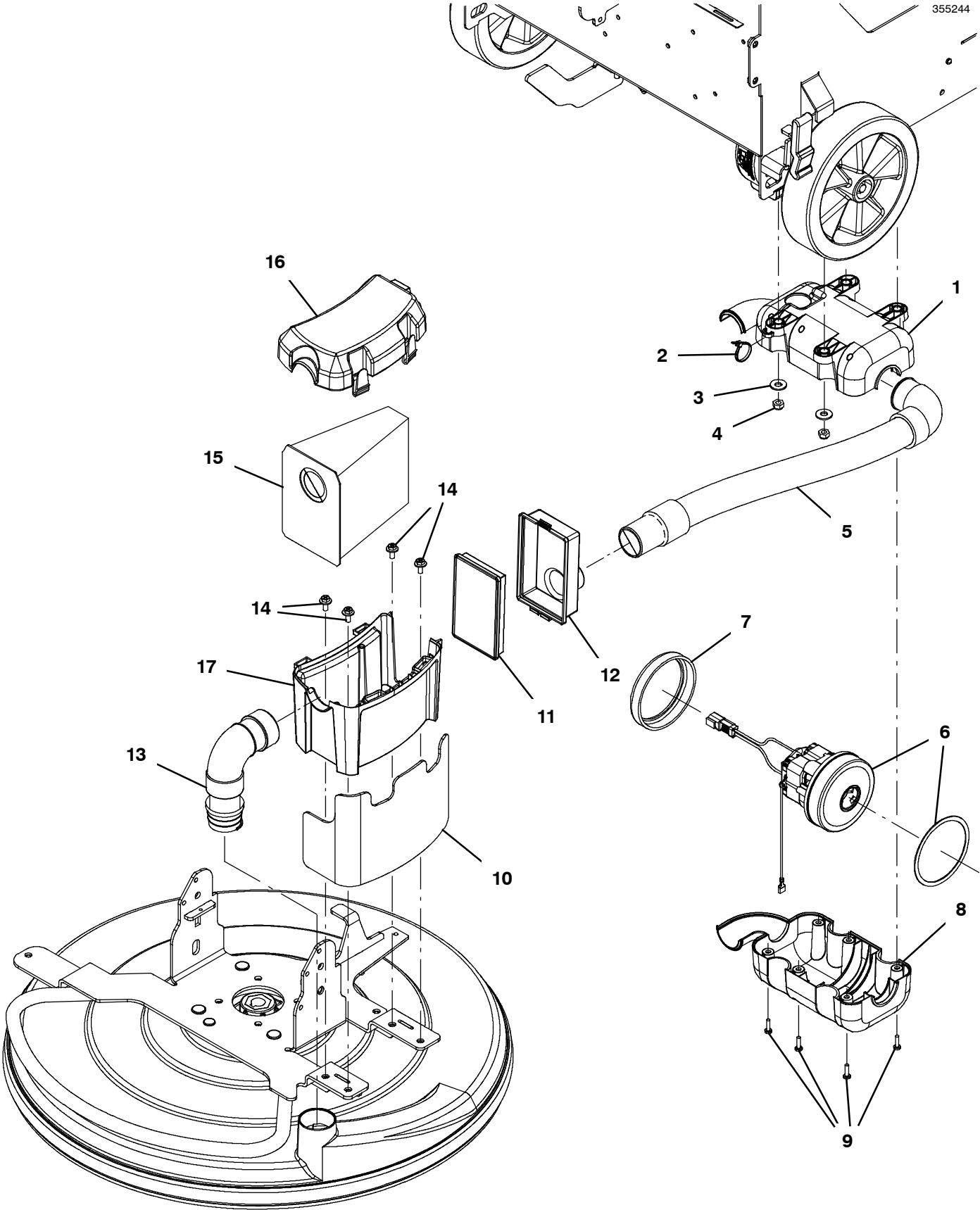
355226



## DOWN PRESSURE GROUP, MECHANICAL

Ref.	Part No.	Serial Number	Description	Qty.
1	02942	(00000000-	) Pin, Hair, Cotter, 0.62d .120 Wir	1
2	1207690	(00000000-	) Rod Wldt, Guide, Adj	1
3	1016005	(00000000-	) Screw, Hex, M6 X 1.00 X 25, NI, Fl, Ss	2
4	01684	(00000000-	) Washer, Flat, 0.27b 0.69d .05, Ss	2
5	1210186	(00000000-	) Bushing, Flng, 6.3mmb 12.6mmd 7.7mml	2
6	1204569	(00000000-	) Bracket, Rod, Guide	1
7	1205557	(00000000-	) Bushing, Spring	2
8	1205304	(00000000-	) Spring, Cmpr, 1.378od .177wir 3.95l	1
9	1205548	(00000000-	) Bushing, Guide, Rod	2
10	1203314	(00000000-	) Rod Wldt, Guide	1
11	1203333	(00000000-	) Spring, Cmpr, 1.314od .145wir 10.85l	1
12	01685	(00000000-	) Washer, Flat, 0.38b 0.88d .08, Ss	2
13	08713	(00000000-	) Nut, Hex, Lock, M8 X 1.25, NI, Ss	2
14	1205832	(00000000-	) Washer, Flat, 1.06b 1.42d .09thk, Nyl	2
15	1205567	(00000000-	) Ring, Retaining, Ext, 26mmd	2
16	1204575	(00000000-	) Bracket Wldt, Rod	1
17	1208110	(00000000-	) Plate, Spring	1
18	1020341	(00000000-	) Screw, Hex, M8 X 1.25 X 20, Ss, Sems	2

DUST CONTROL GROUP, ACTIVE



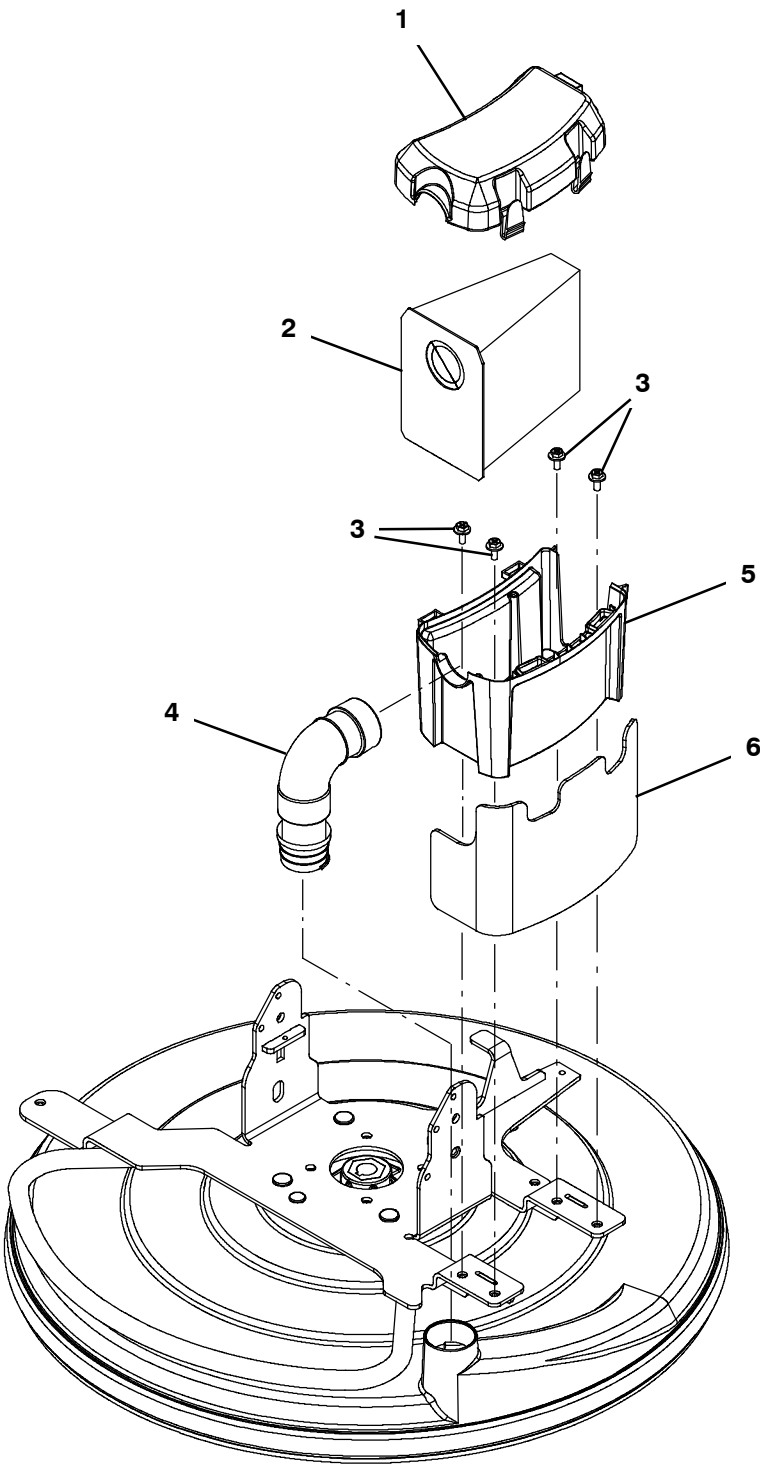


## DUST CONTROL GROUP, ACTIVE

Ref.	Part No.	Serial Number	Description	Qty.
1	1203164	(00000000-	) Housing, Vacuum Motor, Left	1
2	130773	(00000000-	) Tie, Cable, Nyl, 11.0l, .14w, 3.0 Max. D	1
3	01685	(00000000-	) Washer, Flat, 0.38b 0.88d .08, Ss	4
4	08713	(00000000-	) Nut, Hex, Lock, M8 X 1.25, NI, Ss	4
5	607275	(00000000-	) Hose, Vacuum, 1.50id X 040.0l, 2cuff,E90	1
6	9012781	(00000000-	) Fan Kit, Vacuum, Afmkt, W/ Gasket	1
7	1203349	(00000000-	) Gasket, Vac Motor	1
8	1203165	(00000000-	) Housing, Vacuum Motor, Right	1
9	1043573	(00000000-	) Screw, #10- 14 X 0.675, Spl[Shcs,Selftap]	6
10	1211826	(00000000-	) Guard, Wldt, Dust Box	1
11	1203162	(00000000-	) Filter, Hepa	1
12	1206013	(00000000-	) Housing, Filter, Hepa, Spg	1
13	1204900	(00000000-	) Hose, Assy, 1.50 Id	1
14	1034731	(00000000-	) Screw, Hex, M6 X 1.00 X 16, Ss, Sems	4
15	1210869	(00000000-	) Bag, Dust, Paper[1 Pick=1 Pkg] (1 Pkg=10 Bags) (Standard)	1
16	1206015	(00000000-	) Cover, Dust Control, Spg	1
17	1206014	(00000000-	) Base, Dust Control, Spg	1

DUST CONTROL GROUP, PASSIVE

355230

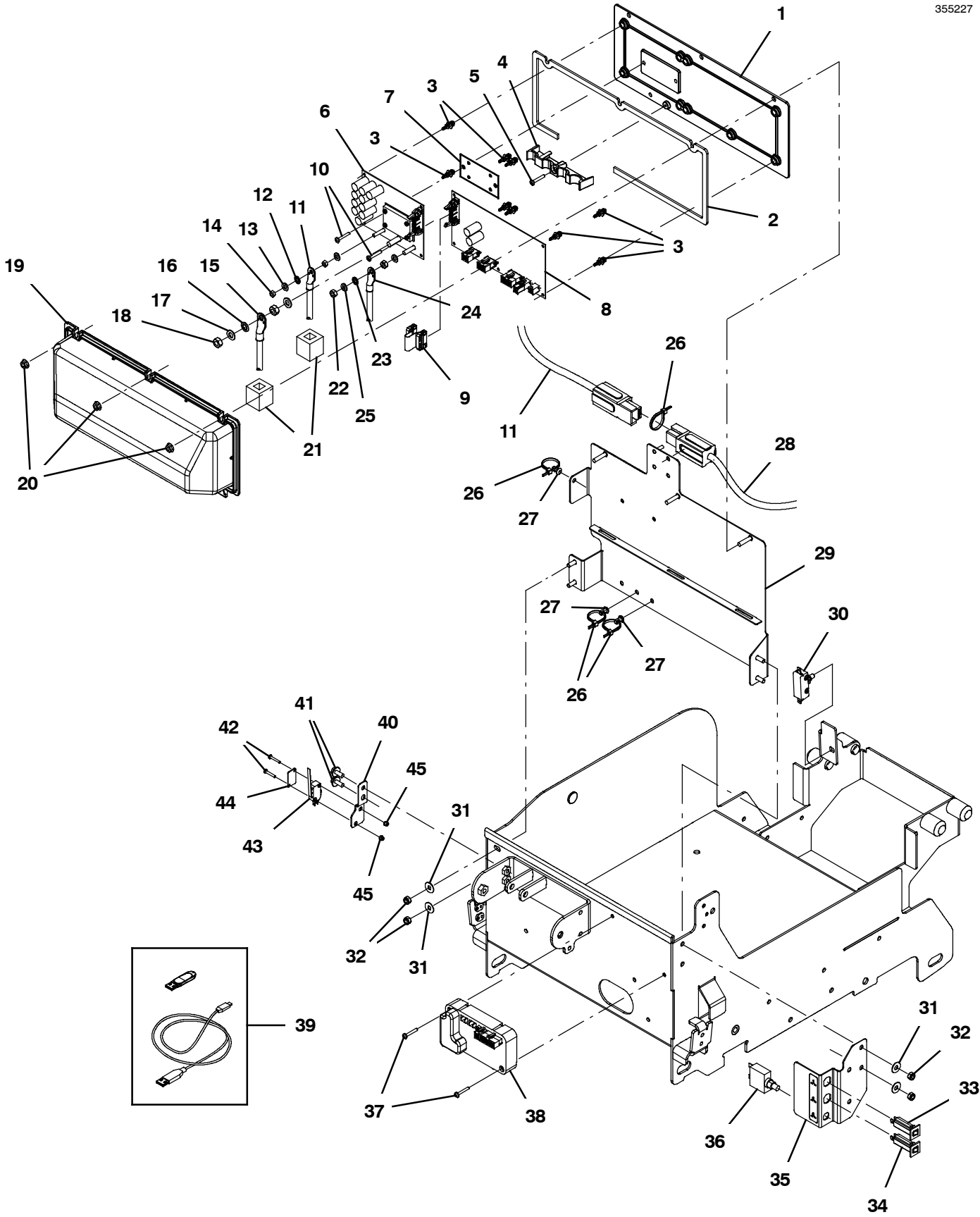


## DUST CONTROL GROUP, PASSIVE

Ref.	Part No.	Serial Number	Description	Qty.
1	1206015	(00000000-	) Cover, Dust Control, Spg	1
2	1210869	(00000000-	) Bag, Dust, Paper[1 Pick=1 Pkg] (1 Pkg=10 Bags) (Standard)	1
2	1208744	(00000000-	) Bag, Dust, Cloth (Optional for Passive Dust Control Only)	1
3	1034731	(00000000-	) Screw, Hex, M6 X 1.00 X 16, Ss, Sems	4
4	1204900	(00000000-	) Hose, Assy, 1.50 Id	1
5	1206014	(00000000-	) Base, Dust Control, Spg	1
6	1211826	(00000000-	) Guard, Wldt, Dust Box	1

ELECTRICAL COMPONENTS GROUP

355227



## ELECTRICAL COMPONENTS GROUP

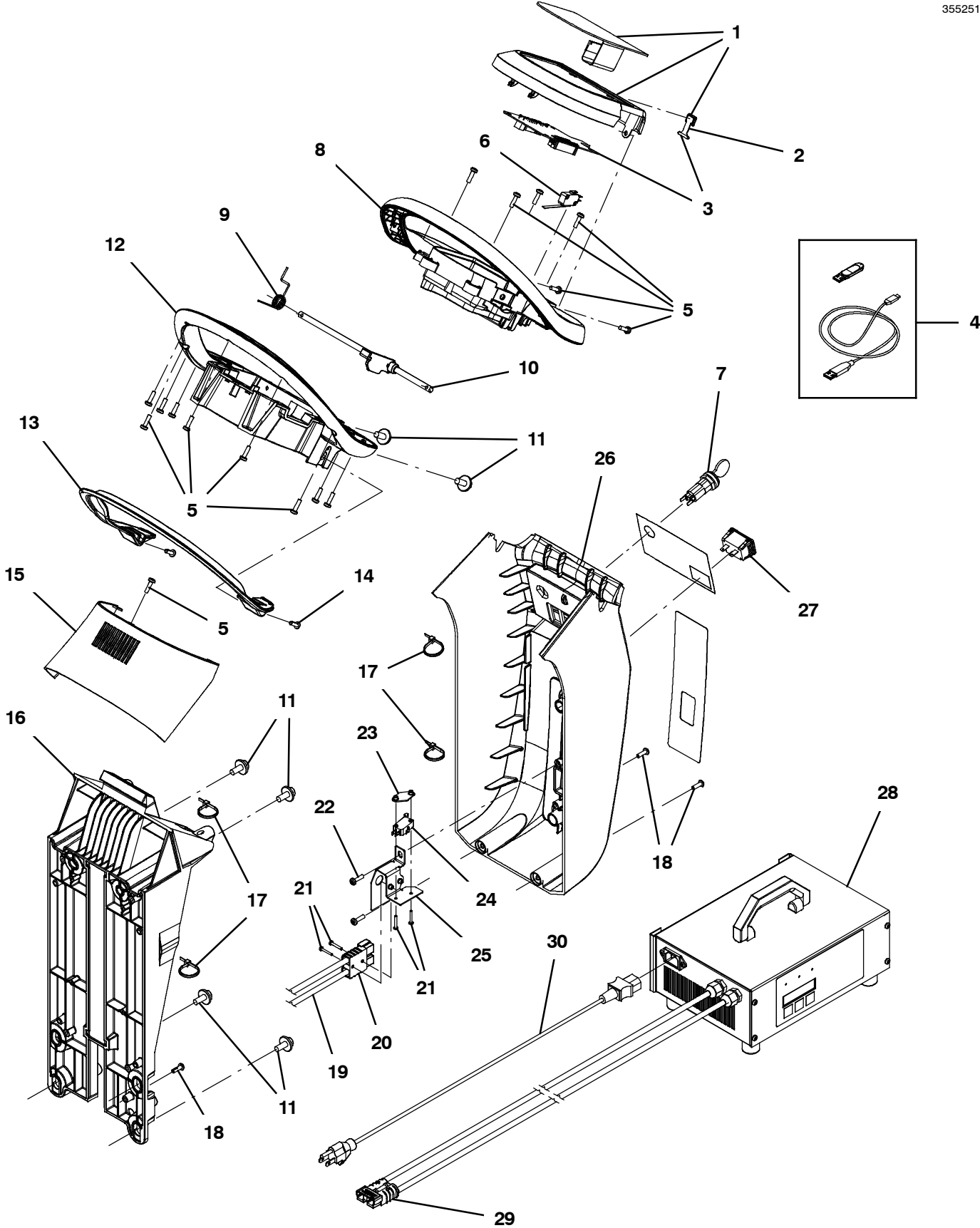
Ref.	Part No.	Serial Number	Description	Qty.
	1	1207928	(00000000- ) Panel, Mounting, Cast	1
	2	1205971	(00000000- ) Gasket, Cover, Circuitboard	1
	3	1209448	(00000000- ) Standoff, Circuitboard, .25	9
	4	1203975	(00000000- ) Spacer, Terminal	1
	5	33931	(00000000- ) Screw, Pan, Phl, M4 X 0.70 X 30, Ss	1
▽	6	9012782	(00000000- ) Circuitboard Kit, Bridge, Afmkt, W/Strap	1
▲	7	1205845	(00000000- ) Circuitboard, Silpad [1/2 Bridge, Lower]	1
	8	9012783	(00000000- ) Circuitboard Kit, Base, Afmkt, W/ Strap	1
	8	9012796	(00000000- ) Circuitboard Kit, Option, Afmkt, W/Strap	1
	9	1206669	(00000000- ) Cable, Assy [Ribbon, 20 Pos., 2.0l]	1
	10	33931	(00000000- ) Screw, Pan, Phl, M4 X 0.70 X 30, Ss	2
	11	1072935	(00000000- ) Cable, Assy, Fuse [B5, 100a, Propel]	1
	12	07515	(00000000- ) Washer, Lock, Int, 0.25, Ss	1
	13	1061918	(00000000- ) Washer, Flat, 0.25b 0.47d .06, Brs	1
	14	1202864	(00000000- ) Nut, Hex, Std, M5 X 0.80, Brs	1
	15	1072372	(00000000- ) Cable, 04ga 36.4l Blue [M8 Ring/M8 Ring]	1
	16	43952	(00000000- ) Washer, Lock, Int, 0.31, Ss	1
	17	1209373	(00000000- ) Washer, Flat, M8.4b X 16d X 1.6, Brs	1
	18	41361	(00000000- ) Nut, Hex, Std, M8 X 1.25, Brs	1
	19	1207594	(00000000- ) Cover, Board, Cntrl	1
	20	07790	(00000000- ) Nut, Hex, Flng, M6 X 1.00	3
	21	1210283	(00000000- ) Box, Wire [Ferrite, Emi Filter]	2
	22	1061910	(00000000- ) Nut, Hex, Std, M6 X 1.00, Brs	1
	23	07515	(00000000- ) Washer, Lock, Int, 0.25, Ss	1
	24	1072939	(00000000- ) Cable, Assy [B7/B5, Ground]	1
	25	1061918	(00000000- ) Washer, Flat, 0.25b 0.47d .06, Brs	1
	26	130773	(00000000- ) Tie, Cable, Nyl, 11.0l, .14w, 3.0 Max. D	4
	27	1071085	(00000000- ) Clip, Tie, 0.25d, Plstc	3
	28	1072365	(00000000- ) Cable, 02ga 21.6l Red [M8 Ring / And.]	1
	29	1204898	(00000000- ) Panel Wldt, Mounting	1
	30	1207893	(00000000- ) Switch, Push, Snap Action, 25a [No]	1
	31	01684	(00000000- ) Washer, Flat, 0.27b 0.69d .05, Ss	2
	32	08712	(00000000- ) Nut, Hex, Lock, M6 X 1.00, NI, Ss	2
	33	1064184	(00000000- ) Circuitbreaker, 02.5a, Resetable	1
	34	1064188	(00000000- ) Circuitbreaker, 15.0a, Resetable	1
	35	1208453	(00000000- ) Bracket, Circuit Breaker	1
	36	383725	(00000000- ) Circuitbreaker, 30.0a, Resetable	1
	37	33931	(00000000- ) Screw, Pan, Phl, M4 X 0.70 X 30, Ss	2
▽	38	9012826	(00000000- ) Controller, Drive, Afmkt, W/ Usb Cable (Drive Model)	1
▲	39	9012788	(00000000- ) Software Kit, Installation, W/Usb Cable	1
	40	1205767	(00000000- ) Bracket, Switch	1
	41	1034731	(00000000- ) Screw, Hex, M6 X 1.00 X 16, Ss, Sems	2
	42	06922	(00000000- ) Screw, Pan, Phl, M3 X 0.50 X 20, 4.8	2
	43	1205323	(00000000- ) Switch, 0.1a, Spdt [Micro, Straight]	1
	44	601359	(00000000- ) Plate, Backing, Switch	1
	45	1016603	(00000000- ) Nut, Clinch, M3 X 0.5, NI	2

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

CONSOLE GROUP, PUSH, OFF BOARD CHARGER

355251





## CONSOLE GROUP, PUSH, OFF BOARD CHARGER

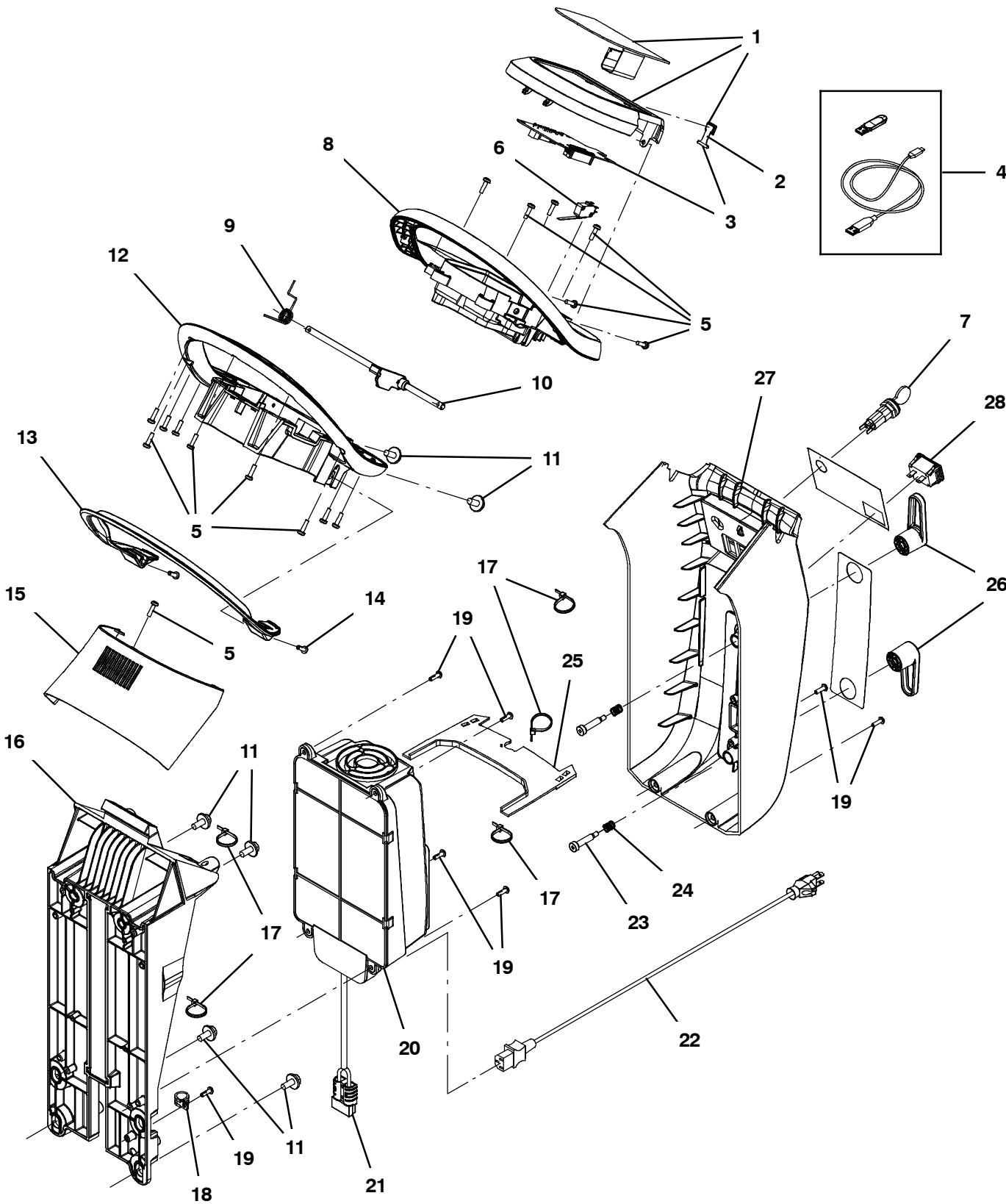
	Ref.	Part No.	Serial Number	Description	Qty.
▽	1	9012784	(00000000-	) Bezel Kit, Mechanical, Push, Afmkt	1
▲	2	1205618	(00000000-	) Cap, Usb	1
▽	3	9012787	(00000000-	) Circuitboard Kit, Console, W/ Usb Cable	1
▲	4	9012788	(00000000-	) Software Kit, Installation, W/Usb Cable	1
	5	1043573	(00000000-	) Screw, #10- 14 X 0.675, Spl[Shcs,Selftap]	16
	6	1205323	(00000000-	) Switch, 0.1a, Spdt [Micro, Straight]	1
▽	7	1011402	(00000000-	) Switch, Key	1
▲		1017696	(00000000-	) Key Set, Replmt [F/ Keyswitch 1011402]	1
	8	1203787	(00000000-	) Housing, Handle, Cntrl, Top	1
	9	1205781	(00000000-	) Spring, Return, Bail	1
	10	1205143	(00000000-	) Shaft Asm, Bail, Handle	1
	11	1020341	(00000000-	) Screw, Hex, M8 X 1.25 X 20, Ss, Sems	6
	12	1203795	(00000000-	) Housing, Handle, Cntrl, Bottom	1
	13	1205778	(00000000-	) Handle, Bail [Machined]	1
	14	1205799	(00000000-	) Screw, Btn, Torx, M5 X 0.8 X 16, 8.8, NI	2
	15	1207004	(00000000-	) Cover, Handle, Cntrl	1
	16	1205751	(00000000-	) Frame, Column, Cntrl [Machined]	1
	17	130773	(00000000-	) Tie, Cable, Nyl, 11.0l, .14w, 3.0 Max. D	4
	18	1205799	(00000000-	) Screw, Btn, Torx, M5 X 0.8 X 16, 8.8, NI	3
▽	19	1072939	(00000000-	) Cable, Assy [B7/B5, Ground]	1
▲	20	605387	(00000000-	) Connector, Anderson, 050a, Red [W/O Con]	1
	21	06922	(00000000-	) Screw, Pan, Phl, M3 X 0.50 X 20, 4.8	4
	22	1043573	(00000000-	) Screw, #10- 14 X 0.675, Spl[Shcs,Selftap]	2
	23	1013705	(00000000-	) Plate, Thread, Switch, M3 Nut, 96hr PI	1
	24	1210639	(00000000-	) Switch, 15a, Spdt [Micro, Sim Rlr]	1
	25	1204516	(00000000-	) Bracket, Plug, Charger	1
	26	9012789	(00000000-	) Cover, Console, Afmkt, W/ Label [Na]	1
	26	9012790	(00000000-	) Cover, Console, Afmkt, W/ Label [Jp]	1
	26	9012791	(00000000-	) Cover, Console, Afmkt, W/ Label [Ce]	1
	27	1064038	(00000000-	) Gauge, Hourmeter, 05- 277 Volt, Ac / Dc	1
▽	28	1208644	(00000000-	) Charger, 36vdc, 25a 85- 265vac [Offboard]	1
▲	29	130155	(00000000-	) Connector, Battery, 6ga 50a, Gray[2cont]	1
	30	1073882	(00000000-	) Cord, Power, 16/3, 15a, 15ft Blk [Us]	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

CONSOLE GROUP, PUSH, ON BOARD CHARGER

355252



## CONSOLE GROUP, PUSH, ON BOARD CHARGER

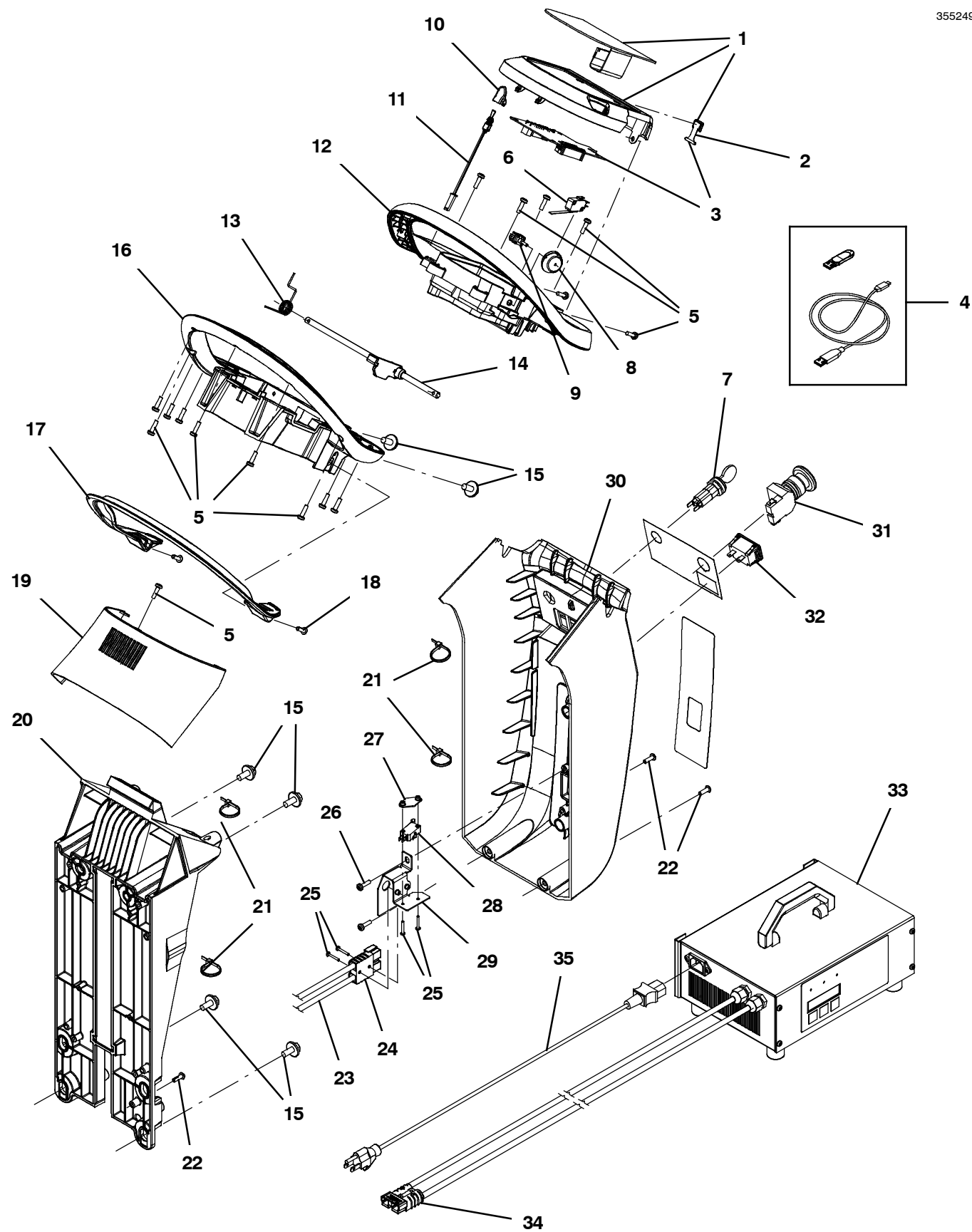
Ref.	Part No.	Serial Number	Description	Qty.
▽	1	9012784	(00000000- ) Bezel Kit, Mechanical, Push, Afmkt	1
▲	2	1205618	(00000000- ) Cap, Usb	1
▽	3	9012787	(00000000- ) Circuitboard Kit, Console, W/ Usb Cable	1
▲	4	9012788	(00000000- ) Software Kit, Installation, W/Usb Cable	1
	5	1043573	(00000000- ) Screw, #10- 14 X 0.675, Spl[Shcs,Selftap]	16
	6	1205323	(00000000- ) Switch, 0.1a, Spdt [Micro, Straight]	1
▽	7	1011402	(00000000- ) Switch, Key	1
▲		1017696	(00000000- ) Key Set, Replmt [F/ Keyswitch 1011402]	1
	8	1203787	(00000000- ) Housing, Handle, Cntrl, Top	1
	9	1205781	(00000000- ) Spring, Return, Bail	1
	10	1205143	(00000000- ) Shaft Asm, Bail, Handle	1
	11	1020341	(00000000- ) Screw, Hex, M8 X 1.25 X 20, Ss, Sems	6
	12	1203795	(00000000- ) Housing, Handle, Cntrl, Bottom	1
	13	1205778	(00000000- ) Handle, Bail [Machined]	1
	14	1205799	(00000000- ) Screw, Btn, Torx, M5 X 0.8 X 16, 8.8, NI	2
	15	1207004	(00000000- ) Cover, Handle, Cntrl	1
	16	1205751	(00000000- ) Frame, Column, Cntrl [Machined]	1
	17	130773	(00000000- ) Tie, Cable, Nyl, 11.0l, .14w, 3.0 Max. D	4
	18	378969	(00000000- ) Clamp, Cable, Stl, 0.56d X 0.38w, 1hole	1
	19	1205799	(00000000- ) Screw, Btn, Torx, M5 X 0.8 X 16, 8.8, NI	5
▽	20	1202585	(00000000- ) Charger, 36vdc, 25a 85- 265vac [On- Board]	1
▲		1212411	(00000000- ) Label, Front Panel Display, Charger [On- Board]	1
▲	21	130155	(00000000- ) Connector, Battery, 6ga 50a, Gray[2cont]	1
	22	1073882	(00000000- ) Cord, Power, 16/3, 15a, 15ft Blk [Us]	1
	23	1024965	(00000000- ) Bolt, Shld, 08mmd X 030mm, M06 X 1.0	2
	24	611311	(00000000- ) Spring, Cmpr, 0.40od .05wir 00.5l, Pl,Mw	2
	25	1207290	(00000000- ) Cover, Charger	1
	26	1205496	(00000000- ) Hook, Cord	2
	27	9012789	(00000000- ) Cover, Console, Afmkt, W/ Label [Na]	1
	27	9012790	(00000000- ) Cover, Console, Afmkt, W/ Label [Jp]	1
	27	9012791	(00000000- ) Cover, Console, Afmkt, W/ Label [Ce]	1
	28	1064038	(00000000- ) Gauge, Hourmeter, 05- 277 Volt, Ac / Dc	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

CONSOLE GROUP, BASE, DRIVE, OFF BOARD CHARGER

355249



## CONSOLE GROUP, BASE, DRIVE, OFF BOARD CHARGER

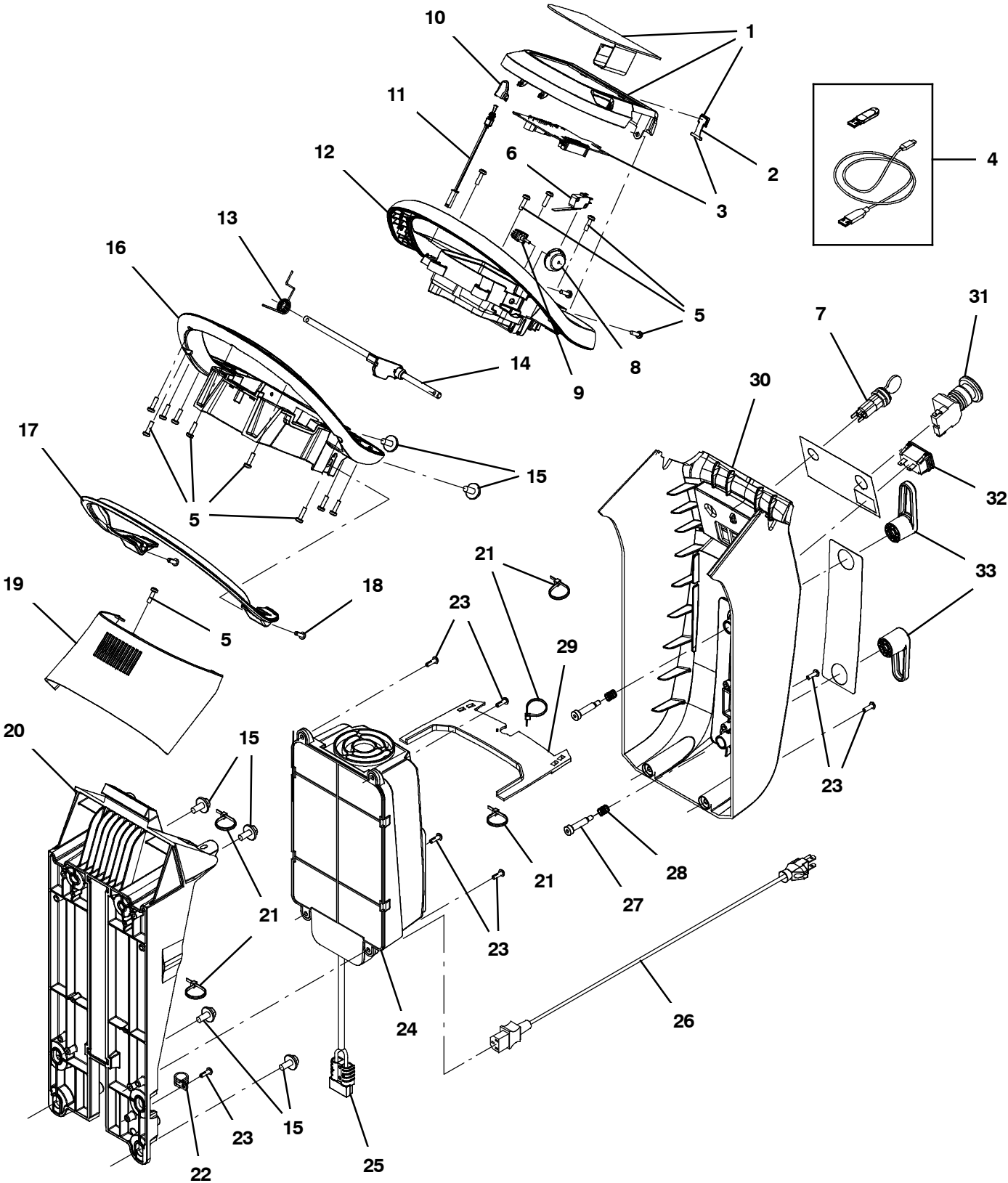
Ref.	Part No.	Serial Number	Description	Qty.
▽	1	9012785	(00000000- ) Bezel Kit, Mechanical, Propel, Afmkt	1
▲	2	1205618	(00000000- ) Cap, Usb	1
▽	3	9012787	(00000000- ) Circuitboard Kit, Console, W/ Usb Cable	1
▲	4	9012788	(00000000- ) Software Kit, Installation, W/Usb Cable	1
	5	1043573	(00000000- ) Screw, #10- 14 X 0.675, Spl[Shcs,Selftap]	16
	6	1205323	(00000000- ) Switch, 0.1a, Spdt [Micro, Straight]	1
▽	7	1011402	(00000000- ) Switch, Key	1
▲		1017696	(00000000- ) Key Set, Replmt [F/ Keyswitch 1011402]	1
	8	1206586	(00000000- ) Dial, Range, Speed	1
	9	1204930	(00000000- ) Potentiometer [100k, 1 Turn, B5/B7]	1
	10	1209730	(00000000- ) Cap, Toggle, Direction	1
	11	1209673	(00000000- ) Switch Assy, Toggle, Direction	1
	12	1203787	(00000000- ) Housing, Handle, Cntrl, Top	1
	13	1205781	(00000000- ) Spring, Return, Bail	1
	14	1205143	(00000000- ) Shaft Asm, Bail, Handle	1
	15	1020341	(00000000- ) Screw, Hex, M8 X 1.25 X 20, Ss, Sems	6
	16	1203795	(00000000- ) Housing, Handle, Cntrl, Bottom	1
	17	1205778	(00000000- ) Handle, Bail [Machined]	1
	18	1205799	(00000000- ) Screw, Btn, Torx, M5 X 0.8 X 16, 8.8, NI	2
	19	1207004	(00000000- ) Cover, Handle, Cntrl	1
	20	1205751	(00000000- ) Frame, Column, Cntrl [Machined]	1
	21	130773	(00000000- ) Tie, Cable, Nyl, 11.0l, .14w, 3.0 Max. D	4
	22	1205799	(00000000- ) Screw, Btn, Torx, M5 X 0.8 X 16, 8.8, NI	3
▽	23	1072939	(00000000- ) Cable, Assy [B7/B5, Ground]	1
▲	24	605387	(00000000- ) Connector, Anderson, 050a, Red [W/O Con]	1
	25	06922	(00000000- ) Screw, Pan, Phl, M3 X 0.50 X 20, 4.8	4
	26	1043573	(00000000- ) Screw, #10- 14 X 0.675, Spl[Shcs,Selftap]	2
	27	1013705	(00000000- ) Plate, Thread, Switch, M3 Nut, 96hr PI	1
	28	1210639	(00000000- ) Switch, 15a, Spdt [Micro, Sim Rlr]	1
	29	1204516	(00000000- ) Bracket, Plug, Charger	1
	30	9012789	(00000000- ) Cover, Console, Afmkt, W/ Label [Na]	1
	30	9012790	(00000000- ) Cover, Console, Afmkt, W/ Label [Jp]	1
	30	9012791	(00000000- ) Cover, Console, Afmkt, W/ Label [Ce]	1
	31	1011735	(00000000- ) Switch, Safety, Shutoff	1
	32	1064038	(00000000- ) Gauge, Hourmeter, 05- 277 Volt, Ac / Dc	1
▽	33	1208644	(00000000- ) Charger, 36vdc, 25a 85- 265vac [Offboard]	1
▲	34	130155	(00000000- ) Connector, Battery, 6ga 50a, Gray[2cont]	1
	35	1073882	(00000000- ) Cord, Power, 16/3, 15a, 15ft Blk [Us]	1
	35	1032820	(00000000- ) Cord, Power, Blk [4.5meter, Uk]	1
	35	1032849	(00000000- ) Cord, Power, Blk [4.5meter, Ce]	1
	35	1026325	(00000000- ) Cord, Power, 1.0mm2/3 Blk[2.5meter, Aus]	1
	35	1026330	(00000000- ) Cord, Power, 1.0mm2 [2.5meter, China]	1
	35	1048304	(00000000- ) Cord, Power [4.5meter, India, S.Africa]	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

CONSOLE GROUP, BASE, DRIVE, ON BOARD CHARGER

355250





## CONSOLE GROUP, BASE, DRIVE, ON BOARD CHARGER

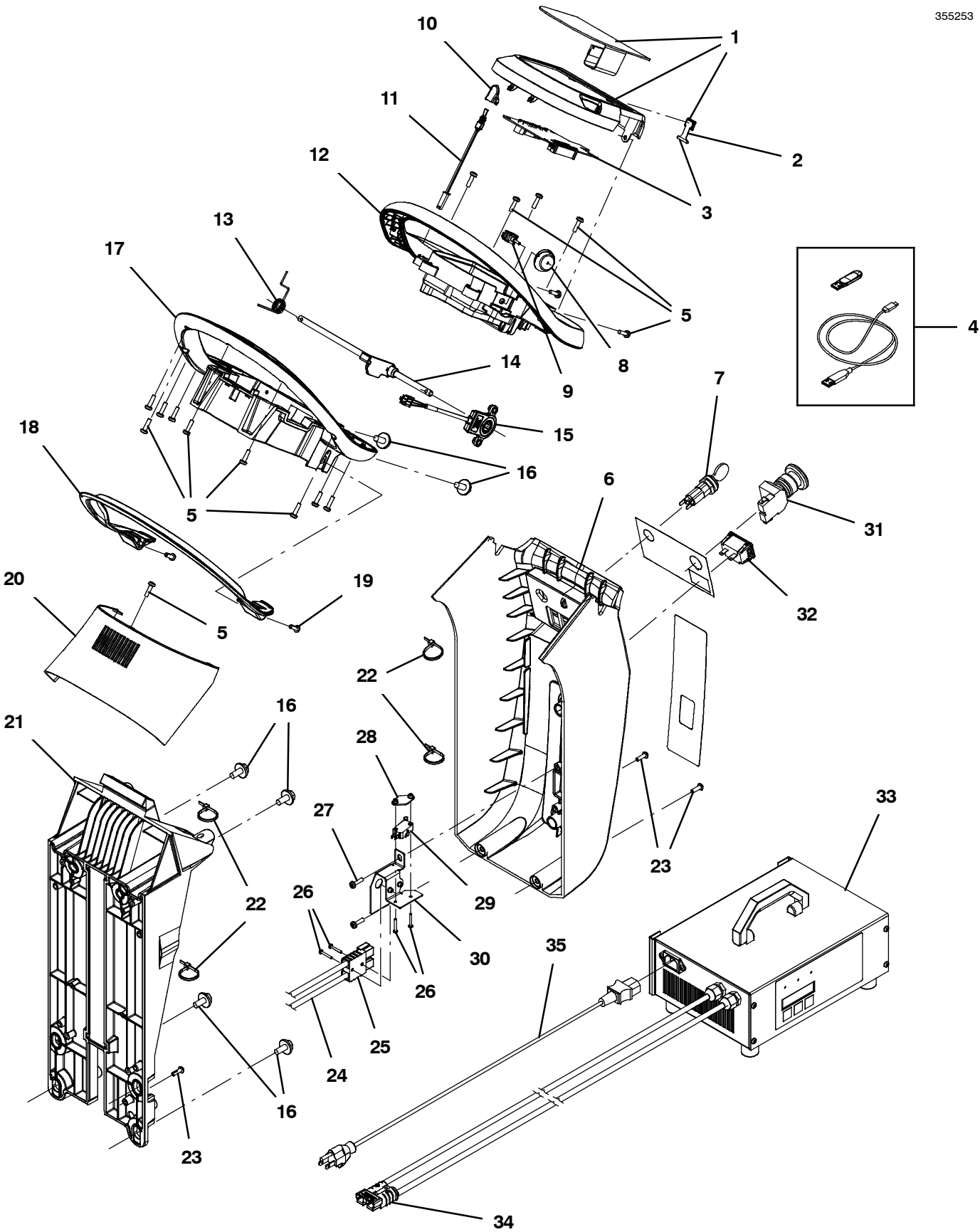
Ref.	Part No.	Serial Number	Description	Qty.
▽	1	9012785	(00000000- ) Bezel Kit, Mechanical, Propel, Afmkt	1
▲	2	1205618	(00000000- ) Cap, Usb	1
▽	3	9012787	(00000000- ) Circuitboard Kit, Console, W/ Usb Cable	1
▲	4	9012788	(00000000- ) Software Kit, Installation, W/Usb Cable	1
	5	1043573	(00000000- ) Screw, #10- 14 X 0.675, Spl[Shcs,Selftap]	16
	6	1205323	(00000000- ) Switch, 0.1a, Spdt [Micro, Straight]	1
▽	7	1011402	(00000000- ) Switch, Key	1
▲		1017696	(00000000- ) Key Set, Replmt [F/ Keyswitch 1011402]	1
	8	1206586	(00000000- ) Dial, Range, Speed	1
	9	1204930	(00000000- ) Potentiometer [100k, 1 Turn, B5/B7]	1
	10	1209730	(00000000- ) Cap, Toggle, Direction	1
	11	1209673	(00000000- ) Switch Assy, Toggle, Direction	1
	12	1203787	(00000000- ) Housing, Handle, Cntrl, Top	1
	13	1205781	(00000000- ) Spring, Return, Bail	1
	14	1205143	(00000000- ) Shaft Asm, Bail, Handle	1
	15	1020341	(00000000- ) Screw, Hex, M8 X 1.25 X 20, Ss, Sems	6
	16	1203795	(00000000- ) Housing, Handle, Cntrl, Bottom	1
	17	1205778	(00000000- ) Handle, Bail [Machined]	1
	18	1205799	(00000000- ) Screw, Btn, Torx, M5 X 0.8 X 16, 8.8, NI	2
	19	1207004	(00000000- ) Cover, Handle, Cntrl	1
	20	1205751	(00000000- ) Frame, Column, Cntrl [Machined]	1
	21	130773	(00000000- ) Tie, Cable, Nyl, 11.0l, .14w, 3.0 Max. D	4
	22	378969	(00000000- ) Clamp, Cable, Stl, 0.56d X 0.38w, 1hole	1
	23	1205799	(00000000- ) Screw, Btn, Torx, M5 X 0.8 X 16, 8.8, NI	5
▽	24	1202585	(00000000- ) Charger, 36vdc, 25a 85- 265vac [On- Board]	1
▲		1212411	(00000000- ) Label, Front Panel Display, Charger [On- Board]	1
▲	25	130155	(00000000- ) Connector, Battery, 6ga 50a, Gray[2cont]	1
	26	1073882	(00000000- ) Cord, Power, 16/3, 15a, 15ft Blk [Us]	1
	26	1032820	(00000000- ) Cord, Power, Blk [4.5meter, Uk]	1
	26	1032849	(00000000- ) Cord, Power, Blk [4.5meter, Ce]	1
	26	1026325	(00000000- ) Cord, Power, 1.0mm2/3 Blk[2.5meter, Aus]	1
	26	1026330	(00000000- ) Cord, Power, 1.0mm2 [2.5meter, China]	1
	26	1048304	(00000000- ) Cord, Power [4.5meter, India, S.Africa]	1
	27	1024965	(00000000- ) Bolt, Shld, 08mmd X 030mm, M06 X 1.0	2
	28	611311	(00000000- ) Spring, Cmpr, 0.40od .05wir 00.5l, Pl,Mw	2
	29	1207290	(00000000- ) Cover, Charger	1
	30	9012789	(00000000- ) Cover, Console, Afmkt, W/ Label [Na]	1
	30	9012790	(00000000- ) Cover, Console, Afmkt, W/ Label [Jp]	1
	30	9012791	(00000000- ) Cover, Console, Afmkt, W/ Label [Ce]	1
	31	1011735	(00000000- ) Switch, Safety, Shutoff	1
	32	1064038	(00000000- ) Gauge, Hourmeter, 05- 277 Volt, Ac / Dc	1
	33	1205496	(00000000- ) Hook, Cord	2

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

CONSOLE GROUP, POWER, DRIVE, OFF BOARD CHARGER

355253



## CONSOLE GROUP, POWER, DRIVE, OFF BOARD CHARGER

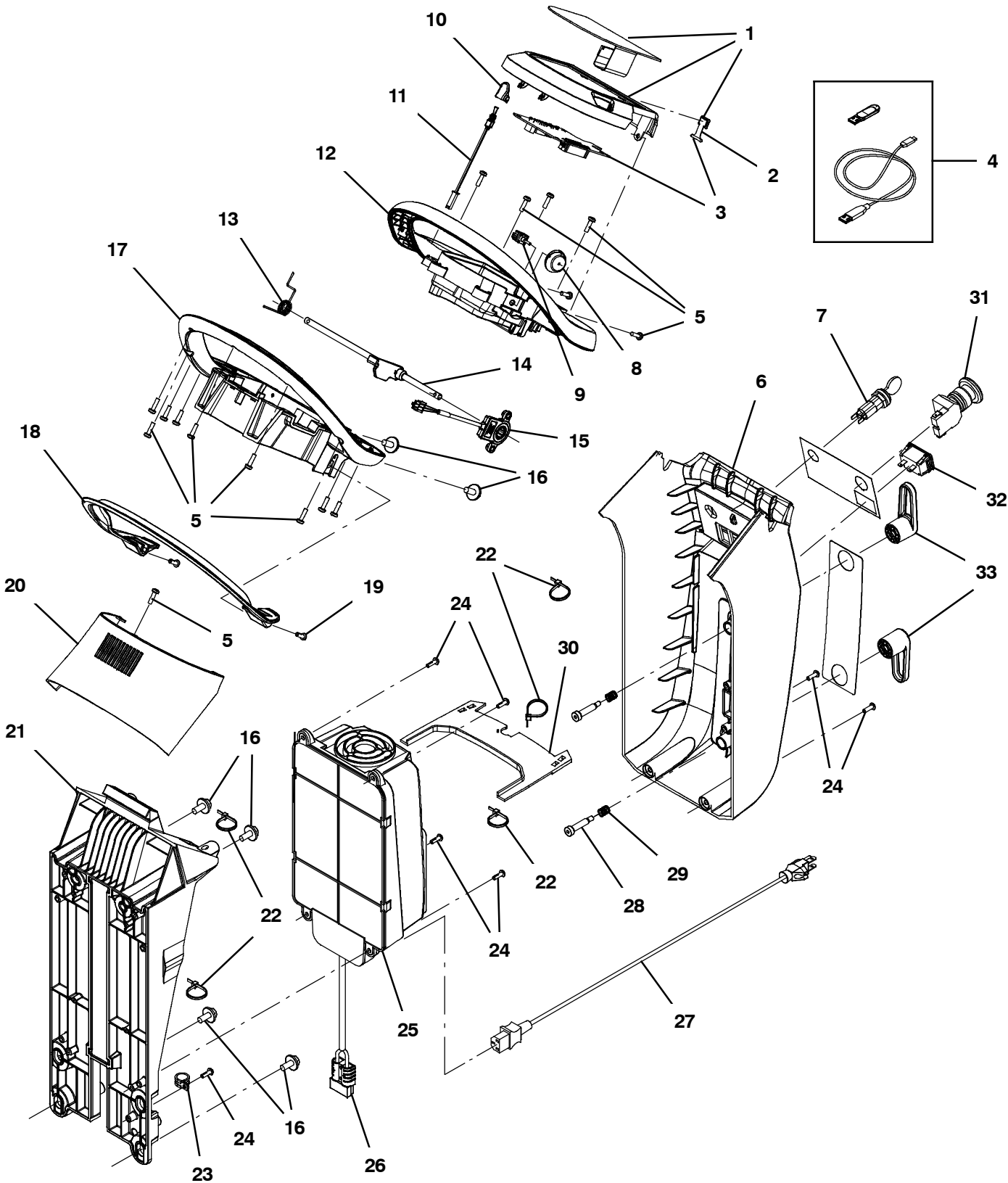
	Ref.	Part No.	Serial Number	Description	Qty.
▽	1	9012786	(00000000-	) Bezel Kit, Actuator, Propel, Afmkt	1
▲	2	1205618	(00000000-	) Cap, Usb	1
▽	3	9012787	(00000000-	) Circuitboard Kit, Console, W/ Usb Cable	1
▲	4	9012788	(00000000-	) Software Kit, Installation, W/Usb Cable	1
	5	1043573	(00000000-	) Screw, #10- 14 X 0.675, Spl[Shcs,Selftap]	16
	6	9012789	(00000000-	) Cover, Console, Afmkt, W/ Label [Na]	1
	6	9012790	(00000000-	) Cover, Console, Afmkt, W/ Label [Jp]	1
	6	9012791	(00000000-	) Cover, Console, Afmkt, W/ Label [Ce]	1
▽	7	1011402	(00000000-	) Switch, Key	1
▲		1017696	(00000000-	) Key Set, Replmt [F/ Keyswitch 1011402]	1
	8	1206586	(00000000-	) Dial, Range, Speed	1
	9	1204930	(00000000-	) Potentiometer [100k, 1 Turn, B5/B7]	1
	10	1209730	(00000000-	) Cap, Toggle, Direction	1
	11	1209673	(00000000-	) Switch Assy, Toggle, Direction	1
	12	1203787	(00000000-	) Housing, Handle, Cntrl, Top	1
	13	1205781	(00000000-	) Spring, Return, Bail	1
	14	1205143	(00000000-	) Shaft Asm, Bail, Handle	1
	15	1205127	(00000000-	) Sensor, Rotary [B5/B7, Bail Sensor]	1
	16	1020341	(00000000-	) Screw, Hex, M8 X 1.25 X 20, Ss, Sems	6
	17	1203795	(00000000-	) Housing, Handle, Cntrl, Bottom	1
	18	1205778	(00000000-	) Handle, Bail [Machined]	1
	19	1205799	(00000000-	) Screw, Btn, Torx, M5 X 0.8 X 16, 8.8, NI	2
	20	1207004	(00000000-	) Cover, Handle, Cntrl	1
	21	1205751	(00000000-	) Frame, Column, Cntrl [Machined]	1
	22	130773	(00000000-	) Tie, Cable, Nyl, 11.0l, .14w, 3.0 Max. D	4
	23	1205799	(00000000-	) Screw, Btn, Torx, M5 X 0.8 X 16, 8.8, NI	3
▽	24	1072939	(00000000-	) Cable, Assy [B7/B5, Ground]	1
▲	25	605387	(00000000-	) Connector, Anderson, 050a, Red [W/O Con]	1
	26	06922	(00000000-	) Screw, Pan, Phl, M3 X 0.50 X 20, 4.8	4
	27	1043573	(00000000-	) Screw, #10- 14 X 0.675, Spl[Shcs,Selftap]	2
	28	1013705	(00000000-	) Plate, Thread, Switch, M3 Nut, 96hr PI	1
	29	1210639	(00000000-	) Switch, 15a, Spdt [Micro, Sim Rlr]	1
	30	1204516	(00000000-	) Bracket, Plug, Charger	1
	31	1011735	(00000000-	) Switch, Safety, Shutoff	1
	32	1064038	(00000000-	) Gauge, Hourmeter, 05- 277 Volt, Ac / Dc	1
▽	33	1208644	(00000000-	) Charger, 36vdc, 25a 85- 265vac [Offboard]	1
▲	34	130155	(00000000-	) Connector, Battery, 6ga 50a, Gray[2cont]	1
	35	1073882	(00000000-	) Cord, Power, 16/3, 15a, 15ft Blk [Us]	1
	35	1032820	(00000000-	) Cord, Power, Blk [4.5meter, Uk]	1
	35	1032849	(00000000-	) Cord, Power, Blk [4.5meter, Ce]	1
	35	1026325	(00000000-	) Cord, Power, 1.0mm2/3 Blk[2.5meter, Aus]	1
	35	1026330	(00000000-	) Cord, Power, 1.0mm2 [2.5meter, China]	1
	35	1048304	(00000000-	) Cord, Power [4.5meter, India, S.Africa]	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

CONSOLE GROUP, POWER, DRIVE, ON BOARD CHARGER

355254



## CONSOLE GROUP, POWER, DRIVE, ON BOARD CHARGER

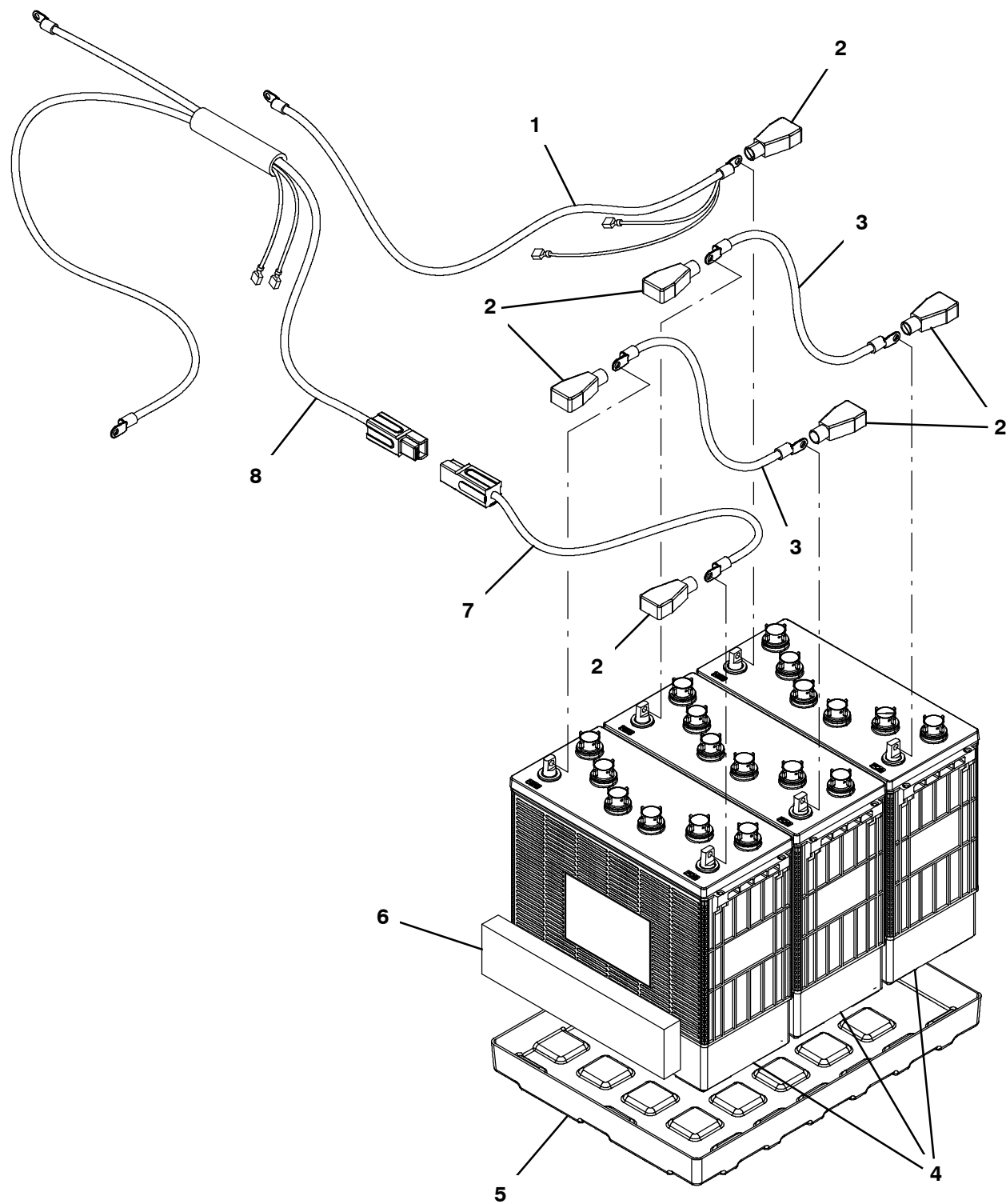
	Ref.	Part No.	Serial Number	Description	Qty.
▽	1	9012786	(00000000-	) Bezel Kit, Actuator, Propel, Afmkt	1
▲	2	1205618	(00000000-	) Cap, Usb	1
▽	3	9012787	(00000000-	) Circuitboard Kit, Console, W/ Usb Cable	1
▲	4	9012788	(00000000-	) Software Kit, Installation, W/Usb Cable	1
	5	1043573	(00000000-	) Screw, #10- 14 X 0.675, Spl[Shcs,Selftap]	16
	6	9012789	(00000000-	) Cover, Console, Afmkt, W/ Label [Na]	1
	6	9012790	(00000000-	) Cover, Console, Afmkt, W/ Label [Jp]	1
	6	9012791	(00000000-	) Cover, Console, Afmkt, W/ Label [Ce]	1
▽	7	1011402	(00000000-	) Switch, Key	1
▲		1017696	(00000000-	) Key Set, Replmt [F/ Keyswitch 1011402]	1
	8	1206586	(00000000-	) Dial, Range, Speed	1
	9	1204930	(00000000-	) Potentiometer [100k, 1 Turn, B5/B7]	1
	10	1209730	(00000000-	) Cap, Toggle, Direction	1
	11	1209673	(00000000-	) Switch Assy, Toggle, Direction	1
	12	1203787	(00000000-	) Housing, Handle, Cntrl, Top	1
	13	1205781	(00000000-	) Spring, Return, Bail	1
	14	1205143	(00000000-	) Shaft Asm, Bail, Handle	1
	15	1205127	(00000000-	) Sensor, Rotary [B5/B7, Bail Sensor]	1
	16	1020341	(00000000-	) Screw, Hex, M8 X 1.25 X 20, Ss, Sems	6
	17	1203795	(00000000-	) Housing, Handle, Cntrl, Bottom	1
	18	1205778	(00000000-	) Handle, Bail [Machined]	1
	19	1205799	(00000000-	) Screw, Btn, Torx, M5 X 0.8 X 16, 8.8, NI	2
	20	1207004	(00000000-	) Cover, Handle, Cntrl	1
	21	1205751	(00000000-	) Frame, Column, Cntrl [Machined]	1
	22	130773	(00000000-	) Tie, Cable, Nyl, 11.0l, .14w, 3.0 Max. D	4
	23	378969	(00000000-	) Clamp, Cable, Stl, 0.56d X 0.38w, 1hole	1
	24	1205799	(00000000-	) Screw, Btn, Torx, M5 X 0.8 X 16, 8.8, NI	5
▽	25	1202585	(00000000-	) Charger, 36vdc, 25a 85- 265vac [On- Board]	1
▲		1212411	(00000000-	) Label, Front Panel Display, Charger [On- Board]	1
▲	26	130155	(00000000-	) Connector, Battery, 6ga 50a, Gray[2cont]	1
	27	1073882	(00000000-	) Cord, Power, 16/3, 15a, 15ft Blk [Us]	1
	27	1032820	(00000000-	) Cord, Power, Blk [4.5meter, Uk]	1
	27	1032849	(00000000-	) Cord, Power, Blk [4.5meter, Ce]	1
	27	1026325	(00000000-	) Cord, Power, 1.0mm2/3 Blk[2.5meter, Aus]	1
	27	1026330	(00000000-	) Cord, Power, 1.0mm2 [2.5meter, China]	1
	27	1048304	(00000000-	) Cord, Power [4.5meter, India, S.Africa]	1
	28	1024965	(00000000-	) Bolt, Shld, 08mmd X 030mm, M06 X 1.0	2
	29	611311	(00000000-	) Spring, Cmpr, 0.40od .05wir 00.5l, Pl,Mw	2
	30	1207290	(00000000-	) Cover, Charger	1
	31	1011735	(00000000-	) Switch, Safety, Shutoff	1
	32	1064038	(00000000-	) Gauge, Hourmeter, 05- 277 Volt, Ac / Dc	1
	33	1205496	(00000000-	) Hook, Cord	2

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

BATTERY GROUP, 185AH WET LEAD ACID

355231

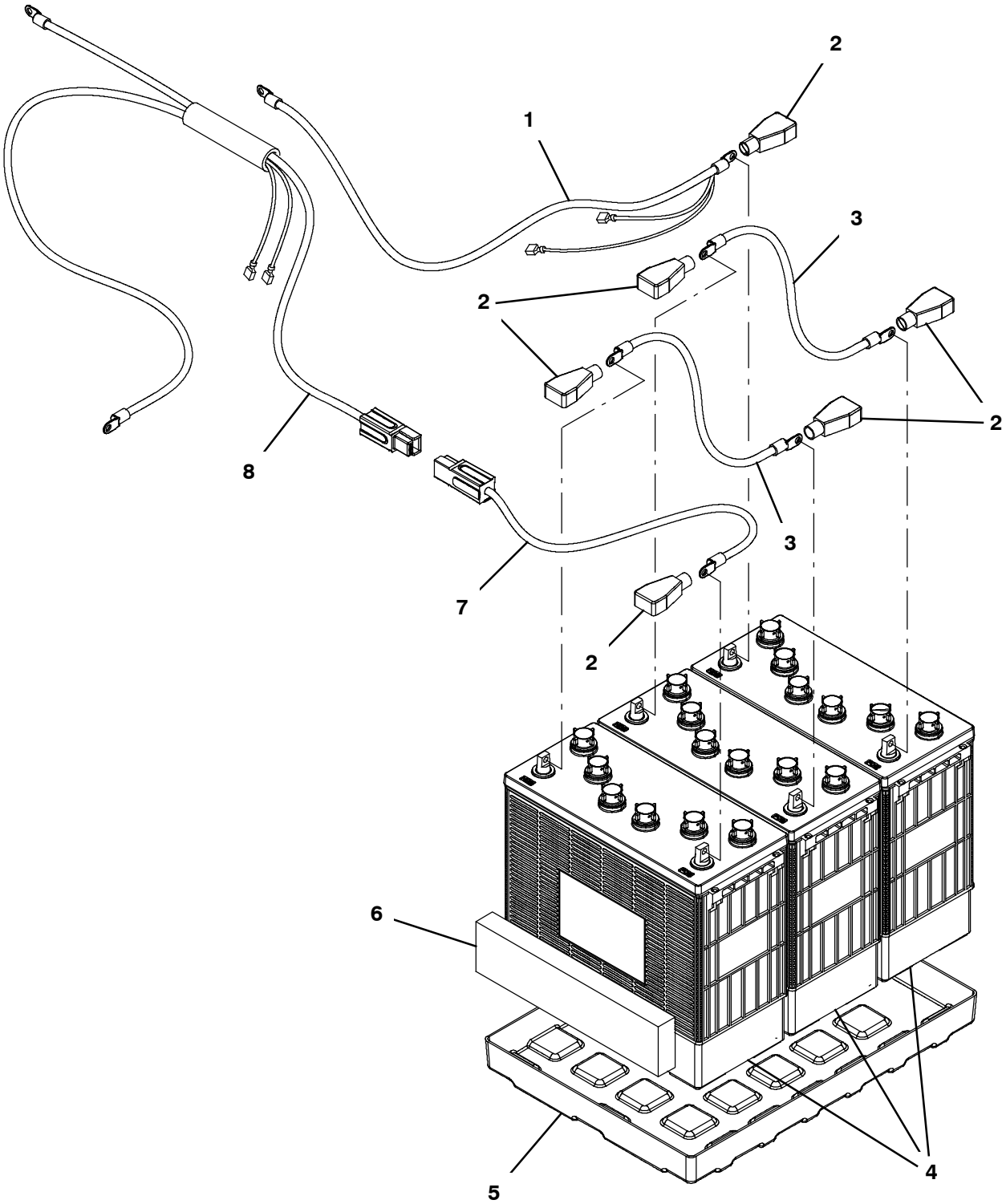


**BATTERY GROUP, 185AH WET LEAD ACID**

Ref.	Part No.	Serial Number	Description	Qty.
1	1072939	(00000000-	) Cable, Assy [B7/B5, Ground]	1
2	1205540	(00000000-	) Boot, Terminal, Battery, 1/0- 2/0ga, Blk	6
3	1072368	(00000000-	) Cable, 02ga 13.3l Red [M8 Ring/M8 Ring]	2
4	1206317	(00000000-	) Battery, Wet, 12vdc 185ah C/20, W/Ca	3
5	1203979	(00000000-	) Tray, Battery [B5]	1
6	630375	(00000000-	) Spacer, Battery, Foam, 1.25 X 3.3 X 13.7	1
7	1072365	(00000000-	) Cable, 02ga 21.6l Red [M8 Ring / And.]	1
8	1072935	(00000000-	) Cable, Assy, Fuse [B5, 100a, Propel]	1

BATTERY GROUP, 225AH WET LEAD ACID

355232





## BATTERY GROUP, 225AH WET LEAD ACID

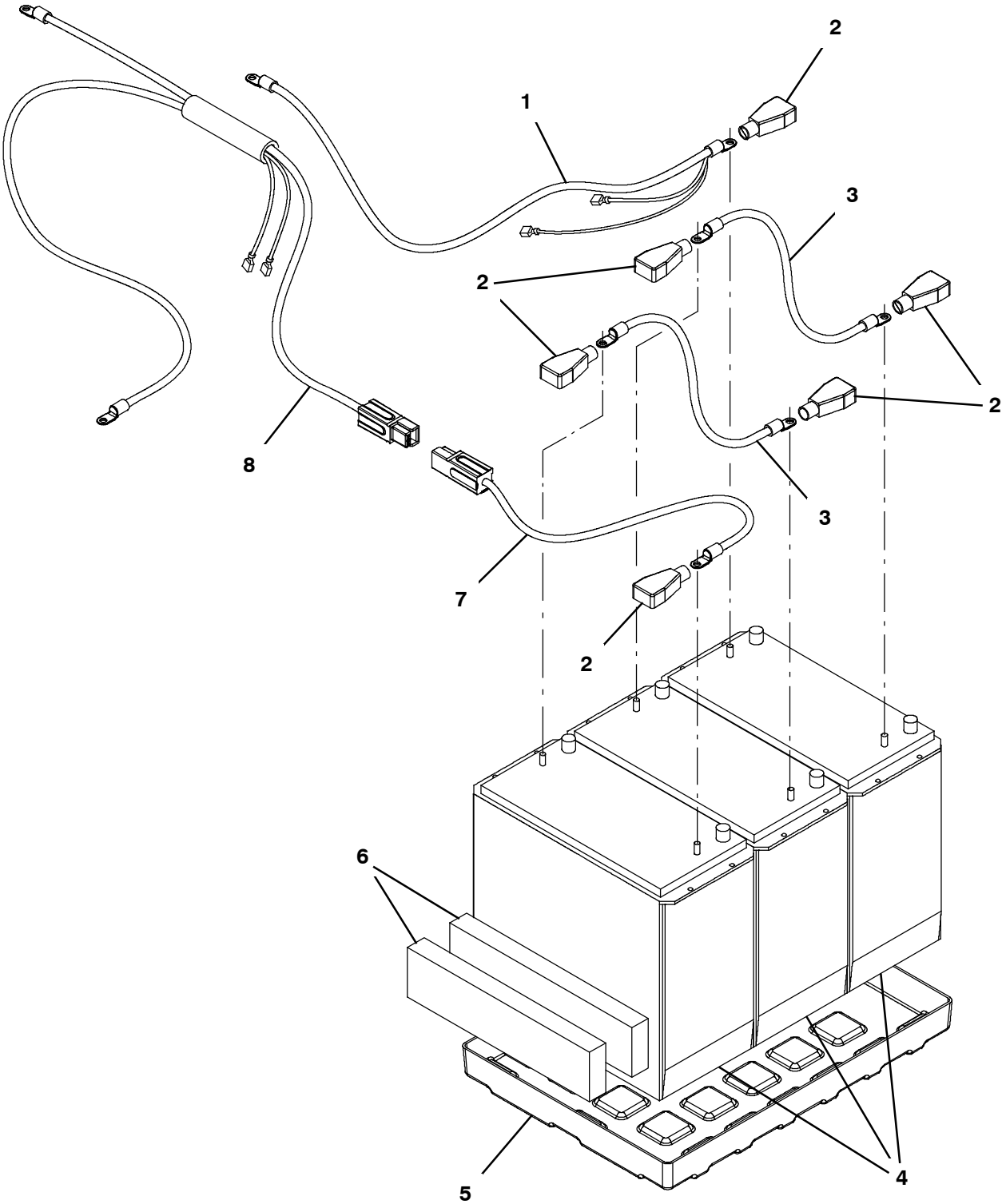
Ref.	Part No.	Serial Number	Description	Qty.
1	1072939	(00000000-	) Cable, Assy [B7/B5, Ground]	1
2	1205540	(00000000-	) Boot, Terminal, Battery, 1/0- 2/0ga, Blk	6
3	1072368	(00000000-	) Cable, 02ga 13.3l Red [M8 Ring/M8 Ring]	2
4	1070591	(00000000-	) Battery, Wet, 12vdc 0225ah, W/ Carton	3
5	1203979	(00000000-	) Tray, Battery [B5]	1
6	630375	(00000000-	) Spacer, Battery, Foam, 1.25 X 3.3 X 13.7	1
7	1072365	(00000000-	) Cable, 02ga 21.6l Red [M8 Ring / And.]	1
8	1072935	(00000000-	) Cable, Assy, Fuse [B5, 100a, Propel]	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

BATTERY GROUP, 234AH AGM SEALED

355233



## BATTERY GROUP, 234AH AGM SEALED

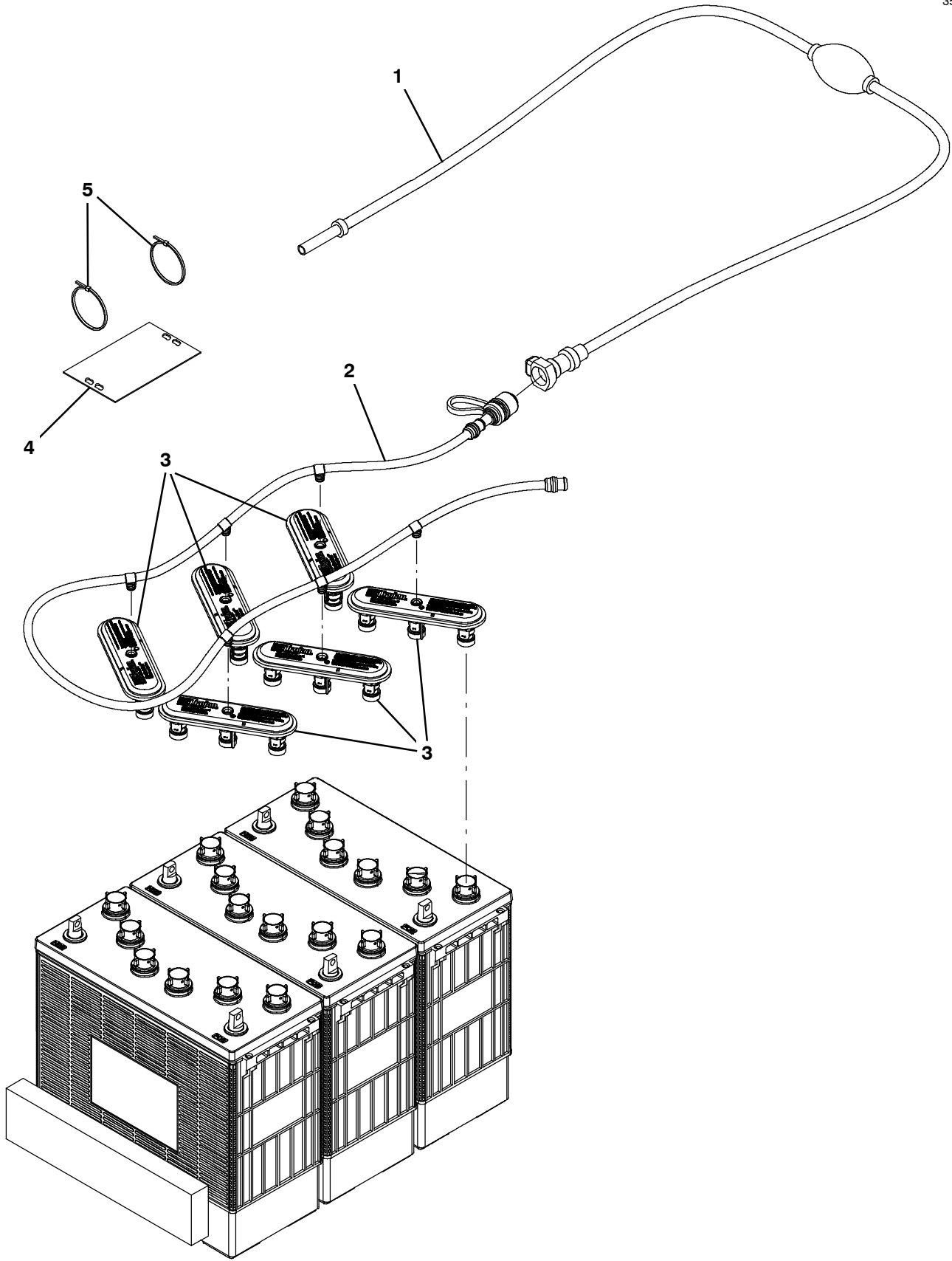
Ref.	Part No.	Serial Number	Description	Qty.
1	1072939	(00000000-	) Cable, Assy [B7/B5, Ground]	1
2	1205540	(00000000-	) Boot, Terminal, Battery, 1/0- 2/0ga, Blk	6
3	1072368	(00000000-	) Cable, 02ga 13.3l Red [M8 Ring/M8 Ring]	2
4	1053427	(00000000-	) Battery, 12vdc 0234ah Agm	3
5	1203979	(00000000-	) Tray, Battery [B5]	1
6	630375	(00000000-	) Spacer, Battery, Foam, 1.25 X 3.3 X 13.7	2
7	1072365	(00000000-	) Cable, 02ga 21.6l Red [M8 Ring / And.]	1
8	1072935	(00000000-	) Cable, Assy, Fuse [B5, 100a, Propel]	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

HYDROLINK® BATTERY WATERING SYSTEM KIT

355255



## HYDROLINK® BATTERY WATERING SYSTEM KIT

	Ref.	Part No.	Serial Number	Description	Qty.
▽		9010301*	(00000000-	) Pump Kit, Fill, Battery, 36vdc, Ci[Trojan]	1
▲	1	1058939	(00000000-	) Pump Kit, Fill, Battery	1
▲	2	1201997	(00000000-	) Tube, Water, Battery, 36vdc [Trojan]	1
▲	3	1204142	(00000000-	) Cap, Fill, Battery [Trojan]	6
▲	4	1071084	(00000000-	) Label, Tag, Battery [Hydrolink Watering]	1
▲	5	130773	(00000000-	) Tie, Cable, Nyl, 11.0l, .14w, 3.0 Max. D	2

▽ ASSEMBLY

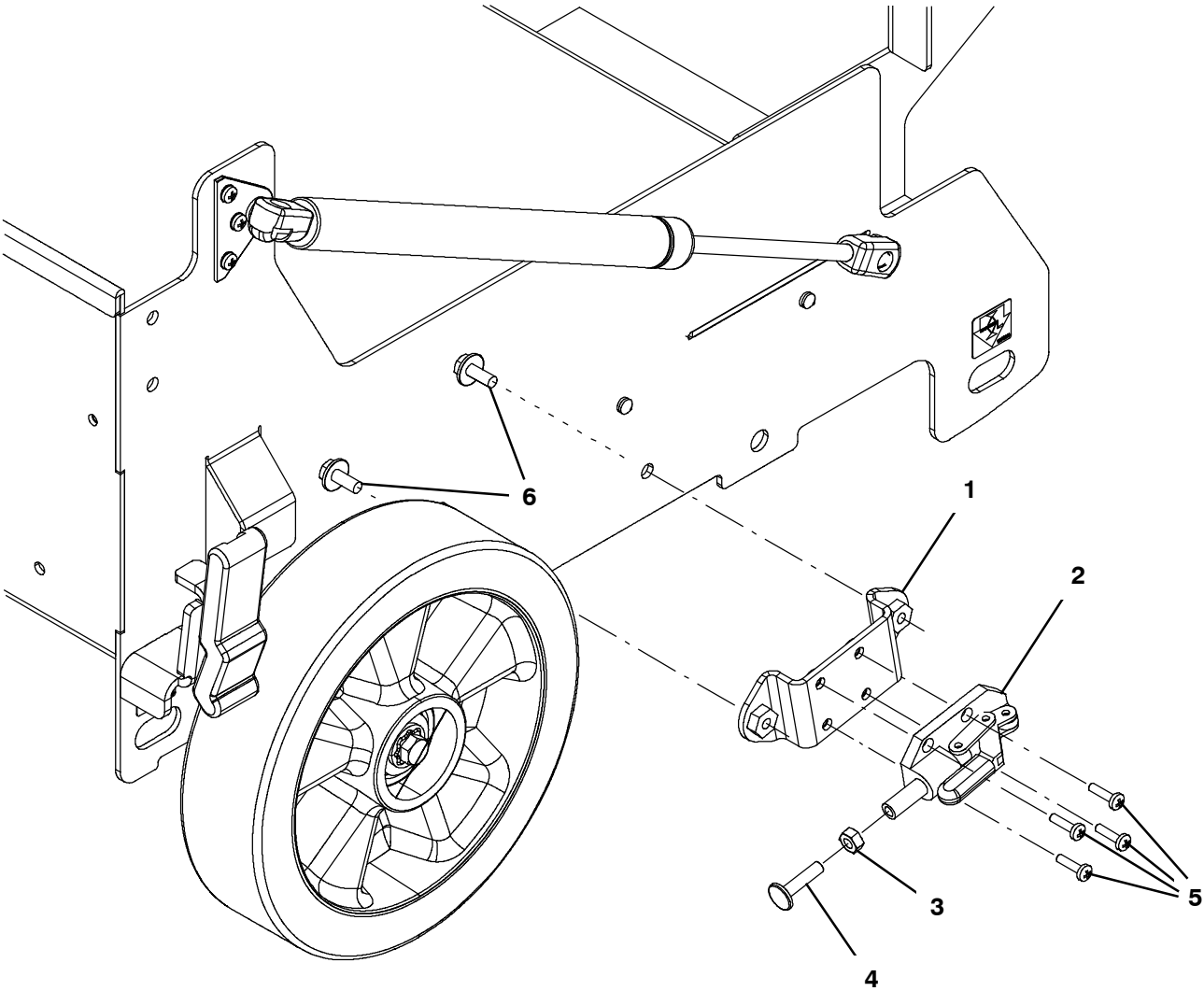
▲ INCLUDED IN ASSEMBLY

\*THIS KIT IS INTENDED FOR USE WITH TROJAN® LEAD ACID BATTERIES ONLY.

HYDROLINK® IS A REGISTERED TRADEMARK OF TROJAN® BATTERY COMPANY.

PARKING BRAKE GROUP

355228



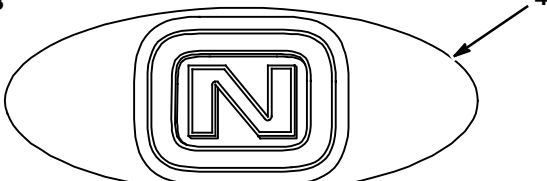
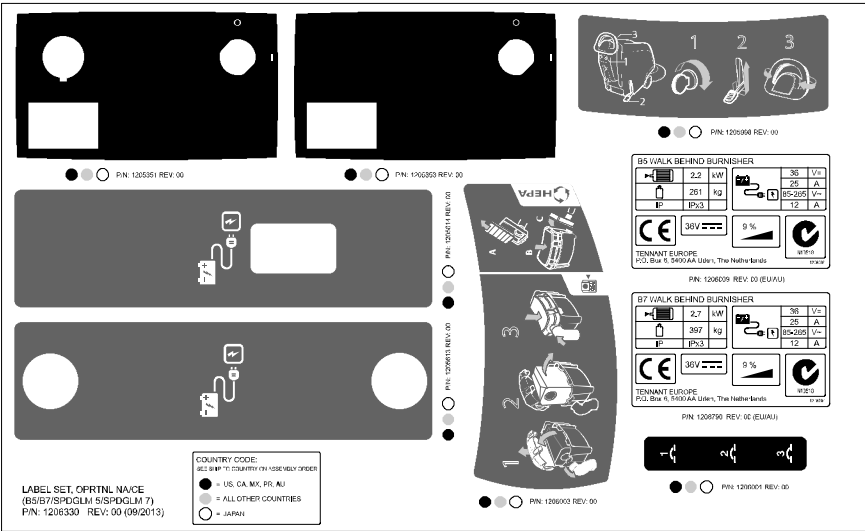
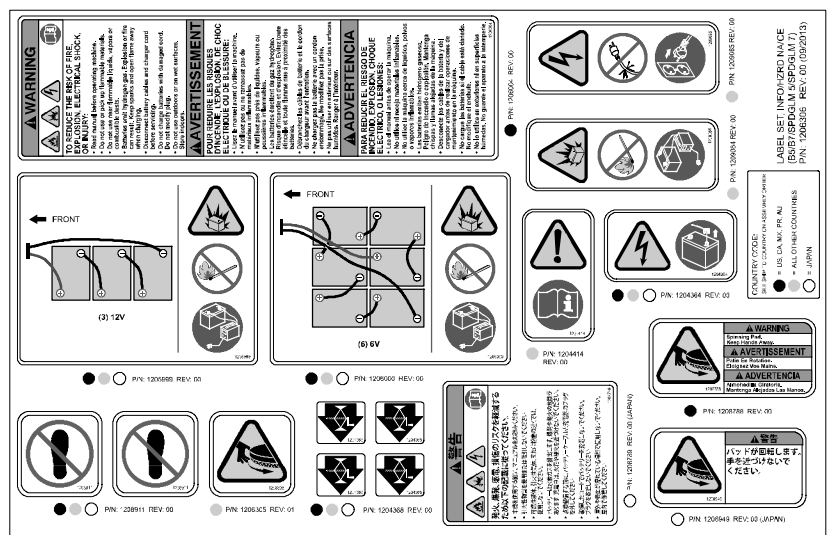
## PARKING BRAKE GROUP

	Ref.	Part No.	Serial Number	Description	Qty.
▽		9012792	(00000000-	) Brake Kit, Parking, Afmkt, W/ Hdwr	1
▲	1	1206560	(00000000-	) Brake, Wldt	1
▲	2	1013718	(00000000-	) Clamp, Brake, Parking [T3]	1
▲	3	07785	(00000000-	) Nut, Hex, Std, M6 X 1.00, Ss	1
▲	4	1017416	(00000000-	) Screw, Weld, M6 X 1.00 X 25, Thru, Ss	1
▲	5	24265	(00000000-	) Screw, Pan, Phl, M4 X 0.70 X 16, Ss	4
▲	6	1034731	(00000000-	) Screw, Hex, M6 X 1.00 X 16, Ss, Sems	2

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

LABEL GROUP



Ref.	Part No.	Serial Number	Description	Qty.
1	1206306	(00000000-	) Label, Set, Info/Hzrd [Na/Ce]	1
2	1206330	(00000000-	) Label, Set, Operational	1
3	1035550	(00000000-	) Label, Model [Nobles Speedgleam]	2
4	1206159	(00000000-	) Label, Logo, 05.5l [Nobles]	1



## DOCUMENT GROUP

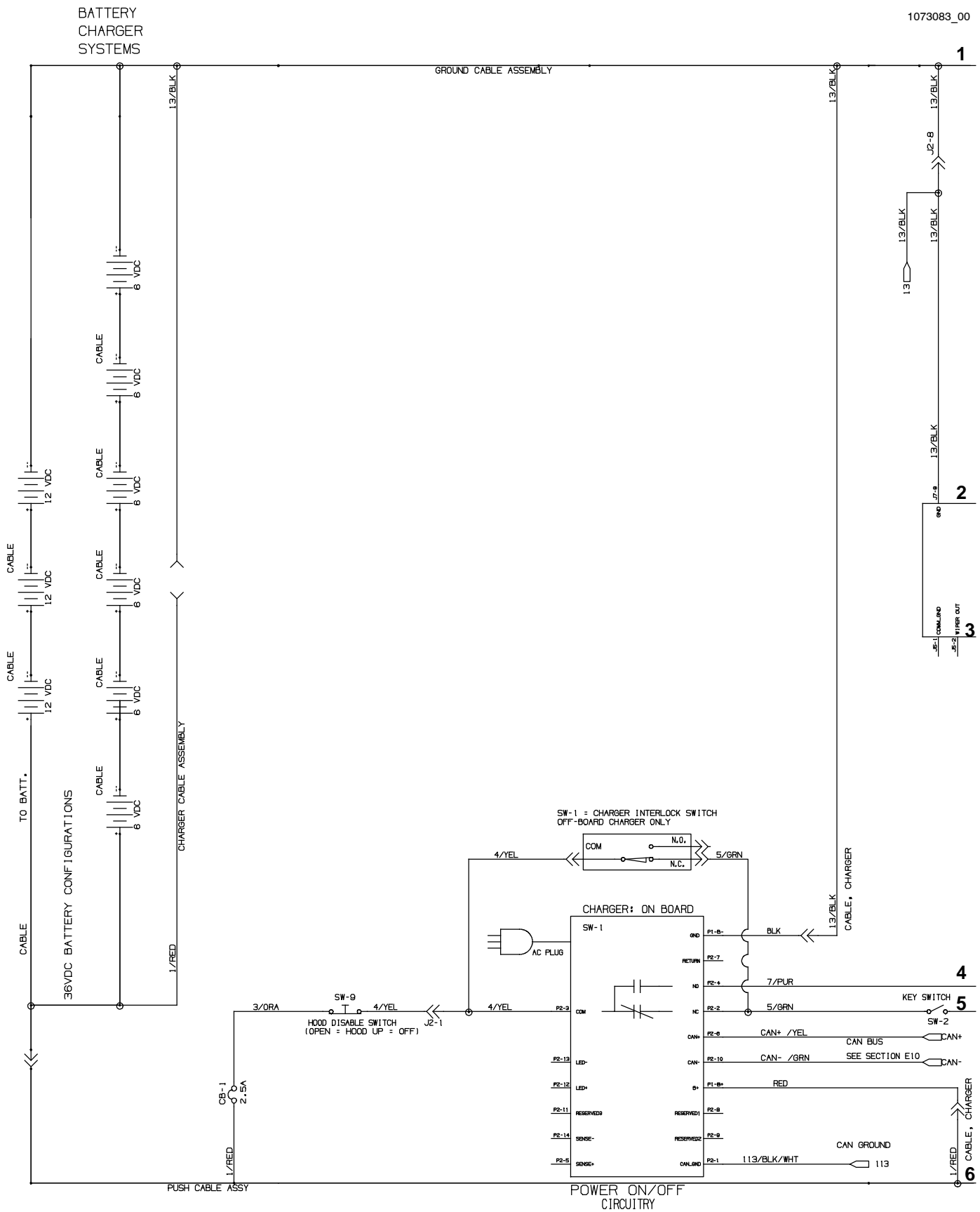
Ref.	Part No.	Serial Number	Description	Qty.
1	9011614	(00000000-	) Manual, Parts [Sg5]	1
2	9011478	(00000000-	) Manual, Service [B5/7, Sg5/7]	1
3	9011615	(00000000-	) Manual, Oprtr, En [Sg5/ Sg7]	1
3	9011617	(00000000-	) Manual, Oprtr, Es [Sg5/ Sg7]	1
3	9011618	(00000000-	) Manual, Oprtr, Fr [Sg5/ Sg7]	1
4	9011616	(00000000-	) Instr, Wall Chart [Sg5/Sg7]	1
5	1206167	(00000000-	) Guide, Onboard Use And Care	1



To view, print, order, download the latest Parts manual, other language Operator manuals, and Use and Care Guides (wall charts), visit:

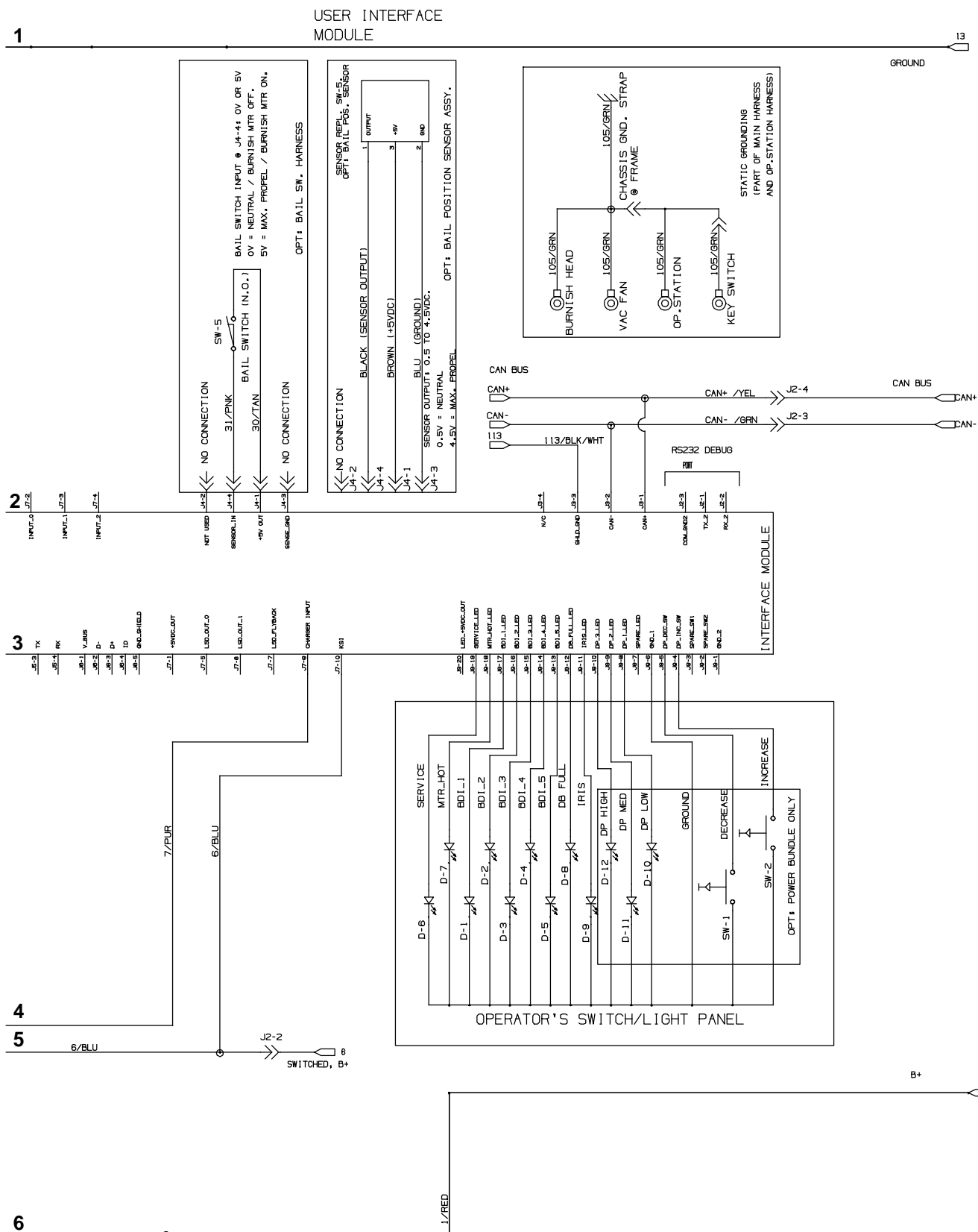
[www.nobles.com/manual](http://www.nobles.com/manual)

## Nobles SpeedGleam® 5 (01-2014)



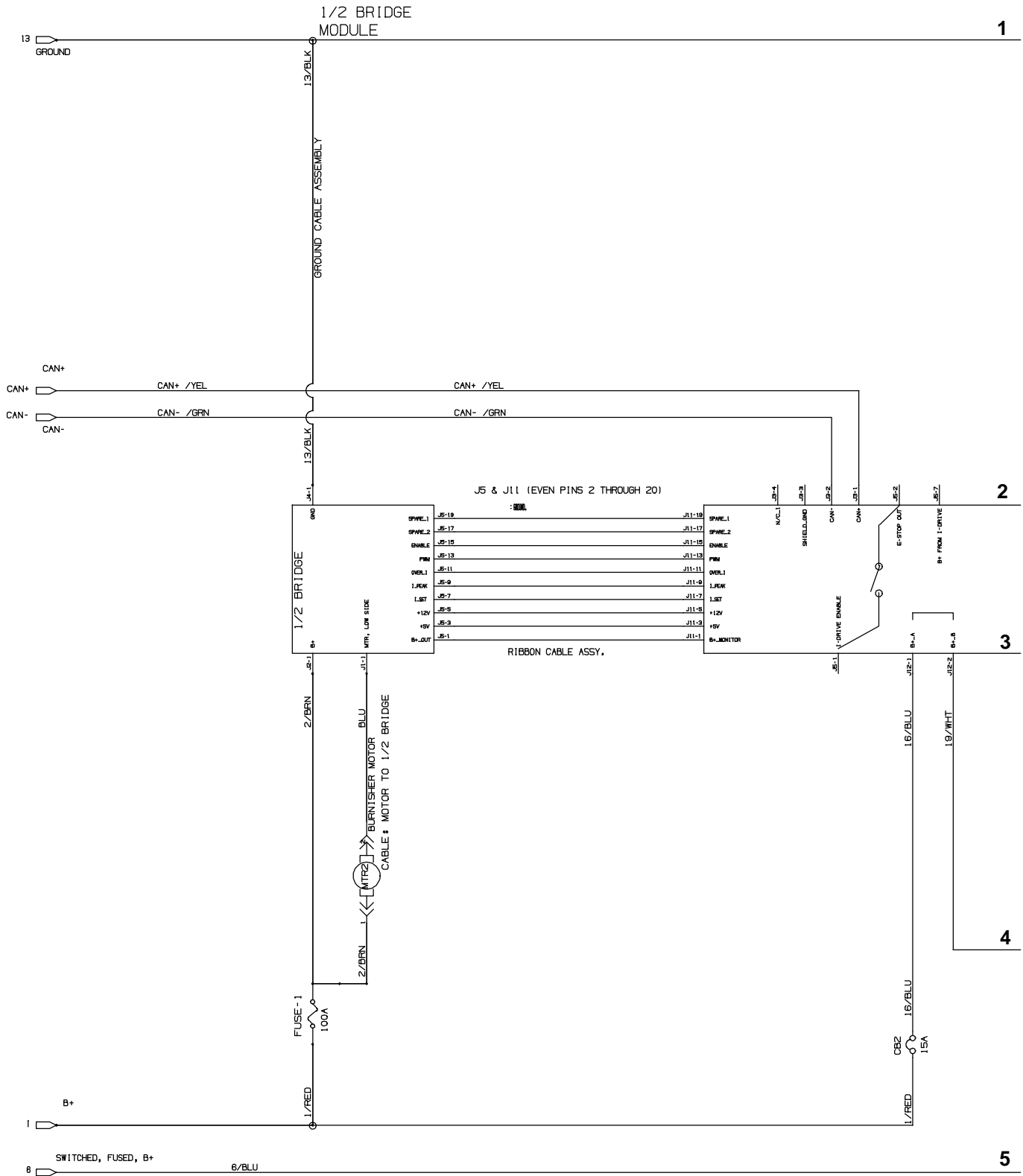
## ELECTRICAL DIAGRAM, PUSH MODEL (Page 2 of 4)

1073083 00



## ELECTRICAL DIAGRAM, PUSH MODEL (Page 3 of 4)

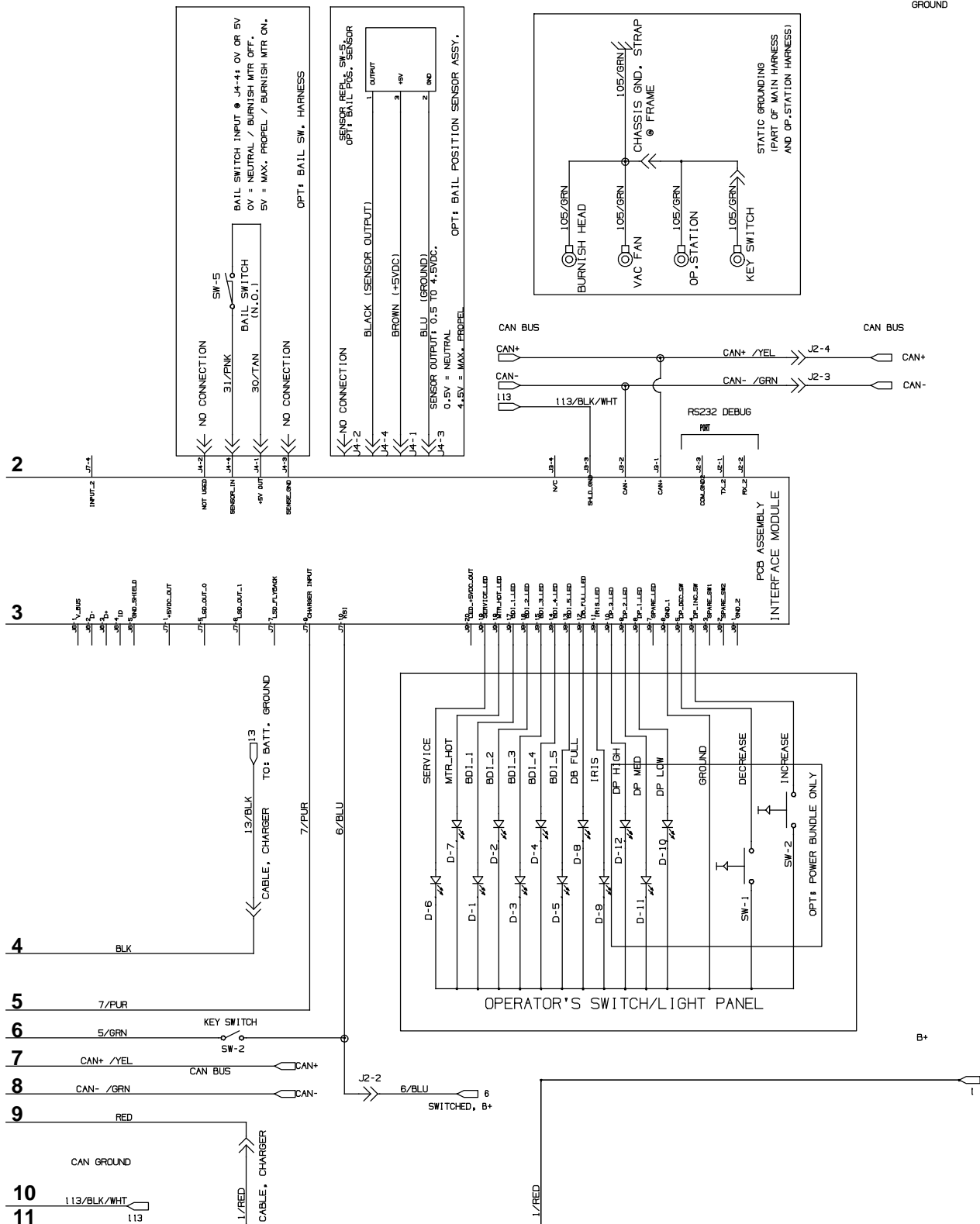
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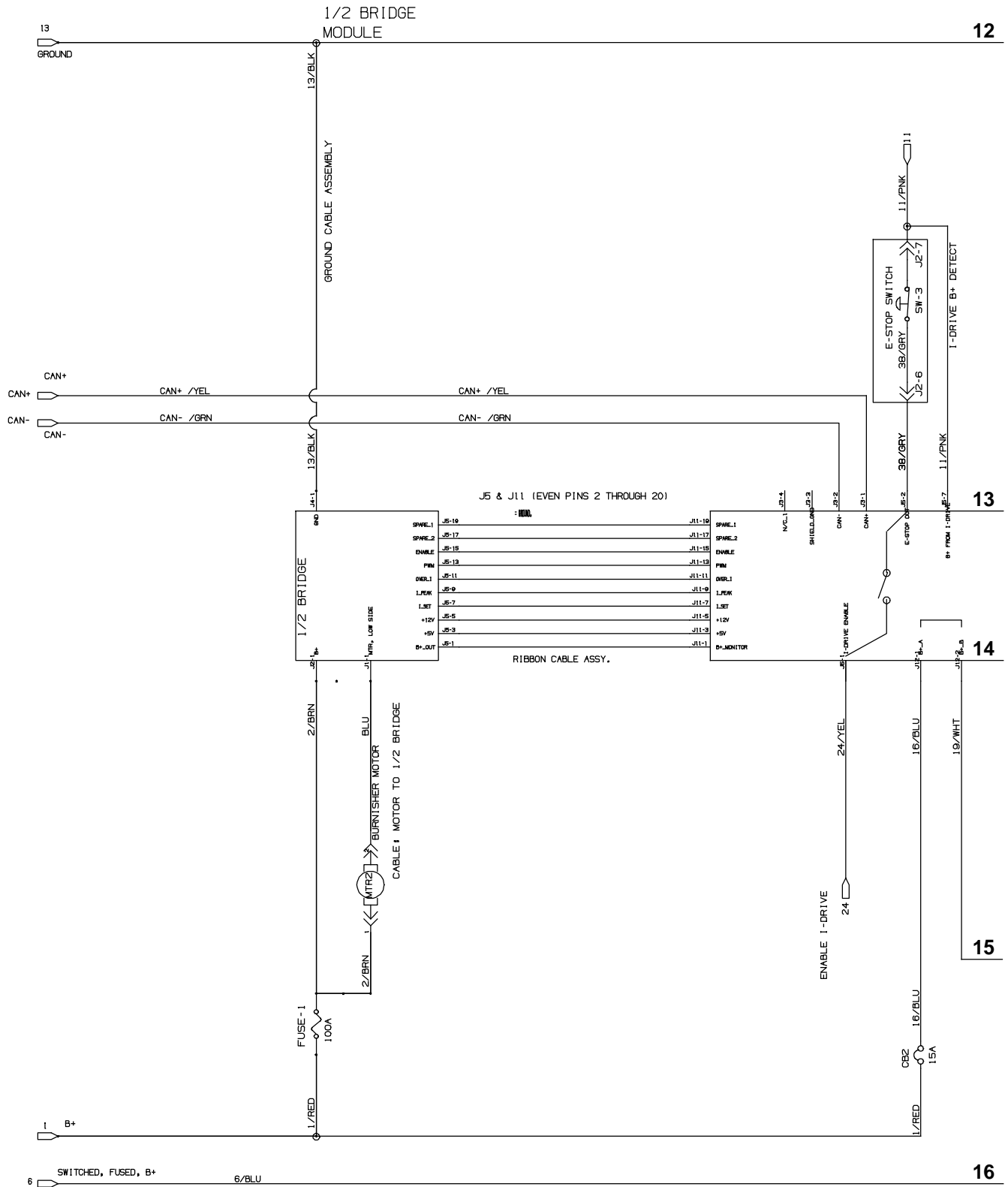


## 1



## ELECTRICAL DIAGRAM, DRIVE MODEL (Page 3 of 4)

1073082\_00







WIRE HARNESS, MAIN, PUSH MODEL

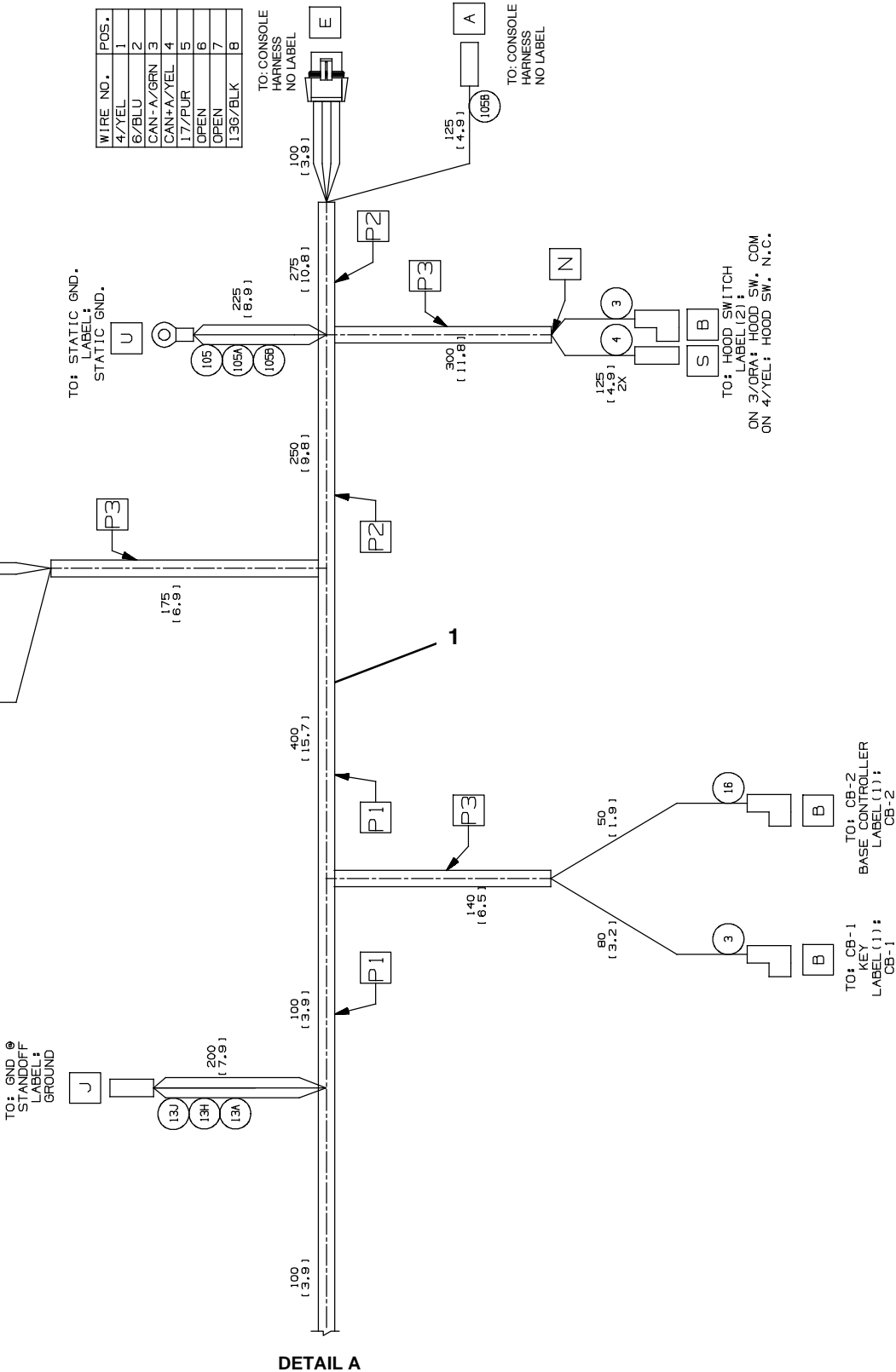
355256

22506

TO: VACUUM FAN  
LABEL: VAC FAN

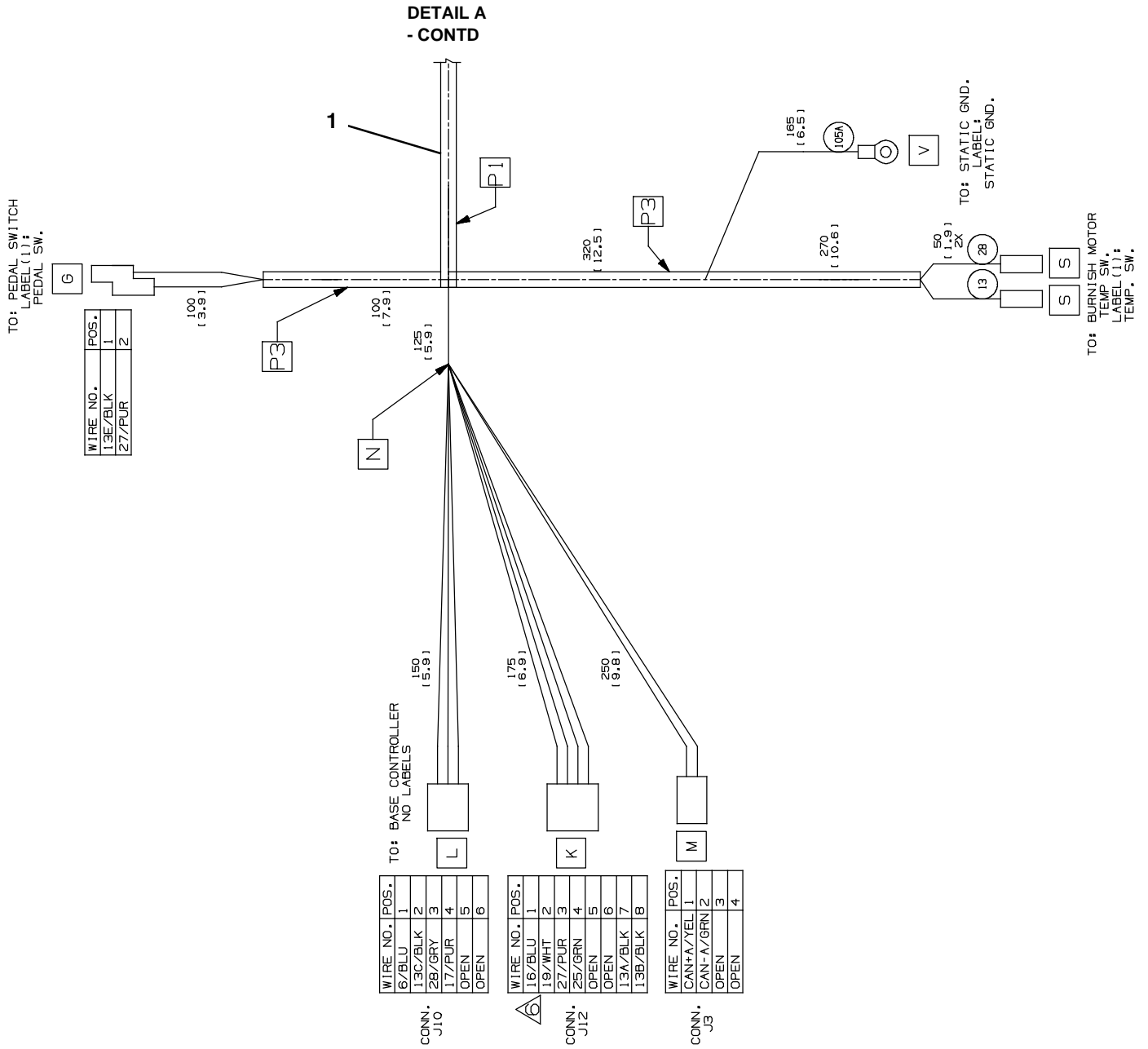
WIRE NO.	POS.
19/WHT	1
25/GRN	2

TO: STATIC GND.  
LABEL:  
STATIC GND.



## WIRE HARNESS, MAIN, PUSH MODEL - CONT'D

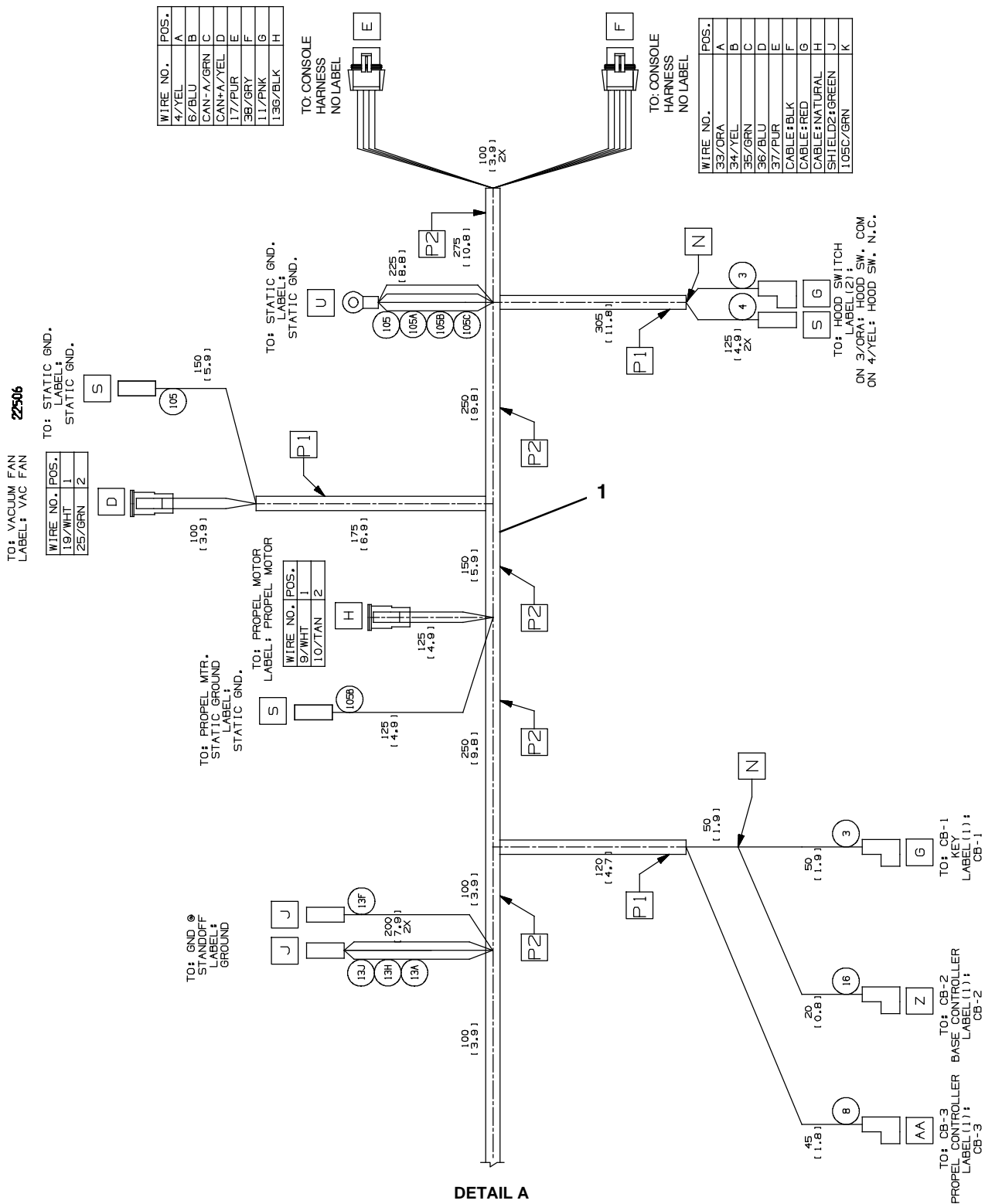
355256



Ref.	Part No.	Serial Number	Description	Qty.
1	1072291	(00000000-	) Harness, Main, Ele [Volga, B5, Push]	1

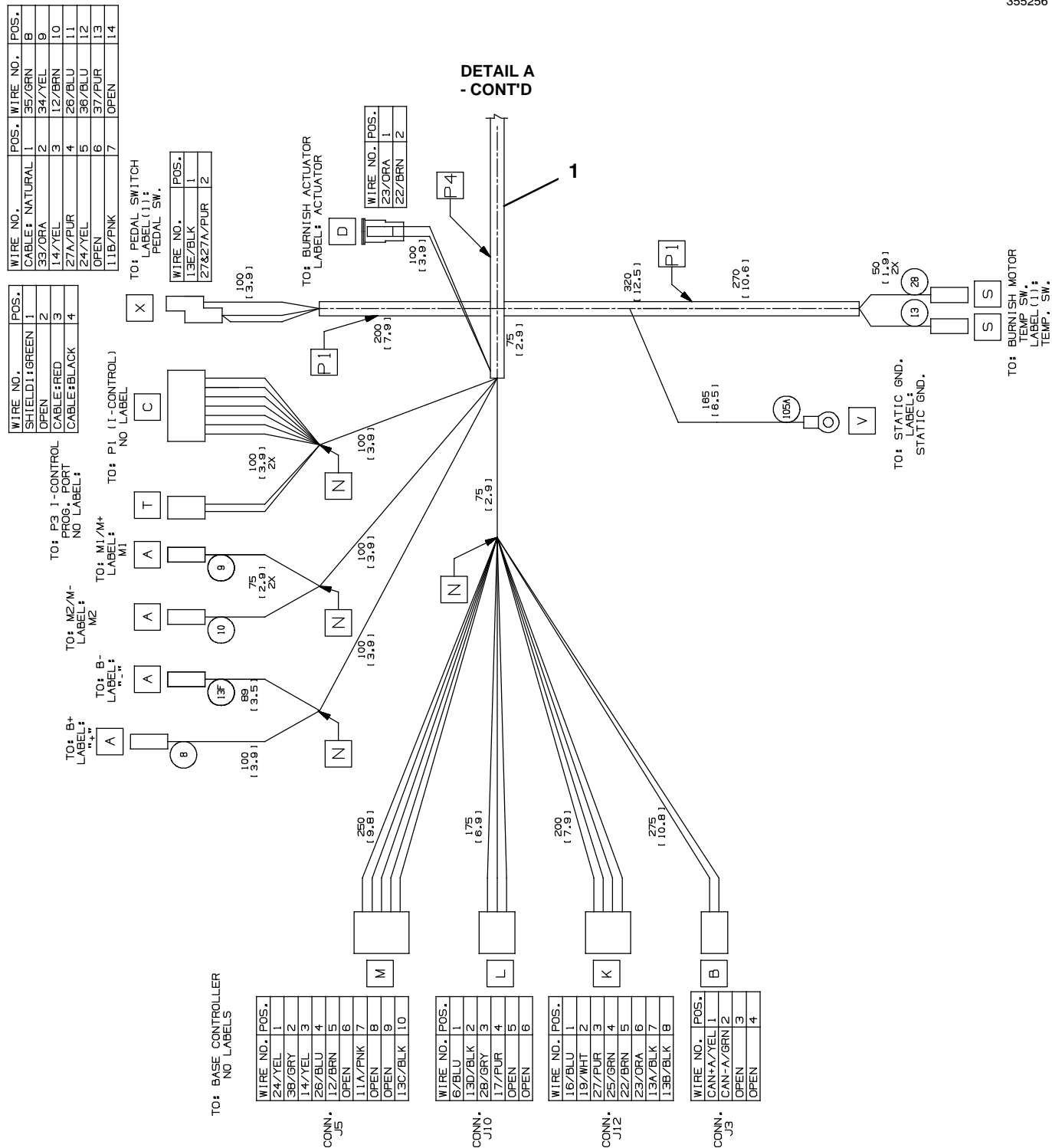
WIRE HARNESS, MAIN, DRIVE MODEL

355256



WIRE HARNESS, MAIN, DRIVE MODEL - CONT'D

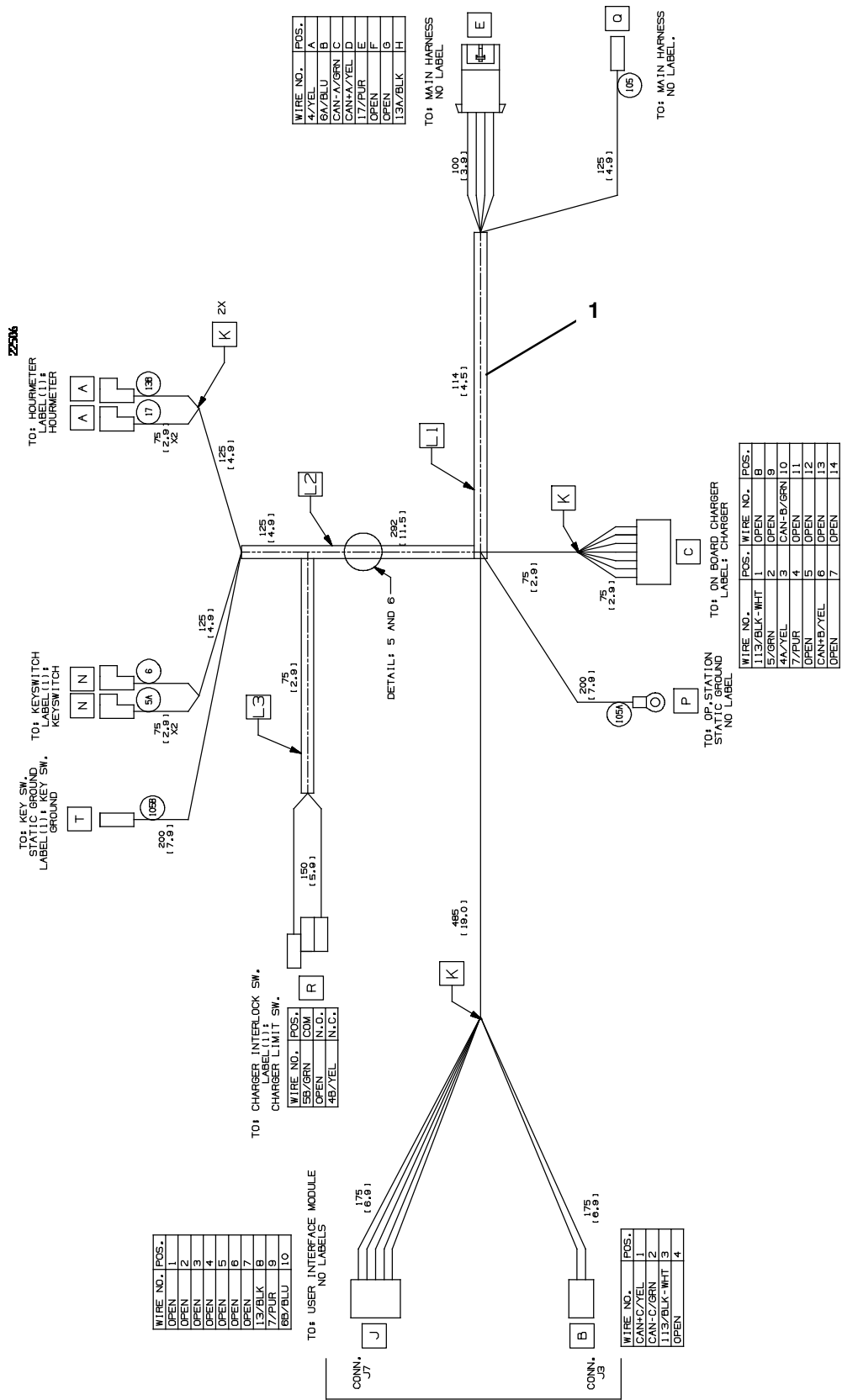
355256



Ref.	Part No.	Serial Number	Description	Qty.
1	1072287	(00000000-	) Harness, Main, Ele [Volga, B5, Propel]	1

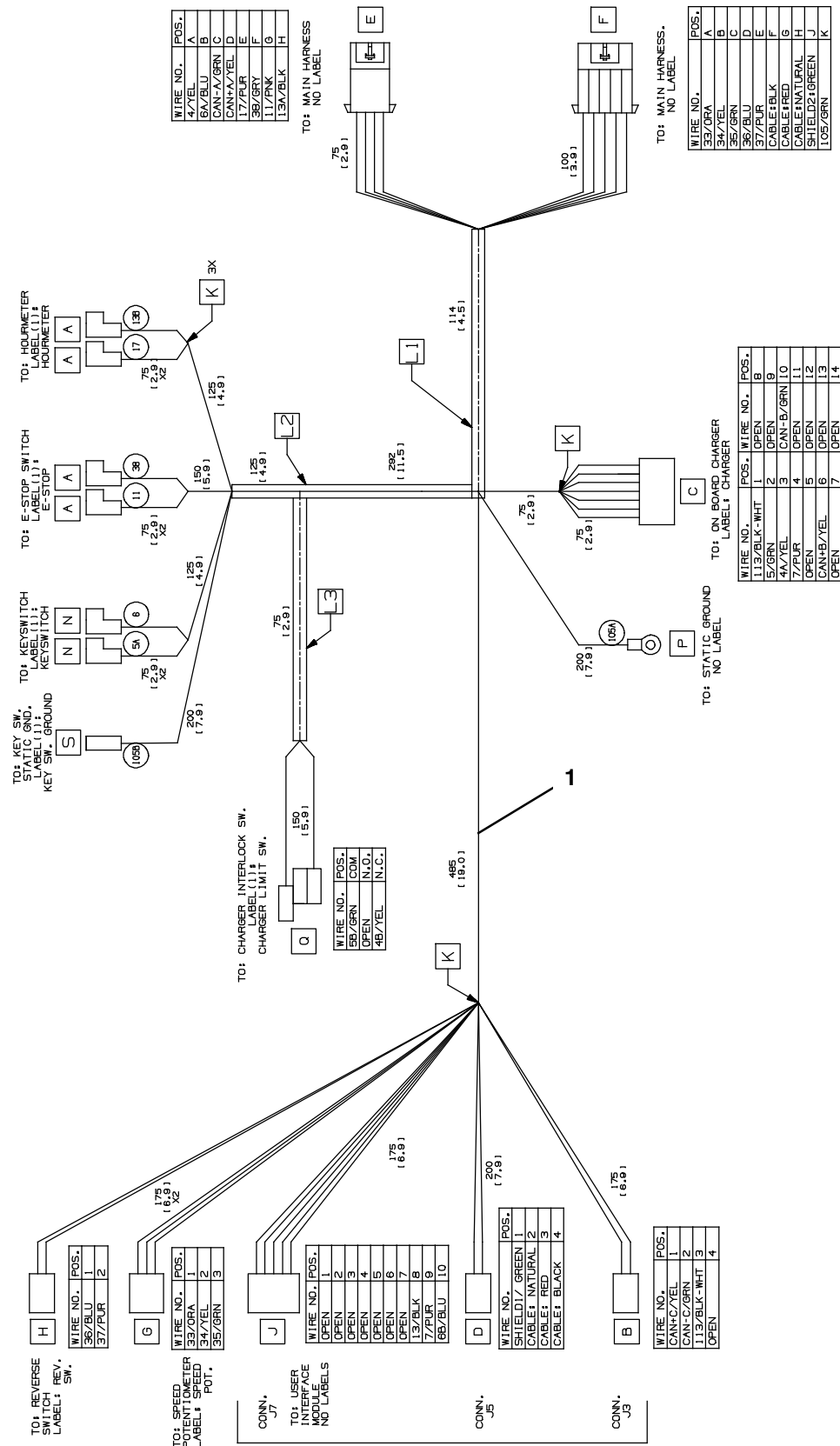
WIRE HARNESS, CONSOLE, PUSH MODEL

355259



Ref.	Part No.	Serial Number	Description	Qty.
1	1072293	(00000000-	Harness, Ele [B5/B7, Op.Station, Push]	1

## WIRE HARNESS, CONSOLE, DRIVE MODEL

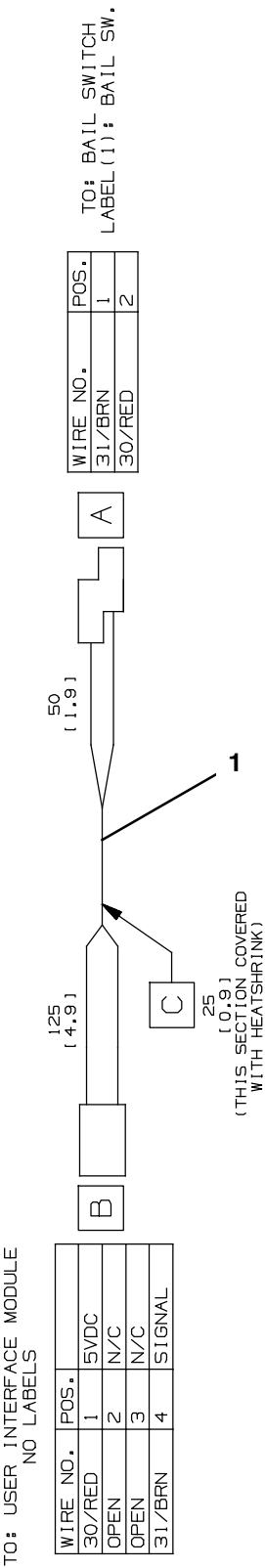


355260

Ref.	Part No.	Serial Number	Description	Qty.
1	1072282	(00000000- )	Harness, Ele [B5/B7, Op.Sta., W/Propel]	1

WIRE HARNESS, BAIL SWITCH

355261



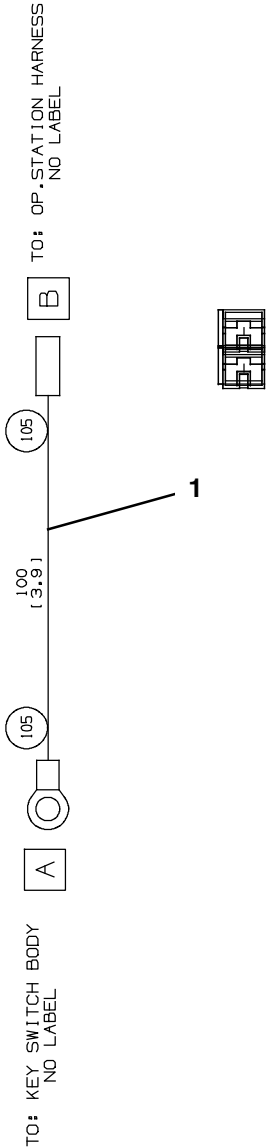
Ref.	Part No.	Serial Number	Description	Qty.
1	1072524	(00000000- )	Harness, Ele [Bail Switch]	1



WIRE HARNESS, KEY SWITCH

355262

COMPONENT	COMPONENT DESCRIPTIONS
ALPHA	
A	TERMINAL, RING, .750", INSULATED, 14-16GA, TYCO #322724.
B	TERMINAL, SNAP PLUG, .156", MALE, 14-16GA, INSULATED, MOLEX #19034-0009.



WIRE NO.	COLOR	GAU GE	TYPE
105	GRN	16	UL-GXL

Ref.	Part No.	Serial Number	Description	Qty.
1	1073037	(00000000-	) Harness, Ele [Key Sw.,Static Gnd]	1