# **Operator's Manual**



**Propane Burnisher with Vacuum** 

Failure to read and understand this manual before operating this machine or performing service on this machine may result in injury to the operator or nearby personnel or result in damage to the machine or nearby property. Each operator must be trained in the operation of this machine before being allowed to use it. Contact Amano Pioneer Eclipse Customer Service at 1-800-367-3550 or 1-336-372-8080 or an authorized Amano Pioneer Eclipse Distributor to inquire about training or to request a replacement manual.

La falta de leer y de entender este manual antes de usar esta máquina o de realizar servicio en esta máquina puede dar lugar a lesión al operador o al personal próximo o a resultado en daño a la máquina o propiedad próxima. Cada operador debe ser entrenado en la operación de esta máquina antes de ser permitido utilizarla. Ponerse en contacto con el servicio de Amano Pioneer Eclipse 1-800-367-3550 o 1-336-372-8080 o un distribuidor autorizado por Amano Pioneer Eclipse para investigar sobre el entrenamiento o para solicitar un manual.

Manquer de lire et de comprendre ce manuel d'utilisation avant l'utilisation de cette machine ou avant faire de maintenance sur la machine peut être résulter en blessure à l'opérateur ou au personnel proche ou peut endommagé la machine ou la propriété proche. Chaque utilisateur doit être entraîné dans l'opération de cette polisseuse avant l'utilisation. Veuillez contacter le service àpres-vente de Amano Pioneer Eclipse à 1-800-367-3550 ou 1-336-372-8080 et/ou un distributeur de Amano Pioneer Eclipse pour vous renseigner concernant l'entraînement ou pour obtenir un autre manuel d'utilisation. For Models: ST21KWA ST21KWAE ST24KWA ST24KWAE ST28KWA ST28KWAE



Pioneer Eclipse



## FOR YOUR SAFETY IF YOU SMELL GAS:

- 1. Open window.
- 2. Don't touch electrical switches.
- 3. Extinguish any open flame.
- 4. Immediately call your gas supplier.

#### FOR YOUR SAFETY

Do not store or use gasoline or other

flammable vapors and liquids in the

vicinity of this or any other appliance.

#### **Record This Important Information**

Date of Purchase			
City	State	Zip	
Phone	Contact		
Machine Model			
Machine Serial Number			
Engine Type			
Engine Serial Number		_	
	Important Phone Numbers		
Medical Emergency			
Police			
Fire Department			

# Safe Operating Practices

- Allow only qualified and trained personnel to operate equipment.
- Follow maintenance and operating instructions.
- Keep accurate records of maintenance and service in the provided log book.
- Remember, routine maintenance NOW will prevent a breakdown LATER.
- Check oil level before starting.
- Keep nuts and bolts tightened and hose connections snug.
- Refer to engine manufacturer's service manual or contact Amano Pioneer Eclipse for engine repairs or adjustments not listed in this manual.
- Never alter or reconstruct the fuel system. To do so may be dangerous and will void the factory warranty.
- Use UL, CTC/DOT listed Safe-Fill™ cylinders supplied by Amano Pioneer Eclipse.
- Be careful not to cross thread the Rego coupling on the fuel cylinder.
- Store the fuel cylinder outside away from heat and direct sunlight.
- Check pad holder for cracks each time the pad is changed.
- Have the machine serviced by a certified technician, including an emission check, every three (3) months.
- Before attempting any service on the machine, turn the ignition switch "OFF" and remove the key to avoid accidental start-up.

#### WARNING: Operate in a well ventilated area.

(Catalytic mufflers need to warm up before they are effective. Failure to do so may cause nausea or carbon monoxide poisoning.)

**WARNING:** Keep hands and feet clear of rotating pad! Inspect pad holders regularly. (A fractured pad holder may result in pad holder fragments causing injury.)

**WARNING:** Failure to follow the instructions and warnings appearing in this operating manual or on machine labels may result in serious injury to the person using the machine and possibly to other persons and property.

# NOTE: This machine is manufactured for commercial use only.

Propane powered floor burnishers are designed and manufactured for ultra high speed commercial floor burnishing only. These machines are designed to burnish most modern types of floors including composition tile, stone, marble, terrazzo, and resilient floor covering using floor coatings designed for ultra high speed burnishing.

Even though NFPA 58 8-4.5 says ..."these machines shall be permitted to be used in buildings frequented by the public, including the times when such buildings are occupied by the public," Amano Pioneer Eclipse suggests usage when occupancy of a given work area is minimal.

#### These machines should not be used:

- in nursing homes, hospitals, day-care centers, etc.
- by unqualified or untrained personnel.
- unless properly maintained and adjusted.
- on areas with obstructions such as thresholds, floor outlet boxes, etc.
- in areas where loose tile or other objects are present.
- in rooms without proper ventilation.

# These machines should not be left running unattended.

CAUTION: Do not allow the burnisher to operate without moving the machine. It may burn the floor and damage the floor covering.

#### **PROPOSITION 65 WARNING**

Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Wash hands after handling.

# **Specifications**

#### ST21KWA(E)

Pad Size	21" (53,3 cm)
Pad Speed	2000 RPM
Width	23.5" (59,7 cm)
Length (handle up)	48" (122 cm)
Engine	Kawasaki 17 HP
Starting	12 V Battery
Weight	215 lbs. (97,5 kg)
Handle	Bent Tube with Bail
Deck	Cast Aluminum
Vibration	Less than 2.5 m/s
Sound Level	87 dB(A)

### ST28KWA(E)

28" (71,1 cm)
1700 RPM
30" (76,2 cm)
54" (137 cm)
Kawasaki 17 HP
12 V Battery
225 lbs. (157 kg)
Bent Tube with Bail
Cast Aluminum
Less than 2.5 m/s
87 dB(A)

#### ST24KWA(E)

Pad Size	24" (61 cm)
Pad Speed	1800 RPM
Width	26.25" (66,7 cm)
Length	51" (130 cm)
Engine	Kawasaki 17 HP
Starting	12 V Battery
Weight	220 lbs. (100 kg)
Handle	Bent Tube with Bail
Deck	Cast Aluminum
Vibration	Less than 2.5 m/s
Sound Level	87 dB(A)

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#### Purpose

The accepted demand for and use of propane powered floor machines underscores the need for responsible manufacturers and users to stress the importance of safety. This manual is designed to provide the information you need to ensure proper and safe use of propane powered floor machines.

In addition, we recommend operators of propane powered floor machines complete a program of training and certification for the safe operation of this equipment.

# Refueling and Storage of Fuel Cylinders

Propane cylinders should be filled only by an authorized propane dealer. When not in use, they should always be stored outside in an upright position in a secure, tamper-proof, steel mesh storage cabinet. This cabinet may be located next to the building but with at least five feet (1.5 m) of space between the cabinet and the nearest building opening (door or window).

The National Fire Protection Association (NFPA) Standard for Storage and Handling of LP Gas is the appropriate authority for safe propane use. A copy of this publication is available through the National Fire Protection Association in Quincy, Massachusetts (1-800-344-3555).

## Safety in Engineering

Amano Pioneer Eclipse engineers and manufactures machines utilizing UL (Underwriters Laboratories) and CGA (Canadian Gas Association) approved components where possible. When a tag or tags bearing the CE and/or CGA insignia is/are affixed to the machine, it indicates that the entire machine has been researched, tested, and is listed by one or both organizations as having met all of their safety criteria.

In some cases, the tag will be affixed to a particular component. This means that only the component is listed. Component recognition for the following parts is important: fuel cylinders, couplings, regulators, and fuel lines. We strongly recommend that you use only machines meeting the above minimum requirements.

Even though propane powered floor machines manufactured by Amano Pioneer Eclipse meet the OSHA Time Weighted Average (TWA) standard for noise, we strongly recommend that hearing protection be worn by the operator.

#### Use and Care

All machines manufactured by Amano Pioneer Eclipse come with a detailed Operator's Manual. Safety dictates that before using any new equipment, it is important to read and understand the Operator's Manual. We strongly recommend this practice.

### **Canadian Safety Regulations**

- 1. A sign indicating "NO SMOKING" shall be permanently displayed at the storage area. The sign shall be in accordance with the sign required in Clause 10.12.3 of CAN/CGA-B149.2-M91, Propane Installation Code.
- 2. When the cylinder is attached to the floor maintenance machine for use, the operator shall not leave the unit unattended except for short periods of time such as rest stops, washroom or meal stops.
- 3. The requirements of 1.10.1 (e) and (g) do not apply in industrial buildings.
- 4. A floor maintenance machine shall only be used in buildings:
  - a) provided with continuous mechanical ventilation that removes the products of combustion to the outdoors of not less than 300 CFM for each 10,000 Btu-hr input or fraction thereof.
  - b) provided with natural ventilation of not less than 300 CFM for each 10,000 Btu-hr input or fraction thereof, based on a maximum of one quarter air exchange per hour for the net building volume.
- 5. The owner of a floor maintenance machine shall ensure that the operator has participated in a course authorized by the manufacturer of the unit on the safe handling of propane and the safe operation of the machine.
- 6. The owner of a floor maintenance machine shall ensure that the unit is maintained in accordance with the manufacturer's recommended maintenance procedures in a safe operating condition and the owner shall maintain a record of the maintenance for a period of two years.
- 7. Before transporting a floor maintenance machine, the cylinder shall be securely fastened with the system valve closed, and the cylinder shall be located in a well ventilated space.

#### Test for Operator-Ear Sound Pressure Level

Amano Pioneer Eclipse measures and rates the operator-ear sound pressure level for hand-guided floor treatment and floor cleaning machines for industrial use. All tests are performed in accordance with European Machinery Directive (98/37/EC).

- Outdoor test area consists of a flat open space free from effects of signboards, buildings or hillsides for at least 15m (50 ft) from the center of the test surface. Indoor tests are conducted in a semi-anechoic or sound deadening room.
- The test surface is a single sheet of floor covering at least 1 m (3.3 ft) wider and longer than the equipment being tested. In order to not affect the sound reading, the observer taking readings is at least 2 m (6.6 ft.) from the equipment being tested, or standing directly behind the operator.
- All machines are tested while stationary and centered on the test surface. With the traction drive in neutral (where applicable) the test is conducted with the machine at maximum engine or motor speed as specified by the manufacturer.
- The operator is located in the normal operating position with the microphone or meter supported independent of the machine, 1,68 m (66 in) above the test surface, 25 cm (10 in) to the right and left centerline of the operator's position, and 20 cm (8 in) to the rearmost point of the handle, with the handle in the most forward position.
- The sound level meter is observed for a minimum of 5 seconds or until a stabilized reading is obtained. The maximum repeatable sound level observed during the test at each microphone position is recorded and documented.

#### Test for Hand-Arm Vibration at the Grip Surface of Hand-Guided Machinery

Amano Pioneer Eclipse measures and rates the vibration at the machine-hand contact surface of hand-guided machines that are provided with handles in accordance with European Machinery Directive (98/37/EC).

- The Test area consists of a flat open floor area that allows the machine to be operated normally.
- The transducer is mounted firmly at a point halfway along the length of the handle where the handle would normally be held.
- Machines are tested while stationary, with all mechanisms necessary for the equipment to perform its intended functions engaged and the traction drive in neutral (if applicable). The machine will be tested at maximum engine or motor speed as specified by the manufacturer of the subject machine.
- The measurements are recorded from the dominant axis.

### Adding Oil

When the Burnisher is shipped by **overland freight**, the correct amount of oil is in the engine. **Air freight** shipments require the machine to be shipped without oil.

# The machine is also shipped with the battery disconnected.

When filling a "dry" burnisher or changing oil, for the Kawasaki engine add no more than 1.5 quarts (1,4 L) when not changing the oil filter, or 1 3/4 US quarts (1,8 L) when the oil filter is changed, then check the dip stick in the fill cap. Add oil if necessary but DO NOT OVERFILL! ALWAYS CHECK OIL BEFORE USING THE MACHINE. Refer to the engine operator's manual. IMPORTANT: When checking oil on Kawasaki models, remove oil filler cap and clean dipstick with clean cloth, then insert dipstick into tube without screwing in. Then check oil level. ALWAYS make sure the machine is sitting level when checking oil.

#### **Connecting the Battery**

- 1. Remove engine dust filter.
- 2. Remove battery cover.
- 3. Connect the **RED** positive battery cable **FIRST.**
- 4. Connect the **BLACK** negative battery cable **LAST**.
- 5. Replace battery cover and filter.

#### Adjusting the Handle and RokBak

The burnisher handle adjusts for comfort and optimum control. Height may be changed to suit the individual operator. The handle may also be adjusted to an upright position to allow the burnisher to be rocked back for easy pad change. (See page 8.) Rock the burnisher to the vertical position from the front of the unit. The burnisher must be off prior to using the RokBak Tilt System.

#### Filling the Safe-Fill Fuel Cylinder

Amano Pioneer Eclipse uses the 20 lb. capacity aluminum safe-fill cylinder which meets the D.O.T. 4E240 standards. These cylinders are also listed by U.L. Filling should be done ONLY by a qualified propane dealer. **FILL THROUGH THE SERVICE VALVE ONLY.** (See page 11) A properly filled cylinder should not exceed 80% of the rated capacity.

**DO NOT** attempt Safe-Fill cylinder repair. Return the cylinder to your propane dealer if repair is necessary. Please note that D.O.T. regulations prohibit shipping of cylinders after the cylinder has been filled with propane.

#### Installing the Safe-Fill Fuel Cylinder

Strap the Safe-Fill cylinder in place. Tighten the adjustable straps securely. Connect the fuel hose coupling to the service valve by turning to the right (clockwise). **HAND TIGHTEN ONLY**. Make sure coupling is not cross threaded and check for leakage by noting any propane odors immediately after cylinder is connected. (It is sometimes easier to install if the connection to the service valve is made before strapping the cylinder in place.)

TO REMOVE THE SAFE-FILL CYLINDER, reverse above procedure. **Always** connect or change cylinders in a well ventilated area.

#### **Starting Instructions**

- 1. Check oil and fuel levels
- 2. Check and clean engine air filter. NEVER RUN CONTINUOUSLY FOR MORE THAN 1 HOUR WITHOUT CLEANING OR CHANGING ENGINE DUST FILTER. (See "Scheduled Maintenance")
- 3. Check carburetor air filter. Change if necessary. (See "Scheduled Maintenance")
- 4. Turn propane service valve counterclockwise to open.

NOTE: ALWAYS OPEN SLOWLY TO ALLOW PRESSURE TO EQUALIZE IN HOSES. OPENING QUICKLY MAY CAUSE THE FLOW CHECK VALVE TO ENGAGE, LIMITING FUEL FLOW.

- 5. Allow machine to tilt backward (pad off floor) leaving the bail throttle at idle.
- Engage starter by turning the key-switch to the starting position for up to 5 seconds. If the machine fails to start, let the ignition switch return to the run position (Do not turn off). Wait approximately 5 seconds and try again for another 5 seconds. (NOTE: Do not engage starter for more than 10 seconds. Allow a 60 second cool-down period for each 10 second start-up cycle.)
- 7. After engine starts, the YELLOW alert light will flash for a 3 minute warm-up cycle of the SAFE SENSE system. (The machine may be operated during this warm-up period.) After the warm-up cycle, the alert light will go out. None of the SAFE SENSE lights will be illuminated as long as the machine is running safely.

#### Operation

After engine has started, pull the bail throttle to operating speed. The clutch will engage automatically at a preset speed.

Lower the burnishing head to the floor while moving the machine forward slowly.

CAUTION! DO NOT RUN THE BURNISHER WITHOUT MOVING THE MACHINE. IF THE MACHINE IS ALLOWED TO RUN IN ONE SPOT DAMAGE TO THE FLOOR MAY OCCUR.

To stop burnishing, push down on handle to raise the burnishing head off the floor and release the bail handle.

NOTE: This burnisher is equipped with the SAFE SENSE emission monitoring system and catalytic muffler.

Upon starting the engine, the YELLOW SAFE SENSE LED light will flash for 3 minutes during a warm-up period. After that, it will be off unless a warning is being signaled. If the carbon monoxide in the exhaust is approaching an elevated level the YELLOW alert light will flash, indicating service is needed. The machine will continue to operate safely in this mode, but should be serviced as soon as possible. If the carbon monoxide levels exceed a pre-set service level, the RED LED service light will start flashing. The machine will shut down after the RED light has flashed continuously for one minute.

#### WARNING! Catalytic mufflers require a few minutes to warm up before effectively removing harmful emissions. Make sure of proper ventilation during this warm-up period!

It is recommended to start burnishing on the right side of the aisle, turn and come back down the aisle in the opposite direction, overlapping the previous path slightly. Continue this pattern until the floor area to be burnished has been covered with the last pass being on the right side of the machine. The forward speed is generally at normal walking speed.

#### Idling and Stopping the Machine

If for any reason the machine needs to idle for a short period of time (less than 3 minutes), simply raise the burnishing head and release the bail handle.

The SAFE SENSE system will not allow the engine to idle unnecessarily. After 4 minutes the Tilt/Idle LED will start flashing. After another minute, the engine will shut down.

To stop the engine, close the service valve on the fuel cylinder by turning it clockwise (the engine will stop when the fuel in the lines is used up) or turn the key switch to "OFF".

#### Installing/Changing Burnishing Pad

- 1. With engine OFF and in the operating position, tilt the machine to the vertical position (See page 8).
- 2. Remove centering device (if used) and carefully pull old pad off the velcro pad holding material.
- 3. CAREFULLY INSPECT THE PAD HOLDER FOR CRACKS OR DAMAGE! Replace if necessary.

**NOTE:** A damaged pad holder rotating at high speeds may be an extreme hazard if it should come apart.

- 4. Pull center from new pad, center pad on pad holder and secure with centering device.
- 5. Press pad onto velcro.
- 6. Return machine to upright position.

#### **Emptying the Dust Bag**

- 1. Grasp the dust bag cover at each end and lift up to disengage the cover from the retaining clips.
- 2. Pull dust bag downward off dust tube by holding at the front and pulling down and to the rear to remove.
- Empty bag by rubbing or gently tapping on sides, in a downward motion, to loosen soil trapped on sides of bag. For heavy soil, turn bag inside out to clean.
- 4. Reinstall bag in pontoon by hooking elastic edge onto back of dust tube lip, and fitting elastic around dust tube.
- 5. Slip the back end of dust bag over the bag retainer bar (the bar that crosses the bottom rear edge of the bag cover). Align the cover retaining slots with the retaining clips and push the cover down to secure in place.

#### Storage

Only authorized, trained personnel should have access to propane cylinders and machines.

 Remove propane fuel cylinder when not in use and store it outside in a storage cage in accordance with NFPA Section 5 or Subsection 9.5.2 of CAN/CGA B149.2. Do not release or bleed propane inside the building.

Please consult your local Fire Marshal to ensure that you are in compliance with local fire codes.

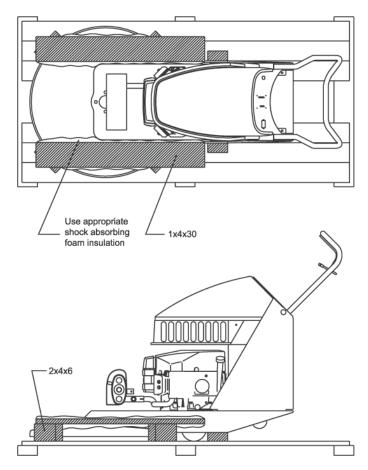
- 2. Store machine away from objects that may fall and damage it.
- 3. Never store burnisher or fuel cylinders near an open flame or heat producing device.
- 4. Make sure burnisher is cleaned properly before storing.
- 5. Never store burnisher with cylinders installed, or store spare cylinders in an enclosed van or trailer.

#### Repacking

- 1. Use shipping and package information attached to packing slip to repack machine.
- 2. Store machine in a dry location. Temperature not to exceed 500C.

#### **Transportation**

When transporting a propane powered floor burnisher with the fuel cylinder installed, the cylinder should be securely fastened with the service valve closed and the burnisher should be secured in the vehicle. Any propane fuel cylinders not installed should be securely fastened to avoid movement and damage. The service valves should be closed. Never store burnishers with cylinders installed, or store spare cylinders in an enclosed van or trailer. It is a good practice to check propane cylinders for overfilling before transporting them. If overfilled, correct before loading them in the vehicle by venting the excess propane outside in a safe area using the fixed liquid level gauge.



# Scheduled Maintenance

Following proper scheduled maintenance procedures will provide years of uninterrupted service.

# Kawasaki Engine

Regular Service Period

Item or Type of Service			Each Use	25 hrs.	50 hrs.	100 hrs.	300 hrs.
Engine Oil	Check Level		2				
	Change	2,4,5			2,4,5		
Oil Filter	Change					4,5	
Engine Dust Filter	Inspect		1				
Engine Dust Filter	Clean/Change		1,2				
	Inspect		2				
Carburetor Air Cleaner	Clean/Change Element				2,4,5		
	Clean Pre-Foam Element			2			
Belt	Inspect	2	2				
Deit	Adjust/Replace	As Required (5)					
Fuel Hose & Connections	Inspect	2	2				
	Replace		lf sig	ns of wea	r are prese	ent (3)	
Cooling Fins	Clean				2		
Burnishing Head Asm.	Inspect				6		
Pad Holder	Inspect			When cha	inging pad	1	
	Replace			If cracks	appear (2)		
Bolts & Connections	Inspect				6		
Boils & Connections	Tighten				6		
Spark Plug	Clean/Replace				5,6	4,5	
Battery & Battery Cables	Inspect				2		
Exhaust Emissions	Check						3,5
Check & Adjust Valve Clea	rance Retorque Heads	5,6,7				5,6,7	

1. Perform daily or after each use.

- 2. Refer to "General Maintenance Procedures."
- 3. These items should be serviced by an authorized Amano Pioneer Eclipse Service Center.
- 4. Refer to Engine Manufacturer's Owner's Manual for recommended replacement.
- 5. Always enter maintenance performed in Service Log Book.
- 6. Routine Maintenance
- 7. Refer to Engine Service Manual.

#### **Fuel System**

The fuel system works from vacuum created by the engine running. Turning the fuel cylinder service valve ON pressurizes the system for flow to the carburetor once the engine starts to crank.

#### Adjusting the Regulator

NOTE: The regulator and carburetor have been factory preset and should not require any modification. Only Amano Pioneer Eclipse authorized personnel, trained and certified in propane systems, should modify or adjust the system or its setting.

N.F.P.A. 58 8-1.4 states, "In the interest of safety, each person engaged in installing, repairing, filling, or otherwise servicing an LP-Gas engine fuel system shall be properly trained in the necessary procedures."

#### Engine Dust Filter

The engine dust filter should be cleaned each hour and after each use by shaking out the dust and then rinsing with mild detergent. Squeeze out the excess water (do not wring). Allow the filter to air dry. Failure to maintain a clean engine filter will cause the engine to overheat. Also, it may cause the exhaust emissions to elevate to harmful levels.

#### Carburetor Air Filter

- a. Loosen toggle clamps on each side of the air cleaner cover.
- b. Remove foam pre-cleaner and paper filter element.
- c. Clean foam pre-cleaner.
- d. Clean filter seal, making sure no dust is allowed in the carburetor inlet.
- e. Inspect paper element. Replace if dirty, bent or damaged.
- f. Install the clean paper element, pre-cleaner, air filter cover and reclamp.

#### NOTE: Failure to service the carburetor air cleaner may produce excessive carbon monoxide emissions and cause the SAFE SENSE system to shut the engine down.

#### Fuel Hose and Connections

- a. Inspection
  - 1) Inspect hoses for abrasions and other signs of wear; replace all worn or damaged hoses.
  - 2) Check for gas leaks by spreading soapy water

solution around all the connections while the service valve is turned ON and the fuel system is pressurized.

- b. Fixing Leaking Joints
  - Uncouple bad joint and clean it. Then apply pipe sealing compound (Loc-Tite Pipe Sealant with Teflon or equivalent) to the clean joint.
  - 2) Recouple the joint finger tight plus 1/2 turn.
  - Recheck for leaks using soapy water solution. Watch for bubbles at the joint with the fuel cylinder service valve turned on and the fuel system pressurized.

#### **Engine Maintenance**

#### Cooling Fin Maintenance

- a. Remove the blower housing and other cooling shrouds.
- b. Clean the cooling fins as necessary using compressed air or pressure washer.
- c. Reinstall all housings and shrouds.

#### Head Bolt Maintenance

Refer to Engine Manufacturer's Service Manual.

#### Changing Oil

- a. Run engine for 5 minutes to warm oil, then stop the engine by closing the fuel service valve, allowing the engine to stop by itself. Turn the key OFF.
  NOTE: Must be running above 2150 RPM or SAFE SENSE will shut the engine down.
- b. The machine should be in an upright, level position. If necessary, place a block under the back of machine or apply weight to the front of the deck to maintain an upright, level position.
- c. Remove the propane cylinder to access oil drain hose.
- d. Remove the oil drain hose from the retaining clip, and remove the plug from the end of the hose.
- e. Place drain pan at back of machine and direct oil drain hose into pan.
- f. Locate oil drain valve on left side of machine, and turn counterclockwise to open valve.
- g. Allow oil to drain completely.
- h. If changing oil filter, place an absorbent material under the filter to catch spillage. Remove filter by turning counterclockwise. Discard old oil filter according to local regulations. Clean any oil spillage from machine, apply a small amount of clean oil to new oil filter seal, install new filter turning clockwise and hand tighten.

## **General Maintenance Procedures**

- i. Once oil has completely drained from machine, turn oil drain valve clockwise to close.
- j. Remove blocks or weights if present and allow machine to tilt back. Drain remainder of oil from oil drain hose and reinstall plug into end of hose.
- k. Secure hose with retaining clamp.
- Return machine to upright, level position, reinstalling block or weights if needed.
   Always make sure that machine is upright and

level before checking, filling, or changing oil. m. Remove oil fill cap. Slowly add no more than 1.6 US

- quarts (1,5 L) of motor oil when not changing the oil filter, or 1.8 US quarts (1,7 L) when the oil filter is changed. Refer to engine Owner's Manual for recommended oil.
- n. Check oil level with dip stick in oil fill cap. Add additional oil if necessary.
- Replace fill cap. Hand tighten only.
  DO NOT OVERFILL AND NEVER RUN ENGINE
  LOW ON OIL!

IMPORTANT: ALWAYS MAKE SURE THE MACHINE IS SITTING LEVEL WHEN CHECKING OIL.

#### **Belt Maintenance**

To inspect the belt it is necessary to put the machine in the RokBak position. If the belt is badly cracked or worn it should be replaced.

To check for the proper tightness squeeze the belt together. The belt should depress between 1/4" (0,6 cm) and 1/2" (1,3 cm). Always use the recommended belt size.

#### Removing the old belt:

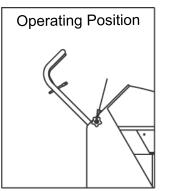
- 1. In order to access the pad driver pulley, the pulley cover must be removed. Be sure to note the orientation of the cover because the bolt pattern aligns only in one position.
- 2. Remove the belt by turning the spindle with a 3/4" wrench on the spindle wrench flats above the deck and working the belt out of the spindle pulley groove with a flat screwdriver as it turns.
- Back the 3/8" bolt that fastens the tensioner to the deck 3/8" to 1/2" and drop the tensioner down to disengage the 1/4" pin. Pivot the tensioner on the 3/8" bolt 180°.
- 4. Move the belt between the tensioner and the liner dome and remove the belt from the machine.

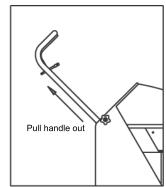
#### Reinstalling the belt:

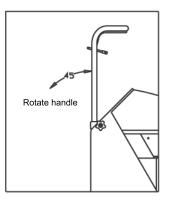
- 1. Reverse steps 2 4 above. Make sure that belt is properly set in all pulleys.
- 2. Reinstall the pulley cover. If bolt patterns do not align, turn the cover clockwise 90° up to three times until bolt patterns align.

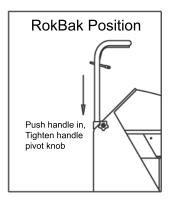
#### Adjusting the Handle and RokBak

To place the machine in RokBak, adjust the handle as shown below and lift up on the front of the deck until the machine rocks back into a stable position.









# Battery Maintenance and Replacement

The battery supplied with this machine is a sealed, gelled electrolyte, maintenance free type. It never should need servicing.

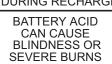
When battery replacement becomes necessary, the replacement should have the same specifications as the original. If in doubt, contact Amano Pioneer Eclipse Customer Service at 1-800-367-3550 or 1-336-372-8080. To replace:

- 1. Remove the propane fuel cylinder from the machine.
- 2. Raise battery cover to expose battery.
- 3. Disconnect battery cables from terminals. Always disconnect the **BLACK** cable first.
- 4. Remove battery hold-down clamp.
- 5. Lift old battery out and replace with new battery.
- 6. Reinstall hold-down clamp.
- Connect the RED positive battery cable first.
  Connect the BLACK negative battery cable last.
  Dispose of old battery in the proper manner. Most auto parts stores accept used batteries for recycling.

#### SAFETY INSTRUCTIONS RECHARGEABLE BATTERY ! DANGER !

ALL BATTERIES CONTAIN CORROSIVE ACIDS AND PRODUCE EXPLOSIVE GASES DURING RECHARGING

GAS EXPLOSION CAN CAUSE BLINDNESS OR INJURY SHIELD EYES



Do not make direct contact between battery terminals as this can cause an explosion or fire.

Batteries should not be stored in a discharged state.

- Keep charger away from children. Only adults should recharge batteries.
- Use only the charger provided by the equipment manufacturer.
- Do not recharge batteries upside down.
- Charging produces explosive gasses. Charge battery in a well ventilated area away from sparks, flames and smoking.

Disconnect charger from battery after 24 hours.

INTERNAL TAKE MILK, EGG WHITES, AND WATER. DO NOT INDUCE VOMITING. EXTERNAL FLUSH IMMEDIATELY FOR 15 MINUTES IF ACID GETS IN EYES OR ON SKIN.
--

#### CALL PHYSICIAN IMMEDIATELY

#### Installing & Removing the Dust Skirt

- 1. With machine in RokBak position, place skirt around deck edge with hoop on outer edge.
- 2. Position skirt clamp and seam at extreme back of deck.
- 3. Position skirt into groove in bumper.
- 4. Adjust excess fabric to front half of deck. Excess fabric should be distributed evenly across front half of deck; fabric on back half of deck should fit tightly.
- 5. Tighten clamp until skirt is secure.
- 6. Pull hoop of skirt forward, extending fabric. Test movement of band over fabric. Band should move freely over skirt fabric.
- 7. Hand-tighten clamp.

#### Adjusting the Wheel Brackets

The buffer is equipped with wheel brackets that allow the wheels to be moved forward or backward. To reduce weight on the pad, the wheels can be moved forward or to add weight, moved to the rear.

This feature aids the operator in adjusting the machine for different types of floor finish. It can also help in balancing the machine if a steel tank is used in place of an aluminum cylinder. NOTE: Aluminum cylinders with safety devices for overfill prevention are recommended.

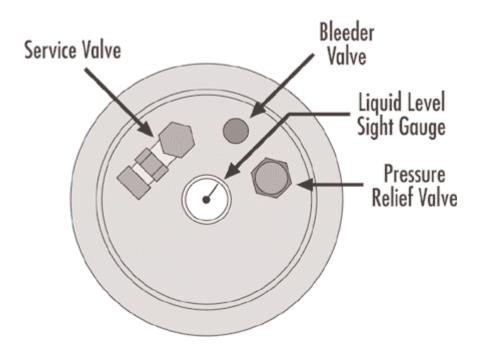
#### **PROPOSITION 65 WARNING**

- Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm.
- Batteries also contain other chemicals known to the State of California to cause cancer.
- Wash hands after handling.

Sy	vmptom	Possible Causes
1.	Hard to start	Opening propane cylinder too quickly (OPEN SLOWLY) Low oil Insufficient vacuum Coil, air gap needs adjusting Spark plug or head bolts loose Blown head gasket
2.	Will not start	No fuel Low oil Wires broken or disconnected Fuse blown in Safe Sense Incorrect spark plug gap (Gap should be .025) Insufficient vacuum Defective spark plug Defective coil Blown head gasket
3.	Engine lacks power	Insufficient vacuum Dirty air filters Governor needs adjusting Leaking head gasket No compression - worn rings
4.	Smell of burned rubbe	r Belt out of adjustment - check automatic tensioner
5.	Machine vibrates	Loose nuts Pad not centered
6.	Machine "Bogs Down"	<i>when in use</i> Operator bearing down too hard Dirty air filters
7.	Machine pulls to one s	<i>ide</i> Bent wheel bracket or worn wheel Adjust wheels forward
8.	Engine stops running	Out of fuel Low oil High exhaust emissions Dirty air filter

# Machine Drawings and Parts Lists

#### Safe Fill Cylinder Head Layout



## Dash Panel: SpeedStar

NOTE: After engine starts, the YELLOW alert light will flash for a 3 minute warm-up cycle of the SAFE SENSE system. (The machine may be operated during this warm-up period.) After the warm-up cycle, the alert light will go out. None of the SAFE SENSE lights will be illuminated as long as the machine is running safely.

**OXYGEN SENSOR:** If light comes on during normal operation, check the oxygen sensor wire for a snug fit into the harness and for a snug fit of the harness into the SafeSense board. If the light still remains on, the machine must be serviced by a qualified technician.

**TURN GAS OFF:** Light comes on to remind the operator to turn off the gas after the engine shuts down.

**BATTERY:** Light comes on when the battery voltage is low indicating the need to service charging system.

OIL: Light comes on when there is low oil pressure. If the engine loses oil pressure, the engine shuts down until the condition is corrected. The light comes on each time the engine is stopped.

TILT/IDLE: Light comes on when the machine is tilted to the pad change position and the engine shuts down. If the machine is allowed to idle for more than 4 minutes, the light flashes for 1 minute then the engine shuts down.

- INSTRUCTIONS DE MISE EN ROUTE 1. Vérifier les niveaux d'huile et de liquide de combustible. 2. Vérifier et nationar la fitte à air.
- Ouvrir le robinet de service gaz de la bouteille en tournant dans le sens invers d'ur
  Mettre la clé en position de démarrage (START) et ensuite la lâcher.
  No lamme la démarrage (START) et ensuite la lâcher.
- FONCTIONNEMENT
- One fois que le moteur come, laisser s'ecourer une persoue de so seconces pour huile de chautier.
   Avant d'embrayer, le disque de polissage doit être libre - ne pas sur le sol.
   Embrayer en appuyant sur le levier de commande de la polisseuse.
- Commencer le polissage avancer la machine très l

**Total Engine** 

Hours

- POUR ARRÊTER LE MOTE 1. Fermer le robinet de gaz
- sens horaire. Lorsque le moteur s'arrête, amener la clé en
- position "OFF", en tournant. 3. La bouteille doit être stockée à l'exterieur e

#### RED SafeSense SERVICE:

SPEEDST \*R

If carbon monoxide levels exceed a pre-set level, the light will flash. The machine will shut down after the light flashes continuously for one minute. If the machine does not operate normally after the engine air filter is checked and cleaned, it must be serviced by a qualified technician.

#### YELLOW SafeSense ALERT:

ALERT ANOMALIE ADVENTENCIA

oneer Ecl

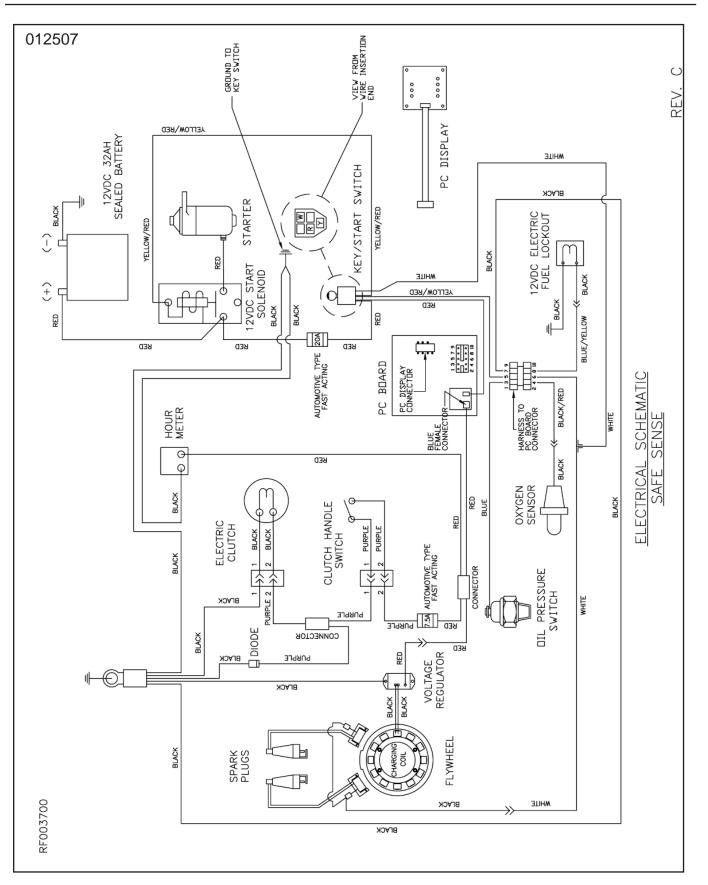
If light comes on during normal operation, check and clean the engine air filter. Check the carburetor air filter for holes, tears, or punctures and replace if damaged. If the light still remains on, the machine must be serviced by a qualified technician.

STARTER SWITCH: Switch is used to start the engine. To shut the engine down, turn off the gas. When the engine stops, turn the switch to "OFF".

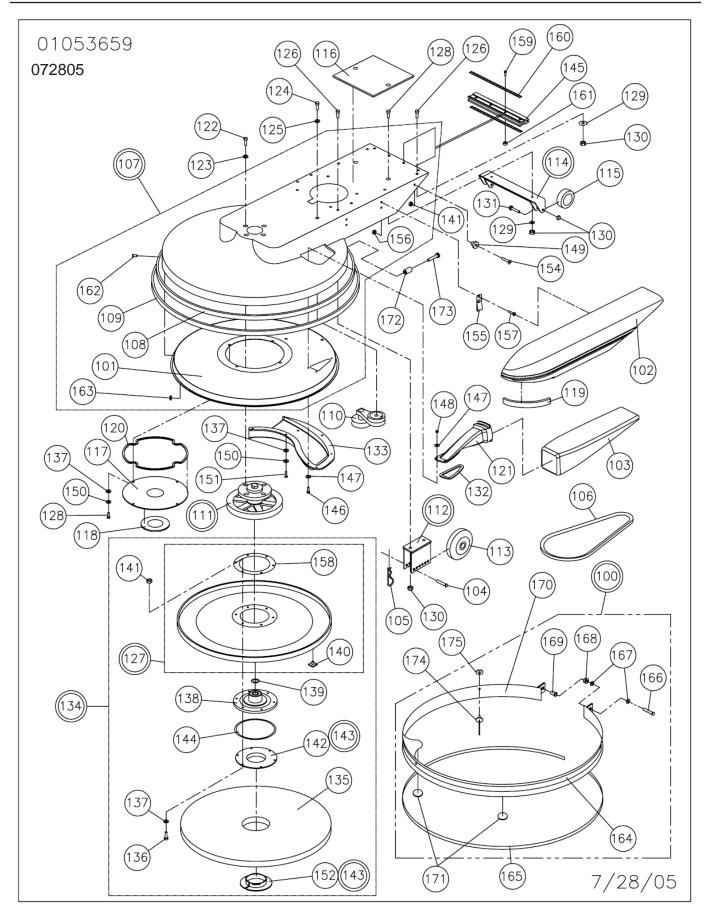
SAFESENSE\*

NOTE: Any light that is on when the engine stops will remain illuminated for 20 seconds to indicate the reason for machine shut down.

# Wiring Diagram/Schematic: ST21KWA/E, ST24KWA/E, ST28KWA/E



## Deck Sub-Assembly: SpeedStar

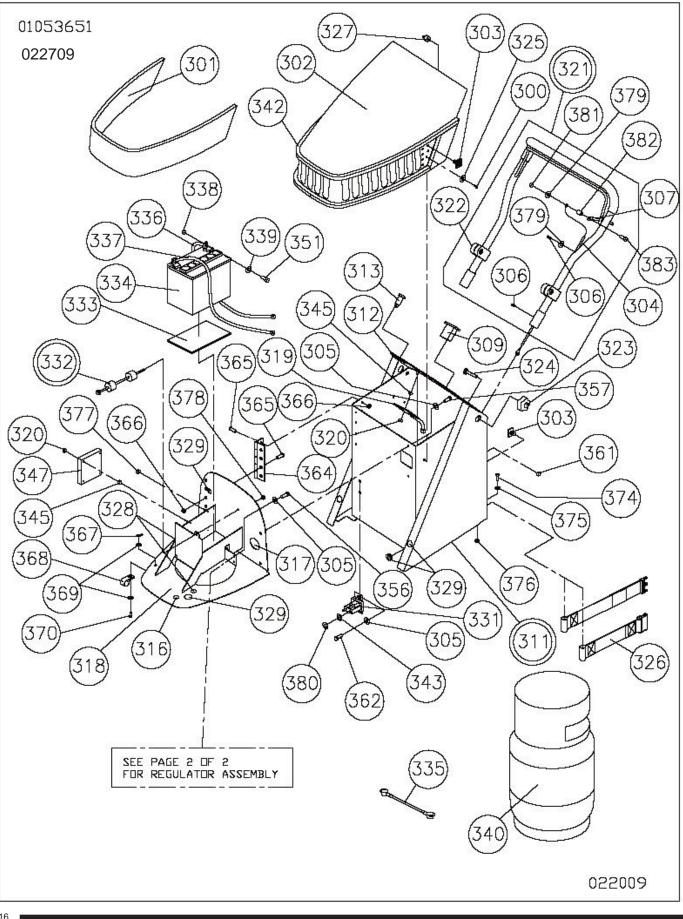


# Deck Sub-Assembly: SpeedStar

REF      PART#      DESCRIPTION      QTY        100      MP139200      Skirt, Steel, 21", Assy      1        MP139300      Skirt, Steel, 24", Assy      1        101      MP125200      Liner, Shroud, 21" ST, Machined      1        102      MP067300      Liner, Shroud, 24" ST, Machined      1        102      MP067400      Cover, Bag, Vacuum, ST      1        103      MP065300      Bag, Vacuum, ST      1        104      MP0838100      Pin, Clevis, 3/8 x 2-1/8      2        105      LX2105      Clip, Hitch, Pin      2        106      MP870      Belt, BX-46 (21")      1        MP041000      Bett, BX-46 (24")      1        MP067200      Deck, ST24KWA, vacuum      1        MP067200      Deck, ST24KWA, wacuum      1        MP067300      Texsioner, Belt, w/4" Pulley      1        110      MP071800      Tensioner, Belt, w/4" Pulley				
MP139300      Skirt, Steel, 24", Assy      1        MP139400      Skirt, Steel, 28", Assy      1        I01      MP125200      Liner, Shroud, 24" ST, Machined      1        MP066801      Liner, Shroud, 24" ST, Machined      1        I02      MP067400      Cover, Bag, Vacuum, ST      1        I03      MP065300      Bag, Vacuum, ST      1        I04      MP038100      Pin, Clevis, 3/8 x 2-1/8      2        I05      LX2105      Clip, Hitch, Pin      2        I06      MP8070      Belt, BX-46 (21")      1        MP041000      Belt, BX-46 (24")      1        I07      MP034101      Deck, ST21KWA, Painted, Comp.      1        MP067200      Deck, ST24KWA, vacuum      MP067300      Z4 yd        I08      MP3000      Velcro, Hook, 1" w/Adh, 21"      2.1 yd        28"      2.4 yd      1        I10      MP071800      Tensioner, Belt, w/4" Pulley      1        I11      MP107700      Spindle, w/6.75" Pulley, Asm. (24")      1        MP068300      Bracket, Wheel, ST21, Asm.      2        MP06		PART#		QTY
MP139400      Skirt, Steel, 28", Assy      1        101      MP125200      Liner, Shroud, 24" ST, Machined      1        102      MP067400      Cover, Bag, Vacuum, ST      1        103      MP067300      Bag, Vacuum, ST      1        104      MP038100      Pin, Clevis, 3/8 x 2-1/8      2        105      LX2105      Clip, Hitch, Pin      2        106      MP8070      Belt, BX-46 (21")      1        107      MP041000      Belt, BX-46 (24")      1        107      MP034101      Deck, ST24KWA, vacuum      1        108      MP8070      Deck, ST24KWA, vacuum      1        108      MP8300      Velcro, Hook, 1" w/Adh, 21"      2.1 yd        24"      2.3 yd      24"      2.3 yd      24"        28"      2.4 yd      1      11      MP071800      Tensiner, Belt, w/4" Pulley      1        111      MP071800      Tensiner, Belt, w/4" Pulley, Asm. (21")      1      MP7235      Spindle, w/6.75" Pulley, Asm. (28")      1        111      MP068300      Bracket, Wheel, ST21, Asm. 2      MP069000	100		Skirt, Steel, 21", Assy	-
101      MP125200      Liner, Shroud, 24" ST, Machined      1        102      MP067300      Cover, Bag, Vacuum, ST      1        103      MP065300      Bag, Vacuum, ST      1        104      MP083100      Pin, Clevis, 3/8 x 2-1/8      2        105      LX2105      Clip, Hitch, Pin      2        106      MP8070      Belt, BX-46 (21")      1        MP041000      Belt, BX-46 (24")      1        107      MP034101      Deck, ST24KWA, Vac, Pridt, Comp.      1        MP067200      Deck, ST24KWA, Vac, Pridt, Comp.      1        108      MP8300      Velcro, Hook, 1" w/Adh, 21"      2.1 yd        24"      2.3 yd      28"      2.4 yd        109      MP139600      Felt, Polyester, 29 oz Black, 21"      6.25'        24"      7'      2.8"      8'        110      MP071800      Tensioner, Belt, w/4" Pulley      1        111      MP107700      Spindle, w/6.75" Pulley, Asm. (24")      1        MP068300      Bracket, Wheel, Stz1, Asm.      2        MP064900      Bracket, Wheel, Stz1, Asm.      2 <td></td> <td></td> <td>Skirt, Steel, 24", Assy</td> <td></td>			Skirt, Steel, 24", Assy	
MP073300      Liner, Shroud, 28" ST, Machined      1        102      MP065300      Bag, Vacuum, ST      1        103      MP065300      Bag, Vacuum, ST      1        104      MP038100      Pin, Clevis, 3/8 x 2-1/8      2        105      LX2105      Clip, Hitch, Pin      2        106      MP8070      Bett, BX-46 (21")      1        MP041000      Bett, BX-46 (24")      1        107      MP041000      Bett, BX-46 (24")      1        108      MP8300      Deck, ST24KWA, vacuum      1        MP067300      Deck, ST28KWA, w/vac, Pntd., Comp. 1      MP067300        108      MP8300      Velcro, Hook, 1" w/Adh, 21"      2.1 yd        24"      2.3 yd      24"      2.3 yd        28"      24"      7'      28"      8''        101      MP071800      Tensioner, Belt, w/4" Pulley      1        111      MP107700      Spindle, w/6.75" Pulley, Asm. (24")      1        MP064300      Bracket, Wheel, ST24, Asm.      2        MP064300      Bracket, Wheel, ST24, Asm.      2				
MP066801      Liner, Shroud, 28" ST, Machined      1        102      MP067400      Cover, Bag, Vacuum, ST      1        103      MP065300      Bag, Vacuum, ST      1        104      MP038100      Pin, Clevis, 3/8 x 2-1/8      2        105      LX2105      Clip, Hitch, Pin      2        106      MP8070      Belt, BX-46 (21")      1        MP041000      Belt, BX-49 (24")      1        MP067200      Deck, ST21KWA, Painted, Comp.      1        MP067200      Deck, ST28KWA, w/vac, Pntd., Comp.      1        MP067300      Deck, ST28KWA, wixe, Pntd., Comp.      1        108      MP8300      Velcro, Hook, 1" w/Adh, 21"      2.1 yd        24"      2.3 yd      28"      2.4 yd        109      MP139600      Felt, Polyester, 29 oz Black, 21"      6.25'        24"      7'      28"      11      111      MP107700      Spindle, w/6.75" Pulley, Asm. (24")      1        MP7240      Spindle, w/8.75" Pulley, Asm. (24")      1      MP064900      Bracket, Wheel, ST24, Asm.      2        112      MP068300      Bracket, Wh	101			-
102      MP067400      Cover, Bag, Vacuum, ST      1        103      MP065300      Bag, Vacuum, ST      1        104      MP083100      Pin, Clevis, 3/8 x 2-1/8      2        105      LX2105      Clip, Hitch, Pin      2        106      MP8070      Belt, BX-46 (21")      1        11      MP041000      Belt, BX-46 (24")      1        107      MP034101      Deck, ST21KWA, Painted, Comp.      1        107      MP067200      Deck, ST24KWA, vacuum      1        108      MP8300      Velcro, Hook, 1" w/Adh, 21"      2.1 yd        24"      2.3 yd      2.4 yd      10        109      MP139600      Felt, Polyester, 29 oz Black, 21"      6.2 4yd        10      MP071800      Tensioner, Belt, w/4" Pulley      1        111      MP107700      Spindle, w/6.75" Pulley, Asm. (24")      1        112      MP064900      Bracket, Wheel, ST21, Asm.      2        114      MP042900      Bracket, Wheel, ST24, Asm.      2        115      MP063900      Tank Pad      1        117      MP				
103      MP065300      Bag, Vacuum, ST      1        104      MP038100      Pin, Clevis, 3/8 x 2-1/8      2        105      LX2105      Clip, Hitch, Pin      2        106      MP8070      Belt, BX-46 (21")      1        MP041000      Belt, BX-46 (21")      1        107      MP034101      Deck, ST24KWA, Vacuum      1        MP067200      Deck, ST24KWA, vacuum      1        MP067300      Deck, ST24KWA, vacuum      1        108      MP8300      Velcro, Hook, 1" w/Adh, 21"      2.1 yd        24"      2.3 yd      2.4 yd        109      MP139600      Felt, Polyester, 29 oz Black, 21"      6.25'        24"      24"      7'      28"      11        MP107700      Spindle, w/7.5" Pulley, Asm. (24")      1        MP7235      Spindle, w/7.5" Pulley, Asm. (24")      1        MP064900      Bracket, Wheel, ST24, Asm.      2        MP064900      Bracket, Wheel, Rear, Asm.      1        115      MP038700      Wheel, 3", Grey      2        114      MP042900      Bracket, Wheel, Rear	100			
104      MP038100      Pin, Clevis, 3/8 x 2-1/8      2        105      LX2105      Clip, Hitch, Pin      2        106      MP8070      Belt, BX-46 (21")      1        MP041000      Belt, BX-49 (24")      1        MP041000      Belt, BX-49 (24")      1        107      MP034101      Deck, ST21KWA, Painted, Comp.      1        108      MP8300      Deck, ST28KWA, wivac, Pntd., Comp.1      1        108      MP8300      Velcro, Hook, 1" w/Adh, 21"      2.1 yd        24"      2.3 yd      28"      2.4 yd        109      MP139600      Feit, Polyester, 29 oz Black, 21"      6.25"        24"      2.3 yd      28"      8'        110      MP071800      Tensioner, Belt, w/4" Pulley      1        111      MP107700      Spindle, w/6.75" Pulley, Asm. (24")      1        112      MP068300      Bracket, Wheel, ST24, Asm.      2        MP064900      Bracket, Wheel, ST24, Asm.      2      1        112      MP06300      Bracket, Wheel, Rear, Asm.      1        115      MP038700      Wheet, 3				
105      LX2105      Clip, Hitch, Pin      2        106      MP8070      Belt, BX-46 (21")      1        MP8049      Belt, BX-49 (24")      1        107      MP034101      Deck, ST24KWA, Painted, Comp.      1        107      MP067200      Deck, ST24KWA, vacuum      1        108      MP8300      Velcro, Hook, 1" w/Adh, 21"      2.1 yd        24"      2.3 yd      24"      2.3 yd        109      MP139600      Felt, Polyester, 29 oz Black, 21"      6.25'        24"      2.3 yd      2.4 yd      1        109      MP071800      Tensioner, Belt, w/4" Pulley      1        111      MP107700      Spindle, w/6.75" Pulley, Asm. (24")      1        MP12535      Spindle, w/7.25" Pulley, Asm. (24")      1        MP064900      Bracket, Wheel, ST24, Asm.      2        MP06300      Bracket, Wheel, Extended, 28"      2        113      MP105300      Wheel, 5", Performa, Flat Tread, Grey 2        114      MP042900      Bracket, Wheel, Rear, Asm.      1        115      MP038900      Tank Pad      1				
106      MP8070      Belt, BX-46 (21")      1        MP041000      Belt, BX-46 (24")      1        107      MP034101      Deck, ST21KWA, Painted, Comp.      1        107      MP03700      Deck, ST21KWA, Painted, Comp.      1        108      MP8300      Velcro, Hook, 1" w/Adh, 21"      2.1 yd        28"      2.4 yd      2.3 yd      2.4 yd        109      MP139600      Felt, Polyester, 29 oz Black, 21"      6.25'        24"      28"      8'        110      MP071800      Tensioner, Belt, w/4" Pulley      1        111      MP107700      Spindle, w/6.75" Pulley, Asm. (24")      1        MP7240      Spindle, w/8.75" Pulley, Asm. (24")      1        MP064900      Bracket, Wheel, ST21, Asm.      2        MP069000      Bracket, Wheel, ST24, Asm.      2        112      MP063000      Bracket, Wheel, Rear, Asm.      1        115      MP038900      Tank Pad      1        116      MP038900      Tank Pad      1        117      MP125300      Cover, Pulley, ST21KWA      1        1				
MP8049      Belt, BX-49 (24")      1        MP041000      Belt, BX-56 (28")      1        107      MP034101      Deck, ST21KWA, Painted, Comp. 1        108      MP8300      Deck, ST24KWA, vacuum      1        108      MP8300      Deck, ST24KWA, vacuum      1        108      MP8300      Deck, ST24KWA, vacuum      1        109      MP139600      Felt, Polyester, 29 oz Black, 21"      6.25'        24"				
MP041000      Belt, BX-56 (28")      1        107      MP034101      Deck, ST21KWA, Painted, Comp.      1        MP067200      Deck, ST24KWA, vacuum      1        108      MP8300      Velcro, Hook, 1" w/Adh, 21"      2.1 yd        24"      2.3 yd      28"      2.4 yd        109      MP139600      Felt, Polyester, 29 oz Black, 21"      6.25'        24"      24"      7'      28"        110      MP071800      Tensioner, Belt, w/4" Pulley      1        111      MP107700      Spindle, w/6.75" Pulley, Asm. (24")      1        MP7235      Spindle, w/8.75" Pulley, Asm. (28")      1        112      MP068300      Bracket, Wheel, ST21, Asm.      2        MP064900      Bracket, Wheel, ST24, Asm.      2      1        MP06300      Bracket, Wheel, Rear, Asm.      1      1        115      MP038700      Wheel, ST24KWA      1        116      MP042900      Bracket, Wheel, Rear, Asm.      1        117      MP125300      Cover, Pulley, ST24KWA      1        118      MP068000      Cover, Pulley, ST24KW	106			-
107      MP034101      Deck, ST21KWA, Painted, Comp.      1        MP067200      Deck, ST24KWA, vacuum      1        108      MP8300      Velcro, Hook, 1" w/Adh, 21"      2.1 yd        24"      2.3 yd      2.3 yd        28"      2.4 yd        109      MP139600      Felt, Polyester, 29 oz Black, 21"      6.25'        24"      7'      28"      8'        110      MP071800      Tensioner, Belt, w/4" Pulley      1        111      MP107700      Spindle, w/6.75" Pulley, Asm. (21")      1        MP7240      Spindle, w/7.25" Pulley, Asm. (28")      1        112      MP068300      Bracket, Wheel, ST21, Asm.      2        MP064900      Bracket, Wheel, ST24, Asm.      2      1        MP064900      Bracket, Wheel, Rear, Asm.      1      1        115      MP038700      Wheel, 5", Performa, Flat Tread, Grey 2      1        114      MP042900      Bracket, Wheel, Rear, Asm.      1        117      MP125300      Cover, Pulley, ST21KWA      1        MP068000      Seal, Spindle, 2.415"ID x 4.5"OD      (24" & 28")				
MP067200      Deck, ST24KWA, vacuum      1        MP067300      Deck, ST28KWA, w/vac, Pntd., Comp.1        108      MP8300      Velcro, Hook, 1" w/Adh, 21"      2.1 yd        28"      2.3 yd      28"      2.4 yd        109      MP139600      Felt, Polyester, 29 oz Black, 21"      6.25'        24"      7'      28"      8'        110      MP071800      Tensioner, Belt, w/4" Pulley      1        111      MP107700      Spindle, w/6.75" Pulley, Asm. (24")      1        112      MP068000      Bracket, Wheel, ST21, Asm.      2        MP064900      Bracket, Wheel, ST24, Asm.      2      1        MP069000      Bracket, Wheel, Rear, Asm.      1      1        115      MP06300      Bracket, Wheel, Rear, Asm.      1        115      MP038900      Tank Pad      1        117      MP125300      Cover, Pulley, ST21KWA      1        MP068000      Seal, Spindle, 1.01"ID x 3.75"OD (21") 1      MP065100      Seal, Spindle, 2.415"ID x 4.5"OD        (24" & 28")      1      1      1      1        118 <td< td=""><td>107</td><td></td><td></td><td></td></td<>	107			
MP067300      Deck, ST28KWA, w/vac, Pntd., Comp.1        108      MP8300      Velcro, Hook, 1" w/Adh, 21"      2.1 yd        24"      2.3 yd        109      MP139600      Felt, Polyester, 29 oz Black, 21"      6.25'        24"      7'      28"      8'        110      MP071800      Tensioner, Belt, w/4" Pulley      1        111      MP107700      Spindle, w/6.75" Pulley, Asm. (24")      1        MP7235      Spindle, w/8.75" Pulley, Asm. (24")      1        MP068300      Bracket, Wheel, ST21, Asm.      2        MP064900      Bracket, Wheel, Extended, 28"      2        113      MP105300      Wheel, 5", Performa, Flat Tread, Grey 2      2        114      MP042900      Bracket, Wheel, Rear, Asm.      1        115      MP038900      Tank Pad      1        117      MP125300      Cover, Pulley, ST21KWA      1        117      MP068000      Seal, Spindle, 2.415"ID x 4.5"OD      (24" & 28")        118      MP065100      Seal, Spindle, 2.415"ID x 4.5"OD      (24" & 28")      1        119      MP047800      Seal, Spindle, 2.415"	107			
108      MP8300      Velcro, Hook, 1" w/Adh, 21"      2.1 yd        24"      2.3 yd        109      MP139600      Felt, Polyester, 29 oz Black, 21"      6.25'        24"      7'      28"      8'        110      MP071800      Tensioner, Belt, w/4" Pulley      1        111      MP107700      Spindle, w/6.75" Pulley, Asm. (21")      1        MP7235      Spindle, w/8.75" Pulley, Asm. (22")      1        112      MP068300      Bracket, Wheel, ST21, Asm.      2        MP069000      Bracket, Wheel, ST24, Asm.      2      2        113      MP105300      Wheel, 5", Performa, Flat Tread, Grey 2      2        114      MP042900      Bracket, Wheel, Rear, Asm.      1        115      MP03800      Cover, Pulley, ST24KWA      1        MP073400      Cover, Pulley, ST24KWA      1      1        MP065000      Seal, Spindle, 1.01"ID x 3.75"OD (21")1      MP065100      Seal, Spindle, 1.2" x 38" x 1/4" T        120      MP075200      Foam, Skinned, 1/2" x 38" x 1/4" T      1      1        120      MP07500      Teal, Foam, 3/8" T x 3/4" W				•
24"      2.3 yd        28"      2.4 yd        109      MP139600      Felt, Polyester, 29 oz Black, 21"      6.25'        24"      7'      28"      8'        110      MP071800      Tensioner, Belt, w/4" Pulley      1        111      MP107700      Spindle, w/6.75" Pulley, Asm. (21")      1        MP7235      Spindle, w/8.75" Pulley, Asm. (22")      1        112      MP068300      Bracket, Wheel, ST21, Asm.      2        MP064900      Bracket, Wheel, ST24, Asm.      2      2        113      MP105300      Wheel, 5", Performa, Flat Tread, Grey 2      1        114      MP042900      Bracket, Wheel, Rear, Asm.      1        115      MP038900      Tank Pad      1        117      MP125300      Cover, Pulley, ST21KWA      1        MP065100      Seal, Spindle, 1.01"ID x 3.75"OD (21") 1      MP065100      Seal, Spindle, 2.415"ID x 4.5"OD        119      MP047800      Seal, Foam, 3/8" T x 3/4" W      1      1        120      MP075200      Foam, Skinned, 1/2" x 38" x 1/4" T      1        121      MP067600	108			
28"      2.4 yd        109      MP139600      Felt, Polyester, 29 oz Black, 21"      6.25' 24"        28"      8'        110      MP071800      Tensioner, Belt, w/4" Pulley      1        111      MP107700      Spindle, w/6.75" Pulley, Asm. (21")      1        MP7235      Spindle, w/8.75" Pulley, Asm. (24")      1        MP064900      Bracket, Wheel, ST21, Asm.      2        MP064900      Bracket, Wheel, ST24, Asm.      2        MP069000      Bracket, Wheel, ST24, Asm.      2        113      MP105300      Wheel, S", Performa, Flat Tread, Grey 2        114      MP042900      Bracket, Wheel, Rear, Asm.      1        115      MP03800      Cover, Pulley, ST21KWA      1        MP073400      Cover, Pulley, ST24KWA      1        MP065000      Seal, Spindle, 1.01"ID x 3.75"OD (21")1      MP065100      Seal, Spindle, 2.415"ID x 4.5"OD        118      MP067600      Seal, Foam, 3/8" T x 3/4" W      1        120      MP075200      Foam, Skinned, 1/2" x 38" x 1/4" T      1        121      MP067600      Tube, Dust, SpeedStar      1 <t< td=""><td>100</td><td>WI 0300</td><td></td><td></td></t<>	100	WI 0300		
109      MP139600      Felt, Polyester, 29 oz Black, 21"      6.25'        24"      7'      28"      8'        110      MP071800      Tensioner, Belt, w/4" Pulley      1        111      MP107700      Spindle, w/6.75" Pulley, Asm. (21")      1        MP7235      Spindle, w/7.25" Pulley, Asm. (24")      1        MP7240      Spindle, w/8.75" Pulley, Asm. (28")      1        112      MP068300      Bracket, Wheel, ST21, Asm.      2        MP06900      Bracket, Wheel, ST24, Asm.      2        113      MP05300      Wheel, 5", Performa, Flat Tread, Grey 2      2        114      MP042900      Bracket, Wheel, Rear, Asm.      1        115      MP038700      Wheel, 3", Grey      2        116      MP038900      Tank Pad      1        117      MP125300      Cover, Pulley, ST24KWA      1        MP065000      Seal, Spindle, 1.01"ID x 3.75"OD (21") 1      MP065100      Seal, Spindle, 2.415"ID x 4.5"OD (24" & 28")      1        120      MP047800      Seal, Foam, 3/8" T x 3/4" W      1      1        121      MP067600      Tube, Dust, Speed				
24"      7'        28"      8'        110      MP071800      Tensioner, Belt, w/4" Pulley      1        111      MP107700      Spindle, w/6.75" Pulley, Asm. (21")      1        MP7235      Spindle, w/7.25" Pulley, Asm. (22")      1        112      MP068300      Bracket, Wheel, ST21, Asm.      2        MP064900      Bracket, Wheel, ST24, Asm.      2        113      MP105300      Wheel, 5", Performa, Flat Tread, Grey 2        114      MP042900      Bracket, Wheel, Rear, Asm.      1        115      MP03800      Tank Pad      1        117      MP125300      Cover, Pulley, ST21KWA      1        MP065000      Seal, Spindle, 2.415"ID x 4.5"OD (21")1      MP065100      Seal, Spindle, 2.415"ID x 4.5"OD (21")1        MP065100      Seal, Foam, 3/8" T x 3/4" W      1      1        120      MP075200      Foam, Skinned, 1/2" x 38" x 1/4" T      1        121      MP067600      Tube, Dust, SpeedStar      1        122      NB6864      Bolt, Hex, 1/2 x 1 1/4, NC      4        123      NB9269      Washer, Flat, 3/8      5 <td>109</td> <td>MP139600</td> <td></td> <td></td>	109	MP139600		
28"      8'        110      MP071800      Tensioner, Belt, w/4" Pulley      1        111      MP107700      Spindle, w/6.75" Pulley, Asm. (21")      1        MP7240      Spindle, w/7.25" Pulley, Asm. (24")      1        MP7240      Spindle, w/8.75" Pulley, Asm. (28")      1        112      MP068300      Bracket, Wheel, ST21, Asm.      2        MP064900      Bracket, Wheel, ST24, Asm.      2        113      MP105300      Wheel, 5", Performa, Flat Tread, Grey 2      1        114      MP042900      Bracket, Wheel, Rear, Asm.      1        115      MP038700      Wheel, 3", Grey      2        116      MP038900      Tank Pad      1        117      MP125300      Cover, Pulley, ST21KWA      1        MP065000      Seal, Spindle, 2.415"ID x 4.5"OD      (24" & 28")      1        118      MP065000      Seal, Foam, 3/8" T x 3/4" W      1        120      MP075200      Foam, Skinned, 1/2" x 38" x 1/4" T      1        121      MP067600      Tube, Dust, SpeedStar      1        122      NB8664      Bolt, Hex, 1/2 x 1 1/4,				
110      MP071800      Tensioner, Belt, w/4" Pulley      1        111      MP107700      Spindle, w/6.75" Pulley, Asm. (21")      1        MP7240      Spindle, w/7.25" Pulley, Asm. (22")      1        112      MP068300      Bracket, Wheel, ST21, Asm.      2        MP064900      Bracket, Wheel, ST24, Asm.      2        MP069000      Bracket, Wheel, Extended, 28"      2        113      MP105300      Wheel, 5", Performa, Flat Tread, Grey 2        114      MP042900      Bracket, Wheel, Rear, Asm.      1        115      MP03800      Tank Pad      1        117      MP125300      Cover, Pulley, ST21KWA      1        118      MP065000      Seal, Spindle, 1.01"ID x 3.75"OD (21") 1      MP065100        118      MP065000      Seal, Spindle, 2.415"ID x 4.5"OD (24" & 28")      1        119      MP047800      Seal, Foam, 3/8" T x 3/4" W      1        120      MP075200      Foam, Skinned, 1/2" x 38" x 1/4" T      1        121      MP067600      Tube, Dust, SpeedStar      1        122      NB6864      Bolt, Hex, 1/2 x 1 1/4, NC      4				8'
111      MP107700      Spindle, w/6.75" Pulley, Asm. (21")      1        MP7235      Spindle, w/7.25" Pulley, Asm. (24")      1        MP7240      Spindle, w/8.75" Pulley, Asm. (28")      1        112      MP068300      Bracket, Wheel, ST21, Asm.      2        MP069000      Bracket, Wheel, ST24, Asm.      2        113      MP105300      Wheel, ST24, Asm.      2        113      MP105300      Wheel, ST24, Asm.      1        115      MP042900      Bracket, Wheel, Rear, Asm.      1        115      MP038700      Wheel, 3", Grey      2        116      MP038900      Tank Pad      1        117      MP125300      Cover, Pulley, ST24KWA      1        MP065000      Seal, Spindle, 1.01"ID x 3.75"OD (21")1      MP065100        MP065100      Seal, Spindle, 2.415"ID x 4.5"OD (24")1      1        120      MP075200      Foam, Skinned, 1/2" x 38" x 1/4" T      1        121      MP067600      Tube, Dust, SpeedStar      1        122      NB6864      Bolt, Hex, 1/2 x 1 1/4, NC      4        123      NB9269      Washer, Flat,	110	MP071800	Tensioner, Belt, w/4" Pulley	
MP7235      Spindle, w/7.25" Pulley, Asm. (24")      1        MP7240      Spindle, w/8.75" Pulley, Asm. (28")      1        112      MP068300      Bracket, Wheel, ST21, Asm.      2        MP069000      Bracket, Wheel, ST21, Asm.      2        MP069000      Bracket, Wheel, ST24, Asm.      2        113      MP105300      Wheel, S", Performa, Flat Tread, Grey 2        114      MP042900      Bracket, Wheel, Rear, Asm.      1        115      MP038700      Wheel, 3", Grey      2        116      MP038900      Tank Pad      1        117      MP125300      Cover, Pulley, ST21KWA      1        MP068600      Cover, Pulley, ST28KWA      1        118      MP065000      Seal, Spindle, 1.01"ID x 3.75"OD (21") 1        MP065100      Seal, Spindle, 2.415"ID x 4.5"OD      (24" & 28")        119      MP047800      Seal, Foam, 3/8" T x 3/4" W      1        120      MP075200      Foam, Skinned, 1/2" x 38" x 1/4" T      1        121      MP067600      Tube, Dust, SpeedStar      1        122      NB8664      Bolt, Hex, 1/2 x 1 1/4, NC      4				1
MP7240      Spindle, w/8.75"      Pulley, Asm. (28")      1        112      MP068300      Bracket, Wheel, ST21, Asm.      2        MP069000      Bracket, Wheel, ST21, Asm.      2        113      MP105300      Wheel, ST24, Asm.      2        114      MP042900      Bracket, Wheel, Rear, Asm.      1        115      MP038700      Wheel, 3", Grey      2        116      MP038900      Tank Pad      1        117      MP125300      Cover, Pulley, ST21KWA      1        MP068600      Cover, Pulley, ST24KWA      1      1        MP065100      Seal, Spindle, 1.01"ID x 3.75"OD (21") 1      MP065100      Seal, Spindle, 2.415"ID x 4.5"OD (24" & 28")        119      MP047800      Seal, Foam, 3/8" T x 3/4" W      1        120      MP075200      Foam, Skinned, 1/2" x 38" x 1/4" T      1        121      MP067600      Tube, Dust, SpeedStar      1        122      NB6864      Bolt, Hex, 1/2 x 1 1/4, NC      4        123      NB9269      Washer, Flat, 3/8      5        126      NB5282      Screw, Cap, 3/8 x 1 1/4      1 <td></td> <td>MP7235</td> <td></td> <td>1</td>		MP7235		1
MP064900      Bracket, Wheel, ST24, Asm.      2        113      MP105300      Bracket, Wheel, Extended, 28"      2        113      MP105300      Wheel, 5", Performa, Flat Tread, Grey 2      1        114      MP042900      Bracket, Wheel, Rear, Asm.      1        115      MP038700      Wheel, 3", Grey      2        116      MP038900      Tank Pad      1        117      MP125300      Cover, Pulley, ST21KWA      1        MP073400      Cover, Pulley, ST24KWA      1        MP065000      Seal, Spindle, 1.01"ID x 3.75"OD (21") 1      MP065100        MP065100      Seal, Spindle, 2.415"ID x 4.5"OD (24" & 28")      1        119      MP047800      Seal, Foam, 3/8" T x 3/4" W      1        120      MP075200      Foam, Skinned, 1/2" x 38" x 1/4" T      1        121      MP067600      Tube, Dust, SpeedStar      1        122      NB8664      Bolt, Hex, 1/2 x 1 1/4, NC      4        123      NB9269      Washer, Flat, 3/8      5        126      NB5282      Screw, Cap, 3/8 x 1 1/4      1        127      SA003900		MP7240		
MP069000      Bracket, Wheel, Extended, 28"      2        113      MP105300      Wheel, 5", Performa, Flat Tread, Grey 2        114      MP042900      Bracket, Wheel, Rear, Asm.      1        115      MP038700      Wheel, 3", Grey      2        116      MP038900      Tank Pad      1        117      MP125300      Cover, Pulley, ST21KWA      1        MP073400      Cover, Pulley, ST24KWA      1        MP068600      Cover, Pulley, ST28KWA      1        118      MP065000      Seal, Spindle, 1.01"ID x 3.75"OD (21") 1        MP065100      Seal, Spindle, 2.415"ID x 4.5"OD      (24" & 28")        119      MP047800      Seal, Foam, 3/8" T x 3/4" W      1        120      MP075200      Foam, Skinned, 1/2" x 38" x 1/4" T      1        121      MP067600      Tube, Dust, SpeedStar      1        122      NB6864      Bolt, Hex, 1/2 x 1 1/4, NC      4        123      NB9269      Washer, Flat, 3/8      5        126      NB5282      Screw, Cap, 3/8 x 1 1/4      1        127      SA003900      Padholder, 24", w/Studs only      <	112	MP068300	Bracket, Wheel, ST21, Asm.	2
113      MP105300      Wheel, 5", Performa, Flat Tread, Grey 2        114      MP042900      Bracket, Wheel, Rear, Asm.      1        115      MP038700      Wheel, 3", Grey      2        116      MP038900      Tank Pad      1        117      MP125300      Cover, Pulley, ST21KWA      1        MP073400      Cover, Pulley, ST24KWA      1        MP068600      Cover, Pulley, ST28KWA      1        118      MP065000      Seal, Spindle, 1.01"ID x 3.75"OD (21") 1        MP065100      Seal, Spindle, 2.415"ID x 4.5"OD        (24" & 28")      1        120      MP047800      Seal, Foam, 3/8" T x 3/4" W      1        121      MP067600      Tube, Dust, SpeedStar      1        122      NB6864      Bolt, Hex, 1/2 x 1 1/4, NC      4        123      NB9269      Washer, Flat, 7/16      4        124      NB6044      Screw, Cap, 3/8 x 1 1/4      1        125      NB3450      Washer, 24", w/Studs only      1        126      NB5282      Screw, BH, 5/16-18 x 1      10        127      SA003900      Pa		MP064900		
114      MP042900      Bracket, Wheel, Rear, Asm.      1        115      MP038700      Wheel, 3", Grey      2        116      MP038900      Tank Pad      1        117      MP125300      Cover, Pulley, ST21KWA      1        MP073400      Cover, Pulley, ST24KWA      1        MP068600      Cover, Pulley, ST28KWA      1        118      MP065000      Seal, Spindle, 1.01"ID x 3.75"OD (21") 1        MP065100      Seal, Spindle, 2.415"ID x 4.5"OD        (24" & 28")      1        120      MP047800      Seal, Foam, 3/8" T x 3/4" W        121      MP067600      Tube, Dust, SpeedStar        122      NB6864      Bolt, Hex, 1/2 x 1 1/4, NC      4        123      NB9269      Washer, Flat, 7/16      4        124      NB6044      Screw, Cap, 3/8 x 1 1/4      1        125      NB3450      Washer, Flat, 3/8      5        126      NB5282      Screw, BH, 5/16-18 x 1      10        127      SA003900      Padholder, 24", w/Studs only      1        SA007800      Padholder, 28", w/Studs only      1 <td></td> <td></td> <td></td> <td></td>				
115      MP038700      Wheel, 3", Grey      2        116      MP038900      Tank Pad      1        117      MP125300      Cover, Pulley, ST21KWA      1        117      MP073400      Cover, Pulley, ST24KWA      1        118      MP068600      Cover, Pulley, ST28KWA      1        118      MP065000      Seal, Spindle, 1.01"ID x 3.75"OD (21") 1      MP065100        MP065100      Seal, Spindle, 2.415"ID x 4.5"OD      (24" & 28")      1        119      MP047800      Seal, Foam, 3/8" T x 3/4" W      1        120      MP075200      Foam, Skinned, 1/2" x 38" x 1/4" T      1        121      MP067600      Tube, Dust, SpeedStar      1        122      NB6864      Bolt, Hex, 1/2 x 1 1/4, NC      4        123      NB9269      Washer, Flat, 3/8      5        126      NB5282      Screw, Cap, 3/8 x 1 1/4      1        127      SA003900      Padholder, 21", w/Studs only      1        SA007800      Padholder, 24", w/Studs only      1        SA004000      Padholder, 24", w/Studs only      1        128		MP105300		rey 2
116      MP038900      Tank Pad      1        117      MP125300      Cover, Pulley, ST21KWA      1        MP073400      Cover, Pulley, ST24KWA      1        MP068600      Cover, Pulley, ST28KWA      1        118      MP065000      Seal, Spindle, 1.01"ID x 3.75"OD (21") 1        MP065100      Seal, Spindle, 2.415"ID x 4.5"OD        (24" & 28")      1        119      MP047800      Seal, Foam, 3/8" T x 3/4" W        120      MP075200      Foam, Skinned, 1/2" x 38" x 1/4" T        121      MP067600      Tube, Dust, SpeedStar        122      NB6864      Bolt, Hex, 1/2 x 1 1/4, NC        4      123      NB9269      Washer, Flat, 7/16        4124      NB6044      Screw, Cap, 3/8 x 1 1/4      1        125      NB3450      Washer, Flat, 3/8      5        126      NB5282      Screw, BH, 5/16-18 x 1      10        127      SA003900      Padholder, 24", w/Studs only      1        SA007800      Padholder, 24", w/Studs only      1        SA004000      Padholder, 24", w/Studs only      1        128				
117      MP125300      Cover, Pulley, ST21KWA      1        MP073400      Cover, Pulley, ST24KWA      1        118      MP068600      Cover, Pulley, ST28KWA      1        118      MP065000      Seal, Spindle, 1.01"ID x 3.75"OD (21") 1        MP065100      Seal, Spindle, 2.415"ID x 4.5"OD      (24" & 28")        119      MP047800      Seal, Foam, 3/8" T x 3/4" W      1        120      MP075200      Foam, Skinned, 1/2" x 38" x 1/4" T      1        121      MP067600      Tube, Dust, SpeedStar      1        122      NB6864      Bolt, Hex, 1/2 x 1 1/4, NC      4        123      NB9269      Washer, Flat, 7/16      4        124      NB6044      Screw, Cap, 3/8 x 1 1/4      1        125      NB3450      Washer, Flat, 3/8      5        126      NB5282      Screw, BH, 5/16-18 x 1      10        127      SA003900      Padholder, 24", w/Studs only      1        SA007800      Padholder, 28", w/Studs only      1        128      NB3001      Screw, BH, 1/4-20 x 3/4      4        129      NB9267      Washer,	115	MP038700	•	
MP073400      Cover, Pulley, ST24KWA        MP068600      Cover, Pulley, ST28KWA      1        118      MP065000      Seal, Spindle, 1.01"ID x 3.75"OD (21") 1        MP065100      Seal, Spindle, 2.415"ID x 4.5"OD      (24" & 28")        119      MP047800      Seal, Foam, 3/8" T x 3/4" W      1        120      MP075200      Foam, Skinned, 1/2" x 38" x 1/4" T      1        121      MP067600      Tube, Dust, SpeedStar      1        122      NB6864      Bolt, Hex, 1/2 x 1 1/4, NC      4        123      NB9269      Washer, Flat, 7/16      4        124      NB6044      Screw, Cap, 3/8 x 1 1/4      1        125      NB3450      Washer, Flat, 3/8      5        126      NB5282      Screw, BH, 5/16-18 x 1      10        127      SA003900      Padholder, 24", w/Studs only      1        SA007800      Padholder, 28", w/Studs only      1        128      NB3001      Screw, BH, 1/4-20 x 3/4      4        129      NB9267      Washer, Flat, 5/16      12        131      NB000100      Screw, HH, 5/16-18 x 1 3/4      2				
MP068600      Cover, Pulley, ST28KWA      1        118      MP065000      Seal, Spindle, 1.01"ID x 3.75"OD (21") 1        MP065100      Seal, Spindle, 2.415"ID x 4.5"OD        (24" & 28")      1        119      MP047800      Seal, Foam, 3/8" T x 3/4" W      1        120      MP075200      Foam, Skinned, 1/2" x 38" x 1/4" T      1        121      MP067600      Tube, Dust, SpeedStar      1        122      NB6864      Bolt, Hex, 1/2 x 1 1/4, NC      4        123      NB9269      Washer, Flat, 7/16      4        124      NB6044      Screw, Cap, 3/8 x 1 1/4      1        125      NB3450      Washer, Flat, 3/8      5        126      NB5282      Screw, BH, 5/16-18 x 1      10        127      SA003900      Padholder, 24", w/Studs only      1        SA007800      Padholder, 24", w/Studs only      1        128      NB3001      Screw, BH, 1/4-20 x 3/4      4        129      NB9267      Washer, Flat, 5/16      12        131      NB000100      Screw, HH, 5/16-18 x 1 3/4      2        132	117			1
118      MP065000      Seal, Spindle, 1.01"ID x 3.75"OD (21") 1        MP065100      Seal, Spindle, 2.415"ID x 4.5"OD      (24" & 28")      1        119      MP047800      Seal, Foam, 3/8" T x 3/4" W      1        120      MP075200      Foam, Skinned, 1/2" x 38" x 1/4" T      1        121      MP067600      Tube, Dust, SpeedStar      1        122      NB6864      Bolt, Hex, 1/2 x 1 1/4, NC      4        123      NB9269      Washer, Flat, 7/16      4        124      NB6044      Screw, Cap, 3/8 x 1 1/4      1        125      NB3450      Washer, Flat, 3/8      5        126      NB5282      Screw, BH, 5/16-18 x 1      10        127      SA003900      Padholder, 24", w/Studs only      1        SA007800      Padholder, 28", w/Studs only      1        128      NB3001      Screw, BH, 1/4-20 x 3/4      4        129      NB9267      Washer, Flat, 5/16      12        131      NB000100      Screw, HH, 5/16-18 x 1 3/4      2        132      MP065200      Seal, Tube, Dust      1        133 <td< td=""><td></td><td></td><td></td><td></td></td<>				
MP065100      Seal, Spindle, 2.415"ID x 4.5"OD        (24" & 28")      1        119      MP047800      Seal, Foam, 3/8" T x 3/4" W      1        120      MP075200      Foam, Skinned, 1/2" x 38" x 1/4" T      1        121      MP067600      Tube, Dust, SpeedStar      1        122      NB6864      Bolt, Hex, 1/2 x 1 1/4, NC      4        123      NB9269      Washer, Flat, 7/16      4        124      NB6044      Screw, Cap, 3/8 x 1 1/4      1        125      NB3450      Washer, Flat, 3/8      5        126      NB5282      Screw, BH, 5/16-18 x 1      10        127      SA003900      Padholder, 24", w/Studs only      1        SA007800      Padholder, 24", w/Studs only      1        SA004000      Padholder, 28", w/Studs only      1        128      NB3001      Screw, BH, 1/4-20 x 3/4      4        129      NB9267      Washer, Flat, 5/16      6        130      NB3265      Nut, Lock, 5/16      12        131      NB000100      Screw, HH, 5/16-18 x 1 3/4      2        132      <				
(24" & 28")      1        119      MP047800      Seal, Foam, 3/8" T x 3/4" W      1        120      MP075200      Foam, Skinned, 1/2" x 38" x 1/4" T      1        121      MP067600      Tube, Dust, SpeedStar      1        122      NB6864      Bolt, Hex, 1/2 x 1 1/4, NC      4        123      NB9269      Washer, Flat, 7/16      4        124      NB6044      Screw, Cap, 3/8 x 1 1/4      1        125      NB3450      Washer, Flat, 3/8      5        126      NB5282      Screw, BH, 5/16-18 x 1      10        127      SA003900      Padholder, 21", w/Studs only      1        SA007800      Padholder, 28", w/Studs only      1        SA004000      Padholder, 28", w/Studs only      1        128      NB3001      Screw, BH, 1/4-20 x 3/4      4        129      NB9267      Washer, Flat, 5/16      6        130      NB3265      Nut, Lock, 5/16      12        131      NB000100      Screw, HH, 5/16-18 x 1 3/4      2        132      MP065200      Seal, Tube, Dust      1	118			21") 1
119      MP047800      Seal, Foam, 3/8" T x 3/4" W      1        120      MP075200      Foam, Skinned, 1/2" x 38" x 1/4" T      1        121      MP067600      Tube, Dust, SpeedStar      1        122      NB6864      Bolt, Hex, 1/2 x 1 1/4, NC      4        123      NB9269      Washer, Flat, 7/16      4        124      NB6044      Screw, Cap, 3/8 x 1 1/4      1        125      NB3450      Washer, Flat, 3/8      5        126      NB5282      Screw, BH, 5/16-18 x 1      10        127      SA003900      Padholder, 24", w/Studs only      1        SA007800      Padholder, 24", w/Studs only      1        SA004000      Padholder, 28", w/Studs only      1        128      NB3001      Screw, BH, 1/4-20 x 3/4      4        129      NB9267      Washer, Flat, 5/16      6        130      NB3265      Nut, Lock, 5/16      12        131      NB000100      Screw, HH, 5/16-18 x 1 3/4      2        132      MP065200      Seal, Tube, Dust      1        133      MP064600      Scoop, Vacuum,		MP065100		4
120      MP075200      Foam, Skinned, 1/2" x 38" x 1/4" T      1        121      MP067600      Tube, Dust, SpeedStar      1        122      NB6864      Bolt, Hex, 1/2 x 1 1/4, NC      4        123      NB9269      Washer, Flat, 7/16      4        124      NB6044      Screw, Cap, 3/8 x 1 1/4      1        125      NB3450      Washer, Flat, 3/8      5        126      NB5282      Screw, BH, 5/16-18 x 1      10        127      SA003900      Padholder, 24", w/Studs only      1        SA007800      Padholder, 24", w/Studs only      1        SA007800      Padholder, 28", w/Studs only      1        128      NB3001      Screw, BH, 1/4-20 x 3/4      4        129      NB9267      Washer, Flat, 5/16      6        130      NB3265      Nut, Lock, 5/16      12        131      NB000100      Screw, HH, 5/16-18 x 1 3/4      2        132      MP065200      Seal, Tube, Dust      1        133      MP064600      Scoop, Vacuum, SpeedStar, 24"      1        MP064800      Scoop, Vacuum, SpeedStar, 28" <td>110</td> <td>MD047000</td> <td></td> <td></td>	110	MD047000		
121      MP067600      Tube, Dust, SpeedStar      1        122      NB6864      Bolt, Hex, 1/2 x 1 1/4, NC      4        123      NB9269      Washer, Flat, 7/16      4        124      NB6044      Screw, Cap, 3/8 x 1 1/4      1        125      NB3450      Washer, Flat, 3/8      5        126      NB5282      Screw, BH, 5/16-18 x 1      10        127      SA003900      Padholder, 21", w/Studs only      1        SA007800      Padholder, 24", w/Studs only      1        SA004000      Padholder, 28", w/Studs only      1        128      NB3001      Screw, BH, 1/4-20 x 3/4      4        129      NB9267      Washer, Flat, 5/16      6        130      NB3265      Nut, Lock, 5/16      12        131      NB000100      Screw, HH, 5/16-18 x 1 3/4      2        132      MP065200      Seal, Tube, Dust      1        133      MP064600      Scoop, Vacuum, SpeedStar, 21"      1        MP064800      Scoop, Vacuum, SpeedStar, 28"      1        134      MP095200      Padholder, 21", Complete Asm.				
122      NB6864      Bolt, Hex, 1/2 x 1 1/4, NC      4        123      NB9269      Washer, Flat, 7/16      4        124      NB6044      Screw, Cap, 3/8 x 1 1/4      1        125      NB3450      Washer, Flat, 3/8      5        126      NB5282      Screw, BH, 5/16-18 x 1      10        127      SA003900      Padholder, 21", w/Studs only      1        SA007800      Padholder, 24", w/Studs only      1        SA004000      Padholder, 28", w/Studs only      1        128      NB3001      Screw, BH, 1/4-20 x 3/4      4        129      NB9267      Washer, Flat, 5/16      6        130      NB3265      Nut, Lock, 5/16      12        131      NB000100      Screw, HH, 5/16-18 x 1 3/4      2        132      MP065200      Seal, Tube, Dust      1        133      MP064600      Scoop, Vacuum, SpeedStar, 21"      1        MP064700      Scoop, Vacuum, SpeedStar, 28"      1        134      MP095200      Padholder, 21", Complete Asm.      1        MP047500      Padholder, 24", Complete Asm.      1 <td></td> <td></td> <td></td> <td></td>				
123      NB9269      Washer, Flat, 7/16      4        124      NB6044      Screw, Cap, 3/8 x 1 1/4      1        125      NB3450      Washer, Flat, 3/8      5        126      NB5282      Screw, BH, 5/16-18 x 1      10        127      SA003900      Padholder, 21", w/Studs only      1        SA007800      Padholder, 24", w/Studs only      1        SA004000      Padholder, 28", w/Studs only      1        128      NB3001      Screw, BH, 1/4-20 x 3/4      4        129      NB9267      Washer, Flat, 5/16      6        130      NB3265      Nut, Lock, 5/16      12        131      NB000100      Screw, HH, 5/16-18 x 1 3/4      2        132      MP065200      Seal, Tube, Dust      1        133      MP064600      Scoop, Vacuum, SpeedStar, 21"      1        MP064700      Scoop, Vacuum, SpeedStar, 24"      1        MP064800      Scoop, Vacuum, SpeedStar, 28"      1        134      MP095200      Padholder, 21", Complete Asm.      1	-			
124      NB6044      Screw, Cap, 3/8 x 1 1/4      1        125      NB3450      Washer, Flat, 3/8      5        126      NB5282      Screw, BH, 5/16-18 x 1      10        127      SA003900      Padholder, 21", w/Studs only      1        SA007800      Padholder, 24", w/Studs only      1        SA004000      Padholder, 28", w/Studs only      1        128      NB3001      Screw, BH, 1/4-20 x 3/4      4        129      NB9267      Washer, Flat, 5/16      6        130      NB3265      Nut, Lock, 5/16      12        131      NB000100      Screw, HH, 5/16-18 x 1 3/4      2        132      MP065200      Seal, Tube, Dust      1        133      MP064600      Scoop, Vacuum, SpeedStar, 21"      1        MP064700      Scoop, Vacuum, SpeedStar, 24"      1        MP064800      Scoop, Vacuum, SpeedStar, 28"      1        134      MP095200      Padholder, 21", Complete Asm.      1				
125      NB3450      Washer, Flat, 3/8      5        126      NB5282      Screw, BH, 5/16-18 x 1      10        127      SA003900      Padholder, 21", w/Studs only      1        SA007800      Padholder, 24", w/Studs only      1        SA004000      Padholder, 28", w/Studs only      1        128      NB3001      Screw, BH, 1/4-20 x 3/4      4        129      NB9267      Washer, Flat, 5/16      6        130      NB3265      Nut, Lock, 5/16      12        131      NB000100      Screw, HH, 5/16-18 x 1 3/4      2        132      MP065200      Seal, Tube, Dust      1        133      MP064600      Scoop, Vacuum, SpeedStar, 21"      1        MP064700      Scoop, Vacuum, SpeedStar, 24"      1        MP064800      Scoop, Vacuum, SpeedStar, 28"      1        134      MP095200      Padholder, 21", Complete Asm.      1        MP047500      Padholder, 24", Complete Asm.      1	-			
126      NB5282      Screw, BH, 5/16-18 x 1      10        127      SA003900      Padholder, 21", w/Studs only      1        SA007800      Padholder, 24", w/Studs only      1        SA004000      Padholder, 28", w/Studs only      1        128      NB3001      Screw, BH, 1/4-20 x 3/4      4        129      NB9267      Washer, Flat, 5/16      6        130      NB3265      Nut, Lock, 5/16      12        131      NB000100      Screw, HH, 5/16-18 x 1 3/4      2        132      MP065200      Seal, Tube, Dust      1        133      MP064600      Scoop, Vacuum, SpeedStar, 21"      1        MP064700      Scoop, Vacuum, SpeedStar, 24"      1        MP064800      Scoop, Vacuum, SpeedStar, 28"      1        134      MP095200      Padholder, 21", Complete Asm.      1        MP047500      Padholder, 24", Complete Asm.      1				
127      SA003900      Padholder, 21", w/Studs only      1        SA007800      Padholder, 24", w/Studs only      1        SA004000      Padholder, 28", w/Studs only      1        128      NB3001      Screw, BH, 1/4-20 x 3/4      4        129      NB9267      Washer, Flat, 5/16      6        130      NB3265      Nut, Lock, 5/16      12        131      NB000100      Screw, HH, 5/16-18 x 1 3/4      2        132      MP065200      Seal, Tube, Dust      1        133      MP064600      Scoop, Vacuum, SpeedStar, 21"      1        MP064700      Scoop, Vacuum, SpeedStar, 24"      1        134      MP095200      Padholder, 21", Complete Asm.      1        MP047500      Padholder, 24", Complete Asm.      1	-			
SA007800      Padholder, 24", w/Studs only      1        SA004000      Padholder, 28", w/Studs only      1        128      NB3001      Screw, BH, 1/4-20 x 3/4      4        129      NB9267      Washer, Flat, 5/16      6        130      NB3265      Nut, Lock, 5/16      12        131      NB000100      Screw, HH, 5/16-18 x 1 3/4      2        132      MP065200      Seal, Tube, Dust      1        133      MP064600      Scoop, Vacuum, SpeedStar, 21"      1        MP064700      Scoop, Vacuum, SpeedStar, 24"      1        134      MP095200      Padholder, 21", Complete Asm.      1        134      MP047500      Padholder, 24", Complete Asm.      1	-			
SA004000      Padholder, 28", w/Studs only      1        128      NB3001      Screw, BH, 1/4-20 x 3/4      4        129      NB9267      Washer, Flat, 5/16      6        130      NB3265      Nut, Lock, 5/16      12        131      NB000100      Screw, HH, 5/16-18 x 1 3/4      2        132      MP065200      Seal, Tube, Dust      1        133      MP064600      Scoop, Vacuum, SpeedStar, 21"      1        MP064700      Scoop, Vacuum, SpeedStar, 24"      1        MP064800      Scoop, Vacuum, SpeedStar, 28"      1        134      MP095200      Padholder, 21", Complete Asm.      1        MP047500      Padholder, 24", Complete Asm.      1	127			
128      NB3001      Screw, BH, 1/4-20 x 3/4      4        129      NB9267      Washer, Flat, 5/16      6        130      NB3265      Nut, Lock, 5/16      12        131      NB000100      Screw, HH, 5/16-18 x 1 3/4      2        132      MP065200      Seal, Tube, Dust      1        133      MP064600      Scoop, Vacuum, SpeedStar, 21"      1        MP064700      Scoop, Vacuum, SpeedStar, 24"      1        MP064800      Scoop, Vacuum, SpeedStar, 28"      1        134      MP095200      Padholder, 21", Complete Asm.      1        MP047500      Padholder, 24", Complete Asm.      1			Padholder, 24, W/Stude only	
129      NB9267      Washer, Flat, 5/16      6        130      NB3265      Nut, Lock, 5/16      12        131      NB000100      Screw, HH, 5/16-18 x 1 3/4      2        132      MP065200      Seal, Tube, Dust      1        133      MP064600      Scoop, Vacuum, SpeedStar, 21"      1        MP064700      Scoop, Vacuum, SpeedStar, 24"      1        MP064800      Scoop, Vacuum, SpeedStar, 28"      1        134      MP095200      Padholder, 21", Complete Asm.      1        MP047500      Padholder, 24", Complete Asm.      1	120		Scrow BH 1/4 20 x 2/4	
130      NB3265      Nut, Lock, 5/16      12        131      NB000100      Screw, HH, 5/16-18 x 1 3/4      2        132      MP065200      Seal, Tube, Dust      1        133      MP064600      Scoop, Vacuum, SpeedStar, 21"      1        MP064700      Scoop, Vacuum, SpeedStar, 24"      1        MP064800      Scoop, Vacuum, SpeedStar, 28"      1        134      MP095200      Padholder, 21", Complete Asm.      1        MP047500      Padholder, 24", Complete Asm.      1	-			
131      NB000100      Screw, HH, 5/16-18 x 1 3/4      2        132      MP065200      Seal, Tube, Dust      1        133      MP064600      Scoop, Vacuum, SpeedStar, 21"      1        133      MP064700      Scoop, Vacuum, SpeedStar, 24"      1        MP064800      Scoop, Vacuum, SpeedStar, 28"      1        134      MP095200      Padholder, 21", Complete Asm.      1        MP047500      Padholder, 24", Complete Asm.      1				
132      MP065200      Seal, Tube, Dust      1        133      MP064600      Scoop, Vacuum, SpeedStar, 21"      1        MP064700      Scoop, Vacuum, SpeedStar, 24"      1        MP064800      Scoop, Vacuum, SpeedStar, 28"      1        134      MP095200      Padholder, 21", Complete Asm.      1        MP047500      Padholder, 24", Complete Asm.      1				
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134MP095200 MP047500Padholder, 21", Complete Asm.1Padholder, 24", Complete Asm.1				
MP047500Padholder, 24", Complete Asm.1MP032500Padholder, 28", Complete Asm.1	13/		Padholder 21" Complete Asm	
MP032500 Padholder, 28", Complete Asm. 1	134		Padholder 24" Complete Astri.	
			Padholder, 28". Complete Asm	
				<u> </u>

REF	PART#	DESCRIPTION	QTY
135	PD006021	Pad, 21", Blue Blend	1
	PD006024	Pad, 24", Blue Blend Pad, 28", Blue Blend	1
	PD006028	Pad, 28", Blue Blend	1
136	NB9319	Screw, Cap, BH, 1/4-20 x 1 1/4	6
137	NB3350	Washer, Flat, 1/4"	14
138	TB1012	Flexi Disc, w/Lip (21")	1
	MP195800	Flexi Disc, w/out Lip (24" & 28")	1
139	NB5700	Washer, .755 x 1.005 x .060, S.S.	1
140	MP8310	Velcro Stud (Padholder)	76
	MP8310	Velcro Stud (Hood)	12
141	NB3275	Nut, Lock, 1/4	7
142	MP073100	Retainer, Pad, Center-Lok II, Top (24" & 28" only)	1
	MP027400	Base, Pad Grab III (21" only)	1
143	MP012700	Retainer, Pad, Center-Lok II	
		(Screw-In) (24" & 28" only)	1
	MP8505	Pad Grab III (Snap-In) (21" only)	1
144	MP066300	Ring, Spacer, Center-Lok II	
		(24" & 28" only)	1
145	MP084700	Molding, Bumper, RokBak	1
146	MX1025	Screw, Pan HD, 10-24 x 3/4	3
147	NB9645	Washer, Flat, #10	6
148	NB9735	Nut, Lock, 10-24, Nylon	3
149	MP079800	Stud, Support, Cover, Bag, Dust	1
150	NB6110	Washer, Lock, 1/4"	7
151	NB6530	Screw, Cap, HH, 1/4 - 20 x 1	3
152	MP073200	Retainer, Pad, Center-Lok II, Botto (24" & 28" only)	m 1
	MP8510	Ring, Retainer, Pad Grab III (21" o	nly) 1
154	NB9319	Screw, Cap, BH 1/4-20 x 1 1/4	1
155	NB017200	Clip, Belt	2
156	NB9710	Nut, Keps, 8-32, Zinc	4
157	NB9810	Screw, 0.164-32 x 5/8 Blk, C. Sunl	<u> </u>
158	MP081300	Ring, Relief, Stress, Padholder(21'	') 1
	MP196300	Ring, Relief, Stress, Large, Padholder (24" & 28")	1
159	NB020700	Screw, Phillips, Pan, 6-32 x 1	4
160	MP035300	Band, Clamp, Skirt	2
161	NB020800	Nut, Lock, Nylon, 6-32	4
162	NB038700	Rivet, Pop, 3/16" x 3/8" head x 1/2	
163	NB9645	Washer, Flat, #10	10
164	MP139700	Edging, Skirt (Top, 21")	4.08'
		(Top, 24")	5.02'
		(Top, 28")	6.07'
165	MP139800	Edging, Skirt (Bottom, 21")	6.03'
		(Bottom, 24")	7.10'
		(Bottom, 28")	8.14'
166	NB05060	Bolt, Hex, Tap, 1/4-20 x 2 1/2"	1
167	NB3350	Washer, Flat, 1/4	2
168	MX1045	Nut, Hex, 1/4-20	1
169	NB6501	Insert, 1/4-20, .027165 Grip, Con Typ.	пр. 1
170	MP247300		1
	MP247400	Skirt, Steel, 21", Tab, Painted Skirt, Steel, 24", Tab, Painted	1
	MP246600	Skirt, Steel, 28", Tab, Painted	1
171	MP140000	Felt, Dot	2
172	MP139900	Bushing, Skirt, Steel	1
173	NB038800	Screw, Socket HD, 1/4-20 x 1 1/4 w/ Loctite	1
174	NB043900	Rivet, 3/16 x 1/2 x 5/8 HD Black	<u>1</u> 4
175	NB044000	Washer, Flat, 3/16, Black	4
175			<u> </u>

## Bulkhead Sub-Assembly: SpeedStar

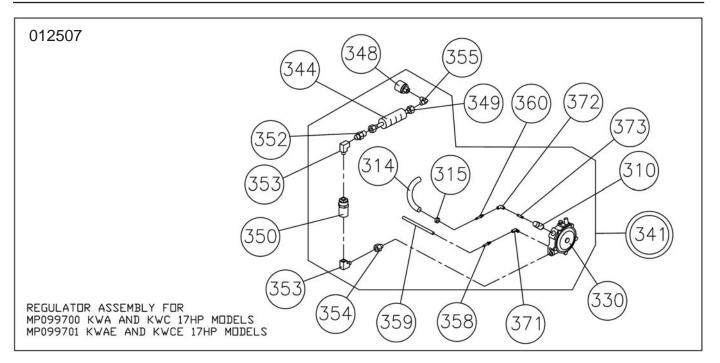


# Bulkhead Sub-Assembly: SpeedStar

REF	PART#	DESCRIPTION	QTY	F
300	NB061100	Screw, Phillips, 1/4-20 x 1/2	2	
301	MP042500	Filter, Foam, Air, Intake	1	3
302	MP063300	Hood, Battery, SpeedStar, Black	1	3
303	MP8310	Velcro Hook Studs	12	3
304	MP106500	Cable, Throttle, Control	1	3
305	MX1115	Washer, 1/4" Star Lock	2	3
306	NB4382	Screw, Kwik Drill, 8 x 18 x 1/2	1	3
307	SA008200	Bail	1	3
308	NB2643	Rivet, Pop, 1/8 x 1/4	4	_
309	MP280800	Hour Meter	1	3
310	MP017900	Fuel Adjustment Assembly	1	3
311	ST002200	Bulkhead Asm.	1	З
312	IN1015	Trim, Battery Tray	1	3
313	KC2509904	Switch, Starter	1	3
314	NB2470	3/8 Fuel Line	1	3
315	NB7282	Hose, Clamp, No. 38	2	3
316	MP044700	Plug, 3/4, Nylon, Black	1	3
317	NB6514	Grommet, 1-1/2 I.D. x 3/8 W x		3
0.11		1-3/4 O.D.	1	3
318 S	A017900	Tray, Battery, Swing-out, w/inserts	1	3
Not	Shown:	NB024700 - Plug, Hole, Large	1	3
Not	Shown	NB024800 - Plug, Hole, Small	2	3
319	MP042800	Display Board	1	ା ହା
320	NB010300	Nut, Nylon, 6-32	8	2
321	MP041800	Handle Assembly	1	2
322	MP042100	Block, Slide, Handle, Pivot	2	2
323	RV005100	Handle Knob	2	2
324	NB010100	3/8-16 x 2 Carriage Bolt	2	2
325	NB3350	Washer, Flat, 1/4	2	2
326	MP041100	Tank Strap	1	2
327	IN3510	Mount, Type S, 1/4-20	2	-
328	NB009800	3/8 I.D. x 1/8" Groove Grommet	3	
329	NB009900	5/8 I.D. A 1/8 Groove Grommet	5	2
330	MP037900	Regulator, Nolff	1	-
331	MP6431	12V Solenoid	1	
332	MP040400	Battery Retainer Assembly	1	5
333	SS1212	Battery Pad	1	-
334	SS0012	Battery	1	
335	MP043200	Starter Cable, 6"	1	
<u>336</u>	MP2011	Positive Battery Cable	1	5
337	MP2012	Negative Battery Cable	1	5
338	NB3260	5/16-18 Nut	2	5
339	NB6111	5/16 Lock Washer		<u> </u>
340		Painted Cylinder w/Decal	2	5
<u>340</u> 341	MP021703 MP099700		<u>1</u> 1	
341	MP099700 MP099701	Regulator Assembly Regulator Assembly (E Models)	1	
	WIE 039701	Regulator Assembly (E Models)	<u> </u>	

DEE		DESCRIPTION	
REF	PART#		QTY
342	MP038300	Battery Cover Molding	1
343	NB6110	1/4" Lock Washer	4
344	MP045500	Pipe Insulation, 1/2 I.D., 3/8 Wall	1
345	MP026300	#8 x .25 Spacer	8
346	SS3505	Foam Seal	2
347	SA008600	SafeSense Module Kit	1
348	MP4500	Quick Rego Female Coupler	1
349	MP4340	12" Regulator Hose	1
050	MP4300	Hose, 18", Regulator (E Models)	1
350	MP4712	12V Fuelock	1
351	NB9745	5/16"-18 x 3/4" Cap Screw	2
352	MP4320	48 x 6 Reg to Fuelock Fitting	1
353	MP027200	Fitting, 90 Deg. Elbow, 1/4 x 1/4 NP	
354	MP4325	3325 x 4 Reg to Fuelock Fitting	1
355	MP4331	54 x 6 Reg to Fuelock Fitting	1
356	NB003200	1/4"-20 x 5/8" HH Bolt	2
357	NB3001	1/4"-20 x 3/4" BH Screw	2
358	MP019500	1/8" NPT 1/4" Hose Barb	1
359	NB2460	5/32" Vacuum Hose	1
360	MP018900	1/8" NPT 3/8" Hose Barb	1
361	NB9845	Nut, Keps, 1/4-20	2
362	NB52816	Screw, BH, 1/4-20 x 1/2	2
363	N/A	N/A	-
364	MP093000	Hinge, Tray, Battery	1
365	NB023700	Stud, 8-32 x 1/2	8
366	NB9710	Nut, Keps, 8-32, Zinc	8
367	NB8175	Pin, Presto, 3/32 x 1 5/8	1
368	NB8130	Clamp, 3/4" I.D., Retainer	1
369	NB3350	Washer, Flat, 1/4	2
370	NB024600	Pin, Clevis, 1/4 x 5/8	1
371	MP098900	Fitting, 1/8" MPT x 1/8" FPT, 90°	1
372	MP099000	Fitting, 1/8" FPT x 1/8" FTP, 90°	1
373	MP099100	Fitting, 1/8 x 1/8 Nipple	1
374	NB5282	Screw, BH 5/16 - 18 x 1	4
375	NB9267	Washer, Flat, 5/16	4
376	NB3265	Nut, Lock, 5/16 - 18 NC	4
377	NB013000	Caplug, 0.125" x 0.375"	1
378	NB3275	Nut, Lock, 1/4"	1
379	NB9645	Washer, Flat, #10	1
380	MX1045	Nut, Hex, 1/4 - 20	2
381	NB9735	Nut, Lock, #10-24	1
382	NB028300	Bushing, Cable, Bail	1
383	NB033300	Screw, BH #10-24 x 7/8	1
		,	

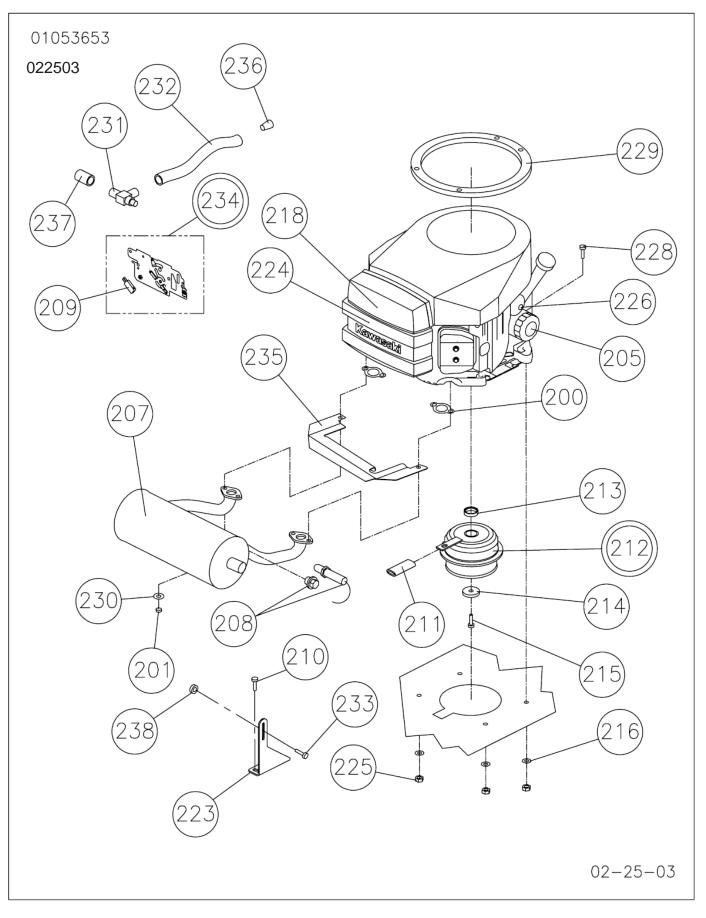
## Regulator Sub-Assembly: SpeedStar



# Regulator Sub-Assembly: SpeedStar

310      MP017900      Fuel Adjustment Assembly      1        314      NB2470      3/8 Fuel Line      1        315      NB7282      Hose, Clamp, No. 38      2        330      MP037900      Regulator, Nolff      1        341      MP099700      Regulator Assembly (17 HP)      1        MP099701      Regulator Assembly (17 HP E Models)1      344        344      MP045500      Pipe Insulation, 1/2 I.D., 3/8 Wall      1        348      MP4500      Quick Rego Female Coupler      1        349      MP4340      12" Regulator Hose      1        MP4300      Hose, 18", Regulator (E Models)      1        350      MP317500      Fuelock, 12V, Asm.      1        352      MP4320      48 x 6 Reg to Fuelock Fitting      1        353      MP027100      Fitting, Extension, 1/4 x 1/4 NPT      2        354      MP027100      Fitting, Extension, 1/4 x 1/4 NPT      1        355      MP4330      54 x 6 Reg to Fuelock Fitting      1        358      MP019500      1/8" NPT 1/4" Hose Barb      1        359	REF	PART#	DESCRIPTION	QTY
315      NB7282      Hose, Clamp, No. 38      2        330      MP037900      Regulator, Nolff      1        341      MP099700      Regulator Assembly (17 HP)      1        MP099701      Regulator Assembly (17 HP)      1        344      MP045500      Pipe Insulation, 1/2 I.D., 3/8 Wall      1        348      MP4500      Quick Rego Female Coupler      1        349      MP4340      12" Regulator Hose      1        350      MP317500      Fuelock, 18", Regulator (E Models)      1        350      MP317500      Fuelock, 12V, Asm.      1        351      MP027200      Fitting, 90 Deg. Elbow, 1/4 x 1/4 NPT      2        354      MP027100      Fitting, Extension, 1/4 x 1/4 NPT      1        355      MP4330      54 x 6 Reg to Fuelock Fitting      1        354      MP027100      Fitting, Extension, 1/4 x 1/4 NPT      1        355      MP4330      54 x 6 Reg to Fuelock Fitting      1        358      MP019500      1/8" NPT 1/4" Hose Barb      1        360      MP018900      1/8" NPT 3/8" Hose Barb      1	310	MP017900	Fuel Adjustment Assembly	1
330      MP037900      Regulator, Nolff      1        341      MP099700      Regulator Assembly (17 HP)      1        MP099701      Regulator Assembly (17 HP E Models)1      1        344      MP045500      Pipe Insulation, 1/2 I.D., 3/8 Wall      1        348      MP4500      Quick Rego Female Coupler      1        349      MP4340      12" Regulator Hose      1        350      MP317500      Fuelock, 12V, Asm.      1        350      MP4320      48 x 6 Reg to Fuelock Fitting      1        352      MP4320      48 x 6 Reg to Fuelock Fitting      1        353      MP027200      Fitting, 90 Deg. Elbow, 1/4 x 1/4 NPT      2        354      MP027100      Fitting, Extension, 1/4 x 1/4 NPT      1        355      MP4330      54 x 6 Reg to Fuelock Fitting      1        358      MP019500      1/8" NPT 1/4" Hose Barb      1        359      NB2460      5/32" Vacuum Hose      1        360      MP018900      1/8" NPT 3/8" Hose Barb      1        371      MP098900      Fitting, 1/8" MPT x 1/8" FPT, 90°      1	314	NB2470	3/8 Fuel Line	1
341      MP099700 MP099701      Regulator Assembly (17 HP)      1        344      MP045500      Pipe Insulation, 1/2 I.D., 3/8 Wall      1        348      MP045500      Pipe Insulation, 1/2 I.D., 3/8 Wall      1        348      MP4500      Quick Rego Female Coupler      1        349      MP4340      12" Regulator Hose      1        MP4300      Hose, 18", Regulator (E Models)      1        350      MP317500      Fuelock, 12V, Asm.      1        352      MP4320      48 x 6 Reg to Fuelock Fitting      1        353      MP027200      Fitting, 90 Deg. Elbow, 1/4 x 1/4 NPT      2        354      MP027100      Fitting, Extension, 1/4 x 1/4 NPT      1        355      MP4330      54 x 6 Reg to Fuelock Fitting      1        358      MP019500      1/8" NPT 1/4" Hose Barb      1        359      NB2460      5/32" Vacuum Hose      1        360      MP018900      1/8" NPT 3/8" Hose Barb      1        371      MP098900      Fitting, 1/8" FPT, 1/8" FPT, 90°      1        372      MP099000      Fitting, 1/8" FPT x 1/8" FPT, 90°	315	NB7282	Hose, Clamp, No. 38	2
MP099701      Regulator Assembly (17 HP E Models)1        344      MP045500      Pipe Insulation, 1/2 I.D., 3/8 Wall      1        348      MP4500      Quick Rego Female Coupler      1        349      MP4340      12" Regulator Hose      1        MP4300      Hose, 18", Regulator (E Models)      1        350      MP317500      Fuelock, 12V, Asm.      1        352      MP4320      48 x 6 Reg to Fuelock Fitting      1        353      MP027200      Fitting, 90 Deg. Elbow, 1/4 x 1/4 NPT      2        354      MP027100      Fitting, Extension, 1/4 x 1/4 NPT      1        355      MP4330      54 x 6 Reg to Fuelock Fitting      1        358      MP019500      1/8" NPT 1/4" Hose Barb      1        359      NB2460      5/32" Vacuum Hose      1        360      MP018900      1/8" NPT 3/8" Hose Barb      1        371      MP098900      Fitting, 1/8" FPT, 90°      1        372      MP099000      Fitting, 1/8" FPT x 1/8" FPT, 90°      1	330	MP037900	Regulator, Nolff	1
344      MP045500      Pipe Insulation, 1/2 I.D., 3/8 Wall      1        348      MP4500      Quick Rego Female Coupler      1        349      MP4340      12" Regulator Hose      1        MP4300      Hose, 18", Regulator (E Models)      1        350      MP317500      Fuelock, 12V, Asm.      1        352      MP4320      48 x 6 Reg to Fuelock Fitting      1        353      MP027200      Fitting, 90 Deg. Elbow, 1/4 x 1/4 NPT      2        354      MP027100      Fitting, Extension, 1/4 x 1/4 NPT      1        355      MP4330      54 x 6 Reg to Fuelock Fitting      1        358      MP019500      1/8" NPT 1/4" Hose Barb      1        359      NB2460      5/32" Vacuum Hose      1        360      MP018900      1/8" NPT 3/8" Hose Barb      1        371      MP098900      Fitting, 1/8" MPT x 1/8" FPT, 90°      1        372      MP099000      Fitting, 1/8" FPT x 1/8" FTP, 90°      1	341	MP099700	Regulator Assembly (17 HP)	1
348      MP4500      Quick Rego Female Coupler      1        349      MP4340      12" Regulator Hose      1        MP4300      Hose, 18", Regulator (E Models)      1        350      MP317500      Fuelock, 12V, Asm.      1        352      MP4320      48 x 6 Reg to Fuelock Fitting      1        353      MP027200      Fitting, 90 Deg. Elbow, 1/4 x 1/4 NPT      2        354      MP027100      Fitting, Extension, 1/4 x 1/4 NPT      1        355      MP4330      54 x 6 Reg to Fuelock Fitting      1        358      MP019500      1/8" NPT 1/4" Hose Barb      1        359      NB2460      5/32" Vacuum Hose      1        360      MP018900      1/8" NPT 3/8" Hose Barb      1        371      MP098900      Fitting, 1/8" MPT x 1/8" FPT, 90°      1        372      MP099000      Fitting, 1/8" FPT x 1/8" FTP, 90°      1		MP099701	Regulator Assembly (17 HP E Mod	els)1
349      MP4340      12" Regulator Hose      1        MP4300      Hose, 18", Regulator (E Models)      1        350      MP317500      Fuelock, 12V, Asm.      1        352      MP4320      48 x 6 Reg to Fuelock Fitting      1        353      MP027200      Fitting, 90 Deg. Elbow, 1/4 x 1/4 NPT      2        354      MP027100      Fitting, Extension, 1/4 x 1/4 NPT      1        355      MP4330      54 x 6 Reg to Fuelock Fitting      1        355      MP027100      Fitting, Extension, 1/4 x 1/4 NPT      1        355      MP4330      54 x 6 Reg to Fuelock Fitting      1        358      MP019500      1/8" NPT 1/4" Hose Barb      1        359      NB2460      5/32" Vacuum Hose      1        360      MP018900      1/8" NPT 3/8" Hose Barb      1        371      MP098900      Fitting, 1/8" MPT x 1/8" FPT, 90°      1        372      MP099000      Fitting, 1/8" FPT x 1/8" FTP, 90°      1	344	MP045500	Pipe Insulation, 1/2 I.D., 3/8 Wall	1
MP4300      Hose, 18", Regulator (E Models)      1        350      MP317500      Fuelock, 12V, Asm.      1        352      MP4320      48 x 6 Reg to Fuelock Fitting      1        353      MP027200      Fitting, 90 Deg. Elbow, 1/4 x 1/4 NPT      2        354      MP027100      Fitting, Extension, 1/4 x 1/4 NPT      1        355      MP4330      54 x 6 Reg to Fuelock Fitting      1        358      MP019500      1/8" NPT 1/4" Hose Barb      1        359      NB2460      5/32" Vacuum Hose      1        360      MP018900      1/8" NPT 3/8" Hose Barb      1        371      MP098900      Fitting, 1/8" MPT x 1/8" FPT, 90°      1        372      MP099000      Fitting, 1/8" FPT x 1/8" FTP, 90°      1	348	MP4500	Quick Rego Female Coupler	1
350      MP317500      Fuelock, 12V, Asm.      1        352      MP4320      48 x 6 Reg to Fuelock Fitting      1        353      MP027200      Fitting, 90 Deg. Elbow, 1/4 x 1/4 NPT      2        354      MP027100      Fitting, Extension, 1/4 x 1/4 NPT      1        355      MP4330      54 x 6 Reg to Fuelock Fitting      1        358      MP019500      1/8" NPT 1/4" Hose Barb      1        359      NB2460      5/32" Vacuum Hose      1        360      MP018900      1/8" NPT 3/8" Hose Barb      1        371      MP098900      Fitting, 1/8" MPT x 1/8" FPT, 90°      1        372      MP099000      Fitting, 1/8" FPT x 1/8" FTP, 90°      1	349	MP4340	12" Regulator Hose	1
352      MP4320      48 x 6 Reg to Fuelock Fitting      1        353      MP027200      Fitting, 90 Deg. Elbow, 1/4 x 1/4 NPT      2        354      MP027100      Fitting, Extension, 1/4 x 1/4 NPT      1        355      MP4330      54 x 6 Reg to Fuelock Fitting      1        358      MP019500      1/8" NPT 1/4" Hose Barb      1        359      NB2460      5/32" Vacuum Hose      1        360      MP018900      1/8" NPT 3/8" Hose Barb      1        371      MP098900      Fitting, 1/8" MPT x 1/8" FPT, 90°      1        372      MP099000      Fitting, 1/8" FPT x 1/8" FTP, 90°      1		MP4300	Hose, 18", Regulator (E Models)	1
353      MP027200      Fitting, 90 Deg. Elbow, 1/4 x 1/4 NPT      2        354      MP027100      Fitting, Extension, 1/4 x 1/4 NPT      1        355      MP4330      54 x 6 Reg to Fuelock Fitting      1        358      MP019500      1/8" NPT 1/4" Hose Barb      1        359      NB2460      5/32" Vacuum Hose      1        360      MP018900      1/8" NPT 3/8" Hose Barb      1        371      MP098900      Fitting, 1/8" MPT x 1/8" FPT, 90°      1        372      MP099000      Fitting, 1/8" FPT x 1/8" FTP, 90°      1	350	MP317500	Fuelock, 12V, Asm.	1
354      MP027100      Fitting, Extension, 1/4 x 1/4 NPT      1        355      MP4330      54 x 6 Reg to Fuelock Fitting      1        358      MP019500      1/8" NPT 1/4" Hose Barb      1        359      NB2460      5/32" Vacuum Hose      1        360      MP018900      1/8" NPT 3/8" Hose Barb      1        371      MP098900      Fitting, 1/8" MPT x 1/8" FPT, 90°      1        372      MP099000      Fitting, 1/8" FPT x 1/8" FTP, 90°      1	352	MP4320	48 x 6 Reg to Fuelock Fitting	1
355      MP4330      54 x 6 Reg to Fuelock Fitting      1        358      MP019500      1/8" NPT 1/4" Hose Barb      1        359      NB2460      5/32" Vacuum Hose      1        360      MP018900      1/8" NPT 3/8" Hose Barb      1        371      MP098900      Fitting, 1/8" MPT x 1/8" FPT, 90°      1        372      MP099000      Fitting, 1/8" FPT x 1/8" FTP, 90°      1	353	MP027200	Fitting, 90 Deg. Elbow, 1/4 x 1/4 NF	PT 2
358      MP019500      1/8" NPT 1/4" Hose Barb      1        359      NB2460      5/32" Vacuum Hose      1        360      MP018900      1/8" NPT 3/8" Hose Barb      1        371      MP098900      Fitting, 1/8" MPT x 1/8" FPT, 90°      1        372      MP099000      Fitting, 1/8" FPT x 1/8" FTP, 90°      1	354	MP027100	Fitting, Extension, 1/4 x 1/4 NPT	1
359      NB2460      5/32" Vacuum Hose      1        360      MP018900      1/8" NPT 3/8" Hose Barb      1        371      MP098900      Fitting, 1/8" MPT x 1/8" FPT, 90°      1        372      MP099000      Fitting, 1/8" FPT x 1/8" FPT, 90°      1	355	MP4330	54 x 6 Reg to Fuelock Fitting	1
360      MP018900      1/8" NPT 3/8" Hose Barb      1        371      MP098900      Fitting, 1/8" MPT x 1/8" FPT, 90°      1        372      MP099000      Fitting, 1/8" FPT x 1/8" FTP, 90°      1	358	MP019500	1/8" NPT 1/4" Hose Barb	1
371      MP098900      Fitting, 1/8" MPT x 1/8" FPT, 90°      1        372      MP099000      Fitting, 1/8" FPT x 1/8" FTP, 90°      1	359	NB2460	5/32" Vacuum Hose	1
372      MP099000      Fitting, 1/8" FPT x 1/8" FTP, 90°      1	360	MP018900	1/8" NPT 3/8" Hose Barb	1
3, ,	371	MP098900	Fitting, 1/8" MPT x 1/8" FPT, 90°	1
373 MP099100 Fitting, 1/8 x 1/8 Nipple 1	372	MP099000	Fitting, 1/8" FPT x 1/8" FTP, 90°	1
	373	MP099100	Fitting, 1/8 x 1/8 Nipple	1

## Engine Sub-Assembly: SpeedStar



# Engine Sub-Assembly: SpeedStar

REF	PART#	DESCRIPTION	QTY
200	KA110607006	Gasket	2
201	KA317R0800	Nut, 8mm	4
205	KA490652078	Oil Filter	1
207	MP107300	Muffler, Catalytic (17 HP)	1
208	MP018000	Oxygen Sensor (KWA models)	1
	MP015200	Oxygen Sensor Plug (KWC models	) 1
209	MP036200	Switch, Micro, 12V, 15A	1
210	NB5282	Bolt, BH, 5/16-18 X 1	2
211	MP4790	Norprene Tubing	1
212	MP4787	Clutch, Model 5215-63	1
213	MP4800	Spacer, Clutch Top	1
214	MP4805	Spacer, Bottom Clutch	1
215	NB005800	Screw, HH, 7/16-20 x 1 1/2"	1
216	NB9267	Washer, Flat 5/16	4
218	KA110137001	Air Precleaner	1
223	MP120500	Muffler Bracket	1
224	KA110137006	Air Filter Element, Kawasaki, UL	1
225	NB3265	Nut, Lock, 5/16-18	3
226	MP019200	Oil Pressure Switch	1
228	NB000100	Screw, HH, 5/16-18 X 1 3/4"	4
229	MP043100	Engine Air Intake Seal	1
230	KA461F0800	Lock Washer	4
231	MP072300	Valve, Drain, Oil	1
232	MP4515	Tubing, Drain, Oil	25"
233	NB52816	Screw, BH, 1/4 - 20 x 1/2"	1
234	SA007900	Plate, Throttle, Repl. Bail Style Kit	1
235	MP043400	Manifold Heat Shield	1
236	NB1621	Caplug, K8, Red	1
237	KA590717004	Oil Drain Adapter	1
238	NB9545	Nut, Spinlock, 1/4 - 20	1
239	KA920707003	Plug, Spark (RCJ8Y) (Not Shown)	2



Pioneer Eclipse

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Article #:		
Serial #:		
DOM:		
Built in NC, USA		

CE Certification applies only to machines for export with SafeSense® as indicated by KWAE extension on part number. Machine Directive 98/37/EC as amended by Directive 89/392/EEC, Directive 91/368/EEC, Directive 93/44/EEC, and by Directive 93/68/EEC.