

Operator's Manual



Sand Star

Model 45-001-C 2WD Chain Steering
Model 45-003-C 2WD/3WD Power Steering
Model 45-205-C 2WD/3WD Diesel

45-001-C SN: 1CS0735

45-003-C SN: 3HS0506

45-205-C SN: 5D321

06-SEPT-2026

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Reference

Thank you for purchasing a **Smithco** product. We welcome you to our growing family of new product owners. Proper assembly, maintenance, and safe operating practices will help you get years of satisfactory use from your **Bunker Rake**.

This machine is intended for professional maintenance on golf courses, sports turf, and any other area maintained turf and related trails, paths and lots. No guarantee as to the suitability for any task is expressed or implied.

Read this manual and all other manuals pertaining to the **bunker rakes** carefully as they contain safety, operating, assembly and maintenance instructions. Failure to do so could result in personal injury or equipment damage.

Keep manuals in a safe place after operator and maintenance personnel have read them. Manuals are available online at <https://manuals.smithco.com/>. QR code is on bottom side of seat panel. Right and left sides are from the operator's seat, facing forward.

All **Smithco** machines have a Serial Number and Model Number. Both numbers are needed when ordering parts. **The machine serial number is located on the right rear ROPs mount post.** Refer to engine manual for placement of engine serial number.

For product and accessory information, help finding a dealer, or to register your product please contact us at www.Smithco.com.

Information needed when ordering replacement parts:

1. Model Number of machine
2. Serial Number of machine
3. Name and Part Number of part
4. Quantity of parts



WARNING

Failure to follow cautious operating practices can result in serious injury to the operator or other persons. The owner must understand these instructions, and must allow only trained persons who understand these instructions to operate this vehicle.



WARNING

Engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

**For more information visit
www.P65Warning.ca.gov**

This manual complies with:

ANSI/ASABE AD3600:20115 MAY2016(R2021)

ANSI Z535.6-2011(R2017)

at the time of printing.

For easy access, record your Serial and Model numbers here.

Model Number: _____

Serial Number: _____

Date of Purchase: _____

Local Distributor: _____

Distributor Phone: _____

SMITHCO CUSTOMER SERVICE 1-800-891-9435

SYMBOLS



Read Operator's
Manual



Engine Stop



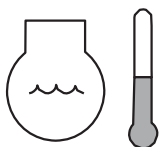
Engine Start



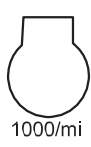
Engine Run



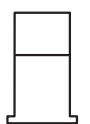
Engine Oil



Water
Temperature



RPM



Gasoline



Diesel



Glow Plug



Hour Meter



Hand Throttle



Choke



Hydraulic
Oil Level



Ground Speed



Park Brake



Park Brake
Release



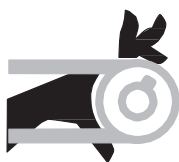
Fast



Slow



Lift Arm



Moving Parts



Pinch Point



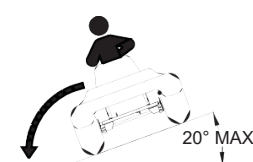
Hot Surface



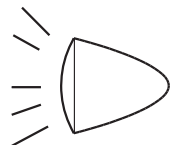
Hydraulic Fluid
Penetration



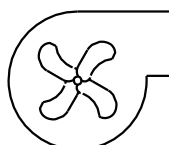
No Riders



Rollover
Danger



Headlamp



Blower



Warning
Danger
Caution



Seat Belt

SAFETY SIGNAL WORDS

Read and understand this manual and all safety signs before operating and maintaining. Review the safety instructions and precautions annually.



This is the safety alert symbol. It is used to alert you to potential physical injury hazards.

Obey all safety messages that follow this symbol to avoid possible injury or death.

Safety

Note the use of the signal words DANGER, WARNING and CAUTION with the safety messages. The appropriate signal word for each has been selected using the following guidelines:

	DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.
	WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.
	CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
	NOTICE is used to address practices not related to physical injury.
	SAFETY INSTRUCTIONS (or equivalent) is used to indicate specific safety-related instructions or procedures.

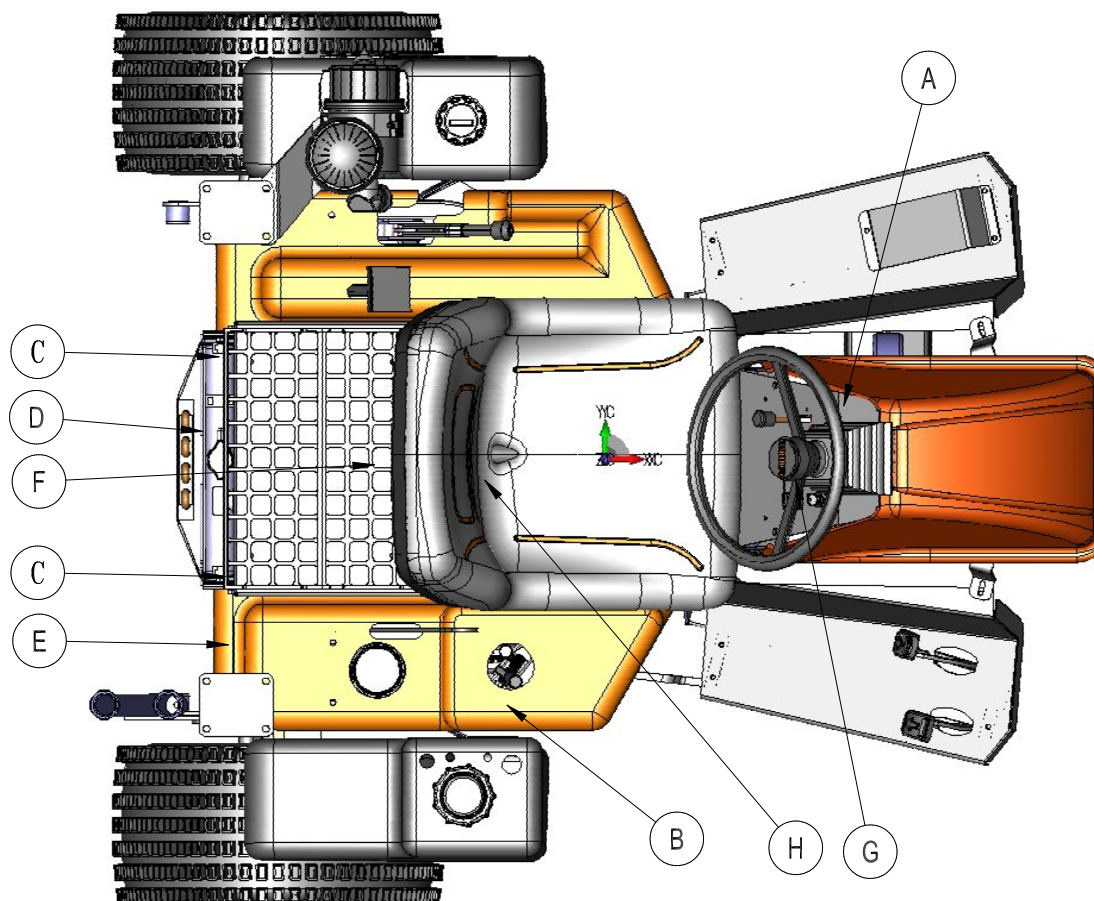
The meaning of the different signal words as defined by the ANSI Z535.6.

SAFETY DECAL LOCATION

SAFETY INSTRUCTIONS

REMEMBER: If Safety Signs have been damaged, removed, become illegible or parts replaced without decals, new decals must be applied. New decals are available from your authorized distributor or factory.

- A 45-213 Decal, Dashboard Warning - DIESEL
45-095 Decal, Dashboard Warning - GASOLINE
- B 30-117 Decal, Low Sulfur Fuel
- C 25-286 Decal, Warning Pinch Points
- D 25-277 Decal, Warning Battery
- E 25-298 Decal, Warning Hot
- F 16-088 Decal, Warning Moving Parts/Hot - DIESEL (Belt Guard)
- G 25-337 Decal, Speed Boss - Hang Tag
- H 25-352 Decal, Bypass Valve - Hang Tag on pump



Improper use or maintenance by the operator/owner can result in injury. To reduce the potential for injury, comply with all safety standards and instructions. Always pay attention to the safety alert symbol.

OPERATOR TRAINING REQUIRED

1. It is your responsibility to read this manual and all other training material carefully.
2. Learn the proper use of the machine, the location and purpose of all the controls, gauges and safety decals before you operate the equipment. Working with unfamiliar equipment can lead to accidents.
3. Do not carry passengers.
4. Do not operate while people, especially children, are near by.
5. Never allow anyone to operate or service the machine or its optional equipment without proper training and instructions. Never allow minors to operate any equipment.
6. The owner of this machine is responsible for training the users.

OPERATION SAFETY

1. Only allow responsible adults, who have been trained, to operate this machine.
2. Wear all the necessary protective clothing and personal safety devices to protect your head, eyes, ears, hands and feet. Operate the machine only in daylight or in good artificial light.
3. Inspect the area where the equipment will be used. Pick up all debris you can find before operating. Beware of overhead obstructions and underground obstacles. Stay alert for hidden hazards.
4. Never operate equipment that is not in perfect working order or without decals, guards, shields, or other protective devices in place.
5. Never disconnect or bypass any switch.
6. Carbon monoxide in the exhaust fumes can be fatal when inhaled, never operate a machine without proper ventilation.
7. Operate machine in open, unobstructed area.
8. Fuel is highly flammable, handle with care. When filling tank stop 1 inch (2.54 cm) from top. Leave room for expansion. **Do not over-fill.**
9. Keep engine clean. Allow the engine to cool before storing and always remove the key.
10. Disengage all drives and set park brake before starting the engine.
11. This machine demands your attention. To prevent loss of control or tipping of the vehicle:
 - A. Use extra caution in backing up the vehicle. Ensure area is clear.
 - B. Do not stop or start suddenly on any slope.
 - C. Reduce speed on slopes and in sharp turns. Use caution when changing directions on slopes.
 - D. Stay alert for holes in the terrain and other hidden hazards.
 - E. Use care when approaching blind corners, shrubs, trees or other objects that could obscure vision.
12. Keep the area of operation clear of all bystanders.
13. Before leaving operator's position:
 - A. Stop machine on a level surface.
 - B. Disengage all drives. Set park brake
 - C. Lower all attachments to the ground.
 - D. Shut engine off and remove the key.
 - E. If engine has to run to perform any maintenance, wait for all movement to stop before you clean, adjust or service the machine.
14. Keep hands, feet and clothing away from moving parts.
15. Stop engine before making repairs/adjustments or checking/adding oil to the crankcase.
16. Never use your hands to search for oil leaks. Hydraulic fluid under pressure can penetrate the skin and cause serious injury.
17. Do not operate this machine under the influence of alcohol or other drugs.
18. Slow down and use caution when making turns and crossing roads and sidewalks.
19. Be aware of overhead objects.
20. Use parts and materials supplied by **Smithco** only. Do not modify any function or part.

SAFE HANDLING OF FUELS

1. To avoid personal injury or property damage, use extreme care in handling fuels. Fuel is extremely flammable and vapors are explosive.
2. Extinguish all cigarette, cigars, pipes and other sources of ignition.
3. Use only approved fuel container.
4. Never remove fuel cap or add fuel with engine running.
5. Allow engine to cool before refueling.
6. Never store the machine or fuel container where there is an open flame, spark, or pilot light.
7. Never fill fuel containers on machine or trailer. Always place fuel container on the ground away from machine when filling.
8. Remove equipment from truck or trailer and refuel it on the ground. If this is not possible, refuel equipment from fuel container instead of the fuel dispenser nozzle.
9. If fuel is spilled on clothing, change immediately.
10. Fuel is highly flammable, handle with care. When filling tank, stop 1 inch (2.54 cm) from top. Leave room for expansion.
11. Never overfill fuel tank. Replace fuel cap and tightly secure.
12. Clean up oil or fuel spillage.

MAINTENANCE AND STORAGE

1. Park machine on level ground. Disengage all drives, set parking brake, stop engine and remove key. Wait for all movement to stop before adjusting, cleaning or repairing.
2. Clean grass and debris from all drives, mufflers, cooler and engines to help prevent fires.
3. Let engine cool before storing. Do not store near flame.
4. Never allow untrained personnel to service machine.
5. Use jack stands to support machine when required.
6. Carefully release pressure from components with stored energy.
7. Disconnect battery before making any repairs. Disconnect the negative terminal first and the positive last. Reconnect positive first and negative last.

8. Keep hands and feet away from moving parts. If possible, do not make adjustments with engine running.
9. Charge batteries in an open well ventilated area, away from spark and flame. Unplug charger before connection or disconnecting from battery. Wear protective clothing and use insulated tools.
10. Keep all parts in good working condition and all hardware tightened. Replace all worn and damaged parts.
11. Use parts and materials supplied by **Smithco** only. Do not modify any function or part.

HAULING

1. Use care when loading and unloading machine onto a trailer or truck.
2. Use full width ramps for loading machine onto trailer or truck.
3. Set park brake.
4. Tie machine down securely using straps, chains, or cables. Both front and rear straps should be directed downward and outward.

OPTIONAL - ROLLOVER PROTECTION SYSTEM (ROPS)

If ROPS are installed, please follow these safety guidelines.

1. The ROPS is an integral and effective safety device. Smithco Trap Rakes ship without ROPS. ROPS with seat belts must be ordered separately.
2. If equipped with ROPS, keep ROPS on machine at all times and use the seat belt when operating the machine.
3. Be certain the seatbelt can be released quickly in the event of an emergency.
4. Check carefully for overhead clearances (i.e. branches, doorways, electrical wires) before driving under any objects and do not contact them.
5. Keep the ROPS in safe operating conditions. Keep all mounting fasteners tight.
6. Replace a damaged ROPS. **Do not** repair or revise.
7. **Do not** remove the ROPS.

SPECIFICATIONS

SANDSTAR 45-001 2WD

WEIGHTS AND DIMENSIONS

Length	68" (1.73 m)
Width	58" (1.47 m)
Height	52" (1.2 m)
Wheel Base	42" (1.07m)
Ground Clearance	5.5" - 7" (13 -18cm)
Weight	875 lbs. (397 kg)

SOUND LEVEL (EAR PROTECTION REQUIRED)

At Ear Level	87 dB
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ENGINE

Make	Briggs and Stratton Vanguard
Model#	305447
Type / Spec#	0600 G1
Horsepower	16 hp (11.9 kW)
Lubrication System	Full Pressure
Alternator	16 amp

WHEELS & TIRE

Three: 22 X 11 - 10.0 Knobby Tires 5 psi (.34 bar)
Optional: 23-10.50 x 12 Turf Tires 5 psi (.34 bar)

SPEED

Forward Speed	0 to 10 m.p.h. (0-16 kph)
Reverse Speed	0 to 5 m.p.h. (0-8 kph)

BATTERY

BCI Group	Lawn & Garden Size 35
Cold Cranking Amps	300
Ground Terminal Polarity	Negative (-)
Maximum Length	7.5" (19 cm)
Maximum Width	5" (12,7 cm)
Maximum Height	7.5" (19 cm)

FLUID CAPACITY

Crankcase Oil	See Engine Manual
Fuel	20 quarts (18.93 liters)
Hydraulic Fluid	20 quarts (18.93 liters)

FLUID GRADE

Grade of Hydraulic Fluid
SAE 10W-40 API Service SJ or higher Motor Oil
Fuel Unleaded 87 Octane Gasoline Minimum

SANDSTAR 45-003 3WD

WEIGHTS AND DIMENSIONS

Length	68" (1.73 m)
Width	58" (1.47 m)
Height	52" (1.2 m)
Wheel Base	42" (1.07m)
Ground Clearance	5.5" - 7" (13 -18cm)
Weight	915 lbs. (415 kg)

SOUND LEVEL (EAR PROTECTION REQUIRED)

At Ear Level	87 dB
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ENGINE

Make	Briggs and Stratton Vanguard
Model#	356447
Type / Spec#	3559 G1
Horsepower	18 hp (13 kW)
Lubrication System	Full Pressure
Alternator	16 amp

WHEELS & TIRE

Three: 22 X 11 - 10.0 Knobby Tires 5 psi (.34 bar)
Optional: 23-10.50 x 12 Turf Tires 5 psi (.34 bar)

SPEED

Forward Speed	0 to 10 m.p.h. (0-16 kph)
Reverse Speed	0 to 5 m.p.h. (0-8 kph)

BATTERY

BCI Group	Lawn & Garden Size 35
Cold Cranking Amps	300
Ground Terminal Polarity	Negative (-)
Maximum Length	7.5" (19 cm)
Maximum Width	5" (12,7 cm)
Maximum Height	7.5" (19 cm)

FLUID CAPACITY

Crankcase Oil	See Engine Manual
Fuel	20 quarts (18.93 liters)
Hydraulic Fluid	20 quarts (18.93 liters)

FLUID GRADE

Grade of Hydraulic Fluid
SAE 10W-40 API Service SJ or higher Motor Oil
Fuel Unleaded 87 Octane Gasoline Minimum

SPECIFICATIONS

SANDSTAR 45-205 DIESEL

WEIGHTS AND DIMENSIONS

Length	68" (1.73 m)
Width	58" (1.47 m)
Height	52" (1.2 m)
Wheel Base	42" (1.07m)
Ground Clearance	5.5" - 7" (13 -18cm)
Weight	1020 lbs. (508 kg)

SOUND LEVEL (EAR PROTECTION REQUIRED)

At Ear Level	89 dB
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ENGINE

Make	Kubota
Model#	D-722
Type / Spec#	E3B
Horsepower	18 hp (14 kW)
Cooling System	Liquid Cooled
Lubrication System	Full Pressure
Alternator	16 amp

WHEELS & TIRE

Three: 22 X 11 - 10.0 Knobby Tires 5 psi (.34 bar)
Optional: 23-10.50 x 12 Turf Tires 5 psi (.34 bar)

SPEED

Forward Speed	0 to 11 m.p.h. (0-18 kph)
Reverse Speed	0 to 5 m.p.h. (0-8 kph)

BATTERY

BCI Group	Lawn & Garden Size 35
Cold Cranking Amps	300
Ground Terminal Polarity	Negative (-)
Maximum Length	7.5" (19 cm)
Maximum Width	5" (12,7 cm)
Maximum Height	7.5" (19 cm)

FLUID CAPACITY

Crankcase Oil	See Engine Manual
Fuel	20 quarts (18.93 liters)
Hydraulic Fluid	20 quarts (18.93 liters)

FLUID GRADE

Grade of Hydraulic Fluid
SAE 10W-40 API Service SJ or higher Motor Oil
Fuel Diesel Fuel No. 2
No. 2-D, S500: Low Sulfur Diesel (LSD) less than 500 ppm or 0.05 wt. %
No.2-D, S15: Ultra Low Sulfur Diesel (ULSD) less than 15 ppm or 0.0015 wt. %

OPTIONAL EQUIPMENT

ROPS

- 45-004 ROPs w/ Seat Belts
- 45-016 Light Kit for ROPs
- 45-390 Light Kit

FRONT PLOWS

- 45-005 40" (102 cm) Hydraulic Plow F/Sand Star I & III
- 45-009 40" (102cm) Aluminum Manual Plow
- 45-019 60" (155cm) Aluminum Manual Plow
- 45-179 40" (102cm) Adjustable Angle, Manual Plow
- 45-180 60" (155cm) Adjustable Angle, Manual Plow
- 45-206 40" (102cm) Hydraulic Plow for Sand Star Diesel V

GOLF APPLICATION CENTER MOUNT

- 45-006 Sand Cultivator (Straight Blades)
- 45-008 Sand Cultivator (with Spring Tine Teeth)
- 45-014 Weed Cultivator (with horizontal feet)
- 45-175 Adjustable Disc Edger

GOLF APPLICATION REAR MOUNT

- 13-298 Fan Rake Assembly
- 13-319 Fan Rake Add On for 13-758
- 13-684 Brush Attachment for 13-758 & 42-132
- 13-740 Brush Attachment for 42-130 & 45-503
- 13-758 72" (189 m) Pro Rake
- 42-130 84" (213 cm) Tournament Rake
- 42-132 72" (189 cm) Tournament Rake
- 42-391 72" (189 cm) Tournament Rake w/Flex-Brush
- 42-392 84" (213 cm) Tournament Rake w/Flex-Brush
- 45-503 84" (213cm) Pro Rake
- 45-010 Box Grader
- 41-501 Typhoon Pumping System

BALL FIELD APPLICATION CENTER MOUNT

- 45-007 Infield Scarifier (with gauge wheels, vertical blades)
- 45-011 Infield Scarifier (with gauge wheels, chisel blades)
- 45-012 Construction Leveling Blade w/push arms
- 45-013 Infield Scarifier (with spring tine teeth, gauge wheels)
- 45-015 Rotary Gutter Brush, Hydraulic Drive
- 45-173 Infield Scarifier (with chisel blades, no gauge wheels)
- 45-177 Nail Scarifier (with gauge wheels for infield scarifying)
- 45-195 Grader Blade Kit (for 45-007 & 45-011)

BALL FIELD APPLICATION REAR MOUNT

- 26-007 Professional Infield Finisher
- 26-008 Flex Action Infield Finisher-Leveler w/ Drag mat
- 43-002 Flex Action Field Finisher w/ Brush
- 43-008 Drag Mat Kit (Mat and Carrier)
- 43-009 Coco Mat and Frame
- 45-010 Box Grader
- 45-176 Drag Mat w/carrier frame and finisher brush

The Bunker Rakes arrive from **Smithco** with some assembly required before service.

Uncrate, install rear tire and steering wheel.

1. The machine comes in a crate. Uncrate the machine, being careful when cutting any banding.



CAUTION

Banding is under pressure. Use caution when cutting.

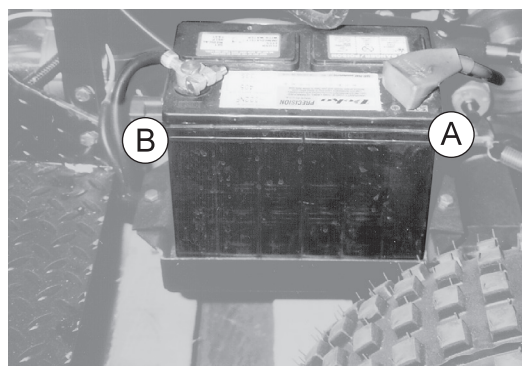
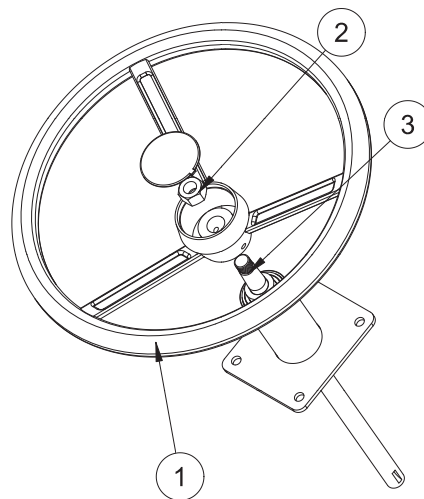
1. Set park brake. Push the brake down past center and the park brake is engaged.
2. Rear wheel mounting. Block front tire. Jack up rear of machine being careful not to damage underside of machine. Place wheel on hub lining up bolt holes. Use the ten lug nuts provided. Then torque to 64 - 74 ft/lb (87-100 Nm) using a cross pattern. Re-torque after the first 10 hours and every 200 hours thereafter. Lower machine to ground and remove blocks and jack.
3. Install steering wheel (Ref 1) on machine. Put steering wheel onto shaft (Ref 3). Place the nut on the shaft and tighten nut. Place steering wheel cover on the wheel center.
4. Check the tire pressure. The knobby tire pressure should be 5 psi (0.34 bar). Turf Trac Tire pressure should be 5 psi (.34 bar).
5. Battery not furnished. Install a lawn & garden size 35 with 300 cold cranking amps (minimum) battery in the battery box of the Sand Stars. This is a negative grounding system. Attach the battery hold-downs. Then attach red positive (+) cable (A) to positive terminal. Slide rubber boot over the positive terminal to prevent shorts. Attach black negative (-) cable (B) to the negative terminal.



WARNING

Connecting battery cables to the wrong post could result in personal injury and/or damage to the electrical system. Make sure battery and cables do not interfere or rub on any moving part. Connect red positive (+) cable (A) to battery first. When disconnecting remove black negative (-) cable (B) first.

6. Check engine oil and add as necessary. See engine manual for recommended motor oil. **DO NOT OVERFILL.**
7. If ROPS were ordered with machine. Install ROPS and seat belts now, according to instructions.



SETUP

7. Fill **Gas Tanks** with Unleaded 87 Octane gasoline (minimum). Fill **Diesel Fuel Tank** with No.1-D or No. 2-D, S500: Low Sulfur Diesel (LSD) less than 500 ppm or 0.05 wt.%. No1-D or No.2-D, S15: Ultra Low Sulfur Diesel (ULSD) less than 15 ppm or 0.0015 wt.%. When filling the fuel tank stop when the fuel reaches 1 inch (2.54cm) from the top. This space is necessary for fuel expansion. **DO NOT OVERFILL.**



DANGER

Fuel is flammable, caution must be used when storing or handling it. Do not fill fuel tank while engine is running or an enclosed area, fumes are explosive and dangerous to inhale.

**DO NOT SMOKE while filling the fuel tank.
DO NOT OVERFILL**

8. Check hydraulic oil level on the tank. The level should be $2-2\frac{1}{2}$ " (5 - 6.35 cm) from top of tank. If level is low, add SAE 10W-40 API Service SJ or higher motor oil.
9. Machine should be greased before starting.
10. Read operating instructions before starting machine.

CHECK EMISSION REGULATIONS OF YOUR AREA

With Emission control now in effect diesel fuel specification type and sulfur content % (ppm) used must be in compliant with all applicable emission regulations for the area in which the engine is operated.

1. Use of diesel fuel with sulfur content less than 0.10% (1000 ppm) is strongly recommended.
2. If high sulfur fuel is used, change oil and oil filters twice as often.
3. DO NOT USE Fuels that have sulfur content greater than 1.0% (10000 ppm).
4. Diesel fuels specified in EN 590 or ASTM D975 are recommended.

Since KUBOTA diesel engines of less than 56kW (75 hp) utilize EPA Tire 4 and Interim Tier 4 Standards, the use of low sulfur fuel or ultra low sulfur fuel is mandatory for these engines, when operated in US EPA regulated areas. Therefore, use No.2-D S500 or S15 diesel fuel as a alternative toe No. 2-D for ambient temperatures below -10°C (14° F).

WHEEL MOUNTING PROCEDURE

1. Turn machine off and remove key.
2. Block one of the other wheels.
3. Loosen nuts slightly on wheel to be removed.
4. Jack up machine being careful not to damage underside of machine.
5. Remove nuts. Remove wheel.
5. Place new wheel on hub lining up bolt holes.
6. Torque nuts to 64-74 ft/lb (87-100 Nm) using a cross pattern. Re-torque after first 8 hours and every 250 hours thereafter.
7. Lower machine to ground and remove blocks and jack.

INSTRUMENTS LOCATED ON THE CONTROL PANEL

- A. **Oil Light** - The oil light should come on when ignition is on without engine operating. The oil light will light when the oil pressure is low. If oil light should come on, shut off engine immediately and find the cause.
- B. **Ignition Switch** - The ignition switch has three positions: Off-Run-Start.
- C. **Hand Throttle** - The hand throttle is used to regulate engine speed.
- D. **Choke** - Pull choke control knob up to close choke plate when starting a cold engine. A warm engine may not require "choking" to start.
- E. **Hour Meter** - The hour meter indicates hours of machine operation. It operates only when the ignition switch is on.
- F. **Light** - (OPTIONAL) This is a Rocker switch to turn on and off lights.
- G. **On/Off valve** - Rocker switch to turn on/off 3 wheel drive.



RAKE LIFT LEVER

Located on right fender, this lever (H) raises and lowers all rear attachments. To raise push forward, to lower pull back. Release the lever when attachment is in proper position and lever will return to neutral.

LIFT ASSEMBLY LEVER

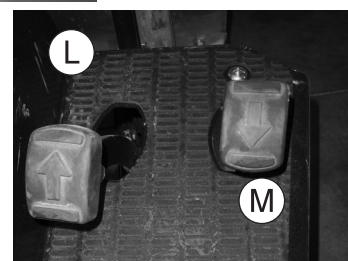
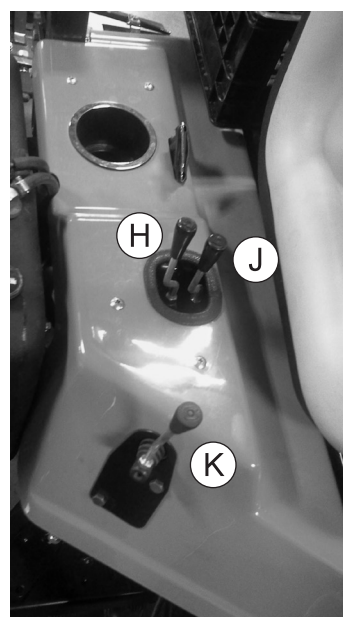
Located on right fender, this lever (J) raises and lowers all attachments under the center of the machine. To raise pull back, to lower push forward. Release the lever when attachment is in proper position and lever will return to neutral.

FRONT HYDRAULIC PLOW (OPTIONAL COMES WITH PLOW)

Located on right fender, this lever (K) raises and lowers the hydraulic plow in front of machine. To lower push forward, to raise pull back. Release the lever when attachment is in proper position and lever will return to neutral.

SEAT ADJUSTMENT

Seat adjustment lever is located under front of seat on right side. It allows seat adjustment forward or backward for operator's comfort. The seat also has the start safety switch in it. To start the Sand Star the operator must be sitting on the seat.



RIGHT FLOORBOARD

Foot Pedal controls forward and reverse motion. Pushing down on the inside pedal (L) will give you a forward motion and pushing down on outside pedal (M) will give you a reverse motion. When pedal is released the hydrostatic transmission centers and stops the vehicle. Ground speed is proportional to how far the foot pedal is depressed.

CONTROLS & INSTRUMENTS DIESEL MODELS

INSTRUMENTS LOCATED ON THE CONTROL PANEL

- A. **Hour Meter** - The hour meter indicates hours of machine operation. It operates only when the ignition switch is on.
- B. **Glow Plug**: When ignition is turned to pre-heat, glow plug lights when ready to start.
- C. **Temperature Light**: The temperature light will come on if machine starts to over heat.
- D. **Oil Light** - The oil light should come on when ignition is on without engine operating. The oil light will light when the oil pressure is low. If oil light should come on, shut off engine immediately and find the cause.
- E. **Ignition Switch** - The ignition switch has three positions: Off-Run-Start.
- F. **Hand Throttle** - The hand throttle is used to regulate engine speed.
- G. **On/Off valve** - Rocker switch to turn on/off 3 wheel drive.
- H. **Light** - (OPTIONAL) This is a rocker switch to turn on and off lights.



RAKE LIFT LEVER

Located on right fender, this outside lever (K) raises and lowers all rear attachments. To raise push forward, to lower pull back. Release the lever when attachment is in proper position and lever will return to neutral.

LIFT ASSEMBLY LEVER

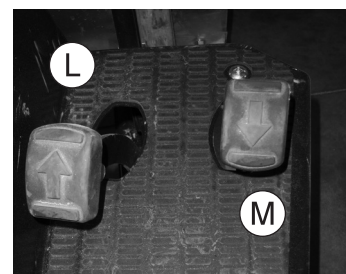
Located on right fender, this inside lever (J) raises and lowers all attachments under the center of the machine. To raise push forward, to lower pull back. Release the lever when attachment is in proper position and lever will return to neutral.

FRONT HYDRAULIC PLOW (OPTIONAL COMES WITH PLOW)

Located on right fender, this lever raises and lowers the hydraulic plow in front of machine. To lower push forward, to raise pull back. Release the lever when attachment is in proper position and lever will return to neutral.

SEAT ADJUSTMENT

Seat adjustment lever is located under front of seat on right side. It allows seat adjustment forward or backward for operator's comfort. The seat also has the start safety switch in it. To start the Sand Star the operator must be sitting on the seat.



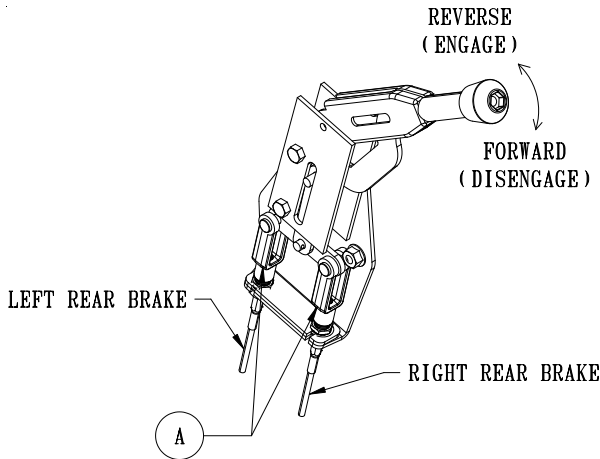
RIGHT FLOORBOARD

Foot Pedal controls forward and reverse motion. Pushing down on the inside pedal (L) will give you a forward motion and pushing down on outside pedal (M) will give you a reverse motion. When pedal is released the hydrostatic transmission centers and stops the vehicle. Ground speed is proportional to how far the foot pedal is depressed.

PARK BRAKE

The park brake is located on the left hand side of the machine and operates both rear wheels. Pull lever back to engage and push forward to disengage.

To adjust, turn the knob on the end of the handle.



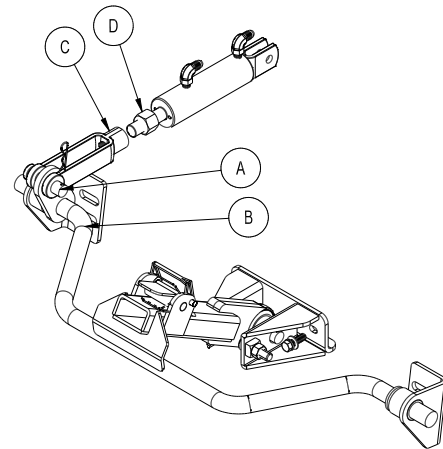
DRUM BRAKE ADJUSTMENT

The brake can be adjusted through the access hole in the backing plate. Remove the rubber plug from the backing plate. Using a drum brake adjusting tool, or a suitable flat blade screw driver, rotate the adjusting star towards the axle shaft to expand the shoes, one click at a time. Expand the shoes until slight contact is made with the drum. It is highly recommended that you adjust 1 click at a time. Rotate the drum back and forth to insure the brake is not rubbing excessively, if so back off the adjuster star. Slight rubbing is acceptable as the brake is used it will seat in. Test after each adjustment.

RAKE LIFT CYLINDER

Completely lower Rake Lift. Remove the clevis pin (A). Twist lift linkage (C) so clevis pin end of cylinder extension lines up with holes in attachment lift arm (B). Replace clevis and cotter pins. Tighten Jam Nut (D). Raise and lower Rake Lift to check for proper clearance.

Tighten until there is sufficient tension between lift arm and quick hitch and will not move in full up position.



CAUTION

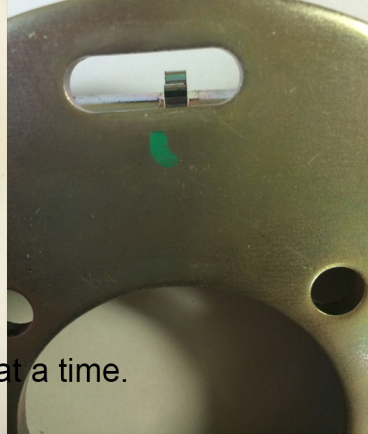
When the rear rake attachment is lowered while the machine is in forward motion, the forward speed of the machine will slow drastically. Operator should be prepared for a rapid change in speed.

Brake Adjustment

Remove Cover



Adjustment Gear



Move 1 click at a time.

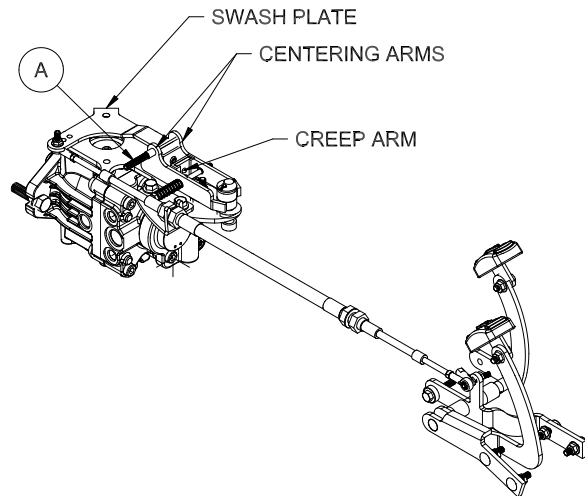


ADJUSTMENTS

WHEEL 'CREEP' ADJUSTMENT

'Creep' is when engine is running and hydrostatic transmission is in neutral, but due to inadequate alignment, wheels still move. Do the following procedures to stop this motion.

1. Lift up and support machine so all wheels are off the ground and can turn freely.
2. On the top of the pump there is a Creep Arm. Loosen bolts.
3. With engine running adjust the creep arm side to side in slot so centering arm centers on the swash plate.
4. Tighten all fasteners and test by using foot pedal linkage to see that the "creep" is removed.
5. Turn engine off and lower machine.



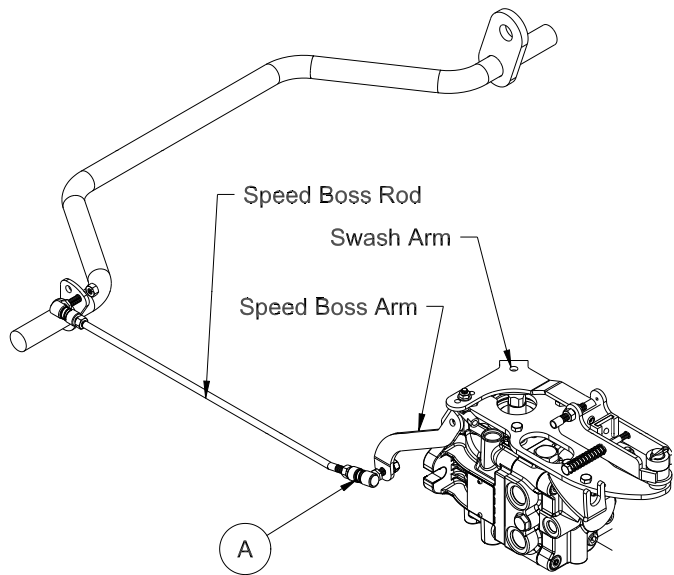
TO ADJUST FOOT PEDAL THROTTLE CABLE

1. Jack up unit so that all drive wheel are off the ground. (Use jack stands)
2. Start the engine, make certain that the hand throttle is in the idle position (1200 engine RPM).
3. Engine speed must increase as soon as the foot pedal begins to move in either direction. At the full forward position, the engine RPM must be $3500\text{RPM} \pm 100$.
4. Minor adjustment can be made by backing out (unscrewing) Retainer (Ref A) until you reach full engine RPM with the foot pedal fully depressed in the forward position. Be sure to recheck after the nuts are fully tightened.
5. Major adjustment needs to be made by pulling the slack out of the cable. Loosen the screw in the wire block on the engine that is clamped onto the end of the cable and sliding it up to the cable block that is through the throttle plate. Do not let the throttle plate move to increase idle speed. Tighten the screw.
6. Test run to determine that there is no binding and that engine idle speed is 1200 RPM and that it is 3600RPM at full forward position of the foot pedal.

SPEED BOSS

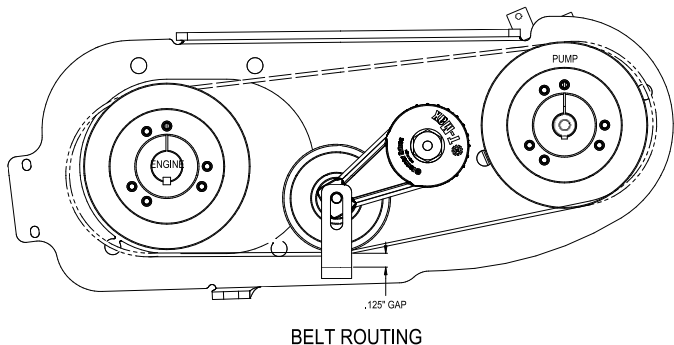
Speed Boss allows the machine to operate at a proper speed while raking sand traps on golf courses. This speed boss has been factory set at an average speed of 3-4 m.p.h. (5-6.5 kph). The Speed Boss will only limit the speed while the rake is lowered into the operating position. The speed setting may be adjusted by turning the Ball Joint (A) counterclockwise and find and replace to make the machine operate slower or turn clockwise to go faster. Tighten jam nut. Check to make sure nothing is binding and test drive to check desired speed.

For RBS System, Spiker and Grader Box remove the speed boss arm and the speed boss rod from machine so it does not interfere with other operations.



ADJUSTMENT OF BELT TENSIONER

The belt tensioner controls the tension on the belt from the engine to the pump. The proper tension of the idler should be in the second notch on the side of the tensioner. Over tightening the belt will shorten the life of the belt and the machine may not perform to the best of its ability. To adjust belt tensioner, loosen the bolt holding the tensioner. Bring idler pulley tight to the belt and turn tensioner into belt to the second notch. Tighten bolt on tensioner.



TOWING

When it is necessary to move the Sand Star without engine running, bypass valve built into hydrostatic pump must be “open” by turning it counterclockwise. The valve is A 17mm bolt on the top of the pump. An “open” valve allows fluid to pass through the wheels freely. When normal, driven, operation is desired, valve should be “closed” by turning it clockwise. Failure to “close” the valve with engine running means no power to wheels. The machine can be moved for a short distance with the engine off, but we **do not** recommend this as a standard procedure. When towing **do not** tow the machine faster than 2-3 MPH (3-5 km/h) because the drive system may be damaged. The tires may lock up if the machine is towed too fast. If this occurs, stop towing the machine. If the machine must be moved a considerable distance, transport it on a truck or trailer.

TRANSPORTING

This machine is not allowed on public roads. This machine must be transported via trailer or truck.

1. Use care when loading and unloading machine into a trailer or truck.
2. Use full width ramps for loading machine onto trailer or truck.
3. Raise accessory equipment to load and lower accessory equipment when in transport. Set park brake.
4. Tie machine down securely using straps, chains, or cables. Both front and rear straps should be directed downward and outward.

OPERATION

Before operating the Sand Star, become familiar with all controls and functions. Also complete all maintenance requirements and read all safety warnings. Knowing the Spray Star thoroughly, how it operates, and by doing the prescribed maintenance steps, you can expect trouble free operation for years to come.

SAFETY

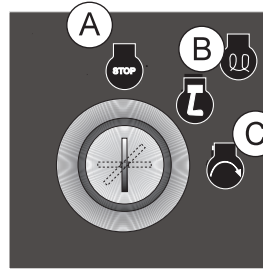
Safety needs to always be the concern of the operator on a moving vehicle or any machine with moving parts.

1. Keep all shields and guards in place.
2. Keep the parking brake engaged any time the operator is away from the vehicle or whenever service is performed.
3. Always wear the necessary protective clothing and equipment.
4. Turn engine off when refueling or performing maintenance not specifically requiring engine power.
5. If ROPs are installed, keep them on machine at all times and use the seat belt when operating the machine.

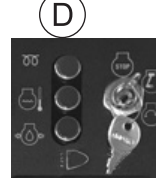
DAILY CHECKLIST

1. Check park brake adjustment. Adjust as required.
2. Check engine oil level. Add as needed. DO NOT OVERFILL.
3. Tire pressure should be 5 psi (0.34 bar) maximum .
4. Inspect electrical system for loose connections or frayed wiring, including battery cables. Replace any faulty equipment or tighten if loose.
5. Check hardware for loose or missing nuts, bolts, screws, etc., and tighten or replace as needed.
6. Inspect hydraulic lines for damage or leaks. Never use hands to inspect leaks.
7. Check hydraulic oil level on the tank. The level should be 2 -2 1/2" (5 - 6.35 cm) from top of tank. If level is low, add SAE 10W-40 API Service SJ or higher motor oil.

8. Inspect steering, throttle and shift linkages for good hookups and clear travel.
9. Check anti-vibration mounts on engine frame.
10. Check controls for smooth, proper working operation. Lubricate as needed.
11. Remove debris from engine compartment
12. Check cyclonic air cleaner.



STARTING ENGINE



1. Make sure the fuel flow valve, located on the fuel tank, is "ON."
2. Set park brake. Start safety switch is on the park brake.
3. The ignition switch is a three position on gas and diesel machines. **For Gas engines:** Insert key (A) and turn clockwise until engine starts (C). Release key and it will return to run position (B). Use choke and hand throttle as necessary. **For Diesel Engines:** Insert key (A) and turn clockwise to (B). When glow light(D) goes out, turn key clockwise until engine starts (C). Release key and it will return to run position (B).
4. Allow engine to idle and warm up a few minutes before selecting a direction of travel.
5. To shut off engine on all machines turn key to the stop position.

STOPPING THE ENGINE

NOTICE

If the engine has been running under high power, let it run at slow idle speed a few minutes to cool the engine down, before turning the ignition switch to the OFF position.

1. Lower all accessories to ground level.
2. Move the throttle lever to "slow" and turn ignition key to the "off" position.
3. Remove the ignition key and engage the park brake.



CAUTION

Never leave the vehicle unattended with the engine running. Always bring the vehicle to a complete stop, engage park brake, turn key off and remove key.

HILLSIDE OPERATION

Do not stop or start suddenly on any slope. Be especially cautious when changing direction. **Do not** operate on slopes greater than 10°.

BATTERY

Batteries normally produce explosive gases which can cause personal injury. Do not allow flames, sparks or any ignited object to come near the battery. When charging or working near battery, always shield your eyes and always provide proper ventilation.

Battery cable should be disconnected before using "Fast Charge".

Charge battery at 15 amps for 10 minutes or 7 amps for 30 minutes. Do not exceed the recommended charging rate. If electrolyte starts boiling over, decrease charging.

Always remove grounded (-) battery clamp first and replace it last. Avoid hazards by:

1. Filling batteries in well-ventilated areas.
2. Wear eye protection and rubber gloves.
3. Avoid breathing fumes when electrolyte is added.
4. Avoid spilling or dripping electrolyte.



WARNING

Battery Electrolyte is an acidic solution and should be handled with care. If electrolyte is splashed on any part of your body, flush all contact areas immediately with liberal amounts of water. Get medical attention immediately.

OPERATION

JUMP STARTING

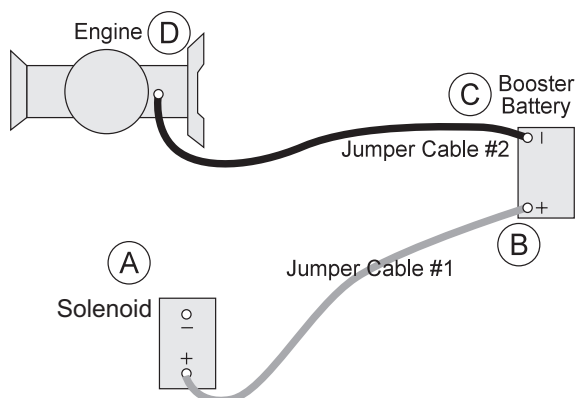
WARNING

Jump Starting - Use of booster battery and jumper cables. Particular care should be used when connecting a booster battery. Use proper polarity in order to prevent sparks.

To jump start (negative grounded battery):

1. Shield eyes.
2. Connect ends of one cable to positive (+) terminals of each battery, first (A) then (B).
3. Connect one end of other cable to negative (-) terminal of "good" battery (C).
4. Connect other end of cable (D) to engine block on unit being started (NOT to negative (-) terminal of battery)

To prevent damage to other electrical components on unit being started, make certain that engine is at idle speed before disconnecting jumper cables.



STORAGE

STORAGE

1. Clean the exterior surfaces of the engine.
2. Park machine on a flat surface.
3. Set park brake and remove key.
4. May disconnect battery if needed.
5. Store machine in a clean, dry place.

EXTENDED STORAGE

1. Check for any damaged parts or missing decals. Replace as needed.
2. Drain crankcase completely and refill with recommended engine oil or equivalent.
3. Change the oil and filter while the engine is still warm from operation.
4. Lubricate all grease points.
5. Clean exterior surface of engine.
6. Disconnect, remove and clean battery. Check electrolyte level. Charge the battery and store in a cool dry place (NOT directly on cement).
7. Put blocks or stands under the machine to take weight off tires.

AFTER STORAGE

1. Check for any damaged parts or missing decals. Replace as needed.
2. Lubricate all grease points.
3. Clean exterior surface of engine.
4. Charge and replace battery.
5. Check tire pressure.
6. Remove blocks or supports from under the machine.
7. Check engine oil level and lubricate all grease points.
8. Fill fuel tank.
9. Check belt tension.
10. Run engine in a well ventilated area approximately 5 minutes before putting the engine under load.

CAUTION

Before servicing or making adjustments to machine, stop engine and remove key from ignition.

NOTICE

Use all procedures and parts prescribed by the manufacturer's. Read the engine manual before operation.

LUBRICATION

Use No. 2 General purpose Lithium Base Grease and lubricate every 100 hours. The Sand Star has four grease fittings.

- One on the steering cylinder.
- One on the rod end of the center lift cylinder.
- Two on the foot pedal mount.

ELECTRICAL CONNECTIONS

Use dielectric grease on all electrical connections.

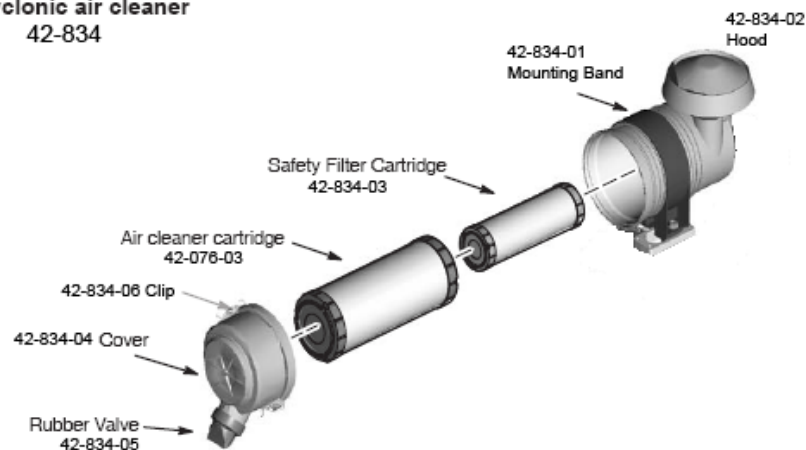
REMOTE AIR CLEANER

- Un-clip the two clips, remove the cover and pull out the element.
- To service, clean by tapping gently on flat surface. Do not oil. Replace if very dirty or damaged.
- Clean out the inside of the body and cover.
- Place the element into the body and put the cover back on.

NOTICE

Do not use petroleum solvents, e.g., kerosene, which will cause cartridge to deteriorate. Do not use pressurized air to clean cartridge. Pressurized air can damage cartridge.

Cyclonic air cleaner
42-834



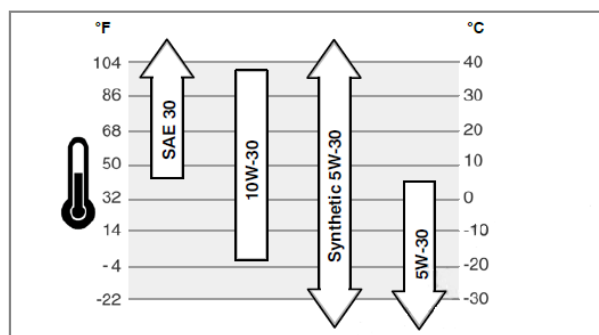
MAINTENANCE

ENGINE

For Briggs and Stratton

Change and add oil according to chart below. Do not overfill. Engine oil capacity is 2 quarts. We recommend high-quality detergent oils classified for service SF, SG, SH, SJ or higher. Do not use special additives. Outdoor temperatures determine the proper oil viscosity for the engine. Use the chart to select the best viscosity for the outdoor temperature range expected.

SAE VISCOSITY GRADES



Starting Temperature Range Anticipated Before Next Oil Change

A quick twist and pull motion to open, push to close. Allows a quick and easy way to change oil without the mess

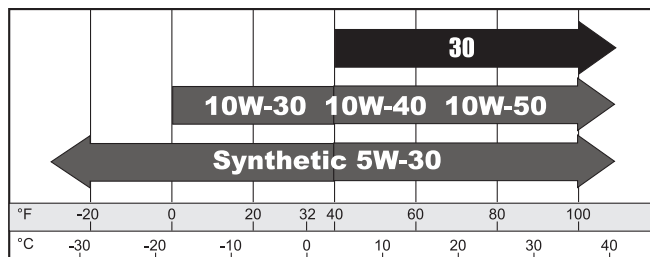


Engine Oil Drain Valve

ENGINE

For Kubota Diesel engine

Use oil classified "For Service CC, CD or CE" API oil. Use no special additives with recommended oils. Do not mix oil with gasoline. If the CF-4 or CG-4 lubrication oil is used with high-sulfur fuel, change the lubricating oil more often.



Starting Temperature Range Anticipated Before Next Oil Change

SAE VISCOSITY GRADES

Use of multi-viscosity oils (10W-30, etc.) above 80° F (27° C) will result in high oil consumption and possible engine damage. Check oil level more frequently if using these types of oils.

SAE 30 oil, if used below 40° F (4° C), will result in hard starting and possible engine bore damage due to inadequate lubrication.

HYDRAULIC OIL

1. Use SAE 10W-40 API Service SJ or higher motor oil.
2. For proper warranty, change oil every 500 hours or annually, whichever is first and change filter after the first 50 hours, then every 250 hours thereafter.
3. The oil level should be 2" to 2½" from top of tank when fluid is cold. Do not overfill.
4. After changing oil and/or filter, run the machine for a few minutes. Check oil level and for leaks.
5. Always use caution when filling hydraulic oil tank or checking level to keep system free of contaminants. Check and service more frequently when operating in extremely cold, hot or dusty conditions.
6. If natural color of fluid is black or smells burnt, it is possible that an overheating problem exists.
7. If fluid becomes milky, water contamination may be a problem.
8. If either of the above conditions happen, change oil and filter immediately after fluid is cool and find cause. Take fluid level readings when system is cold.
9. In extreme temperatures you can use straight weight oil. We recommend SAE 30W API Service SJ or higher when hot (above 90°F (33°C)) and SAE 10W API Service SJ or higher when cold (below 32°F (0°C) ambient temperature. Use either motor oil or hydraulic oil, but do not mix.
10. Oil being added to the system must be the same as what is already in the tank. Mark tank fill area as to which type you put in.

SERVICE CHART GASOLINE

CAUTION

Before servicing or making adjustments to the machine, stop engine, block wheels and remove key from ignition.

NOTICE

Follow all procedures and **ONLY** use parts prescribed by the manufacturer. Read the engine manual before maintenance.

ITEM	MAINTENANCE PROCEDURE
After the first 8 operating hours	Torque the wheel lug nuts. (64-74 ft/lb (87-100 Nm))
	Change the engine oil filter.
Before each use daily	Check the engine oil level.
	Clean area around muffler and controls.
	Check the hydraulic fluid level.
	Check the tire pressure.
	Check condition of hydraulic hoses and fittings.
	Inspect and clean the machine.
After the first 50 hours	Change hydraulic oil filter.
Every 100 hours	Clean or change air filter. ^{1&2}
	Clean pre-cleaner. ¹
	Change engine oil and filter.
	Replace spark plug .
	Lubricate machine.
	Clean or change remote air cleaner.
	Check the battery fluid level and cable connections..
	Check muffler and spark arrestor.
Every 250 hours	Check belt tension .
	Check engine valve clearance and adjust if necessary.
	Check idle speed.
	Clean battery terminals.
	Change hydraulic oil filter.
Every 500 hours or yearly	Torque the wheel lug nuts. (64-74 ft/lb (87-100 Nm))
	Change fuel filter.
	Change hydraulic oil and filter.
	Clean oil cooler fins. ¹
	Clean air cooling system. ¹
	Check safety filter in remote air cleaner.
¹ In dusty conditions or when airborne debris is present, clean more often.	
² Replace after every 6 times of cleaning	

SERVICE CHART DIESEL

CAUTION

Before servicing or making adjustments to the machine, stop engine, block wheels and remove key from ignition.

NOTICE

Follow all procedures and **ONLY** use parts prescribed by the manufacturer. Read the engine manual before maintenance.

ITEM	MAINTENANCE PROCEDURE
After the first 8 operating hours	Torque the wheel lug nuts. (64-74 ft/lb (87-100 Nm))
	Change the engine oil filter.
Before each use daily	Check the engine oil level.
	Clean area around muffler, radiator and controls.
	Check the hydraulic fluid level.
	Check the tire pressure.
	Check for oil or coolant leaks.
	Check condition of hydraulic hoses and fittings.
	Proper function of glow lamp timer (diesel only).
	Inspect and clean the machine.
After the first 50 hours	Change hydraulic oil filter.
	Change engine oil filter.
Every 100 hours	Clean or change air filter. ^{1&2}
	Clean pre-cleaner. ¹
	Change engine oil and filter.
	Lubricate machine.
	Clean or change remote air cleaner.
	Check the battery fluid level and cable connections..
	Service exhaust system.
	Check belt tension .
Every 200 hours	Check radiator hoses and clamp bands.
	Replace oil filter cartridge.
	Check idle speed.
	Clean battery terminals.
	Check air intake line.
	Change hydraulic oil filter.
	Torque the wheel lug nuts. (64-74 ft/lb (87-100 Nm))
Every 500 hours or yearly	Change fuel filter.
	Change hydraulic oil and filter.
	Replace fuel filter
	Clean air cooling system. ¹
	Change radiator coolant.
	Check safety filter in remote air cleaner.
¹ In dusty conditions or when airborne debris is present, clean more often.	
² Replace after every 6 times of cleaning	

SERVICE CHART

The suggested maintenance checklist is not offered as a replacement for the manufacturer's engine manual but as a supplement. You must adhere to the guidelines established by the manufacturer for warranty coverage. In adverse conditions such as dirt, mud or extreme temperatures, maintenance should be more frequent.

Duplicate this page for routine use

Maintenance Check Item	For the week of:						
	Mon	Tues.	Wed.	Thurs.	Fri.	Sat.	Sun.
Check the safety seat switch							
Check steering operation							
Check the fuel level							
Check the engine oil level.							
Clean the air filter							
Clean the engine cooling fins and radiator							
Check for unusual engine noises							
Clean Radiator.							
Check the hydraulic oil level							
Check hydraulic hoses and fittings for damage							
Check for fluid leaks.							
Check the tire pressure							
Check the instrumentation controls							
Inspect electrical system for frayed wires							
Check park brake adjustment							
Change oil filter.							
Change oil.							
Lubricate machine							
Ensure all warning decals are intact.							
Areas of Concern							
Inspection Performed by:							
Item	Date			Information			

HOW TO RAKE A SAND TRAP

HOW TO RAKE A SAND TRAP

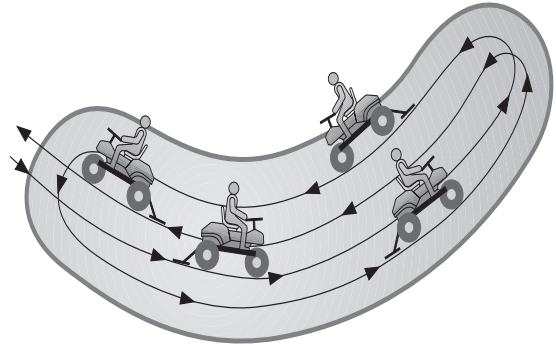
View bunker to determine the most efficient pattern to follow so that rake pattern and configuration of bunker will flow in same general direction and look attractive.

Enter bunker at its lowest point. Perhaps drain area or another point where “lip” of the trap is minimal.

Operate at 2-4 m.p.h. (3-6.5 kph) for best raking results. Control speed with hydraulic pedal.

Once fully inside bunker, lower rear rake and proceed forward as described above.

First pass should be directly down center of trap. This helps avoid extremely sharp turns that will spoil sands' appearance. Once at far end, turn machine and drive down one side of trap and come back up other side.



Grass or other material may build up on rake tines as machine passes “enter/exit” point in Figure 1. Lift rake briefly while still moving forward.

Do not rake closer than 6” (15 cm) to edge of trap.

Do not rake slopes in trap. The weight of machine will pull sand down.

Use cultivator or other center mounted accessories only as necessary for compacted sand. Frequent use will leave sand too soft and objectionable to some golfers.

Use front mounted plow to push sand to desired locations within trap.

After exiting trap, secure machines in accordance with practices described in this manual. Rake trap edges, slopes and “enter /exit” area with a hand rake.

After returning to maintenance area, thoroughly clean machine, check fluids, and lubricate as advised in this manual.

QUICK HITCH

Bunker Rakes are fitted with a Quick Hitch Accessory Mount System. On each mount is a spring loaded locking mechanism and a lock pin. Remove the lock pin and push down on the spring loaded locking mechanism and your rear attachment will pull off, so you can easily switch out attachments. The lock pin acts as a safety device to keep lock pin from opening up when crossing rough terrain.

There are also adjustment screws on the Quick Hitch Accessory Mount System that may need to be adjusted for certain rear attachments. These allow the rear attachment to move from side to side without touching the rear wheels. Please see instructions on each individual attachment that you purchase.

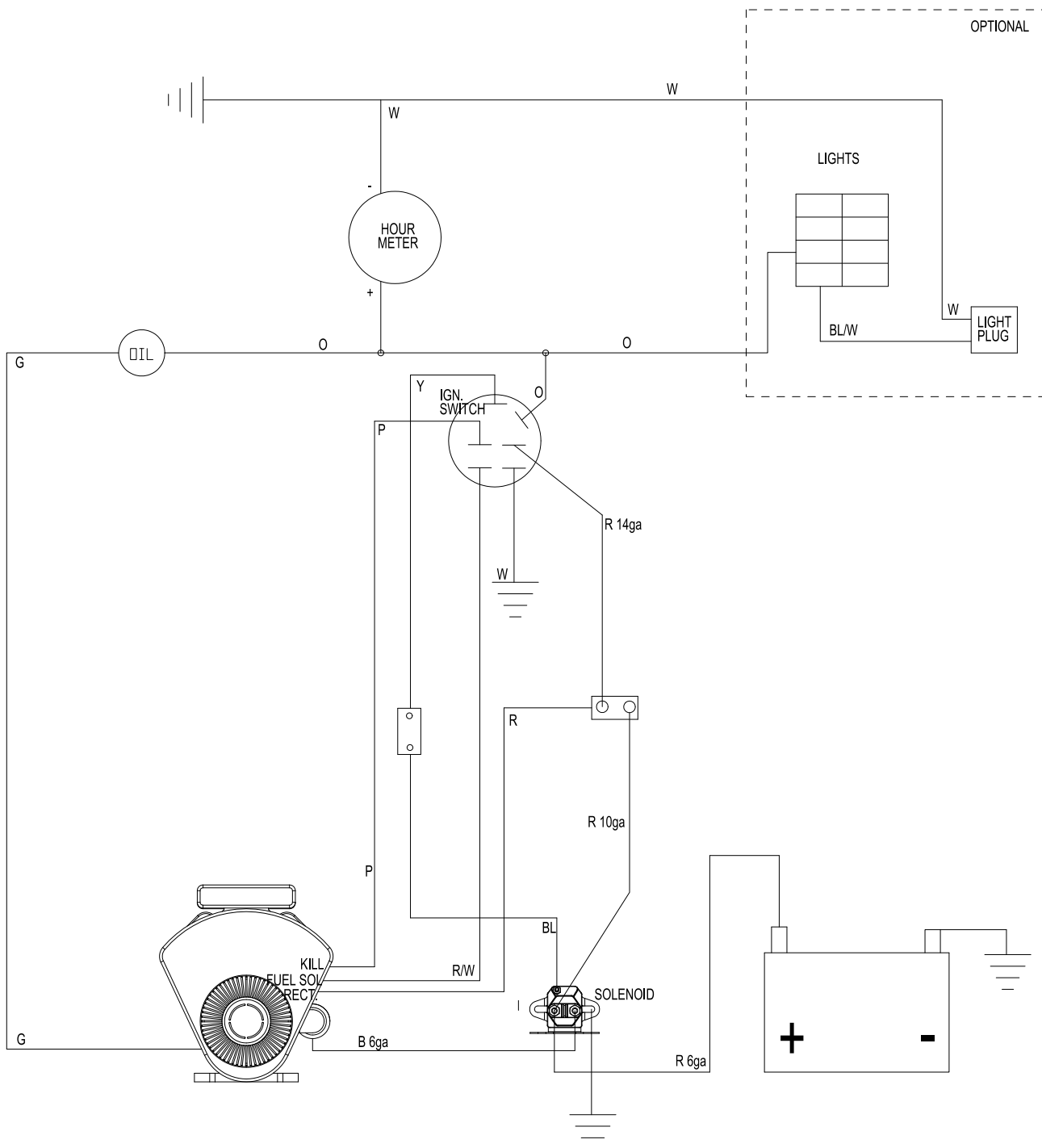
Run machine and test for operation of the rear attachment by raising and lowering the assembly and with the attachment down turn sharp corners in both directions to ensure rake is not contacting the tires.



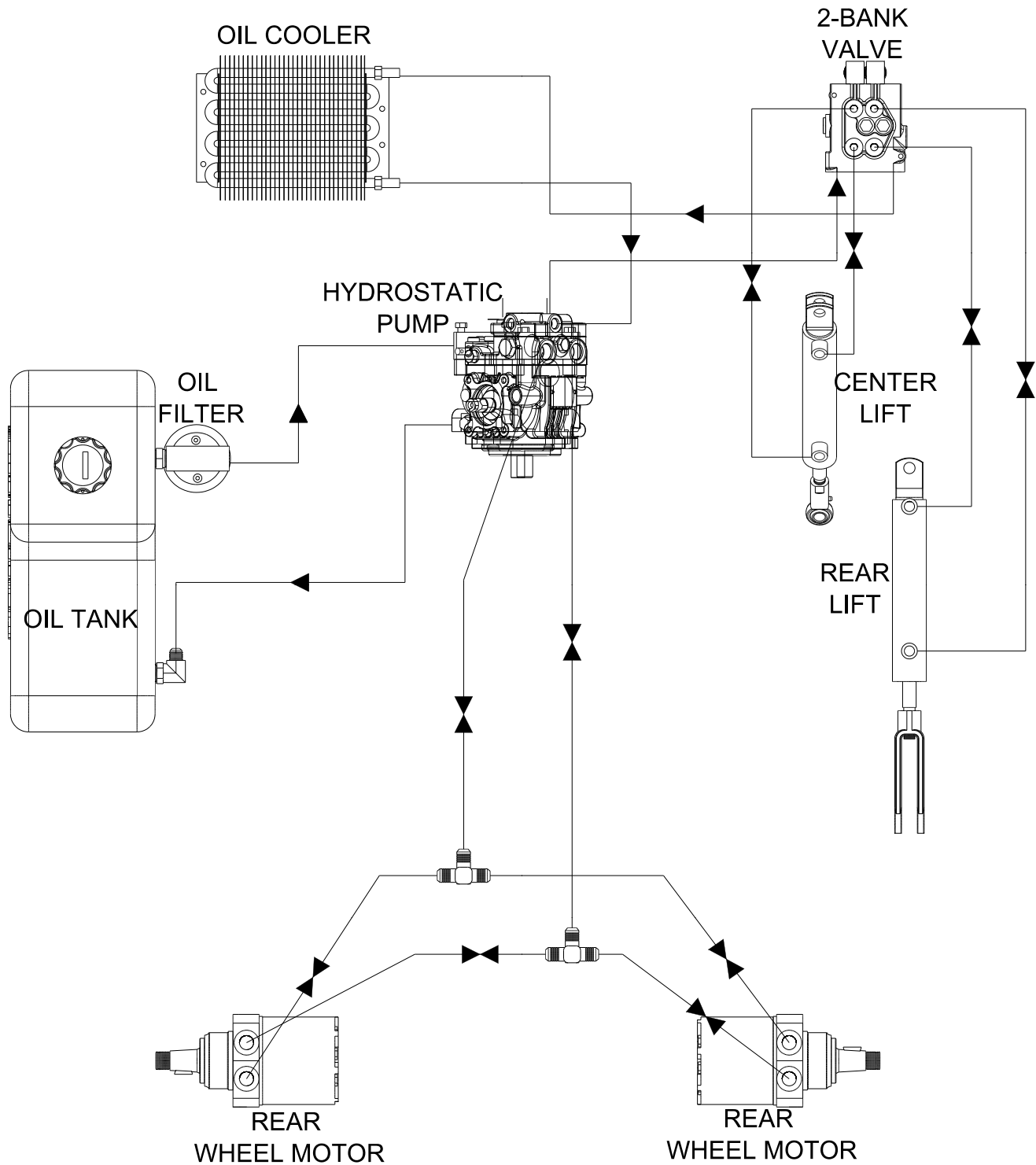
Spring Loaded
Locking Mechanism

Adjustment Screws

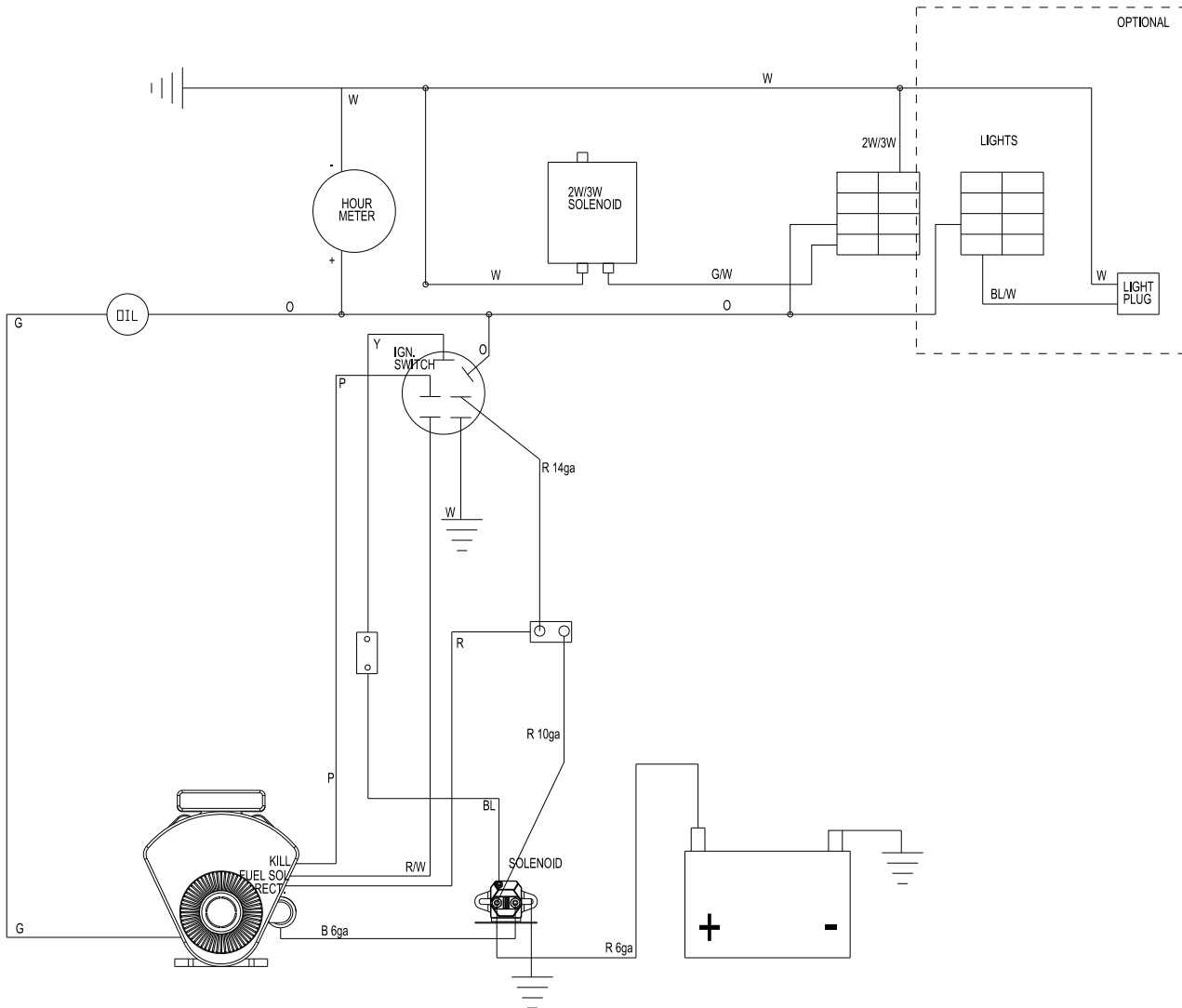
SAND STAR I WIRING DIAGRAM



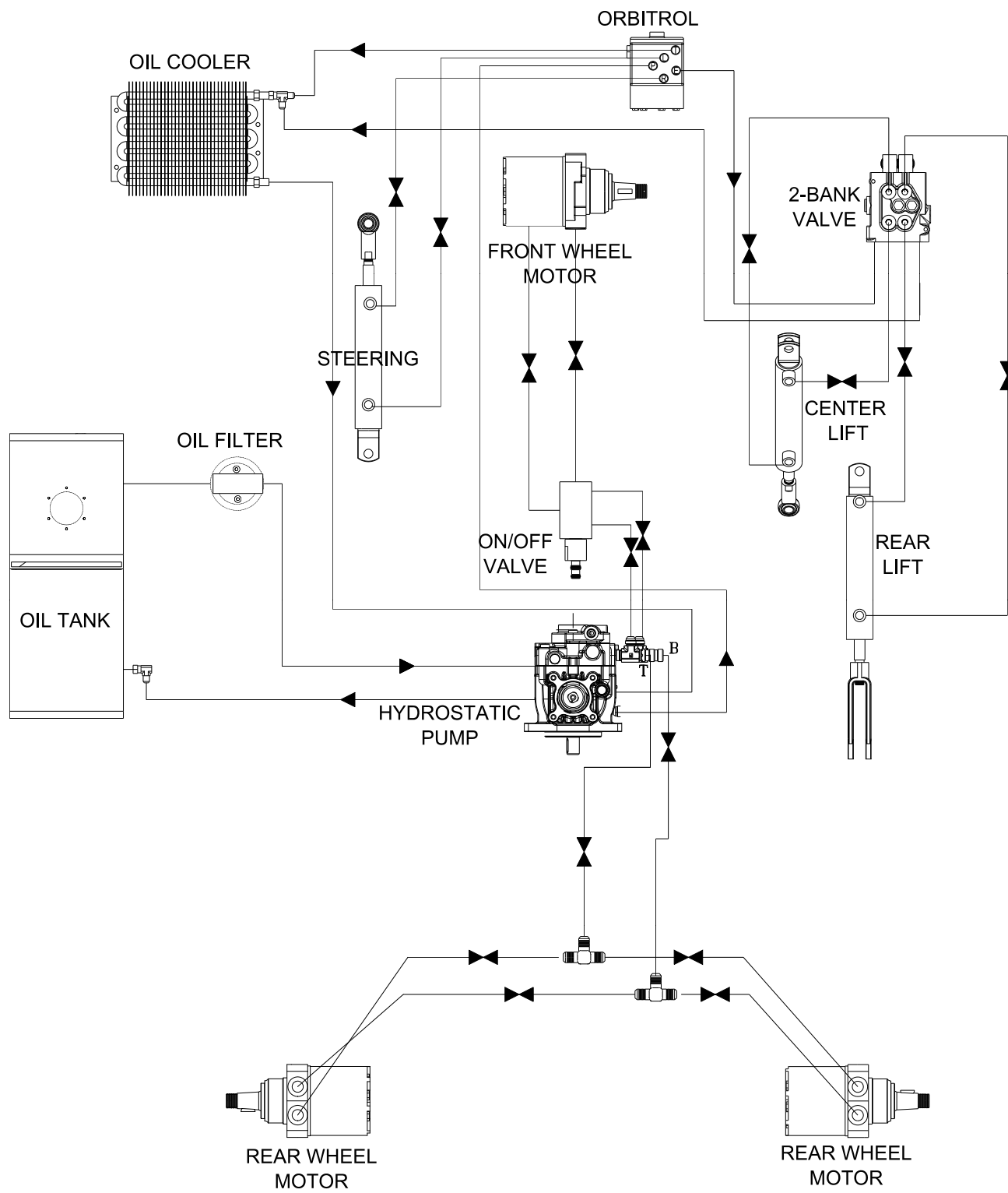
SAND STAR I HYDRAULIC DIAGRAM



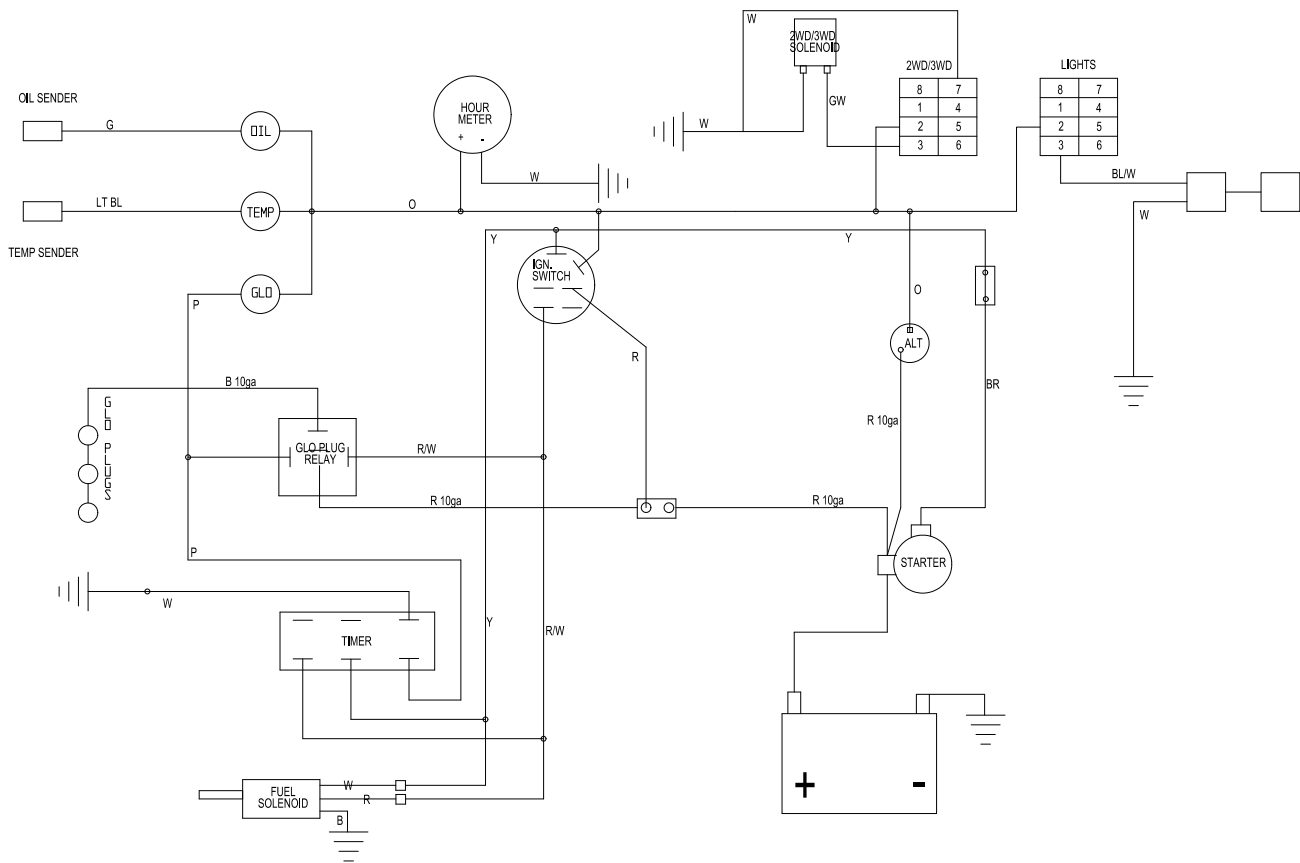
SAND STAR III WIRING DIAGRAM



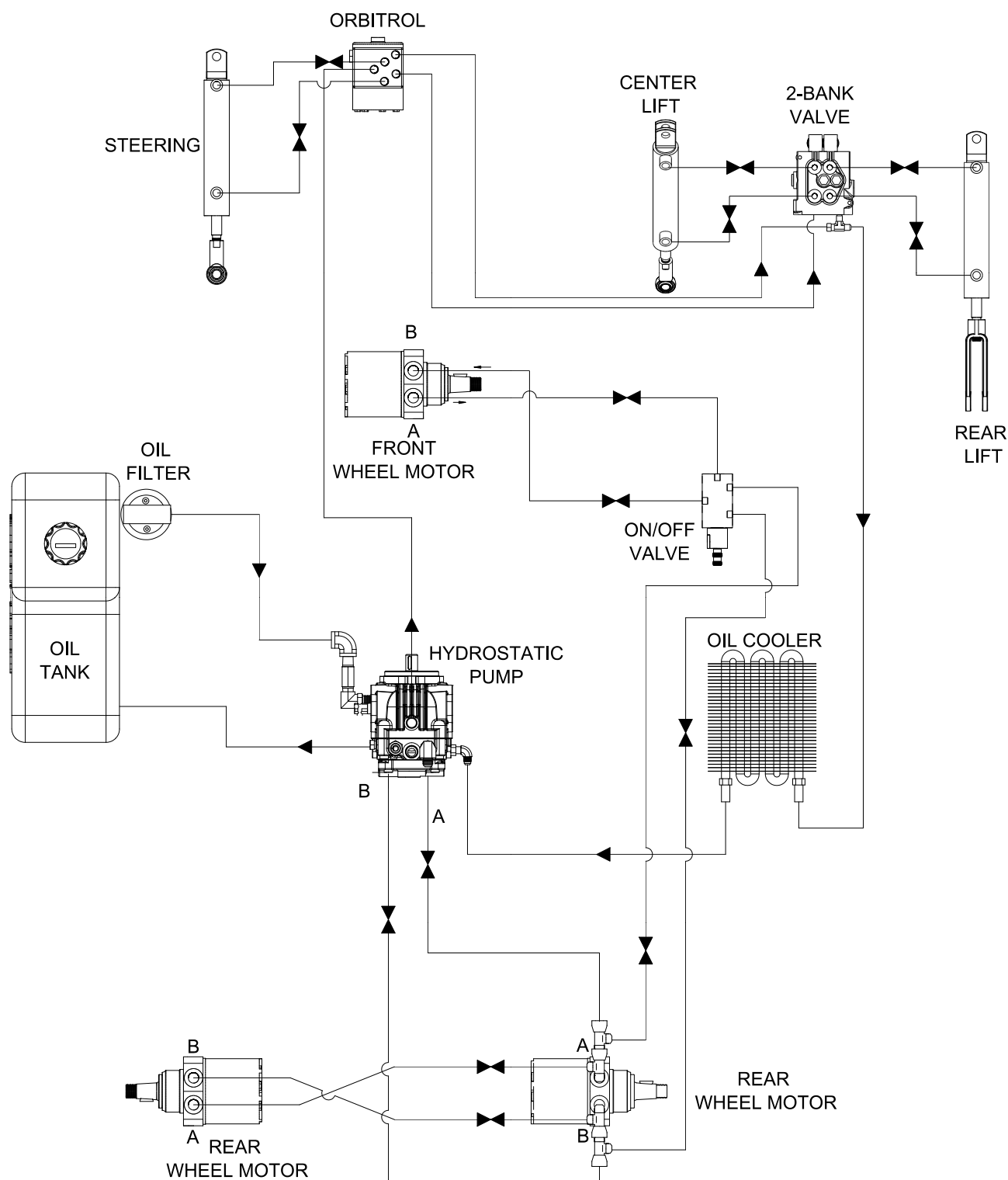
SAND STAR III HYDRAULIC DIAGRAM



SAND STAR V WIRING DIAGRAM



SAND STAR V HYDRAULIC DIAGRAM



DECLARATION OF CONFORMITY F/ 45-001

DECLARATION OF CONFORMITY ▪ ДЕКЛАРАЦИЯ ЗА СЪОТВЕТСТВИЕ ▪ PROHLÁŠENÍ O SHODĚ ▪ OVERENSSTEMMELSESERKLÆRING ▪ CONFORMITEITSVERKLARING ▪ VASTAVUSDEKLARATSIOON ▪ VAATIMUSTENMUKAISUUSVAKUUTUS ▪ DECLARATION DE CONFORMITE ▪ KONFORMITÄTSEERKLÄRUNG ▪ ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ ▪ MEGFELELŐSÉGI NYILATKOZAT ▪ DICHIARAZIONE DI CONFORMITÀ ▪ ATBILSTĪBAS DEKLARĀCIJA ▪ ATITIKTIES DEKLARACIJA ▪ DIKJARAZZJONI TAL-KONFORMITÀ ▪ DEKLARACJA ZGODNOŚCI ▪ DECLARAÇÃO DE CONFORMIDADE ▪ DECLARAȚIE DE CONFORMITATE ▪ VYHLÁŠENIE O ZHODE ▪ IZJAVA O SKLADNOSTI ▪ DECLARACIÓN DE CONFORMIDAD ▪ DEKLARATION OM ÖVERENSSTÄMMELSE

Business name and full address of the manufacturer • Търговско име и пълен адрес на производителя • Obchodní jméno a plná adresa výrobce • Producentens firmanavn og fulde adresse • Bedrijfsnaam en volledige adres van de fabrikant • Tootja ärinimi ja täielik aadress • Valmistajan toiminimi ja täydellinen osoite • Nom commercial et adresse complète du fabricant • Firmennamen und vollständige Adresse des Herstellers • Επιχειρησιακή και τεχνολογική διεύθυνση κατασκευαστή • A gyártó üzleti neve és teljes címe • Ragione sociale e indirizzo completo del fabbricante • Uzņēmuma nosaukums un pilna ražotāja adrese • Verslo pavadinimas ir pilnas gamintojo adresas • Isem kummercjali u indirizz shih tal-fabrikant • Nazwa firmy i pełny adres producenta • Nome da empresa e endereço completo do fabricante • Denumirea comercială și adresa completă a producătorului • Obchodný názov a úplná adresa výrobcu • Naziv podjetja in polni naslov proizvajalca • Nombre de la empresa y dirección completa del fabricante • Tillverkarens företagsnamn och kompletta adress	Smithco Inc. 303 W Lancaster Ave Suite #284 Wayne, PA 19087 USA
Product Code • Код на продукта • Kód výrobku • Produktkode • Productcode • Toote kood • Tuotekoodi • Code produit • Produktcode • Κωδικός προϊόντος • Termékkód • Codice prodotto • Produkta kods • Produktu kods • Kodici tal-Prodott • Kod produktu • Código do Produto • Cod produs • Kód výrobku • Oznaka proizvoda • Código de producto • Produktkod	45-001
Machine Name • Наименование на машината • Název stroje • Maskinnavn • Machinenam • Masina nimi • Laitteen nimi • Nom de la machine • Maschinenbezeichnung • Ονομασία μηχανήματος • Gépnév • Denominazione della macchina • Iekārtas nosaukums • Mašinos pavadinimas • Isem tal-Magna • Nazwa urządzenia • Nome da Máquina • Numele echipamentului • Název stroja • Naziv stroja • Nombre de la máquina • Maskinens namn	Sand Star I
Designation • Предназначение • Označení • Betegnelse • Benaming • Nimetus • Tyypimerkintä • Pažymėjimas • Bezeichnung • Χαρακτηρισμός • Megnevezés • Funzione • Apzīmējums • Lithuanian • Denominazzjoni • Oznaczenie • Designação • Specificație • Označenje • Namen stroja • Descripción • Beteckning	Bunker Rake
Serial Number • Серийн номер • Sériové číslo • Seriennummer • Seriennummer • Seerianumber • Valmistusnumero • Numéro de série • Seriennummer • Σειριακός αριθμός • Sorozatszám • Numero di serie • Sērijas numurs • Serijos numeris • Numru Serjali • Numer serjiny • Número de Série • Număr de serie • Sériové číslo • Serijska številka • Número de serie • Seriennummer	2CS0489-2CS0999
Engine • Двигател • Motor • Motor • Motor • Mootor • Mootori • Moteur • Motor • Μηχανή • Modulnév • Motore • Dzinējs • Variklis • Sahha Netta Installata • Silnik • Motor • Motor • Motor • Motor • Motor • Motor • Motor	Briggs & Stratton Vanguard
Net Installed Power • Нетна инсталирана мощност • Čistý instalovaný výkon • Installeret nettoeffekt • Netto geïnstalleerd vermogen • Installeeritud netovõimsus • Asennettu nettoteho • Puissance nominale nette • Installierte Nettoleistung • Καθαρή εγκατεστημένη ισχύς • Nettó beépített teljesítmény • Potenza netta installata • Paredzētā tīkla jauda • Grynoji galia • Wisa' tal-Qtugh • Moc zainstalowana netto • Potência instalada • Puterea instalată netă • Čistý inštalovaný výkon • Neto vgrajena moč • Potencia instalada neta • Nettoeffekt	11.9 kW
Conforms to Directives • В съответствие с директивите • Splūuje podmíny směrnic • Er i overensstemmelse med direktiver • Voldoet aan de richtlijnen • Vastab direktiividele • Direktiivien mukainen • Conforme aux directives • Entspricht Richtlinien • Ακολουθήστε πιστά τις Οδηγίες • Megfelel az irányelveknek • Conforme alle Direttive • Atbilst direktīvām • Atitinka direktyvų reikalavimus • Valutazzjoni tal-Konformità • Dyrektywy związane • Cumpră as Directivas • Respectă Directivale • Je v sùlade so smernicami • Skladnost z direktivami • Cumple con las Directivas • Uppfyller direktiv	2006/42/EC; 2000/14/EC Annex VI . Part 1
Conformity Assessment • Оценка за съответствие • Hodnocení plnění podmínek • Overensstemmelsesvurdering • Conformiteitsbeoordeling • Vastavushindamine • Vaatimustenmukaisuuden arviointi • Evaluation de conformité • Konformitätsbeurteilung • Διαπίστωση Συμμόρφωσης • Megfelelőség-értékelés • Valutazione della conformità • Atbilstības novērtējums • Atitikties įvertinimas • Livell tal-Qawwa tal-Hoss Imkejjet • Ocena zgodności • Avaliação de Conformidade • Evaluarea conformității • Vyhodnotenie zhodnosti • Ocena skladnosti • Evaluación de conformidad • Bedömning av överensstämmelse	2006/42/EC Annex VIII
Measured Sound Power Level • Измерено ниво на звукова мощност • Naměřený akustický výkon • Målte lydstyrkeniveau • Gemeten geluidsniveau • Mõõdetud helivõimsuse tase • Mitattu äänitehotaso • Niveau de puissance sonore mesuré • Gemessener Schalldruckpegel • Σταθμισμένο επίπεδο ηχητικής ισχύος • Mért hangteljesítményszint • Livello di potenza sonora misurato • Izmērītais skaņas jaudas līmenis • Išmatuotas garso stiprumo lygis • Livell tal-Qawwa tal-Hoss Iggarantit • Moc akustyczna mierzona • Nivel sonoro medido • Nivelul măsurat al puterii acustice • Nameranā hladina akustického výkonu • Izmerjena raven zvočne moči • Nivel de potencia sonora medido • Uppmätt ljudeffektsnivå	87dB(A)Lwa
Guaranteed Sound Power Level • Гарантирано ниво на звукова мощност • Garantovaný akustický výkon • Garanteret lydstyrkeniveau • Gegarandeerd geluidsniveau • Garantteeritud helivõimsuse tase • Taattu äänitehotaso • Niveau de puissance sonore garanti • Garantierter Schalldruckpegel • Εγγυημένο επίπεδο ηχητικής ισχύος • Szavatolt hangteljesítményszint • Livello di potenza sonora garantito • Garantētais skaņas jaudas līmenis • Garantuotas garso stiprumo lygis • Livell tal-Qawwa tal-Hoss Iggarantit • Moc akustyczna gwarantowana • Nivel sonoro farantido • Nivelul garantat al puterii acustice • Garantovaná hladina akustického výkonu • Zajamčena raven zvočne moči • Nivel de potencia sonora garantizado • Garanterad ljudeffektsnivå	88 dB(A)Lwa
Conformity Assessment Procedure (Noise) • Оценка за съответствие на процедурата (Шум) • Postup hodnocení plnění podmínek (hluk) • Procedure for overensstemmelsesvurdering (Støj) • Procedure van de conformiteitsbeoordeling (geluid) • Vastavushindamismenetlus (müra) • Vaatimustenmukaisuuden arviointimenetely (Melu) • Procédure d'évaluation de conformité (bruit) • Konformitätsbeurteilungsverfahren (Geräusch) • Διαδικασία Αξιολόγησης Συμμόρφωσης (Θόρυβος) • Megfelelőség-értékelési eljárás (Zaj) • Procedura di valutazione della conformità (rumore) • Atbilstības novērtējuma procedūra (troksnis) • Atitikties įvertinimo procedūra (garsas) • Procedura tal-Valutazzjoni tal-Konformità (Hoss) • Procedura oceny zgodności (poziom hałas) • Processo de avaliação de conformidade (nível sonoro) Procedura de evaluate a conformității (zgomot) • Postup vyhodnocovania zhodnosti (hluk) • Postopek za ugotavljanje skladnosti (hrup) • Procedimiento de evaluación de conformidad (ruido) • Procedur för bedömning av överensstämmelse (buller)	2000/14/EC Annex VI Part 1
UK Notified Body for 2000/14/EC • Нотифициран орган в Обединеното кралство за 2000/14/EO • Úřad certifikovaný podle směrnice č. 2000/14/EC • Det britiske bemyndigede organ for 2001/14/EF • Engels adviesorgaan voor 2000/14/EG • Ühendkuningriigi teavitatud asutus direktiivi 2000/14/EÜ mõistes • Direktiivin 2000/14/EY mukainen ilmoitettu tarkastuslaitos Isossa-Britanniassa • Organisme notifié concernant la directive 2000/14/CE • Britische benannte Stelle für 2000/14/EG • Κοινοποιημένος Οργανισμός Ηνωμένου Βασιλείου για 2000/14/ΕΚ • 2000/14/ΕΚ – egyesült királyságbeli bejelentett szervezet • Organismo Notificato in GB per 2000/14/CE • 2000/14/EK AK registrētā organizācija • JK notifikuotosis iestaigis 2000/14/EC • Korp Notifikat tar-Renju Unit ghal 2000/14/KE • Dopuszczona jednostka badawcza w Wielkiej Brytanii wg 2000/14/WE • Entidade notificada no Reino Unido para 2000/14/CE • Organism notificat în Marea Britanie pentru 2000/14/CE • Notifikovaný orgán Spojeného královstva pre smernicu 2000/14/ES • Britanski priglašeni organ za 2000/14/ES • Cuerpo notificado en el Reino Unido para 2000/14/CE • Anmält organ för 2000/14/EG i Storbritannien	John Moore More Turf Care Thieplatz 4 49583 Lienen Germany

DECLARATION OF CONFORMITY F/ 45-001

Operator Ear Noise Level • Оператор на нивото на доловим от ухото шум • Hladina hluku v oblasti uší operátora • Støjniveau i førers ørehøjde • Geluidsniveau oor bestuurder • Műratase operátori kõrvas • Melutaso käyttöajan korvan kohdalla • Niveau de bruit à hauteur des oreilles de l'opérateur • Schallpegel am Bedienerohr • Επιπεδο θορύβου σε λειτουργία • A kezelő fülénél mért zajszint • Livello di potenza sonora all'orecchio dell'operatore • Τροκήη ήμενις πτε οπερατορα αυς • Dirbančiojo su mašina patiriamo triukšmo lygis • Livell tal-Hoss fil-Widna tal-Operatur • Dopuszczalny poziom hałas dla operatora • Nivel sonoro nos ouvidos do operador • Nivelul zgomotului la urechea operatorului • Hladina hluku pôsobiaci na sluch operátora • Raven hrupa pri ušesu upravljavca • Nivel sonoro en el oído del operador • Ljudnivå vid förarens öra	88 dB(A)Lwa (2006/42/EC)
Harmonised standards used • Използвани хармонизирани стандарти • Použité harmonizované normy • Brugte harmoniserede standarder • Gebruikte geharmoniseerde standaards • Kasutatud ühtlustatud standardid • Käytetyt yhdenmukaistetut standardit • Normes harmonisées utilisées • Angewandte harmonisierte Normen • Εναρμονισμένα πρότυπα που χρησιμοποιήθηκαν • Harmonizált szabványok • Standard armonizzati applicati • Izmantotie saskaņotie standarti • Panaudoti suderinti standartai • Standards armonizzati usati • Normy spóje powiązane • Normas harmonizadas usadas • Standardele armonizate utilizate • Použité harmonizované normy • Uporabljeni usklajeni standardi • Estándares armonizados utilizados • Harmoniserade standarder som används	ANSI/OPEI 871.4:2012 BS EN ISO 13857 EN ISO 13854
Technical standards and specifications used • Използвани технически стандарти и спецификации • Použité technické normy a specifikace • Brugte tekniske standarder og specifikationer • Gebruikte technische standaards en specificaties • Kasutatud tehnilised standardid ja spetsifikatsioonid • Käytetyt tekniset standardit ja eritelmat • Spécifications et normes techniques utilisées • Angewandte technische Normen und Spezifikationen • Τεχνικά πρότυπα και προδιαγραφές που χρησιμοποιήθηκαν • Műszaki szabványok és specifikációk • Standard tecnici e specifiche applicati • Izmantotie tehniskie standarti un specifikācijas • Panaudoti techniniai standartai ir techninė informacija • Standards u specifikacijonijiet techniçi užati • Normy i specyfikacje techniczne powiązane • Normas técnicas e especificações usadas • Standardele tehnice și specificațiile utilizate • Použité technické normy a špecifikácie • Uporabljeni tehnični standardi in specifikacije • Estándares y especificaciones técnicas utilizadas • Tekniska standarder och specifikationer som används	ISO 21299 ISO 3767-1 ISO 5349-1 ISO 5349-2
The place and date of the declaration • Место и дата на декларацията • Místo a datum prohlášení • Sted og dato for erklæringen • Plaats en datum van de verklaring • Deklaratsiooni väljastamise koht ja kuupäev • Vakuutuksen paikka ja päivämäärä • Lieu et date de la déclaration • Ort und Datum der Erklärung • Τόπος και ημερομηνία δήλωσης • A nyilatkozat kelte (hely és idő) • Luogo e data della dichiarazione • Deklarācijas vieta un datums • Deklaracijos vieta ir data • Il-post u d-data tad-dikjarazzjoni • Miejsce i data wystawienia deklaracji • Local e data da declaração • Locul și data declarației • Miasto a dátum vyhlásenia • Kraj in datum izjave • Lugar y fecha de la declaración • Plats och datum för deklarationen	Smithco West Inc. 200 West Poplar Avenue Cameron, WI 54822 USA 15-Mar-18
Certificate Number • Номер на сертификат • Číslo osvědčení • Certifikatnummer • Certificaatnummer • Sertifikaadi number • Hyväksyntänumero • Numéro de certificat • Bescheinigungsnummer • Αριθμός Πιστοποιητικού • Hitelesítési szám • Numero del certificato • Sertifikāta numurs • Sertifikato numeris • Numru tač-Certifikat • Numer certyfikatu • Número do Certificado • Număr certificat • Číslo osvedčenia • Številka certifikata • Número de certificado • Certifikatsnummer	450012026-1

DECLARATION OF CONFORMITY F/ 45-003

DECLARATION OF CONFORMITY ▪ ДЕКЛАРАЦИЯ ЗА СЪОТВЕТСТВИЕ ▪ PROHLÁŠENÍ O SHODĚ ▪ OVERENSSTEMMELSESERKLÆRING ▪ CONFORMITEITSVERKLARING ▪ VASTAVUSDEKLARATSIOON ▪ VAATIMUSTENMUKAISUUSVAKUUTUS ▪ DECLARATION DE CONFORMITE ▪ KONFORMITÄTSEERKLÄRUNG ▪ ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ ▪ MEGFELELŐSÉGI NYILATKOZAT ▪ DICHIARAZIONE DI CONFORMITÀ ▪ ATBILSTĪBAS DEKLARĀCIJA ▪ ATITIKTIES DEKLARACIJA ▪ DIKJARAZZJONI TAL-KONFORMITÀ ▪ DEKLARACJA ZGODNOŚCI ▪ DECLARAÇÃO DE CONFORMIDADE ▪ DECLARAȚIE DE CONFORMITATE ▪ VYHLÁŠENIE O ZHODE ▪ IZJAVA O SKLADNOSTI ▪ DECLARACIÓN DE CONFORMIDAD ▪ DEKLARATION OM ÖVERENSSTÄMMELSE

Business name and full address of the manufacturer • Търговско име и пълен адрес на производителя • Obchodní jméno a plná adresa výrobce • Producentens firmanavn og fulde adresse • Bedrijfsnaam en volledige adres van de fabrikant • Tootja ärimini ja täielik aadress • Valmistajan toiminimi ja täydellinen osoite • Nom commercial et adresse complète du fabricant • Firmennamen und vollständige Adresse des Herstellers • Επιχειρησιακή και τεχνολογική διεύθυνση κατασκευαστή • A gyártó üzleti neve és teljes címe • Ragione sociale e indirizzo completo del fabbricante • Uzņēmuma nosaukums un pilna ražotāja adrese • Verslo pavadinimas ir pilnas gamintojo adresas • Išem kumercijai u indrizz shih tal-fabrikant • Nazwa firmy i pełny adres producenta • Nome da empresa e endereço completo do fabricante • Denumirea comercială și adresa completă a producătorului • Obchodný názov a úplná adresa výrobcu • Naziv podjetja in polni naslov proizvajalca • Nombre de la empresa y dirección completa del fabricante • Tillverkarens företagsnamn och kompletta adress	Smithco Inc. 303 W Lancaster Ave Suite #284 Wayne, PA 19087 USA
Product Code • Код на продукта • Kód výrobku • Produktkode • Productcode • Toote kood • Tuotekoodi • Code produit • Produktcode • Κωδικός προϊόντος • Termékkód • Codice prodotto • Produkta kods • Produkto kodas • Kodici tal-Prodott • Kod produktu • Código do Produto • Cod produs • Kód výrobku • Oznaka proizvoda • Código de producto • Produktkod	45-003
Machine Name • Наименование на машината • Název stroje • Maskinnavn • Machinenam • Masina nimi • Laitteen nimi • Nom de la machine • Maschinenbezeichnung • Ονομασία μηχανήματος • Gépnév • Denominazione della macchina • Iekārtas nosaukums • Mašinos pavadinimas • Išem tal-Magna • Nazwa urządzenia • Nome da Máquina • Numele echipamentului • Název stroja • Naziv stroja • Nombre de la máquina • Maskinens namn	Sand Star III
Designation • Предназначение • Označení • Betegnelse • Benaming • Nimetus • Tyypimerkintä • Pažymėjimas • Bezeichnung • Χαρακτηρισμός • Megnevezés • Funzione • Apzīmējums • Lithuanian • Denominazzjoni • Oznaczenie • Designação • Specificație • Označenje • Namen stroja • Descripción • Beteckning	Bunker Rake
Serial Number • Серийн номер • Sériové číslo • Seriennummer • Seriennummer • Seerianumber • Valmistusnumero • Numéro de série • Seriennummer • Σειριακός αριθμός • Sorozatszám • Numero di serie • Sērijas numurs • Serijos numeris • Numru Serjali • Numer serjiny • Número de Série • Număr de serie • Sériové číslo • Serijska številka • Número de serie • Seriennummer	3HS0148-3HS0999
Engine • Двигател • Motor • Motor • Motor • Mootor • Moottori • Moteur • Motor • Μηχανή • Modulnév • Motore • Dzinējs • Variklis • Sahha Netta Installata • Silnik • Motor • Motor • Motor • Motor • Motor • Motor • Motor	Briggs & Stratton Vanguard
Net Installed Power • Нетна инсталирана мощност • Čistý instalovaný výkon • Installeret nettoeffekt • Netto geïnstalleerd vermogen • Installeeritud netovõimsus • Asennettu nettoteho • Puissance nominale nette • Installierte Nettoleistung • Καθαρή εγκατεστημένη ισχύς • Nettó beépített teljesítmény • Potenza netta installata • Paredzētā tīkla jauda • Grynoji galia • Wisa' tal-Qtugh • Moc zainstalowana netto • Potência instalada • Puterea instalată netă • Čistý inštalovaný výkon • Neto vgrajena moč • Potencia instalada neta • Nettoeffekt	13kW
Conforms to Directives • В съответствие с директивите • Splňuje podmínky směrnic • Er i overensstemmelse med direktiver • Voldoet aan de richtlijnen • Vastab direktiividele • Direktiivien mukainen • Conforme aux directives • Entspricht Richtlinien • Ακολουθήστε πιστά τις Οδηγίες • Megfelel az irányelveknek • Conforme alle Direttive • Atbilst direktīvām • Atitinka direktyvų reikalavimus • Valutazzjoni tal-Konformità • Dyrektywy związane • Cumpre as Directivas • Respectă Directivile • Je v súlade so smernicami • Skladnost z direktivami • Cumple con las Directivas • Uppfyller direktiv	2006/42/EC; 2000/14/EC Annex VI . Part 1
Conformity Assessment • Оценка за съответствие • Hodnocení plnění podmínek • Overensstemmelsesvurdering • Conformiteitsbeoordeling • Vastavushindamine • Vaatimustenmukaisuuden arviointi • Evaluation de conformité • Konformitätsbeurteilung • Διαπίστωση Συμμόρφωσης • Megfelelőség-értékelés • Valutazione della conformità • Atbilstības novērtējums • Atitikties įvertinimas • Livell tal-Qawwa tal-Hoss Imkejjet • Ocena zgodności • Avaliação de Conformidade • Evaluarea conformității • Vyhodnotenie zhodnosti • Ocena skladnosti • Evaluación de conformidad • Bedömning av överensstämmelse	2006/42/EC Annex VIII
Measured Sound Power Level • Измерено ниво на звукова мощност • Naměřený akustický výkon • Målte lydstyrkeniveau • Gemeten geluidsniveau • Mõõdetud helivõimsuse tase • Mitattu äänitehotaso • Niveau de puissance sonore mesuré • Gemessener Schalldruckpegel • Σταθμισμένο επίπεδο ηχητικής ισχύος • Mért hangteljesítményszint • Livello di potenza sonora misurato • Izmērītais skaņas jaudas līmenis • Išmatuotas garso stiprumo lygis • Livell tal-Qawwa tal-Hoss Iggarantit • Moc akustyczna mierzona • Nivel sonoro medido • Nivelul măsurat al puterii acustice • Nameranā hladina akustického výkonu • Izmerjena raven zvočne moči • Nivel de potencia sonora medido • Uppmätt ljudeffektsnivå	87dB(A)Lwa
Guaranteed Sound Power Level • Гарантирано ниво на звукова мощност • Garantovaný akustický výkon • Garanteret lydstyrkeniveau • Gegarandeerd geluidsniveau • Garantieritud helivõimsuse tase • Taattu äänitehotaso • Niveau de puissance sonore garanti • Garantierter Schalldruckpegel • Εγγυημένο επίπεδο ηχητικής ισχύος • Szavatolt hangteljesítményszint • Livello di potenza sonora garantito • Garantētais skaņas jaudas līmenis • Garantuotas garso stiprumo lygis • Livell tal-Qawwa tal-Hoss Iggarantit • Moc akustyczna gwarantowana • Nivel sonoro garantido • Nivelul garantat al puterii acustice • Garantovaná hladina akustického výkonu • Zajamčena raven zvočne moči • Nivel de potencia sonora garantizado • Garanterad ljudeffektsnivå	88 dB(A)Lwa
Conformity Assessment Procedure (Noise) • Оценка за съответствие на процедурата (Шум) • Postup hodnocení plnění podmínek (hluk) • Procedure for overensstemmelsesvurdering (Støj) • Procedure van de conformiteitsbeoordeling (geluid) • Vastavushindamismenetlus (müra) • Vaatimustenmukaisuuden arviointimenetely (Melu) • Procédure d'évaluation de conformité (bruit) • Konformitätsbeurteilungsverfahren (Geräusch) • Διαδικασία Αξιολόγησης Συμμόρφωσης (Θόρυβος) • Megfelelőség-értékelési eljárás (Zaj) • Procedura di valutazione della conformità (rumore) • Atbilstības novērtējuma procedūra (troksnis) • Atitikties įvertinimo procedūra (garsas) • Procedura tal-Valutazzjoni tal-Konformità (Hoss) • Procedura oceny zgodności (poziom hałas) • Processo de avaliação de conformidade (nível sonoro) Procedura de evaluate a conformității (zgomot) • Postup vyhodnocovania zhodnosti (hluk) • Postopek za ugotavljanje skladnosti (hrup) • Procedimiento de evaluación de conformidad (ruido) • Procedur för bedömning av överensstämmelse (buller)	2000/14/EC Annex VI Part 1
UK Notified Body for 2000/14/EC • Нотифициран орган в Обединеното кралство за 2000/14/EO • Úřad certifikovaný podle směrnice č. 2000/14/EC • Det britiske bemyndigede organ for 2001/14/EF • Engels adviesorgaan voor 2000/14/EG • Ühendkuningriigi teavitatud asutus direktiivi 2000/14/EÜ mõistes • Direktiivin 2000/14/EY mukainen ilmoitettu tarkastuslaitos Isossa-Britanniassa • Organisme notifié concernant la directive 2000/14/CE • Britische benannte Stelle für 2000/14/EG • Κοινοποιημένος Οργανισμός Ηνωμένου Βασιλείου για 2000/14/EK • 2000/14/EK – egyesült királyságbeli bejelentett szervezet • Organismo Notificato in GB per 2000/14/CE • 2000/14/EK AK registrētā organizācija • JK notifikuotais iestādes 2000/14/EC • Korp Notifikat tar-Renju Unit għal 2000/14/KE • Dopuszczona jednostka badawcza w Wielkiej Brytanii wg 2000/14/WE • Entidade notificada no Reino Unido para 2000/14/CE • Organism notificat în Marea Britanie pentru 2000/14/CE • Notifikovaný orgán Spojeného královstva pre smernicu 2000/14/ES • Britanski prijavljeni organ za 2000/14/ES • Cuerpo notificado en el Reino Unido para 2000/14/CE • Anmält organ för 2000/14/EG i Storbritannien	John Moore More Turf Care Thieplatz 4 49583 Lienen Germany

DECLARATION OF CONFORMITY F/ 45-003

Operator Ear Noise Level • Оператор на нивото на доловим от ухото шум • Hladina hluku v oblasti uší operátora • Støjniveau i førers ørehøjde • Geluidsniveau oor bestuurder • Műratase operátori kõrvas • Melutaso käyttöjään korvan kohdalla • Niveau de bruit à hauteur des oreilles de l'opérateur • Schallpegel am Bedienerohr • Επιπεδο θορύβου σε λειτουργία • A kezelő fülénél mért zajszint • Livello di potenza sonora all'orecchio dell'operatore • Τροκήη ήμενις πτε οπερατορα αυς • Dirbančiojo su mašina patiriamo triukšmo lygis • Livell tal-Hoss fil-Widna tal-Operatur • Dopuszczalny poziom hałas dla operatora • Nivel sonoro nos ouvidos do operador • Nivelul zgomotului la urechea operatorului • Hladina hluku pôsobiaci na sluch operátora • Raven hrupa pri ušesu upravljavca • Nivel sonoro en el oído del operador • Ljudnivå vid förarens öra	88 dB(A)Lwa (2006/42/EC)
Harmonised standards used • Използвани хармонизирани стандарти • Použité harmonizované normy • Brugte harmoniserede standarder • Gebruikte geharmoniseerde standaards • Kasutatud ühtlustatud standardid • Käytetyt yhdenmukaistetut standardit • Normes harmonisées utilisées • Angewandte harmonisierte Normen • Εναρμονισμένα πρότυπα που χρησιμοποιήθηκαν • Harmonizált szabványok • Standard armonizzati applicati • Izmantotie saskaņotie standarti • Panaudoti suderinti standartai • Standards armonizzati usati • Normy spojne powiązane • Normas harmonizadas usadas • Standardele armonizate utilizate • Použité harmonizované normy • Uporabljeni usklajeni standardi • Estándares armonizados utilizados • Harmoniserade standarder som används	ANSI/OPEI 871.4:2012 BS EN ISO 13857 EN ISO 13854
Technical standards and specifications used • Използвани технически стандарти и спецификации • Použité technické normy a specifikace • Brugte tekniske standarder og specifikationer • Gebruikte technische standaards en specificaties • Kasutatud tehnilised standardid ja spetsifikatsioonid • Käytetyt tekniset standardit ja eritelmat • Spécifications et normes techniques utilisées • Angewandte technische Normen und Spezifikationen • Τεχνικά πρότυπα και προδιαγραφές που χρησιμοποιήθηκαν • Műszaki szabványok és specifikációk • Standard tecnici e specifiche applicati • Izmantotie tehniskie standarti un specifikācijas • Panaudoti techniniai standartai ir techninė informacija • Standards u specifikacijonijiet techniçi užati • Normy i specyfikacje techniczne powiązane • Normas técnicas e especificações usadas • Standardele tehnice și specificațiile utilizate • Použité technické normy a špecifikácie • Uporabljeni tehnični standardi in specifikacije • Estándares y especificaciones técnicas utilizadas • Tekniska standarder och specifikationer som används	ISO 21299 ISO 3767-1 ISO 5349-1 ISO 5349-2
The place and date of the declaration • Место и дата на декларацията • Místo a datum prohlášení • Sted og dato for erklæringen • Plaats en datum van de verklaring • Deklaratsiooni väljastamise koht ja kuupäev • Vakuutuksen paikka ja päivämäärä • Lieu et date de la déclaration • Ort und Datum der Erklärung • Τόπος και ημερομηνία δήλωσης • A nyilatkozat kelte (hely és idő) • Luogo e data della dichiarazione • Deklarācijas vieta un datums • Deklaracijos vieta ir data • Il-post u d-data tad-dikjarazzjoni • Miejsce i data wystawienia deklaracji • Local e data da declaração • Locul și data declarației • Miasto a dátum vyhlásenia • Kraj in datum izjave • Lugar y fecha de la declaración • Plats och datum för deklarationen	Smithco West Inc. 200 West Poplar Avenue Cameron, WI 54822 USA 15-Mar-18
Certificate Number • Номер на сертификат • Číslo osvědčení • Certifikatnummer • Certificaatnummer • Sertifikaadi number • Hyväksyntänumero • Numéro de certificat • Bescheinigungsnummer • Αριθμός Πιστοποιητικού • Hitelesítési szám • Numero del certificato • Sertifikāta numurs • Sertifikato numeris • Numru tač-Certifikat • Numer certyfikatu • Número do Certificado • Număr certificat • Číslo osvedčenia • Številka certifikata • Número de certificado • Certifikatsnummer	450032026-1

DECLARATION OF CONFORMITY F/ 45-205

DECLARATION OF CONFORMITY ▪ ДЕКЛАРАЦИЯ ЗА СЪОТВЕТСТВИЕ ▪ PROHLÁŠENÍ O SHODĚ ▪ OVERENSSTEMMELSESERKLÆRING ▪ CONFORMITEITSVERKLARING ▪ VASTAVUSDEKLARATSIOON ▪ VAATIMUSTENMUKAISUUSVAKUUTUS ▪ DECLARATION DE CONFORMITE ▪ KONFORMITÄTSEERKLÄRUNG ▪ ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ ▪ MEGFELELŐSÉGI NYILATKOZAT ▪ DICHIARAZIONE DI CONFORMITÀ ▪ ATBILSTĪBAS DEKLARĀCIJA ▪ ATITIKTIES DEKLARACIJA ▪ DIKJARAZZJONI TAL-KONFORMITÀ ▪ DEKLARACJA ZGODNOŚCI ▪ DECLARAÇÃO DE CONFORMIDADE ▪ DECLARAȚIE DE CONFORMITATE ▪ VYHLÁŠENIE O ZHODE ▪ IZJAVA O SKLADNOSTI ▪ DECLARACIÓN DE CONFORMIDAD ▪ DEKLARATION OM ÖVERENSSTÄMMELSE

Business name and full address of the manufacturer • Търговско име и пълен адрес на производителя • Obchodní jméno a plná adresa výrobce • Producentens firmanavn og fulde adresse • Bedrijfsnaam en volledige adres van de fabrikant • Tootja ärimini ja täielik aadress • Valmistajan toiminimi ja täydellinen osoite • Nom commercial et adresse complète du fabricant • Firmenname und vollständige Adresse des Herstellers • Επιχειρησια και τοχυδρωκη διεθυνση κατασκευαστη • A gyártó üzleti neve és teljes címe • Ragione sociale e indirizzo completo del fabbricante • Uzņēmuma nosaukums un pilna ražotāja adrese • Verslo pavadinimas ir pilnas gamintojo adresas • Isem kummerčiali u indirizz shih tal-fabrikant • Nazwa firmy i pełny adres producenta • Nome da empresa e endereço completo do fabricante • Denumirea comercială și adresa completă a producătorului • Obchodný názov a úplná adresa výrobcu • Naziv podjetja in polni naslov proizvajalca • Nombre de la empresa y dirección completa del fabricante • Tillverkarens företagsnamn och kompletta adress	Smithco Inc. 303 W Lancaster Ave Suite #284 Wayne, PA 19087 USA
Product Code • Код на продукта • Kód výrobku • Produktkode • Productcode • Toote kood • Tuotekoodi • Code produit • Produktcode • Κωδικός προϊόντος • Termékkód • Codice prodotto • Produkta kods • Produkto kodas • Kodici tal-Prodott • Kod produktu • Código do Produto • Cod produs • Kód výrobku • Oznaka proizvoda • Código de producto • Produktkod	45-205
Machine Name • Наименование на машината • Název stroje • Maskinnavn • Machinenam • Masina nimi • Laitteen nimi • Nom de la machine • Maschinenbezeichnung • Ονομασία μηχανήματος • Gépnév • Denominazione della macchina • Iekārtas nosaukums • Mašinos pavadinimas • Isem tal-Magna • Nazwa urządzenia • Nome da Máquina • Numele echipamentului • Název stroja • Naziv stroja • Nombre de la máquina • Maskinens namn	Diesel Sand Star V
Designation • Предназначение • Označení • Betegnelse • Benaming • Nimetus • Tyypimerkintä • Pažymėjimas • Bezeichnung • Χαρακτηρισμός • Megnevezés • Funzione • Apzīmējums • Lithuanian • Denominazzjoni • Oznaczenie • Designação • Specificație • Označenje • Namen stroja • Descripción • Beteckning	Bunker Rake
Serial Number • Серийн номер • Sériové číslo • Seriennummer • Seriennummer • Seerianumber • Valmistusnumero • Numéro de série • Seriennummer • Σειριακός αριθμός • Sorozatszám • Numero di serie • Sērijas numurs • Serijos numeris • Numru Serjali • Numer serjiny • Número de Série • Număr de serie • Sériové číslo • Serijska številka • Número de serie • Seriennummer	5D271-5D500
Engine • Двигател • Motor • Motor • Motor • Mootor • Mootori • Moteur • Motor • Μηχανή • Modulnėv • Motore • Dzinējs • Variklis • Sahha Netta Installata • Silnik • Motor • Motor • Motor • Motor • Motor • Motor • Motor	D-722 Diesel Kubota Engine
Net Installed Power • Нетна инсталирана мощност • Čistý instalovaný výkon • Installeret nettoeffekt • Netto geïnstalleerd vermogen • Installeeritud netovõimsus • Asennettu nettoteho • Puissance nominale nette • Installierte Nettoleistung • Καθαρή εγκατεστημένη ισχύς • Nettó beépített teljesítmény • Potenza netta installata • Paredzētā tīkla jauda • Grynoji galia • Wisa' tal-Qtugh • Moc zainstalowana netto • Potência instalada • Puterea instalată netă • Čistý inštalovaný výkon • Neto vgrajena moč • Potencia instalada neta • Nettoeffekt	18kW
Conforms to Directives • В съответствие с директивите • Splūuje podminky smēric • Er i overensstemmelse med direktiver • Voldoet aan de richtlijnen • Vastab direktiividele • Direktiivien mukainen • Conforme aux directives • Entspricht Richtlinien • Ακολουθήστε πιστά τις Οδηγίες • Megfelel az irányelveknek • Conforme alle Direttive • Atbilst direktīvām • Atitinka direktyvų reikalavimus • Valutazzjoni tal-Konformità • Dyrektywy związane • Cumpră as Directivas • Respectă Directivale • Je v sùlade so smernicami • Skladnost z direktivami • Cumple con las Directivas • Uppfyller direktiv	2006/42/EC; 2000/14/EC Annex VI . Part 1
Conformity Assessment • Оценка за съответствие • Hodnocení plnění podmínek • Overensstemmelsesvurdering • Conformiteitsbeoordeling • Vastavushindamine • Vaatimustenmukaisuuden arviointi • Evaluation de conformité • Konformitätsbeurteilung • Διαπίστωση Συμμόρφωσης • Megfelelőség-értékelés • Valutazione della conformità • Atbilstības novērtējums • Atitikties įvertinimas • Livell tal-Qawwa tal-Hoss Imkejjet • Ocena zgodności • Avaliação de Conformidade • Evaluarea conformității • Vyhodnotenie zhodnosti • Ocena skladnosti • Evaluación de conformidad • Bedömning av överensstämmelse	2006/42/EC Annex VIII
Measured Sound Power Level • Измерено ниво на звукова мощност • Naměřený akustický výkon • Målte lydstyrkeniveau • Gemeten geluidsniveau • Mõõdetud helivõimsuse tase • Mitattu äänitehotaso • Niveau de puissance sonore mesuré • Gemessener Schalldruckpegel • Σταθμισμένο επίπεδο ηχητικής ισχύος • Mért hangteljesítményszint • Livello di potenza sonora misurato • Izmērītais skaņas jaudas līmenis • Išmatuotas garso stiprumo lygis • Livell tal-Qawwa tal-Hoss Iggarantit • Moc akustyczna mierzona • Nivel sonoro medido • Nivelul măsurat al puterii acustice • Nameranā hladina akustického výkonu • Izmerjena raven zvočne moči • Nivel de potencia sonora medido • Uppmätt ljudeffektsnivå	88dB(A)Lwa
Guaranteed Sound Power Level • Гарантирано ниво на звукова мощност • Garantovaný akustický výkon • Garanteret lydstyrkeniveau • Gegarandeerd geluidsniveau • Garanteeritud helivõimsuse tase • Taattu äänitehotaso • Niveau de puissance sonore garanti • Garanterter Schalldruckpegel • Εγγυημένο επίπεδο ηχητικής ισχύος • Szavatolt hangteljesítményszint • Livello di potenza sonora garantito • Garantētais skaņas jaudas līmenis • Garantuotas garso stiprumo lygis • Livell tal-Qawwa tal-Hoss Iggarantit • Moc akustyczna gwarantowana • Nivel sonoro farantido • Nivelul garantat al puterii acustice • Garantovaná hladina akustického výkonu • Zajamčena raven zvočne moči • Nivel de potencia sonora garantizado • Garanterad ljudeffektsnivå	89dB(A)Lwa
Conformity Assessment Procedure (Noise) • Оценка за съответствие на процедурата (Шум) • Postup hodnocení plnění podmínek (hluk) • Procedure for overensstemmelsesvurdering (Støj) • Procedure van de conformiteitsbeoordeling (geluid) • Vastavushindamismenetlus (müra) • Vaatimustenmukaisuuden arviointimenetely (Melu) • Procédure d'évaluation de conformité (bruit) • Konformitätsbeurteilungsverfahren (Geräusch) • Διαδικασία Αξιολόγησης Συμμόρφωσης (Θόρυβος) • Megfelelőség-értékelési eljárás (Zaj) • Procedura di valutazione della conformità (rumore) • Atbilstības novērtējuma procedūra (troksnis) • Atitikties įvertinimo procedūra (garsas) • Procedura tal-Valutazzjoni tal-Konformità (Hoss) • Procedura oceny zgodności (poziom hałas) • Processo de avaliação de conformidade (nível sonoro) Procedura de evaluate a conformității (zgomot) • Postup vyhodnocovania zhodnosti (hluk) • Postopek za ugotavljanje skladnosti (hrup) • Procedimiento de evaluación de conformidad (ruido) • Procedur för bedömning av överensstämmelse (buller)	2000/14/EC Annex VI Part 1
UK Notified Body for 2000/14/EC • Нотифициран орган в Обединеното кралство за 2000/14/EO • Úřad certifikovaný podle směrnice č. 2000/14/EC • Det britiske bemyndigede organ for 2001/14/EF • Engels adviesorgaan voor 2000/14/EG • Ühendkuningriigi teavitatud asutus direktiivi 2000/14/EÜ mõistes • Direktiivin 2000/14/EY mukainen ilmoitettu tarkastuslaitos Isossa-Britanniassa • Organisme notifié concernant la directive 2000/14/CE • Britische benannte Stelle für 2000/14/EG • Κοινοποιημένος Οργανισμός Ηνωμένου Βασιλείου για 2000/14/ΕΚ • 2000/14/ΕΚ – egyesült királyságbeli bejelentett szervezet • Organismo Notificato in GB per 2000/14/CE • 2000/14/EK AK registrētā organizācija • JK notifikuotosios įstaigos 2000/14/EC • Korp Notifikat tar-Renju Unit ghal 2000/14/KE • Dopuszczona jednostka badawcza w Wielkiej Brytanii wg 2000/14/WE • Entidade notificada no Reino Unido para 2000/14/CE • Organism notificat în Marea Britanie pentru 2000/14/CE • Notifikovaný orgán Spojeného královstva pre smernicu 2000/14/ES • Britanski prijavljeni organ za 2000/14/ES • Cuerpo notificado en el Reino Unido para 2000/14/CE • Anmält organ för 2000/14/EG i Storbritannien	John Moore More Turf Care Thieplatz 4 49583 Lienen Germany

DECLARATION OF CONFORMITY E/ 45-205

Operator Ear Noise Level • Оператор на нивото на доловим от ухото шум • Hladina hluku v oblasti uší operátora • Støjniveau i førers ørehøjde • Geluidsniveau oor bestuurder • Műratase operátori kõrvas • Melutaso käyttöjään korvan kohdalla • Niveau de bruit à hauteur des oreilles de l'opérateur • Schallpegel am Bedienerohr • Επιπεδο θορύβου σε λειτουργία • A kezelő fülénél mért zajszint • Livello di potenza sonora all'orecchio dell'operatore • Τροκήη ήμενις πτε οπερατορα αυς • Dirbančiojo su mašina patiriamo triukšmo lygis • Livell tal-Hoss fil-Widna tal-Operatur • Dopuszczalny poziom hałas dla operatora • Nivel sonoro nos ouvidos do operador • Nivelul zgomotului la urechea operatorului • Hladina hluku pôsobiaci na sluch operátora • Raven hrupa pri ušesu upravljavca • Nivel sonoro en el oído del operador • Ljudnivå vid förarens öra	89 dB(A)Lwa (2006/42/EC)
Harmonised standards used • Използвани хармонизирани стандарти • Použité harmonizované normy • Brugte harmoniserede standarder • Gebruikte geharmoniseerde standaards • Kasutatud ühtlustatud standardid • Käytetyt yhdenmukaistetut standardit • Normes harmonisées utilisées • Angewandte harmonisierte Normen • Εναρμονισμένα πρότυπα που χρησιμοποιήθηκαν • Harmonizált szabványok • Standard armonizzati applicati • Izmantotie saskaņotie standarti • Panaudoti suderinti standartai • Standards armonizzati usati • Normy spojne powiązane • Normas harmonizadas usadas • Standardele armonizate utilizate • Použité harmonizované normy • Uporabljeni usklajeni standardi • Estándares armonizados utilizados • Harmoniserade standarder som används	ANSI/OPEI 871.4:2012 BS EN ISO 13857 EN ISO 13854
Technical standards and specifications used • Използвани технически стандарти и спецификации • Použité technické normy a specifikace • Brugte tekniske standarder og specifikationer • Gebruikte technische standaards en specificaties • Kasutatud tehnilised standardid ja spetsifikatsioonid • Käytetyt tekniset standardit ja eritelmat • Spécifications et normes techniques utilisées • Angewandte technische Normen und Spezifikationen • Τεχνικά πρότυπα και προδιαγραφές που χρησιμοποιήθηκαν • Műszaki szabványok és specifikációk • Standard tecnici e specifiche applicati • Izmantotie tehniskie standarti un specifikācijas • Panaudoti techniniai standartai ir techninė informacija • Standards u specifikacijonijiet techniçi užati • Normy i specyfikacje techniczne powiązane • Normas técnicas e especificações usadas • Standardele tehnice și specificațiile utilizate • Použité technické normy a špecifikácie • Uporabljeni tehnični standardi in specifikacije • Estándares y especificaciones técnicas utilizadas • Tekniska standarder och specifikationer som används	ISO 21299 ISO 3767-1 ISO 5349-1 ISO 5349-2
The place and date of the declaration • Место и дата на декларацията • Místo a datum prohlášení • Sted og dato for erklæringen • Plaats en datum van de verklaring • Deklaratsiooni väljastamise koht ja kuupäev • Vakuutuksen paikka ja päivämäärä • Lieu et date de la déclaration • Ort und Datum der Erklärung • Τόπος και ημερομηνία δήλωσης • A nyilatkozat kelte (hely és idő) • Luogo e data della dichiarazione • Deklarācijas vieta un datums • Deklaracijos vieta ir data • Il-post u d-data tad-dikjarazzjoni • Miejsce i data wystawienia deklaracji • Local e data da declaração • Locul și data declarației • Miasto a dátum vyhlásenia • Kraj in datum izjave • Lugar y fecha de la declaración • Plats och datum för deklarationen	Smithco West Inc. 200 West Poplar Avenue Cameron, WI 54822 USA 15-Mar-18
Certificate Number • Номер на сертификат • Číslo osvědčení • Certifikatnummer • Certificaatnummer • Sertifikaadi number • Hyväksyntänumero • Numéro de certificat • Bescheinigungsnummer • Αριθμός Πιστοποιητικού • Hitelesítési szám • Numero del certificato • Sertifikāta numurs • Sertifikato numeris • Numru tač-Certifikat • Numer certyfikatu • Número do Certificado • Număr certificat • Číslo osvedčenia • Številka certifikata • Número de certificado • Certifikatsnummer	452052026-1

QUICK REFERENCE

REPLACEMENT FILTERS- GAS

23-031	Hydraulic Oil Filter	
15-165-01	Air Filter Element with Pre-Cleaner	Briggs and Stratton# 5050
42-076-03	Air Filter Element Fender Mounted	
42-834-03	Safety Filter Element Fender Mounted	
50-403	Fuel Filter	
13-531	Engine Oil Filter	Briggs and Stratton #492932
18-462	Oil Drain Valve	

REPLACEMENT FILTERS-DIESEL

23-031	Hydraulic Oil Filter	
42-076-03	Air Filter Element Fender Mounted	
42-834-03	Safety Filter Element Fender Mounted	
77-213	Air Cleaner Element (steel canister)	Kubota # 70000 -11221
77-214	Fuel Filter Assembly	Kubota # 19204-43013
17-043	Fuel Filter Element	Kubota# 15881-97011
17-255	Oil Filter Cartridge	

SEAL KITS

45-373	Piston Pump	
45-373-01	Overhaul Kit	
45-065 & 45-066	Wheel Motor (Gas Rear)	
14-080	Seal Kit	
45-067	Front Wheel Motor	
14-080	Seal Kit	
43-241 & 43-242	Wheel Motor (Diesel Rear)	
14-080	Seal Kit	
13-729	2-Bank Valve	
78-415-03	Seal Kit	
10-554	Hydraulic Cylinder (Center Attachment Lift Cylinder)	
14-529	Seal Kit	
43-150	Hydraulic Cylinder (Rake Lift)	
43-150-01	Seal Kit	
10-554	Steering Hydraulic Cylinder	
14-529	Seal Kit	

FLUIDS

Engine Oil	Refer to Engine Manual
Hydraulic Fluid	SAE 10W-40 API Service SJ or higher Motor Oil

OTHER PARTS

Spark Plugs	RC12YC (Gap 0.030 inch (0.76mm))	
48-265	Turf Tire and Wheel	
77-210	Radiator	Kubota# 16676-72062
42-359	Pump Belts	

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The Smithco Commercial Products Two-Year Limited Warranty

Smithco, Inc. (Smithco) warrants your 2016 or newer Smithco Commercial Product ("Product") purchased after October 1, 2016 to be free from defects in materials or workmanship for the period of time listed below. Where a warrantable condition exists, Smithco will repair the Product at no cost to you including diagnosis, labor (at the Smithco standard labor rate, subject to the Smithco flat rate schedule), and parts.

Warranty Duration is:

- (1) Two years, 1500 operational hours* from the date of delivery to the original purchaser or Five years from the date of original manufacturer of the product, whichever occurs first. (*Products equipped with hour meter).
- (2) Products used in rental situations are covered for 90 days from date of delivery to original user/renter.

Owner Responsibilities:

As the Product owner, you are responsible for required maintenance and adjustments stated in your Owner's Manual. Failure to perform required maintenance and adjustments can be grounds for disallowing a warranty claim. **You are particularly responsible to train all present and future operators of this product on the safe operation of this product at your location.**

Instructions for Obtaining Warranty Service:

You are responsible for notifying the Authorized Smithco Products Distributor from whom you purchased the Product as soon as you believe a warrantable condition exists and not later than 30 days from discovery of the condition.

If you need help locating an Authorized Smithco Distributor, or if you have questions regarding your warranty rights or responsibilities, you may contact us at:

Smithco Product Support Department
200 West Poplar Ave.
Cameron, Wisconsin 54822
Telephone: 800-891-9435 E-Mail: ProductSupport@Smithco.com

Maintenance Parts:

Parts scheduled for replacement as required maintenance ("Maintenance Parts"), are warranted for the period of time up to the scheduled replacement time for that part.

Items/Conditions Not Covered:

Not all product failures or malfunctions that occur during the warranty period are defects in materials or workmanship. The items/conditions listed below are not covered by this warranty:



Product failures which result from the use of non-Smithco replacement parts, or from installation and use of add-on, modified, or unapproved accessories are not covered.



Product failures which result from failure to perform required maintenance and/or adjustments are not covered.



Product failures that result from operating the Product in an abusive, negligent or reckless manner are not covered.



This warranty does not apply to parts subject to consumption through use, unless found to be defective. Examples of parts which are consumed, or used up, during normal Product operation include, but are not limited to: blades, tines, teeth, scarifiers, rakes, plates, wear plates, castor wheels, tires, batteries, filters, belts, nozzles, etc.



This warranty does not apply to failures caused by outside influence. Items considered to be outside influence include, but are not limited to, weather, storage practices, contamination, use of unapproved coolants, lubricants, additives, or chemicals, etc.



This warranty does not apply to normal “wear and tear” items. Normal “Wear and Tear” includes, but is not limited to, damage to seats due to wear or abrasion, worn painted surfaces, scratched decals or windows, etc.



Smithco may require the return of failed parts or components in order to determine the validity of any warranty claim.



Smithco will not be obligated to replace components of other manufacturers if inspection by the original component manufacturer indicates that failure was due to normal wear and tear, expected consumption through use or improper care or service.

Other Legal Disclaimers:

The above remedy for product defects through repair or replacement by an authorized Smithco distributor or dealer is the purchaser's sole remedy for any defect. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

THERE ARE NO OTHER EXPRESS WARRANTIES OTHER THAN THOSE SET FORTH ABOVE. ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE ARE LIMITED TO THE DURATION OF THE LIMITED WARRANTIES CONTAINED HEREIN.

Some states may not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

THE SMITHCO COMPANY IS NOT LIABLE FOR INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH THE USE OF THE PRODUCT, INCLUDING ANY COST OR EXPENSE OF PROVIDING A SUBSTITUTE PRODUCT OR SERVICE DURING PERIODS OF MALFUNCTION OR NON-USE.

Some states may not allow the exclusion of indirect, incidental or consequential damages, so the above exclusion may not apply to you.

Smithco neither assumes, nor authorizes any person to assume for it, any other liability in connection with the sale or use of this product.

