





Patent Pending BILLY GOAT FORCE BLOWER Owner's Manual

Accessories





Part No 440021 1 Form No F101706A

BILLY GOAT

FORCE BLOWER Owner's Manual

ABOUT THIS MANUAL

THANK YOU for purchasing a BILLY GOAT [®] *FORCE Blower*. Your new machine has been carefully designed and manufactured to provide years of reliable and productive service. This manual provides complete operating and maintenance instructions that will help to maintain your FORCE Blower in top running order. Read this manual carefully before assembling, operating, or servicing your equipment.

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MAINTENANCE RECORD	

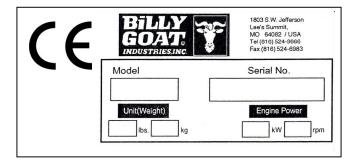


SERIAL PLATE DATA

Record the model number, serial number, date of purchase, and where purchased.

Purchase Date:	

Purchased From:



F1300H **Specifications** F900S F900H Engine: HP 9.0 HP (6.6kW) 9.0 HP (6.6kW) 13.0 HP (9.6kW) Engine: Model EX270D50021 GX270K1QA2 GX390K1QAA2 Engine: Type SUBARU OHC HONDA OHV HONDA OHV **Engine: Fuel Capacity** 6.4 qt. (6.1L) 6.3 qt. (6.0L) 6.5 qt. (6.1L) Engine: Oil Capacity 1.05 qt. (1.0L) 1.16 qt. (1.1L) 1.16 qt. (1.1L) Total Unit Weight: 138 # (62.6Kg) 143 # (64.8Kg) 160 # (72.6Kg) Overall Length: 58"(1.43m) 58"(1.43m) 58"(1.43m) Overall Width 29.25" (0.74m) 29.25" (0.74m) 28" (0.71m) Overall Height 45" (1.14m) 45" (1.14m) 45" (1.14m) In compliance with 2000/14/EEC standards 107dB(a) @3340 rpm 109dB(a) @ 3660 rpm 110dB(a) @ 3640 rpm Sound at Operator's ears 87dB(a) @ 3340 rpm 89dB(a) @ 3660 rpm 90dB(a) @ 3640 rpm .81 g (7.96 m/s²) Vibration at operator position .96 g (9.44 m/s²) 1.05 g (10.30 m/s²)



GENERAL SAFETY INSTRUCTIONS and SYMBOLS

The safety symbols shown below are used throughout this manual. You should become familiar with them before assembling, operating, or servicing this equipment.



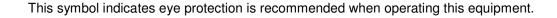
WARNING: This symbol indicates important information that will prevent injury to yourself or others.





This symbol indicates ear protection is recommended when operating this equipment.









This symbol indicates gloves should be worn when servicing this equipment.





This symbol indicates that this manual and the engine manufacturer's manual should be read carefully before assembling, operation, or servicing this equipment.



This symbol indicates important information that will prevent damage to your BILLY GOAT [®] FORCE Blower.



This symbol indicates the engine oil level should be checked before operating this equipment.

Read and make sure you thoroughly understand the following safety precautions before assembling, operating or servicing this equipment:





READ this manual and the engine manufacturer's manual carefully before assembling, operating, or servicing this equipment.



EAR PROTECTION is recommended when operating this equipment.



EYE PROTECTION is recommended when operating this equipment.



BREATHING PROTECTION is recommended when operating this equipment.



EXHAUST from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

DO NOT operate this equipment on any unimproved forested, brushy, or grass covered land unless a spark arrester is installed on the muffler as required by Section 4442 of the California Public Resources Code. The arrester must be maintained in good working order. Other states may have similar laws. Federal laws apply on federal lands.

DO NOT run engine in an enclosed area. Exhaust gases contain carbon monoxide, an odorless and possibly fatal poison.

BILLY GOAT

WARNING:

FORCE BLOWER Owner's Manual

DO NOT run this equipment indoors or in any poorly ventilated area. Refueling outdoors is

	recommended.
0	DO NOT refuel this equipment while the engine is running. Allow engine to cool for at least two minutes before refueling.
0	DO NOT store gasoline near an open flame.
0	DO NOT remove gas cap while engine is running.
0	DO NOT start or operate engine if strong odor of gasoline is present.
0	DO NOT start or operate engine if gasoline is spilled. Move equipment away from spill until gasoline has completely evaporated.
0	DO NOT smoke while filling the fuel tank.
0	DO NOT check for spark with spark plug or spark plug wire removed. Use an approved spark tester.
0	DO NOT operate engine without a muffler. Inspect muffler periodically and replace if necessary. If equipped with muffler deflector, inspect deflector periodically and replace if necessary.
0	DO NOT operate engine with grass, leaves or other combustible material near the muffler.
0	DO NOT touch muffler, cylinder, or cooling fins when hot. Contact with hot surfaces may cause severe burns.
0	DO NOT leave equipment unattended while in operation.
	DO NOT park equipment on a steep grade or slope.
0	DO NOT operate equipment with bystanders in or near the work area.
0000	DO NOT allow children to operate this equipment.
0	DO NOT operate equipment with guards removed.
_	DO NOT operate equipment near hot or burning debris or any toxic or explosive materials.
0	DO NOT operate equipment on slopes greater than specified in Specifications section of this manual.
	ALWAYS remove spark plug wire when servicing equipment to prevent accidental starting.

MARNING: Important

ALWAYS store fuel in approved safety containers.

Do not run this machine without director cone attached or with improper air director cone.

ALWAYS check fuel lines and fittings frequently for cracks or leaks. Replace if necessary.

DO NOT run this machine with a cracked or damaged impeller under any circumstances.

ALWAYS keep hands and feet away from moving or rotating parts.



SOUND



SOUND LEVEL 90 Db(a) at Operators Position

Sound tests were conducted in accordance with 2000/14/EC, as well as ISO 11094, and were performed on 5-17-2006 under the conditions listed below.

 \triangle Sound power level listed is the highest value for any model covered in this manual. Please refer to serial plate on the unit for the sound power level for your model.

General Conditions:

Temperature: Wind Speed: Wind Direction: Humidity:

Barometric Pressure:

Sunnv

79.7°F (26.5°C) 1.7 mph (2.8kph) South Southwest

31.2%

29.9Hg (101.25kpa)

VIBRATION DATA

VIBRATION LEVEL 1.05g (10.30m/s²)

Vibration levels at the operator's handles were measured in the vertical, lateral and longitudinal directions using calibrated vibration test equipment. Tests were performed on 5-17-2006 under the conditions listed below.

General Conditions:

Temperature: Wind Speed: Wind Direction:

Humidity:

Barometric Pressure:

Sunny

86.5°F (30.3°C) 2.5 mph (4.1kph)

South Southwest

56.4%

29.9Hg (101.25kpa)

INTENDED USE

This machine is designed for cleaning outdoor surfaces, where the debris can be effectively blown into a consolidated area for convenient pickup and removal.

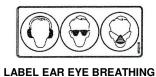
Do not operate if excessive vibration occurs. If excessive vibration occurs, shut engine off immediately and check for damaged or worn impeller, loose impeller bolt, loose impeller key, loose engine or lodged foreign objects. Note: See parts list for proper impeller bolt torque specifications. (See trouble shooting section on page 13).



INSTRUCTION LABELS

The labels shown below were installed on your BILLY GOAT [®] FORCE Blower. If any labels are damaged or missing, replace them before operating this equipment. Item numbers from the Illustrated Parts List and part numbers are provided for convenience in ordering replacement labels. The correct position for each label may be determined by referring to the Figure and Item numbers shown.





ITEM# 45 P/N890254





LABEL EXPLOSIVE FUEL ITEM # 43 P/N 400268



LABEL THROTTLE CONTROL ITEM # 42 P/N 810656

ENGINE LABELS

HONDA







SUBARU





PACKING CHECKLIST

These items should be included in your carton. If any of these parts are missing, contact your dealer. Your BILLY GOAT [®] FORCE Blower was shipped in one carton, completely assembled except for the Upper Handle Assembly and Front Diverter. Mounting hardware for the Upper Handle Assembly can be found in the parts bag.



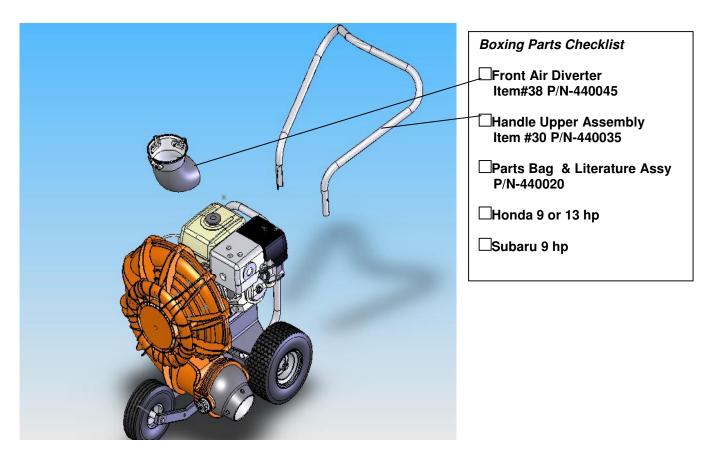
READ all safety instructions before assembling unit.

TAKE CAUTION when removing the unit from the box the Handle Assembly is attached to the unit by cables.



PARTS BAG & LITERATURE ASSY

Warranty card P/N- 400972, Owner's Manual P/N-440021, Declaration of Conformity P/N-440022, Handle Hardware-Items #10, #11, and #36





ASSEMBLY

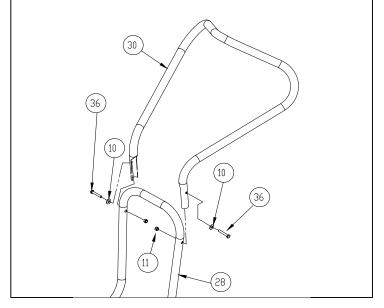
- 1. Follow the steps in figures A and B, then securely tighten all hardware shown.
- 2.Connect spark plug wire.

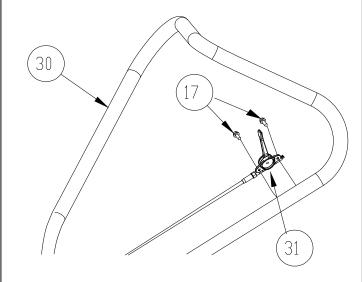
Figure A

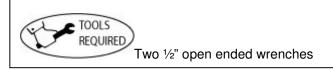
The hardware for attaching the upper handle to the lower is in the parts bag. Install upper handle (item 30), to preassembled lower handle (item 28) by sliding the upper over and down the outside of the lower handle. Using bolt (item #36), washers (item #10) & lock nut (item #11) to install upper handle to lower handle. Finish installing the other side of the upper handle assembly using screw and lock nut provided.

Figure B

The throttle control will be attached to the throttle arm on the engine and wrapped around the engine for shipping. Unwrap and secure throttle control (item #31) to upper handle with screws (item #39). Screws will already be mounted in handle, simply remove and use to mount the throttle control.











OPERATION

▲Like all mechanical tools, reasonable care must be used when operating machine.

Inspect machine work area and machine before operating. Make sure that all operators of this equipment are trained in general machine use and safety.

PUT OIL IN ENGINE BEFORE STARTING

STARTING

ENGINE: See engine manufacturer's instructions for type and amount of oil and gasoline used. Engine must be level when checking and filling oil and gasoline.

FUEL VALVE: Move fuel valve to "ON" position (when provided on engine).

STOP SWITCH: Located on the engine. "ON" position. **CHOKE:** Operated with choke lever on side of engine.

THROTTLE: Controlled by throttle lever on the handle. Move remote throttle control to fast position. Pull starting rope to start engine.

ENGINE SPEED: Under normal conditions, operate at minimum throttle to accomplish your current cleaning task.

IF YOUR UNIT FAILS TO START: See Troubleshooting on page 13.

HANDLING & TRANSPORTING:

Using two people to lift machine is recommended. Lift holding the handle and handle brace. Secure in place during transportation. See F900 and F1300 series specifications on page 3 for unit weight.

⚠ Do not use the front grill as an anchor point when securing the unit for transport.

△ Never lift the machine while the engine is running.

BLOWING OPERATION

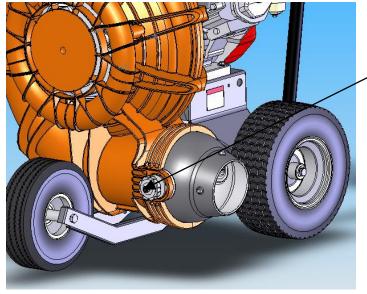
Your Billy Goat Force blower is equipped with an air director cone to allow the operator to direct the air stream up or down as required to assist in moving debris. This feature is extremely useful when debris has piled up to the point that it cannot be blown any farther. The air stream can be directed upward to blow the top of the debris pile over and allow the operator to continue moving more debris farther.



ADJUSTING AIR DIRECTOR

To adjust air direction, first loosen knob and then position air director cone to desired angle. When the cone is at a suitable position tighten knob to secure. DO NOT position director cone to where it will blow debris towards people, vehicles or other objects in vicinity. Flying debris may damage, harm, or cause injury to people or objects in air flow

range.

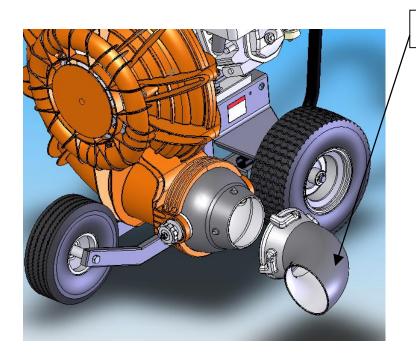


Adjustment knob

FRONT DIVERTER POSITIONING

The removable front diverter adapter can be slipped on to direct the air stream forward. First turn off engine, and then simply slide diverter onto cone following guide points and twist till locked in position. This option is extremely useful for cleaning out long cracks in pavement or for cleaning under bushes, building overhangs or along curbs.

△WARNING: Unit will be hard to handle and be pushed backward by the force of the air pushing against the unit. Keep hands on the unit at all times when using the front diverter. To reduce resistance when attaching the diverter, use a silicone lubricant spray on the locking grooves. This should allow the diverter to slide into position with more ease.



Front diverter



MAINTENANCE

PERIODIC MAINTENANCE

Periodic maintenance should be performed at the following intervals:

Maintenance Operation	Every Use	Daily or Every 5 Hours	Every 25 Hours	Every 50 Hours	Every 100-150 Hours
Inspect for worn or damaged parts.	•				
Check for excessive vibration		•			
Inspect Impeller for cracks or damage					•
Inspect for loose parts.		•			

IMPELLER REMOVAL

- 1. Wait for engine to cool and disconnect spark plug.
- 2. Remove housing front cover, by removing (11) bolts and nuts, items #13 & #14, around outside of front cover.
- 3. Remove impeller bolt (item #35), lock washer (item #7) and washer (item #34).
- 4. DO NOT pry on impeller. Pull on center hub area only of impeller. If impeller slides off freely, proceed to (step 6).
- 5. If the impeller does not loosen, obtain a 3/4-16x1" (25.4mm) or longer bolt. Thread bolt by hand into nut until bolt rests against the shaft. Tighten the bolt slowly, which will pull the impeller away from the shaft, remove impeller from shaft. Using a penetrating oil can help loosen a stuck impeller.
- 6. Reinstall new impeller in reverse order of removal.
- 7. Tighten impeller bolt. Torque impeller bolt (see parts list on page 15 for proper impeller bolt torque specifications).

TIRE AIR PRESSURE

Check at regular intervals and maintain.

Front Tires - 24 Psi (165 kPa).

Rear Tires - 20 Psi (137 kPa).

STORAGE

Never store engine indoors or in enclosed poorly ventilated areas with fuel in tank, where fuel fumes may reach an open flame, spark or pilot light, as on a furnace, water heater, clothes dryer or other gas appliance.

If engine is to be unused for 30 days or more, prepare as follows:

Remove all gasoline from carburetor and fuel tank to prevent gum deposits from forming on these parts and causing possible malfunction of engine. Drain fuel outdoors, into an approved container, away from open flame. Be sure engine is cool. Do not smoke. Run engine until fuel tank is empty and engine runs out of gasoline.



Fuel stabilizer (such as Sta-Bil TM) is an acceptable alternative for minimizing the formation of gum deposits during storage. Add stabilizer to gasoline in storage container or fuel tank. Follow stabilizer manufacturer's instructions to determine proper mix ratio. Run engine at least 10 minutes after adding stabilizer to allow it to reach carburetor.



TROUBLESHOOTING

Problem	Possible Cause	Solution
Abnormal vibration.	· Loose or out of balance impeller.	· Check impeller and replace if required.
	· Loose engine.	· Check engine.
Engine will not start.	 Engine not in full choke position. Out of gasoline or bad, old gasoline. Spark Plug wire disconnected. Gas valve off. Dirty air cleaner. 	 Check choke position. Check gasoline. Connect spark plug wire. Turn on gas valve. Clean or replace air cleaner. Contact a qualified service person.
Engine is locked, will not pull over.	· Engine problem.	· Contact an engine servicing dealer for engine problems.

When servicing engine refer to specific manufacturers engine owner's manual. Engine warranty is covered by the specific engine manufacturer. If your engine requires warranty or other repair work contact your local servicing engine dealer. When contacting a dealer for service it is a good idea to have your engine model number available for reference (See table page 3). If you cannot locate a servicing dealer in your area you can contact the manufacturers national service organization.

To reach:

American Honda: 800-426-7701 **Subaru America:** 800-277-6246

WARRANTY CLAIM PROCEDURE

Should a BILLY GOAT [®] machine fail due to a defect in material and/or workmanship, the owner should make a warranty claim as follows:

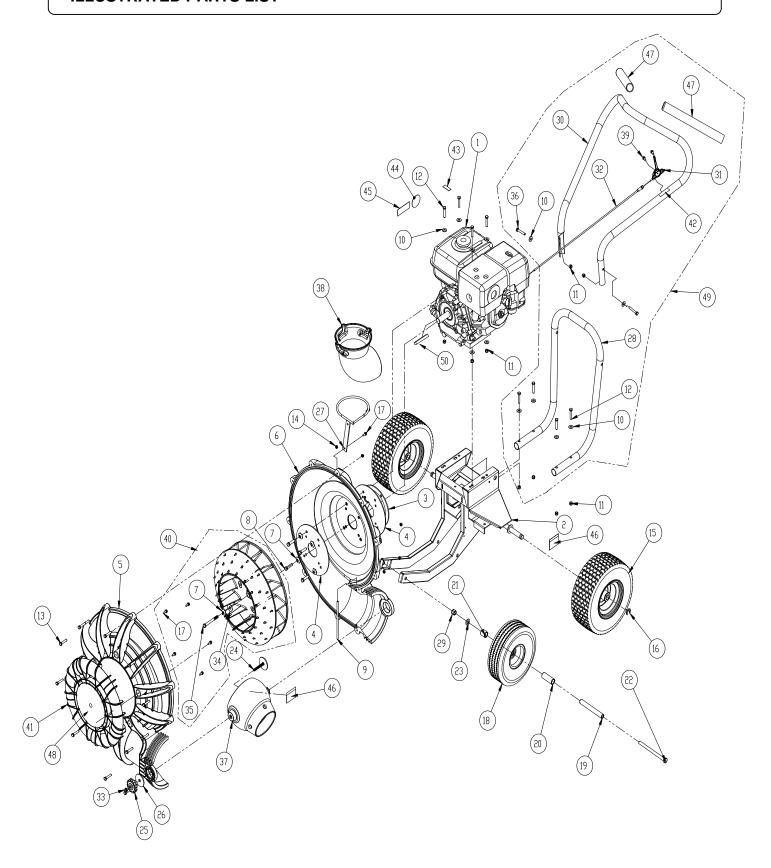
- The machine must be taken to the dealer from whom it was purchased or to an authorized Servicing BILLY GOAT Dealer.
- The owner must present the remaining half of the Warranty Registration Card, or, if this is not available, the invoice or receipt.
- The Warranty Claim will be completed by the authorized BILLY GOAT Dealer and submitted to their respective BILLY GOAT Distributor for their territory Attention: Service Manager. Any parts replaced under warranty must be tagged and retained for 90 days. The model number and serial number of the unit must be stated in the Warranty Claim.
- The distributor service manager will sign off on the claim and submit it to BILLY GOAT for consideration.
- The Technical Service Department at BILLY GOAT will study the claim and may request parts to be returned for examination. BILLY GOAT will notify their conclusions to the distributor service manager from whom the claim was received.
- The decision by the Technical Service Department at BILLY GOAT to approve or reject a Warranty Claim is final and binding.

For online product registration go to www.billygoat.com





ILLUSTRATED PARTS LIST





PARTS LIST

ITEM NO. DESCRIPTION 1 ENGINE 13 HP HONDA GX390 ENGINE 9 HP HONDA GX270 ENGINE 9 HP HORZ SUBARU OHO 2 BASE ENGINE WA 3 SPACER RING ENGINE 4 PLATE REINFORCE HOUSING 5 HOUSING FRONT MOLDED 6 HOUSING BACK MOLDED 7 WASHER LOCK 3/8 TWISTED TOO WASHER LOCK 7/16 TWISTED TOO WASHER LOCK 7/16 TWISTED TOO WASHER S/16 FLATWASHER Z/P 11 NYLON INSERT LOCKNUT 5/16-18 12 SCREW CAP 3/8-16X1 1/2 ZP 13 SCREW CAP 5/16-18 X 1.75 ZP 13 SCREW CAP 1/4-20 x 1 1/2 14 NUT FLANGE 1/4-20 15 WHEEL & TIRE 13" X 5" PNEUMAT 16 RING RETAINING 3/4 17 SCREW SELF-TAP 5/16 NC X 3/4 H 18 WHEEL ASSY 10 " PNEUMATIC 19 SPACER FRONT AXLE 20 SPACER LH WHEEL 21 SPACER RH WHEEL 22 SCREW CAP 1/2-13 x 7" 23 WASHER FLAT 1/2" SAE 24 WASHER FLAT 1/2" SAE 24 WASHER W/BOLT WA 25 KNOB 3/8-16 SOLID HUB 26 WASHER 2.25 OD x .515 ID x .134 Z 27 BRACKET HOLDER WA 28 HANDLE LOWER 29 NYLON INSERT LOCKNUT 1/2-13 30 HANDLE UPPER 31 CONTROL THROTTLE 32 CABLE THROTTLE CONTROL 33 NUT LOCK 3/8-16 LT WT THIN ZP 34 WASHER 1.5 O.D.X 0.45 I.D. X 0.25 35 SCREW CAP 7/16-20 X 3.5 GR.8 601 SCREW CAP 5/16"-18 X 2" ZP	440018	1 1 1 1 2 2 1 1 1 1 1 2 2 2 7 1 1 1 1 1 1	PART NUMBER - 430287 - 440011 440009 440010 440023 440024 400502 850132 8041052 440057 8171003 8160002 8041031 8041008 900455 440054 850230 8122082 400295 440050 440051 8041235	QTY. - 1 - 1 - 1 1 2 1 1 4 1 4 1 1 6 10 8 11 11 2 2 7 1 1 1 1 1 1		QTY. -
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11 NYLON INSERT LOCKNUT 5/16-18 12 SCREWCAP 5/16-18 X 1.75 ZP 13 SCREWCAP 1/4-20 x 1 1/2 14 NUT FLANGE 1/4-20 15 WHEEL & TIRE 13" X 5" PNEUMAT 16 RING RETAINING 3/4 17 SCREW SELF-TAP 5/16 NC X 3/4 H 18 WHEEL ASSY 10 " PNEUMATIC 19 SPACER FRONT AXLE 20 SPACER LH WHEEL 21 SPACER RH WHEEL 22 SCREWCAP 1/2-13 x 7" 23 WASHER FLAT 1/2" SAE 24 WASHER W/BOLT WA 25 KNOB 3/8-16 SOLID HUB 26 WASHER 2.25 OD x .515 ID x .134 Z 27 BRACKET HOLDER WA 28 HANDLE LOWER 29 NYLON INSERT LOCKNUT 1/2-13 30 HANDLE UPPER 31 CONTROL THROTTLE 32 CABLE THROTTLE CONTROL 33 NUT LOCK 3/8-16 LT WT THIN ZP 34 WASHER 1.5 O.D.X 0.45 I.D. X 0.25 35 SCREWCAP 7/16-20 X 3.5 GR.8 606 SCREWCAP 7/16-20 X 3.5 GR.8 606	8160002 8041031 8041008 900455 IC 440054 850230 EX 8122082 400295 440050 440052 440051 8041235 8172011	10 8 11 11 2 2 7 1 1 1 1	8160002 8041031 8041008 900455 440054 850230 8122082 400295 440050 440052 440051	10 8 11 11 2 2 7 1 1	8160002 8041031 8041008 900455 440054 850230 8122082 400295 440050 440052	10 8 11 11 2 2 7
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14 NUT FLANGE 1/4-20 15 WHEEL & TIRE 13" X 5" PNEUMAT 16 RING RETAINING 3/4 17 SCREW SELF-TAP 5/16 NC X 3/4 H 18 WHEEL ASSY 10 " PNEUMATIC 19 SPACER FRONT AXLE 20 SPACER LH WHEEL 21 SPACER RH WHEEL 22 SCREWCAP 1/2-13 x 7" 23 WASHER FLAT 1/2" SAE 24 WASHER W/BOLT WA 25 KNOB 3/8-16 SOLID HUB 26 WASHER 2.25 OD x .515 ID x .134 2 27 BRACKET HOLDER WA 28 HANDLE LOWER 29 NYLON INSERT LOCKNUT 1/2-13 30 HANDLE UPPER 31 CONTROL THROTTLE 32 CABLE THROTTLE CONTROL 33 NUT LOCK 3/8-16 LT WT THIN ZP 34 WASHER 1.5 O.D.X 0.45 I.D. X 0.25 35 SCREWCAP 3/8-24 X 3.5 GR. 8 50ff SCREWCAP 7/16-20 X 3.5 GR. 8 60ff SCREWCAP 5/16"-18 X 2" ZP	900455 IC 440054 850230 IEX 8122082 400295 440050 440052 440051 8041235 8172011	11 2 2 7 1 1 1 1	900455 440054 850230 8122082 400295 440050 440052 440051	11 2 2 7 1 1	900455 440054 850230 8122082 400295 440050 440052	11 2 2 7 1
15 WHEEL & TIRE 13" X 5" PNEUMAT 16 RING RETAINING 3/4 17 SCREW SELF-TAP 5/16 NC X 3/4 H 18 WHEEL ASSY 10 " PNEUMATIC 19 SPACER FRONT AXLE 20 SPACER LH WHEEL 21 SPACER RH WHEEL 22 SCREWCAP 1/2-13 x 7" 23 WASHER FLAT 1/2" SAE 24 WASHER W/BOLT WA 25 KNOB 3/8-16 SOLID HUB 26 WASHER 2.25 OD x .515 ID x .134 2 27 BRACKET HOLDER WA 28 HANDLE LOWER 29 NYLON INSERT LOCKNUT 1/2-13 30 HANDLE UPPER 31 CONTROL THROTTLE 32 CABLE THROTTLE CONTROL 33 NUT LOCK 3/8-16 LT WT THIN ZP 34 WASHER 1.5 O.D.X 0.45 I.D. X 0.25 35 SCREWCAP 3/8-24 X 3.5 GR. 8 50ff SCREWCAP 7/16-20 X 3.5 GR. 8 60ff SCREWCAP 5/16"-18 X 2" ZP	EX 8122082 400295 440050 440051 8041235 8172011	2 2 7 1 1 1 1	440054 850230 8122082 400295 440050 440052 440051	2 2 7 1 1	440054 850230 8122082 400295 440050 440052	2 2 7 1
16 RING RETAINING 3/4 17 SCREW SELF-TAP 5/16 NC X 3/4 H 18 WHEEL ASSY 10 " PNEUMATIC 19 SPACER FRONT AXLE 20 SPACER LH WHEEL 21 SPACER RH WHEEL 22 SCREWCAP 1/2-13 x 7" 23 WASHER FLAT 1/2" SAE 24 WASHER W/BOLT WA 25 KNOB 3/8-16 SOLID HUB 26 WASHER 2.25 OD x .515 ID x .134 2 27 BRACKET HOLDER WA 28 HANDLE LOWER 29 NYLON INSERT LOCKNUT 1/2-13 30 HANDLE UPPER 31 CONTROL THROTTLE 32 CABLE THROTTLE CONTROL 33 NUT LOCK 3/8-16 LT WT THIN ZP 34 WASHER 1.5 O.D.X 0.45 I.D. X 0.25 35 SCREWCAP 3/8-24 X 3.5 GR. 8 50ff SCREWCAP 7/16-20 X 3.5 GR. 8 60ff	850230 EX 8122082 400295 440050 440052 440051 8041235 8172011	2 7 1 1 1 1	850230 8122082 400295 440050 440052 440051	2 7 1 1	850230 8122082 400295 440050 440052	2 7 1
17 SCREW SELF-TAP 5/16 NC X 3/4 H 18 WHEEL ASSY 10 " PNEUMATIC 19 SPACER FRONT AXLE 20 SPACER LH WHEEL 21 SPACER RH WHEEL 22 SCREWCAP 1/2-13 x 7" 23 WASHER FLAT 1/2" SAE 24 WASHER W/BOLT WA 25 KNOB 3/8-16 SOLID HUB 26 WASHER 2.25 OD x .515 ID x .134 2 27 BRACKET HOLDER WA 28 HANDLE LOWER 29 NYLON INSERT LOCKNUT 1/2-13 30 HANDLE UPPER 31 CONTROL THROTTLE 32 CABLE THROTTLE CONTROL 33 NUT LOCK 3/8-16 LT WT THIN ZP 34 WASHER 1.5 O.D.X 0.45 I.D. X 0.25 35 SCREWCAP 3/8-24 X 3.5 GR. 8 50ff SCREWCAP 7/16-20 X 3.5 GR. 8 60ff SCREWCAP 5/16"-18 X 2" ZP	EX 8122082 400295 440050 440052 440051 8041235 8172011	7 1 1 1 1	8122082 400295 440050 440052 440051	7 1 1	8122082 400295 440050 440052	7
18 WHEEL ASSY 10 " PNEUMATIC 19 SPACER FRONT AXLE 20 SPACER LH WHEEL 21 SPACER RH WHEEL 22 SCREWCAP 1/2-13 x 7" 23 WASHER FLAT 1/2" SAE 24 WASHER W/BOLT WA 25 KNOB 3/8-16 SOLID HUB 26 WASHER 2.25 OD x .515 ID x .134 2 27 BRACKET HOLDER WA 28 HANDLE LOWER 29 NYLON INSERT LOCKNUT 1/2-13 30 HANDLE UPPER 31 CONTROL THROTTLE 32 CABLE THROTTLE CONTROL 33 NUT LOCK 3/8-16 LT WT THIN ZP 34 WASHER 1.5 O.D.X 0.45 I.D. X 0.25 35 SCREWCAP 3/8-24 X 3.5 GR. 8 50ff SCREWCAP 7/16-20 X 3.5 GR. 8 60ff	400295 440050 440052 440051 8041235 8172011	1 1 1 1	400295 440050 440052 440051	1 1	400295 440050 440052	1
19 SPACER FRONT AXLE 20 SPACER LH WHEEL 21 SPACER RH WHEEL 22 SCREWCAP 1/2-13 x 7" 23 WASHER FLAT 1/2" SAE 24 WASHER W/BOLT WA 25 KNOB 3/8-16 SOLID HUB 26 WASHER 2.25 OD x .515 ID x .134 Z 27 BRACKET HOLDER WA 28 HANDLE LOWER 29 NYLON INSERT LOCKNUT 1/2-13 30 HANDLE UPPER 31 CONTROL THROTTLE 32 CABLE THROTTLE CONTROL 33 NUT LOCK 3/8-16 LT WT THIN ZP 34 WASHER 1.5 O.D.X 0.45 I.D. X 0.25 35 SCREWCAP 3/8-24 X 3.5 GR. 8 50ff SCREWCAP 7/16-20 X 3.5 GR. 8 60ff 36 SCREWCAP 5/16"-18 X 2" ZP	440050 440052 440051 8041235 8172011	1 1 1	440050 440052 440051	1	440050 440052	
20 SPACER LH WHEEL 21 SPACER RH WHEEL 22 SCREWCAP 1/2-13 x 7" 23 WASHER FLAT 1/2" SAE 24 WASHER W/BOLT WA 25 KNOB 3/8-16 SOLID HUB 26 WASHER 2.25 OD x .515 ID x .134 2 27 BRACKET HOLDER WA 28 HANDLE LOWER 29 NYLON INSERT LOCKNUT 1/2-13 30 HANDLE UPPER 31 CONTROL THROTTLE 32 CABLE THROTTLE CONTROL 33 NUT LOCK 3/8-16 LT WT THIN ZP 34 WASHER 1.5 O.D.X 0.45 I.D. X 0.25 35 SCREWCAP 3/8-24 X 3.5 GR. 8 50ff SCREWCAP 7/16-20 X 3.5 GR. 8 60ff 36 SCREWCAP 5/16"-18 X 2" ZP	440052 440051 8041235 8172011	1 1 1	440052 440051	1	440052	
21 SPACER RH WHEEL 22 SCREWCAP 1/2-13 x 7" 23 WASHER FLAT 1/2" SAE 24 WASHER W/BOLT WA 25 KNOB 3/8-16 SOLID HUB 26 WASHER 2.25 OD x .515 ID x .134 Z 27 BRACKET HOLDER WA 28 HANDLE LOWER 29 NYLON INSERT LOCKNUT 1/2-13 30 HANDLE UPPER 31 CONTROL THROTTLE 32 CABLE THROTTLE CONTROL 33 NUT LOCK 3/8-16 LT WT THIN ZP 34 WASHER 1.5 O.D.X 0.45 I.D. X 0.25 35 SCREWCAP 3/8-24 X 3.5 GR. 8 50ff SCREWCAP 7/16-20 X 3.5 GR. 8 60ff 36 SCREWCAP 5/16"-18 X 2" ZP	440051 8041235 8172011	1	440051			1
22 SCREWCAP 1/2-13 x 7" 23 WASHER FLAT 1/2" SAE 24 WASHER W/BOLT WA 25 KNOB 3/8-16 SOLID HUB 26 WASHER 2.25 OD x .515 ID x .134 2 27 BRACKET HOLDER WA 28 HANDLE LOWER 29 NYLON INSERT LOCKNUT 1/2-13 30 HANDLE UPPER 31 CONTROL THROTTLE 32 CABLE THROTTLE CONTROL 33 NUT LOCK 3/8-16 LT WT THIN ZP 34 WASHER 1.5 O.D.X 0.45 I.D. X 0.25 35 SCREWCAP 3/8-24 X 3.5 GR. 8 50ff SCREWCAP 7/16-20 X 3.5 GR. 8 60ff 36 SCREWCAP 5/16"-18 X 2" ZP	8041235 8172011	1		l I	110051	
23 WASHER FLAT 1/2" SAE 24 WASHER W/BOLT WA 25 KNOB 3/8-16 SOLID HUB 26 WASHER 2.25 OD x .515 ID x .134 2 27 BRACKET HOLDER WA 28 HANDLE LOWER 29 NYLON INSERT LOCKNUT 1/2-13 30 HANDLE UPPER 31 CONTROL THROTTLE 32 CABLE THROTTLE CONTROL 33 NUT LOCK 3/8-16 LT WT THIN ZP 34 WASHER 1.5 O.D.X 0.45 I.D. X 0.25 35 SCREWCAP 3/8-24 X 3.5 GR. 8 50ff SCREWCAP 7/16-20 X 3.5 GR. 8 60ff 36 SCREWCAP 5/16"-18 X 2" ZP	8172011			4	440051	1
24 WASHER W/BOLT WA 25 KNOB 3/8-16 SOLID HUB 26 WASHER 2.25 OD x .515 ID x .134 2 27 BRACKET HOLDER WA 28 HANDLE LOWER 29 NYLON INSERT LOCKNUT 1/2-13 30 HANDLE UPPER 31 CONTROL THROTTLE 32 CABLE THROTTLE CONTROL 33 NUT LOCK 3/8-16 LT WT THIN ZP 34 WASHER 1.5 O.D.X 0.45 I.D. X 0.25 35 SCREWCAP 3/8-24 X 3.5 GR. 8 50ff SCREWCAP 7/16-20 X 3.5 GR. 8 60ff 36 SCREWCAP 5/16"-18 X 2" ZP		1 1		1	8041235	1
25 KNOB 3/8-16 SOLID HUB 26 WASHER 2.25 OD x .515 ID x .134 2 27 BRACKET HOLDER WA 28 HANDLE LOWER 29 NYLON INSERT LOCKNUT 1/2-13 30 HANDLE UPPER 31 CONTROL THROTTLE 32 CABLE THROTTLE CONTROL 33 NUT LOCK 3/8-16 LT WT THIN ZP 34 WASHER 1.5 O.D.X 0.45 I.D. X 0.25 35 SCREWCAP 3/8-24 X 3.5 GR. 8 50ff SCREWCAP 7/16-20 X 3.5 GR. 8 60ff 36 SCREWCAP 5/16"-18 X 2" ZP	1 1 1 0 0 7 5		8172011	1	8172011	1
26 WASHER 2.25 OD x .515 ID x .134 2 27 BRACKET HOLDER WA 28 HANDLE LOWER 29 NYLON INSERT LOCKNUT 1/2-13 30 HANDLE UPPER 31 CONTROL THROTTLE 32 CABLE THROTTLE CONTROL 33 NUT LOCK 3/8-16 LT WT THIN ZP 34 WASHER 1.5 O.D.X 0.45 I.D. X 0.25 35 SCREWCAP 3/8-24 X 3.5 GR. 8 50ff SCREWCAP 7/16-20 X 3.5 GR. 8 60ff 36 SCREWCAP 5/16"-18 X 2" ZP	440075	1	440075	1	440075	1
27 BRACKET HOLDER WA 28 HANDLE LOWER 29 NYLON INSERT LOCKNUT 1/2-13 30 HANDLE UPPER 31 CONTROL THROTTLE 32 CABLE THROTTLE CONTROL 33 NUT LOCK 3/8-16 LT WT THIN ZP 34 WASHER 1.5 O.D.X 0.45 I.D. X 0.25 35 SCREWCAP 3/8-24 X 3.5 GR. 8 50ff SCREWCAP 7/16-20 X 3.5 GR. 8 60ff 36 SCREWCAP 5/16"-18 X 2" ZP	811230	1	811230	1	811230	1
28 HANDLE LOWER 29 NYLON INSERT LOCKNUT 1/2-13 30 HANDLE UPPER 31 CONTROL THROTTLE 32 CABLE THROTTLE CONTROL 33 NUT LOCK 3/8-16 LT WT THIN ZP 34 WASHER 1.5 O.D.X 0.45 I.D. X 0.25 35 SCREWCAP 3/8-24 X 3.5 GR. 8 50ff SCREWCAP 7/16-20 X 3.5 GR. 8 60ff 36 SCREWCAP 5/16"-18 X 2" ZP			610308-P	1	610308-P	1
29 NYLON INSERT LOCKNUT 1/2-13 30 HANDLE UPPER 31 CONTROL THROTTLE 32 CABLE THROTTLE CONTROL 33 NUT LOCK 3/8-16 LT WT THIN ZP 34 WASHER 1.5 O.D.X 0.45 I.D. X 0.25 35 SCREWCAP 3/8-24 X 3.5 GR. 8 50ff SCREWCAP 7/16-20 X 3.5 GR. 8 60ff 36 SCREWCAP 5/16"-18 X 2" ZP	440074	1	440074	1	440074	1
30 HANDLE UPPER 31 CONTROL THROTTLE 32 CABLE THROTTLE CONTROL 33 NUT LOCK 3/8-16 LT WT THIN ZP 34 WASHER 1.5 O.D.X 0.45 I.D. X 0.25 35 SCREWCAP 3/8-24 X 3.5 GR. 8 50ff SCREWCAP 7/16-20 X 3.5 GR.8 60f 36 SCREWCAP 5/16"-18 X 2" ZP	440034	1	440034	1	440034	1
31 CONTROL THROTTLE 32 CABLE THROTTLE CONTROL 33 NUT LOCK 3/8-16 LT WT THIN ZP 34 WASHER 1.5 O.D.X 0.45 I.D. X 0.25 35 SCREWCAP 3/8-24 X 3.5 GR. 8 50ff SCREWCAP 7/16-20 X 3.5 GR.8 60f 36 SCREWCAP 5/16"-18 X 2" ZP	8160005		8160005	1	8160005	1
32 CABLE THROTTLE CONTROL 33 NUT LOCK 3/8-16 LT WT THIN ZP 34 WASHER 1.5 O.D.X 0.45 I.D. X 0.25 35 SCREWCAP 3/8-24 X 3.5 GR. 8 50ff SCREWCAP 7/16-20 X 3.5 GR.8 60f 36 SCREWCAP 5/16"-18 X 2" ZP	440035	1	440035	1	440035	1
33 NUT LOCK 3/8-16 LT WT THIN ZP 34 WASHER 1.5 O.D.X 0.45 I.D. X 0.25 35 SCREWCAP 3/8-24 X 3.5 GR. 8 50ff SCREWCAP 7/16-20 X 3.5 GR.8 60f 36 SCREWCAP 5/16"-18 X 2" ZP	440013	1	440013	1	440013	1
34 WASHER 1.5 O.D.X 0.45 I.D. X 0.25 35 SCREWCAP 3/8-24 X 3.5 GR. 8 50ft SCREWCAP 7/16-20 X 3.5 GR.8 60t 36 SCREWCAP 5/16"-18 X 2" ZP	440014	1	440014	1	440014	1
35 SCREWCAP 3/8-24 X 3.5 GR. 8 50ft SCREWCAP 7/16-20 X 3.5 GR.8 60t 36 SCREWCAP 5/16"-18 X 2" ZP	8161042		8161042	1	8161042	1
SCREWCAP 7/16-20 X 3.5 GR.8 609 36 SCREWCAP 5/16"-18 X 2" ZP	440153	2	440153	2	440153	2
36 SCREWCAP 5/16"-18 X 2" ZP	t-lbs. 440151	1	-	-	=	-
	it-lbs -	-	440150	1	440150	1
OF DIDECTOR COVERS	8041032	2	8041032	2	8041032	2
37 DIRECTOR CONE 5"	440044	1	-	-	-	-
DIRECTOR CONE 4"	-	-	440046	1	440046	1
38 DIVERTOR FRONT	440045	1	440045	1	440045	1
39 SCREW SM #10-24X1/2" DRILL PO	INT 8122064	2	8122064	2	8122064	2
40 IMPELLER ASSEMBLY 17"	440110	1	440110	1	440110	1
41 GRILL FRONT BLOWER	440112	1	440111	1	440111	1
42 LABEL THROTTLE CONTROL		1	810656	1	810656	1
43 LABEL HOT ENGINE	dcan1 a	1	400268	1	400268	1
44 LABEL READ	810656 400268	1	890301	1	890301	1
45 LABEL EAR EYE BREATHING	400268	1	890254	1	890254	1
46 LABEL DANGER FLYING DEBRIS	400268 890301		810736	1	810736	1
47 GRIP 1-1/4" ID x 13"	400268 890301 890254	1	010/00	2	440012	2
48 LABEL FORCE	400268 890301 890254 810736	1			440012	_
	400268 890301 890254 810736 440012	2	440012	_	44(11111)	
49 HANDLE ASSY UPPER 50 Key 1/4" SQ x 2.25	400268 890301 890254 810736			1	440104	1



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