



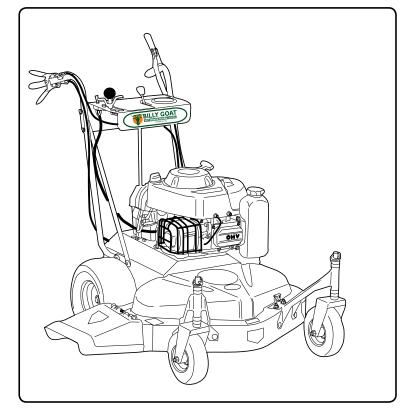
Mulching Kit P/N 520144

1

Reduces lawn clippings to fine nutrient-rich particles that filter down to the soil.

Grass Catcher Kit P/N 520142 Easily convert your mower to bag grass and leaves.

Transaxle Guard Kit P/N 520155 To protect the transaxle from accidental contact from concrete curbs or other hazards.



Thank You for Selecting

The Powerful Self-Propelled Billy Goat Mower

Operator Owner's Manual

FM3300IN , FM3300INE, FM3300INB , FM3300INEB

Specifications									
	FM3300IN	FM3300INE	FM3300INB	FM3300INEB					
Engine: HP	13.0 HP (9.7 kW)	13.0 HP (9.7 kW)	13.0 HP (9.7 kW)	13.0 HP (9.7 kW)					
Engine:Type	B&S INTEK OHV	B&S INTEK OHV with electric start	B&S INTEK OHV	B&S INTEK OHV with electric start					
Engine: Fuel cap.	3.0 qt. (2.8 L)	3.0 qt. (2.8 L)	3.0 qt. (2.8 L)	3.0 qt. (2.8 L)					
Engine: Oil Cap.	1.5 qt. (1.4 L)	1.5 qt. (1.4 L)	1.5 qt. (1.4 L)	1.5 qt. (1.4 L)					
Weight: Unit	264 # (120 Kg)	274 # (124 Kg)	267 # (121 Kg)	277 # (126 Kg)					
Weight: Shipping	413 # (187 Kq)	423 # (192 Kq)	417 # (189 Kq)	427 # (194 Kq)					
	UNIT	OVERALL WID	IGTH - 57"(1.45 m) TH - 43" (1.09 m) GHT - 47" (1.19 m)						

Page 1 of 20

5

IN THE INTEREST OF SAFETY

BEFORE STARTING ENGINE, READ AND UNDERSTAND THE "ENTIRE OPERATOR'S MANUAL & ENGINE MANUAL."

THIS SYMBOL MEANS WARNING OR CAUTION. DEATH, PERSONAL INJURY AND/OR PROPERTY DAMAGE MAY OCCUR UNLESS INSTRUCTIONS ARE FOLLOWED CAREFULLY.

WARNING: The Engine Exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

WARNING: DO NOT

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

2. DO NOT place hands or feet near moving or rotating parts.

3. DO NOT store, spill or use gasoline near an open flame, or devices such as a stove, furnace, or water heater which use a pilot light or devices which can create a spark.

4. DO NOT refuel indoors where area is not well ventilated. Outdoor refueling is recommended.

5. DO NOT fill fuel tank while engine is running. Allow engine to cool for 2 minutes before refueling. Store fuel in approved safety containers.

6. DO NOT remove fuel tank cap while engine is running.

7. DO NOT operate engine when smell of gasoline is present or other explosive conditions exist.

8. DO NOT operate engine if gasoline is spilled. Move machine away from the spill and avoid creating any ignition until the gasoline has evaporated.

9. DO NOT transport unit with fuel in tank.

10. DO NOT smoke when filling fuel tank.

11. DO NOT choke carburetor to stop engine. Whenever possible, gradually reduce engine speed before stopping.

12. DO NOT run engine at excessive speeds. This may result in injury & /or damage to unit.

13. DO NOT tamper with governor springs, governor links or other parts which may change the governed engine speed.

14. DO NOT tamper with the engine speed selected by the engine manufacturer.

15. DO NOT check for spark with spark plug or spark plug wire removed. Use an approved tester.

16. DO NOT crank engine with spark plug removed. If engine is flooded, place throttle in "FAST" position and crank until engine starts.

17. DO NOT strike flywheel with a hard object or metal tool as this may cause flywheel to shatter in operation. Use proper tools to service engine.

18. DO NOT operate engine without a muffler. Inspect periodically and replace, if necessary. If engine is equipped with muffler deflector, inspect periodically and replace, if necessary, with correct deflector.

19. DO NOT operate engine with an accumulation of grass, leaves, dirt or other combustible material in the muffler area.

20. DO NOT use this engine on any forest covered, brush covered, or grass covered unimproved land unless a spark arrester is installed on the muffler. The arrester must be maintained in effective working order by the operator. In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands.

21. DO NOT touch hot muffler, cylinder, or fins

	SOUND	7									
6 TABLE OF CONTENTS	Sound tests conducted were in accordance with 2000/14/EEC and were performed on 9/18/03 under the condition listed.										
SAFETY INSTRUCTIONS 2 GENERAL SAFETY 3 ASSEMBLY 4	NOTE: Sound power level listed is the highest value for any model in this manual Please refer to serial plate on the unit for the sound level for your model.										
LIT. BAG & CONTROLS 5 LABELS 5 - 6	Sound level of 95 dBA at operator position GENERAL CONDITION:Sunny										
OPERATION 6 - 9 MAINTENANCE 10 - 14	TEMPERATURE:										
PARTS DRAWING & LIST — 15 - 18 ACCESSORIES — 19	WIND SPEED: <u>8.1 MPH (13.0 KPH)</u>										
TROUBLESHOOTING — 20 WARRANTY PROCEDURE — 20	(FM3300IN MODEL) HUMIDITY: 63%										
WARRANTT FROCEDURE - 20	BAROMETRIC PRESSURE: 29.9" Hg (759mm Hg)										

because contact may cause burns.

22. DO NOT run engine without air cleaner or air cleaner cover.

23. DO NOT operate during excessive vibration!

24. DO NOT leave machine unattended while in operation.

25. DO NOT park machine on a steep grade or slope.

WARNING: DO

1. ALWAYS DO remove the wire from the spark plug when servicing the engine or equipment TO PREVENT ACCIDENTAL STARTING.

2. DO keep cylinder fins and governor parts free of grass and other debris which can affect engine speed.

3. DO pull starter cord slowly until resistance is felt. Then pull cord rapidly to avoid kickback and prevent hand or arm injury.

4. DO examine muffler periodically to be sure it is functioning effectively. A worn or leaking muffler should be repaired or replaced as necessary.

5. DO use fresh gasoline. Stale fuel can gum carburetor and cause leakage.

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

7. Follow engine manufacturer operating and maintenance instructions.

8. Inspect machine and work area before starting unit.

VIBRATION

8

VIBRATION LEVEL 1.8 g Vibration levels at the operators handles were mea- sured in the vertical, lateral, and longitudinal directions using calibrated vibration test equipment. Tests were performed on 10/1/03 under the conditions listed:										
GENERAL CONDITION:	Sunny									
TEMPERATURE:	46 °F (7.8 °C)									
WIND SPEED:	7.0 MPH (11.3 kmh)									
WIND DIRECTION:	South West									
HUMIDITY:	66%									
BAROMETRIC PRESSURE:	30.4" Hg (772mm Hg)									

Part No. 520166

Page 2 of 20

GENERAL SAFETY

For your safety and the safety of others, these directions should be followed:

Do not operate this machine without first reading owner's manual and engine manufacturer's manual.

Use of Ear Protection is recommended while operating this machine.

Use of Eye and Breathing protection is recommended when using this machine.

This cutting machine is capable of amputating hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury or death.

I. General Operation

1. Read, understand, and follow all instructions on the machine and in the manual(s). Be thoroughly familiar with the controls and the proper use of the mower before starting.

2. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.

3. Only allow responsible individuals, who are familiar with the instructions, to operate the mower.

4. Clear the area of objects such as rocks, toys, wire, bones, sticks etc., which could be picked up and thrown by the blade(s).

5. Be sure the area is clear of other people before mowing. Stop mower if anyone enters the area.

6. Do not operate the mower when barefoot or wearing open sandals. Always wear substantial foot wear.

7. Do not pull mower backwards unless absolutely necessary. Look down and behind before and while moving backwards.

8. Do not operate the mower without proper guards, plates, grass catcher or other safety protective devices in place.

9. See manufacturer's instructions for proper operation and installation of accessories. Only use accessories approved by the manufacturer.

10. Stop the blade(s) when crossing gravel drives, walks, or roads.

11. Stop the engine (motor) whenever you leave the equipment, before cleaning the mower or unclogging the chute.

12. Shut the engine (motor) off and wait until the blade comes to complete stop before removing grass catcher.

13. Mow only in daylight or good artificial light.

14. Do not operate the mower while under the influence of alcohol or drugs.

15. Never operate mower in wet grass. Always be sure of your footing; keep a firm hold on the handle and walk; never run.

16. Disengage the self-propelled mechanism or drive clutch on mowers so equipped before starting the engine (motor).

17. If the equipment should start to vibrate abnormally, stop the engine (motor) and check immediately for the cause. Vibration is generally a warning of trouble.

18. Always wear safety goggles or safety glasses with side shields when operating mower.

II. Slope Operation

Slopes are a major factor related to slip and fall accidents which can result in severe injury. All slopes require extra caution. If you feel uneasy on a slope, do not mow it.

DO:

Mow across the face of slopes; never up and down. Exercise extreme caution when changing direction on slopes.

Remove objects such as rocks, tree limbs, etc. Watch for holes, ruts, or bumps. Tall grass can hide obstacles.

DO NOT:

Do not mow near drop-offs, ditches, or embankments. The operator could lose footing or balance.

Do not mow excessively steep slopes.

Do not mow on wet grass. Reduced footing could cause slipping.

III. Children

Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the mower and the mowing activity. Never assume that children will remain where you last saw them.

1. Keep children out of the mowing area and under the watchful care of a responsible adult.

2. Be alert and turn mower off if children enter the area.

3. Before and while moving backwards, look behind and down for small children.

4. Never allow children to operate the mower.

5. Use extra care when approaching blind comers, shrubs, trees, or other objects that may obscure vision.

IV. Service

1. Use extra care in handling gasoline and other fuels. They are flammable and vapors are explosive.

a)Use only an approved container.

b)Never remove gas cap or add fuel with the engine running. Allow engine to cool before refueling. Do not smoke.

c)Never refuel the machine indoors.

d)Never store the machine or fuel container inside where there is an open flame, such as a water heater.

2. Never run an engine inside a closed area.

3.Never make adjustments or repairs with the engine (motor) running. Disconnect the spark plug wire, and keep the wire away from the plug to prevent accidental starting.

4. Keep all nuts and bolts, especially blade attachment bolts, tight and keep equipment in good condition.

5. Never tamper with safety devices. Check their proper operation regularly.

6. Keep mower free of grass, leaves, or other debris build-up. Clean up oil or fuel spillage. Allow mower to cool before storing.

7. Stop and inspect the equipment if you strike an Object. Repair, if necessary, before restarting.

8. Never attempt to make wheel height adjustments while the engine (motor) is running.

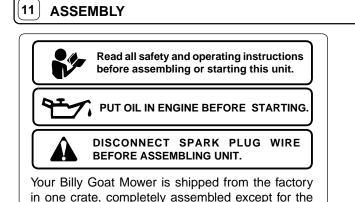
9. Always disconnect electric mowers (live operated) before cleaning, repairing, or adjusting.

10. Grass catcher components are subject to wear, damage, and deterioration, which could expose moving parts or allow objects to be thrown. Frequently check components and replace with manufacturer's recommended parts, when necessary."

11. Mower blades are sharp and can cut. Wrap the blade(s) or wear gloves, and use extra caution when servicing them.

12. Do not change the engine governor setting or overspeed the engine.





NOTE: All item numbers called out in the assembly, operation, and maintenance sections of this manual can

handles and console assembly.

be found on Parts List (pages 15-18).



Figure 11-1

1.Cut and remove the nylon retaining straps (see figure 11-1). 2.Pry up and remove the shipping crate's top panel. 3.Remove the shipping crate's end panel at rear of mower 4. With the console positioned as shown in Figure 11-3, insert the shift linkage rod (Item 31) into the shift linkage connector (Item 54). 5. To assemble the shift rod (item 31) to the shift linkage (item 54), use the roll pin in the parts/literature bag. If you'll notice on the shift linkage, the hole is larger on one side than the other.

It will be easier to start the roll pin from the larger side, forcing it through the shift rod and the hole on the other side of the shift linkage, using a hammer or large adjustable pliers.

6.Remove and retain for reuse console mounting bolts, washers and nuts (Items 135, 150 & 151) from left and right handles.

7.Remove and retain for reuse handle mounting bolts and hex lock washers (Items 102 & 6) located just above the rear wheels on each side of mower (see figure 11-4).

NOTE: Fasteners should only be tightened snug tight until handle and console assembly is complete.

SHIFT

SHIFT

LINKAGE

ROLL

PIN

ROD



Figure 11-3

8. Insert one of the handle mounting bolts (Item 102) with Hex. lock washer (Item 6) through the rear handle mounting hole of the right side handle, and screw it into the rear handle mounting hole on the right side of engine

base chassis (Item 61). Repeat this procedure for the left side using the . left handle

9.On each side of the mower, insert one of the handle mounting bolts (Item 102) with Hex. lock washer (Item 6) through the hole in one end of the handle brace (Item 32), the front handle mounting hole of the handle and screw into the front handle mounting hole in the engine base chassis (Figure 11-5).

10.Using one of the bolts and flat washers removed previously (step 8), insert the bolt with washer, from the outside, through the bottom hole on the console, through the handle, through the top hole of the handle brace, through one of the flat washers removed in step 8 and secure with lock nut (Item 151). Repeat this procedure for the bottom hole on the other side of the console. Make sure control cables are free and not damaged while tightening console mounting bolts (Figure 6).

11.On the left hand side, using one of the bolts and flat washers removed previously (step 6), insert the bolt with washer, from the outside, through the top hole on the console, through the handle, through the control cable retainer, through one of the flat washers removed in step 8 and secure with lock nut (Item 151). Repeat for righthand side except there is no control cable retainer for this side. Make sure the control cables are not damaged while tightening console mounting bolts (see figure 11-6). 12. Finish mounting handle to engine base bolts then finish tightening the remaining bolts. 13. Position control cables and use 2 cable ties on each handle to secure the cables in position. The top cable tie should be 1" below the console and the lower tie should be 12" below the console (see figure 11-7)

14.Check the position of the shift rod guide (Item 69), and if necessary, snap it in place in the shift bracket (Item 78) as shown in Figure 11-8. 15.Put shift lever in NEUTRAL, depress the brake lever (release the brake) and carefully pull the machine back off the pallet. 16.Fill with oil and gas to the proper level and the unit is ready to mow. (a battery will also have to be installed on electric models.) 17.Read the operator's manual.



Figure 11-4



Figure 11-5



Figure 11-6

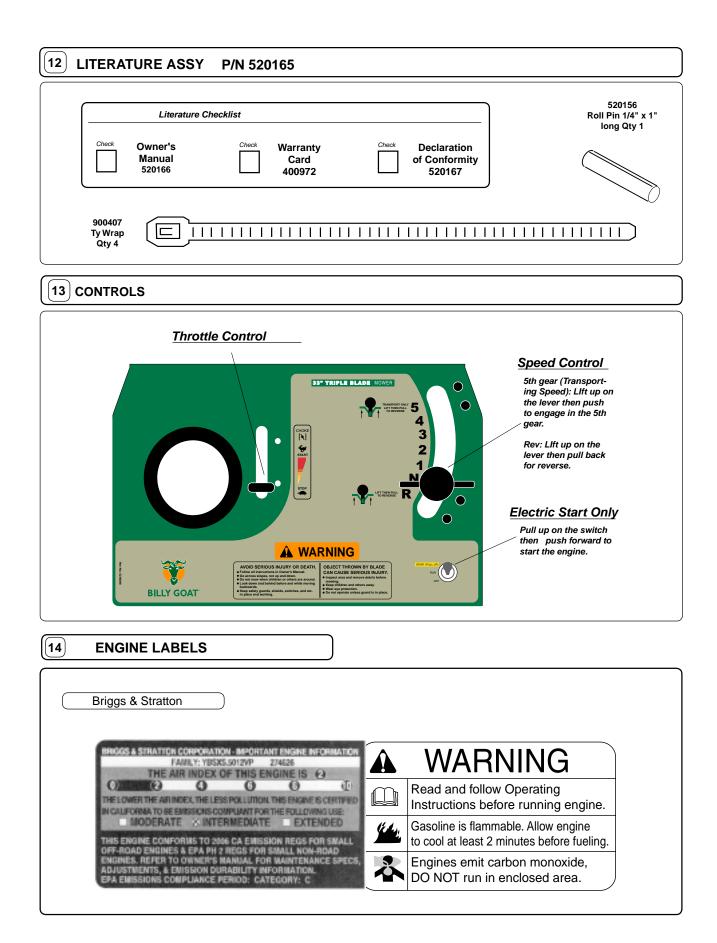


Figure 11-7



Figure 11-8

Page 4 of 20



(15) INSTRUCTION LABELS

These labels should be included on your Billy Goat Finish Mower. If any of these labels are damaged, replace them before putting this equipment into operation. Item and part numbers are given to help in ordering replacement labels.



Label Do Not Fill While Engine Is Hot Item 4 Part No.400268



Label Danger Keep Hands and Feet Away Item 5 Part No.400424



Label Read Owner's Manual Item 52 Part No.890301



Label Ear Eye Breathing Item No. 114 Part No. 890254



Label Danger Flying Material Item No. 2 Part No. 810736



Label Clutch Drive Item No. 10 Part No. 500176



Label Warning Guards Item 119 Part No.900327



Label Patent Pending Item 178 Part No.500183



Label Warning Mower Item No. 17 Part No. 510206

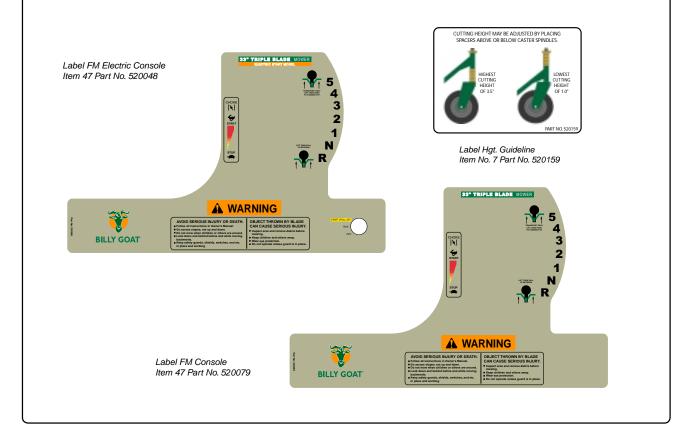


PUSH TO RELEASE BRAKE

Label Blade Drive Item No. 11 Part No. 500177



Item 95 Part No. 520117



Page 6 of 20

OPERATION

INTENDED USE: This unit is mainly designed for cutting grass. Some overgrown weeds, and taller grass may also be cut. Be sure to inspect work area and machine before operating. Make sure that all operators of this equipment are trained in general machine use and safety.

Like all mechanical tools, reasonable care must be used when operating machine. Do not operate unit in areas where bystanders may be present.

Do not operate if excessive vibration occurs. If excessive vibration occurs, shut engine off immediately and check for damaged or worn blade, loose blade jam nut, loose engine or lodged foreign objects. Note: See maintenance section for proper blade jam nut torque specifications.

(16.1) STARTING

16

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.

PUT OIL IN ENGINE THEN CHECK

THE LEVEL BEFORE STARTING.

ENGINE SPEED: Controlled by throttle lever on the control console plate.

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

CHOKE: Operated with the throttle control by moving the throttle control to the full start position.

THROTTLE: Move remote throttle control to fast position. Pull starting rope to start engine.

ELECTRIC START: Choke the engine if necessary. Pull up then push forward on the toggle switch until engine starts, then release switch to run.

1. Select desired cutting height before starting engine.

2. Place mower on a sidewalk or driveway where the mower blade is in an unloaded condition. If it must be started on the lawn, move mower over previously cut grass.

3. Be sure drive lever or blade lever are not engaged.

4. Choke if necessary.

5. Pull back on starter rope slowly until resistance is felt. Then pull cord rapidly to start. Repeat if necessary.

(16.2) CUTTING OPERATION

CAUTION: Stop Blade when crossing gravel drives, walks or roads and under all conditions where thrown objects might be a hazard.



CLEARING A CLOGGED CUTTING DECK: Turn engine off and wait for blade to stop completely. Disconnect spark plug wire.

Ê

Wearing durable gloves, remove clog. **Danger**, the clog may contain sharp materials. Reconnect spark plug wire.

CAUTION: Use extreme care when operating the blade. Inspect the work area for foreign objects that could cause damage to the unit or injure the operator if struck by the blade. Never operate the blade with bystanders in the work area.

GENERAL OPERATION: To engage the blade, depress the operator's left hand control lever against operator's handle. The blade is disengaged by releasing this lever.(See Fig. 1.1) To engage the wheel drive, lift the operator's right hand control lever against operator's handle. The drive is disengaged by releasing this lever.(See Fig. 1.2) Ground speed can be varied by shifting gears as described on page 8. To begin cutting, engage the blade lever, allow the blade to spin up to speed, and engage the wheel drive to begin moving forward into the material to be cut.

NOTE: Do not engage blade during transport between work sites. The blade should remain disengaged at all times when work is not being performed.

The best performance is achieved when cutting in dry conditions. If the deck becomes choked with grass or debris during operation, back unit off of debris allowing machine to clear itself and continue cutting, or shut the unit off and clear the clog by hand (See above). A drop in engine RPM or a noticeable change in engine sound is usually a good indicator of a clogged discharge or other interference.

Under most conditions cutting should be done in second or third gear. Fourth gear should be reserved for conditions where grass is thinned out or not as tall. The quality of the cut produced is directly related to the unit's ground speed during cutting. If the quality of the cut is not satisfactory (i.e. material left standing) you should shift into a lower gear during cutting. For improved control in confined areas, this machine can be pushed forward or backward by releasing the drive lever located at the bottom of the operator's right-hand handle while depressing the brake release lever.

(16) **OPERATION** continued

(16.3) CUTTING HEIGHT ADJUSTMENT

CAUTION: DO NOT make cutting height adjustment when engine is running.

Cutting height can be adjusted from 1.0" to 3.5" by placing spacers above or below caster spindles. For easiest adjustment change the height on one side at a time. To change cutting height, tilt the unit back, remove lynch pin, remove all spacers then set if off to the side, remove caster rig, add or subtract spacers, reinstall caster rig, place remainder of spacers if any, then reinsert lynch pin (see figure 16-1 through 16-4). Repeat this step on other side.

NOTE: Be sure that the spacers are even on both casters. Running the deck out of level will result in poor cut quality and increased belt wear.

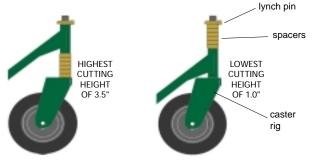


Figure 16-1











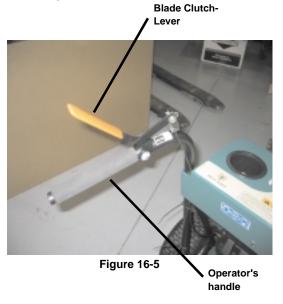
Figure 16-4

(16.4) BLADE CLUTCH

The FM mower blade clutch is controlled by an operator presence control. To engage the blade, depress the operator's left hand control lever against operator's handle. The blade is disengaged by releasing this lever.(see figure 16-5)

NOTE: The blade clutch must be either fully engaged for cutting or fully disengaged to bring the blade to a stop. Do not operate the unit with the blade clutch partially engaged. Premature belt wear and clutch failure will result from improper operation of the clutch.

CAUTION: Use extreme care when operating the blade. Inspect the work area for foreign objects that could cause damage to the unit or injure the operator if struck by the blade. Never operate the blade with bystanders in the work area. Lever operate the blade without either the discharge deflector chute or the grass catcher in place.



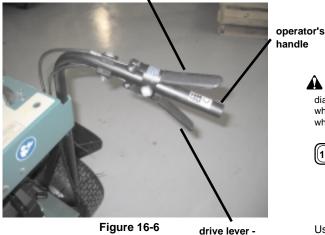
Part No. 520166

16 **OPERATION** continued

(16.5) PROPULSION

This unit is self-propelled, and is controlled by an operator presence control. To engage the wheel drive, first push down on the BRAKE RELEASE lever on the right side, then lift the operator's DRIVE lever on the right side against operator's handle. The drive is disengaged by releasing the lower lever. (see figure 16-6). Push and hold the Brake lever to free wheel.

> brake release lever - down to release



up to drive

GROUND SPEED can be varied by selecting a higher or lower gear using the gear shift lever on top of the console (see figure 16-7). Under most conditions cutting should be done in second or third gear. Fourth gear should be reserved for conditions where grass is thinned out or not as tall. The quality of the cut produced is directly related to the unit's ground speed during cutting. If the quality of the cut is not satisfactory (i.e. material left standing), you should shift into a lower gear during cutting. For improved control in confined areas, this machine can be pushed forward or backward by releasing the drive lever located at the bottom of the operator's right-hand handle while depressing the brake release lever.



Figure 16-7

16.6 **HILLSIDE MOWING**

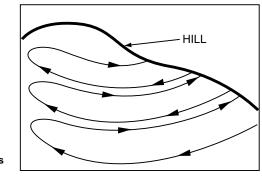


Figure 16-8

WARNING! Never mow on any slope greater than 15 degrees. Always mow across the face of slopes; never up and down or diagonally (see figure 16-8). DO NOT attempt sudden starts or stop when mowing on a slope. Avoid sudden turns and use extreme caution when changing direction on a slope.

16.7 HANDLING & TRANSPORTING:



CAUTION: ENGINE MUST BE OFF while handling, lifting, or transporting the unit on or off the vehicle.

Using two people to lift machine is recommended. Lift holding the handle and front of deck. Secure in place during transport.

(16.8) 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:

Be sure engine is cool. Do not smoke. 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. Run engine until fuel tank is empty and engine runs out of gasoline.

NOTE: Fuel stabilizer (such as Sta-Bil) is an acceptable alternative in minimizing the formation of fuel gum deposits during storage. Add stabilizer to gasoline in fuel tank or storage container. Always follow mix ratio found on stabilizer container. Run engine at least 10 min. after adding stabilizer to allow it to reach the carburetor.

CAUTION: Wheels must be chocked or blocked when unit is parked on a slope.

MAINTENANCE

(17)

Ľ	Use only a qualified mechanic for any adjustments, disassembly or any kind of repair .
	WARNING: TO AVOID PERSONAL INJURY, ALWAYS TURN MACHINE OFF, MAKE SURE ALL MOVING PARTS COME TO A COM- PLETE STOP.
	DISCONNECT SPARK PLUG WIRE BEFORE SERVICING UNIT.
	RECONNECT SPARK PLUG WIRE, AND ALL GUARDS BEFORE STARTING ENGINE.

Note: Blade, blade brake puck, transaxle brake, and drive belts are normal wear items. These should be inspected on a regular basis and replaced if worn.

(M	AINTENANCE HISTORY
Date of Service	Service Performed

ADJUST ALL BELT TENSIONS AFTER FIRST 5 HRS. OF USE TO PROLONG THE LIFE OF BELTS.

Maintenance Schedu	le	Follow these hourly maintenance intervals.						
Maintenance Operation	Every Use	Every 5 hrs or (Daily)	Every 25 hrs	Every 50 hrs	Every 200-250 hrs			
Engine (See Engine Manual)								
Check for excessive vibration								
Inspect for loose parts								
Inspect for worn/damaged parts								
Sharpen Blade								
Inspect belts for wear								
Replace blade and traction belts								
Lubricate caster pivots and height adjustment spacers			•					
Lubricate pivot points of all three control levers			•					
Check brake puck								
Check parking brake								

Page 10 of 20

17.1 CABLE ADJUSTMENTS



17

CAUTION: DO NOT make cable adjustment when engine is running. Disconnect spark plug wire before making any adjustments.

Brake Adjustment

The brake control cable is spring loaded and requires no adjustment; however, the transaxle brake is adjustable. When the mower is in neutral and can be pushed by hand without depressing the brake lever, the transaxle brake needs adjustment.

Using a 1/2 inch wrench turn the adjusting nut 1/4 turn counterclockwise (see figure 17-1).

With the machine in neutral and:

1. The brake lever not depressed, the brake should be on and inhibit the machine from being rolled by pushing.

2. The brake lever depressed the brake should be off and the machine should roll uninhibited by the brake.



Figure 17-1

Transaxle Drive Control Cable Adjustment

When the transaxle drive belt slips, the drive control cable needs to be adjusted or the belt needs to be replaced with a new belt. Cable Adjustment:

1. Using a 3/8" wrench, remove the rear access door (Item 51).

2. Using a $\frac{1}{2}$ " open end wrench, turn the inside adjusting screw clockwise 1/8 of a turn and then tighten the outboard adjusting nut against the support bracket (see figure 17-2).

3. Check for proper operation. If the operation is not correct, repeat step 2. 4. Replace the access door.

The drive control cable adjustment should be the minimum amount required so the belt does not slip when the drive is engaged.

Blade Drive Control Cable Adjustment

When the blade drive control lever is depressed, the blades should turn and the blade drive belt should not slip. When the cable is properly adjusted the tension spring on the end of the control cable will open slightly (only enough for a piece of paper to slip between the coils). See figure 17-3. Cable Adjustment:

1. Remove the deck belt cover (Item 81).

2. Observe the tension spring on the end of the cable when the blade drive lever is depressed. The spring should just break open. 3. If adjustment is required, using a 1/2" open end wrench, turn the inboard adjustment nut clockwise 1/8 of a turn (Figure 4). Then tighten the outboard adjustment nut against the cable support bracket (Item 49).

4. Check the spring tension with the blade drive lever depressed.

- 5. Readjust the control cable as needed for proper tension.
- 6. Replace the deck belt cover.

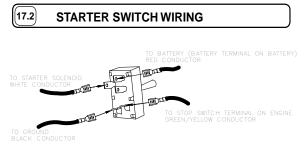
Note: Too much tension will shorten belt and bearing life and too little tension will allow the belt to slip.



Figure 17-3



Figure 17-2



Part No. 520166

Page 11 of 20

(17.4) BLADE REMOVAL / SHARPENING

NOTE: When sharpening the blade it is a good idea to check the balance of the blade. A properly balanced blade will increase life of the bearings and other components.

Tools required: ratchet, 3/4" inch socket, torque wrench, adequate support, block to inhibit blade rotation.

1. Disconnect spark plug wire.

2. Support front of unit to allow access to the blades.

Note: Unit is heavy. Be sure support is adequate to prevent personal injury.

3. Block the blade to prevent it from rotating during removal (see figure 17-4).

For Each Spindle:

17

4. Remove the blade bolt (Item 35), lock washer (33), and large friction washer (103).

5. Remove the blade (18) and replace or sharpen the blade. **NOTE:** Use only B.G.I. Part no. 520001 (Standard blade) or B.G.I. Part no. 520002 (Mulch blade).

6. Reinstall the blade using all fasteners in the exact order they were removed (see figure 17-4).

7. Torque blade screw to 60 ft-lbs.

NOTE: Before installing the fasteners inspect them for wear and replace as necessary.

8. Reconnect spark plug wire.

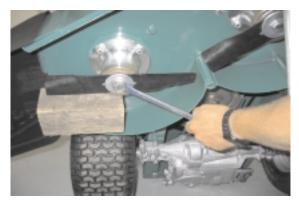


Figure 17-4



Figure 17-5

(17.5) BELT REPLACEMENT

When replacing one belt the other should be inspected for wear and replaced if worn. It is good practice to change both belts when either is worn beyond use. Use only original equipment belts for replacement. Billy Goat uses only premium quality, kevlar corded and coated belts in your unit. **Substitute belts do not meet the design and performance requirements for your unit , and will greatly reduce machine performance and belt life.**

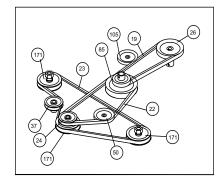


Figure 17-6

Blade Drive Belt Replacement

Tools required: ratchet, 3/4 inch socket, 10" extension bar for socket, two $\frac{1}{2}$ " wrenches and adequate support for machine.

- 1. Disconnect spark plug wire.
- 2. Remove the deck belt cover.

3. Support front of unit to allow access to underside of the machine near the engine.

Note: Unit is heavy. Be sure support is adequate to prevent personal injury.

4. Observe the orientation of the belt fingers (Item 71) under the engine.

5. Remove the 4 engine mount bolts (Item 48)

6. Remove the left and right belt fingers (These fingers are interchangeable).

7. Observe the orientation of the belt finger (Item 90) on idler (Item 91).

8. Loosen but do not remove idler/belt finger retaining nut (Item 144).

9. Observe belt routing and remove the belt from front spindle pulley (Item 46).

10. Remove the belt from the idler pulley and from the engine pulley.

11. Install new belt on engine pulley, idler and front spindle pulley following the original belt routing.

12. Position the idler belt finger centered on idler bracket and tighten the retaining nut (Item 144).

13. Reinstall the left and right belt guide fingers under the engine base using all fasteners in the exact order they were removed.

NOTE: Before installing the fasteners inspect them for wear and replace as necessary.

14. Torque the four engine bolts to 40 ft-lbs.

Note: With clutch levers engaged, be sure belt guides do not touch belts after installation.

(17.5) **BELT REPLACEMENT** continued

Blade Drive Belt Replacement continued

13. Reinstall the left and right belt guide fingers under the engine base using all fasteners in the exact order they were removed.

NOTE: Before installing the fasteners inspect them for wear and replace as necessary.

14. Torque the four engine bolts to 40 ft-lbs.

Note: With clutch levers engaged, be sure belt guides do not touch belts after installation.

15. Observe the idler pulley when the blade drive lever is lowered and released (see figure 17-7).

NOTE: Idler should tighten the belt when blade drive lever is pressed and the belt should be slack when the lever is released. With the lever depressed, the edge of the belt guide should not rub on the belt.

16. Replace the cover

17

17. Reconnect spark plug wire.

18. Start engine and check for proper operation of blade drive system.



Figure 17-7

Spindle Drive Belt

Tools required: 3/8 inch socket, 1/2 inch socket.

1. Disconnect spark plug wire.

2. Follow steps to remove the Blade Drive Belt (on the spindle pulley side only) from the previous section.

3. Loosen the two idler plate nuts (Item 143).

4. Slide the belt idler to release the belt tension.

5. Observe the belt routing, then remove the old belt and install the new belt using the original routing.

6. Tension the belt using a long screwdriver or other pry bar to push the idler pulley against the belt.

Note: Take care not to damage the idler pulley.

7. Tighten the two idler plate nuts just enough to avoid slippage while checking the belt tension.

8. Check belt deflection. Finger pressure should give 0.5" to 0.75" (see figure 17-8).

9. Increase/decrease belt tension for proper deflection.

10. Finish Tightening the two idler plate nuts.

11. Follow steps to reinstall Blade Drive Belt from the previous section.

11. Replace cover.

12. Reconnect spark plug wire.

Part No. 520166

Page 13 of 20



Figure 17-8

Transaxle Drive Belt Replacement

Tools required: 1/2 Wrench or ratchet and 1/2 inch socket, adequate support for machine.

1. Remove the Blade Drive Belt (Steps 1-10: Blade Drive Belt Replacement Procedure).

2. Assure that spark plug wire is disconnected.

3. Support rear of unit to allow access to underside of the machine near the rear.

Note: Unit is heavy. Be sure support is adequate to prevent personal injury.

4. Observe the belt fingers Item 63), position of idler and belt routing.

5. Remove the belt finger retaining nuts and bolts (Items 126 and 143).

6. Move the belt finger and remove the belt from the transaxle pulley (Item 48).

7. Remove the belt from the drive idler (Item 105).

8. Remove the belt from the engine drive pulley (Item 85).

9. Install new belt on the top (small) engine pulley, drive idler and transaxle pulley using the original belt position and routing.

10. Reposition and secure the belt finger using the original bolts, washers and nuts.

NOTE: Before installing the fasteners inspect them for wear and replace as necessary.

11. Reinstall the Blade Drive Belt (Steps 11-16: Blade Drive Belt Replacement Procedure).

Note: With clutch levers engaged, be sure belt guides do not touch belts after installation.

12. Replace the cover

13. Reconnect spark plug wire.

14. Start engine and check both belts for proper operation of *blade drive system and mower drive system*.

WARNING: If the drive clutch begins to squeal or slip, do not continue to operate your unit until adequate adjustment or repair has been performed. Improper adjustment can cause drive clutch to slip and overheat, greatly reducing machine performance and transmission life.

[17.6] BRAKE PUCK REPLACEMENT

Tools Required: 5/32" Allen wrench; 3/8" wrench.

- 1. Remove the spark plug wire.
- 2. Remove the belt deck cover.

17

- 3. Remove the brake spring (A) and control cable spring (B) (see figure 17-10).
- 4. Remove the blade drive belt (C) from the drive pulley (D).
- 5. Using a 3/8" wrench and 5/32" allen wrench, remove the
- nuts from the #10 puck retaining bolts (see figure17-11).
- 6. Remove the brake puck.
- 7. Remove the bolts from the puck.

Note: The puck ends are symmetrical and can be interchanged to use a new braking surface unless both ends are already worn (Figure 4). When both ends have been used replace the puck with a new one.

8. Inspect the nylon brake arm spacer (Item 44).

9. Replace the spacer if it shows signs of wear.

10. Reassemble all parts in the same orientation as when removed.

Note: Before installing fasteners, inspect them for wear and replace as necessary.

11. Check the operation of the clutch and brake mechanism. The drive belt should be slack and the brake engaged (center pulley will not turn easily by hand) when no pressure is exerted on blade drive lever.

Note: When the blade drive lever is depressed, the brake puck should not rub on the center pulley, the belt should be under tension, and not rub on the belt finger (see figure 17-10).

13. Replace the belt cover and connect the spark plug wire. Start the engine and check the clutch/brake operation under power.

Note: When the blade clutch control lever is pressed down, the blades should spin up to speed without belt slippage indicated by a pronounced belt squealing sound. When the clutch control lever is released, the blades should stop spinning in 5 seconds or less.

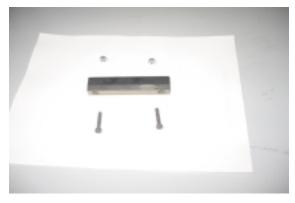


Figure 17-9

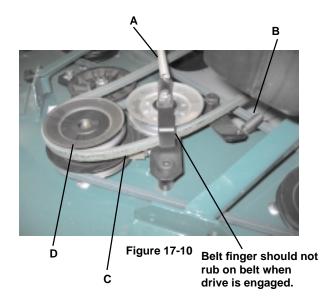




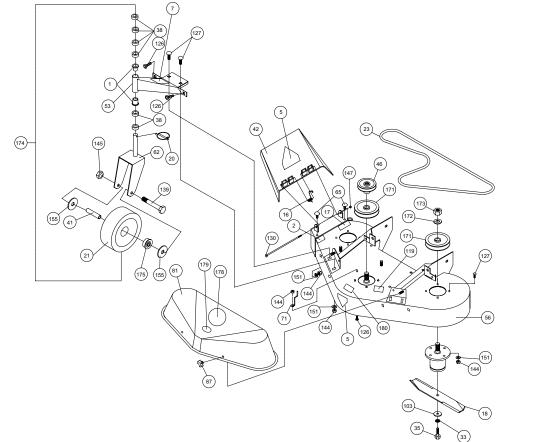
Figure 17-11

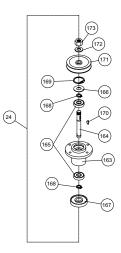
Page 14 of 20



18 PARTS DRAWING

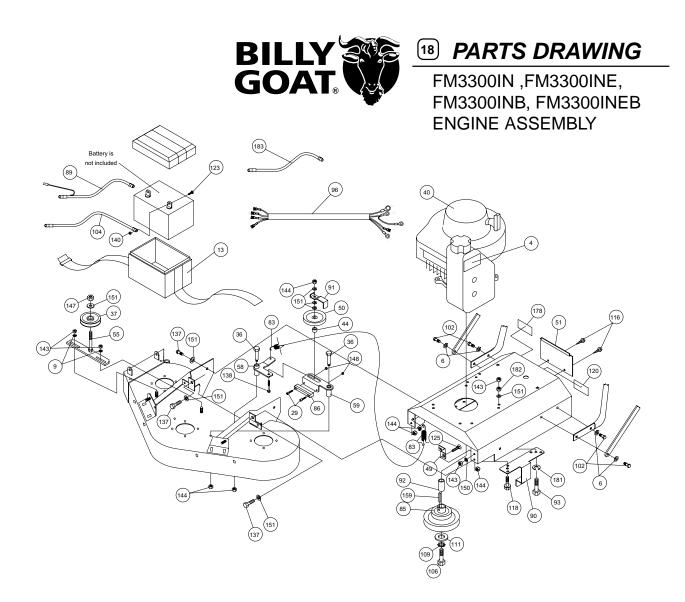
FM3300IN ,FM3300INE, FM3300INB, FM3300INEB DECK ASSEMBLY





								-	• •	-	
ITEM	DESCRIPTION	FM3300INE			QTY	ITEM	DESCRIPTION	FM3300INE	QIY		QTY
NO.		FM3300INEE	3	FM3300INB		NO.		FM3300INEB		FM3300INB	
1	BUSHING PIVOT	360183	4	360183	4	126	BOLT CARRIAGE 3/8-16X1" ZP		5	8024058	5
2	LABEL DANGER FLY	810736	1	810736	1	127	BOLT CARRIAGE 3/8-X 1 1/4	8024059	16	8024059	16
5	LABEL WARNING	400424	2	400424	2	130	SCREW CAP 1/4 - 20 X 7"	8041023	1	8041023	1
7	LABEL HGT. GUIDELINE	520043	1	520043	1	139	SCREW CAP 1/2-13 X 4 1/2	8041107	2	8041107	2
16	SPRING EXHAUST CHUTE	510205	1	510205	1	144	NUT 3/8-16 LOCK NYLON	8160003	21	8160003	21
17	LABEL WARNING MOWER	510206	1	510206	1	145	NUT 1/2-13 LOCK NYLON	8160005	2	8160005	2
18	BLADE 11.88"	520001	3	520001	3	147	NUT 1/4-20 LOCK NYLON	8160001	1	8160001	1
20	LYNCH PIN 3/16" X 1 9/16	520004	2	520004	2	151	WASHER 5/16" FC	8171003	20	8171003	20
21	WHEEL AND TIRE 8" ASSY.	520005	2	520005	2	155	WASHER 3/4 FC	8172015	4	8172015	4
23	BELT SPINDLE DRIVE	520007	1	520007	1	163	HOUSING SPINDLE	520008-01	3	520008-01	13
24	SPINDLE ASSY FM	520008	3	520008	3	164	SHAFT SPINDLE 1215 C. D. S.	520008-02	3	520008-02	23
33	WASHER 1/2 INNER TOOTH	520025	3	520025	3	165	BEARING BALL 6305-25	520008-03	6	520008-03	36
35	SCREW CAP 1/2-20X1.25	520028	3	520028	3	166	WASHER	520008-04	3	520008-04	43
38	BUSHING CASTER SPACERS	520034	12	520034	12	167	SHIELD	520008-05	3	520008-05	53
41	SPACER FRONT CASTER	520041	2	520041	2	168	RETAINING RING	520008-06	6	520008-06	36
42	EXHAUST CHUTE DEFLECT.	520042	1	520042	1	169	RETAINING RING	520008-07	3	520008-07	73
46	PULLEY DECK FRONT DRIVE	520047	1	520047	1	170	WOODRUFF KEY # 605	520008-08	3	520008-08	33
53	BRKT CASTER ARM FM WA	520167	2	520167	2	171	PULLEY 4.75" DIA. 3/4" BORE	520008-09	3	520008-09	3
56	DECK WA W/ LABELS	520071-S	1	520071-S	1	172	MACHINERY BUSHING 3/4"	520008-10	3	520008-10) 3
62	BRACKET CASTER FM WA	520161	2	520161	2	173	NUT 3/4-16 NYLON HEX	520008-11	3	520008-11	13
65	PLUG 3/8" BUTTON HEAD	520081	2	520081	2	174	FRONT CASTER ASSY.	520140	2	520140	2
71	WIRE BELT FINGER	520088	1	520088	1	175	BEARING CASTER WHEEL	520124	4	520124	4
81	GUARD BELT W/ LABELS FM	520100-S	1	520100-S	1	178	LABEL BGI BIG CIRCLE	430303	1	430303	1
87	KNOB 3 PRONG 1/4"	520109	4	520109	4	179	LABEL 33" CUT FM	520115	1	520115	1
103	WASHER 1/2" X 2	610308-P	3	610308-P	3	180	LABEL MADE IN USA	520116	1	520116	1
119	LABEL DANGER	900327	1	900327	1						

Part No. 520166

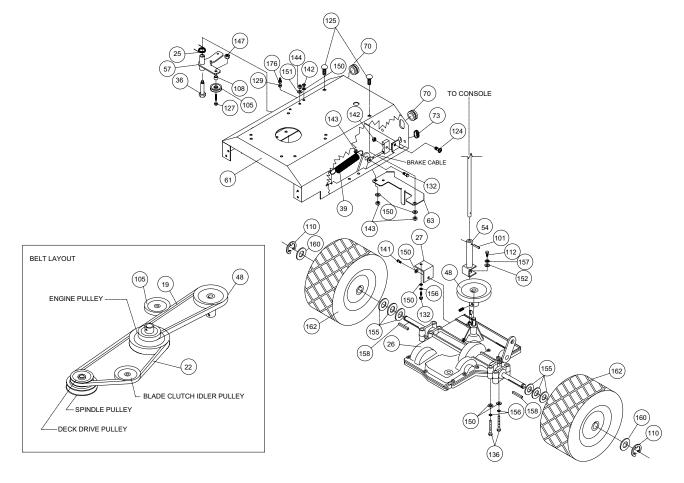


4 LABEL DO NOT FILL HOT 400268 1 400268 1 102 SCREWCAP 3/8" - 1.25" 520127 4 520"	-	
	-	ļ
	- 14 1	
6 WASHER 3/8" TWISTED LOCK 400502 4 400502 4 104 CABLE BATTERY BLACK 10" 790133 1 -	14 1	
9 WASHER 5/16" TWISTED LK. 430298 2 430298 2 106 SCREWCAP 7/16 X 2 1/4 GR 5 830114 1 8307		
13 BOX BATTERY ASSY 500300 1 109 WASHER LOCK 7/16 TWIST 850132 1 8507	32 1	
29 SCREW SOCKET #10 X 1" 520018 2 520018 2 111 WASHER ENGINE PULLEY 850443 1 8504	43 1	
36 BOLT SHOULDER 1/2" X 2" 520031 2 520031 2 116 SCREW 1/4" - 20 X 5/8" 890359 2 8903	59 2	2
37 IDLER PLASTIC 4" X 0.375 520032 1 520032 1 118 SCREWCAP 3/8" 1 1/2" TAP 890408 3 8904	-08 4	
40 ENGINE 13 HP B&S 520169 1 520168 1 120 LABEL GUARDS 900327 1 9003	27 1	
44 SPACER NYLON BRAKE 520045 1 520045 1 123 BOLT CARRIAGE 1/4" X 3/4" 8024039 2 8024	039 2	2
49 BRKT CLUTCH CABLE FM 520052 1 520052 1 125 BOLT CARRIAGE 5/16" X 1" 8024040 1 8024	040 1	
50 PULLEY IDLER BLADE DRIVE 520061 1 520061 1 137 SCREW CAP 3/8"-16 X 1 HEX 8041050 4 804"	050 4	-
51 PLATE ACCESS DOOR FM 520062 1 520062 1 138 SCREW CAP 3/8"-16 X 2 HEX 8041054 1 804"	054 1	
55 BRKT IDLER DECK BLADE WA520070 1 520070 1 140 NUT LOCK 1/4"-20 NYLON 8160001 2 8160	001 2	2
58 PLATE BLADE CLUTCH IDL. 520073 1 520073 1 143 NUT LOCK 5/16"-18 NYLON 8160002 3 8160	002 3	
59 PLATE BLADE CLUTCH BK 520074 1 520074 1 144 NUT LOCK 3/8"-16 NYLON 8160003 6 8160	003 5	,
83 SPRING TENSION WIRE 520103 1 520103 1 147 NUTLOCK 3/8"-16 LW TH ZP 8161042 1 8161	042 1	
85 PULLEY DOUBLE 6 / 3.5 FM 520105 1 520105 1 148 NUT LOCK #10 8164005 2 8164	005 2	2
86 BRAKE PUCK FM 520106 1 520106 1 150 WASHER 1/4" FC 8171002 1 817	002 1	
89 CABLE BATTERY POS 10" 520111 1 151 WASHER 5/16" FC 8171003 8 817"	003 8	5
90 BRACKET BELT FINGER 520112 2 520112 2 159 KEY 1/4" SQ. X 2.25" LONG 9201123 1 920"	123 1	
91 BRACKET BELT FINGER BK. 520113 1 520113 1 178 LABEL PATENT PENDING 500183 1 5007	83 1	
92 SPACER HUB 1" BORE 1.5" 520114 1 520114 1 181 WASHER SPLIT LOCK 5/16" 8177011 1 -	-	
93 SCREWCAP 5/16" - 18 x 2" 8041032 1 182 NUT JAM 5/16" 8142002 1 -	-	
96 WIRE HARNESS 520118 1 183 POSITIVE CABLE 10" 520123 1 -	-	

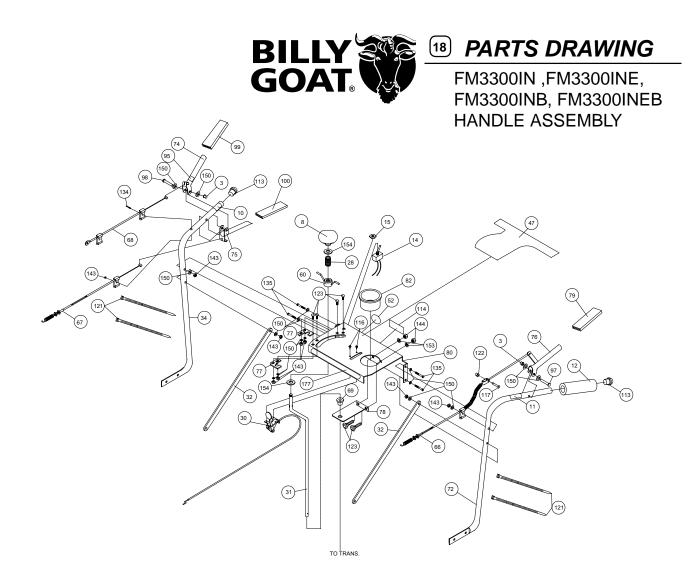


18 PARTS DRAWING

FM3300IN ,FM3300INE, FM3300INB, FM3300INEB DRIVE ASSEMBLY



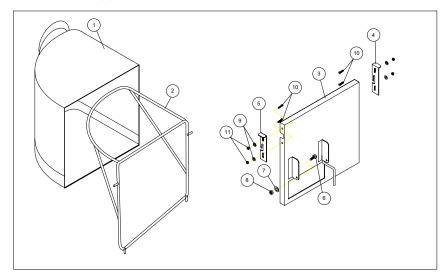
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NO.		FM3300INE	В	FM3300INB		NO.		FM3300INEE	3	FM3300INB	
19	BELT TRANS DRIVE FM	520003	1	520003	1	127	BOLT CARR. 3/8-16 X 1 1/4	8024059	1	8024059	1
22	BELT BLADE DRIVE FM	520006	1	520006	1	129	SCREWCAP 1/4"-20 X 2.75"	8041013	1	8041013	1
25	SPRING TORSION WIRE	520009	1	520009	1	132	SCREWCAP 5/16-18 X 1.25"	8041029	1	8041029	1
26	TRANSAXLE 5SPD FM	520010	1	520010	1	136	SCREW CAP 5/16 - 18 x 2.75	8041035	4	8041035	4
27	BRACKET T-AXLE SUPPORT	520016	1	520016	1	141	SCREW SELF TAP 5/16	8123128	1	8123128	1
36	BOLT SHOULDER 1/2" X 2"	520031	1	520031	1	142	NUT LOCK 1/4-20 NYLON	8160001	2	8160001	2
39	SPRING BRAKE	520037	1	520037	1	143	NUT LOCK 5/16-18 NYLON	8160002	3	8160002	3
48	PULLEY 5" OD "A" SEC. FM	520050	1	520050	1	144	NUT LOCK 3/8-16 NYLON	8160003	1	8160003	1
54	SHIFT LINKGAGE FM	520068	1	520068	1	147	NUTLOCK 3/8"-16 LW TH ZP	8161042	1	8161042	1
57	BRKT IDLER GRND DRIVE	520072	1	520072	1	150	WASHER 1/4" FC	8171002	5	8171002	5
61	BASE ENGINE W/INSERTS	520076	1	520076	1	151	WASHER 5/16" FC	8171003	1	8171003	1
63	BRACKET BELT GUIDE DRV	520078	1	520078	1	152	WASHER 1/4 SAE	8172007	1	8172007	1
70	GROMMET RUBBER 1"	520087	2	520087	2	155	WASHER 3/4 FC	8172015	1-3	8172015	1-3
73	GROMMET RUBBER 1.25"	520092	1	520092	1	156	WASHER LOCK 5/16 SPLIT	8177011	5	8177011	5
101	ROLL PIN 1/4" X 1.0 IN LONG	520156	1	520156	1	157	WASHER LOCK 1/4" EXT.	8181007	1	8181007	1
105	PULLEY IDLER TENSION	800260	1	800260	1	158	KEY 3/16 x 2 1/8	9201087	2	9201087	2
108	TUBE PIVOT IDLER VQ	830526	1	830526	1	160	WASHER 3/4 THIN	850238	2	850238	2
110	RING SNAP 0.75	850230	2	850230	2	162	WHEEL AND TIRE 12"				
112	SCREW CAP 1/4-28X1/2" GR 5	5 854408	1	854408	1		FM3300IN & FM3300INE	520164	2	520164	2
124	BOLT CARR. 1/4-20X1.25"	8024023	1	8024023	1		FM3300INB & FM3300INBE	830177	2	830177	2
125	BOLT CARR. 5/16-18X1"	8024058	2	8024058	2	176	NUT JAM 1/4-20	8143001	1	8143001	1



NO. FM3300INEB FM3300INE FM3300INE FM3300INE FM3300INE FM3300INE 3 PALNUTS 3/8" 360218 2 360218 79 GRIP LEVER ORANGE 520098 1 520098 1 10 LABEL CLUTCH DRIVE 500176 1 500176 1 82 CUP HOLDER 520102 1 520102 1 11 LABEL BLADE DRIVE 500177 1 500177 95 LABEL PUSH TO RELEASE 520117 1 520117 1 12 GRIP HANDLE 1"x 7" 500267 1 97 CLEVIS PINS 3/8 - 2.125 520120 1 520120 1 14 SWITCH ELECTRIC W/ NUT 500377 1 99 GRIP LEVER 0.125-1.0-3.75 520121 1 520120 1 28 SPRING COMPRESSOR 1/2" 520017 1 520017 1 99 GRIP LEVER 0.125-1.0-3.75 520121 1 520120 1 30 CONTROL THROTTLE POS 5200020 1 1100	ITEM	DESCRIPTION	FM3300INE	QTY	FM3300IN	QTY	ITEM	DESCRIPTION	FM3300INE	QTY	FM3300IN	QTY
8 KNOB 1/2" THREAD 430128 1 430128 1 80 CONSOLE FM W/ LABELS 520146 1 520142 1 10 LABEL CLUTCH DRIVE 500176 1 500176 1 82 CUP HOLDER 520102 1 520102 1 11 LABEL BLADE DRIVE 500177 1 500177 1 95 LABEL PUSH TO RELEASE 520117 1 520119 1 12 GRIP HANDLE 1"x 7" 500267 1 97 CLEVIS PINS 3/8 - 1.625 520120 1 520120 1 28 SPRING COMPRESSOR 1/2" 520017 1 520019 1 00 GRIP LEVER 0.125-0.075X3.75 520120 1 520120 1 30 CONTROL THROTTLE POS 520019 1 520020 1 113 PLUG TUBE INSERT 1" 890132 2 890132 2 890359 2 890359 2 890359 2 890359 2 890359 2 890359 2	NO.		FM3300INEE	3	FM3300INB		NO.		FM3300INEI	В	FM3300INB	
10 LABEL CLUTCH DRIVE 500176 1 500176 1 82 CUP HOLDER 520102 1 520102 1 11 LABEL BLADE DRIVE 500177 1 500177 1 95 LABEL PUSH TO RELEASE 520117 1 520102 1 520102 1 12 GRIP HANDLE 1" x 7" 500267 1 97 CLEVIS PINS 3/8 - 1.625 520119 1 520120	3	PALNUTS 3/8"	360218	2	360218	2	79	GRIP LEVER ORANGE	520098	1	520098	1
11 LABEL BLADE DRIVE 500177 1 95 LABEL PUSH TO RELEASE 520117 1 520117 1 12 GRIP HANDLE 1"x 7" 500267 1 500267 1 97 CLEVIS PINS 3/8 - 1.625 520119 1 520119 1 14 SWITCH ELECTRIC W/ NUT 500307 1 - - 98 CLEVIS PINS 3/8 - 2.125 520120 1 520120 1 28 SPRING COMPRESSOR 1/2" 520017 1 520019 1 00 GRIP LEVER 0.125-1.00-3.75 520122 1 520121 1 <t< td=""><td>8</td><td>KNOB 1/2" THREAD</td><td>430128</td><td>1</td><td>430128</td><td>1</td><td>80</td><td>CONSOLE FM W/ LABELS</td><td>520146</td><td>1</td><td>520145</td><td>1</td></t<>	8	KNOB 1/2" THREAD	430128	1	430128	1	80	CONSOLE FM W/ LABELS	520146	1	520145	1
12 GRIP HANDLE 1" x 7" 500267 1 97 CLEVIS PINS 3/8 - 1.625 520119 1 520119 1 14 SWITCH ELECTRIC W/ NUT 500307 1 - - 98 CLEVIS PINS 3/8 - 2.125 520120 1 520120 1 28 SPRING COMPRESSOR 1/2" 520017 1 520017 1 99 GRIP LEVER 0.125-1.00-3.75 520121 1 520122 1 30 CONTROL THROTTLE POS 520019 1 520020 1 113 PLUG TUBE INSERT 1" 890132 2 890132 2 890132 2 890254 1 890254 1 890254 1 890254 1 890254 1 890254 1 890254 1 890254 1 890254 1 890254 1 890254 1 890254 1 890254 1 890254 1 890254 1 890254 1 890254 1 31 5200264-S 1 117 <td>10</td> <td>LABEL CLUTCH DRIVE</td> <td>500176</td> <td>1</td> <td>500176</td> <td>1</td> <td>82</td> <td>CUP HOLDER</td> <td>520102</td> <td>1</td> <td>520102</td> <td>1</td>	10	LABEL CLUTCH DRIVE	500176	1	500176	1	82	CUP HOLDER	520102	1	520102	1
14 SWITCH ELECTRIC W/ NUT 500307 1 - - 98 CLEVIS PINS 3/8 - 2.125 520120 1 520120 1 28 SPRING COMPRESSOR 1/2" 520017 1 520017 1 99 GRIP LEVER 0.125-1.00-3.75 520121 1 520122 1 30 CONTROL THROTTLE POS 520019 1 520019 1 100 GRIP LEVER 0.125-0.75X3.75 520122 1 520122 1 31 ROD SHIFT LINKGAGE 520020 1 520020 1 113 PLUG TUBE INSERT 1" 890132 2 890132 2 32 BAR HANDLE BRACE FM 520026-S 1 116 SCREW 1/4" - 20 X 5/8 890359 2 890359 2 34 HANDLE RH FM 520026-S 1 117 PIN CLEVIS 5/16-24 830513 1 830513 1 52 LABEL CANSOLE 520048 1 520075 1 122 PAL NUTS 5/16" 360203 1 360203 1 360203 1 360203 1 360203 1 360203	11	LABEL BLADE DRIVE	500177	1	500177	1	95	LABEL PUSH TO RELEASE	520117	1	520117	1
28 SPRING COMPRESSOR 1/2" 52017 1 52017 1 99 GRIP LEVER 0.125-1.00-3.75 520121 1 520121 1 30 CONTROL THROTTLE POS 520019 1 520019 1 00 GRIP LEVER 0.125-0.75X3.75 520122 1 520122 1 31 ROD SHIFT LINKGAGE 520020 1 520020 1 113 PLUG TUBE INSERT 1" 890132 2 890132 2 32 BAR HANDLE BRACE FM 520024 2 114 LABEL CAR-EYE-BREATHE 890254 1 890254 1 890254 1 890254 1 890254 1 890254 1 890254 1 890254 1 890254 1 890254 1 890254 1 890359 2 890359 2 890359 2 890359 2 890359 2 890359 2 890359 2 890359 2 890359 2 890359 2 890359 2 <td>12</td> <td>GRIP HANDLE 1" x 7"</td> <td>500267</td> <td>1</td> <td>500267</td> <td>1</td> <td>97</td> <td>CLEVIS PINS 3/8 - 1.625</td> <td>520119</td> <td>1</td> <td>520119</td> <td>1</td>	12	GRIP HANDLE 1" x 7"	500267	1	500267	1	97	CLEVIS PINS 3/8 - 1.625	520119	1	520119	1
30 CONTROL THROTTLE POS 520019 1 520019 1 100 GRIP LEVER 0.125-0.75X3.75 520122 1 520122 1 31 ROD SHIFT LINKGAGE 520020 1 520020 1 113 PLUG TUBE INSERT 1" 890132 2 890132 2 32 BAR HANDLE BRACE FM 520024 2 114 LABEL EAR-EYE-BREATHE 890254 1 890254 1 34 HANDLE RH FM 520026-S 1 520026-S 1 116 SCREW 1/4" - 20 X 5/8 890359 2 890359 2 47 LABEL CONSOLE 520048 1 520079 1 117 PIN CLEVIS 5/16-24 830513 1 830513 1 52 LABEL RAD MANUAL 890301 1 890301 122 PAL NUTS 5/16" 3060203 1 360203 1 60 SHIFT LOCK HANDLE FM 520083 1 520084-S 1 134 SCREW CAP 5/16-18 X 3/4 8024039 6 8024039	14	SWITCH ELECTRIC W/ NUT	500307	1	-	-	98	CLEVIS PINS 3/8 - 2.125	520120	1	520120	1
31 ROD SHIFT LINKGAGE 520020 1 520020 1 113 PLUG TUBE INSERT 1" 890132 2 890132 2 32 BAR HANDLE BRACE FM 520024 2 520024 2 114 LABEL EAR-EYE-BREATHE 890254 1 890254 1 34 HANDLE RH FM 520026-S 1 520026-S 1 116 SCREW 1/4" - 20 X 5/8 890359 2 890359 2 47 LABEL CONSOLE 520048 1 520079 1 117 PIN CLEVIS 5/16-24 830513 1 830513 1 52 LABEL READ MANUAL 890301 1 890301 1 121 TY-WRAP 900407 4 900407 4 60 SHIFT LOCK HANDLE FM WA 520075 1 520075 1 122 PAL NUTS 5/16" 360203 1 360203 1 360203 1 360203 1 360203 1 360203 1 360203 1 360203	28	SPRING COMPRESSOR 1/2"	520017	1	520017	1	99	GRIP LEVER 0.125-1.00-3.75	520121	1	520121	1
32 BAR HANDLE BRACE FM 520024 2 520024 2 114 LABEL EAR-EYE-BREATHE 890254 1 890254 1 34 HANDLE RH FM 520026-S 1 116 SCREW 1/4" - 20 X 5/8 890359 2 890359 2 47 LABEL CONSOLE 520048 1 520079 1 117 PIN CLEVIS 5/16-24 830513 1 830513 1 52 LABEL READ MANUAL 890301 1 890301 1 121 TY-WRAP 900407 4 900407 4 60 SHIFT LOCK HANDLE FM WA 520075 1 520075 1 122 PAL NUTS 5/16" 360203 1 360203 1 66 CABLE CLUTCH BLADE FM 520083 1 520084-S 1 34 SCREW CAP 5/16-18 X 3/4 8024039 6 8024039 6 67 CABLE CLUTCH DRIVE FM 520085 1 3250085 1 335 SCREW CAP 5/16-18 X 2/4 8041032 1 8041032 </td <td>30</td> <td>CONTROL THROTTLE POS</td> <td>520019</td> <td>1</td> <td>520019</td> <td>1</td> <td>100</td> <td>GRIP LEVER 0.125-0.75X3.75</td> <td>520122</td> <td>1</td> <td>520122</td> <td>1</td>	30	CONTROL THROTTLE POS	520019	1	520019	1	100	GRIP LEVER 0.125-0.75X3.75	520122	1	520122	1
34 HANDLE RH FM 520026-S 1 520026-S 1 116 SCREW 1/4" - 20 X 5/8 890359 2 890359 2 47 LABEL CONSOLE 520048 1 520079 1 117 PIN CLEVIS 5/16-24 830513 1 830513 1 52 LABEL READ MANUAL 890301 1 890301 1 121 TY-WRAP 900407 4 900407 4 60 SHIFT LOCK HANDLE FM WA 520075 1 520075 1 122 PAL NUTS 5/16" 360203 1 360203 1 66 CABLE CLUTCH BLADE FM 520083 1 520084-S 1 133 BOLT CARRIAGE 5/16-18 X 3/4 8024039 6 8024039 6 67 CABLE CLUTCH DRIVE FM 520084-S 1 134 SCREW CAP 5/16-18 X 2 8041032 1 8041032 1 68 CABLE CLUTCH BRAKE FM 520086 1 520086 1 143 NUT LOCK 5/16-18 X 2 1/4 8041033 4 8041033 4 <td>31</td> <td>ROD SHIFT LINKGAGE</td> <td>520020</td> <td>1</td> <td>520020</td> <td>1</td> <td>113</td> <td>PLUG TUBE INSERT 1"</td> <td>890132</td> <td>2</td> <td>890132</td> <td>2</td>	31	ROD SHIFT LINKGAGE	520020	1	520020	1	113	PLUG TUBE INSERT 1"	890132	2	890132	2
47 LABEL CONSOLE 520048 1 520079 1 117 PIN CLEVIS 5/16-24 830513 1 830513 1 52 LABEL READ MANUAL 890301 1 890301 1 121 TY-WRAP 900407 4 900407 4 60 SHIFT LOCK HANDLE FM WA 520075 1 520075 1 122 PAL NUTS 5/16" 360203 1 360203 1 66 CABLE CLUTCH BLADE FM 520083 1 520083 1 123 BOLT CARRIAGE 5/16-18 X 3/4 8024039 6 8024039 6 67 CABLE CLUTCH DRIVE FM 520084-S 1 520085 1 135 SCREW CAP 5/16-18 X 2 8041032 1 8041032 1 68 CABLE CLUTCH BRAKE FM 520085 1 520085 1 135 SCREW CAP 5/16-18 X 2 1/4 8041033 4 8041033 4 8041033 4 8041033 4 8041033 4 8041033 4 8041033 4 8041033 4 8041033 4 8041033 4 8041033	32	BAR HANDLE BRACE FM	520024	2	520024	2	114	LABEL EAR-EYE-BREATHE	890254	1	890254	1
52 LABEL READ MANUAL 890301 1 890301 1 121 TY-WRAP 900407 4 900407 4 60 SHIFT LOCK HANDLE FM WA 520075 1 520075 1 122 PAL NUTS 5/16" 360203 1 360203 1 66 CABLE CLUTCH BLADE FM 520083 1 520083 1 123 BOLT CARRIAGE 5/16-18 X 3/4 8024039 6 8024039 6 67 CABLE CLUTCH DRIVE FM 520084-S 1 520084-S 1 134 SCREW CAP 5/16-18 X 2 8041032 1 8041032 1 68 CABLE CLUTCH BRAKE FM 520086 1 520085 1 135 SCREWCAP 5/16-18 X 2 4041033 4 8041033 4 69 BUSHING NYL SNAP-LOCK 520086 1 520091-S 1 143 NUT LOCK 5/16-18 XYLON 8160002 9 8160002 9 8160002 9 8160002 9 8160002 9 8160003 2 8160003 2	34	HANDLE RH FM	520026-S	1	520026-S	1	116	SCREW 1/4" - 20 X 5/8	890359	2	890359	2
60 SHIFT LOCK HANDLE FM WA 520075 1 520075 1 122 PAL NUTS 5/16" 360203 1 360203 1 66 CABLE CLUTCH BLADE FM 520083 1 520083 1 123 BOLT CARRIAGE 5/16-18 X 3/4 8024039 6 8024039 6 67 CABLE CLUTCH DRIVE FM 520084-S 1 134 SCREW CAP 5/16-18 X 2 8041032 1 8041032 1 68 CABLE CLUTCH BRAKE FM 520085 1 520085 1 135 SCREWCAP 5/16-18 X 2 8041033 4 8041033 4 69 BUSHING NYL SNAP-LOCK 520086 1 520091-S 1 143 NUT LOCK 5/16-18 NYLON 8160002 9 8160002 9 72 HANDLE LH FM 520091-S 1 144 NUT LOCK 3/8-16 NYLON 8160003 2 8160003 2 8160003 2 8160003 2 8160003 2 8160003 2 8160003 2 8160003 2 8160003 2 <td>47</td> <td>LABEL CONSOLE</td> <td>520048</td> <td>1</td> <td>520079</td> <td>1</td> <td>117</td> <td>PIN CLEVIS 5/16-24</td> <td>830513</td> <td>1</td> <td>830513</td> <td>1</td>	47	LABEL CONSOLE	520048	1	520079	1	117	PIN CLEVIS 5/16-24	830513	1	830513	1
66 CABLE CLUTCH BLADE FM 520083 1 520083 1 123 BOLT CARRIAGE 5/16-18 X 3/4 8024039 6 8024039 6 67 CABLE CLUTCH DRIVE FM 520084-S 1 134 SCREW CAP 5/16-18 X 2 8041032 1 8041032 1 68 CABLE CLUTCH BRAKE FM 520085 1 520085 1 135 SCREWCAP 5/16-18 X 2 8041033 4 8041033 4 69 BUSHING NYL SNAP-LOCK 520086 1 520086 1 143 NUT LOCK 5/16-18 NYLON 8160002 9 8160002 9 72 HANDLE LH FM 520091-S 1 144 NUT LOCK 3/8-16 NYLON 8160003 2 8160003 2 74 LEVER CONTROL BRAKE FM 520093-S 1 150 WASHER 1/4" FC 8171001 16 8171001 16 75 LEVER CONTROL DRIVE FM 520094 1 520095 1 154 WASHER 5/16 SAE 8172008 2 8172008 2 8172011 <td>52</td> <td>LABEL READ MANUAL</td> <td>890301</td> <td>1</td> <td>890301</td> <td>1</td> <td>121</td> <td>TY-WRAP</td> <td>900407</td> <td>4</td> <td>900407</td> <td>4</td>	52	LABEL READ MANUAL	890301	1	890301	1	121	TY-WRAP	900407	4	900407	4
67 CABLE CLUTCH DRIVE FM 520084-S 1 520084-S 1 134 SCREW CAP 5/16-18 X 2 8041032 1 8041032 1 68 CABLE CLUTCH BRAKE FM 520085 1 520085 1 135 SCREWCAP 5/16-18 X 2 8041033 4 8041033 4 69 BUSHING NYL SNAP-LOCK 520086 1 520086 1 143 NUT LOCK 5/16-18 X 21/4 8041033 4 8041033 4 69 BUSHING NYL SNAP-LOCK 520086 1 520086 1 143 NUT LOCK 5/16-18 X 21/4 8041033 4 8041033 4 72 HANDLE LH FM 520091-S 1 144 NUT LOCK 3/8-16 NYLON 8160003 2 8160003 2 74 LEVER CONTROL BRAKE FM 520093-S 1 150 WASHER 1/4" FC 8171001 16 8171001 16 75 LEVER CONTROL DRIVE FM 520094 1 520095 1 154 WASHER 5/16 SAE 8172008 2 8172018 2 <td>60</td> <td>SHIFT LOCK HANDLE FM WA</td> <td>520075</td> <td>1</td> <td>520075</td> <td>1</td> <td>122</td> <td>PAL NUTS 5/16"</td> <td>360203</td> <td>1</td> <td>360203</td> <td>1</td>	60	SHIFT LOCK HANDLE FM WA	520075	1	520075	1	122	PAL NUTS 5/16"	360203	1	360203	1
68 CABLE CLUTCH BRAKE FM 520085 1 520085 1 135 SCREWCAP 5/16-18 x 2 1/4 8041033 4 8041033 4 69 BUSHING NYL SNAP-LOCK 520086 1 520086 1 143 NUT LOCK 5/16-18 x 2 1/4 8041033 4 8041033 4 69 BUSHING NYL SNAP-LOCK 520086 1 520091-S 1 143 NUT LOCK 5/16-18 x 2 1/4 8041033 4 8041033 4 72 HANDLE LH FM 520091-S 1 144 NUT LOCK 3/8-16 NYLON 8160003 2 8160003 2 74 LEVER CONTROL BRAKE FM 520093-S 1 150 WASHER 1/4" FC 8171001 16 8171001 16 75 LEVER CONTROL DRIVE FM 520094 1 520094 1 153 WASHER 5/16 SAE 8172008 2 8172008 2 76 LEVER CONTROL BLADE FM 520095 1 520095 1 154 WASHER 1/2" SAE ZP 8172011 2	66	CABLE CLUTCH BLADE FM	520083	1	520083	1	123	BOLT CARRIAGE 5/16-18 X 3/4	8024039	6	8024039	6
69BUSHING NYL SNAP-LOCK52008615200861143NUT LOCK 5/16-18 NYLON816000298160002972HANDLE LH FM520091-S1520091-S1144NUT LOCK 3/8-16 NYLON816000328160003274LEVER CONTROL BRAKE FM520093-S1520093-S1150WASHER 1/4" FC81710011681710011675LEVER CONTROL DRIVE FM52009415200941153WASHER 5/16 SAE817200828172008276LEVER CONTROL BLADE FM52009515200951154WASHER 1/2" SAE ZP8172011281720112	67	CABLE CLUTCH DRIVE FM	520084-S	1	520084-S	1	134	SCREW CAP 5/16-18 X 2	8041032	1	8041032	1
72 HANDLE LH FM 520091-S 1 520091-S 1 144 NUT LOCK 3/8-16 NYLON 8160003 2 8160003 2 74 LEVER CONTROL BRAKE FM 520093-S 1 520093-S 1 150 WASHER 1/4" FC 8171001 16 8171001 16 75 LEVER CONTROL DRIVE FM 520094 1 520094 1 153 WASHER 5/16 SAE 8172008 2 8172008 2 76 LEVER CONTROL BLADE FM 520095 1 154 WASHER 1/2" SAE ZP 8172011 2 8172011 2	68	CABLE CLUTCH BRAKE FM	520085	1	520085	1	135	SCREWCAP 5/16-18 x 2 1/4	8041033	4	8041033	4
74 LEVER CONTROL BRAKE FM 520093-S 1 520093-S 1 150 WASHER 1/4" FC 8171001 16 8171001 16 75 LEVER CONTROL DRIVE FM 520094 1 520094 1 153 WASHER 5/16 SAE 8172008 2 8172008 2 76 LEVER CONTROL BLADE FM 520095 1 520095 1 154 WASHER 1/2" SAE ZP 8172011 2 8172011 2	69	BUSHING NYL SNAP-LOCK	520086	1	520086	1	143	NUT LOCK 5/16-18 NYLON	8160002	9	8160002	9
75 LEVER CONTROL DRIVE FM 520094 1 520094 1 153 WASHER 5/16 SAE 8172008 2 8172008 2 76 LEVER CONTROL BLADE FM 520095 1 520095 1 154 WASHER 1/2" SAE ZP 8172011 2 8172011 2	72	HANDLE LH FM	520091-S	1	520091-S	1	144	NUT LOCK 3/8-16 NYLON	8160003	2	8160003	2
76 LEVER CONTROL BLADE FM 520095 1 154 WASHER 1/2" SAE ZP 8172011 2 8172011 2	74	LEVER CONTROL BRAKE FM	520093-S	1	520093-S	1	150	WASHER 1/4" FC	8171001	16	8171001	16
	75	LEVER CONTROL DRIVE FM	520094	1	520094	1	153	WASHER 5/16 SAE	8172008	2	8172008	2
77 PLATE REV LOCK OUT 520096 2 520096 2 177 LABEL BGI OVAL FM 520110 1 520110 1	76	LEVER CONTROL BLADE FM	520095	1	520095	1	154	WASHER 1/2" SAE ZP	8172011	2	8172011	2
	77	PLATE REV LOCK OUT	520096	2	520096	2	177	LABEL BGI OVAL FM	520110	1	520110	1
78 BRACKET SHIFT PIVOT FM 520097 1 520097 1	78	BRACKET SHIFT PIVOT FM	520097	1	520097	1						

(19.1) GRASS CATCHER KIT 520144

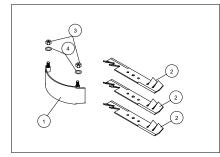
Purpose: Easily convert your mower to bag grass and leaves.



Item No.	Part No.	Description	Qty
1	520012	GRASS CATCHER BAG	1
2	520038	WIRE FRAME GRASS CATCHER FM	1
3	520069	GRASS CATCHER MOUNT WA FM	1
4	520059	BRACKET GRASS CATHCER LATCH L FM	1
5	520060	BRACKET GRASS CATHCER LATCH R FM	1
6	8041006	SCREWCAP 1/4" - 20 X 1" ZP	1
7	8171002	WASHER 1/4" FC ZP	1
8	8160001	NUTLOCK 1/4" - 20	1
9	520126	WASHER #8 SAE	4
10	520128	SCREW ROUND HEAD #8-32 X 3/4" CLEAR ZINC	4
11	520129	NUTLOCK #8 - 32	4
12	520147	LIT GRASS CATCHER KIT FM	1

(19.2) MULCHING KIT 520142

Purpose: Reduces lawn clippings to fine nutrient-rich particles that filter down to the soil.



Item No.	Part No.	Description	Qty	Item No.	Part No.	Description	Qty
1	520014	MULCHING PLATE WA FM	1	1	520151	BRACKET GUARD TRANSAXLE FM	1
2	520002	BLADE 11.88" MULCHING	3	2	8041028	SCREWCAP 5/16-18X1"	4
3	8161003	NUTLOCK 3/8"-16	2	3	8171002	WASHER 1/4 FC	2
4	8171003	WASHER 5/16 FC	2	4	8161003	NUTLOCK 5/16 - 18	4
5	520148	LIT MULCHING KIT FM	1	-			

19.3) TRANSAXLE GUARD KIT 520155

(1)

Purpose: To protect the transaxle from accidental contact from concrete curbs or other hazards.

2 3 (4)

(20) TROUBLESHOOTING

Before Requesting Service Review These Suggestions

NOTE: For repairs beyond the minor adjustments listed below, contact your nearest authorized service dealer.

Problem	Possible Cause	Solution
The engine will not start	 Engine not properly primed. Out of gasoline or bad or old gasoline. Spark plug wire disconnected. Dirty air cleaner. Blade Clutch is engaged. 	 Prime to choke. Check gasoline. Check for spark with an approved tester. Clean or replace air cleaner. Disengage the Blade Clutch Lever.
The engine will not stop	1. Damaged control cable. 2. The Harness Wire is disconnected or damaged (electric start model) 3. Damaged ignition switch (electric start model).	 Replace control cable. Recconect the Harness Wire or replace if damaged. Replace switch.
Engine runs poorly	 Spark plug wire loose. Engine RPM set too low. Carburetor out of adjustment. Water or dirt in fuel system. Spark plug fouled, faulty or wrong gap. 	 Sharpen or replace blade (see page 8). Check engine RPM.(refer to engine manual). Adjust carburetor (refer to engine manual). Drain or siphon then replace with fresh gasoline. Reset gap or replace spark plug (refer to engine manual).
Will not cut or has poor cut- ting performance.	 Dull or bent Blade. Clogged deck. Engine running at too low RPM. Wet grass. Excessively high grass. 	 Sharpen blade or replace blade (see page 10). Unclog deck (see page 6). Check engine RPM (refer to engine manual). Do not mow when grass is wet; wait until later to cut. Mow once at a high cuting height then mow again at desired height or make a narrower cutting path.
Uneven cut	1. Height adjust is not set correctly. 2. Dull or bent blade.	1. Be sure height adjust is set the same on both sides (see page 7). 2. Sharpen blade or replace blade (see page 10).
Abnormal vibration.	1. Loose or out of balance blade. 2. Bent blade. 3. Loose engine.	 Check blade mount and balance or replace if required. Replace with the new blade (see page 10). Check Engine mount.
Belt slips or smokes.	 Belt tension too low. Belt worn or stretched. Pulleys worn or damaged. Control Cable is out of adjustment. 	 Increase tension at idler(see page 10-11). Replace belt. Replace pulleys. Adjust Control Cable (see page 9).
No self propelling.	 Not set to gear. Out of adjustment clutch cable. Broken clutch cable. Worn or broken belt. 	 Shift lever in desired gear Adjust clutch cable (see page 9). Replace with new cable. Replace belt (see page 11).
Self propelled drive will not release .	1. Clutch cable out of adjustment. 2. Damaged Drive Clutch Lever.	1. Adjust clutch cable (see page 11). 2. Replace Drive Clutch Lever.
Engine is locked, will not pull over.	 Debris locked against blade. Damaged engine. Broken control cable 	 Remove debris (see page 6). Refer to your engine owner's manual. Replace control cable.

ENGINE

When servicing engine refer to specific manufacturers engine owner's manual. All 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 11). If you can not locate a servicing dealer in your area you can contact the manufacturers national service organization. **To reach: Briggs & Stratton:** 800-233-3723

Engine Service and Warranty Contact your nearest engine manufacturer's authorized servicing dealer.	WARRANTY 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:		
21 Serial Plate Record your machine model, serial number and date-of-purchase and where purchased	-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,		
BILDY 1803 S.W. Jefferson Lee's Summit, NO 64082 / USA Tel (816) 524-6666 Fax (816) 524-6686 Fax (816) 524-6983 Fax (816) 524-6983	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.		
Model Serial No. 100 dB Model Serial No. Unit(Weight) Engine Power Ibs. kg kw rpm	 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 conclu- sions to the distributor service manager from whom the claim was received. The decision by the Quality / Service department at Billy Goat to approve or reject a Warranty claim is final and binding. 		
	Note: To process a Warranty Claim, it is necessary to quote the Model & Serial Number which are printed on the Billy Goat Serial Plate (See owner's manual).		
Purchase Purchased Date	BILLY BILLY GOAT INDUSTRIES INC. PO BOX 308 LEE'S SUMMIT, MO 64063-0308 / USA PHONE: 816-524-9666 FAX: 816-524-6983 www.billygoat.com		

Part No. 520166

Page 20 of 20

	Gardening Supply		
Patio Barbecues	Outdoor Barbecues	Landmann Barbecues	Gas Barbecues UK
<u>Charcoal Barbecues</u> Brush Cutters	Gas Barbecues Brushcutters	<u>Cheap Gas Barbecues</u> <u>Blower Vacs</u>	Masonry Barbecues Chain Saws
<u>Chainsaws</u>	Cultivators	Cylinder Lawn Mowers	Echo Chainsaws
Echo Strimmers	Electric Chainsaws	Fertiliser Spreaders	Garden Blowers
Garden Rollers	Lawn Rollers	Garden Shredders	Garden Tractors
Garden Vacuums	Hayter Lawn Mowers	Hedge Cutters	<u>Hedgecutters</u> Kawasaki
Hover Mowers	<u>Husqvarna chainsaws</u>	Kawasaki Brush Cutters	<u>Strimmers</u>
Lawn Mowers	<u>Scarifiers</u>	Lawn Tractors	<u>Leaf Blowers</u> Ride on lawn
Leaf Vacuums	Petrol Chainsaws	Petrol Hedge Cutters	mowers
Ride on mowers	Rotary Mowers	Rotavators	Ryobi Strimmers
Electric Garden	Petrol Garden		Cheap Garden
Shredders	<u>shredders</u>	ALKO Garden Shredders	Shredders
Garden Patio Heaters	Outdoor Patio Heaters	Gas Patio Heaters	Patio Heaters Green house
Patio Heater Covers	Garden Heaters	Greenhouse Heaters	heaters
Gas Greenhouse	Stainless Steel Patio		
<u>heaters</u>	<u>Heaters</u>	Table Top Patio Heaters	Patio Heaters UK
Grit Spreaders	Gardena Hedgecutters	Kawasaki brushcutters	Petrol Strimmers
Patio Heaters with	Christmas Gardening		
Covers	<u>Gifts</u>	Midgeater Plus	Barbecues
Cylinder Mowers			

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