Heavy-Duty GrassFlap General Parts List

Spare Parts Available Online at GrassFlap.com

Video installation guide available at Youtube.com/grassflap
WARNING: Proper cable installation and maintenance is critical to the life of the cable.

Improper cable routing will cause failure, usually within the first month of use. The first ½ inch of cable conduit (black flexible part) must be straight in line with the end fitting.

**RIDER INSTALLATION RECOMMENDATION:** Start at the flap, run the cable straight toward the left side of the mower as far as possible then make a sweeping turn toward the front of the mower and up to connect with the pedal. Loosely hang the cable to keep it out of the belts. Check for binding with the deck full up and set to all mowing heights.

**WALK-BEHIND INSTALLATION RECOMMENDATION:** Start at the flap, run the cable straight toward the left side of the mower as far as possible then make a sweeping turn toward the rear of the mower to connect with the pedal. Avoid the muffler. Loosely hang the cable to keep it out of the belts. Check for binding with the deck full up and set to all mowing heights.

**STAND-ON INSTALLATION RECOMMENDATION:** Start at the flap, run the cable straight toward the left side of the mower as far as possible then make a sweeping turn toward the rear of the mower. Route the cable past the belts to the foot deck. It may be necessary to drill holes for the cable to pass through. On Flip-up foot decks pay particular attention when setting foot deck to the travel position to avoid damaging the cable.

Areas to pay particular attention to are:

1. The transition point from the rigid threaded end to the flexible portion of the cable, especially at the pedal end. Make certain the cable is not in a bind when the deck is raised either manually or when mowing.
2. The point where cable is tied to keep it out of the belts, leave enough slack for the deck to raise and lower without straining the cable.
3. Where the cable first routes under the deck from the flap, sometimes it can get in a bind as the deck is raised and lowered.
4. Also be sure the cable is not deflected either while in use or when trailering.
5. Proper bend radius is the key to long life, a 6 inch radius is recommended for all bends.

**MAINTAINING THE CABLE**

1. Be sure the rubber boots are in place to keep dirt and water out of the cable.
HEAVY-DUTY GRASSFLAP INSTALLATION

1. **Plastic Blocker Plate**
   - Fit plastic blocker plate to discharge opening.
   - Align bottom edge and cut to length.
   - The blocker plate can be formed to fit the deck with heat.

2. **Insert Bushings**
   - Insert bushings.
   - Tip: Place bolt in bushing to tap into hole.

3. **Insert Bolt to Connect Hinge Plate to Flap Mount**
   - Insert bolt to connect hinge plate to flap mount.

4. **Assemble Spring Mount to Flap Mount**
   - Assemble spring mount to flap mount.
   - Middle bolt position recommended.

5. **Position Plastic Blocker Plate Over Discharge Opening**
   - Position plastic blocker plate over discharge opening then locate hinge assembly on deck.
   - Mark and drill mounting holes. Use mounting hardware as required to clear factory mounts.

6. **Position Deflector Angle at Top Edge of Blocker Plate**
   - Position deflector angle at top edge of blocker plate and centered on hinge plate front to back, tape leg down.
   - Notch horizontal leg as needed to clear any obstructions.
   - Attach flap spring.
   - Hint: Use a box end wrench to hook spring and pull it over the bolt.

7. **Position Blocker Plate on Opening Between the Deck and the HD Hinge**
   - Drill 9/64" pilot holes for screws to attach blocker plate.
   - Install screws one at a time.
HEAVY-DUTY GRASSFLAP INSTALLATION

8
1/4-20 THIN NUT
1/4-20 X 3" HEX BOLT
1/4" PIN
STAND-ON
WALK BEHIND
ZTR
LOCATE PEDAL ON FOOT DECK, MARK AND DRILL A HOLE FOR THE CABLE TO PASS THROUGH. RUN CABLE THROUGH CLEARANCE HOLE AND CONNECT CABLE TO PEDAL.

CABLE ROUTING: MINIMUM BEND RADIUS ON CABLE IS 6 INCHES. SMALLER BENDS WILL CAUSE PREMATURE FAILURE OF CABLE.

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ROTATE COUNTERCLOCKWISE TO DECREASE TENSION AND MAKE FLAP EASIER TO CLOSE. INCREASE TENSION TO MAKE FLAP EASIER TO OPEN.

SPRING ADJUSTMENT:
1. MANUALLY OPEN FLAP TO BALANCE POINT AS SHOWN.
2. PUSH PEDAL FULL DOWN AND RELEASE, FLAP SHOULD JUST FALL CLOSED.
3. IF IT DOES NOT FALL REDUCE THE SPRING TENSION, IF IT FALLS HARD THEN INCREASE TENSION.

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CABLE ASSEMBLY DETAIL
PEDAL OPERATION: PUSH PEDAL AND RELEASE TO CYCLE FLAP FROM CLOSED TO OPEN OR OPEN TO CLOSED. PEDAL FULL DOWN WILL HOLD FLAP IN MID POSITION. LESS PRESSURE IS USUALLY BETTER FOR SMOOTH OPERATION.

9
5/16-18 HEX BOLT
5/16 - 18 CARRIAGE BOLT
STAND-ON
WALK BEHIND
ZTR
LOCATE PEDAL AND MARK HOLES. DRILL HOLES AND MOUNT PEDAL.

13
STAND-ON
WALK BEHIND
ZTR
THE PEDAL SHOULD BE ADJUSTED SO IT BOTTOMS OUT BEFORE FULL TENSION IS APPLIED TO THE CABLE. USE THE ADJUSTMENT NUTS AT EITHER END OF THE CABLE TO ADJUST THE PEDAL HEIGHT. KEEP THE THREADED LENGTH EQUAL ON BOTH ENDS THE CABLE.

10
CENTER NUT ON THREADED PORTION
3/16" PIN
1/4" BUSHING
CABLE END DETAIL
CONNECT CABLE TO FLAP

CONTACT INFO
502-594-3546
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Instruction videos available online at www.youtube.com/user/GrassFlap and at grassflap.com
Operating the GRASS FLAP (operator controlled discharge chute)

Once the grass flap is installed your mower will be equipped with an operator controlled discharge chute (OCDC). This discharge chute has a variable adjustment from fully open to fully closed. In the closed position it will serve to keep some of the clipping material under the mower deck for a longer period of time, in order to enhance the mulching capabilities, as well as function as a safety shield. The discharge chute should ALWAYS BE IN THE CLOSED POSITION WHEN MOWING WHILE PEOPLE ARE PRESENT IN THE IMMEDIATE VINCINITY.

GRASS FLAP Control
1. Use the foot pedal to open and close the discharge chute.
2. Push and release the foot pedal to move the flap from one position to another. The same motion, push and release, controls opening and closing of the flap.
3. The flap may be held in any position between open and closed using the foot pedal.

SAFE OPERATION OF MOWING EQUIPMENT IS THE RESPONSIBILITY OF THE MOWER OPERATOR! THE GRASS FLAP WHEN CLOSED WILL REDUCE BUT NOT ELIMINATE THE RISK OF OBJECTS BEING THROWN FROM THE DISCHARGE CHUTE! BE AWARE OF SURROUNDINGS AT ALL TIMES!

WARRANTY
There are no understandings, agreements, representations, or warranties expressed or implied (including but not limited to any regarding the merchantability or fitness for a particular purpose) not specified herein, regarding equipment which is the subject of this warranty.

Owner operator Knowledge Responsibility
As a condition of the Grass Flap warranty, the owner operator(s) are fully responsible for having read, and reasonably understanding the proper operation and care of the Grass Flap unit before attempting to operate the unit.

Product warranty if for a period of 90 days from date of purchase. Warranty covers defects in workmanship and materials ONLY.

Limitations of warranty
Proof of purchase including purchase date is required for claim validation. It is the discretion of the manufacture as to replace or repair a warranted product.

All warranty work must be performed by an authorized Grass Flap servicing dealer ONLY.

This Warranty only covers Grass Flap complete units that have been maintained and operated under conditions considered normal for turf equipment.

Expressly not covered
a) Damage, defects or deterioration due to normal use, wear, or exposure to the elements.
b) Damage or defects resulting from misuse, neglect, alteration, accident or negligence.
c) Damage or defects resulting from repairs by person(s) other than the manufacturer or a manufacturer’s representative.
d) Repair or replacements resulting from operation of Grass Flap equipment that has been modified, or effected with respect to the intended use of the product.
e) Repair or replacement as a result of Grass Flap equipment operated in a manner which is not in accord with the instructions as specified in the operator section or other instructions provided by Grass Flap.

Grass Flap is not responsible for (nor limited to the following)
f) Travel time, overtime, after hours time or other extraordinary repair charges or charges relating to repair or replacements outside of normal business hours at the place of business of the authorized Grass Flap service dealer.
g) Rental of like or similar equipment during the time of any warranty, or replacement work.
h) Loss, cost or expense relating to transportation of Grass Flap equipment from location of owner or location where used by owner to or from any authorized Grass Flap dealer.
i) Any claims for lost revenue, lost profit or additional cost or expenses incurred as a result of a claim of breach of warranty.
j) Loss or damage to person or property other than that covered by the terms of this warranty.
k) Losses or damage related to equipment the Grass Flap is mounted on.
l) Any telephone, telegram, travel charges, or attorney’s fees.

Disclaimer
Any and all statements or representations made by seller of this equipment, including those set forth in any sales literature or made orally by and sales representative are superseded by the terms of this warranty. There are no representations or warranties, which have been authorized and provided to the buyer of Grass Flap equipment, other than as set forth in this warranty. Any affirmation of fact or promise made by Grass Flap or any of its representatives to the buyer which relates to the goods that are the subject of this warranty shall not be regarded as part of the basis of the bargain and shall not be deemed to create and express warranty that such goods shall conform to the affirmation or promise.
Safety and Warnings

Thrown objects
Mowing with power equipment involves certain risk including but not limited to thrown objects. Be sure to clean up the area to be mowed and remove objects that could be thrown by the blades BEFORE you start mowing.

Once the grass flap is installed your mower will be equipped with an operator controlled discharge chute (OCDC). Do not operate the mower if the OCDC is not properly attached. This discharge chute has a variable adjustment from fully open to fully closed. In the closed position it will serve to keep some of the clippings material under the mower deck for a longer period of time, in order to enhance the mulching capabilities, as well as function as a safety shield. The discharge chute should ALWAYS BE IN THE CLOSED POSITION WHEN MOWING WHILE PEOPLE ARE PRESENT IN THE IMMEDIATE VICINITY.

Do not allow anyone in the area while mowing. If someone does enter the area, stop mowing immediately until they leave.

Moving parts
The mower deck has spinning mower blades that can amputate hands and feet. Do not allow anyone near the mower while it is running! Keep safety devices (guards, shields, and switches) in place and working.

Children
Tragic accidents can occur with children. Do not allow then anywhere near the area of operation. Children are often attracted to the unit and mowing activity. Never assume that children will remain where you last sat them. If there is a risk that children may enter the area where you are mowing, have another responsible adult watch them.

General Safety Precautions

1. Do not mow when children, pets, or others are present. The operator is responsible for the safety of others within the vicinity of the operation of your mower.
2. Keep hands, feet, and clothing away from rotating blades or other rotating parts while the engine is running.
3. Do not attempt to open or close the flap at the discharge chute while the engine is running, doing so could result in personal injury including loss of hands, feet or death.
4. Clear work area of objects (wire, rocks, and debris of any kind) that can be picked up and thrown by the mower, and possibly damage the equipment or cause personal injury to the operator.
5. Do not attempt to adjust or repair the mower deck, grass flap, or related components while the engine is running. You must disengage power to attachments, disengage PTO, set parking brake, set steering controls to neutral, shut off the engine, and remove the key before making any repairs or adjustments or attempting any of the following tasks:
   a. Flap connecting linkage adjustment
   b. Flap removal or cleaning
   c. Unclogging the chute
   Failure to comply can result in personal injury, loss of limb, or death.
6. Keep all nuts, bolts, screws, and other fasteners in place and properly secured to be sure equipment is in safe working condition.
7. Keep equipment and attachments in good operating condition and keep safety devices, such as guards, shields and covers in place and working.
8. Do not operate the mower or attachments if any guards are missing or not functioning.
9. Stop the mower and attachments, secure the mower, and inspect for damage after striking a foreign object. Repair any damage before restarting and operating the equipment.
10. Use personal protective equipment when operating mower of performing maintenance, such as (but not limited to) protective for eyes, feet, and head. Do not operate or service the mower when barefoot or wearing open-toed sandals.
11. Obey all safety decals.