



60"

Mid Mount Mower

**TRACTOR IMPLEMENT
OWNER'S OPERATOR SERVICE MANUAL**

For additional information, please see us at
www.badboycountry.com

TO THE DEALER

Assembly, initial lubrication, and verification of proper installation of this product is the responsibility of the Bad Boy dealer. Be familiar with the safety rules and instructions found in this manual. Ensure all items on the Dealer's Pre-Delivery and Delivery Checklists in this manual are completed before releasing the cutter to the new owner.

TO THE OWNER

Note: Anyone who operates your Bad Boy must first read this owners manual. Although this implement has been engineered with safety and reliability as the foremost concerns, there is no substitute for an informed and cautious operator. This manual should be viewed as a part of the equipment itself. If this manual is lost, destroyed, or otherwise rendered unreadable, obtain a duplicate immediately. A duplicate can be obtained online at www.badboymowers.com. As with all machinery, this cutter requires periodic maintenance and should be kept free of debris buildup. Proper care will ensure many years of dependable service. Replacement parts should only be obtained from your Bad Boy dealer. Failure to utilize approved parts can be dangerous and will void the warranty.

Three terms are utilized throughout this manual and are present on the mower's safety decals:

DANGER, WARNING, and CAUTION.

- DANGER:** Indicates a hazardous situation that, if not avoided will result in death or serious injury.
WARNING: Indicates a hazardous situation that, if not avoided, could result in death or serious injury.
CAUTION: Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

In order to better draw attention to these important safety messages, the above terms are accompanied with the following pictorial:



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SPECIFICATIONS 60'' DECK

Category	Mid Mount Mower
Gear Box	BB_GB_03642
Warranty	2 Year
Weight	450 lbs
Total Width (With Chute)	73 ½''
Cut Range	1''-5''
Tractor Mid PTO RPM	2000 RPM
Oil and Fluid	EP 80W-90 500ml / 16.9 oz
Drive Type	Gearbox Over Belt
PTO Driveline Protection	Shear Pin
Belt Tension	40-50lbs

SAFETY RULES/INFORMATION

NOTE: Safety instructions are important! While these instructions may seem lengthy or redundant, they are presented for your safety.

- Safety alerts and symbols will appear throughout the manual to indicate potential hazards. When you see any of these symbols, be aware and read the instructions and or cautions carefully. Accidents can occur when vital information is unknown or ignored.

SAFETY WORDS

- The meaning of the different signal words as defined in this standard may be explained in collateral materials. The following artwork may be used for this purpose.



DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury



WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury



CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury



NOTICE is used to address practices not related to physical injury



Safety instruction (or equivalent) signs indicate specific safety-related instructions or procedures

SAFETY ALERT SYMBOLS



-Indicates the DANGER signal word.



-Indicates the WARNING signal word.



-Indicates the CAUTION signal word.



- Can indicate DANGER, WARNING, or CAUTION signal words

SAFETY RULES

Note: (Safety instructions are important!! While these instructions may seem lengthy or redundant, they are presented for your safety)

TRAINING



- Almost all accidents arising from the use of equipment such as this that has resulted in injury or death would have been avoided had instructions such as these been adhered to.
- If you do not understand any part of this manual, contact your dealer for assistance.
- Dangerous situations can arise quickly. Know your controls and how to stop the engine and attachment in an emergency. Fractions of a second can be extremely important.
- Do not allow anyone to operate the equipment without first requiring them to read this manual and giving proper instruction.
- Never allow children (< 16 years of age) or untrained persons to operate the equipment.

PREPARATION



- Check that all hardware is properly installed.
- Loose clothing can become caught in moving parts. Entanglement with the rotating PTO shaft is the #1 cause of death and serious injury with equipment such as this. Always wear relatively tight and belted clothing to reduce this risk.
- Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, hearing, and head. Wear a respirator or filter mask where appropriate.
- Make sure the cutter is properly secured, adjusted, lubricated, and in good operating condition.
- Make sure spring-activated locking pin slides freely and is seated firmly in tractor PTO spline groove.
- Connect PTO drive line directly to power unit PTO shaft. Never use adapter sleeves or adapter shafts. Adapters can cause drive-line failures. (Engine must be off when attaching or working on PTO.)
- Before starting power unit, check drive-line guards for damage. Do not operate without replacing any damaged guards. Ensure the guards rotate freely on the drive-line. If they do not, repair or replace bearings before operating the cutter.
- Tractor must be equipped with Roll-Over Protective Structure (ROPS) or ROPS cab and seat belt. ALWAYS keep seat belt securely fastened. Falling off the tractor can, and does, result in death. Keep fold-able ROPS system in 'locked up' position at all times.
- Inspect guards before use. Replace if damaged. DO NOT OPERATE the Mower without guards in place.
- Accumulation of debris can present hazards. Remove accumulated debris from the Deck and Tractor before use.
- Make sure all safety decals are installed and free from damage. Replace if damaged.
- A minimum of 20% of tractor and equipment weight must be on the tractor front wheels when attachments are in transport position. Without this weight, front tractor wheels could raise up resulting in loss of steering. The weight may be attained with front wheel weights, ballast in tires.

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- Inspect and clear the area of stones, branches, or other hard objects that might be thrown, causing injury or damage.

OPERATION



- Do not allow bystanders in the area when operating, attaching, removing, assembling, or servicing the cutter.
 - This machine is equipped with front and rear guards. DO NOT operate the machine without the guards in place.
 - Never direct discharge toward people, animals, or property.
 - Do not operate or transport equipment while under the influence of alcohol or drugs.
 - Operate only in daylight or good artificial light.
 - Keep hands, feet, hair, and clothing away from equipment while engine is running. Stay clear of all moving parts.
 - Always comply with all state and local lighting and marking requirements.
 - **NEVER ALLOW RIDERS ON POWER UNIT OR IMPLEMENT!**
 - Always sit in the tractor seat when operating controls or starting engine. Securely fasten seat belt, place transmission in neutral, engage brake, and ensure all other controls are disengaged before starting tractor engine.
 - Operate tractor (mid) PTO at 2000 RPM. Do not exceed 2000 RPM.
 - Do not operate PTO during transport.
 - Look down and to the rear and make sure area is clear of people, animals, property, or foreign objects before operating in reverse. Children often do not understand the severity of the potential
-
- Do not operate or transport on steep slopes.
 - Do not stop, start, or change directions suddenly on slopes.
 - Use extreme care and reduce ground speed on slopes and rough terrain.
 - Watch for hidden hazards on the terrain during operation.
 - Stop tractor unit and equipment immediately upon striking an obstruction. Turn off engine, remove key, inspect, and repair any damage before operation resumes.
 - Leak down or failure of mechanical or hydraulic system can cause equipment to drop.
 - Make certain all movement of equipment components have stopped before exiting the tractor.

MAINTENANCE



- Before performing any service or maintenance, disconnect drive-line from tractor PTO.
- Before working underneath the equipment, disconnect drive-line, raise Mower, and block Mower securely. Hydraulic system leak down and failure of mechanical or hydraulic system can cause equipment to drop.

- Do not allow bystanders in the area when operating, attaching, removing, assembling, or servicing equipment.
- Keep all persons away from operator control area while performing adjustments, service, or maintenance.
- Do not modify or alter (or permit anyone else to modify or alter) the equipment or any of its components in any way.
- Always wear relatively tight and belted clothing to avoid getting caught in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, hearing, and head.
- Make certain all movement of equipment components have stopped before approaching for service.
- Frequently check blades. They should be sharp, free of nicks and cracks, and securely fastened.
- Do not handle blades with bare hands. Always use gloves. Careless or improper handling may result in serious injury.
- Your dealer can supply genuine replacement blades. Substitute blades may not meet original equipment specifications and may be dangerous.

STORAGE



- Keep children and bystanders away from storage area.
- Disconnect mower driveshaft and secure up and off the ground. Raise mower with 3-point hitch. Place blocks under mower. Lower mower onto blocks. Disconnect mower from tractor and carefully drive tractor off of mower.

CHILDREN



Extremely tragic accidents can, and do, occur if the operator is not continually alert to the presence of children. Children are often attracted to machinery and the mowing activity. NEVER assume that children will remain where you last saw them.

- Keep children out of the mowing area and under the watchful care of responsible adult other than the operator.
- As this machine is capable of, and used for, cutting relatively tall grass, always be vigilant in monitoring the field ahead. Accidents in which children were obscured by tall grass and not easily seen by the operator have occurred with equipment of this type. The results are often life shattering for all involved. Be constantly aware during operation!
- Immediately turn the equipment off if a child enters the area.
- Never allow children to operate the equipment (<16 years of age).
- Use extra care when approaching blind corners, shrubs, trees, or other objects that may block your view of a child.

GENERAL INFORMATION



The purpose of this manual is to assist you in operating and maintaining your implement. Read it carefully. It furnishes information and instructions that will help you achieve years of dependable performance. These instructions are the product of extensive field experience, engineering data, accident reports, and statistical data. Although some information may be general in nature due to unknown and varying operating conditions, through experience and adherence to these instructions, you should be able to develop sound operating procedures suitable to your particular situation.

The illustrations and data used in this manual were current at the time of printing, but due to possible running changes, your machine may vary slightly in detail. Bad Boy reserves the right to redesign and change the machines as necessary without notification.

Throughout this manual, references are made to right and left sides of the equipment. These directions are determined by standing behind the equipment. Also, blade rotation is clockwise. This direction is as viewed from the top of the cutter.

OPERATION

The operator is responsible for the safe operation of the mower. The operator must be properly trained. Operators should be familiar with the mower, the tractor utilized, and all safety practices before starting operation.

This mower is designed for grass, weeds. Recommended mowing speed for most conditions is between 2-5 mph.

- Move slowly into material. Adjust tractor ground speed to provide a clean cut without lugging the tractor engine. Proper ground speed will depend on the terrain and the material's height, type, density, and moisture content. The operator will be able to determine appropriate ground speeds for different conditions. Normal ground speed ranges from between 2 and 5 mph.
- Under certain conditions, the tractor tires may push the grass down. This can result in an uneven cut. When this occurs, reduce your ground speed, but maintain the PTO at 2000 RPM. Lowering your travel speed will allow the grass more time to rebound.



- **Disconnect mower driveshaft and secure up off the ground. Raise mower with 3-point hitch. Place blocks under mower. Slowly lower the mower onto the blocks. Disconnect the mower from the tractor 3-point hitch and carefully drive tractor off of mower.**
- **Before leaving the area, check to ensure the mower is stable.**
- **Keep children and bystanders away from the storage area.**

LUBRICATION

CAUTION

1. Do not allow excess grease to collect on or around parts, particularly when operating in sandy areas.
2. Use a spray lithium grease for all locations unless otherwise noted.
3. Equipment is shipped with gear oil. Gearbox needs 16.9 oz. of SAE gear oil; 80W-90 is recommended for all temperatures. The oil level will be at the same level as the horizontal input shaft when filled properly. The gearbox has a side plug that is designed to allow for oil level checks. If oil runs out of the hole when the plug is removed, the oil level is sufficient. First oil change at 50 hours then every 1000 hours or one year whichever comes first.

DRIVELINE SHEAR-BOLT REPLACEMENT

- Always use a 5/16" x 2 1/2" SAE grade 5 bolt as a replacement part. Using a hardened bolt (such as grade 8) may result in damage to driveline or gearbox.
1. Slide the driveline bell shield (covers the U-joint of the PTO shaft and input shaft of gearbox) back along the driveline guard. This is accomplished by depressing the 3 tabs (just inside the holes provided) at the base of the bell and sliding the bell shield back over the cylindrical guard.
 2. Remove the damaged shear bolt.
 3. Rotate the driveline to align the holes in the yoke with the hole in the input shaft of the gearbox. Install shear bolt and secure with nylock nut.
 4. Ensure that the retaining ring is set properly in the groove on the input shaft of the gearbox.
 5. Slide the bell shield back over the three tabs at its base, ensuring that the tabs snap back into position.

SHIELDING REPAIR



Rubber Shielding

Inspect rubber shielding each day of operation and replace if bent, cracked or broken.

CLEANING

After Each Use

- Remove large debris (clumps of dirt, grass, crop residue, etc.) from machine.
- Inspect machine and replace worn or damaged parts.
- Replace any missing, damaged, or otherwise unreadable safety decals.

Periodically or Before Extended Storage

- Clean large debris (clumps of dirt, grass, crop residue, etc.) from machine.
- Remove the remainder using a low-pressure water spray.
 1. Take extra care when spraying near safety decals. The water spray could penetrate under the decal and peel it off.
 2. Be careful when spraying near any paint damage. The spray could remove more paint.

- Inspect the mower and replace any worn or damaged parts. After an extended period of non- use, any damage to the mower may be overlooked, or forgotten, when the machine is again put into service.
- Sand down scratches and the edges of areas of missing paint and coat with Bad Boy touch- up paint.
- Replace any missing, damaged, or otherwise unreadable decals.

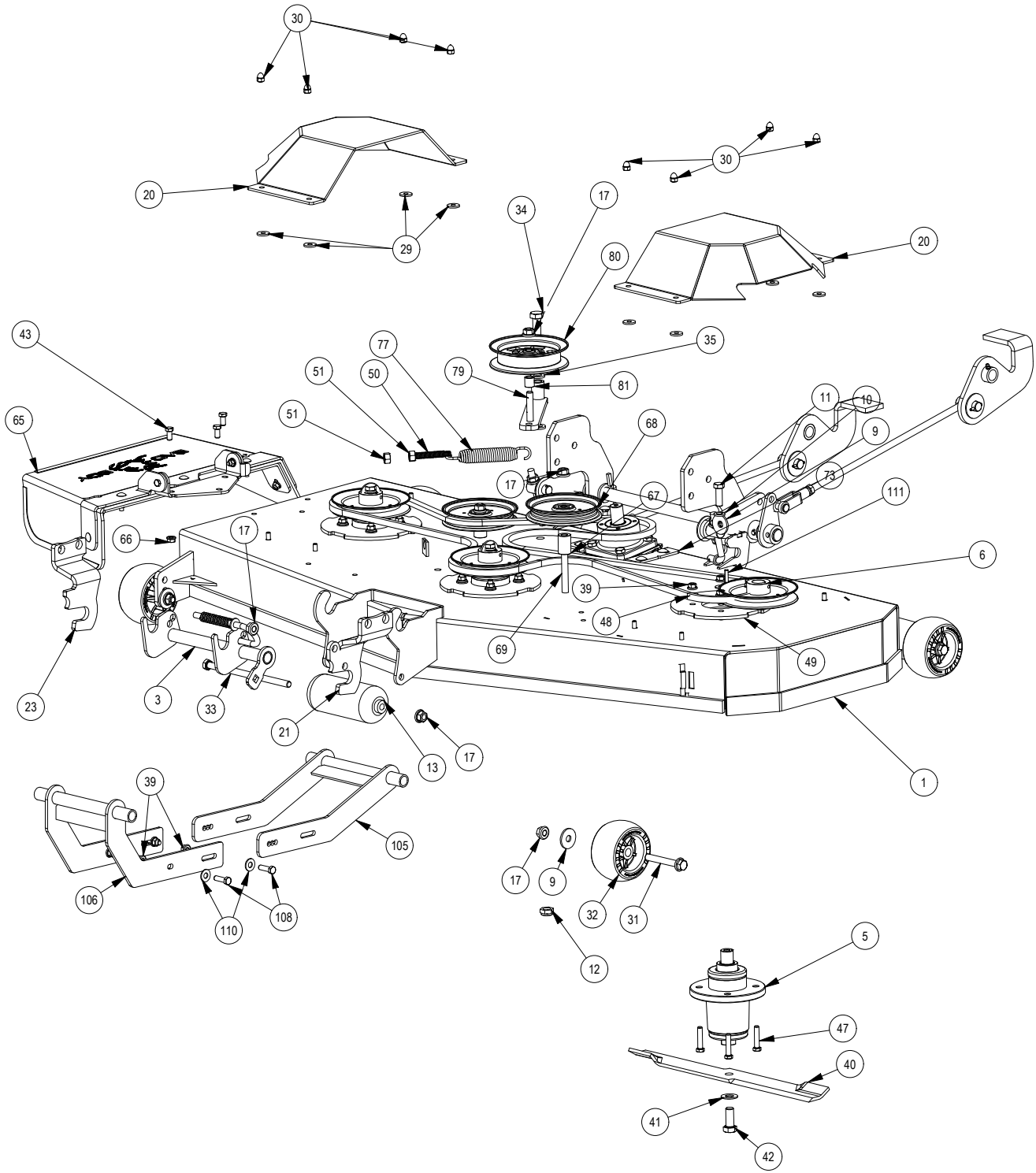
TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
Grass is cut lower in the center of the path than at the edge.	Height of cutter is too low at rear or front.	Adjust cutter height and attitude so that cutter rear and front are within ½" of same height.
Streaking conditions in path.	Conditions too wet for mowing.	Allow grass to dry before mowing.
	Blades unable to cut grass pressed flat by tractor tires.	Slow ground speed of tractor but keep PTO running at 2000 RPM.
	Dull Blades	Sharpen or replace blades.
Material discharges from cutter unevenly; material bunches along path.	Material too high and dense.	Reduce ground speed (maintaining 2000 RPM tractor PTO) or make two passes. Raise cutter for the first pass; then lower cutter to desired height and cut perpendicular to the first passes.
	Grass wet.	Allow grass to dry before mowing.
	Rear of mower too low, trapping material under cutter.	Adjust mower height and attitude.
mower no longer cuts at all (Shear bolt model).	Shear-bolt has sheared.	Install new shear-bolt.

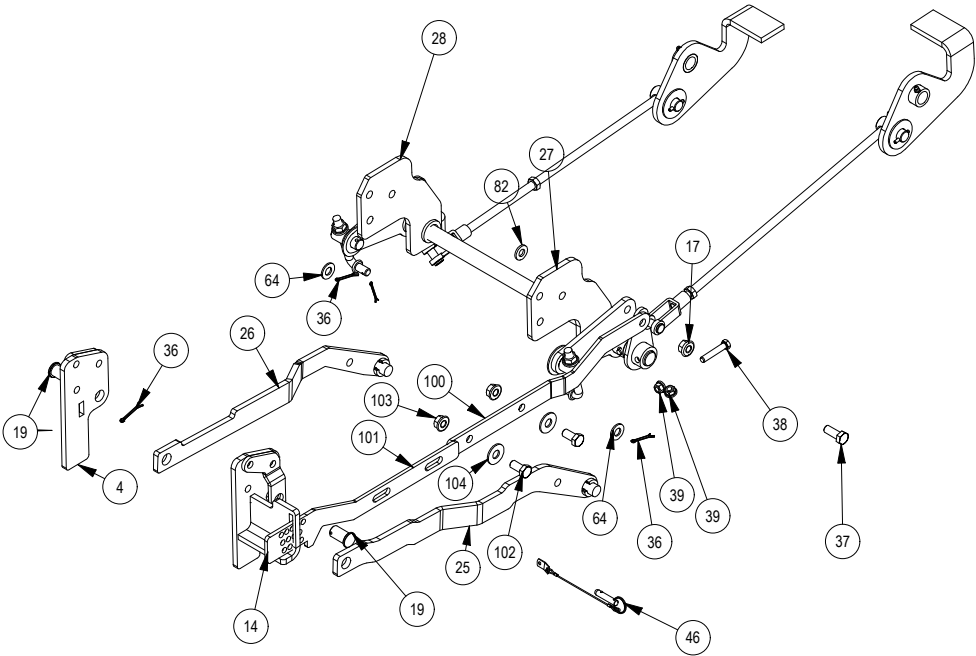
PARTS SECTION:

Parts List				Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION	ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	360-8000-00	60 Tractor Deck weldment	45	1	801-0011-00	Split-Tapered Bushing-Bore Pulley
3	1	339-0188-07	front hook bar weldment	46	1	801-0012-00	9497518-8 Stainless Steel Ring-Grip Quick-Release Pin
4	1	339-0174-00	Tractor Deck Stop and Hanger Weldment RH	47	12	018-0075-00	3/8-16 X 1-3/4 HEX C/S (GR.5) ZC
5	3	037-4000-00	OUTLAW SPINDLE ASSEMBLY	48	12	019-8044-00	5/16 USS FLAT WASHER (7/8 OD) ZINC
6	3	033-6004-00	6 1/4" Drive Pulley	49	3	026-0025-00	Deck Spindle Support Plate
7	1	042-6030-00	1/4"x1 Key	50	1	018-2004-50	All Thread-Pump Idler Tensioner
9	7	019-6020-00	Beveled Washer	51	2	013-7018-00	1/2-13 HEX NUT ZINC
10	3	019-5007-00	1/2 SPLIT LOCKWASHER (GR.8) ZINC/YELLOW	64	2	019-5702-00	1/2 SAE FLAT WASHER (1-1/16" OD) GR.8 ZINC YELLOW
11	3	018-6019-00	1/2"-20 x 1 1/2 - Grade 5 Fine Thread Bolt	65	1	210-6005-98	Discharge Chute Assembly
12	1	013-5301-00	5/8" Nylock (1/2 Jam)	66	3	013-5201-00	3/8-16 HEX SERRATED FLANGE NUT HARD/ZINC
13	1	822-2055-00	3in deck roller	67	2	025-5338-00	.502 ID X .750 OD X 1.500 Long Spacer
14	1	339-0175-00	Tractor Deck Stop and Hanger Weldment	68	2	033-7201-25	5-3/4 Idler Pulley-Capitol Stampings
17	14	013-8050-00	1/2-13 NYLON INSERT FLANGE LOCKNUT ZINC	69	2	018-2018-00	1/2-13 X 3-1/2 HEX FLANGE BOLT (GR.8) ZINC
19	2	801-0005-00	Tractor Deck Lift pin	71	1	041-6027-00	Belt
20	2	314-0030-07	60 Tractor Deck Pulley covers	72	1	018-0104-00	5/16-18 X 2-1/4 HEX CAP SCREW (GR.2) ZINC
21	1	339-0162-00	front pull bar hanger	73	1	339-0164-00	Gearbox Mounting BKT
22	1	350-0036-00	Gear Box_BB_GB.03642	75	4	018-5044-00	3/8-16 X 1 CARRIAGE BOLT (GR.5) ZINC
23	1	339-0161-00	front pull bar hanger LH	76	6	019-5037-00	3/8 SPLIT LOCKWASHER ZINC
24	1	350-0038-00	PTO sp24_asm	77	1	034-2020-00	Deck Idler Spring
25	1	339-0199-00	Lift Bar weldment LH	78	1	013-9005-00	5/16-18 Nylock Jam Nut
26	1	339-0200-00	Lift Bar weldment RH	79	1	039-6945-00	Deck Idler
27	1	339-0169-00	Lift Bar Hanger weldment LH	80	1	033-8050-00	5" Idler Pully
28	1	339-0168-00	Lift Bar Hanger Weldment RH	81	1	025-5203-00	.51 ID X .75 OD X .75 LGTH SOLID SPACER ZINC
29	8	019-6050-00	.360 ID X .983 OD X .120 THICK FLAT WASHER NYLON BLACK	82	1	019-8054-00	.505 ID X 1.000 OD X .125 THICK FLAT WASHER NYLON
30	8	013-0004-00	5/16-18 ACORN NUT HIGH-CROWN ZC	83	1	091-0421-00	60" Mid Mount Mower Belt Route Decal
31	4	018-0010-00	1/2-13 X 90MM HEX FLANGE BOLT W/SHOULDER (GR.8) ZINC	84	3	091-3012-LE	Danger Decal for Black Parts
32	4	022-1000-00	Deck Wheel	85	1	091-9003-00	Deck Height for Tractor Deck
33	1	018-7010-00	1/2-13 X 9 HEX CAP SCREW (GR.5) ZINC	86	1	091-4063-00	Flying Bulldog Front Bumper Decal
34	1	018-5311-00	5/8-11 X 4 HEX CAP SCREW (GR.8) ZINC YELLOW	87	1	091-0905-18	2018 60" Deck Decal
35	2	019-6017-00	.635 ID X 1.120 OD X .140 THICK FLAT WASHER NYLON	100	1	339-0212-00	Tractor Deck indicator rod Rear
36	4	020-7022-00	1/8 X 1-1/2 COTTER PIN ZINC	101	1	339-0211-00	Tractor Deck indicator rod Front
37	1	018-2080-00	1/2-13 X 1-1/4 HEX CAP SCREW (GR.5) ZINC	102	2	018-2030-00	1/2-13 X 1 HEX CAP SCREW (GR.5) ZINC
38	3	018-3000-00	3/8-16 X 2 HEX CAP SCREW (GR.5) ZINC	103	2	013-5300-00	1/2-13 HEX SERRATED FLANGE NUT HARD/ZINC
39	23	013-5202-00	3/8-16 NYLON INSERT FLANGE LOCKNUT (GR.F) ZINC	104	2	019-2040-00	1/2 F/W USS (1-3/8" OD) ZINCC
40	3	038-6060-00_OLD2	60" High Lift Fusion Blade	105	1	339-0292-07	Pull Bar Weldment Rear
41	3	019-0009-00	5/8" Flat Washer SAE Spec Grade 8	106	1	339-0289-07	Pull Bar Weldment Front
42	3	018-6020-00	5/8-18 X 1-1/2 HEX CAP SCREW (GR.8) ZINC YELLOW	108	4	018-5040-00	3/8-16 X 1-1/4 HEX CAP SCREW (GR.5) ZINC
43	9	018-5250-00	3/8-16 X 3/4 HEX CAP SCREW (GR.5) ZINC	110	4	019-5029-00	3/8 FLAT WASHER USS (1" OD) ZINC
44	1	801-0010-00	Quick-Disconnect Bushing	111	3	042-6030-00_Old1	1/4" x 1" Key

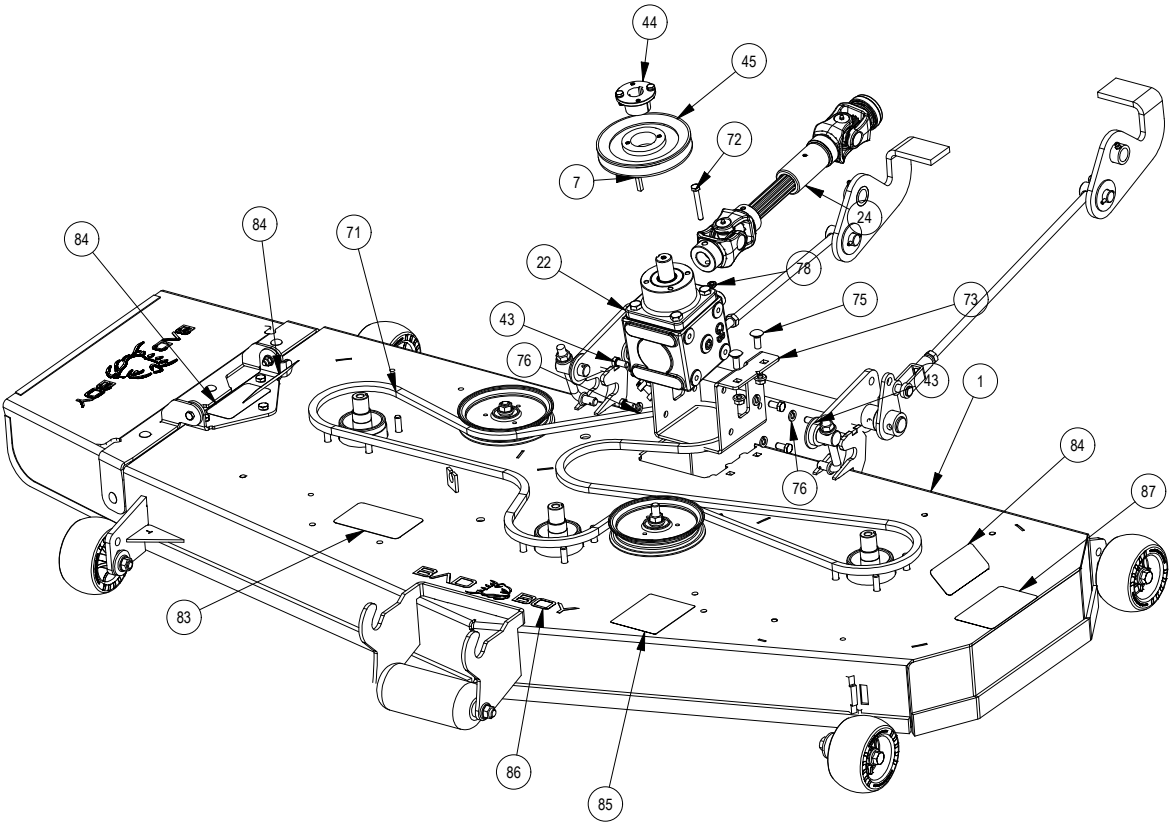
PARTS SECTION: Mid Mount Mower Deck



PARTS SECTION: 60" Mid Mount Mower



PARTS SECTION: Mid Mount Gear Box



INSTALLATION INSTRUCTIONS

Please Read Disclaimer

Please read all instructions before beginning installation. These guidelines are provided in good faith to help prevent any problems caused by errors in installation. The manufacturer of this product shall not be held responsible for installation actions taken or not taken. There are many details of installation that are assumed to be general construction knowledge to experienced installers; which are not included in these instructions. These installation guidelines are intended to be strictly recommendations and are not to serve as a step-by-step, fail-safe installation checklist. Selection of an experienced installer is the sole responsibility of the project owner and architect.

Protek Systems, Inc. does not accept any responsibility for job failure resulting from or associated with improper site environmental conditions and installation failure due to expansion contraction issues.

NOTE: Double capital letters (i.e. AA, DD) are referring to the labeled hardware items included in the hardware skin package.



A. Install the mid deck hanging brackets.

1. Locate the hole positions on the tractor frame where the brackets will be mounted. (Figure 1A) depicts the right side of the tractor. Retain the factory bolt circled, to be used in the next step. (Figure 2A) depicts the left side of the tractor.

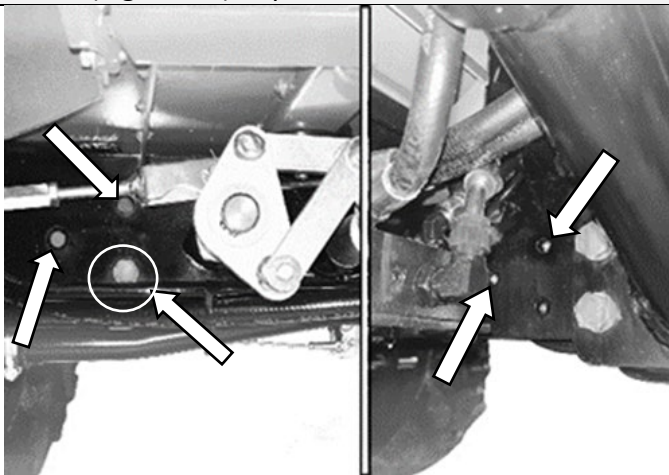


Figure 1A

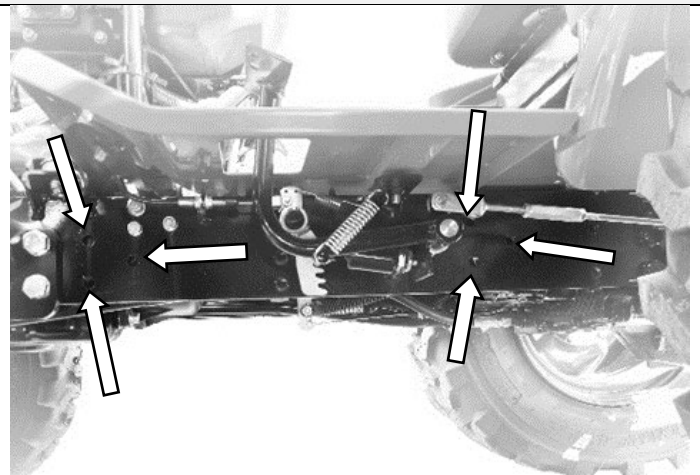


Figure 2A

(Section A. continued)

2. Use bolt BB and washer AA (one each) to install the Lift Bar Hangers as indicated in (figure 3A). Torque to 55 ft-lb.
3. Re-install the bolt and nut previously removed (Figure 1A) along with washer AA to install the Lift Bar Hanger RH as indicated in (Figure 4A). Torque to 55 ft-lb

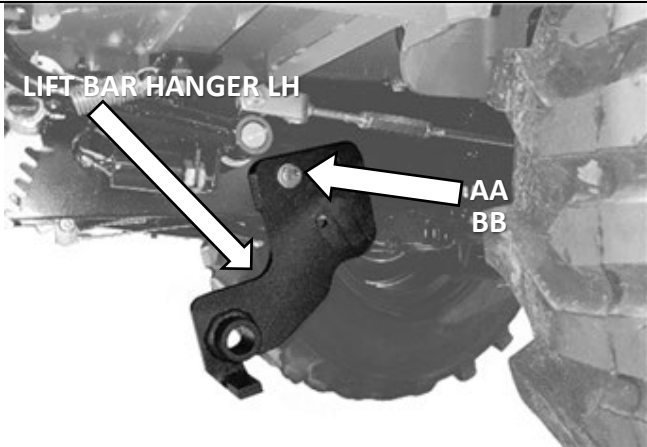


Figure 3A

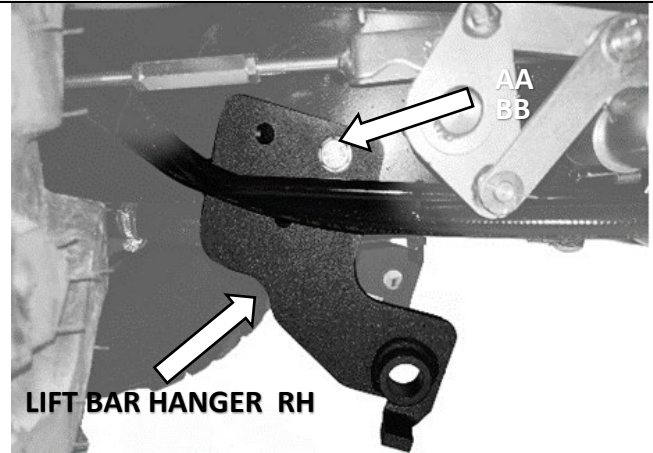


Figure 4A

4. Insert the Tractor Deck Lift Bar into both bracket bushings (figure 5A).
5. Once the Lift Bar is secure, roll the assembly up and install the remaining bolts BB and nuts CC (figure 6A). Torque to 55 ft-lb.

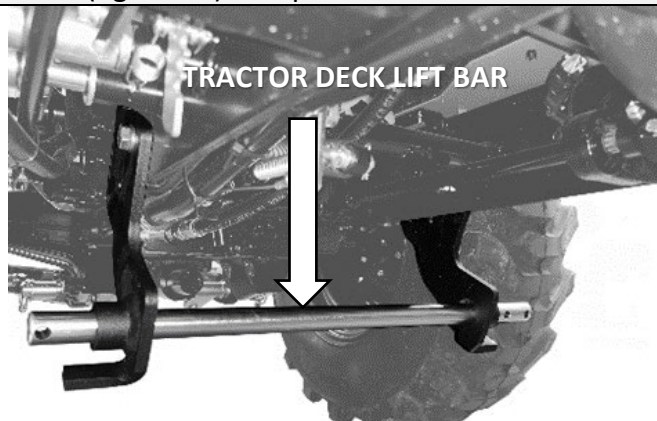


Figure 5A

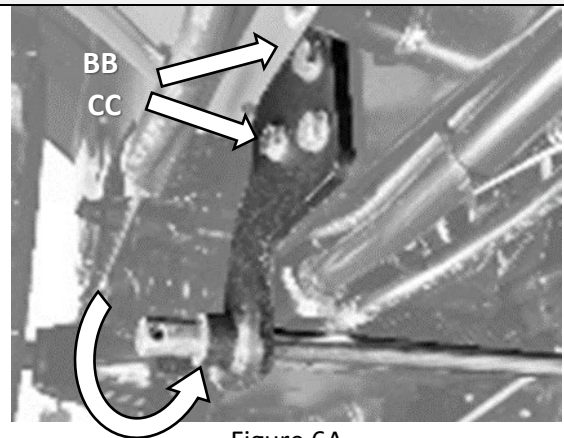


Figure 6A

6. Install the Mid Drag Link LH and the Mid Drag Link RH as indicated (Figures 7A & 8A). Align the corresponding holes and secure both ends using bolts DD and nuts EE. Torque to 70 in-lb.

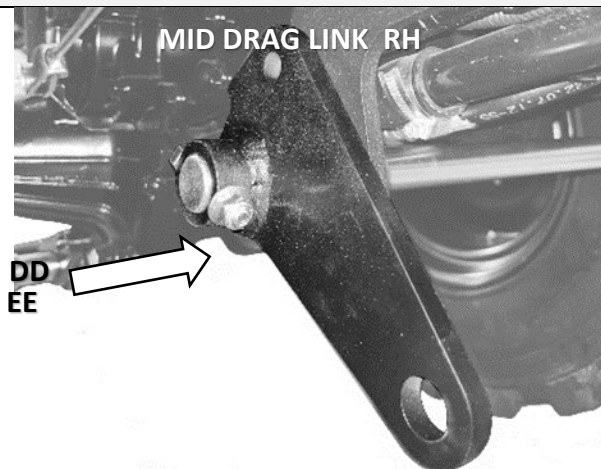


Figure 7A

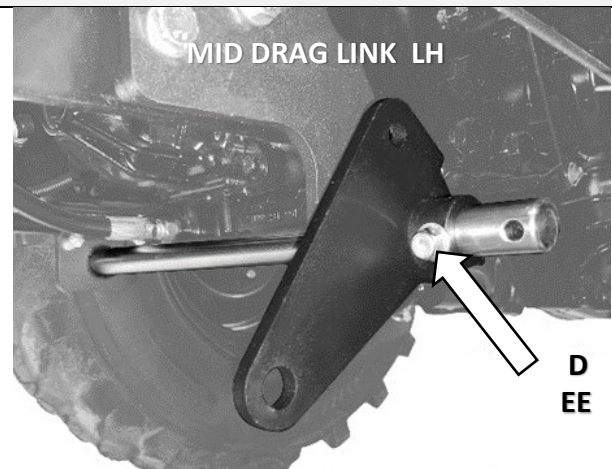


Figure 8A

(Section A. continued)

7. Install the Deck Indicator. Secure the bracket using bolt DD and nut EE as indicated, (Figure 9A). Torque to 55 ft-lb.

DECK INDICATOR

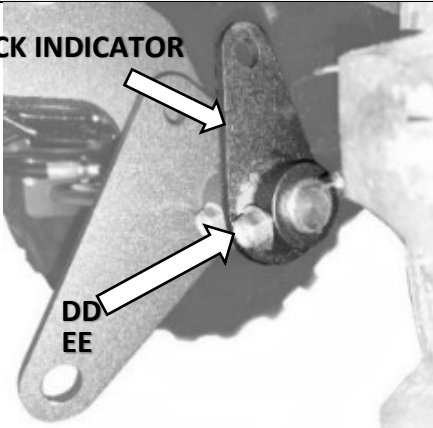


Figure 9A

8. Install the Tractor Deck Stop and Hanger LH using the bolts BB and washers AA, (Figure 10A). Torque to 55 ft-lb.
9. Install the Tractor Deck Stop and Hanger RH using the bolts BB and washers AA, (Figure 11A). Torque to 55 ft-lb.

DECK STOP AND HANGER LH

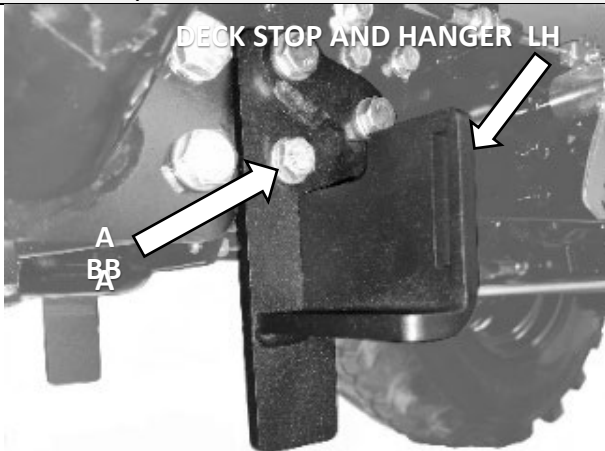


Figure 10A

**AA
BB**

DECK STOP HANGER RH

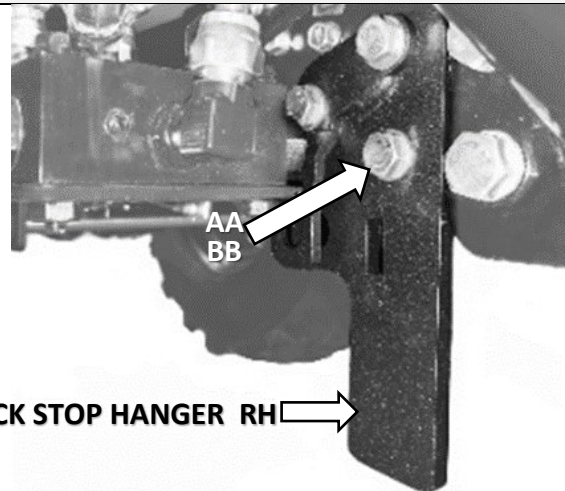


Figure 11A

B. Install the front and rear mounting brackets along with the Tractor Deck Indicator Rod.

1. Locate and remove the two Spacers, Lynch Pins, and Flat Washers on the lower lift arms (Figure 1B). Retain the Lynch Pins and Flat Washers to be used in the next step.
2. Mount the Rear Drag Links in place of the Spacers previously removed (Figure 2B). Install both sides.

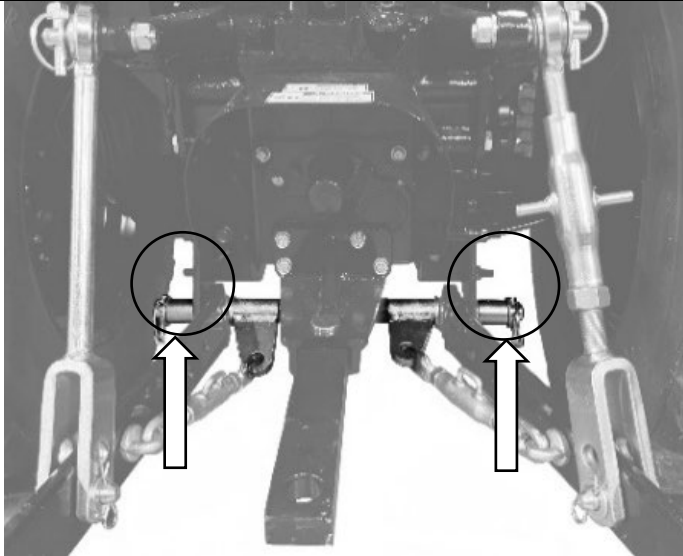


Figure 1B

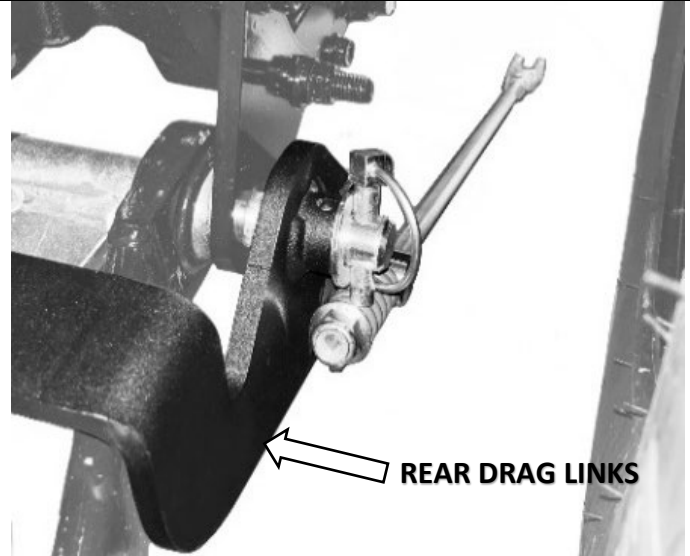


Figure 2B

3. Attach the Deck Pull Rods to the Mid Drag Links as shown (Figure 3B). Install both sides.

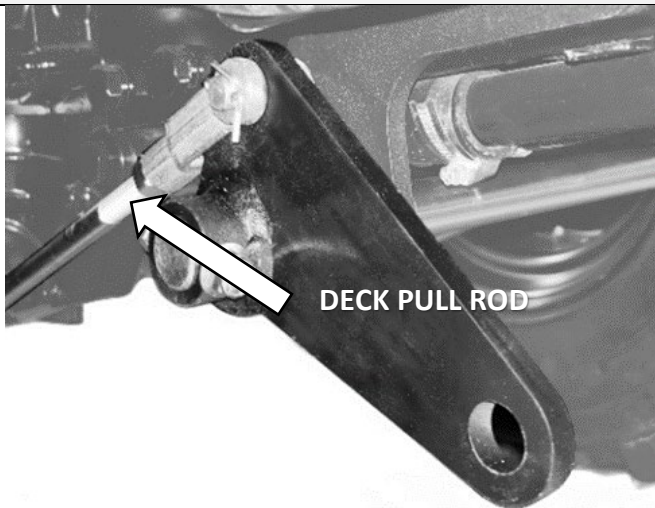


Figure 3B

(Section B. continued)

4. On both sides of the tractor frame, remove and retain the two bottom bolts indicated (Figure 4B).
5. Install the Front Pull Bar Hangers on the inside of the tractor frame. Align the hanger holes with the bottom holes on the tractor frame and secure them using the bolts and nuts removed in the previous step. The J-Bolt Pin will be installed on the left side of the tractor (figure 5B). Leave the J-Bolt Pin in the “unlocked” position. Torque to 75 ft-lb.

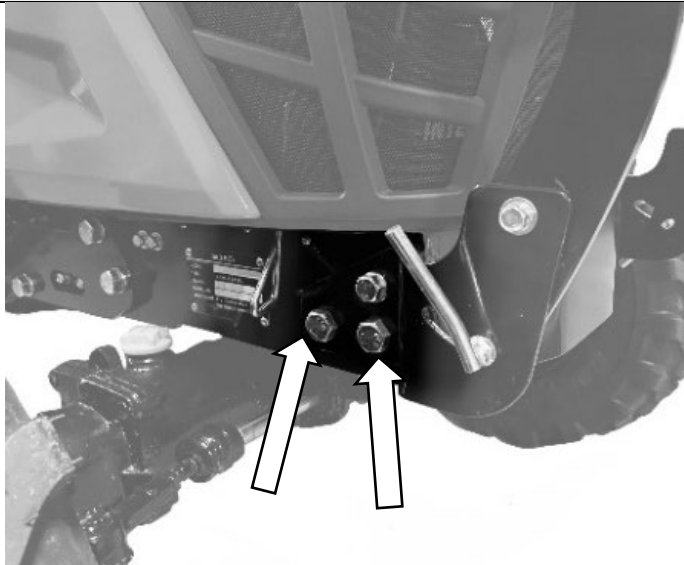


Figure 4B

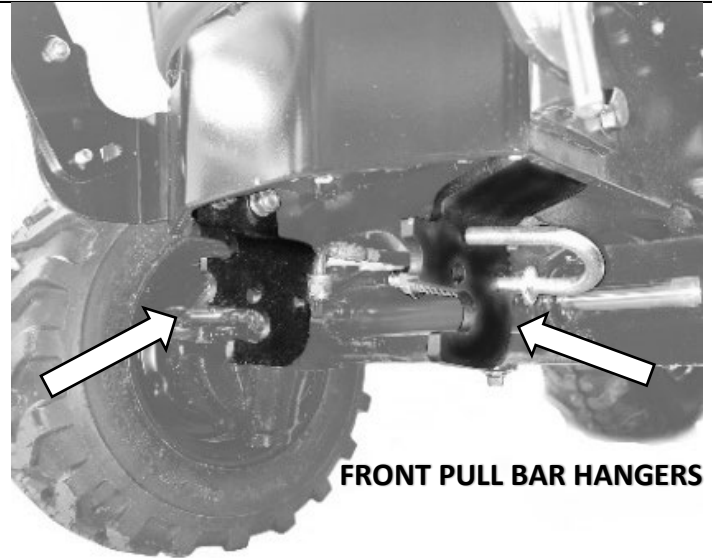


Figure 5B

6. Insert the front portion of the Tractor Indicator Rod into the slot of the Tractor Deck Stop as shown (Figure 7B).
7. Use bolt FF and washer HH to attach the rear portion to the Deck Indicator as shown (Figure 8B). Tighten the nut enough to be snug, but loose enough to pivot. Torque to 105 in-lb.

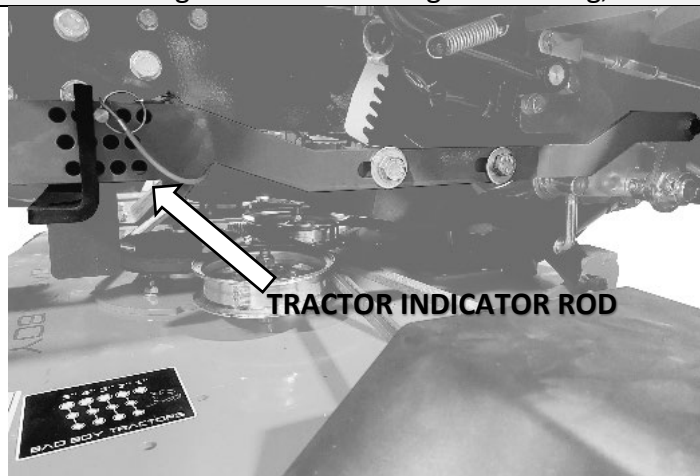


Figure 7B

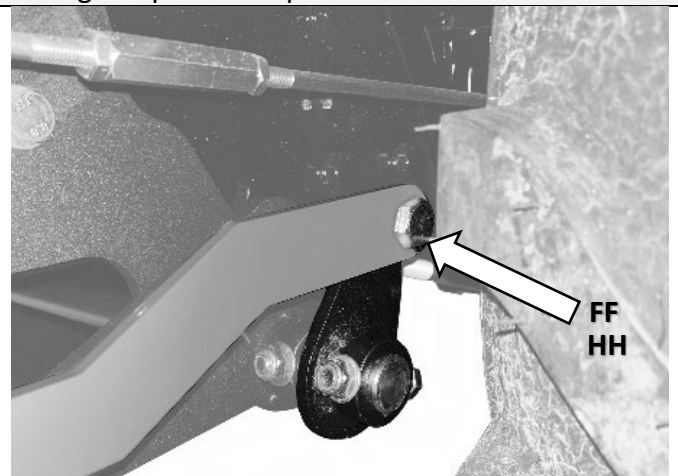


Figure 8B

C. Attach the Mower Deck

1. Install the rear Joint Pins and the L-Bolt to the right and left side Mid Drag Links (Figure 1C). Insert the Joint pin to the appropriate hole and use the II Flat Washer and the KK Cotter pins to secure. Insert the L-Bolt into the Joint pin as indicated and secure with locking nut GG. Repeat on the opposite side.
2. Insert the front portion of the Lift Bar into the slot of the previously installed Tractor Deck Stop Hangers. Align the corresponding holes and secure them using the Tractor Deck Lift Pins (Figure 2C). Repeat on the opposite side.

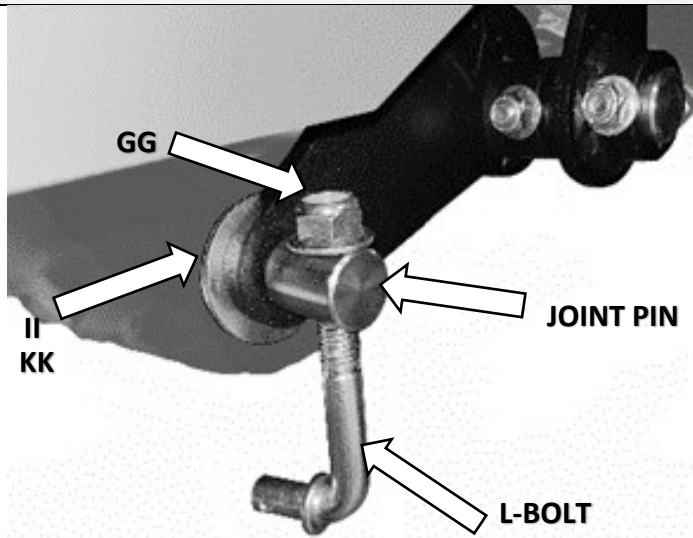


Figure 1C

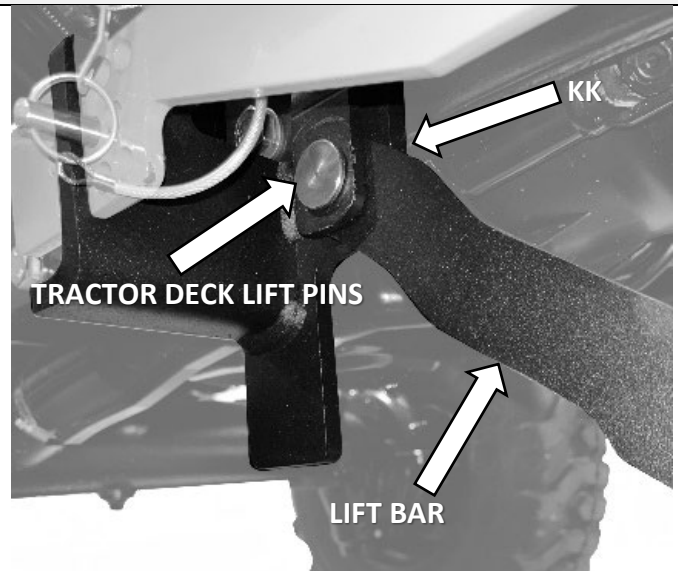


Figure 2C

3. Insert the L-Bolt into the appropriate hole on the rear portion of the Lift Bar as indicated (Figure 3C). Secure with the II flat washer and the KK cotter pin.

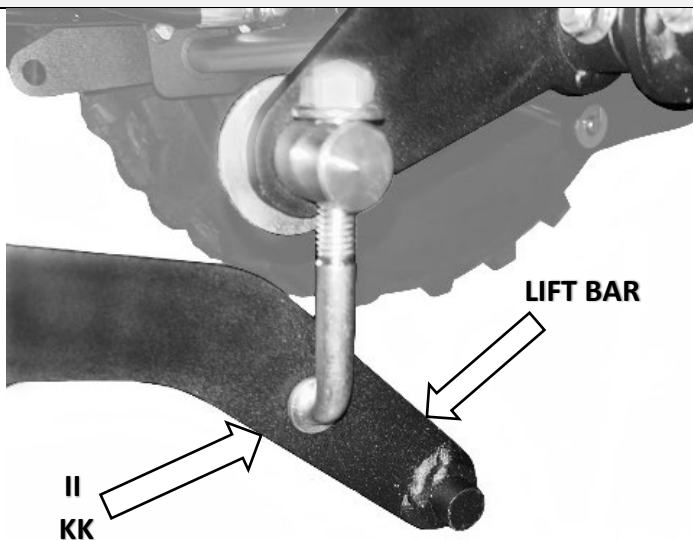


Figure 3C

(Section C. continued)

4. Attach the PTO to the mower deck and secure with a bolt LL and nut MM (Figure 4C). Torque to 13 ft-lb.
5. Carefully drive the tractor over the deck as indicate in (Figure 5C). 2x4's can be used as step-ups to get the front wheels on to the mower deck surface. Keep the front wheels on the pulley covers while driving over the deck.

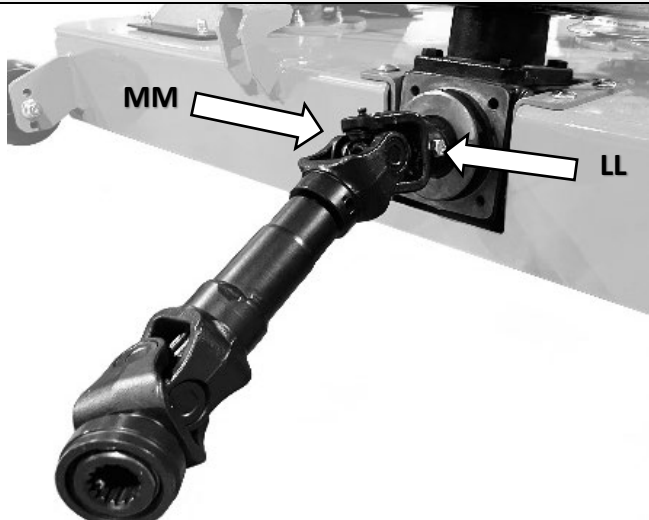


Figure 4C

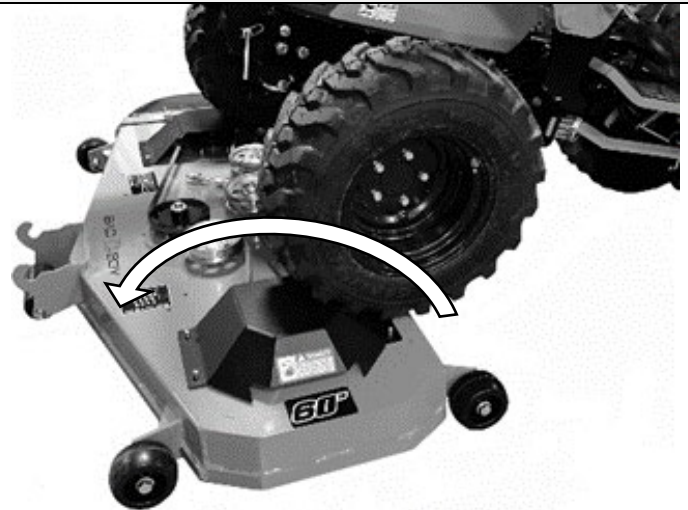


Figure 5C

6. Ease forward enough that the rear of the lift bars rest in the hooks located on the rear of the mowing deck (Figure 6C).
7. Place the rear of the Front Pull Bar into hooks located on the front portion of the mower deck (Figure 7C).

NOTE: The front pull bar is pre-set at 20" center to center of the anchor tubes. The pull bar's adjustment is crucial to the deck for leveling front to back. Shortening the pull bar will take pitch out of the deck. If the pull bar is too long, it will cause the deck to dip down. The pull bar setting should allow the deck to lift smoothly and even. In most cases, no adjustment of the pull bar will be needed.



Figure 6C

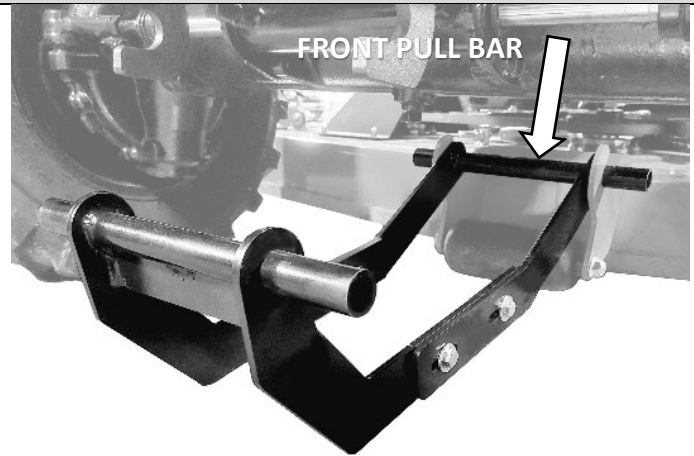


Figure 7C

(Section C. continued)

8. Place the Front Hook Bar into the Front Pull Bar Hangers as indicated (Figure 8C).
9. Place the front portion of the Front Pull Bar into the Front Hook bar and use a 1/2" drive ratchet to swing the Front Pull bar into position (Figure 9C).

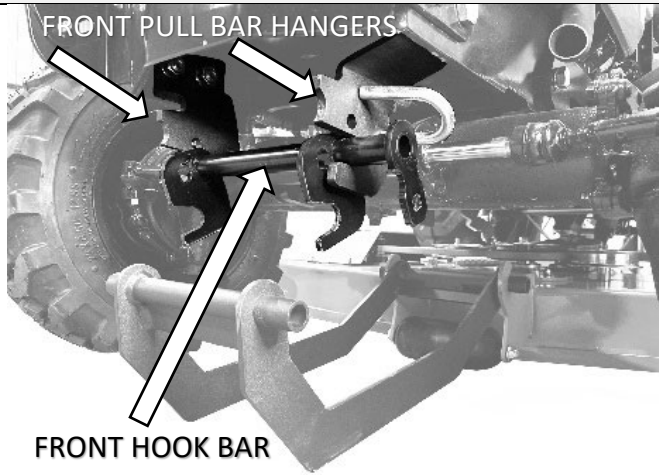


Figure 8C

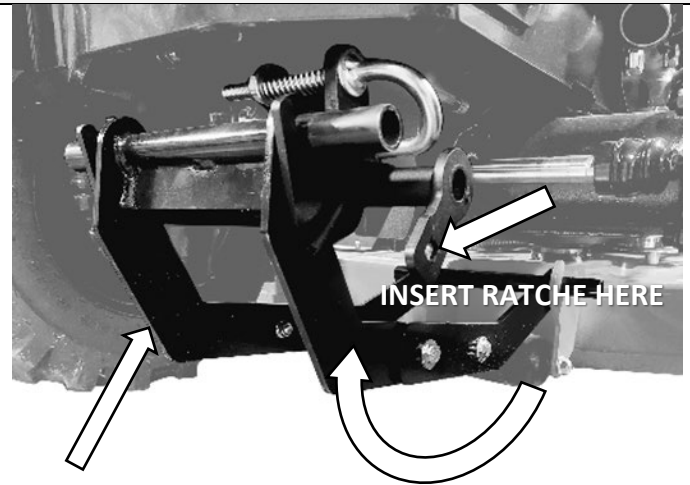


Figure 9C

10. Align the corresponding holes and lock in place with the J-Bolt Pin (Figure 10C).
11. Remove the bolt and cap on the tractors PTO as indicated in (Figure 11C).

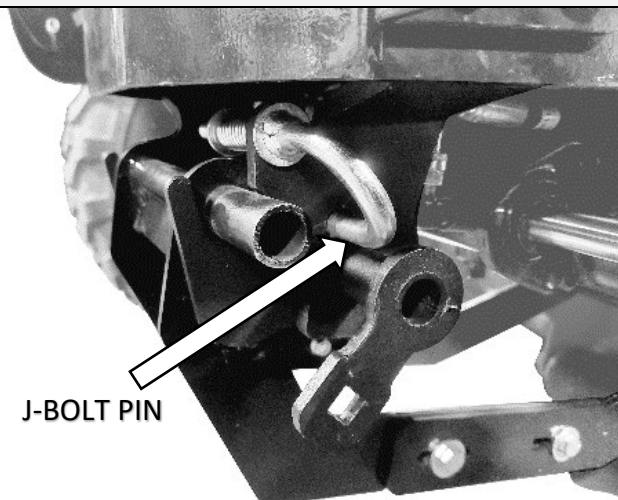


Figure 10C

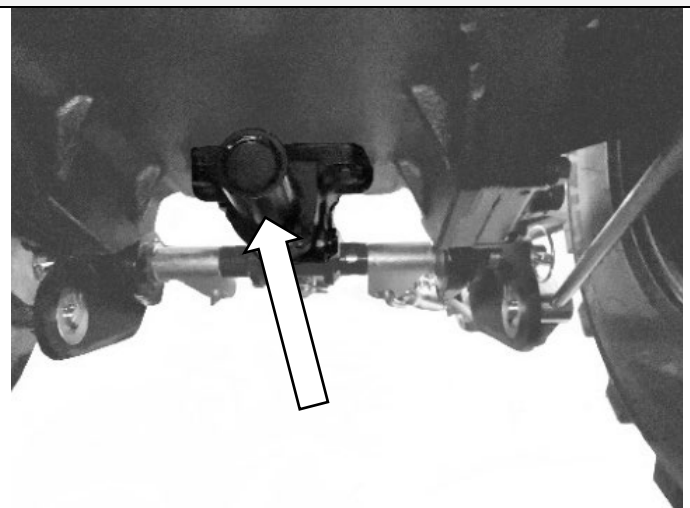


Figure 11C

12. Attach the quick-attach end of the PTO from the mower deck to the tractors PTO (figure 12C).

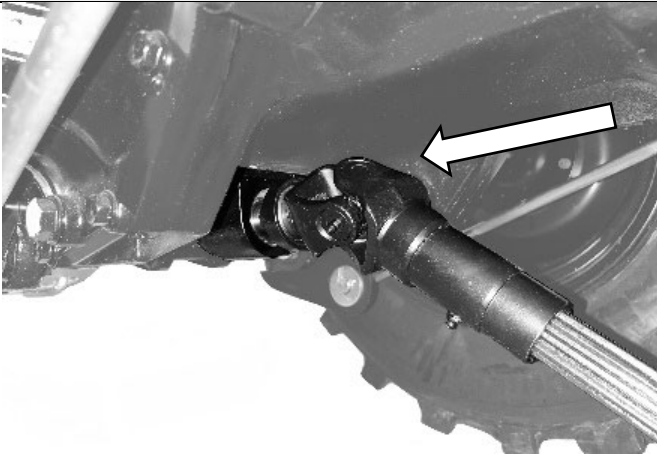
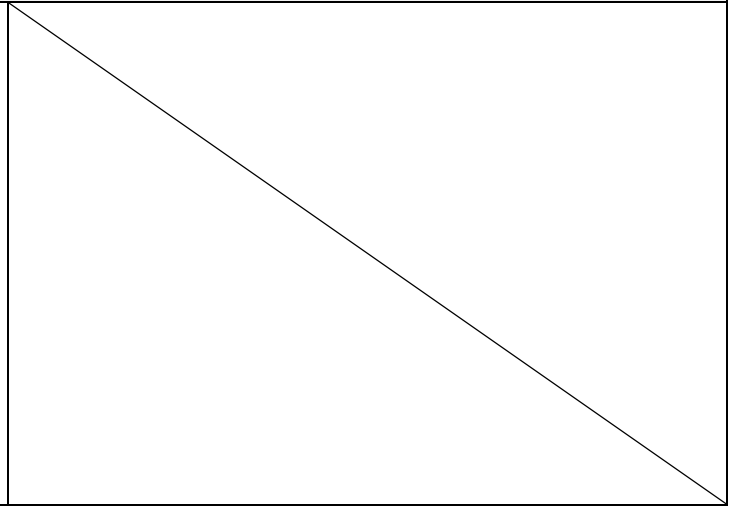


Figure 12C



D. Level the Mower Deck

1. To begin leveling the deck, move the tractor to a smooth, level surface.
2. Ensure the tire pressure is 20psi. this is set using the factory tire. The deck height will be greatly affected by different tires and or tire pressure.
3. Check the rear drag links. These should come pre-set with the nut threaded on to about $\frac{1}{2}$ " from the end of the bolt (Figure 1D). the other end should be threaded to where the bolt is even with the inside of the yoke as shown (Figure 2D). This controls the height and how soon the deck will begin to rise.

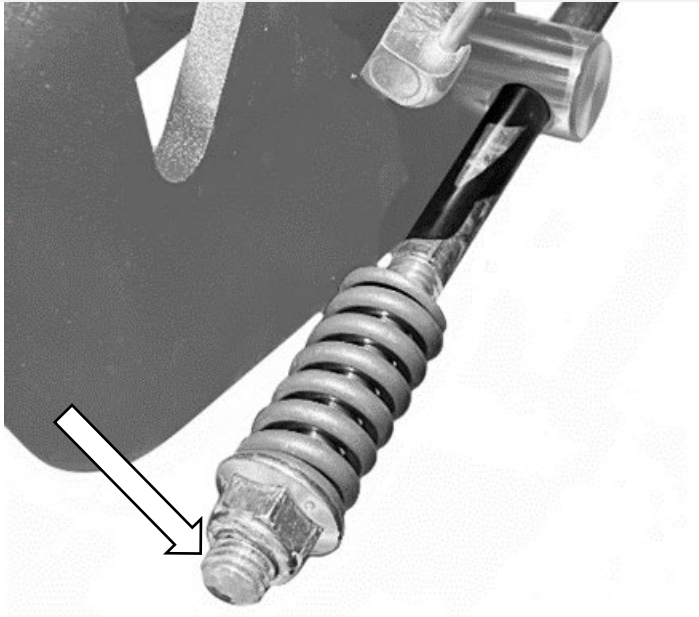


Figure 1D



Figure 2D

1. Lower the tractor lift arms all the way to their lowest position.
2. Set the nuts on the L-Joint $\frac{1}{4}$ " from the end of the bolt (Figure 3D).
3. Raise the deck all the way up and measure both sides of deck to ensure deck is level.

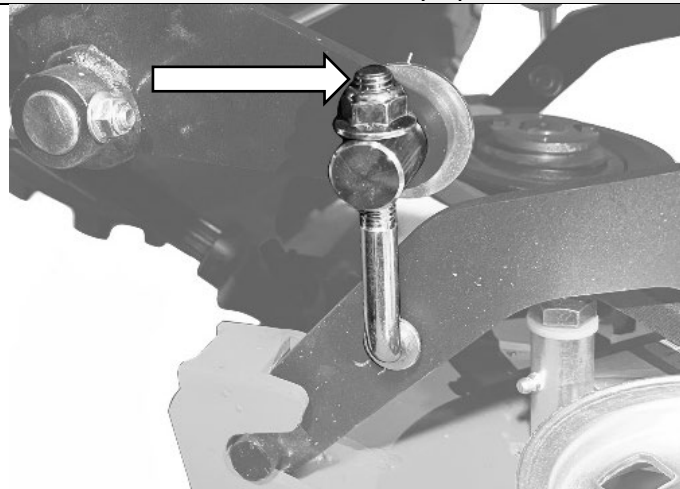


Figure 3D

(Section D. continued)

NOTE: The deck may not go all the way to the highest position at this time, this step is just for checking deck level from side to side.

4. Once the deck is level and raised in highest position, measure from the ground to the front-bottom edge of the deck. With deck in highest position, the measurement should be approximately 5".
5. To achieve desired deck height, lower deck all the way down and adjust rear lift rods. Adjust rear rods $\frac{1}{4}$ " at a time by raising deck to highest position and measuring. Repeat steps 4-5 until deck is approximately 5" from the ground when raised all the way up.

NOTE: It is critical that both rods must always be the same length to ensure the deck remains level. If the front of the deck raises sooner than the rear of the deck, the front pull bar is too tight and needs to be adjusted. See installation of pull bar.

6. Set deck height stop. Using 2x4s, lower the deck down onto the 2x4s be sure they are not resting on the blades. A standard 2x4 is $3\frac{1}{2}$ " so with that height plus the $\frac{1}{4}$ " of the deck bumper this will put the blades $3\frac{3}{4}$ " off the ground. Place stop pin in the $3\frac{3}{4}$ " hole as shown (Figure 4D).
7. With deck resting on 2x4s and rear lift arms lowered all the way down. Loosen the two $\frac{1}{2}$ " bolt on the deck stop arm and spread the two halves apart making it tight against the stop pin set in the $3\frac{3}{4}$ " pin hole as shown (Figure 5D). Tighten $\frac{1}{2}$ " bolts. Torque to 65 ft-lb.

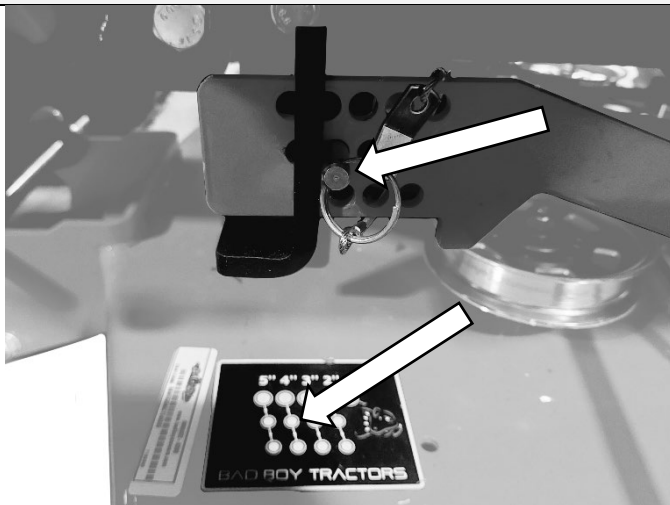


Figure 4D

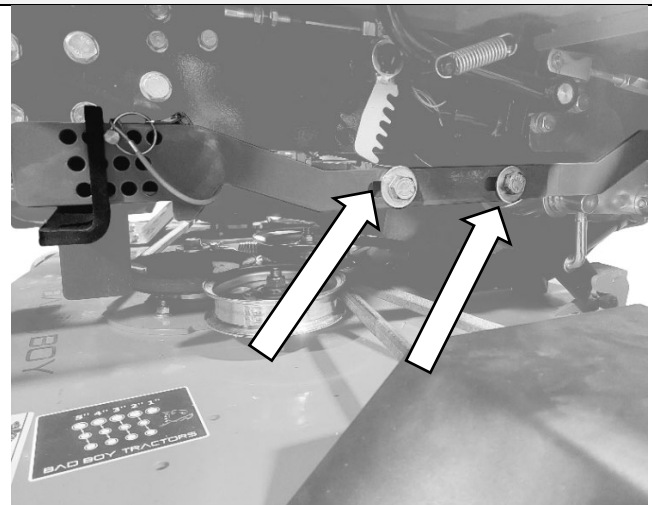


Figure 5D

NOTE: check rear lift rods. If springs are fully compressed when lift arms are in highest position they are set to tight, this will cause bending of rods, chatter, and or damage to tractor.

NOTE: In some cases, due to the difference in tire manufactures overall height to psi ratio will not always be the same. This can cause issues with deck height. Variances in tires may cause the tire sizes to differ at similar psi.

If tire inflation causes the deck to raise above 5", this may lead to damage of the PTO when the deck is in its lowest position.

WARRANTY

OWNER/OPERATOR'S RESPONSIBILITY

It is the owner and/or operator's responsibility to read the owner's manual before use. Failure to read the owner's manual is considered a misuse of this equipment.

It is the owner and/or operator's responsibility to inspect the product and to have any part(s) repaired or replaced before continued operation. Failure to do so could cause damage, excessive wear to other parts, or jeopardize operator safety.

LIMITED WARRANTY

Bad Boy Cutters warrants to the original purchaser of any new Bad Boy Cutter(s) that the equipment be free from defects in material and workmanship for a period of two (2) year from date of retail sale.

At Bad Boy Cutters request, the customer will make the defective part available for inspection by Bad Boy Cutters and/or return the defective part to Bad Boy Cutters. Transportation charges prepaid.

WHAT THIS WARRANTY DOES NOT COVER:

This warranty does not cover defects caused by depreciation or damage caused by wear, accidents, improper maintenance, improper use or abuse of the product, alterations, or failure to follow the instruction contained in the Owner's Manual for operation and maintenance.

Normal maintenance service and normal replacement items such as gearbox lubricant, worn blades, tire, or normal deterioration of exterior finish due to use or exposure.

Bad Boy Cutters will not be responsible for the pickup and delivery of a machine for warranty purposes or inspection.

WARRANTY LIMITATION:

THERE IS NO OTHER EXPRESSED WARRANTY. ANY WARRANTY THAT MAY BE IMPLIED FROM THIS PURCHASE INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IS HEREBY LIMITED TO THE DURATION OF THIS WARRANTY AND TO THE EXTENT PERMITTED BY LAW ANY AND ALL IMPLIED WARRANTIES ARE EXCLUDED. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

BAD BOY CUTTERS WILL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, OR SPECIAL DAMAGES AND/OR EXPENSES IN CONNECTION WITH THE PURCHASE OR USE OF THE CUTTER.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation(s) or exclusion(s) may not apply to you.

HOW TO OBTAIN SERVICE UNDER THIS WARRANTY:

Warranty service can be arranged by contacting the dealer where you purchased the mower or by contacting Bad Boy Cutters at warranty@badboycutters.com.

Proof of the date of purchase may be required to verify warranty coverage.

B. Warranty claims will not be reviewed or paid unless the warranty registration is received by Bad Boy Cutters within 30 days of the retail purchase date.

Record the model number, serial number and date purchased. This information will be helpful obtaining parts or service if required.

SERIAL NUMBER _____

DATE OF RETAIL SALE _____

PLACE OF PURCHASE _____



BAD BOY IMPLEMENTS

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