



INSTALLATION INSTRUCTIONS: Convert Deck Drive / PTO Belt Idler Assembly From Original Single Pulley System to Double Pulley Assembly. MMZ "TANK" UNITS.

DISCRIPTION:

For 2007 Model year MMZ "TANK" units, a new deck drive / PTO idler system has been designed. The new double pulley system can replace the original single pulley cast or welded arm system. Installing this kit will address issues as premature PTO belt wear and slipping off pulleys.

EXAMPLE SHOWN, 48" DECK.



2006 and prior w/ gold colored cast metal or welded steel arm and single flat idler pulley.



New system with double pulley configuration.

Original Idler Arm



New Style Double Idler System.

REQUIRED KIT:

Kit # 02003759. Includes, Arm w/ bushings, 3 Flat Washers, 1 Mounting Bolt w/ Nut, 1 V Pulley Mounted and 1 Flat Pulley, (Install Flat Pulley in Rear Hole for 72" Decks and Fwd Hole on 48", 54" & 60" Decks.) Belt Routing Guide.

Spring # 02003712 (silver) for 48", 54", & 60" Decks. Included in Kit.

Spring # 02000726 (gold) for 72" Decks. Included in Kit.

Over Center Tension Rod # 02001574 for 72" Decks. Included in Kit.

TOOLS REQUIRED FOR INSTALLATION:

9/16 Box / Open End Wrench, 9/16 Socket, Ratchet or Air Tool.

Square, Tape Measure and Marking Device. (Required to lay-out new mounting holes.)

Drill Motor and 3/8 to 7/16 Drill Bit.

INSTALLATION INSTRUCTION:

Disassembly:

- For safety, park unit on level surface and disconnect battery.
- With deck in lowest position, remove PTO belt, disconnect trail links and lift linkage.
- Remove deck from unit.
- Unbolt and remove the original Deck Drive / PTO Idler Arm Assembly and Tension Spring.

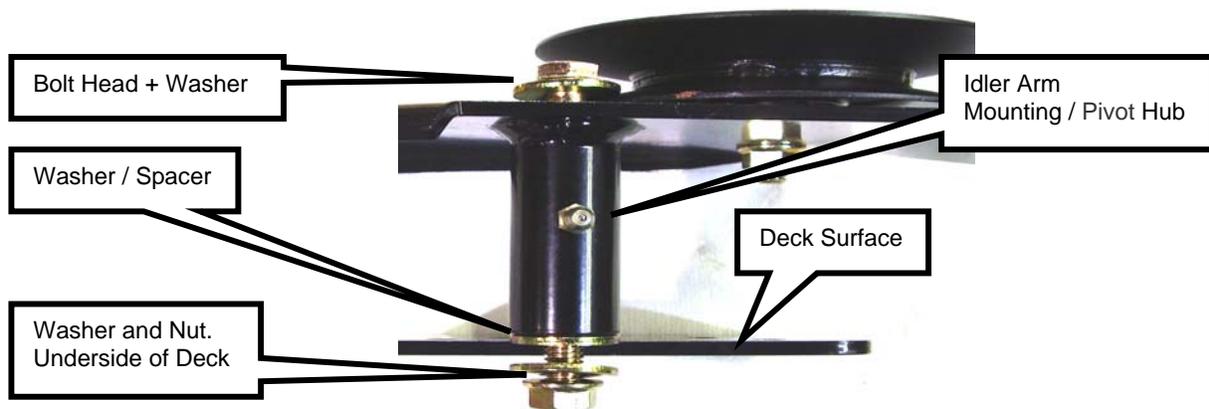
INSTALLATION INSTRUCTION: (CONT.)

Layout:

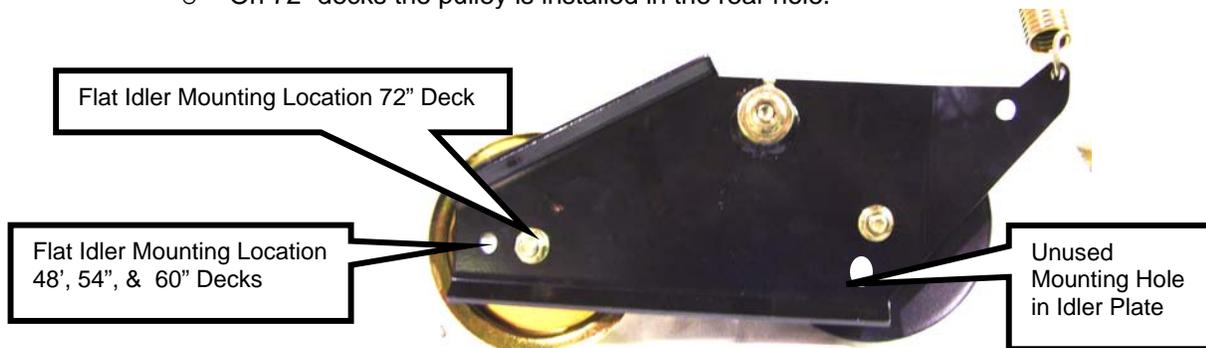
- Using the attached diagram (page 5) as reference, lay-out the hole location for the new idler pivot mount.
- With a square and using the back edge of the deck as the reference surface, mark a line perpendicular to the back edge of the deck thru the center of the original idler mounting hole.
 - Measure from the back edge of the deck, along the center (marked) line to the appropriate dimension from the diagram (page 5) for the size deck. This is the center of the new mounting hole.
- Drill a 3 / 8" + Hole at the new location.

New Idler Installation:

- Install the new idler in the new mounting hole per sequence below.
 - Bolt w/ washer installed from the top of the of the arm assembly thru the pivot hub.
 - One washer installed between the deck and pivot hub.
 - Nut and washer installed on bottom side of deck to retain the complete assembly.



- After Assembly is complete. Add Grease to the Hub thru Fitting Provided.
- Note the 2 mounting holes for the flat idler pulley.
 - On 48", 54" & 60" decks, the pulley is installed in the forward hole.
 - On 72" decks the pulley is installed in the rear hole.



Alignment: Flat Idler to Spindle Drive Pulley.

- After installation, check the relationship of the flat idler to the center spindle drive pulley. The center of the flat pulley should line up closely with the center of the spindle drive pulley.
 - If too high, replace washer between deck and mounting hub of idler with a thinner washer.
 - On some 2006 and prior models. The flat idler is about 1/4" + higher than the deck drive pulley. To improve alignment, relocate the 1/4" spacer (# 00021925) from the top of the drive pulley to below it. Final sequence should be, Spindle Bolt, - Flat Washer, - Deck Drive Pulley, - Relocated 1/4" Spacer, - 1" Thick Spacer - Spindle Pulley.
 - If too low, add a washer between deck and mounting hub.

Tension Arm Relocation:

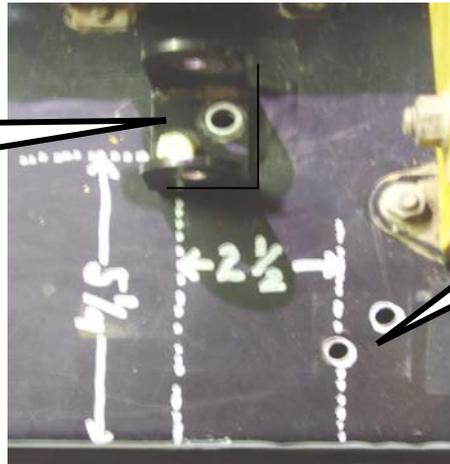
- On 48" & 54" Decks, the tension arm Does Not have to be relocated.
- On 60" Decks, Layout and drill a new mounting hole 1" outward from the existing hole.
See Diagram. (page 5)

- Use #02003712 Silver Tension Spring .

On 72" Decks with Over Center Tension Lever, the Tension Lever Assembly must be Relocated.

- Disassemble the tension lever from the mounting bracket.
- Disassemble the tension rod from the lever and discard rod.
- Remove the 2 self tapping bolts securing the mounting bracket to the deck.
- Lay out new mounting location for Tension Lever. You are going to relocate the tension lever 2-1/2" over from the original location and 5-1/4" up from the rear edge of deck. See Diagram.
 - With a square and using the back edge of the deck as the reference surface, mark a line perpendicular to the back edge of the deck thru the center of the existing mounting hole. Use the hole closest to to back edge of the deck.
 - Measure 2-1/4" left of that line. Mark a line parallel to the reference line and perpendicular to the back edge of the deck.
 - Measure 5-1/4" from the back edge of the along that line. That point is the new location for one of the bracket mounting holes.
 - Drill a hole for 3/8 bolt at that 5-1/4" point.
 - Install the bracket with one bolt and position it square and parallel to the back of the deck and the deck hanger plate. See Pic.

Mounting Bracket Positioned with 1 Bolt at New Location. Use Upper Right Hole as Template to Drill for Second Mounting Bolt and Nut.



Original Mounting Holes for Tension Lever Bracket.

- Using the bracket as a template, drill the other mounting hole. Use a 3/8 nut and bolt to secure bracket to the deck.
- Before installing the tension lever, bend the grip portion of the tension lever down approx. 30degrees. See Pic.

Completed Installation.

Shown, Bent Grip @ 30 + - Deg. Angle.



New Location of Tension Lever Mounting Bracket.
2-1/2" From the Original Brkt. Mtg.
5-1/4" From Rear Edge of Deck

New over-center tension rod. Provided in kit.

Original Location of Tension Lever Mounting Bracket.

- Attach # 02001574, new tension rod, to # 02000726, Gold Spring attached to the PTO / Deck Drive idler arm. Attach the new tension rod to the over center tension release lever as the original was installed.
- Installation Complete.

Before Reinstalling the Deck Check the Following. Repair or Replace as Required.

- Trail Links, Excessive bushing and or pillow block wear.
 - The Adjustable Cast Iron Links adjusted evenly and proper length.
- Lift Links, loose from wear or bent.
- Spindle and PTO / Deck Drive Belts for abnormal or excessive wear.
- Spindle drive belt idler pulley for potential bearing failure. Should run smooth and quiet.
- Spindles, mounting bolts tight, lubricated, no play in bearings, spin quietly and smoothly by hand.
- Anti Scalp and Ball Wheels, Excessive wear.
- Blades, Excessive wear, bent or chipped.

Reinstall Deck:

- Install PTO / Deck Drive Belt per routing diagram included in kit..
 - Original PTO / Deck Drive Belt Spec. does not change with new idler
- Attach Belt Routing Diagram to underside of floor pan for future reference.

Check and Adjust Deck Level and Pitch.

- Refer to Operator – Service Manual for specifications and procedure.

Final Check the Installation and Relocation Specifications.

Run Test Deck. This procedure will seat the PTO Belt in the new idlers and is an opportunity for final checks.

- Before starting the unit and engaging the PTO / Deck Drive Clutch be sure area is clear of tools or debris that may be picked up or thrown by spinning blades, pulleys or belts.
- Bystanders and co-workers must be clear of the area before you engage the PTO / Deck Drive.
- Engage and Disengage the PTO / Deck Drive Clutch for a minute or so at each of the highest, middle and lowest deck settings.
- With the engine is at operating temperature and the deck drive belt is seated, check and readjust if necessary, the engine RPM at full throttle with the deck engaged.
(Spec. @ 3600 to 3650 max. @ full throttle w/ deck drive engaged.)
- After run in is completed do a final check of new installation, belt condition, belt and pulley alignment.

FOR QUESTIONS or HELP, CONTACT:

CUB CADET / MTD Tech. Service.

OR

Joel Stevens @ Commercial Turf Products, 330-995-7000. ext. 7007.

OR

Your Local CUB CADET Commercial Sales Manager.

LEGEND

New Idler Mounting Locations.

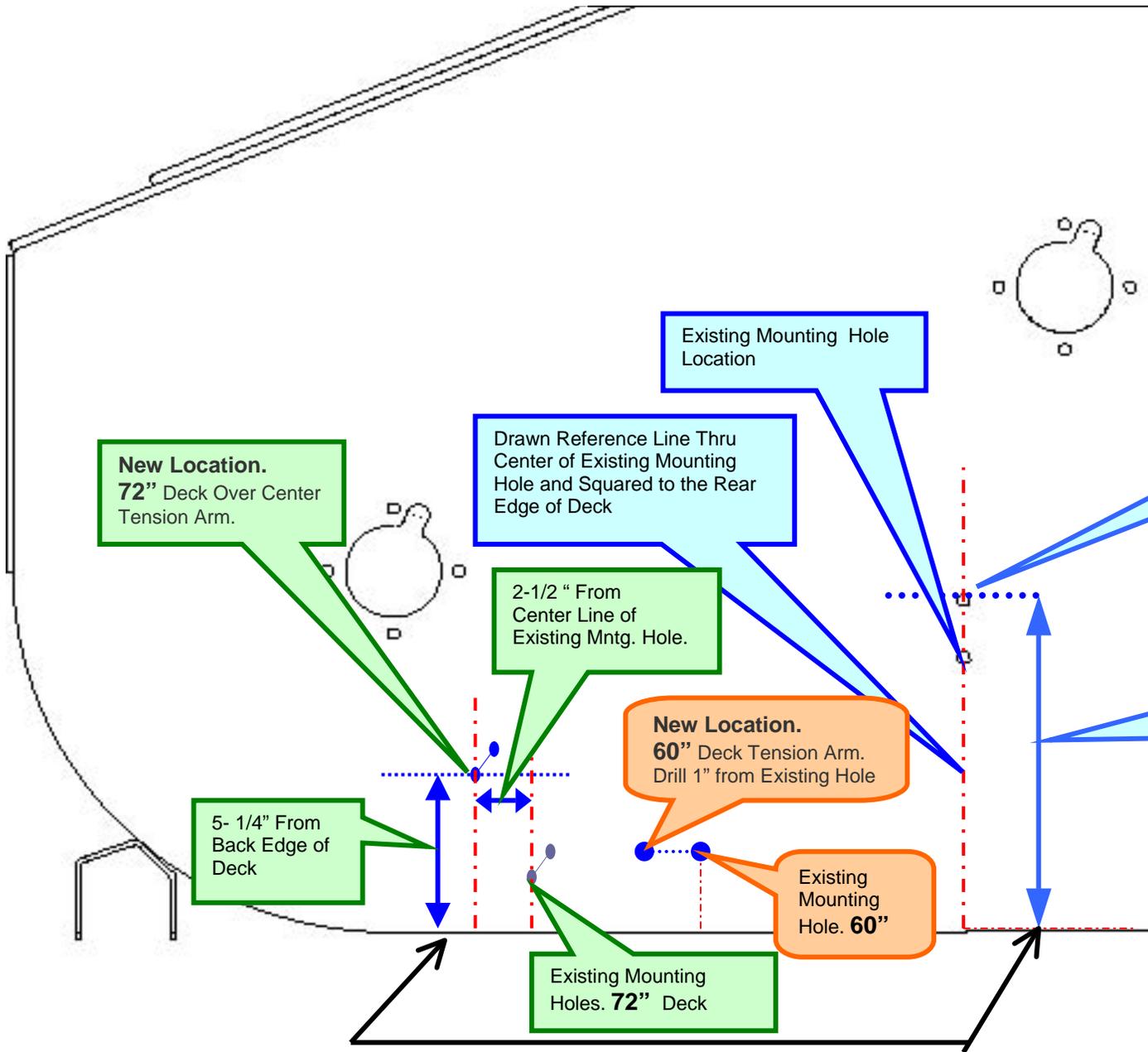
Relocating Tension Arm. 60" Decks

Relocating Over Center Tension Arm. 72" Decks

New Mounting Hole Location Idler Arm
SEE CHART BELOW

Location of New Mounting Hole Measured From Rear Edge of Deck.

48" Deck. = 5-1/2"
54" Deck. = 6- 7/8"
60" Deck. = 6-7/16"
72" Deck = 12"



BACK OR REAR EDGE OF DECK

VIEW NOT TO SCALE