KMC
KELLEY

68-SERIES

6800 RIPPER BEDDER

RIGID AND STACK-FOLD TOOL BARS

OPERATOR'S MANUAL

THIS MANUAL TO ACCOMPANY MACHINE

PART NO. 68-OM-01
PRINTING DATE: MAY 2016

WARRANTY POLICY

KELLEY MANUFACTURING COMPANY (KMC) warrants that all goods sold to the original purchaser of any KMC product shall be free of any defects in material and workmanship if used under normal operating conditions. The warranty period begins on the date of purchase by the retail customer and ends twelve (12) months thereafter. KMC's sole responsibility is to repair and/or replace the defective part or parts at no cost to purchaser. This remedy is the **SOLE AND EXCLUSIVE REMEDY** of purchaser.

The purchaser must fill out and return the warranty registration form found in the front of the operator's manual. Failure to return the warranty registration form within 30 days shall result in the goods being sold "AS IS", and all warranties shall be excluded.

This warranty shall not apply to those items that are by nature worn in normal service, including but not limited to belts, springs, teeth, chains, etc. Items such as tires, tubes, and gearboxes and all other items warranted by the original manufacturer are warranted only to the extent of their individual manufacturer warranty, and KMC is not warranting any of said items. All warranty claims must be made through a KMC licensed dealer, and a warranty form request must be submitted to KMC within 30 days of failure or the warranty provision shall be unenforceable against KMC.

No agent or person has authority to change or add to this warranty as written.

THE ABOVE IS THE ONLY WARRANTY MADE BY KMC AND IS MADE EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. KMC MAKES NO WARRANTY OF MERCHANTABILITY AS TO ANY GOODS MANUFACTURED BY KMC AND FURTHER, KMC DOES NOT WARRANT ANY SUCH GOODS AS SUITABLE FOR ANY PARTICULAR PURPOSE TO THE RETAIL CUSTOMER. THE SUITABILITY OF GOODS FOR ANY PURPOSE PARTICULAR TO THE CUSTOMER IS FOR THE CUSTOMER, IN HIS SOLE JUDGEMENT, TO DETERMINE. KMC FURTHER MAKES NO WARRANTIES WITH RESPECT TO ITS MANUFACTURED GOODS THAT WOULD NORMALLY BE DISCLOSED BY AN EXAMINATION. THIS IS THE FULL AND FINAL EXPRESSION OF ALL WARRANTY LIABILITY OF KMC. NO OTHER WARRANTY, EITHER EXPRESSED OR IMPLIED, SHALL BE ENFORCEABLE AGAINST KMC.

Kelley Manufacturing Co.
80 Vernon Drive / Zip 31794
P.O. Drawer 1467 / Zip 31793
Tifton GA

6800 SERIES RIPPER BEDDER OWNERS MANUAL

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OPERATIONAL SETUP

MAINTANENCE

FORWARD

INTRODUCTION:

The **6800 Series Ripper Bedder** is a heavy-duty deep tillage tool that is capable of breaking the ground hardpan up to 18 inches deep, while forming and shaping beds above ground in a variety of shapes and sizes. Reset on the Go Shanks for non-stop operation, with the ability to clear obstructions and fully reset back in the ground without ever slowing down and Toggle Trip Shanks offering the same superior load protection, but requiring lifting for full reset.

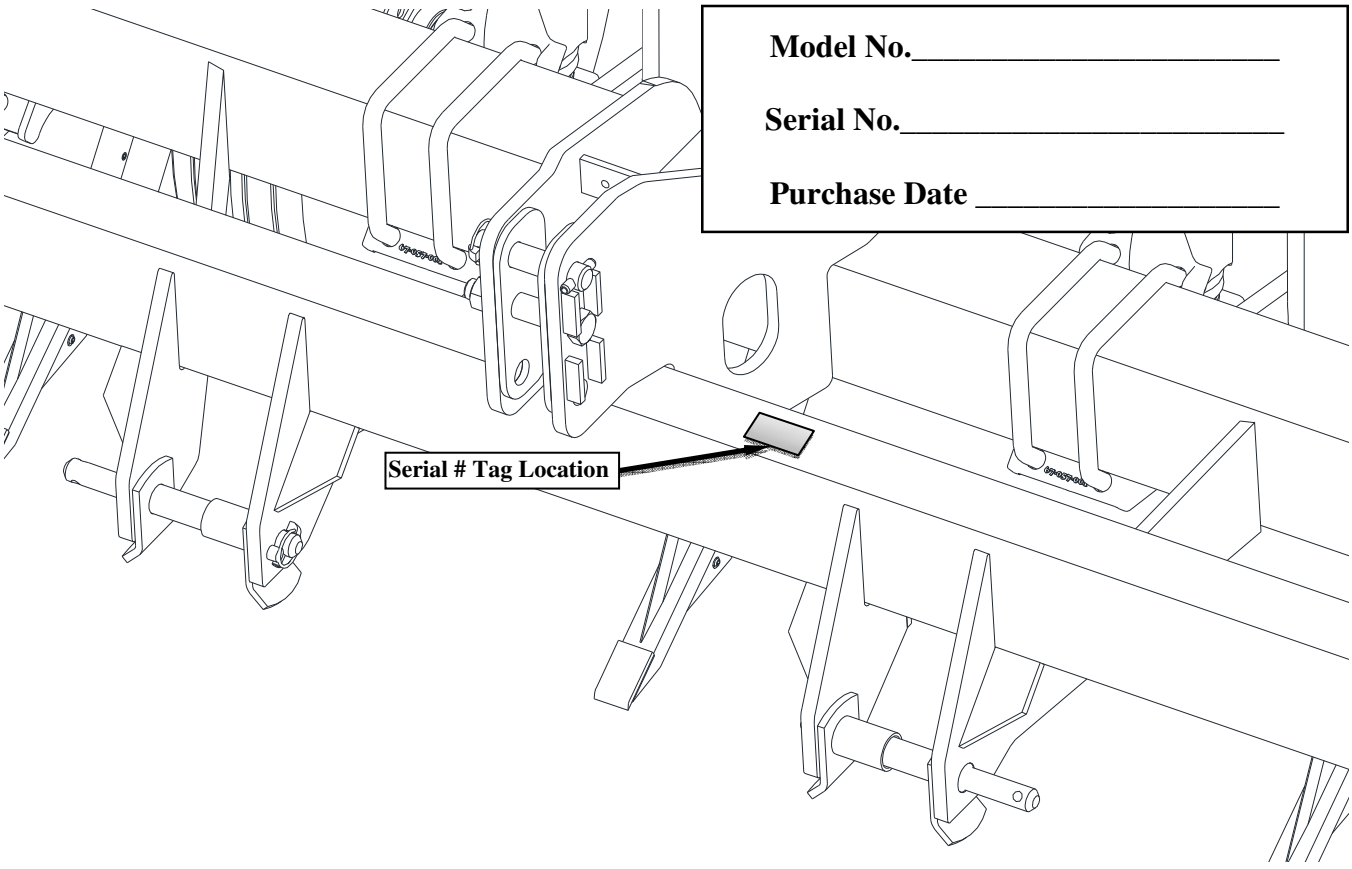
TO THE PURCHASER

This **KMC 6800 Series Ripper Bedder** has been carefully designed and manufactured to give years of dependable service. In order to operate it efficiently and maintain if properly, please read the instructions within this manual thoroughly.

Some components of this machine are labeled left or right. The notations are determined by standing behind the implement and facing the direction of forward travel.

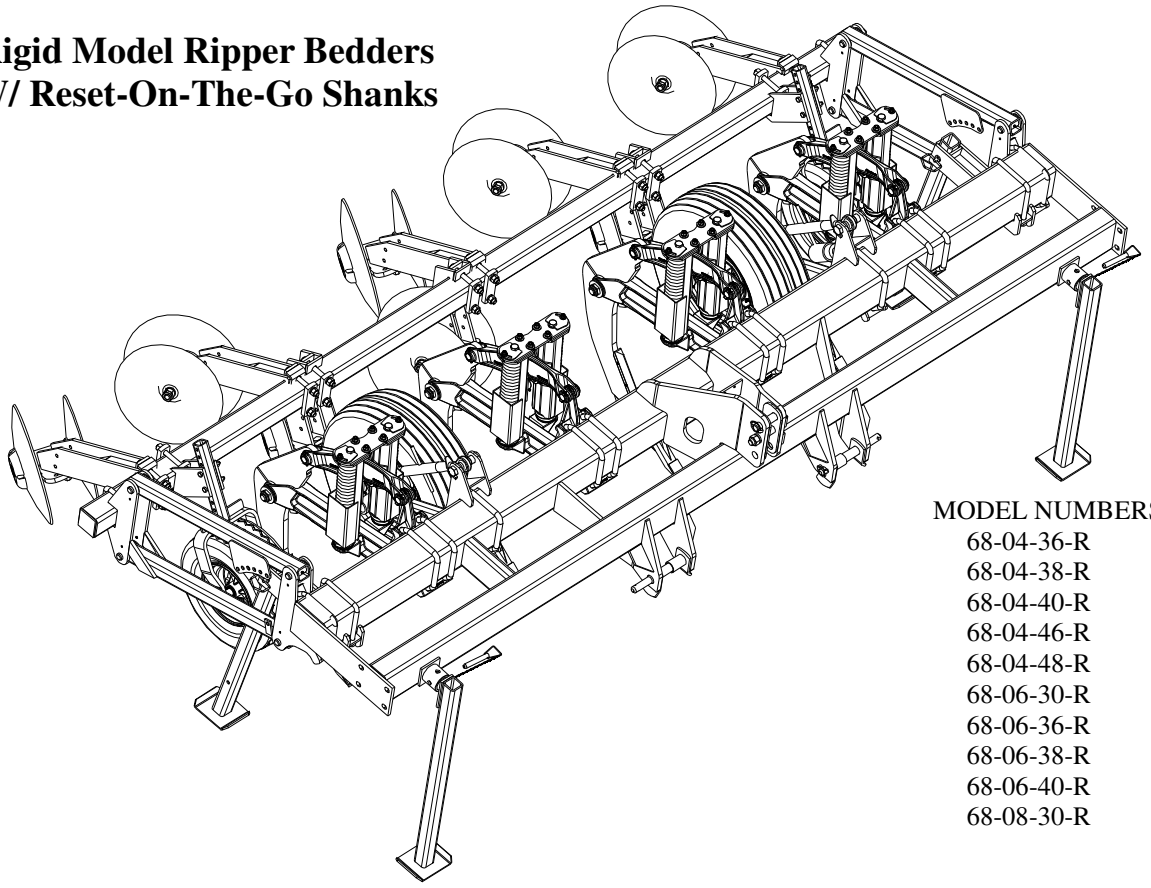
After reading this Operator's Manual, Please keep it for reference each season.

To insure procurement of the proper repair parts, please record your machine's Serial Number and Purchase Date as shown below:



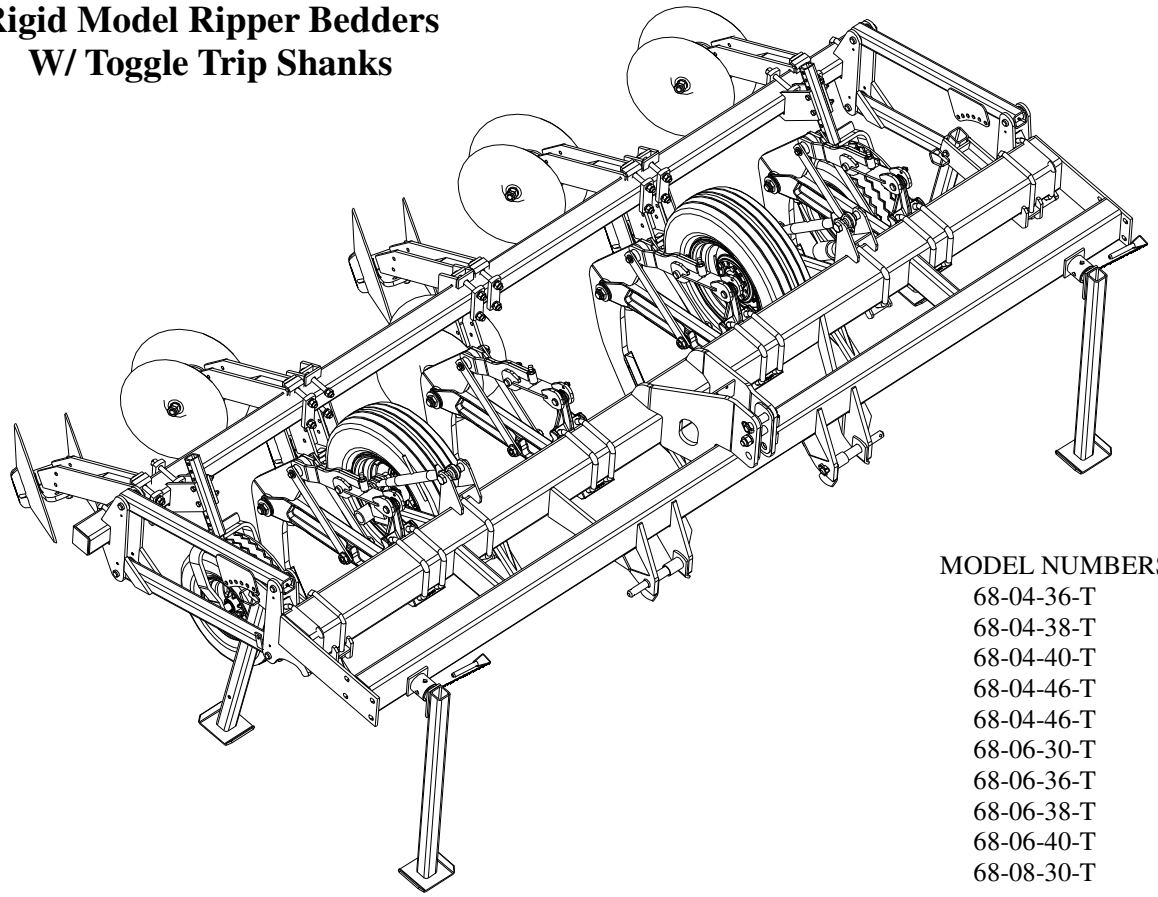
MODELS COVERED IN THIS OWNER'S MANUAL:

Rigid Model Ripper Bedders
W/ Reset-On-The-Go Shanks



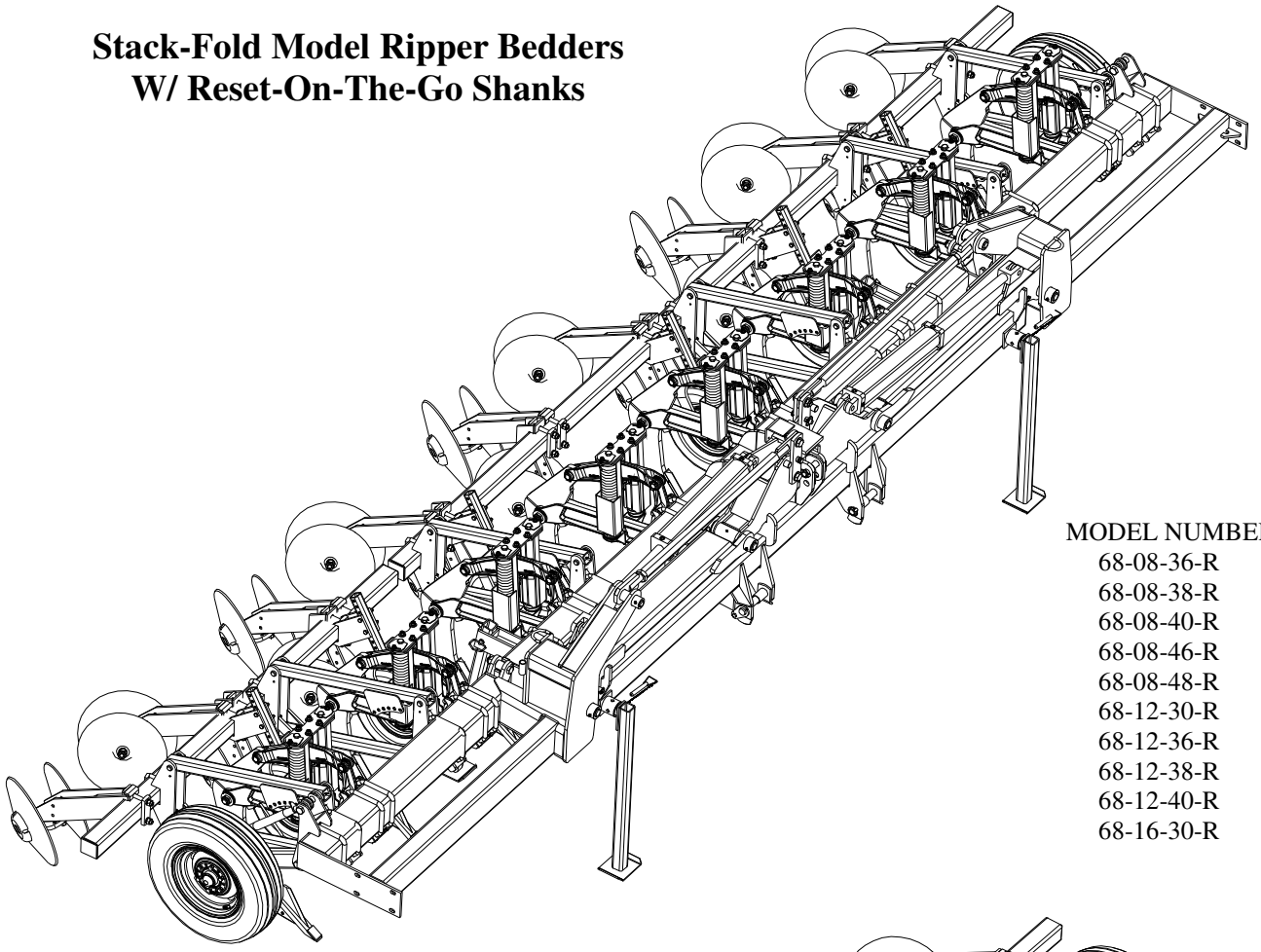
MODEL NUMBERS:
68-04-36-R
68-04-38-R
68-04-40-R
68-04-46-R
68-04-48-R
68-06-30-R
68-06-36-R
68-06-38-R
68-06-40-R
68-08-30-R

Rigid Model Ripper Bedders
W/ Toggle Trip Shanks



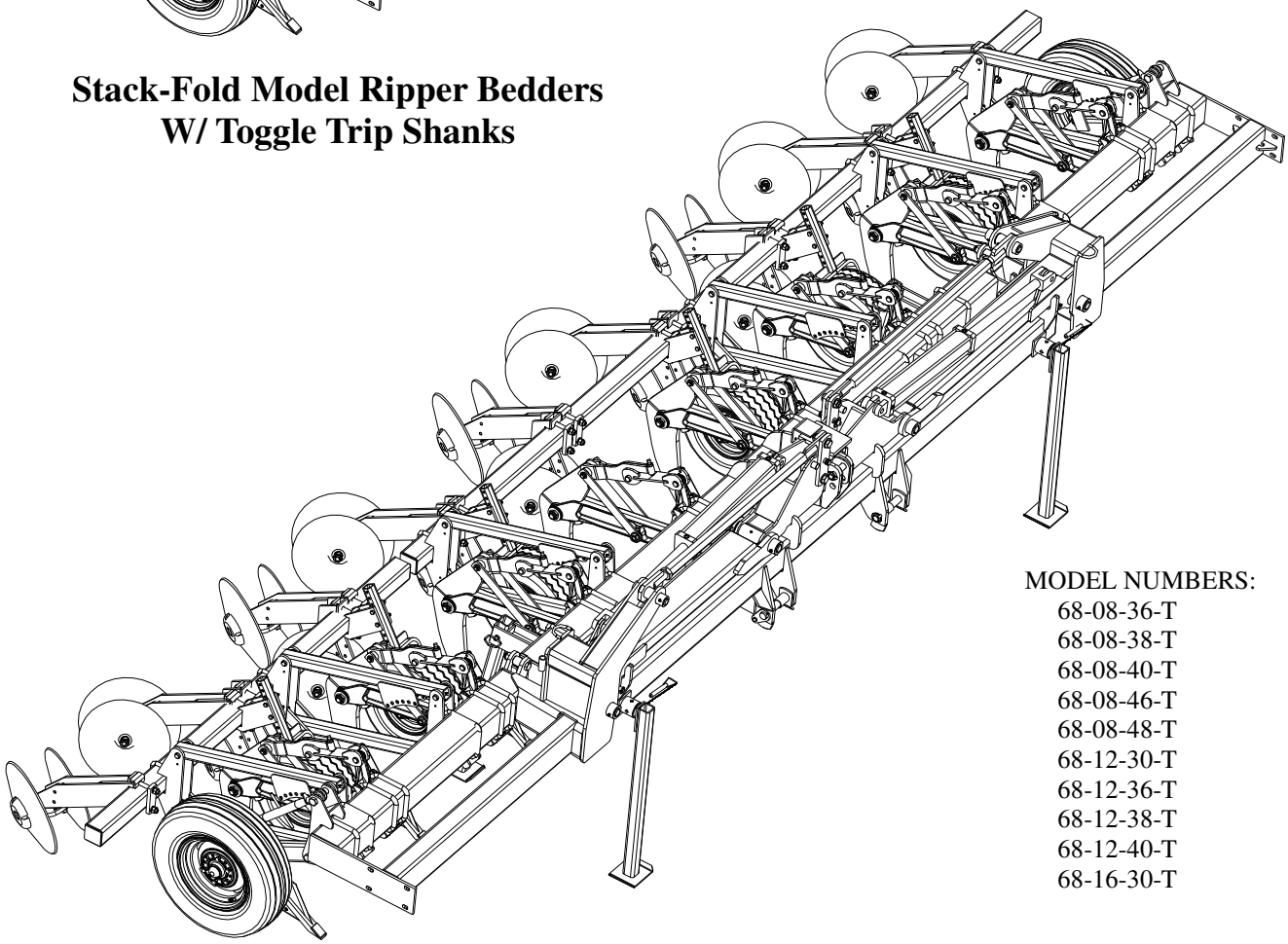
MODEL NUMBERS:
68-04-36-T
68-04-38-T
68-04-40-T
68-04-46-T
68-04-46-T
68-06-30-T
68-06-36-T
68-06-38-T
68-06-40-T
68-08-30-T

Stack-Fold Model Ripper Bedders
W/ Reset-On-The-Go Shanks



MODEL NUMBERS:
- 68-08-36-R
- 68-08-38-R
- 68-08-40-R
- 68-08-46-R
- 68-08-48-R
- 68-12-30-R
- 68-12-36-R
- 68-12-38-R
- 68-12-40-R
- 68-16-30-R

Stack-Fold Model Ripper Bedders
W/ Toggle Trip Shanks



MODEL NUMBERS:
- 68-08-36-T
- 68-08-38-T
- 68-08-40-T
- 68-08-46-T
- 68-08-48-T
- 68-12-30-T
- 68-12-36-T
- 68-12-38-T
- 68-12-40-T
- 68-16-30-T

RE-OPERATIONAL CHECKLIST:

All safety and operating procedures reviewed

All hardware checked for tightness

Field adjustment procedures reviewed

Lubrication information reviewed

Machine fully lubricated

Hitch connection to implement information reviewed

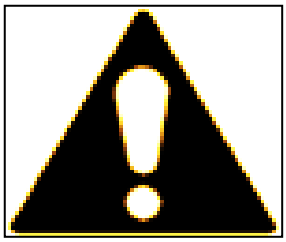
Warranty information reviewed

FINAL ASSEMBLY ADJUSTMENTS AND PRE-DELIVERY CHECK LIST

1. Check to make sure each ripper shank is located on desired row spacing and that all mounting bolts are torqued properly.
2. Be sure jackstands are mounted securely with the bottom of the rear jackstands angled rearward.
3. Check alignment and spacing of each pair of disc gangs (see pages 14-44 for layout dimensions) and are position same distance from row.
4. Make certain that disc gangs are set in same hole angle.
5. Make sure the safety reflectors are mounted correctly and located as near the ends of the tool bar as possible.
6. If row markers are used, check to make sure they are assembled correctly (left marker on left end of tool bar, right marker on right end of tool bar) and working freely.
7. If lift assist wheels are used, check to make sure they are assembled and mounted correctly with the proper hydraulic connections.
8. Check toolbar gauge wheel and bedder gauge wheels, and lift assist wheel tires for proper air inflation, and grease all grease fittings.
9. Double check all nuts and bolts for proper torque.
10. Store your Operator's Manual in a safe and dry environment. **This manual must be delivered to the customer with the machine.**

SYMBOL INFORMATION

This safety alert symbol is used throughout this manual to identify safety messages. When you see this symbol, read the message which follows as it will advise you of possible injury.

REMEMBER  **THINK SAFETY!**

(RED)

This symbol indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury.

(ORANGE)

This symbol indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury. It may also be used to alert against unsafe practices.

(YELLOW)

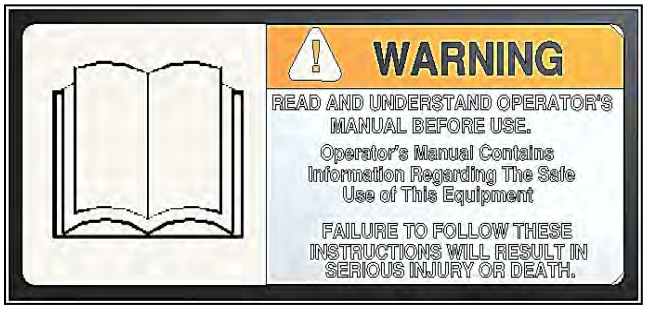
This symbol indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

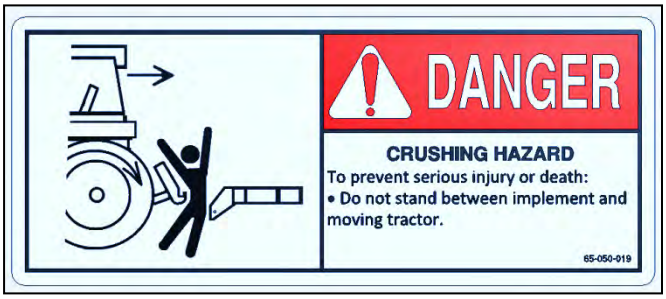
(GREEN OR BLACK)

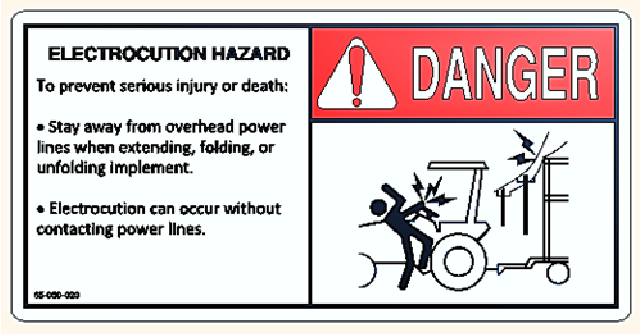
Is used for instruction on operating, adjusting, or servicing a machine.

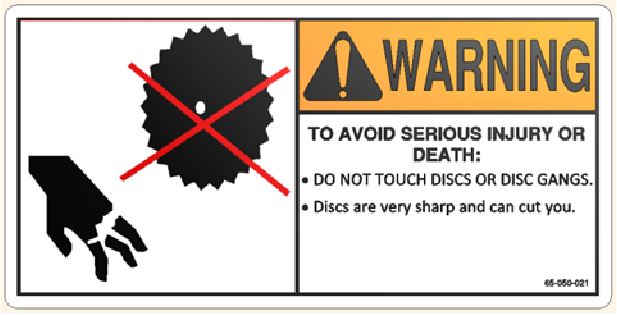
SAFETY DECALS

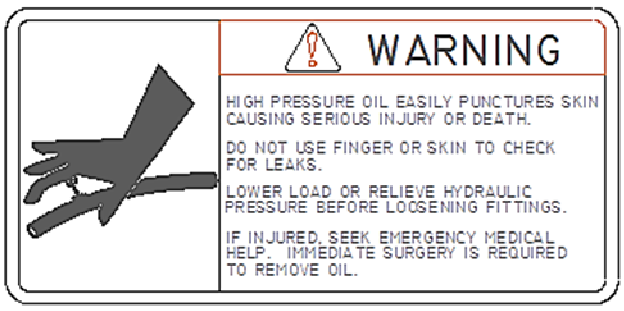
The Safety decals that follow are associated with the implement covered in this owner's manual. They should be reviewed and associated with where they are applicable on the implement being covered.

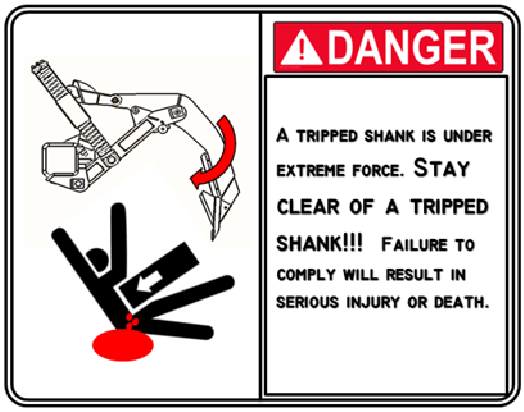












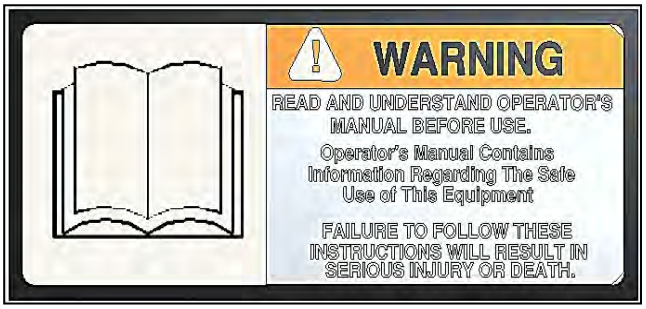
RETAIL CUSTOMERS RESPONSIBILITY UNDER THE KMC WARRANTY:

The retail customer's responsibilities are:

1. To read the Operator's Manual and operate the **Ripper Bedder** in accordance with the instructions given in this manual.
2. To inspect the **Ripper Bedder** daily, lubricate as specified and repair or replace parts as needed, especially when continued use would cause damage or excessive wear to other parts.
3. To maintain and keep in place all safety shields and devices.
4. When warranty service is necessary, it is the customer's responsibility to deliver the machine to the KMC dealer from which it was purchased. Warranty repairs should be submitted to the dealer within **thirty (30)** days of failure.
5. Dealer travel to the machine or hauling the machine to his shop for the purpose of performing warranty service is not allowed under KMC warranty. It is a cost to be paid for by the retail customer. Any arrangement whereby the dealer agrees to absorb all or part of this cost is strictly between the dealer and the retail customer.

SAFETY PROCEDURES:

Safety and performance are the primary objectives of the designers of KMC equipment. Safety features have been incorporated into this machine where possible and warnings given in other areas. For your safety, **PLEASE** read and observe the following safety procedures.



1. All persons operating this piece of equipment should **READ** the Owner's Manual.

2. Do not permit anyone to ride on the machine at any time.

3. Before starting or operating the machine, make a walk-around inspection and check for obvious defects such as loose mounting bolts and damaged components. Correct any deficiencies before starting. **(The equipment must be properly maintained and guarded and must be suitable to performing its task.)**

4. Keep all persons a safe distance away from the rear and sides of the machines while it is in operation.

5. **Do not allow children to operate the Ripper Bedder. Only experienced tractor operators should operate the tractor when using the Ripper Bedder.**

6. Stay clear of hydraulic lines, as they maybe under extreme pressure or heat.

7. Drive safely during transport; excessive speed while turning or on rough ground could cause damage to the Ripper Bedder and/or cause the tractor to tip over. **(Maximum speed of implement should never exceed 20 mph on highway and 10 mph off-highway.)**

8. Make sure hitch components are attached securely before operating or transporting.

9. Use flashing warning lights when on highways, except where prohibited by law.

10. Disengage PTO, apply parking brake, and stop tractor engine before dismounting tractor. Allow mechanisms to stop completely before cleaning, working, or adjusting on machine. Even when the tractor is stationary, you should make sure it is properly secured and made safe by following the **Safe Stop procedure**:

    1. **Handbrake/Footbrake on**
    2. **Controls in neutral/park**
    3. **Engine off**
    4. **Key out**

11. Keep hands, feet and clothing away from moving parts.

12. Make sure everyone is clear of machine before starting tractor or operating machine.

13. Observe all safety decals located on machine. Replace them if they become damaged.

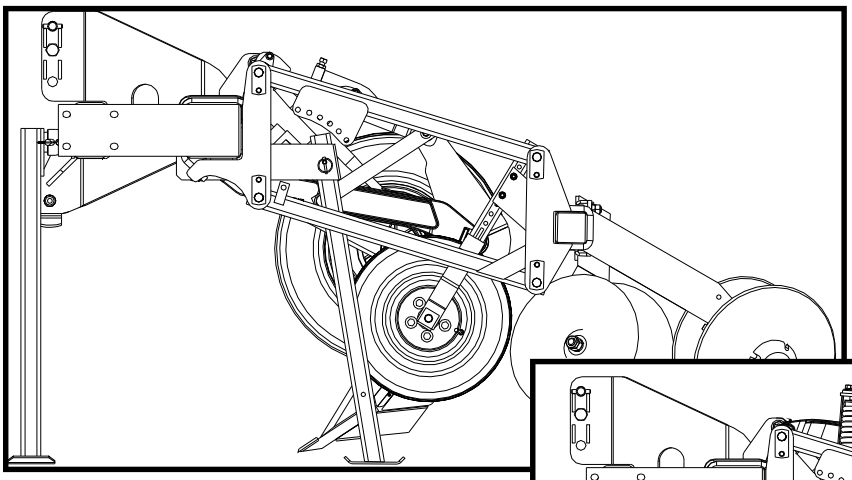
HIGH VOLTAGE SAFETY ACT

Georgia Law requires that anyone operating equipment within 10 feet of an overhead high voltage line of more than 750 volts, must contact the Utilities Protection Center (UPC) by telephone at least 72 hours before commencing the work. For more information call (811), toll free (1-800-282-7411) or visit on the web "www.gaupc.com". **Please** contact your local power company about laws before operating near high voltage lines.

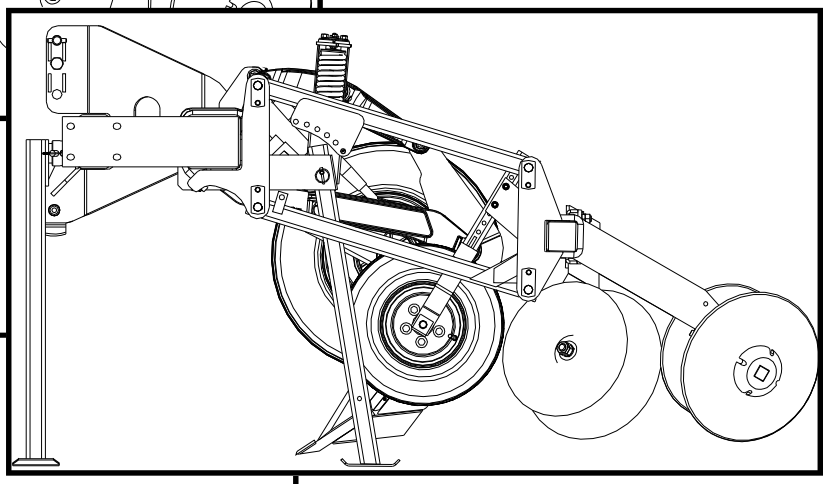
ASSEMBLY SET-UP

GENERAL:

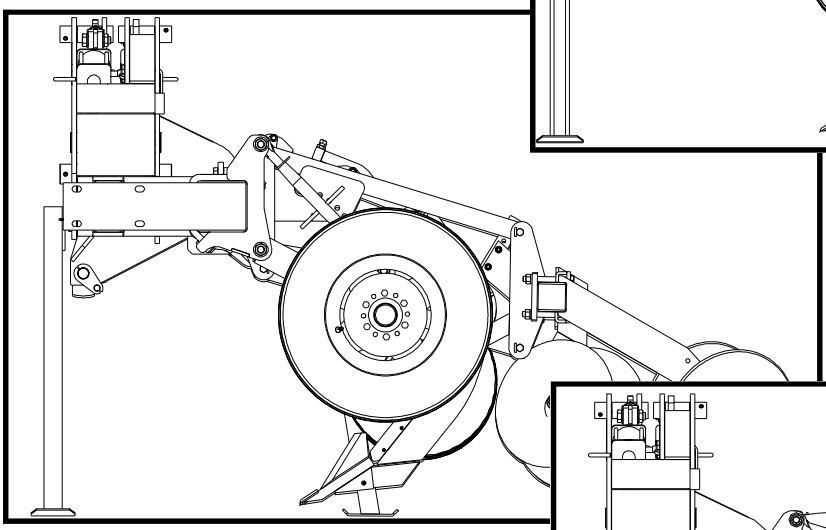
Most of the general set-up and assembly for your KMC Ripper Bedder has been performed at the factory. Those items not installed at KMC will be reviewed later in this section. For your convenience, please see the "Overhead Layouts" portion at the end of this section, to ensure proper positioning for the size and configuration of your KMC Ripper Bedder.



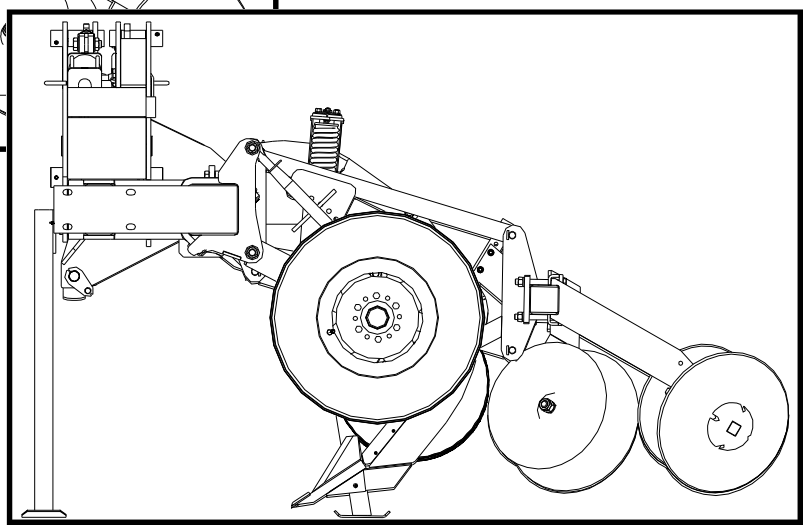
RIGID RIPPER BEDDER W/TOGGLE TRIP



RIGID RIPPER BEDDER W/RESET ON THE GO



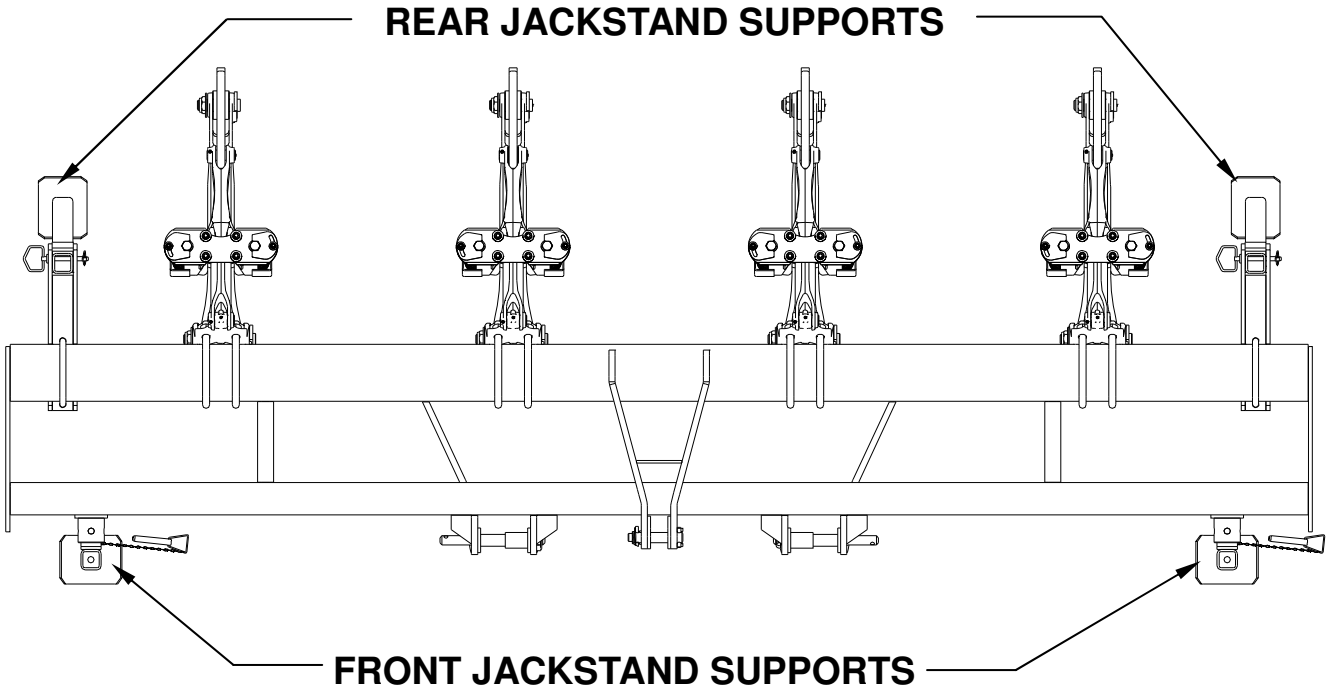
STACK-FOLD RIPPER BEDDER W/TOGGLE TRIP



STACK-FOLD RIPPER BEDDER W/RESET ON THE GO

WARNING

CARE SHOULD BE TAKEN DURING SET-UP AND ASSEMBLY OF THIS PRODUCT. DEATH OR SERIOUS INJURY COULD OCCUR IF PROPER STEPS ARE NOT TAKEN TO FULLY SECURE THE UNIT WHEN WORKING UNDERNEATH IT. ENSURE THE UNIT IS PROPERLY SUPPORTED BY LOWERING THE JACKSTAND SUPPORTS THAT HAVE COME ASSEMBLED WITH IT, OR PROPERLY SECURE THE UNIT WITH ANY HOISTING DEVICES BEFORE ATTEMPTING ANY FURTHER SET-UP OF THIS PRODUCT. ANY HOISTING DEVICES SHOULD BE RATED TO FULLY SUPPORT THE LOAD OF THE UNIT BEING LIFTED.



! IMPORTANT !

Before set-up and assembly can be completed ensure that all hardware is in place and fully tightened. Refer to the **Bolt Torque Chart** at right for proper torque values.

BOLT TORQUE CHART

SAE GRADE 5

Diameter & Threads Per Inch	Tensile Strength Min. PSI	Proof Load LB	Clamp Load LB	Torque Dry FT LB	Lubricated FT LB
1/4-20	120,000	2,700	2,020	8	6.3
1/4-28	120,000	3,100	2,320	10	7.2
5/16-18	120,000	4,450	3,340	17	13
5/16-24	120,000	4,900	3,700	19	14
3/8-16	120,000	6,600	4,950	30	23
3/8-24	120,000	7,450	5,600	35	25
7/16-14	120,000	9,050	6,780	50	35
7/16 20	120,000	10,100	7,570	55	40
1/2-13	120,000	12,100	9,050	75	55
1/2-20	120,000	13,600	10,200	85	65
9/16-12	120,000	15,500	11,600	110	80
9/16-18	120,000	17,300	12,950	120	90
5/8-11	120,000	19,200	14,400	150	110
5/8-18	120,000	21,800	16,350	170	130
3/4-10	120,000	28,400	21,300	260	200
3/4-16	120,000	31,700	23,780	300	220
7/8-9	120,000	39,300	29,450	430	320
7/8 14	120,000	43,300	32,450	470	350
1-8	120,000	51,500	38,600	640	480
1-14	120,000	57,700	43,300	720	540

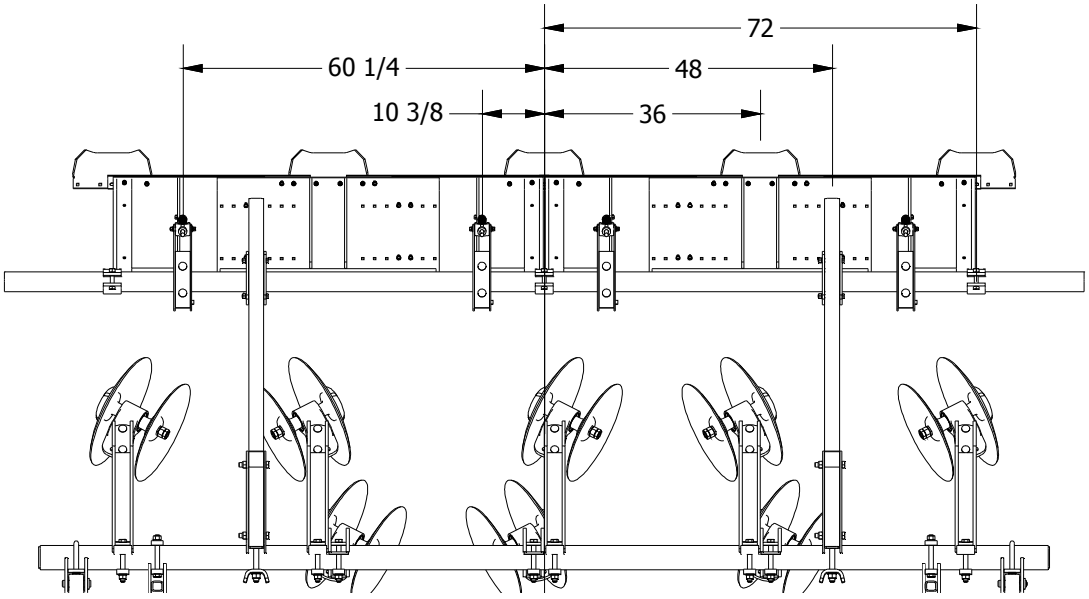
SAE GRADE 8

Diameter & Threads Per Inch	Tensile Strength Min. PSI	Proof Load LB	Clamp Load LB	Torque Dry FT LB	Lubricated FT LB
1/4-20	150,000	3,800	2,850	12	9
1/4-28	150,000	4,350	3,250	14	10
5/16-18	150,000	6,300	4,700	24	18
5/16-24	150,000	6,950	5,200	27	20
3/8-16	150,000	9,300	6,980	45	35
3/8-24	150,000	10,500	7,900	50	35
7/16-14	150,000	12,800	9,550	70	50
7/16 20	150,000	14,200	10,650	80	60
1/2-13	150,000	17,000	12,750	110	80
1/2-20	150,000	19,200	14,400	120	90
9/16-12	150,000	21,800	16,350	150	110
9/16-18	150,000	24,400	18,250	170	130
5/8-11	150,000	27,100	20,350	210	160
5/8-18	150,000	30,700	23,000	240	180
3/4-10	150,000	40,100	30,100	380	280
3/4-16	150,000	44,800	33,500	420	310
7/8-9	150,000	55,400	41,600	600	450
7/8 14	150,000	61,100	45,800	670	500
1-8	150,000	72,700	54,500	910	680
1-14	150,000	81,500	61,100	1,020	760

OVERHEAD LAYOUTS

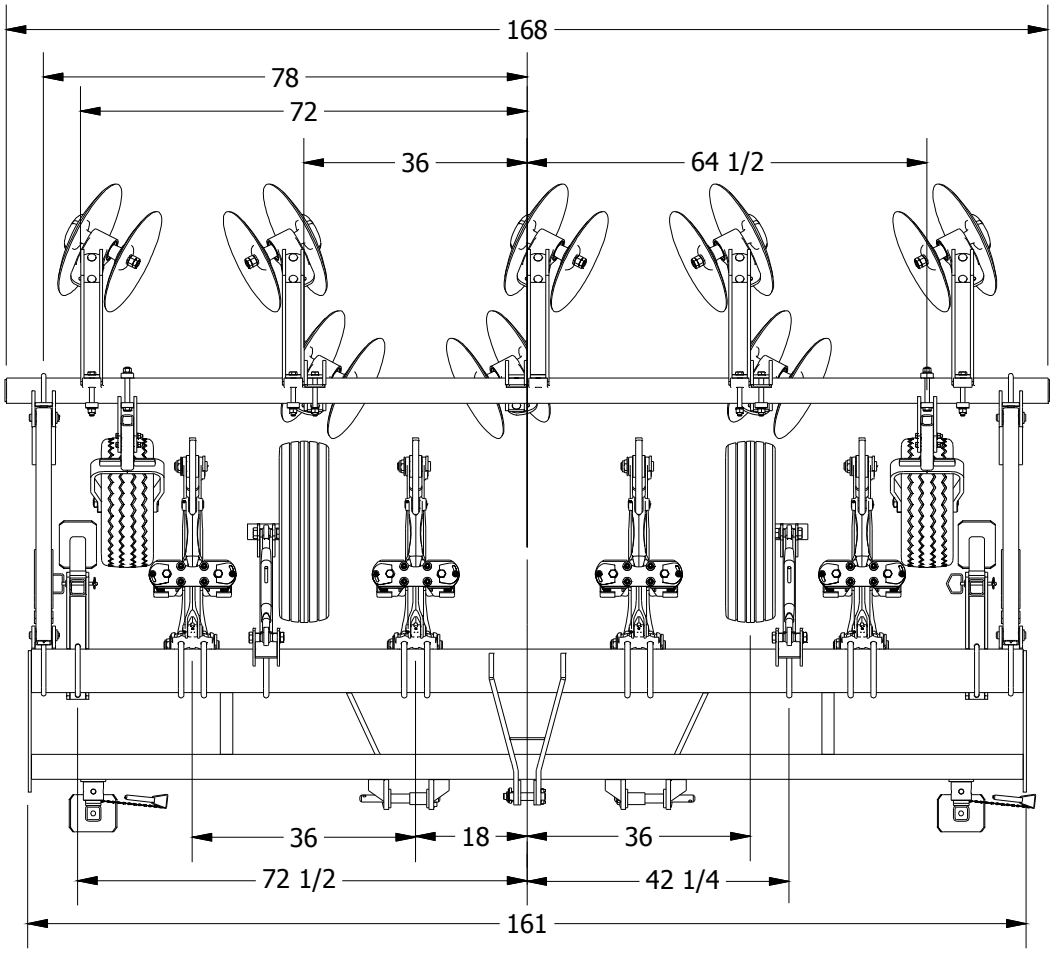
4-ROW 36" RIPPER BEDDERS W/BEDDER DOORS

(68-04-36-R) +(4R-(36-40)BS)



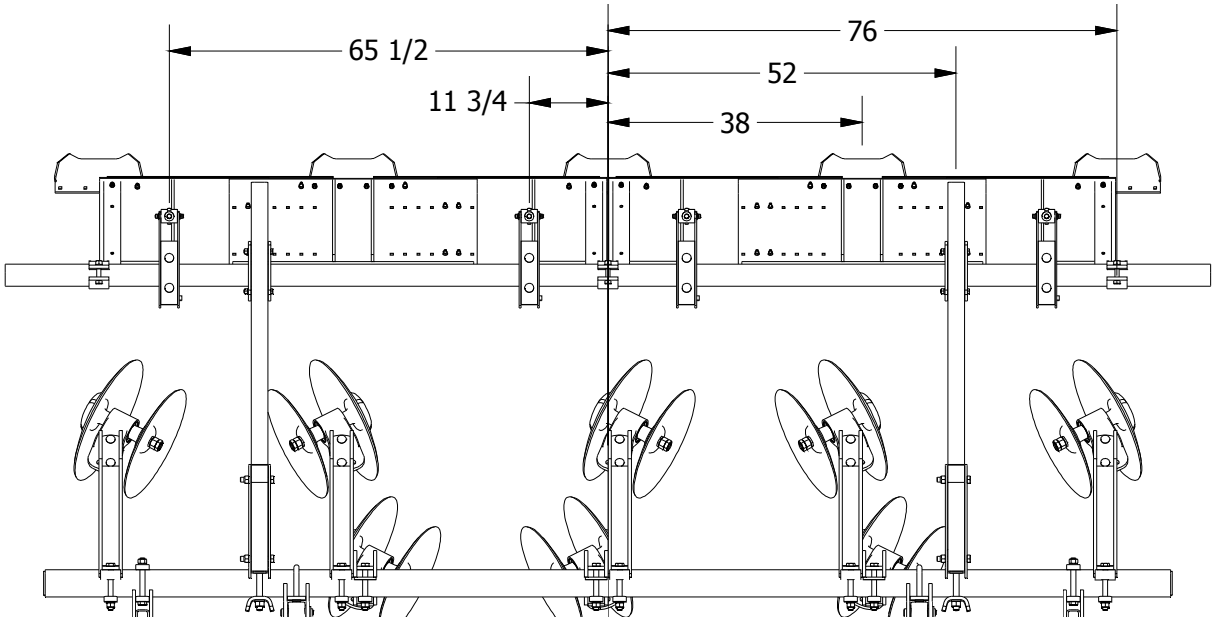
4-ROW 36" RIPPER BEDDERS

(68-04-36-R) (Shown with Reset-on-the-Go Shanks)



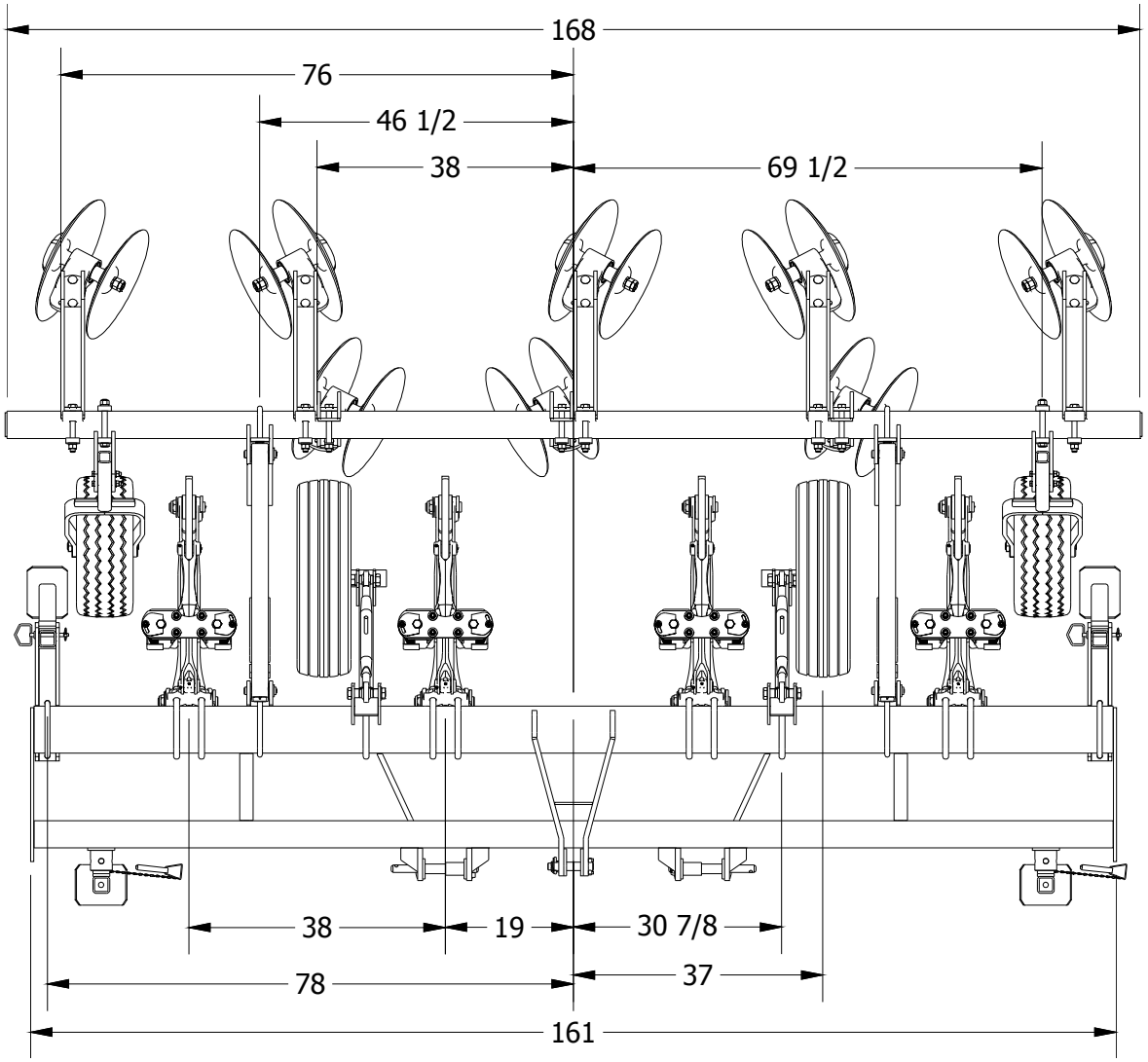
4-ROW 38” RIPPER BEDDERS W/BEDDER DOORS

(68-04-38-R) +(4R-(36-40)BS)



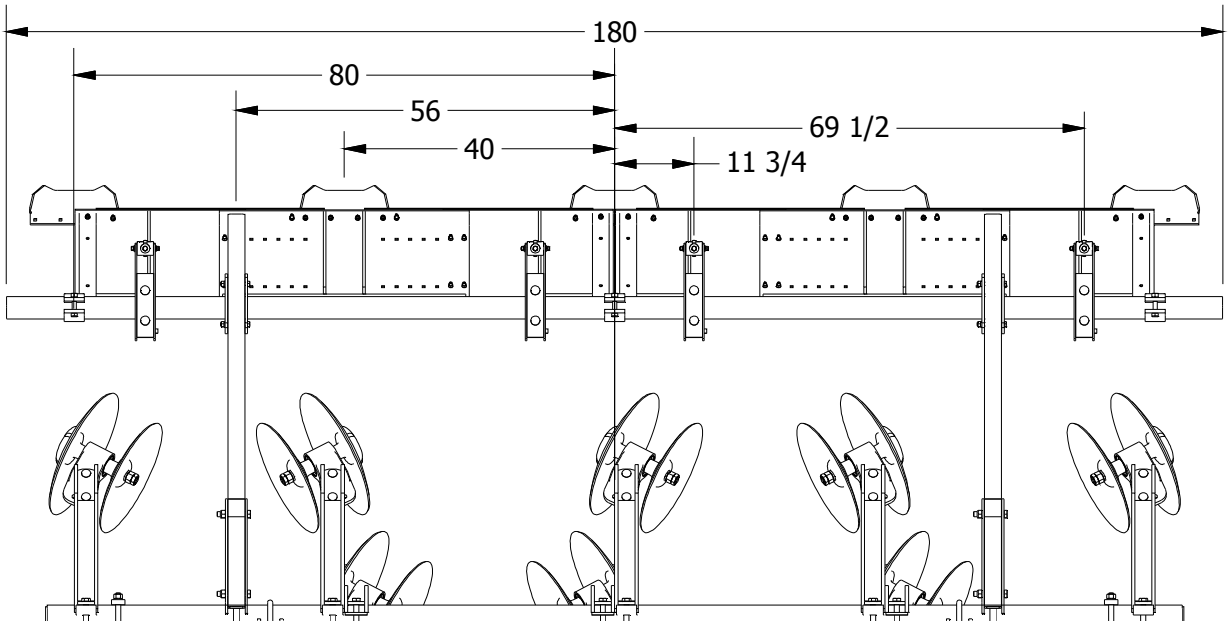
4-ROW 38” RIPPER BEDDERS

(68-04-38-R) (Shown with Reset-on-the-Go Shanks)



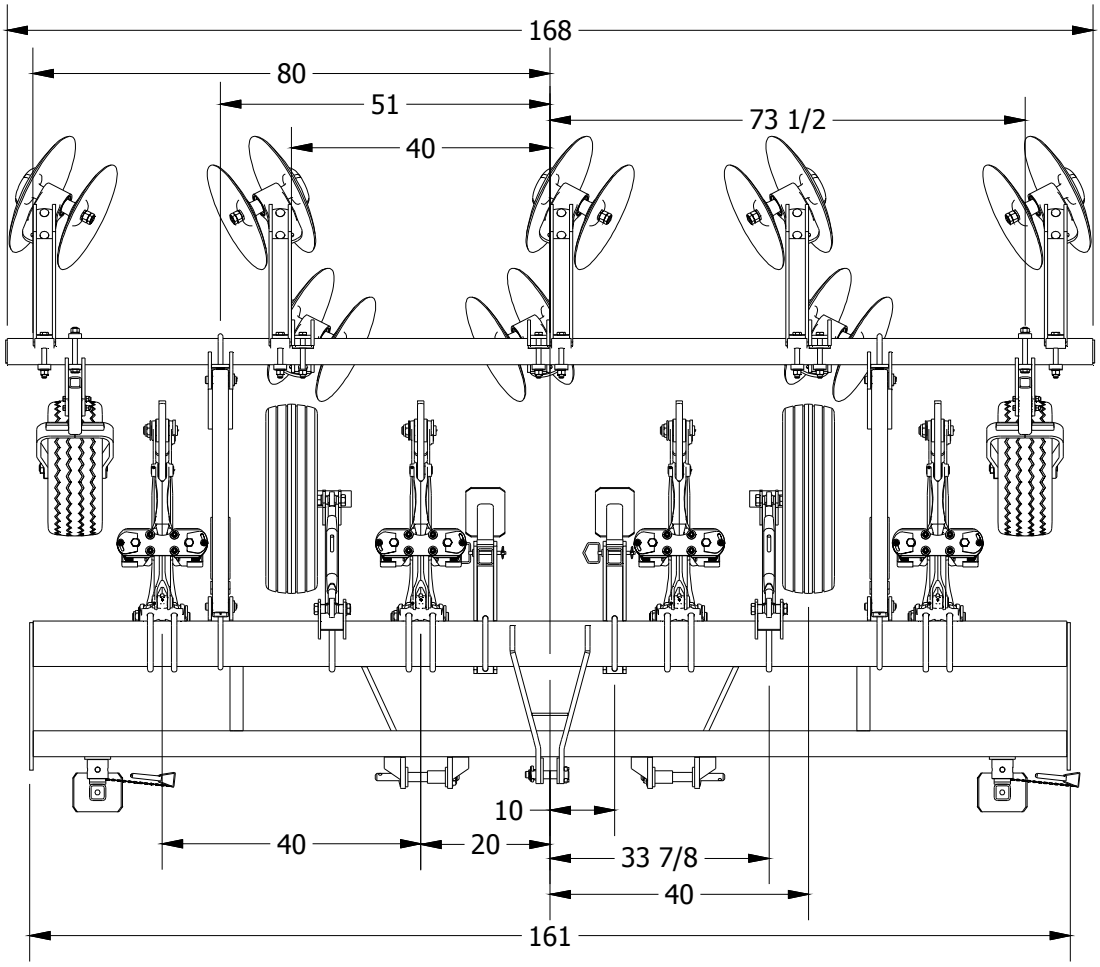
4-ROW 40” RIPPER BEDDERS W/BEDDER DOORS

(68-04-40-R) +(4R-(36-40)BS)



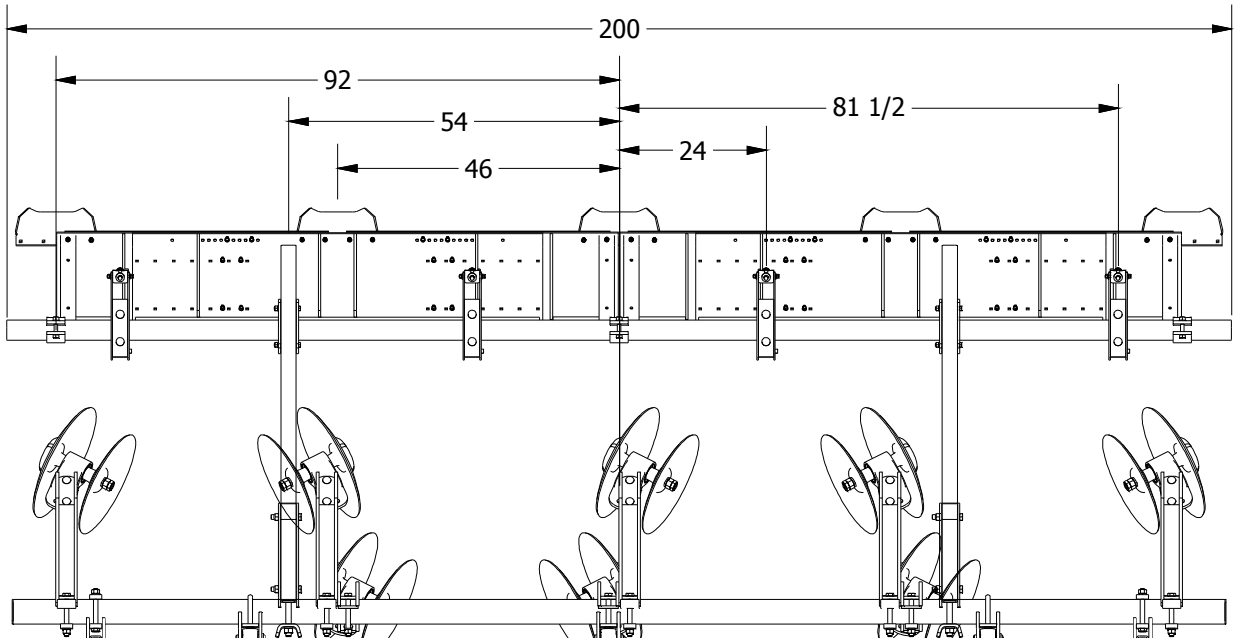
4-ROW 40” RIPPER BEDDERS

(68-04-40-R) (Shown with Reset-on-the-Go Shanks)



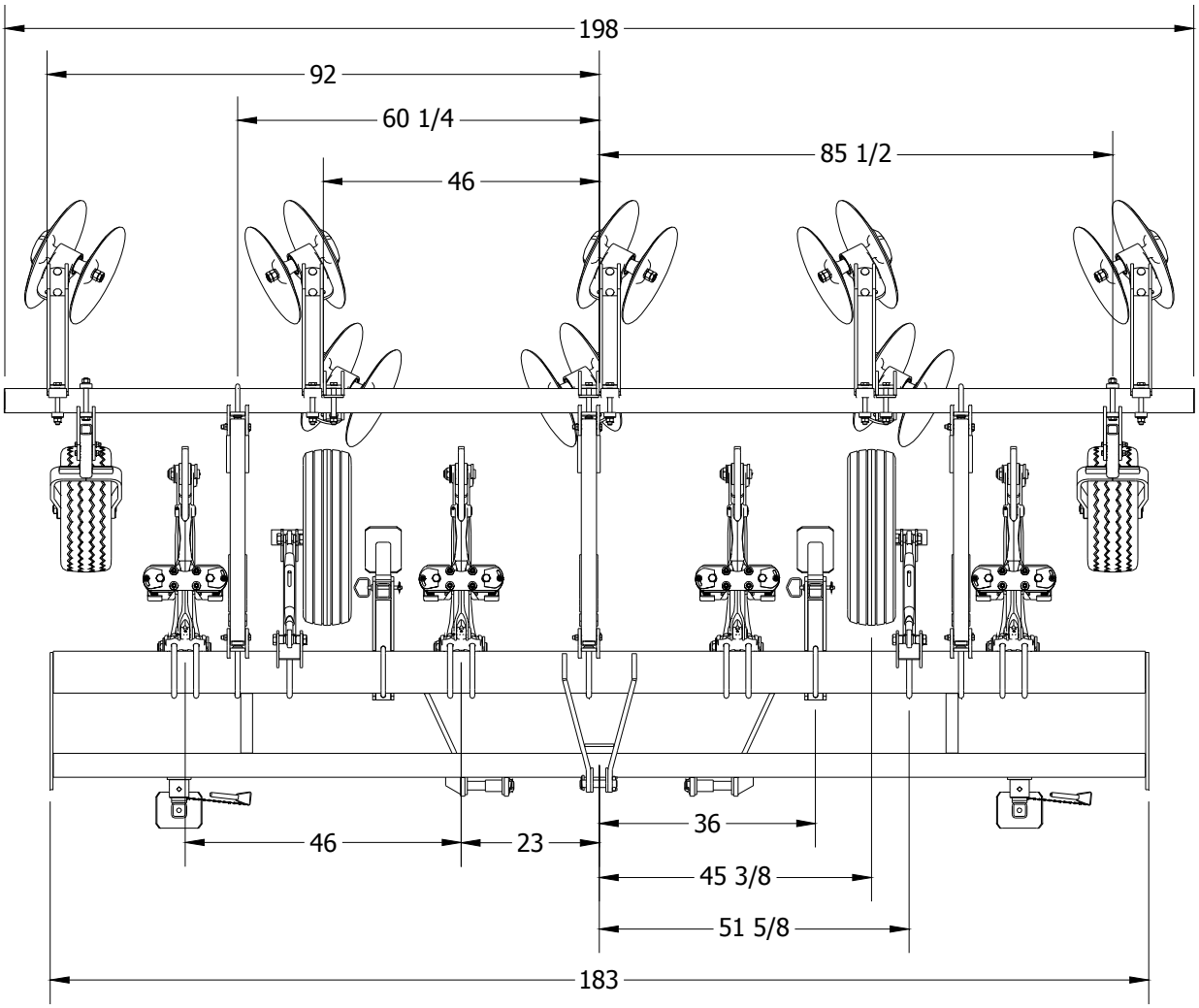
4-ROW 46” RIPPER BEDDERS W/BEDDER DOORS

(68-04-46-R) +(4R-46BS)



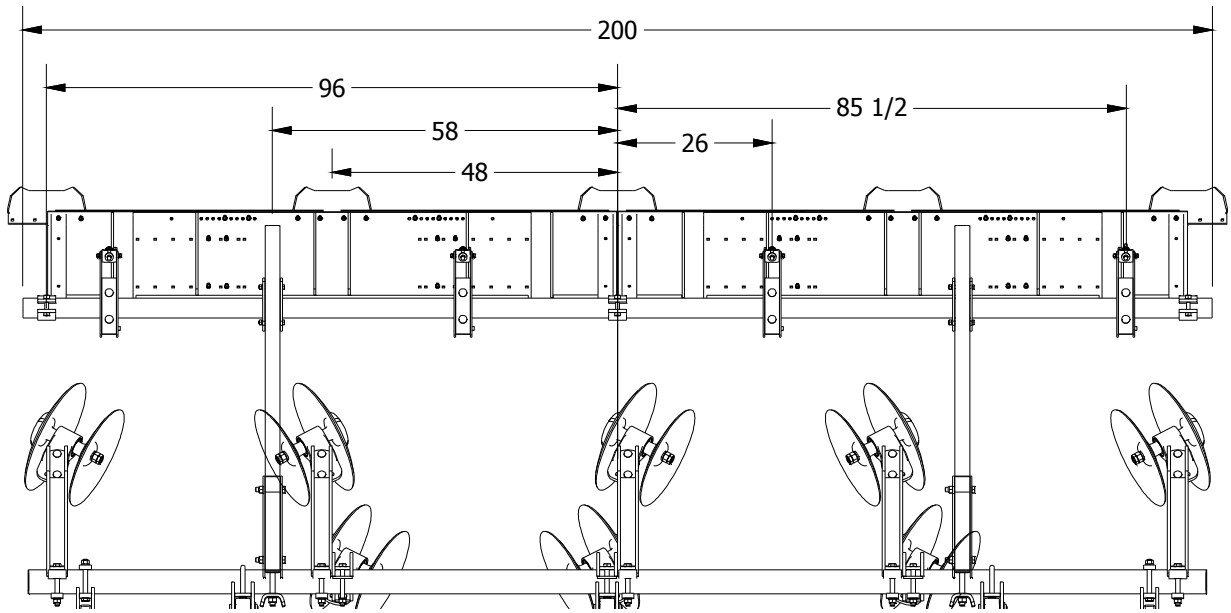
4-ROW 46” RIPPER BEDDERS

(68-04-46-R) (Shown with Reset-on-the-Go Shanks)



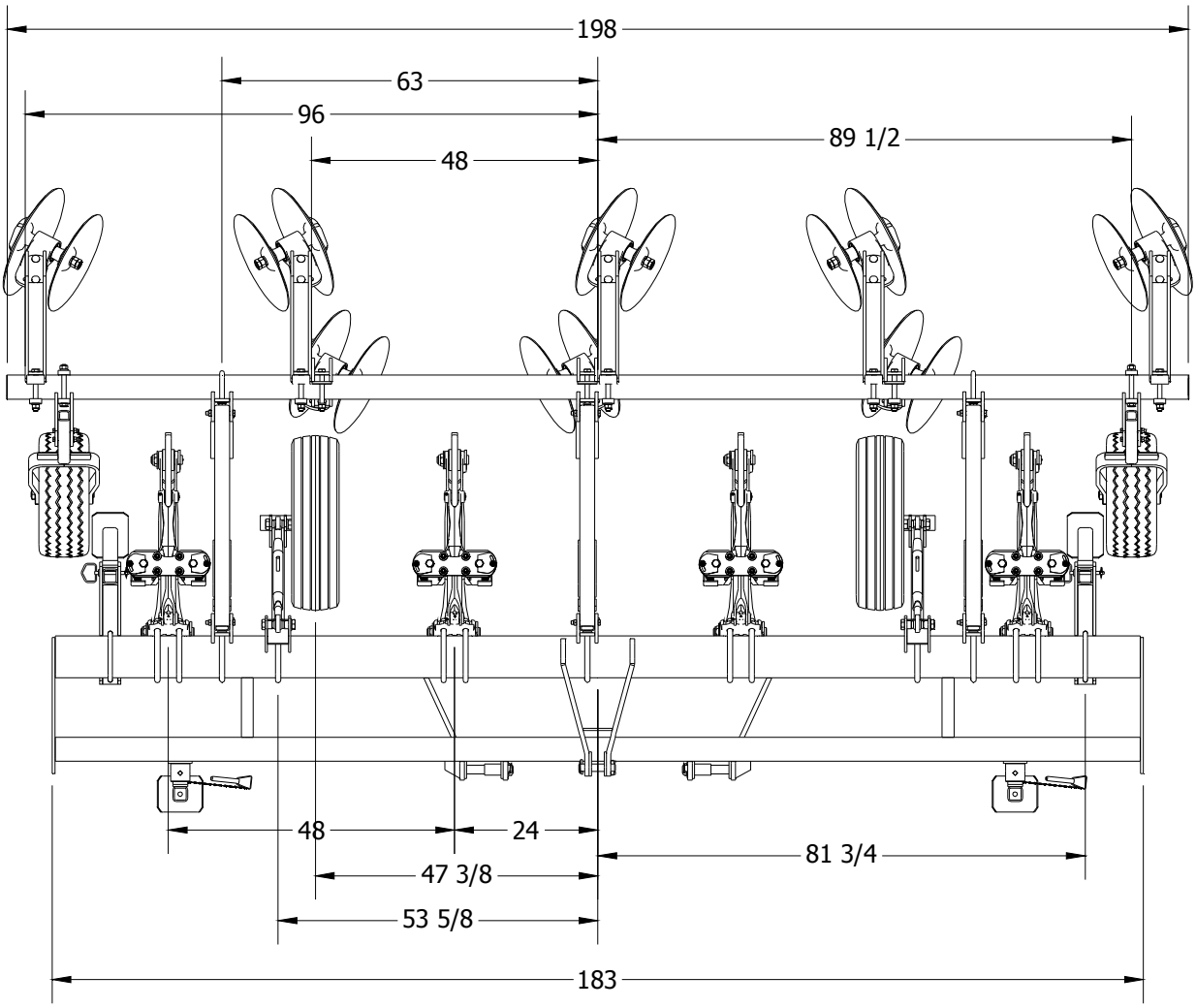
4-ROW 48” RIPPER BEDDERS W/BEDDER DOORS

(68-04-48-R) +(4R-48BS)



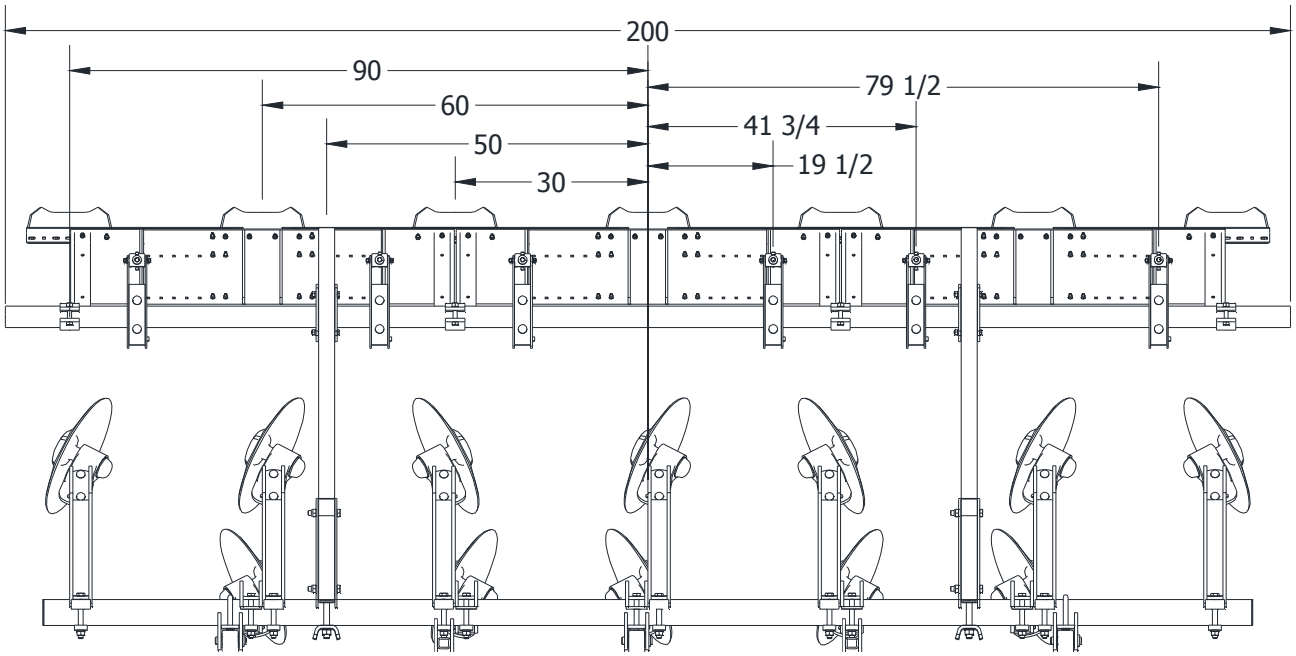
4-ROW 48” RIPPER BEDDERS

(68-04-48-R) (Shown with Reset-on-the-Go Shanks)



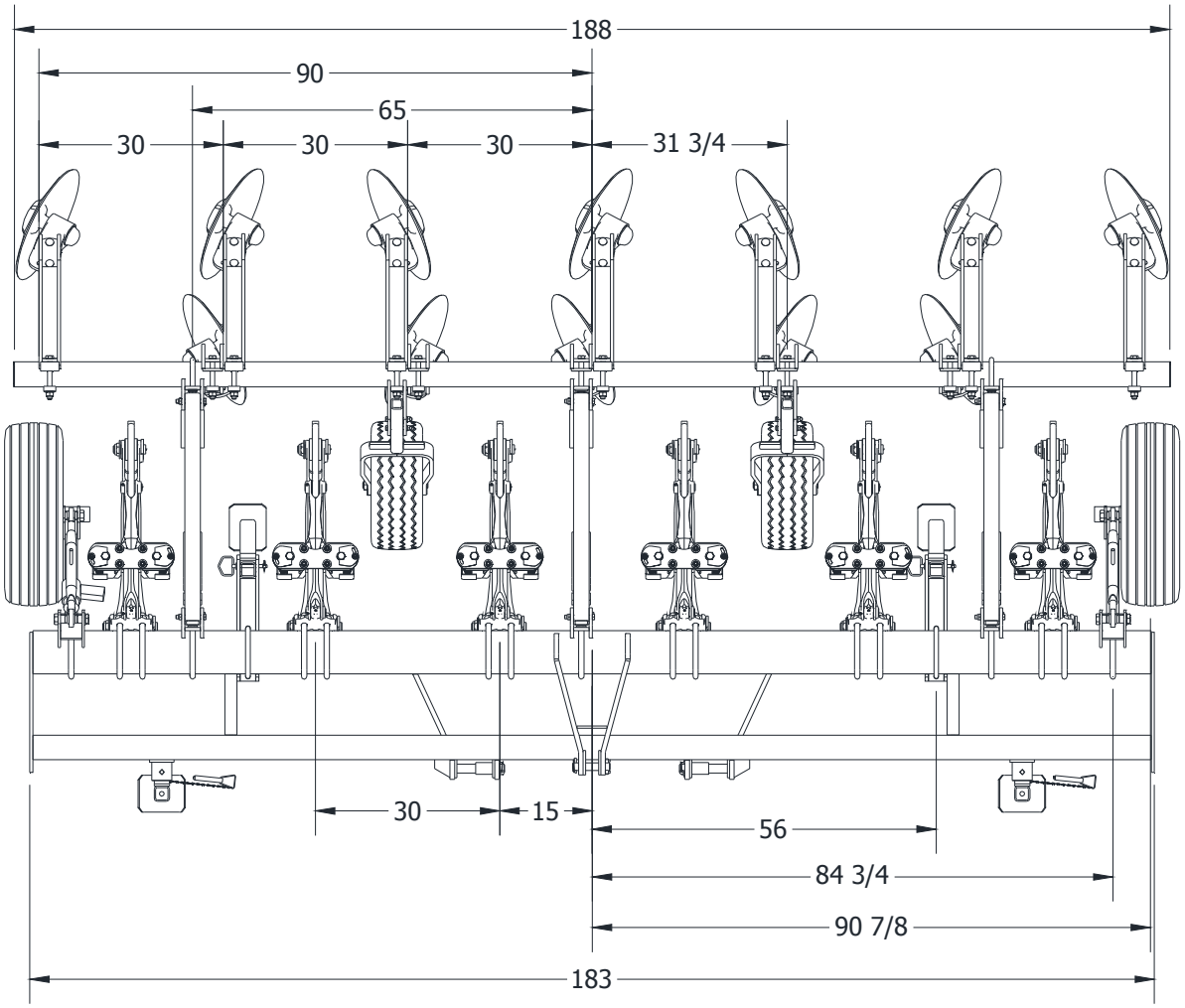
6-ROW 30” RIPPER BEDDERS W/BEDDER DOORS

(68-06-30-R)+(6R-30BS)



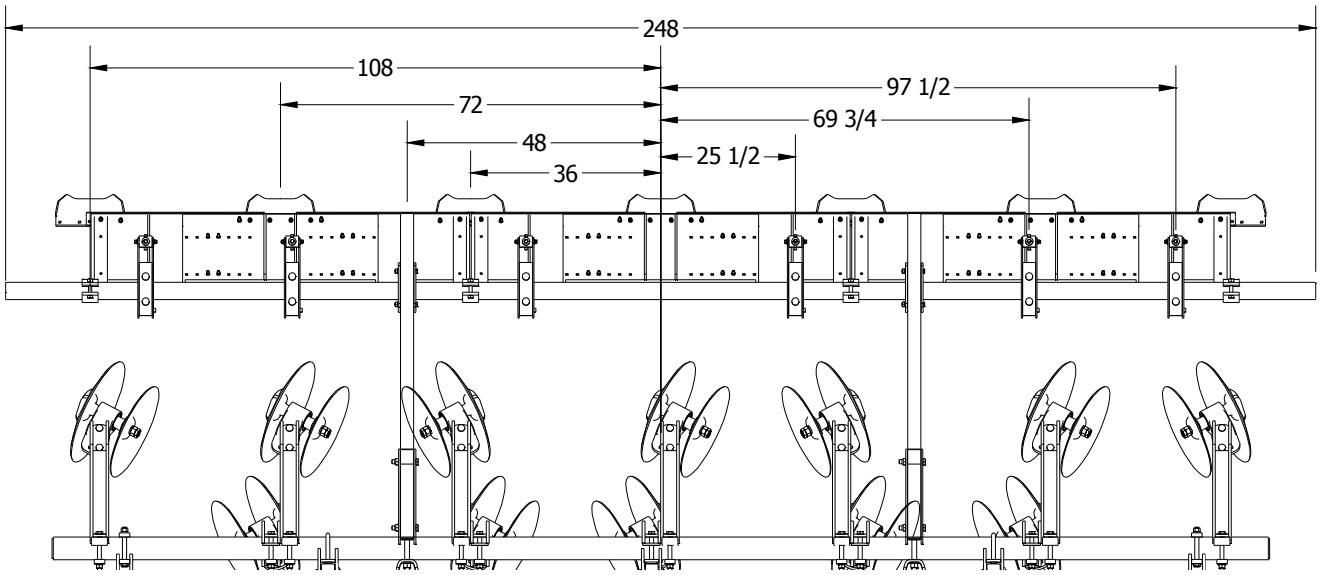
6-ROW 30” RIPPER BEDDERS

(68-06-30-R) (Shown with Reset-on-the-Go Shanks)



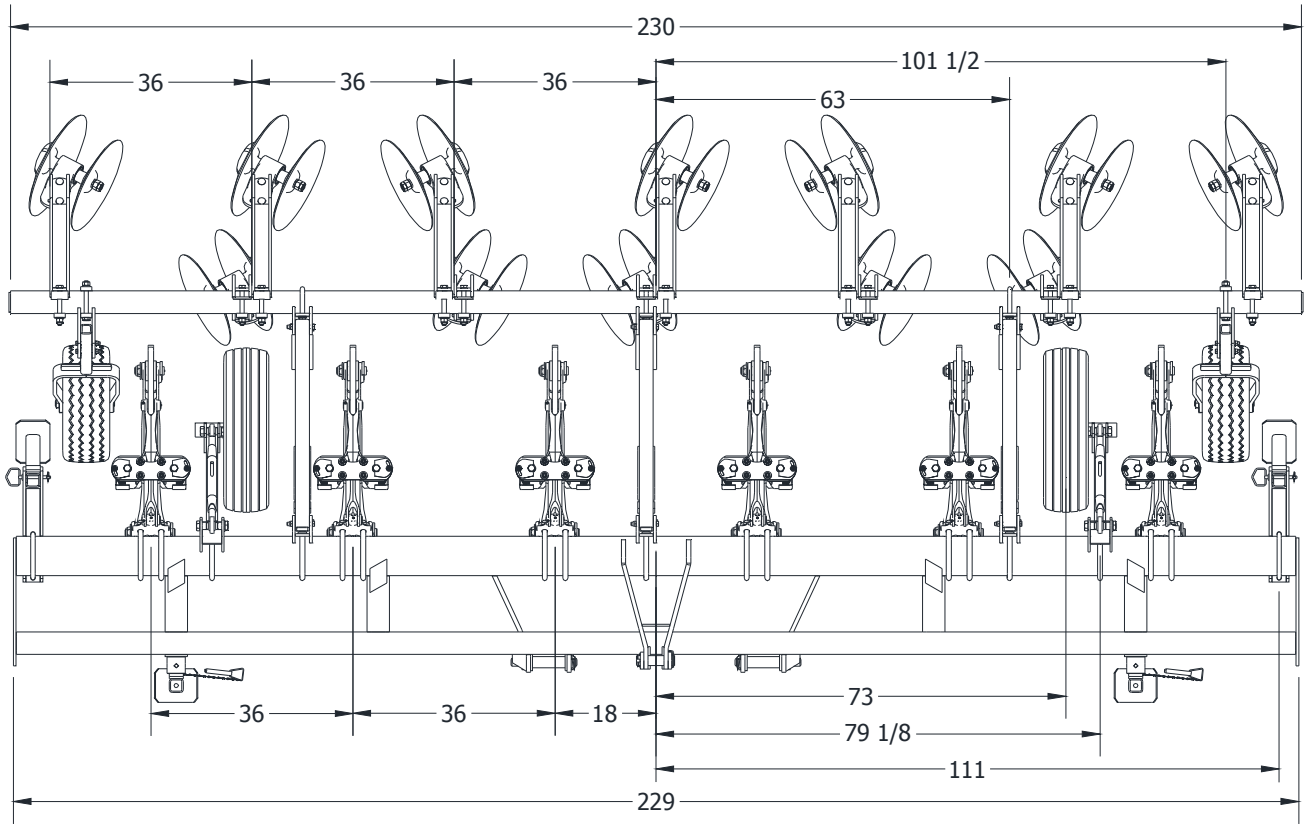
6-ROW 36” RIPPER BEDDERS W/BEDDER DOORS

(68-06-36-R) +(6R-(36-40)BS)



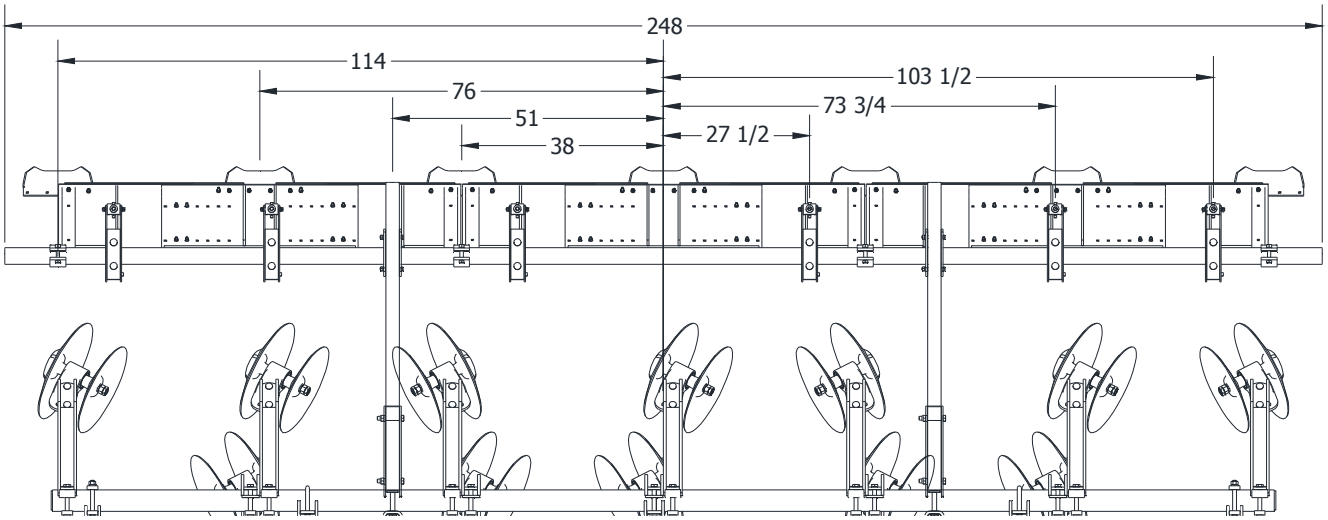
6-ROW 36” RIPPER BEDDERS

(68-06-36-R) (Shown with Reset-on-the-Go Shanks)



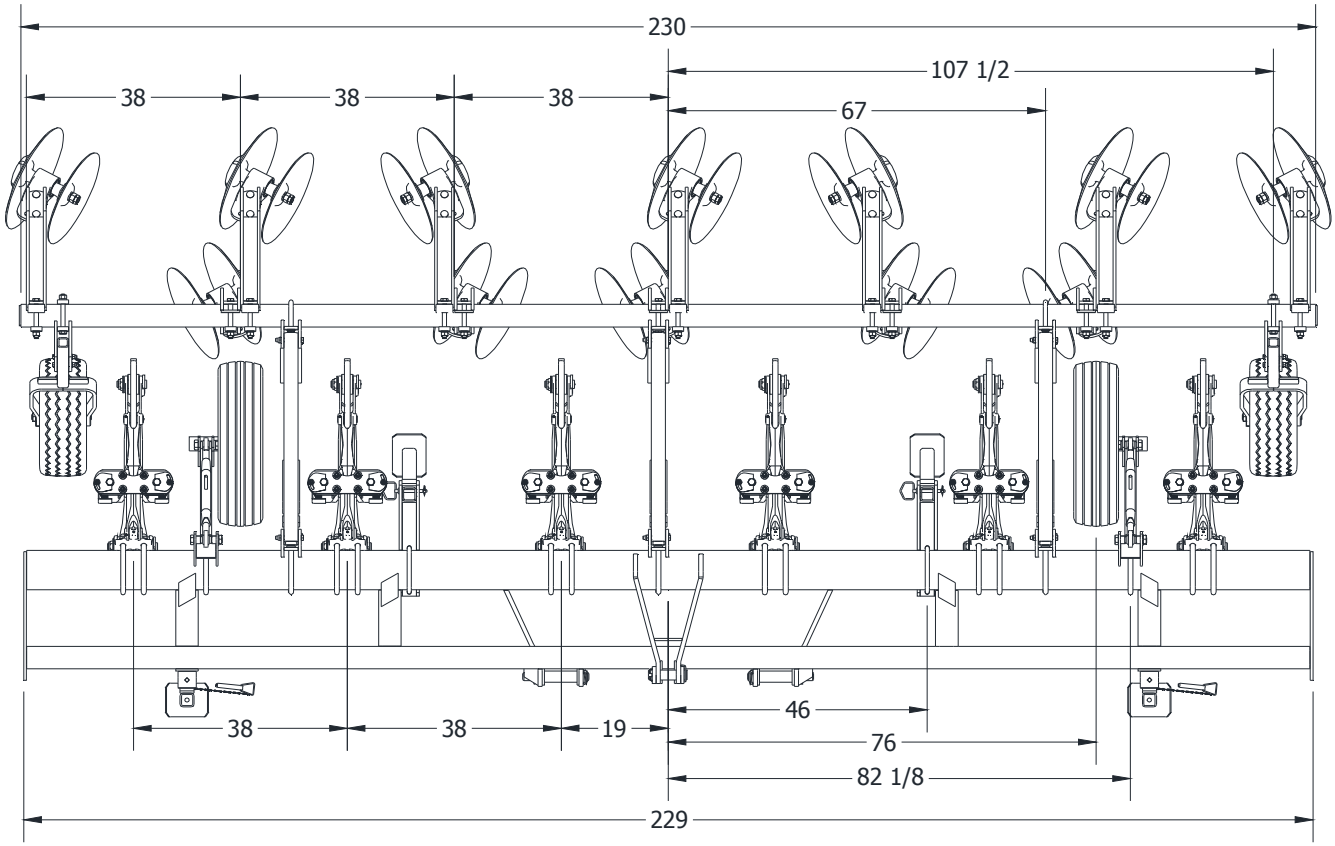
6-ROW 38” RIPPER BEDDERS W/BEDDER DOORS

(68-06-38-R) +(6R-(36-40)BS)



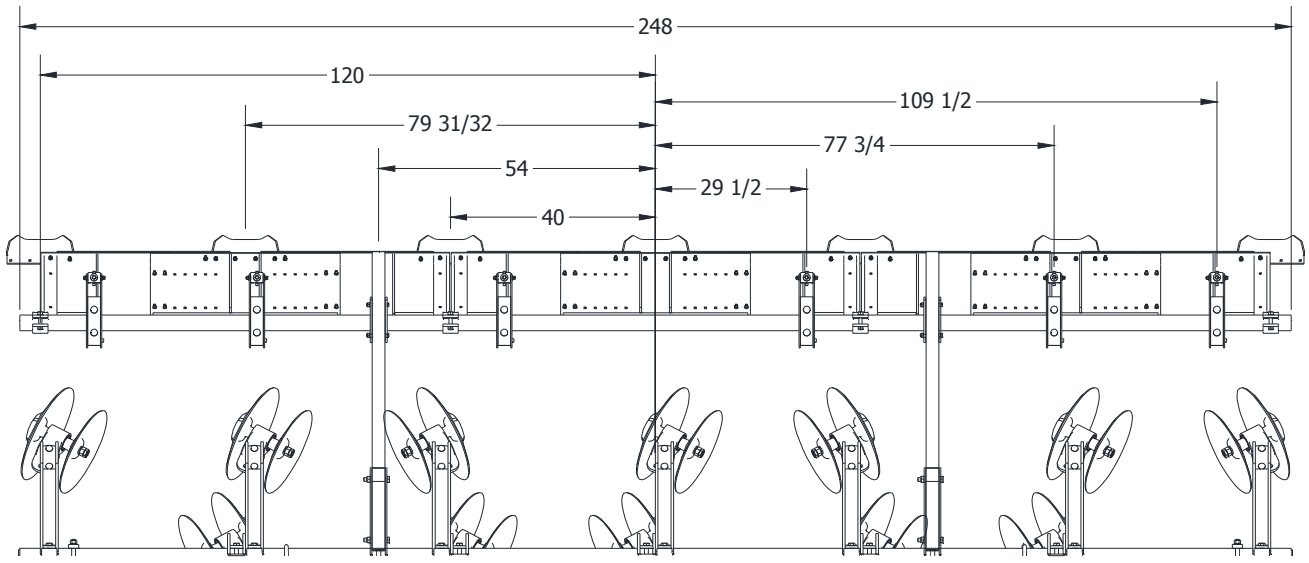
6-ROW 38” RIPPER BEDDERS

(68-06-38-R) (Shown with Reset-on-the-Go Shanks)



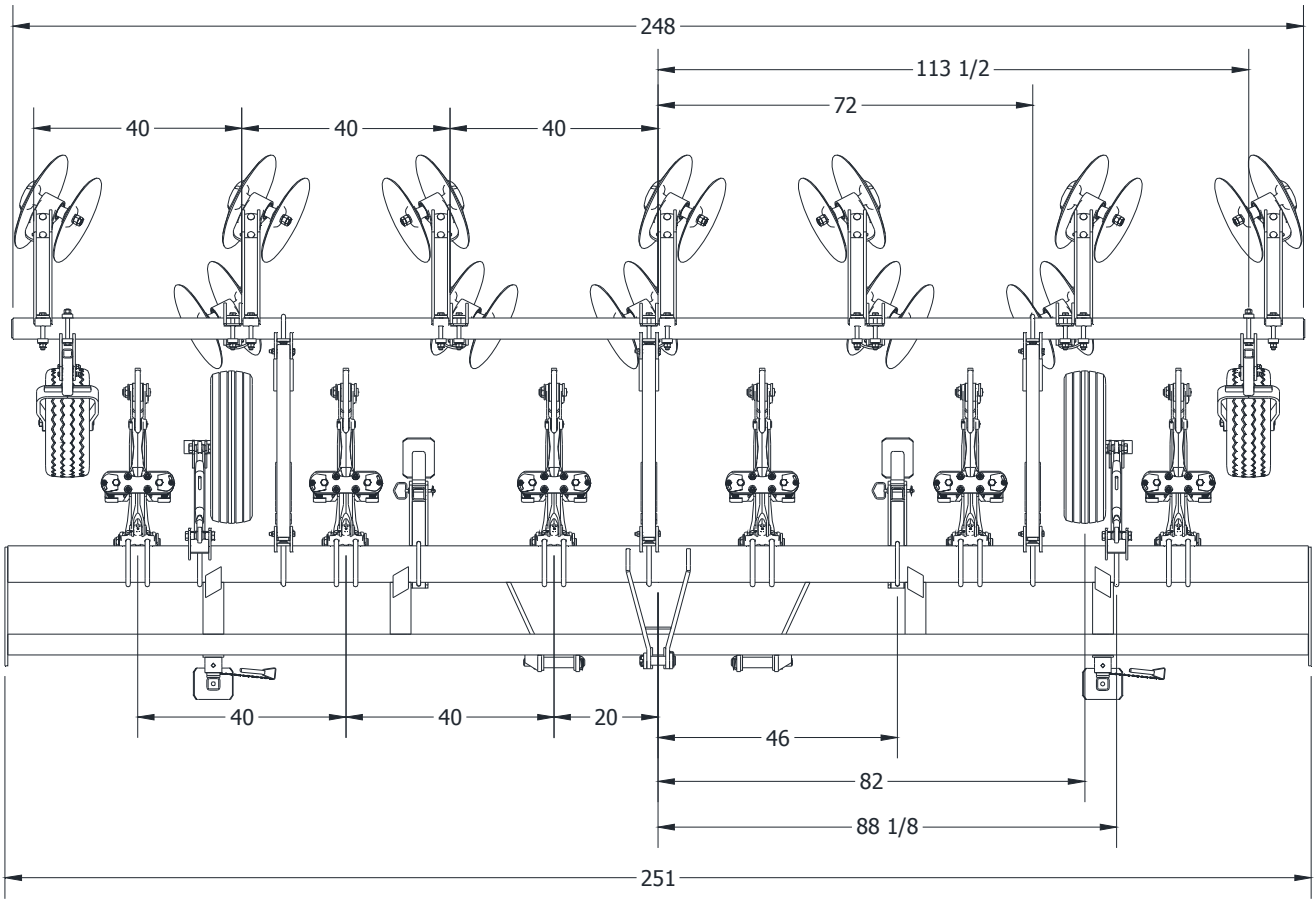
6-ROW 40” RIPPER BEDDERS W/BEDDER DOORS

(68-06-40-R) +(6R-(36-40)Bs)



6-ROW 40” RIPPER BEDDERS

(68-06-40-R) (Shown with Reset-on-the-Go Shanks)



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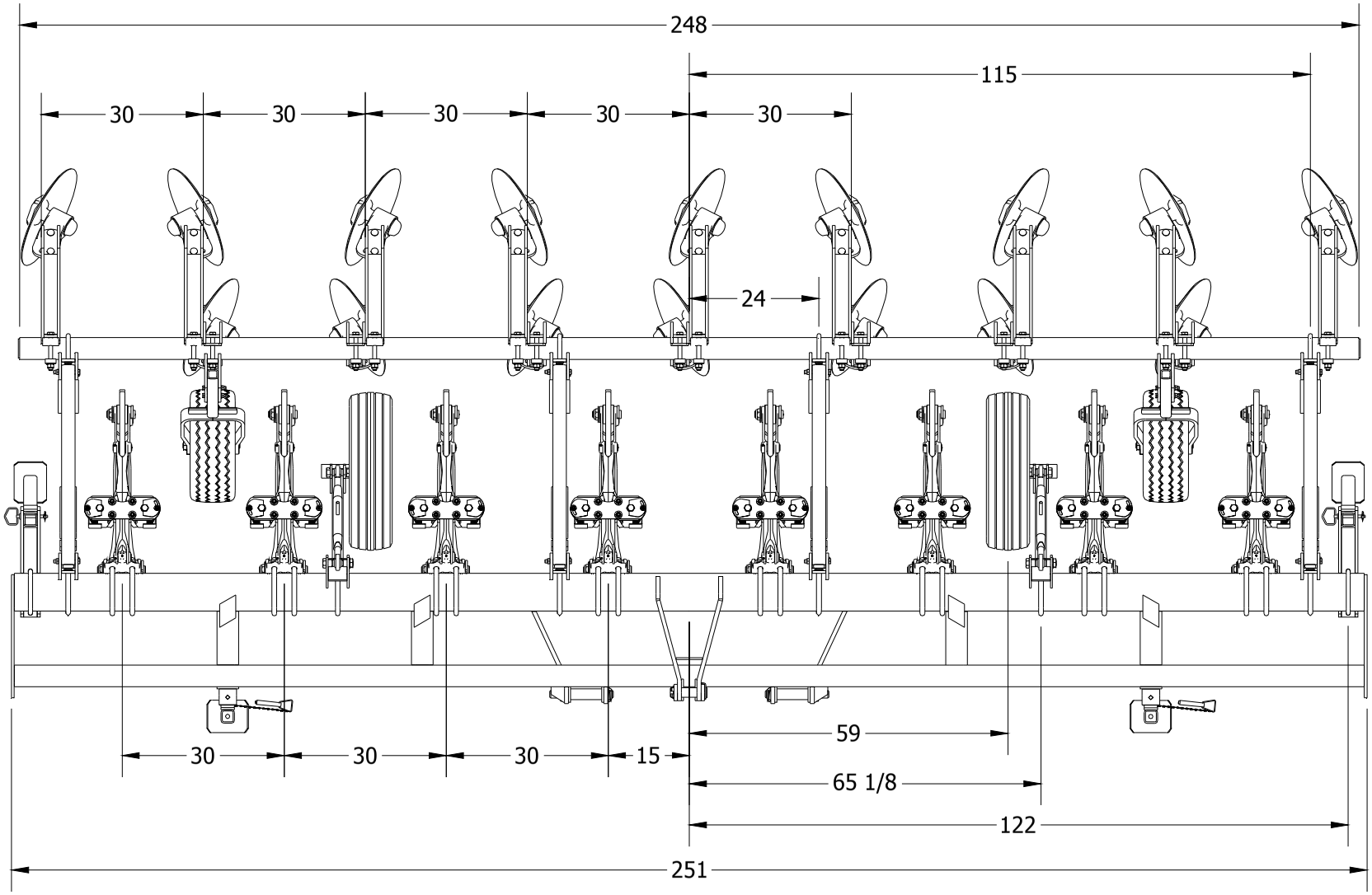
PAGE

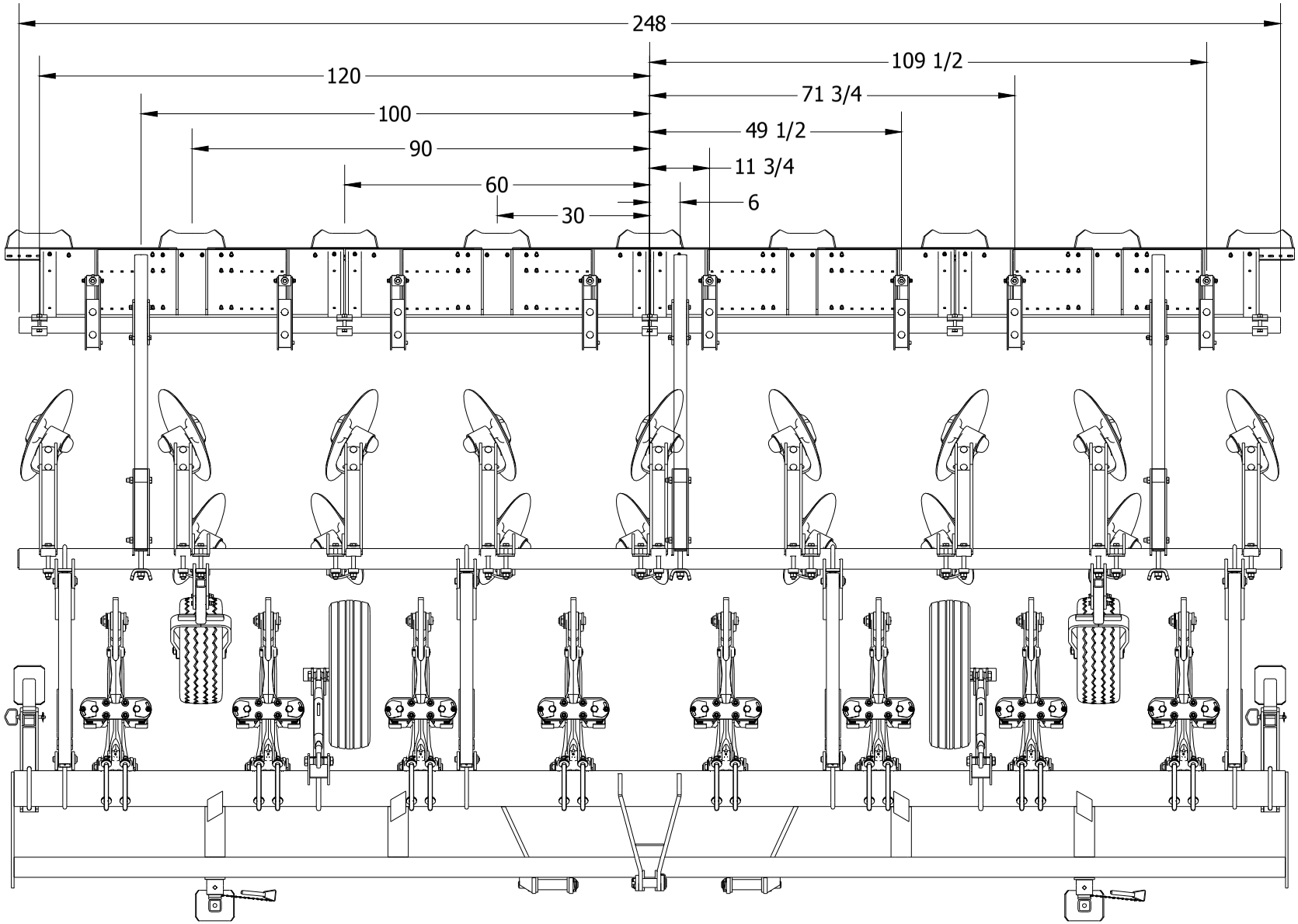
8-ROW 30” RIPPER BEDDERS

(68-08-30-R) (Shown with Reset-on-the-Go Shanks)

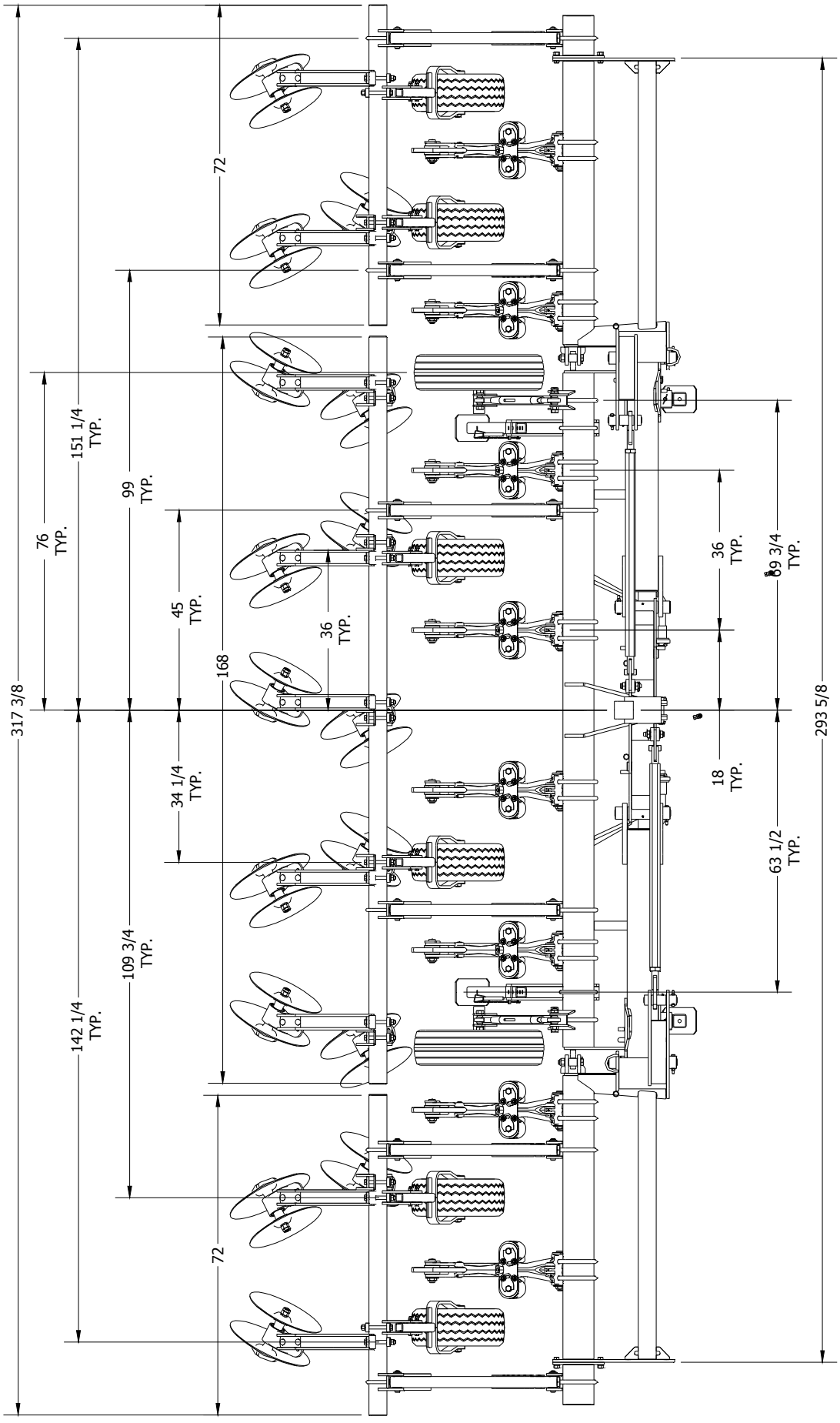


8-ROW 30” RIPPER BEDDERS W/BEDDER DOORS

(68-08-30-R)+(8R-30BS) (Shown with Reset-on-the-Go Shanks)

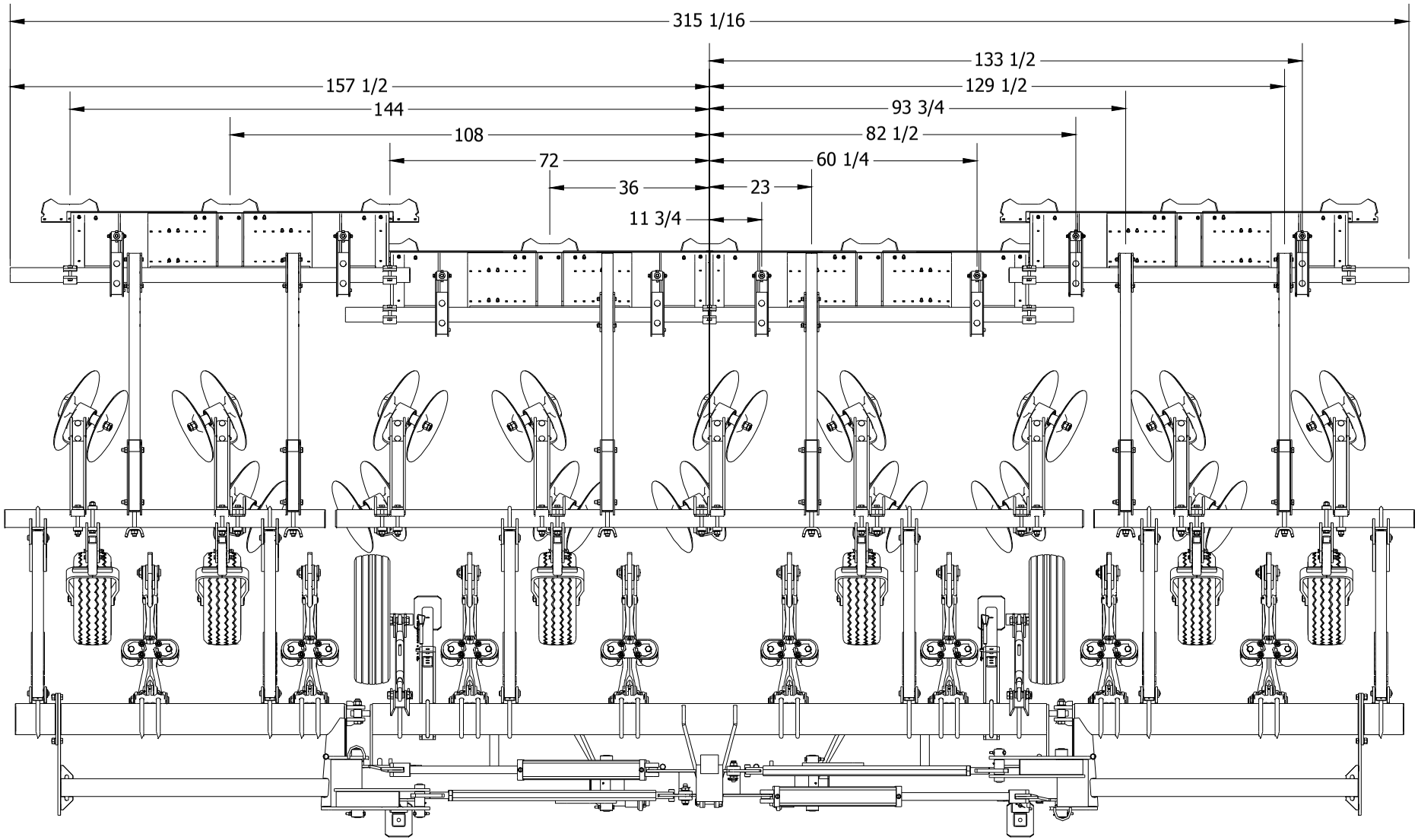


8-ROW 36’ STACK-FOLD RIPPER BEDDERS
(68-08-36-R) (Shown with Reset-on-the-Go Shanks)



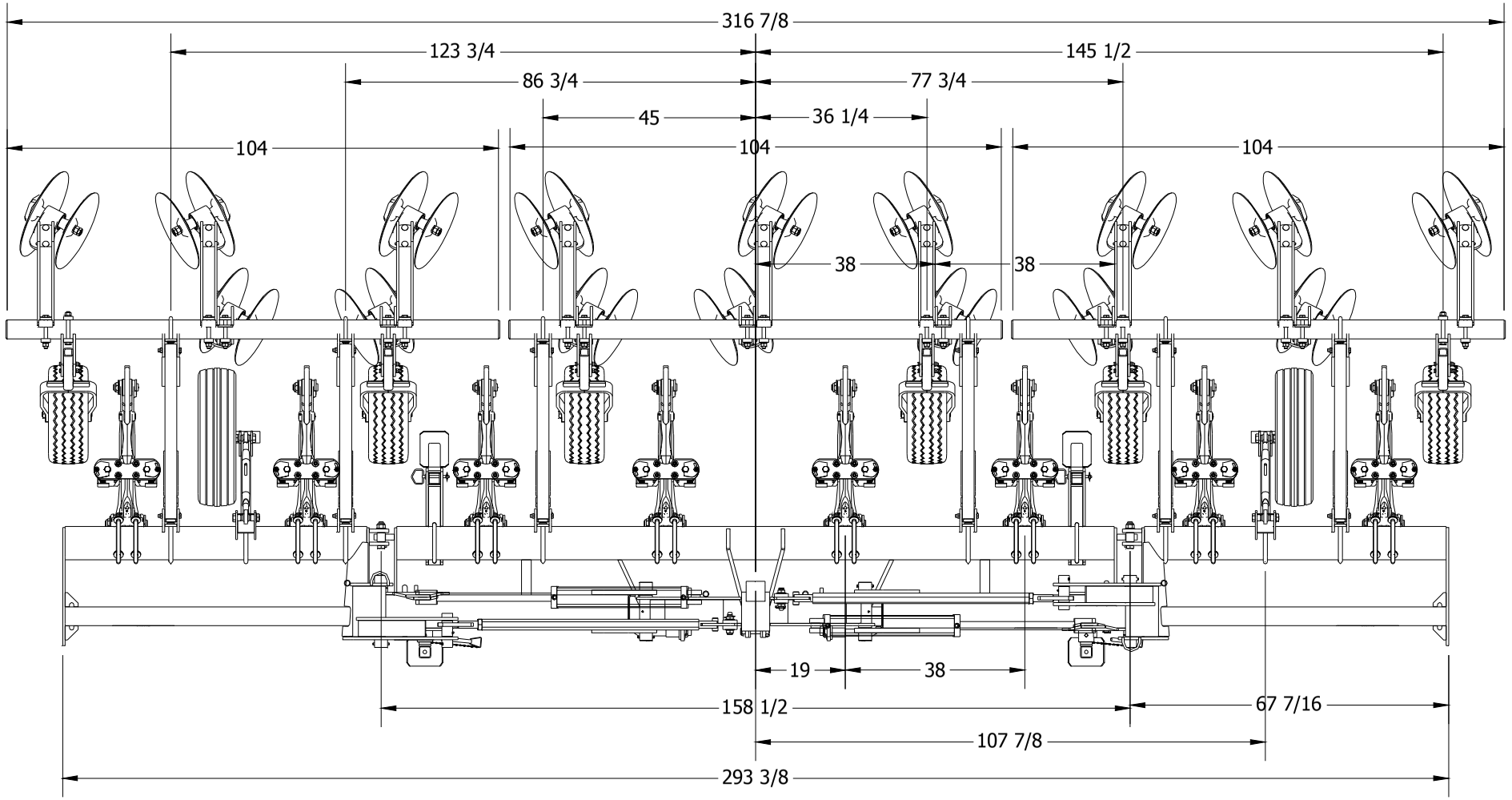
8-ROW 36” STACK-FOLD RIPPER BEDDERS W/BEDDER DOORS

(68-08-36-R)+(8R-(36-40)F-BS (Shown with Reset-on-the-Go Shanks)



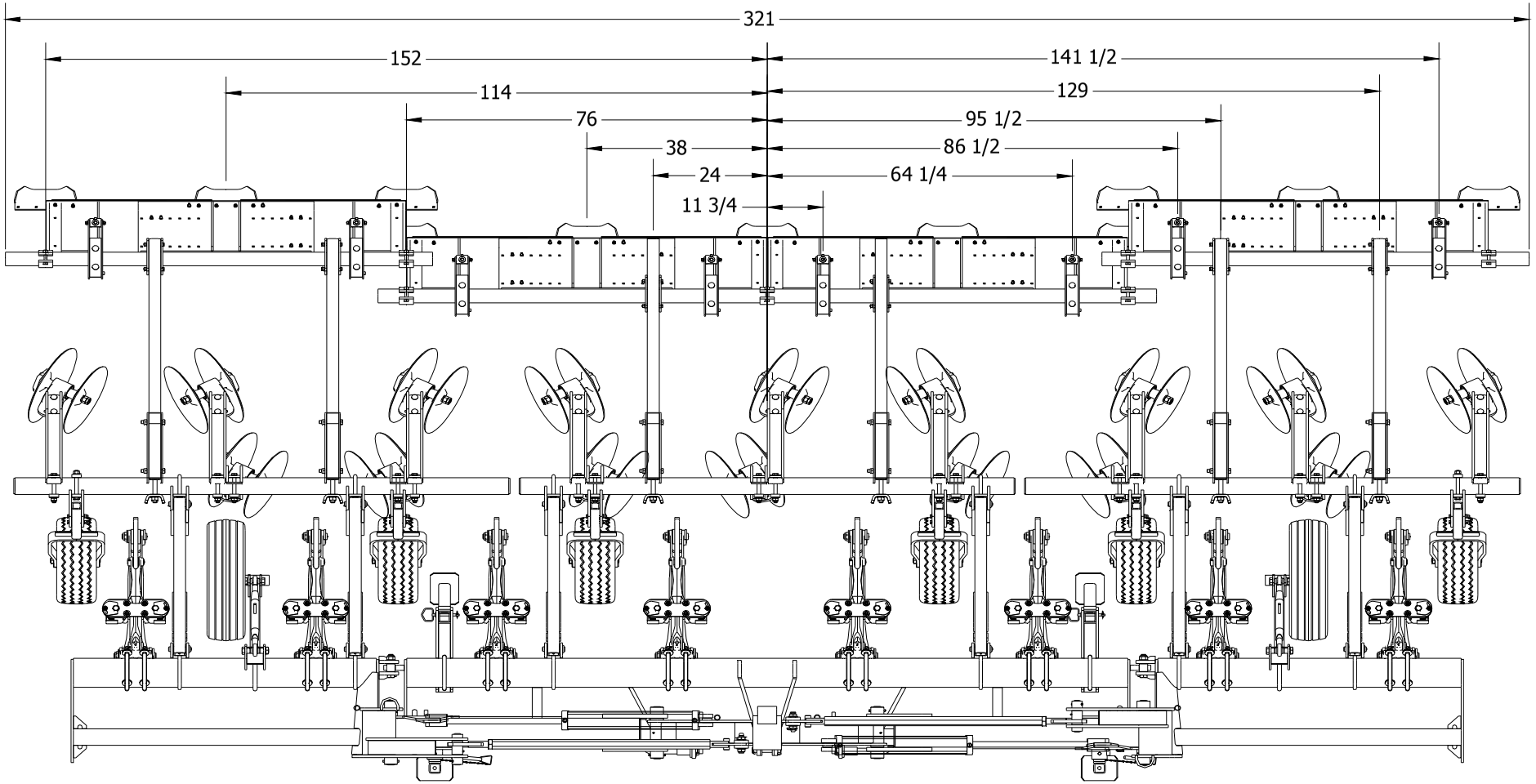
8-ROW 38” STACK-FOLD RIPPER BEDDERS

(68-08-38-R) (Shown with Reset-on-the-Go Shanks)



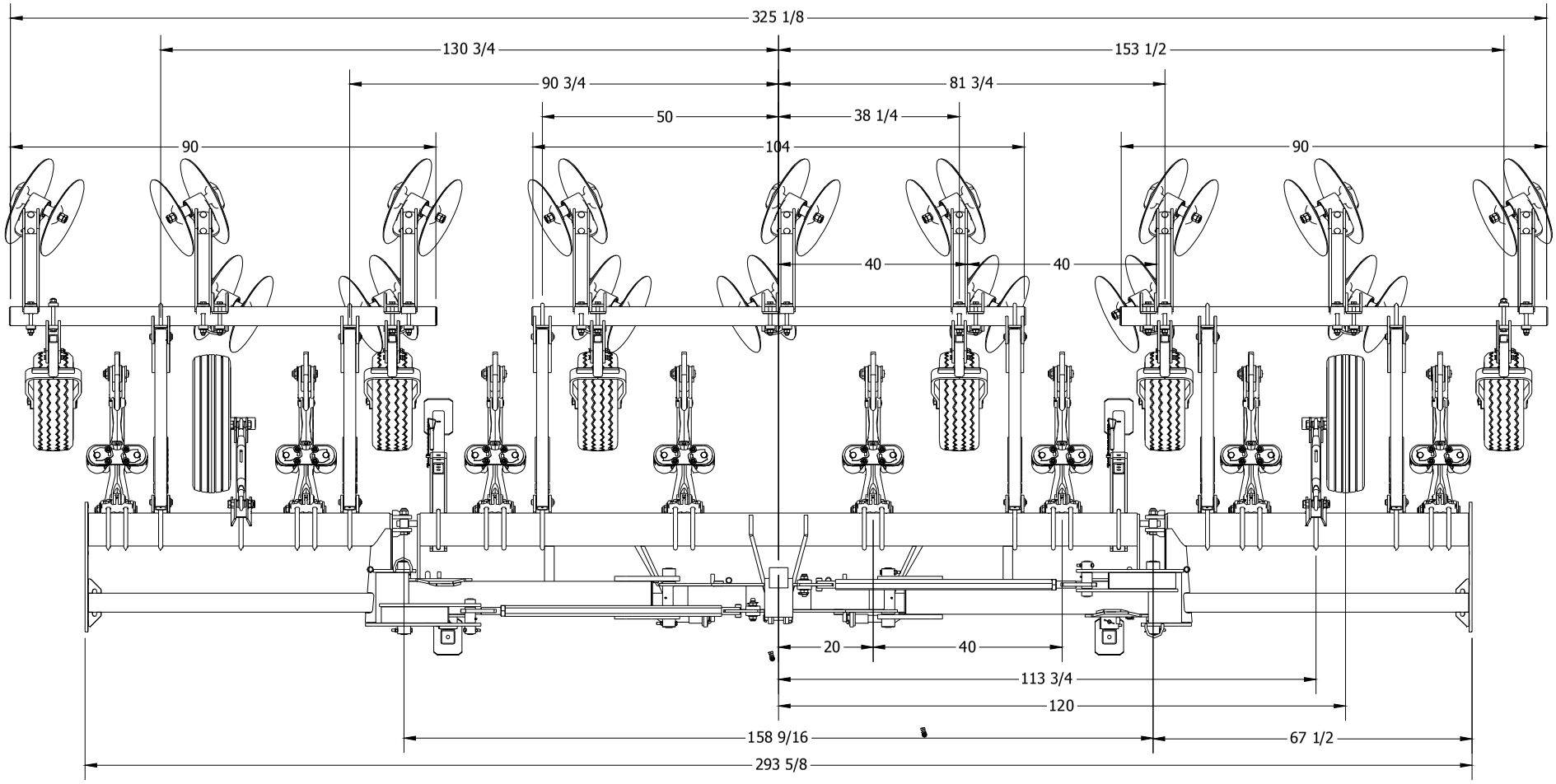
8-ROW 38” STACK-FOLD RIPPER BEDDERS W/BEDDER DOORS

(68-08-38-R)+(8R-(36-40)F-BS (Shown with Reset-on-the-Go Shanks)



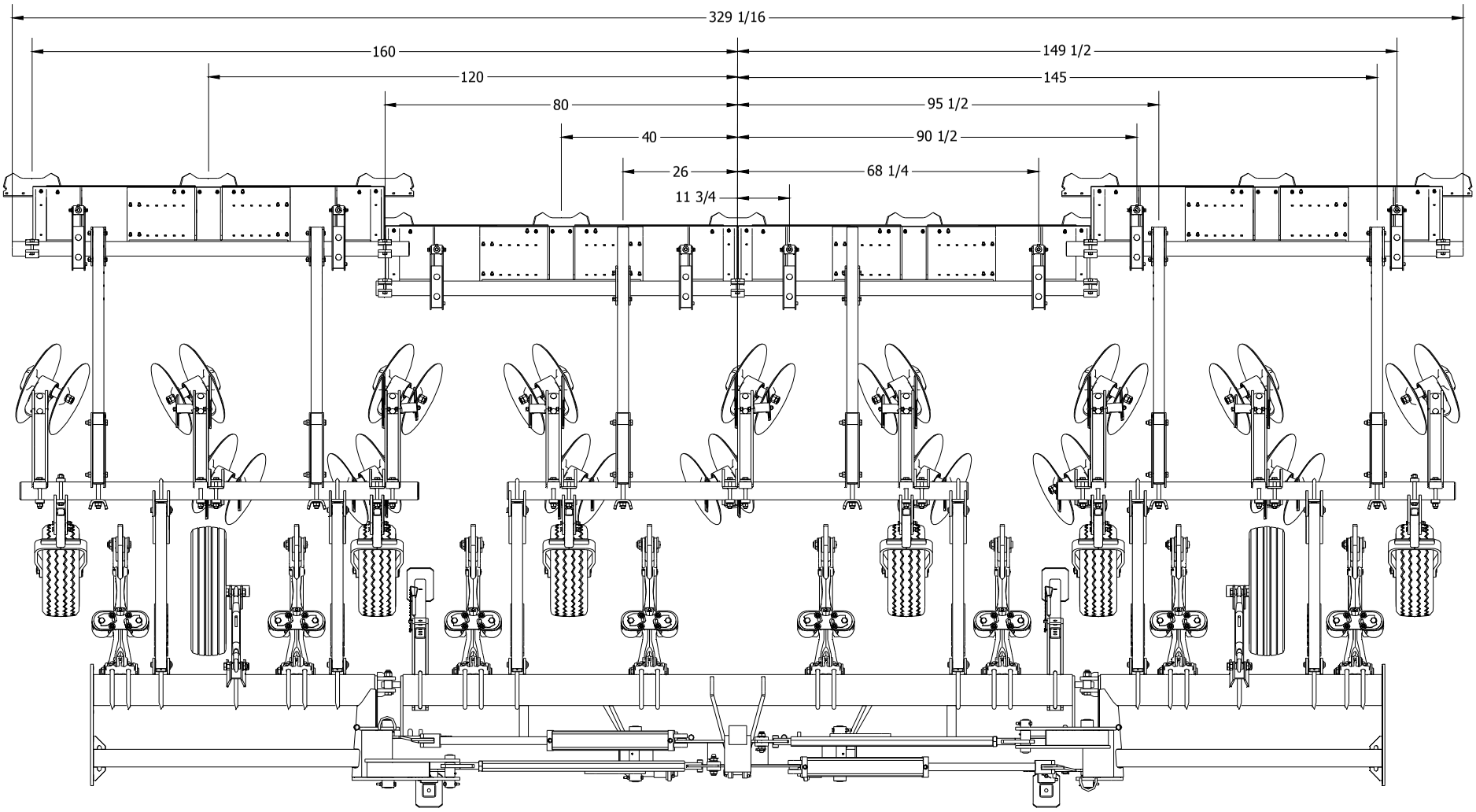
8-ROW 40” STACK-FOLD RIPPER BEDDERS

(68-08-40-R) (Shown with Reset-on-the-Go Shanks)



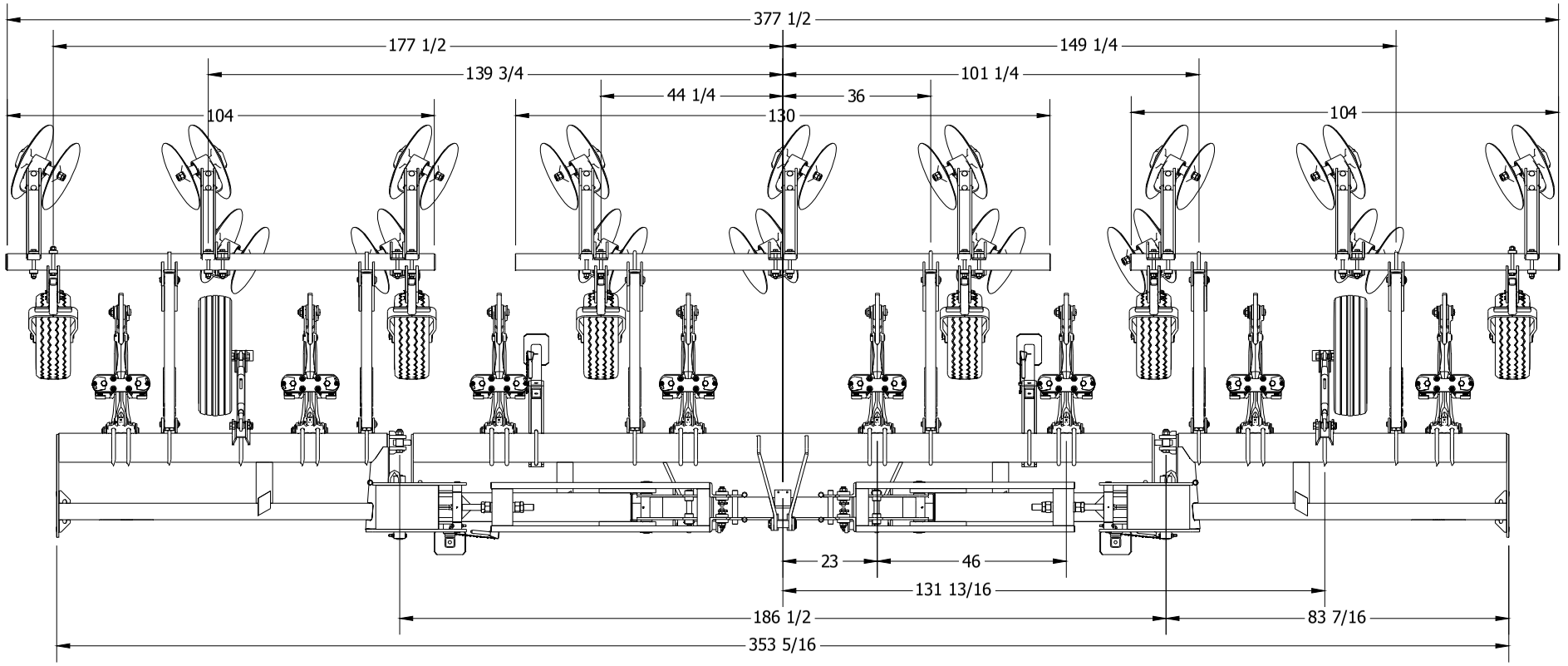
8-ROW 40” STACK-FOLD RIPPER BEDDERS W/BEDDER DOORS

(68-08-40-R)+(8R-(36-40)F-BS (Shown with Reset-on-the-Go Shanks)



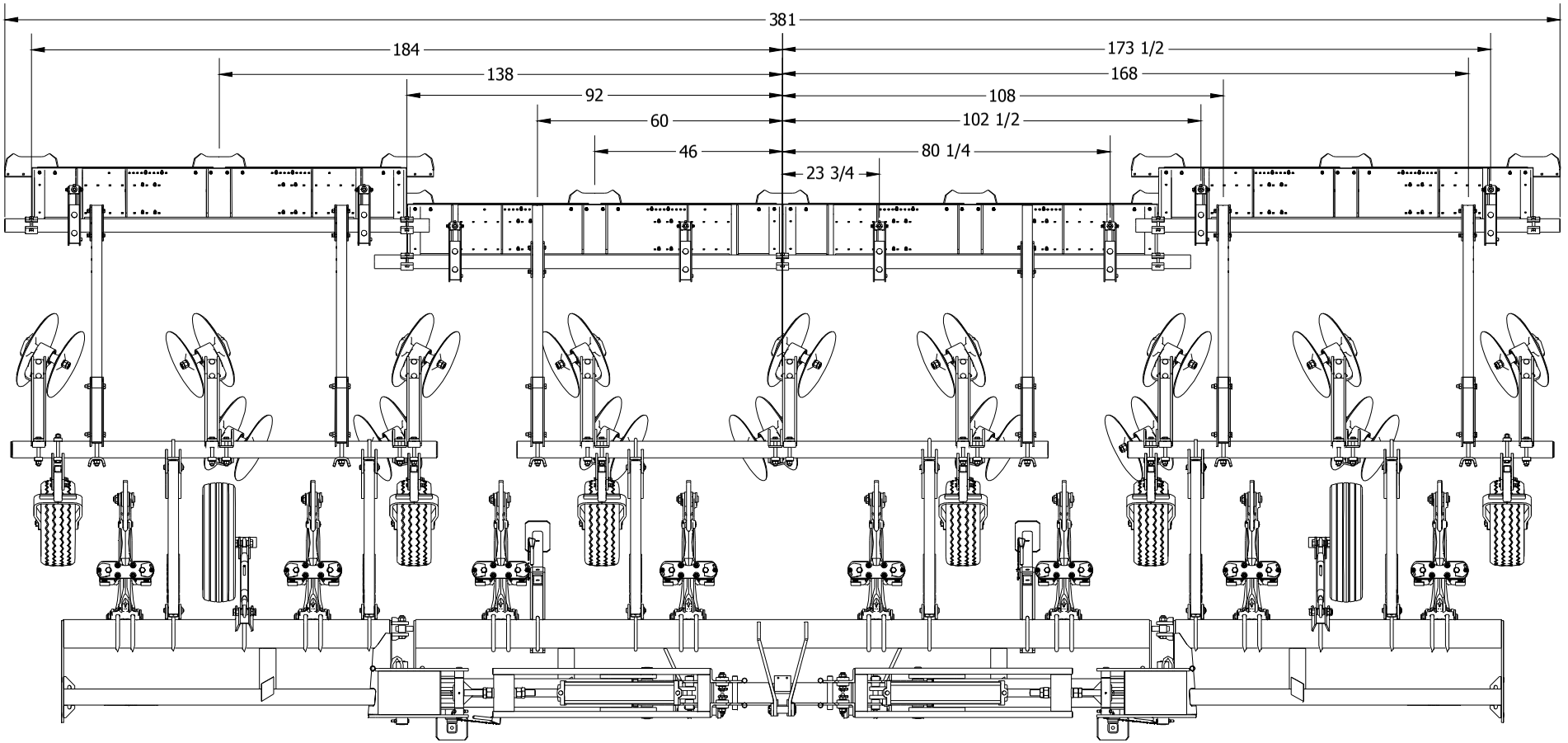
8-ROW 46” STACK-FOLD RIPPER BEDDERS

(68-08-46-R) (Shown with Reset-on-the-Go Shanks)



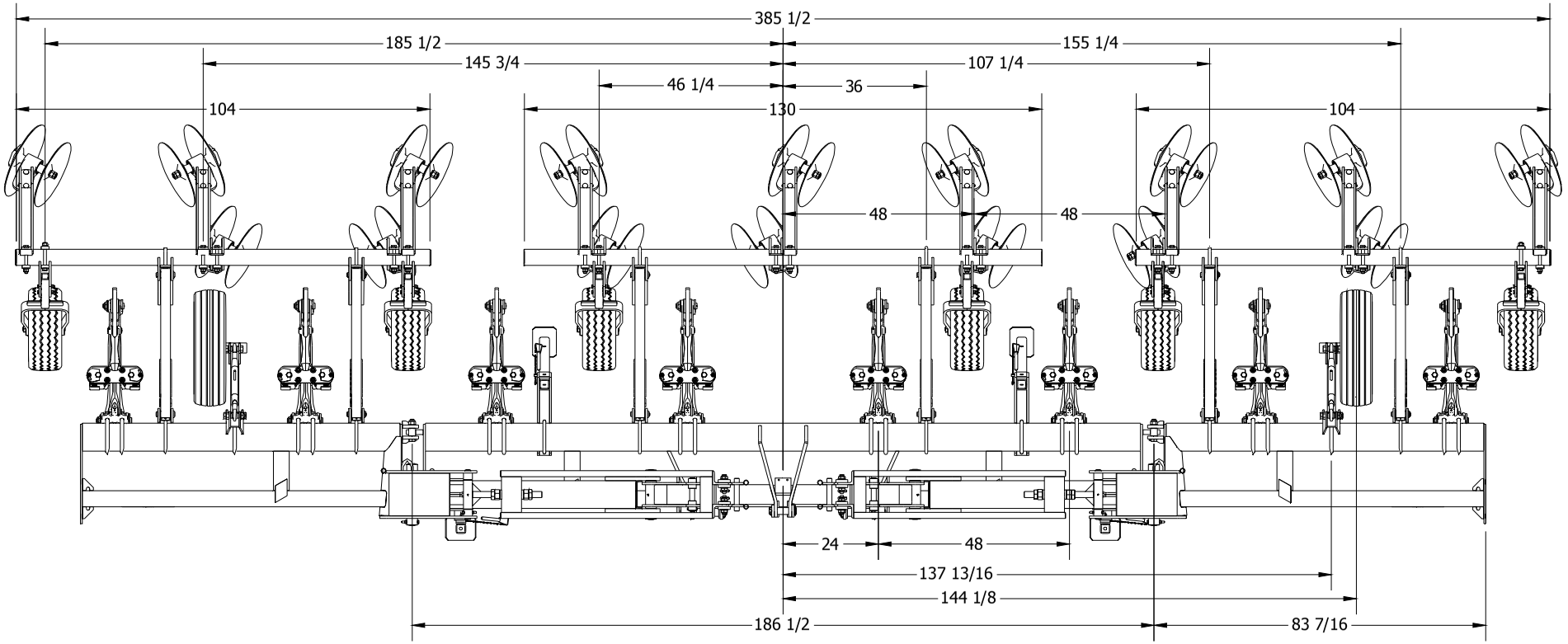
8-ROW 46” STACK-FOLD RIPPER BEDDERS W/BEDDER DOORS

(68-08-46-R)+(8R-46F-BS) (Shown with Reset-on-the-Go Shanks)



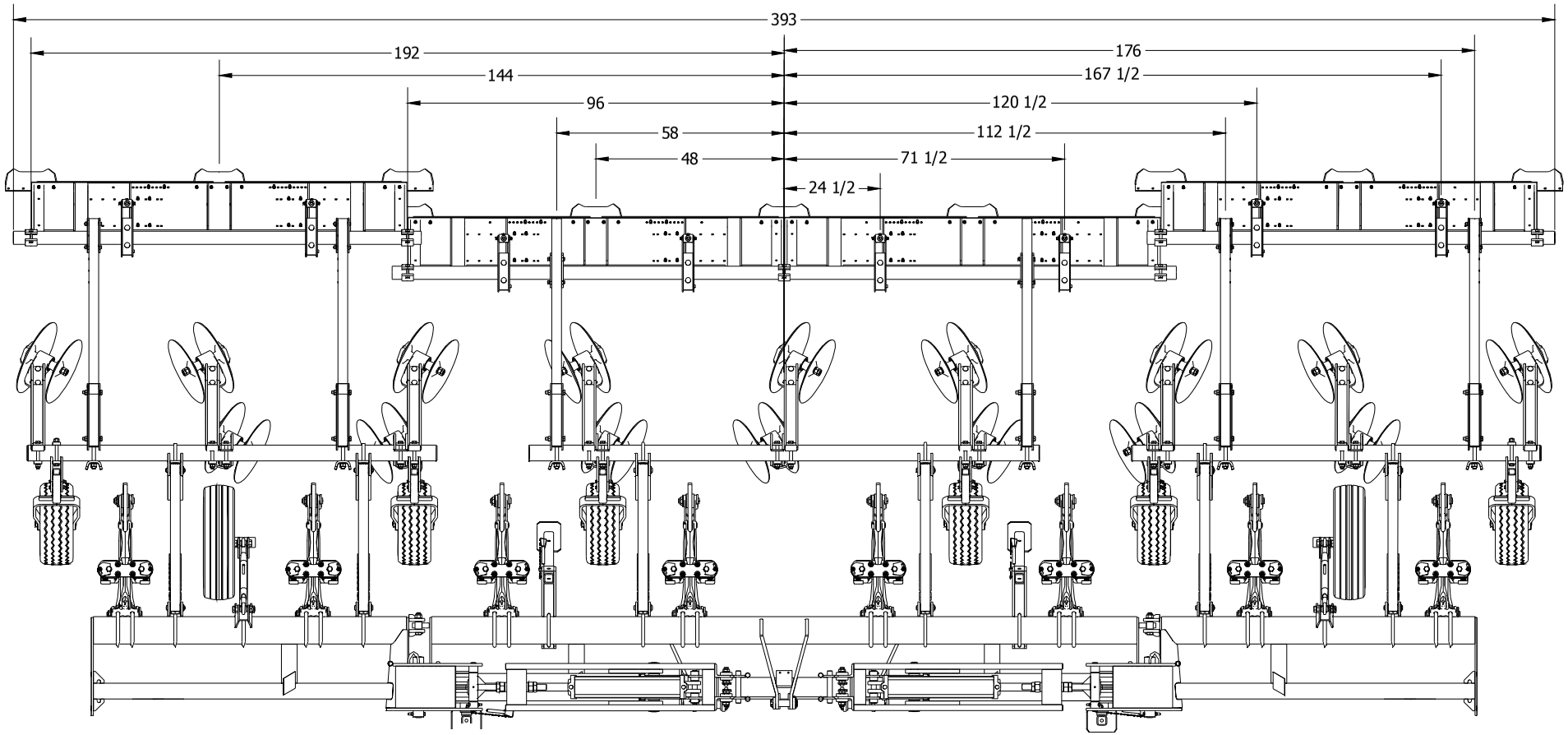
8-ROW 48" STACK-FOLD RIPPER BEDDERS

(68-08-48-R) (Shown with Reset-on-the-Go Shanks)

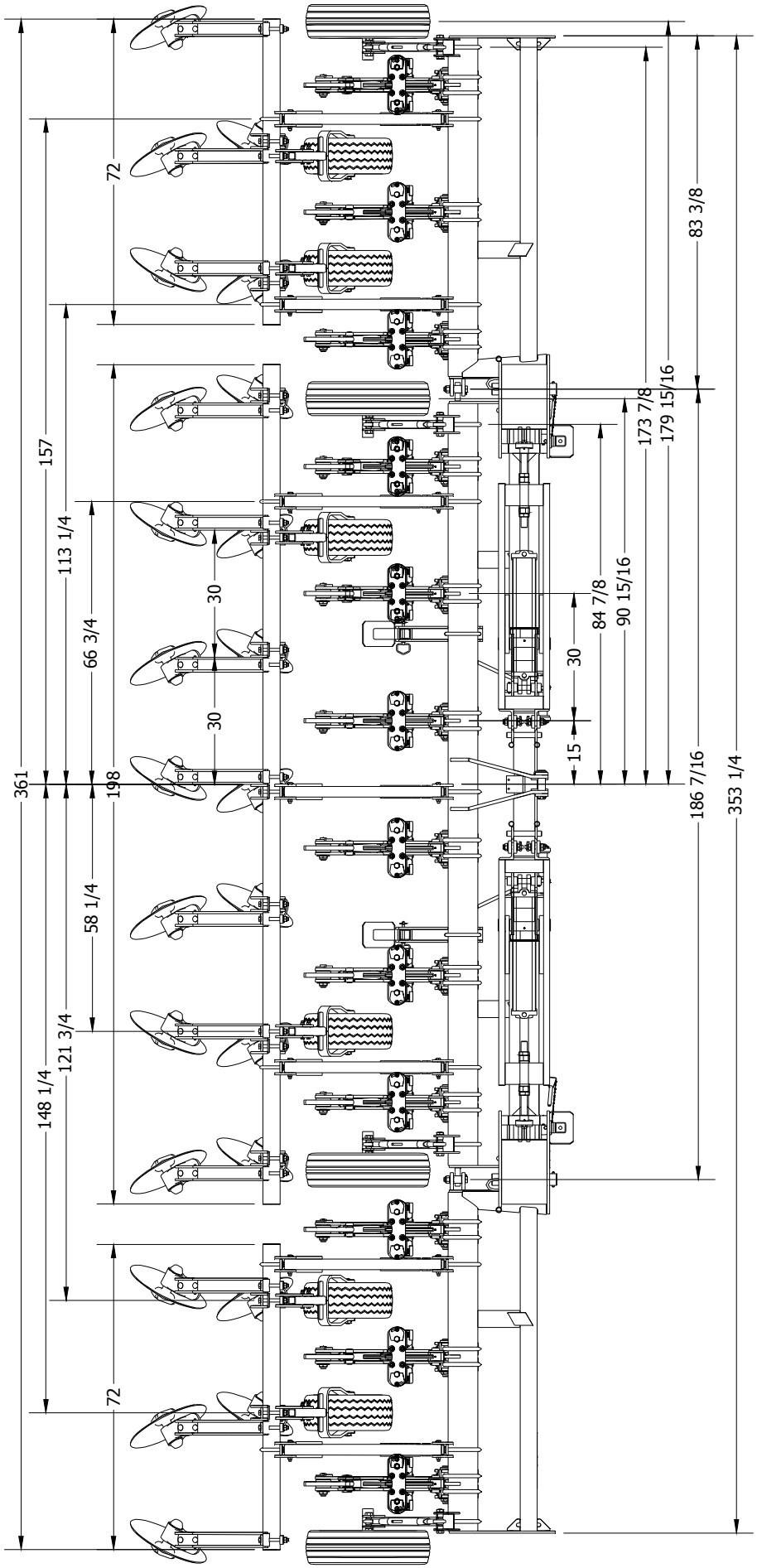


8-ROW 48” STACK-FOLD RIPPER BEDDERS W/BEDDER DOORS

(68-08-48-R)+(8R-46F-BS) (Shown with Reset-on-the-Go Shanks)

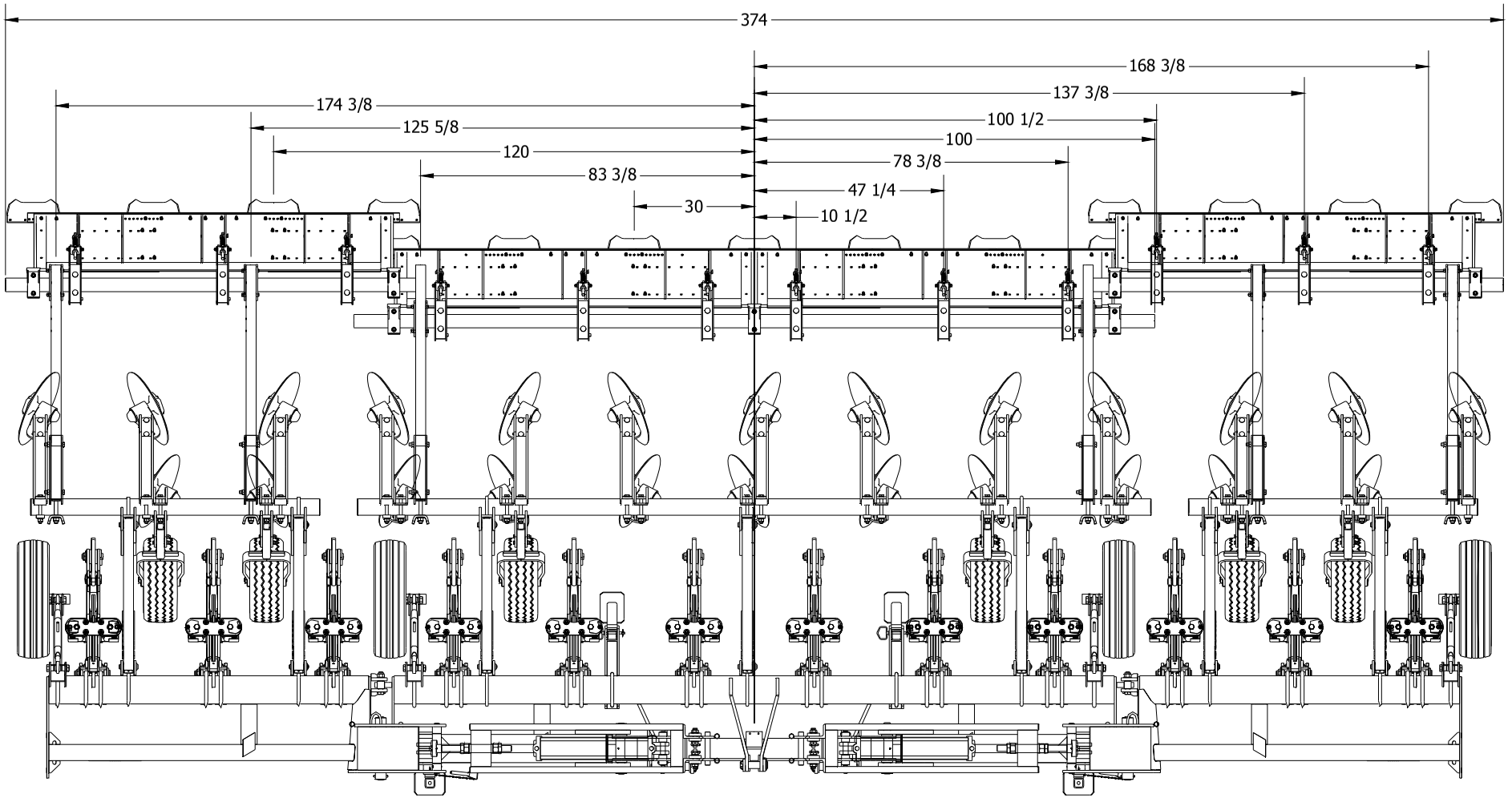


12-ROW 30’ STACK-FOLD RIPPER BEDDERS
(68-12-30-R) (Shown with Reset-on-the-Go Shanks)



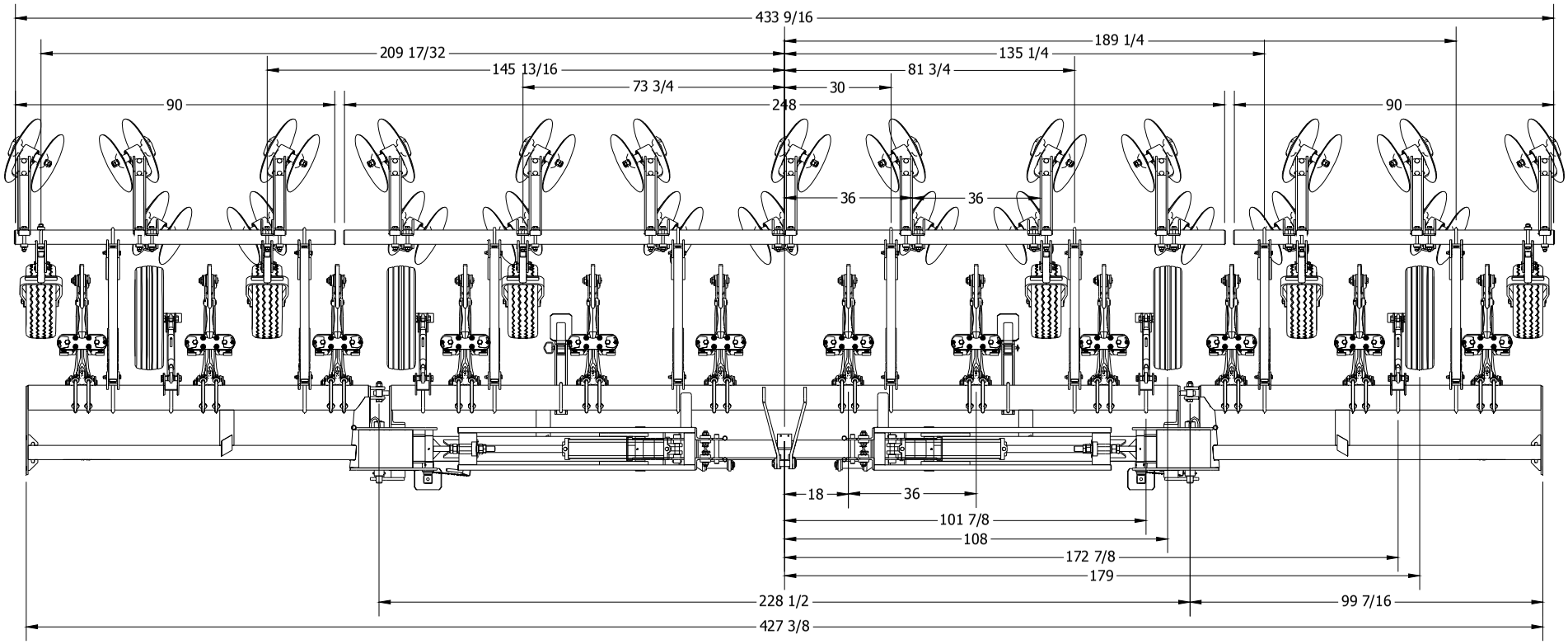
12-ROW 30" STACK-FOLD RIPPER BEDDERS W/BEDDER DOORS

(68-12-30-R)+(12R-30BS) (Shown with Reset-on-the-Go Shanks)



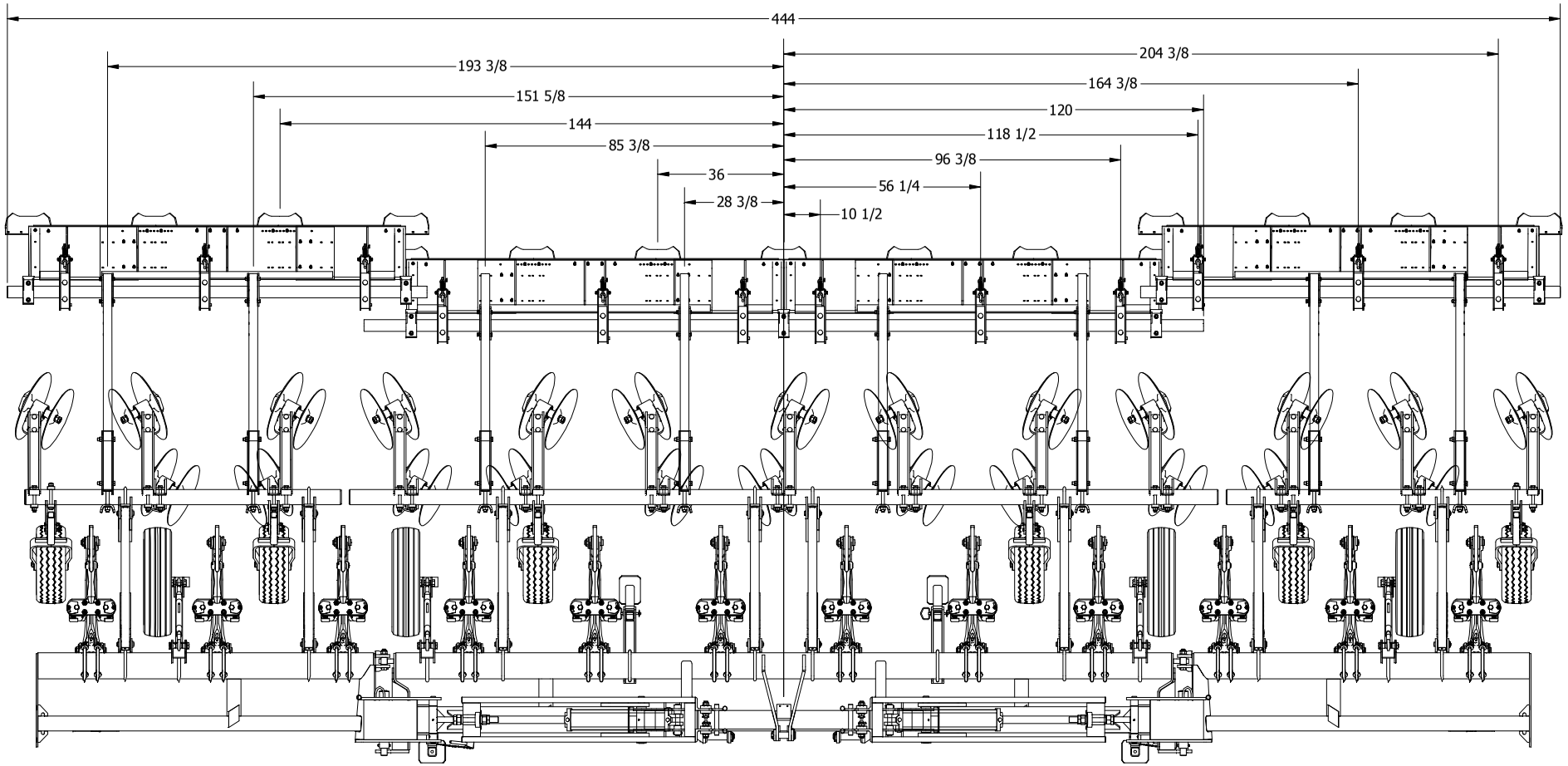
12-ROW 36" STACK-FOLD RIPPER BEDDERS

(68-12-36-R) (Shown with Reset-on-the-Go Shanks)



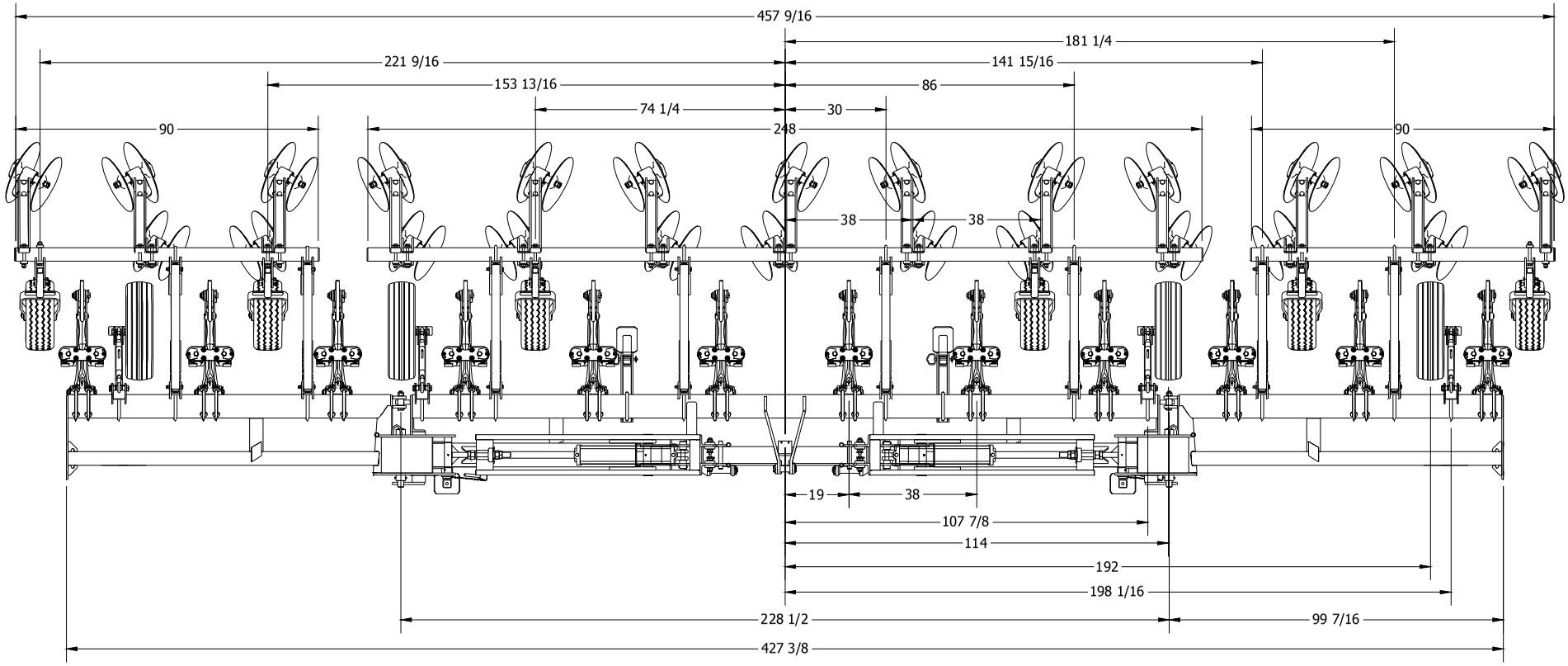
12-ROW 36" STACK-FOLD RIPPER BEDDERS W/BEDDER DOORS

(68-12-36-R)+(12R-(36)BS) (Shown with Reset-on-the-Go Shanks)



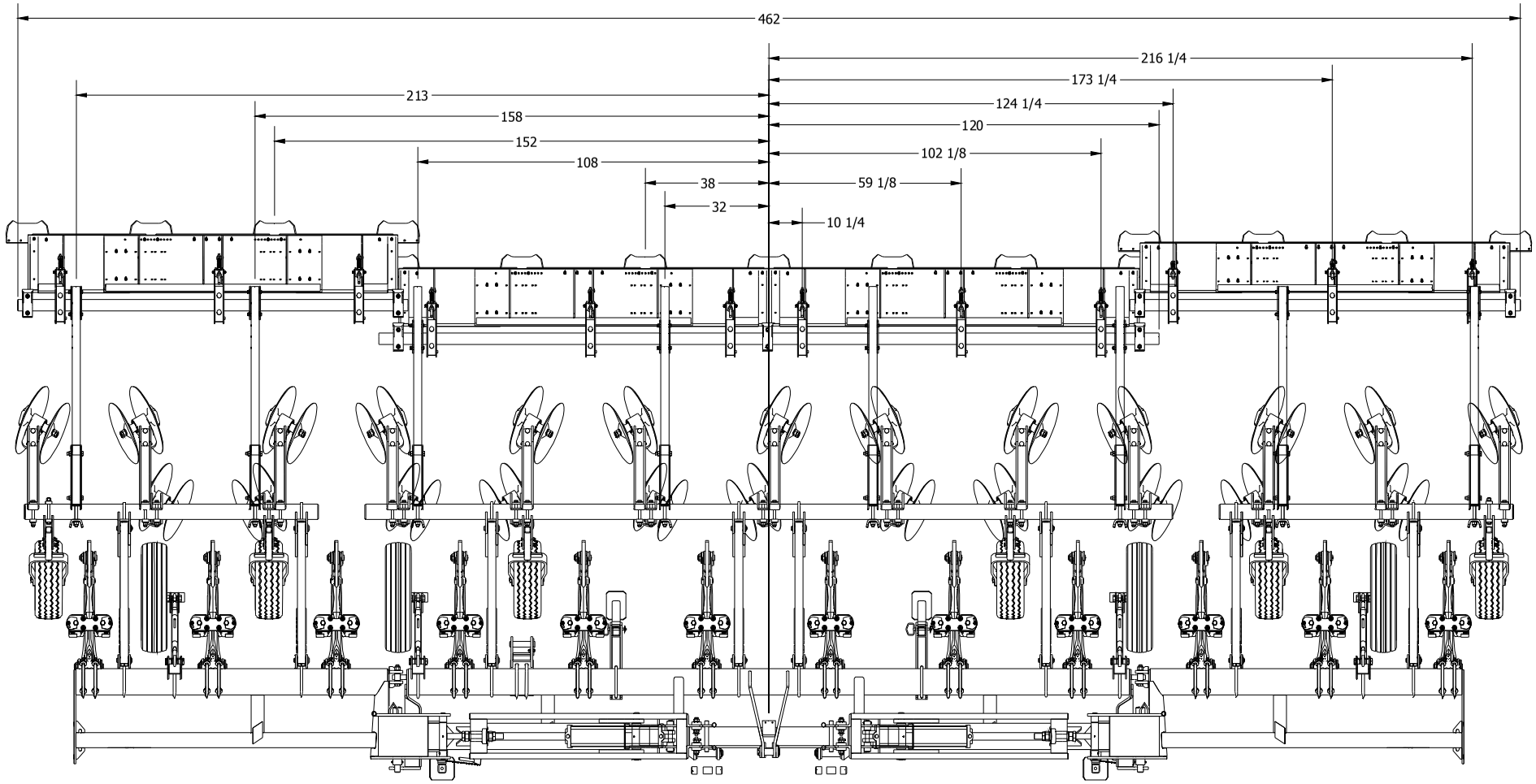
12-ROW 38” STACK-FOLD RIPPER BEDDERS

(68-12-38-R) (Shown with Reset-on-the-Go Shanks)



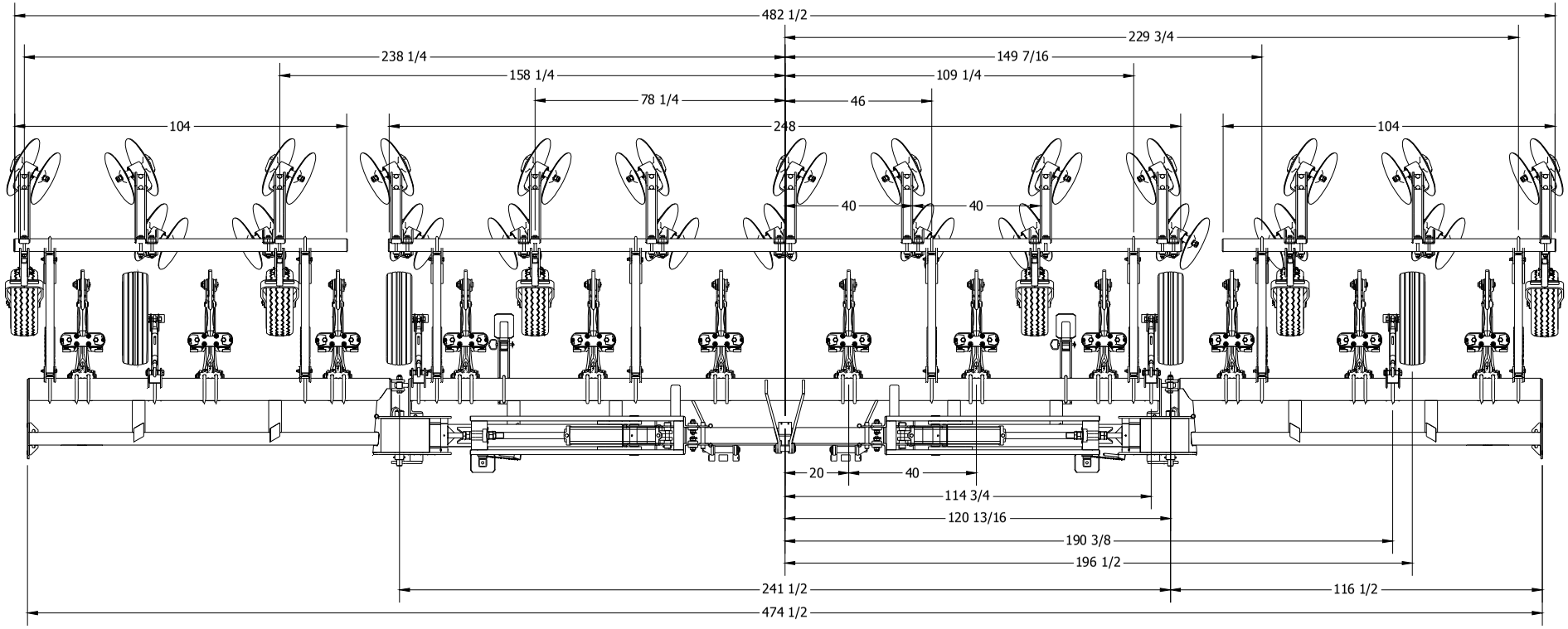
12-ROW 38” STACK-FOLD RIPPER BEDDERS W/BEDDER DOORS

(68-12-38-R)+(12R-(38)BS) (Shown with Reset-on-the-Go Shanks)



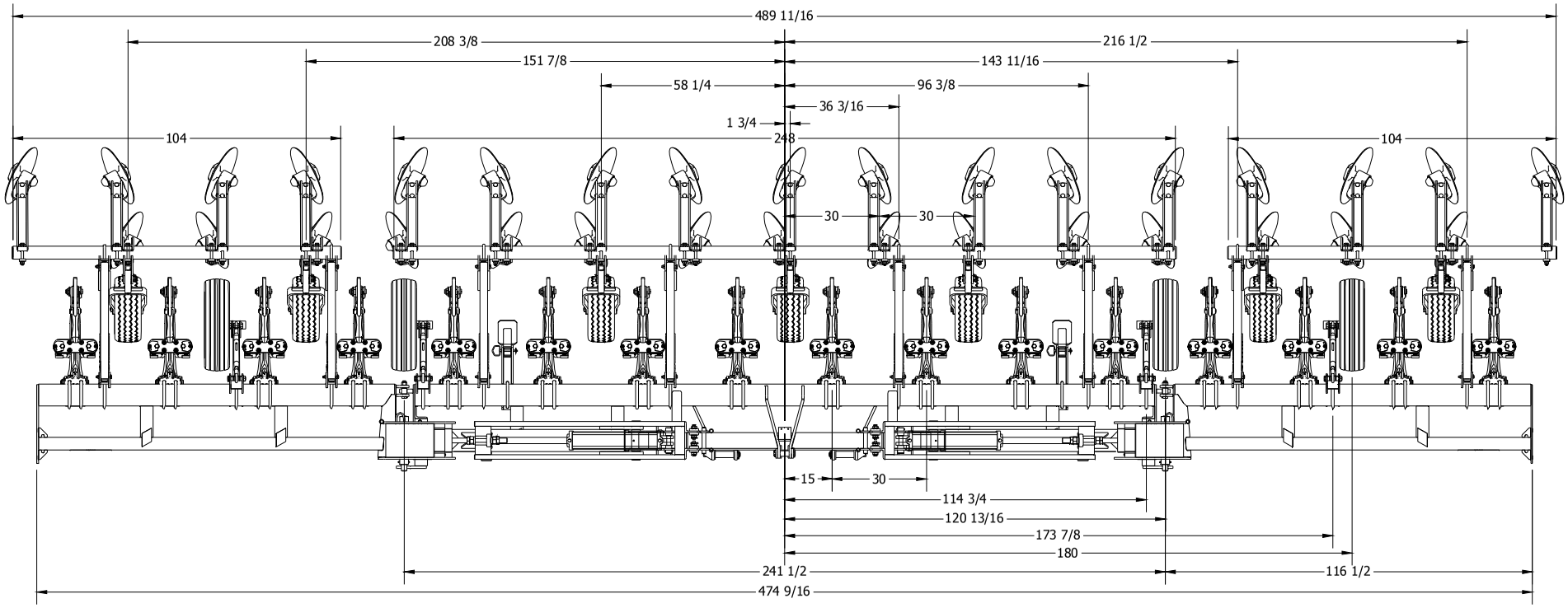
12-ROW 40" STACK-FOLD RIPPER BEDDERS

(68-12-40-R) (Shown with Reset-on-the-Go Shanks)



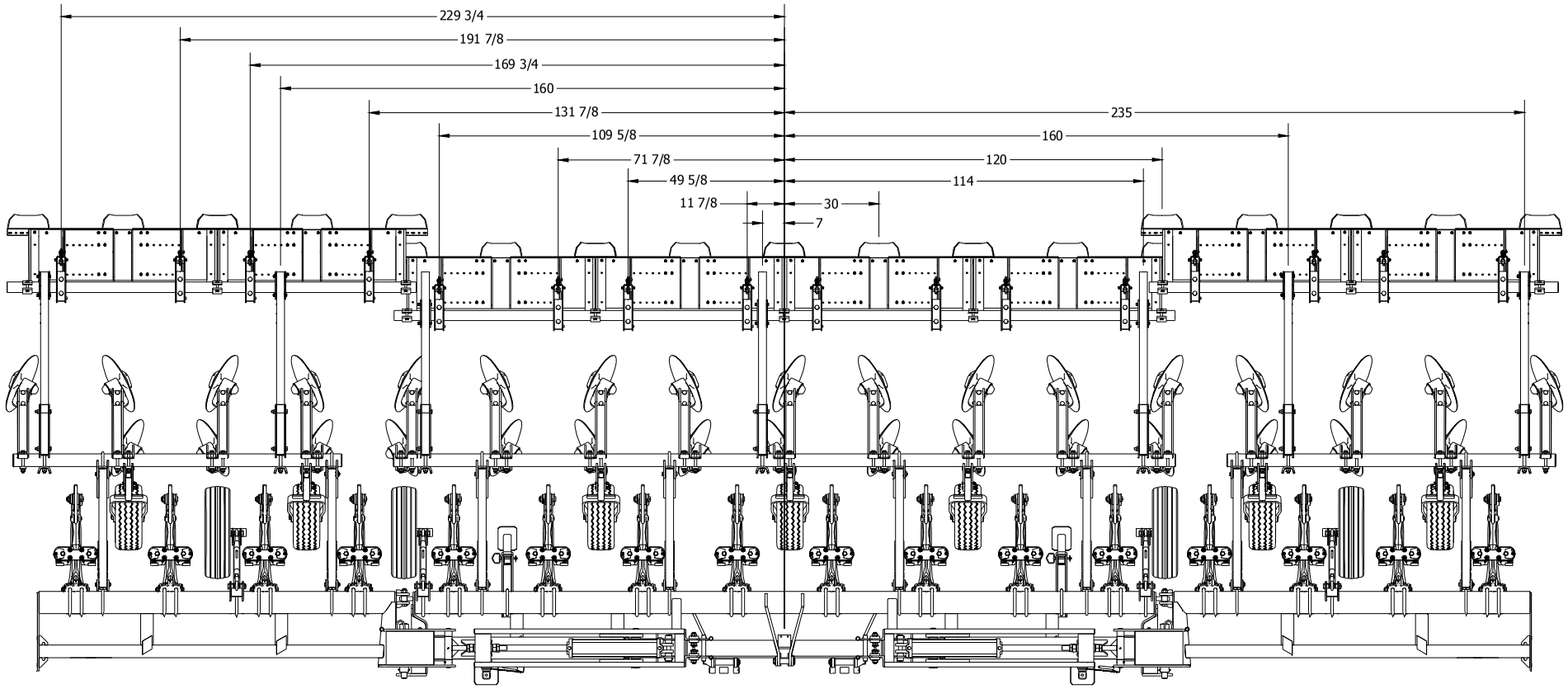
16-ROW 30” STACK-FOLD RIPPER BEDDERS

(68-16-30-R) (Shown with Reset-on-the-Go Shanks)



16-ROW 30" STACK-FOLD RIPPER BEDDERS W/BEDDER DOORS

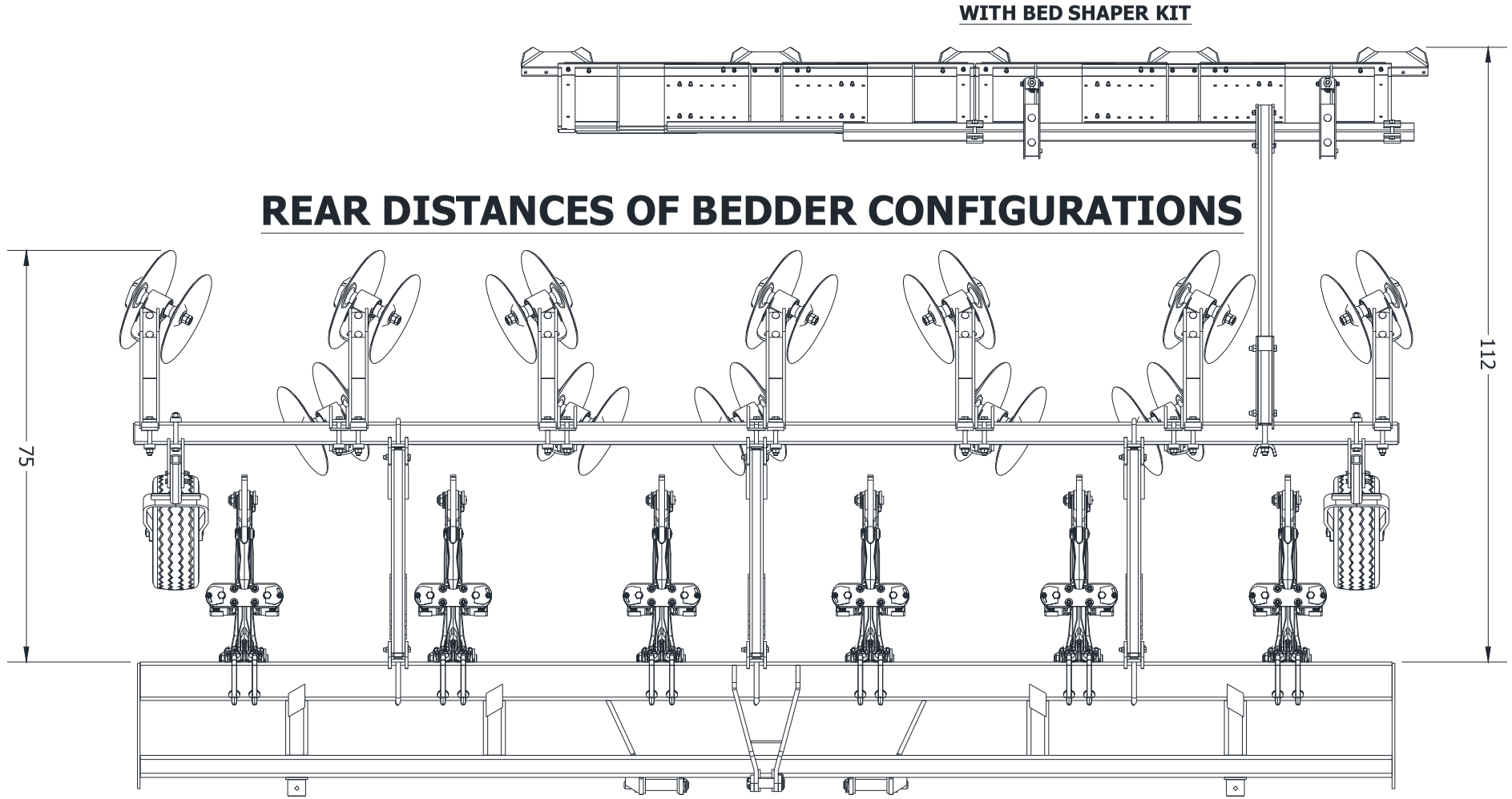
(68-16-30-R) (Shown with Reset-on-the-Go Shanks)



REAR DISTANCES FOR STD. BEDDER CONFIGURATIONS:

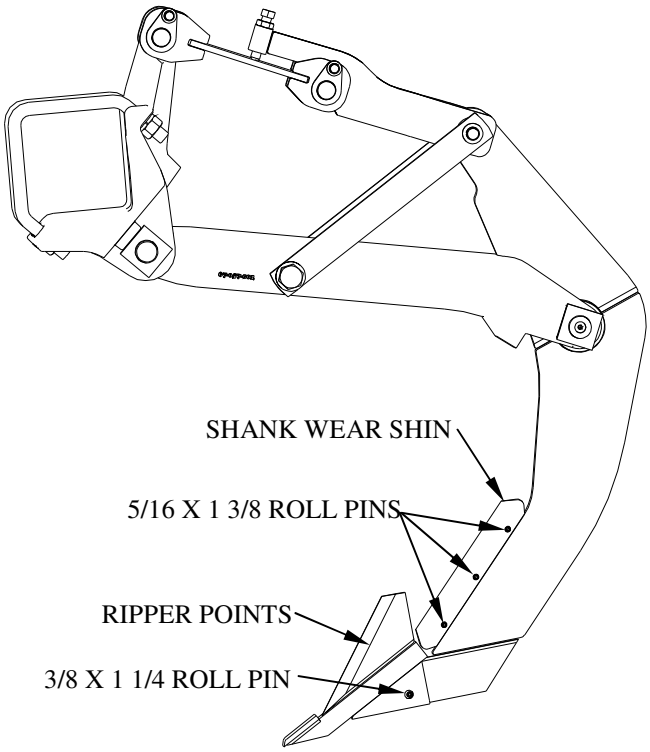
The **KMC 6800 Series Ripper Bedder** unit can be equipped with bedders, bedder doors and shaper kits.

The following diagram shows the relationship that each of these set-ups have with the backside of the rear 7x7 tube on any of the **KMC 6800 Series Ripper Bedder** toolbars. With each of these distances it can be determined, in conjunction with the KMC Lift Assist owner's manual, which set of Lift Assist beams or Planter Beams will be needed to provide clearance between the Ripper Bedder toolbar and the Planter toolbar for the particular KMC Ripper Bedder setup used.

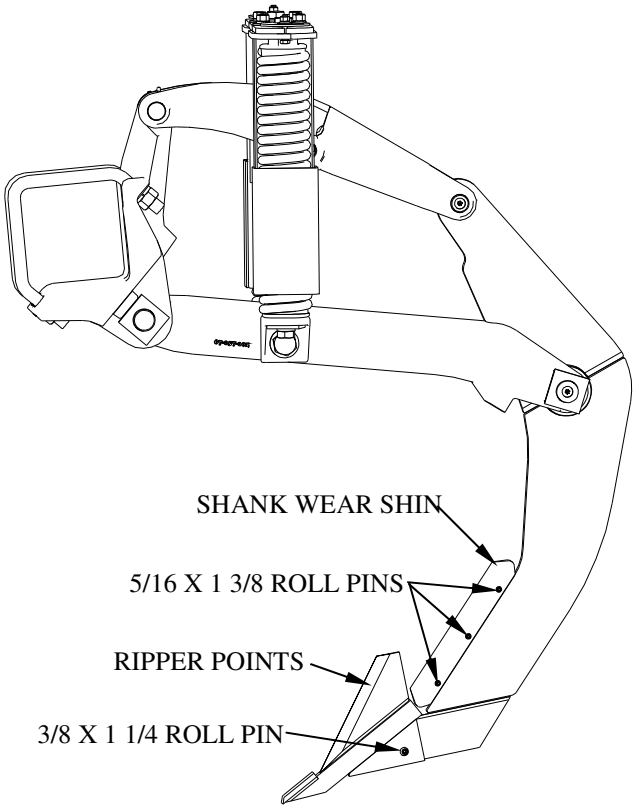


RIPPER TOOL OPTIONS:

Toggle Trip Shanks



Reset-On-The-Go Shanks

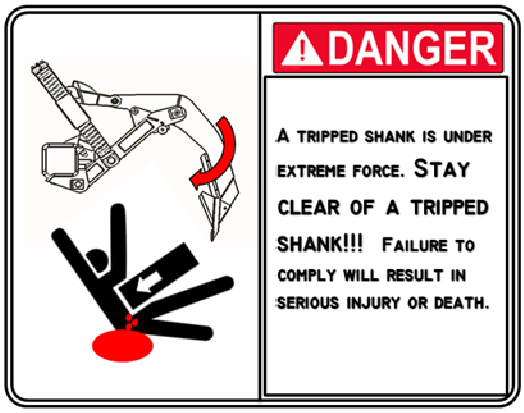


The 6800 Series Ripper Bedder comes equipped with a choice of the Reset on the Go Ripper Shank or the Toggle Trip Shank. Either of these will be pre-mounted to the bar when the unit arrives. Verify the pre-mount location of all the shanks by using the "**Overhead Layout**" portion of this section. It may be necessary to mount some of the wear items associated with these ripper shanks using the following:

For the KMC Ripper Points use (1) 3/8 x 1 1/4" long roll pins to secure in place on each shank as shown. For KMC Shank Wear Shins use (3) 5/16 x 1 3/8" long roll pins to secure to each shank as shown. Once all items on each shank are in place verify that all hardware is in place and properly tightened and secured.

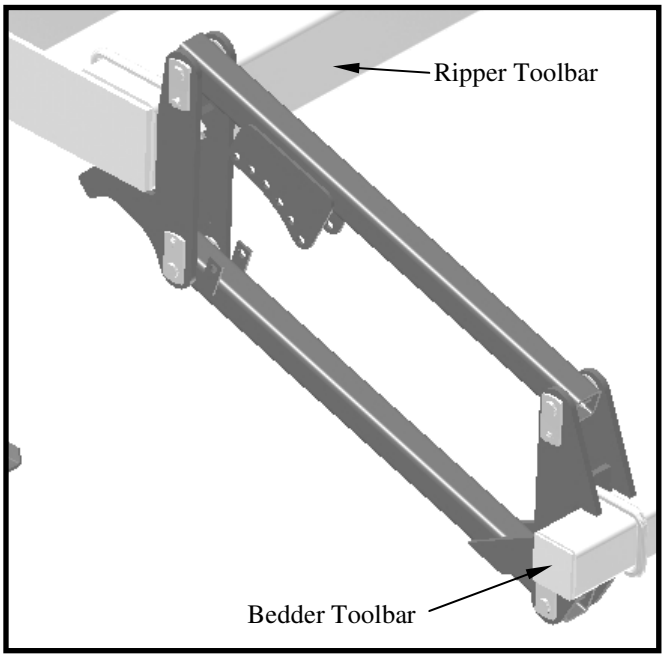
DANGER

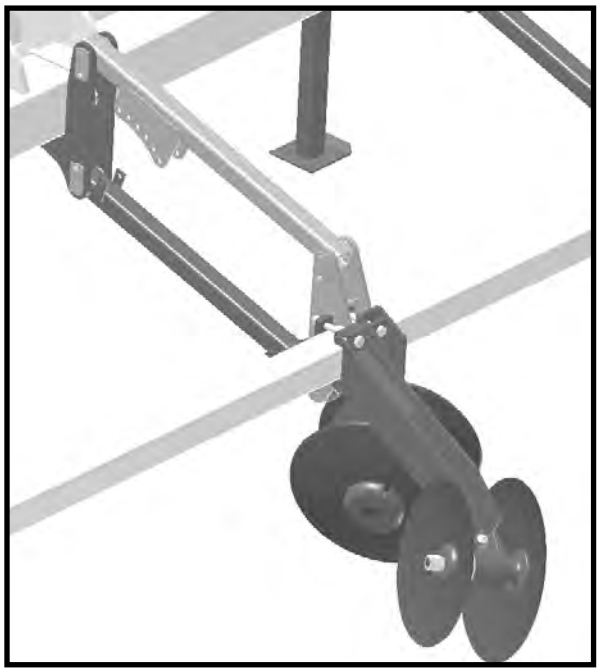
A TRIPPED SHANK IS UNDER EXTREME FORCE. STAY CLEAR OF A TRIPPED SHANK! FAILURE TO COMPLY WILL RESULT IN SERIOUS INJURY OR DEATH.



TOOL BAR LINKAGES BOLTING SETUP:

Mount the linkage assemblies (68-082-007) between the ripper toolbar and the bedder toolbar as shown below. Different size machines require different quantities of linkage assemblies. Some linkages may require you use the disc gangs to help mount to your rear bedder bar as shown below. Mount the linkage assemblies on the tool bar in the areas where no other components are to be mounted. Refer to the overhead layouts for the correct locations of the linkage assemblies.

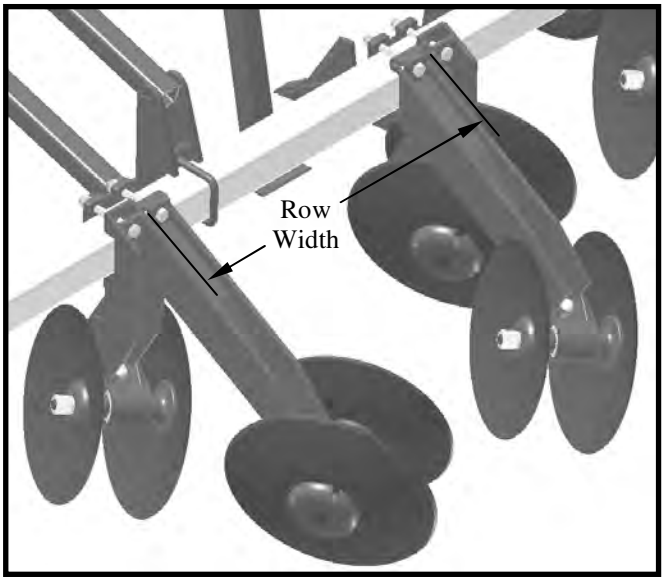




DISC GANG OPTIONS:

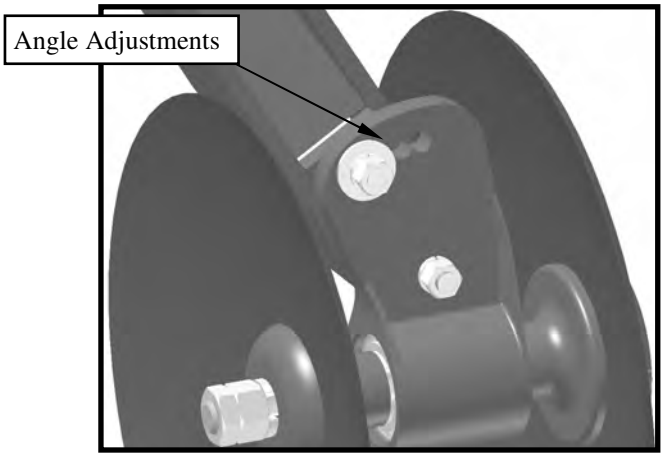
FRONT AND REAR DISC GANGS

DOUBLE DISC GANGS

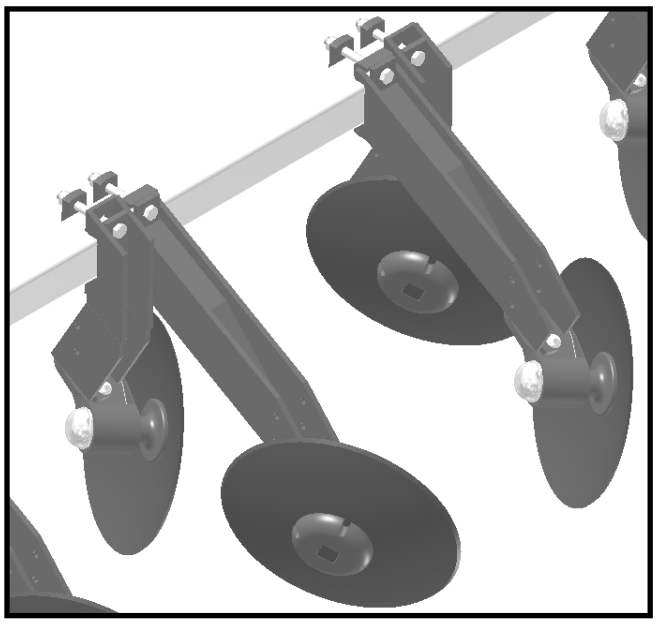


Mount the disc assemblies (06-082-043) to the disc mounting brackets and select the desired angle of cut. Be sure to set each of disc to the same angle of cut.

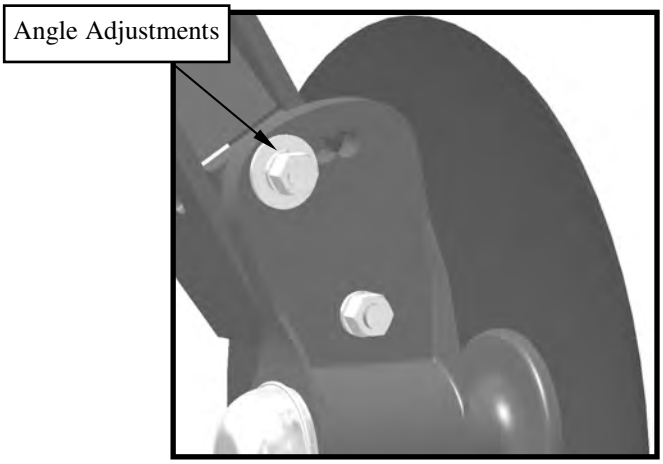
The disc gangs are assembled opposed. The opposed arrangement which minimizes side draft is shown in the picture to the left. Mount the front disc mounting brackets (06-082-081) and rear disc mounting brackets (06-082-008) to the bedder toolbar as shown. Be sure that all disc mounting brackets are mounted the same distance from the row. The distance will vary with the different row spacing and width of bed desired.



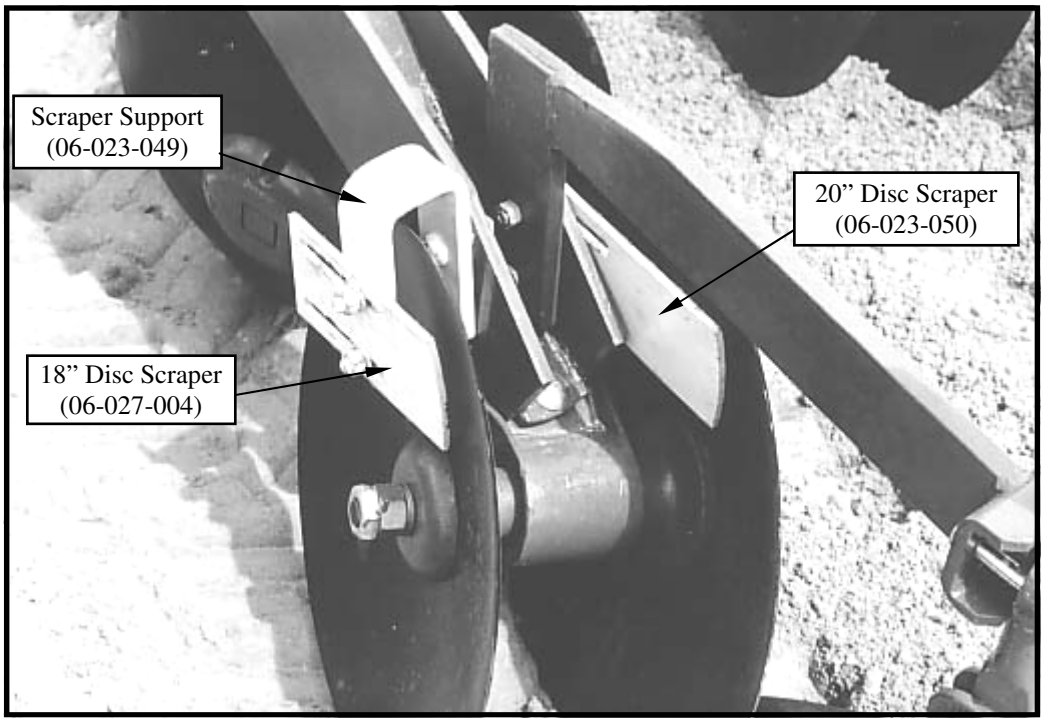
SINGLE DISC GANGS



Single Disc Assemblies (06-082-057) are use on 30” Row machine. Assemble Single Disc to the disc mounting brackets (06-080-008) & (06-080-081) and set angle.



DISC SCRAPER KIT



A Disc Scraper Kit (06-082-015) is made up of an 18” Disc Scraper and 20” Disc scraper which are mounted to the disc mounting brackets. The 18” Disc Scraper requires a scraper support (06-023-049) to mount the scraper to the disc mounting bracket as shown above.

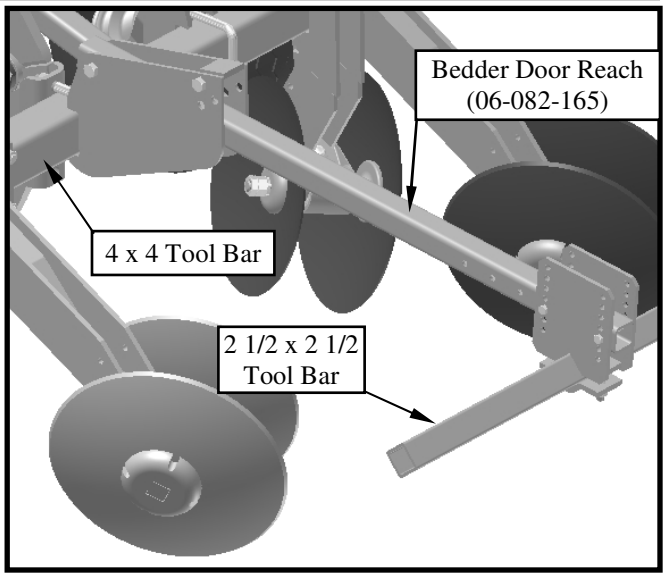
BEDDER DOOR OPTIONS:

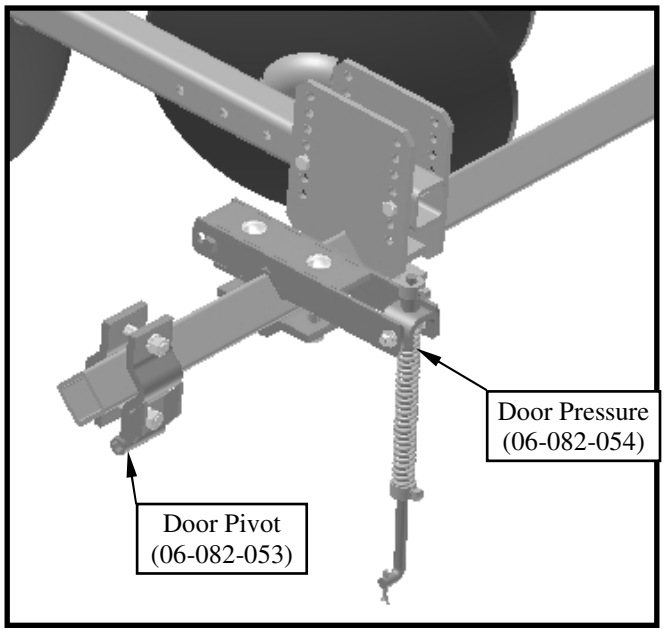
Bedder Door Assembly:

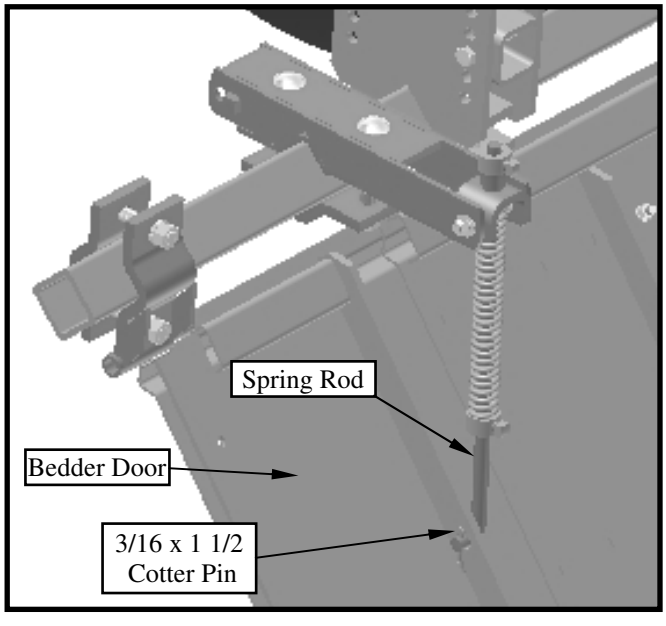
1. Attach 4 x 4 Bedder Door Reaches (06-082-165) to the rear of the 4 x 4 Tool Bar using (2) 7/8 x 6 1/2 capscrews, lockwasher, hexnuts and a Reach Arm Cap (11-023-019) for each reach. Position the reaches so that they clear the area where the Door Pressure Bundle mount. Do not tighten reach to bar until they are in the correct position.
2. Next mount the 2 1/2 x 2 1/2 tool bar to the rear of the 4 x 4 Bedder Door Reach (06-082-165) using (2) 5/8 x 3 1/2 capscrew, lockwashers, hexnuts and a P.B.Clamp Cap (02-023-188)
3. Now assemble Door Pivot (06-082-053) on each end of the 2 1/2 x 2 1/2 tool bar using (2) 5/8 x 3 capscrews, lockwashers, hexnuts and a P.B. Clamp Cap (02-023-188). Do not tighten Door Pivots until your Door is located in the correct position.
4. Hang your Bedder Door in the Door Pivot tubes as shown in the pictures. Once the Door is located in the correct position tighten capscrew in the Door Pivot and the Bedder Door Reaches.
5. Mount the Door Pressure Bundle (06-082-054) on each end of the 2 1/2 x 2 1/2 Tool Bar using (2) 5/8 x 4 1/2 Carriage Screws, lockwashers, hexnuts, and a P.B. Clamp Cap (02-023-188). Do not tighten into position until you have attached the spring rods to the Bedder Door and held them into place with a 3/16 x 1 1/2 Cotter Pin.

NOTE: Refer to the "Overhead Layouts" portion of this section, for the correct positioning of all the above components. See the layout pages for the size and row pattern of your purchased unit.

For Stackfold Bars, note the bedder doors on the wings are staggered back to allow stacking clearance. Refer to the "Overhead Layouts" portion of this section for an example.

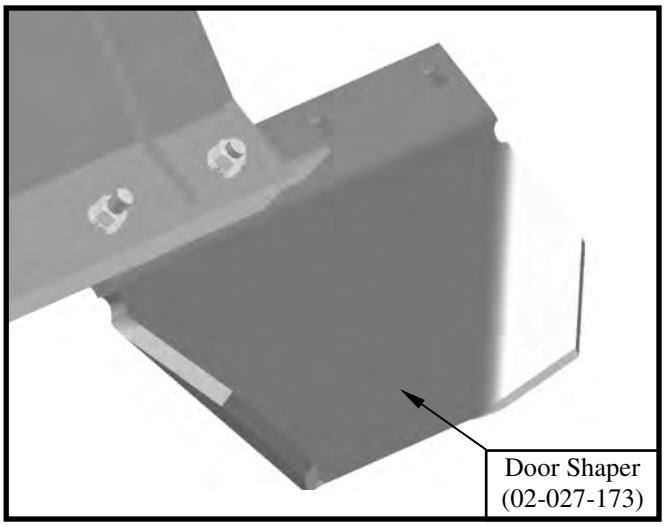






Bedder Door Shaper:

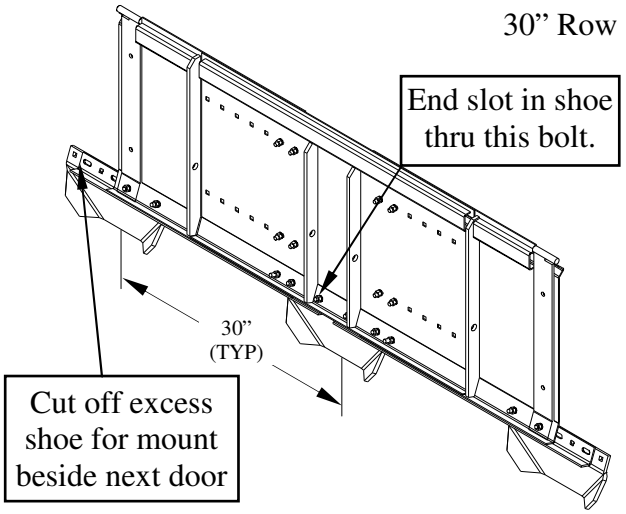
The Bedder Door Shaper (02-027-173) is bolted to the bottom of the Bedder Door Assembly using 3/8 x 1 1/2 Carriage Bolts, lockwasher, and hexnuts.



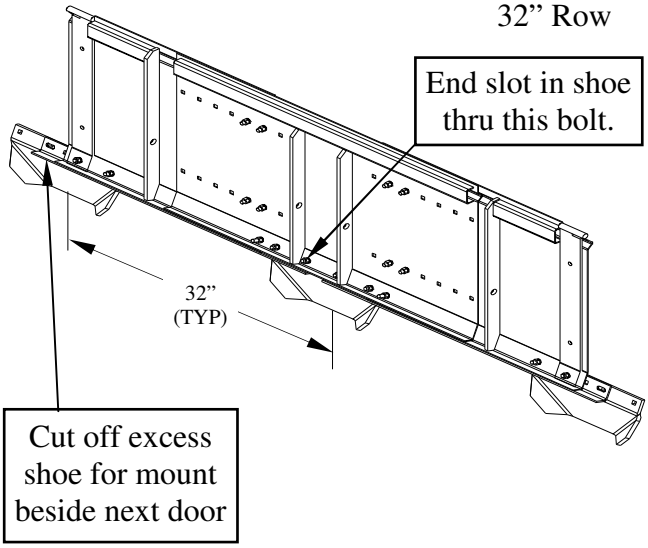
Double Bedder Door Setups:

All double bed doors can be set up to the following row patterns using (30-40) DB Door Assembly (06-082-164) except for the 48" Row Pattern that uses the (48) DB Door Assembly (06-082-184) & 46" Row Pattern that uses the (46) DB Door Assembly (06-082-190).

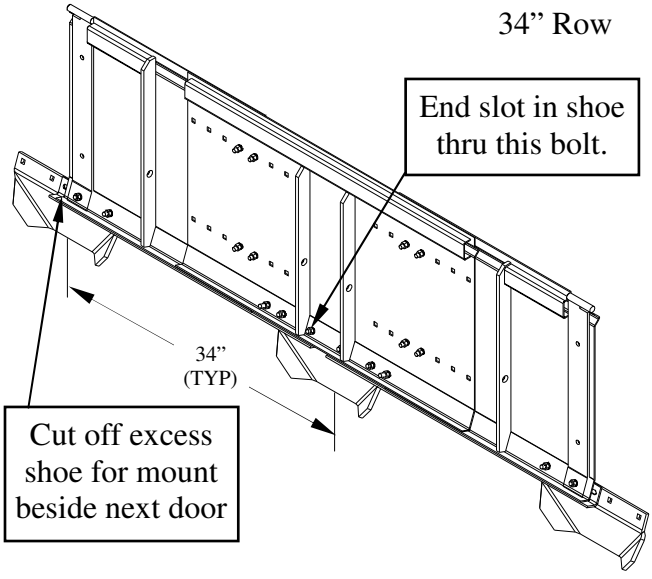
30" Row



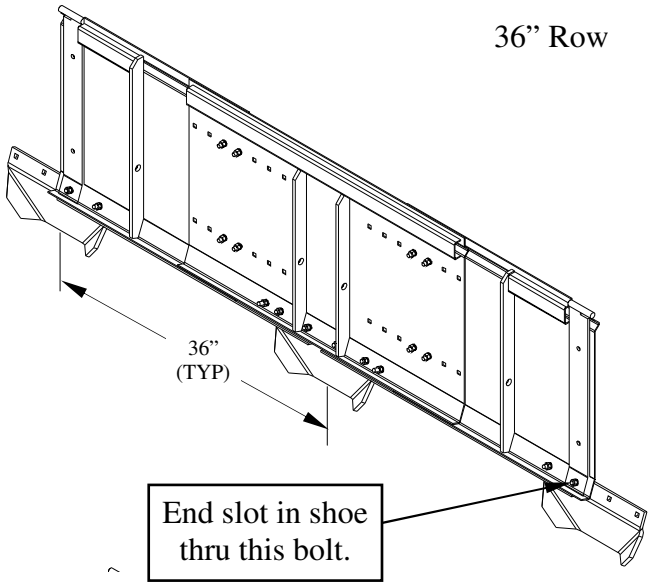
32" Row

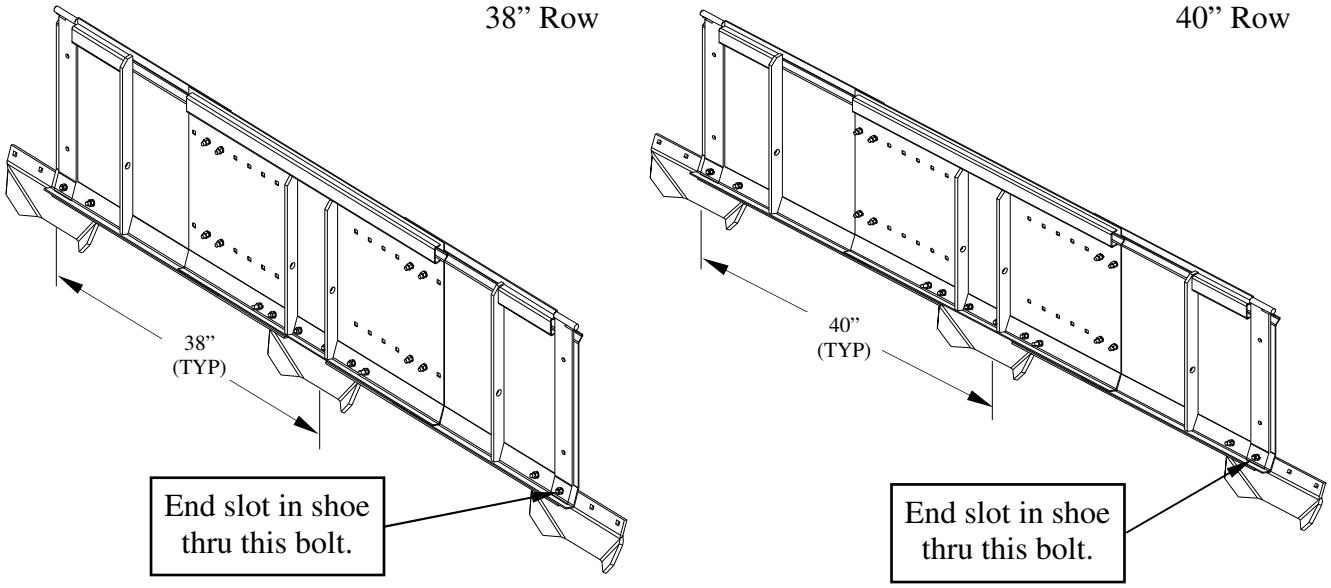


34" Row

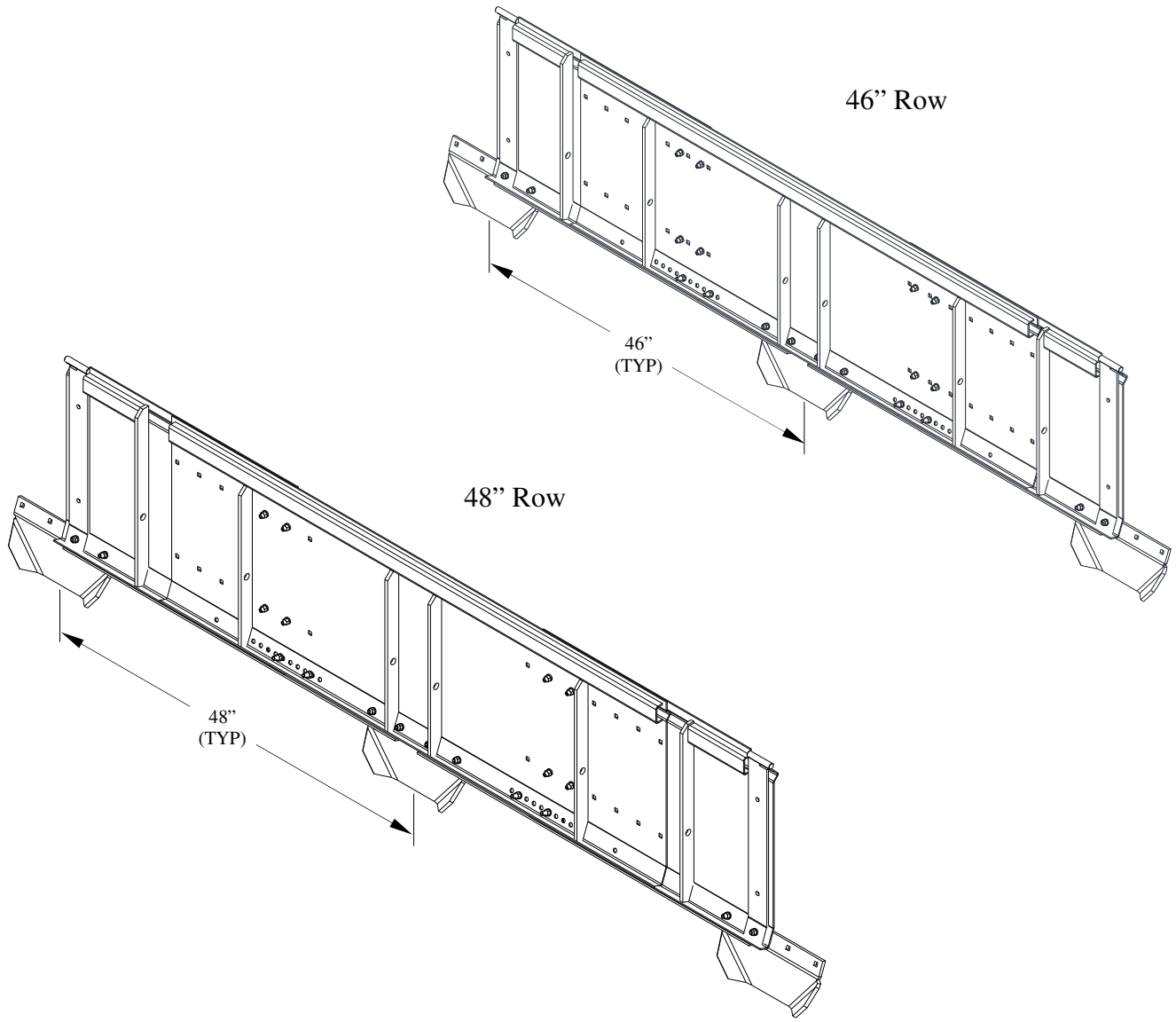


36" Row



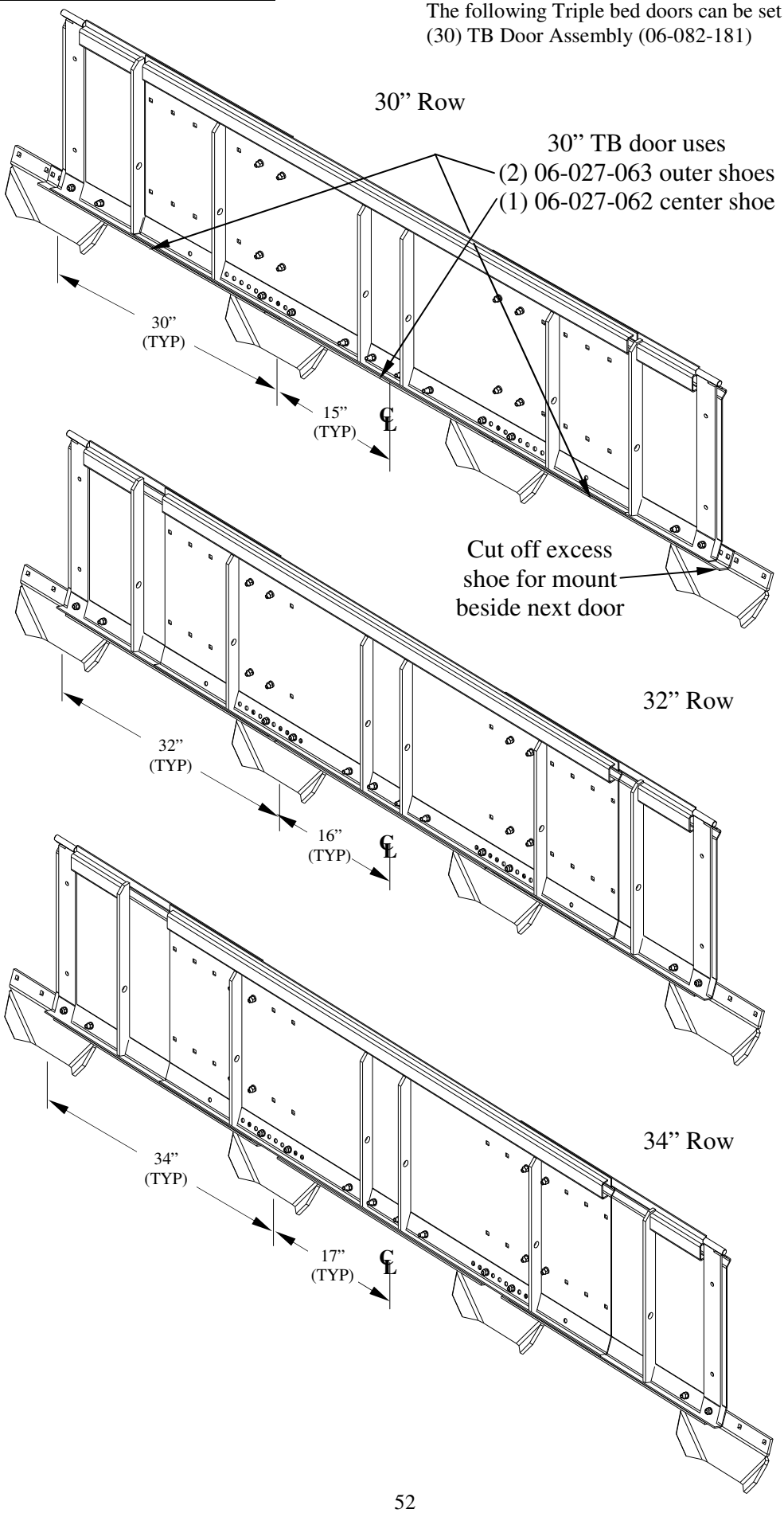


The 46” double bed doors can be setup using (46) DB Door Assembly (06-082-190)
The 48” double bed doors can be set up using (48) DB Door Assembly (06-082-184)

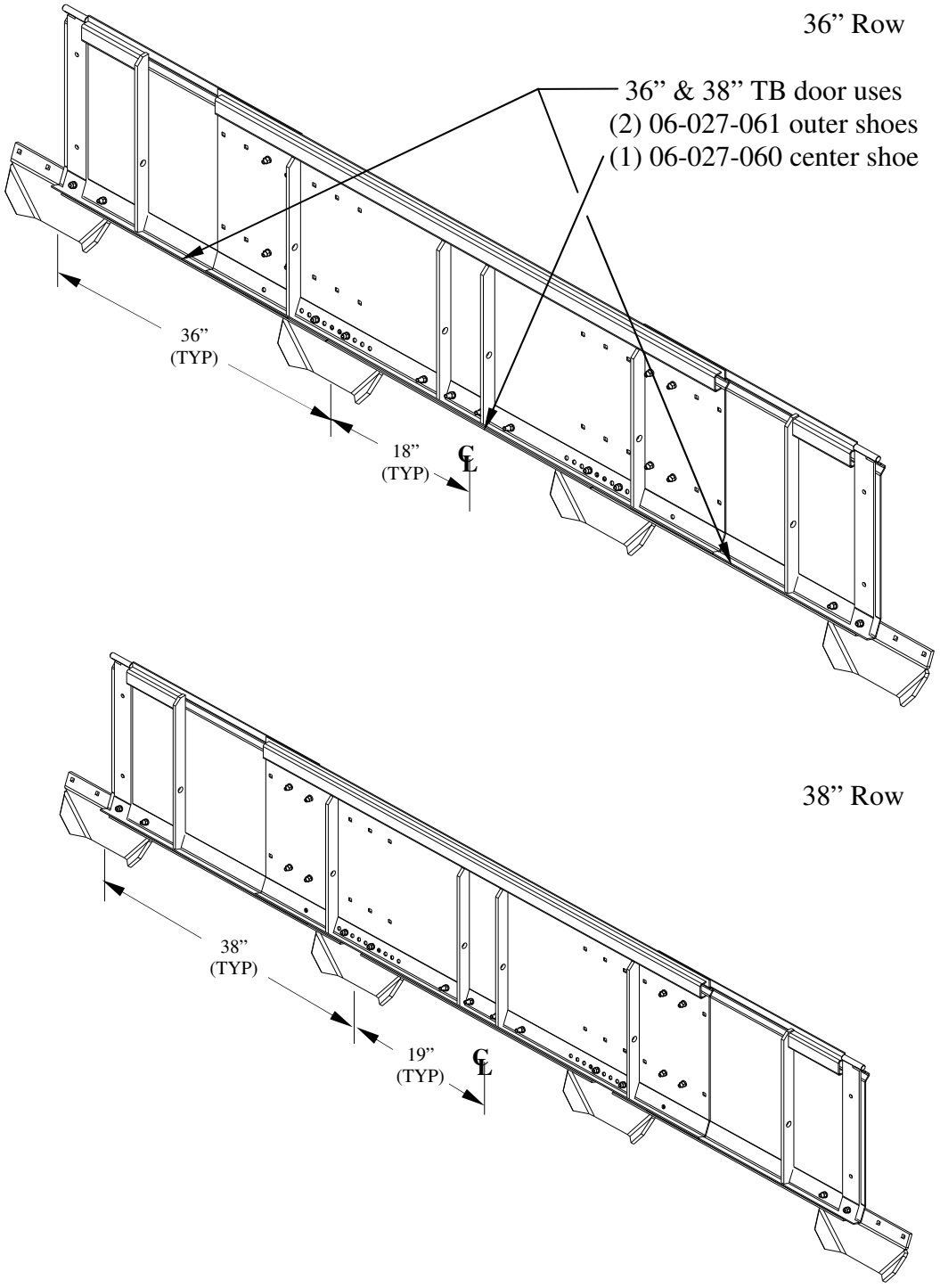


Triple Bedder Door Setups:

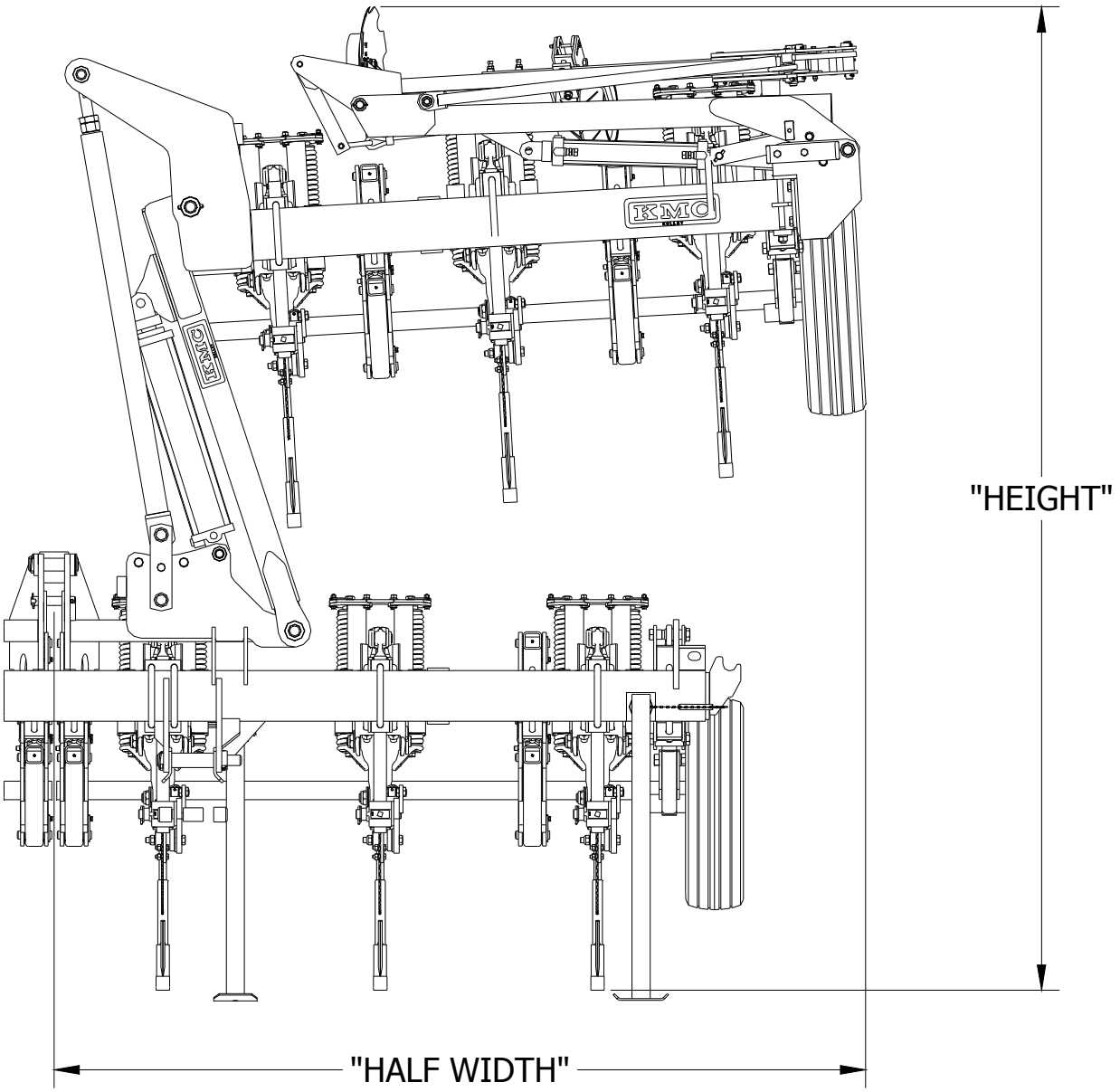
The following Triple bed doors can be set up using
(30) TB Door Assembly (06-082-181)



The following Triple bed doors can be set up using (36) TB Door Assembly (06-082-182)



RIPPER BEDDER STACKFOLD TRANSPORT DISTANCES:



MACHINE SIZE	HEIGHT	TRANSPORT HALF WIDTH (x2)
12/40 16/30	153”	154” X 2 = 308”
12(36-38)	152”	131” X 2 = 262”
12(30)	136”	111” X 2 = 222”
8(36-40)	140”	91” X 2 = 182”

Note: Use the “Overhead Layouts” portion of this section for the transport width of Rigid Bar units.

OPERATIONAL SETUP

TRACTOR PREPARATION:

Before operating implement refer to tractor operator's manual for information concerning safe methods of operation, hydraulics, hitch adjustment, tire inflation, wheel adjustments and tractor weights.

Check tractor brakes and warning lights, make sure they are in proper working order.

Check tractor hydraulics oil reservoir and add oil if needed.

IMPORTANT: It is recommended that the tractor's Draft Control Feature be disengaged for optimal performance of this tool.

WARNING

TRANSPORTING THE IMPLEMENT WILL ADD SIGNIFICANT WEIGHT TO YOUR TRACTOR. MAKE SURE THE TRACTOR IS PROPERLY BALLASTED.

Front-End Weights:

Use front-end weights as needed to provide effective steering control and front-end stability.

See your tractors Operator's Manual for recommendations on ballasting procedures.

WARNING

DO NOT EXCEED THE TRACTOR'S LIFT CAPACITY OR BALLAST RECOMMENDATIONS.

NOTE: Warranty consideration will only be given on items manufactured by Kelley Manufacturing Co.

Horse Power Requirements:

The power requirement for this unit is 25 - 40 HP per shank, depending on the depth of penetration and ground conditions. Select a tractor with sufficient power to operate this machine.

Sway Blocks

Sway blocks should be used and adjusted to limit movement in operating position. Your implement should be permitted to sway very little while operating and should be held rigid while transporting.

See your Tractor Operator's Manual.

Wheel Spacing

Set tractor wheels so they are equally spaced from center of tractor. If using the tool to penetrate in fields of row crops, set tractor wheels so they are centered between the rows.
See your Tractor Operator's Manual for correct tire inflation pressure.

Drawbar Position

Place the drawbar in the short, center position to provide maximum clearance between drawbar and tool.

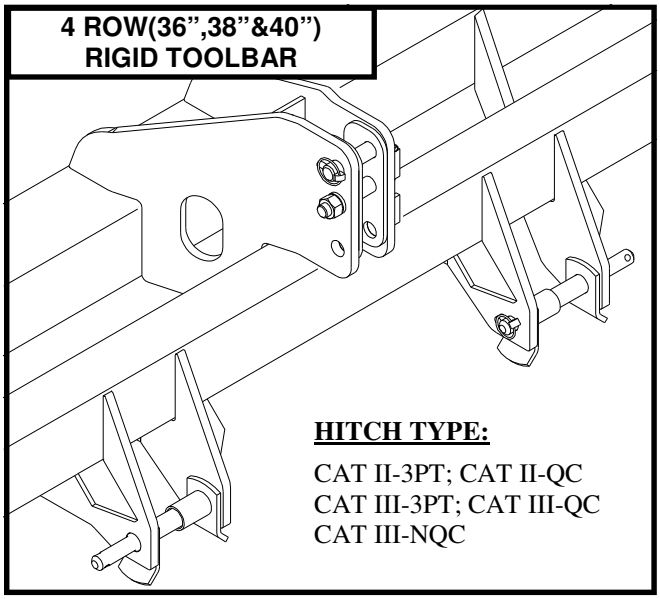
HITCHING TO THE IMPLEMENT

! IMPORTANT !

WARRANTY NOTE: Use of articulated four-wheel drive or track tractors with 3 point lift implements voids the warranty on the toolbar main frame. Sudden turns or steering corrections made by these types of tractors, when the implement is in the ground, can exert extreme forces through the implement's frame and/or shank components and cause unwarranted fatigue/failure.

Mast and Hitch Configurations

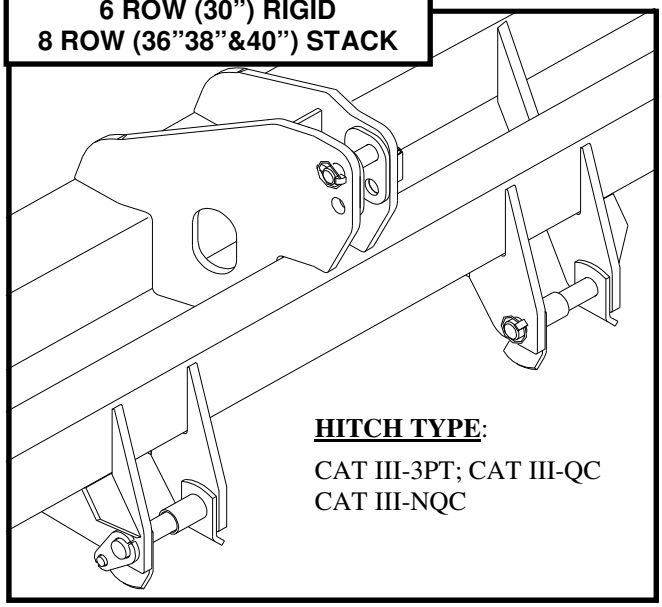
4 ROW(36",38"&40") RIGID TOOLBAR



HITCH TYPE:

CAT II-3PT; CAT II-QC
CAT III-3PT; CAT III-QC
CAT III-NQC

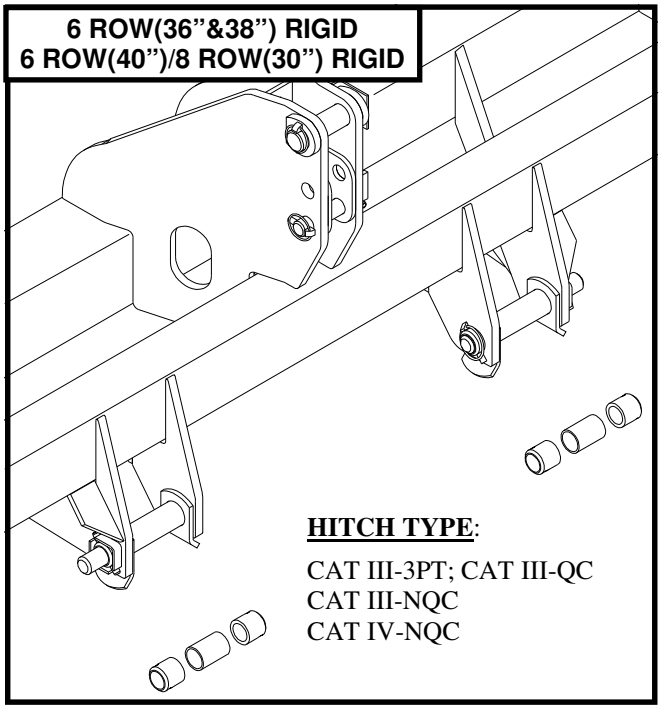
4-ROW (46" & 48") RIGID
6 ROW (30") RIGID
8 ROW (36"38"&40") STACK



HITCH TYPE:

CAT III-3PT; CAT III-QC
CAT III-NQC

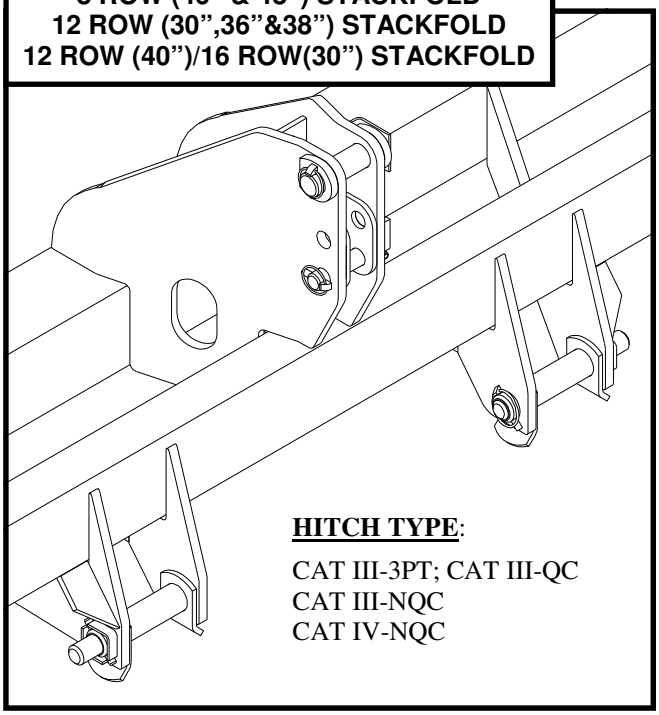
6 ROW(36"&38") RIGID
6 ROW(40")/8 ROW(30") RIGID



HITCH TYPE:

CAT III-3PT; CAT III-QC
CAT III-NQC
CAT IV-NQC

8 ROW (46" & 48") STACKFOLD
12 ROW (30",36"&38") STACKFOLD
12 ROW (40")/16 ROW(30") STACKFOLD



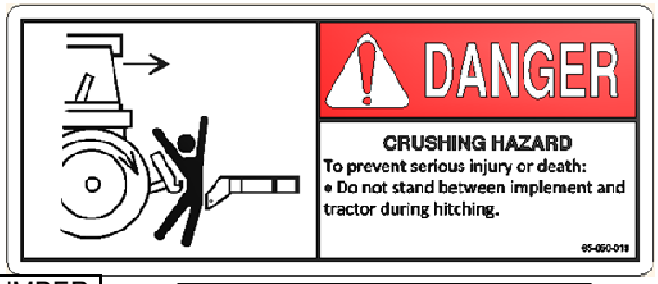
HITCH TYPE:

CAT III-3PT; CAT III-QC
CAT III-NQC
CAT IV-NQC

Tractor Hook-Up

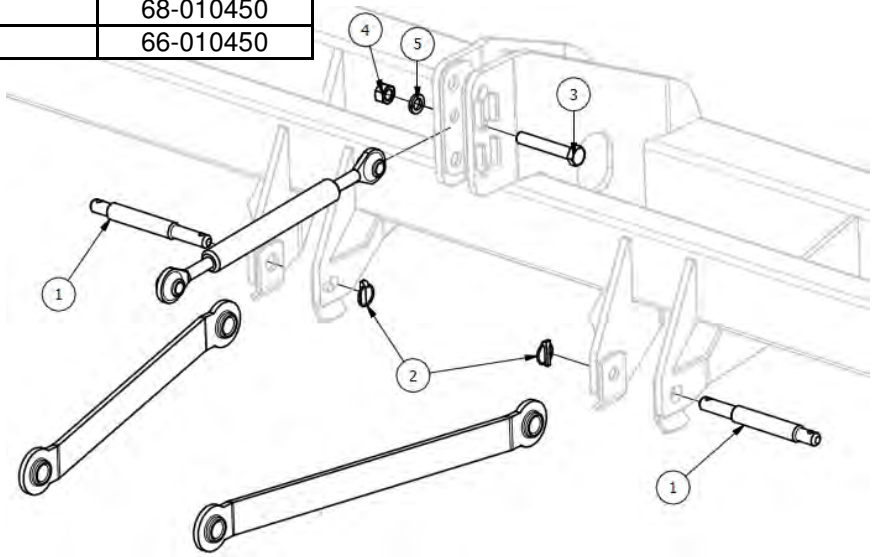
DANGER

DO NOT STAND BETWEEN TRACTOR AND IMPLEMENT DURING HITCHING.



ITEM	DESCRIPTION	PART NUMBER
1	STEP HITCH PIN, LONG PLT	05-026-008
2	KLIK PIN, 7/16 X 1 3/4	02-050-002
3	CAPSCREW, 1 X 6 G8 PLN	48-200450
4	HEXNUT, 1 PLT	68-010450
5	LOCKWASHER, 1 PLT	66-010450

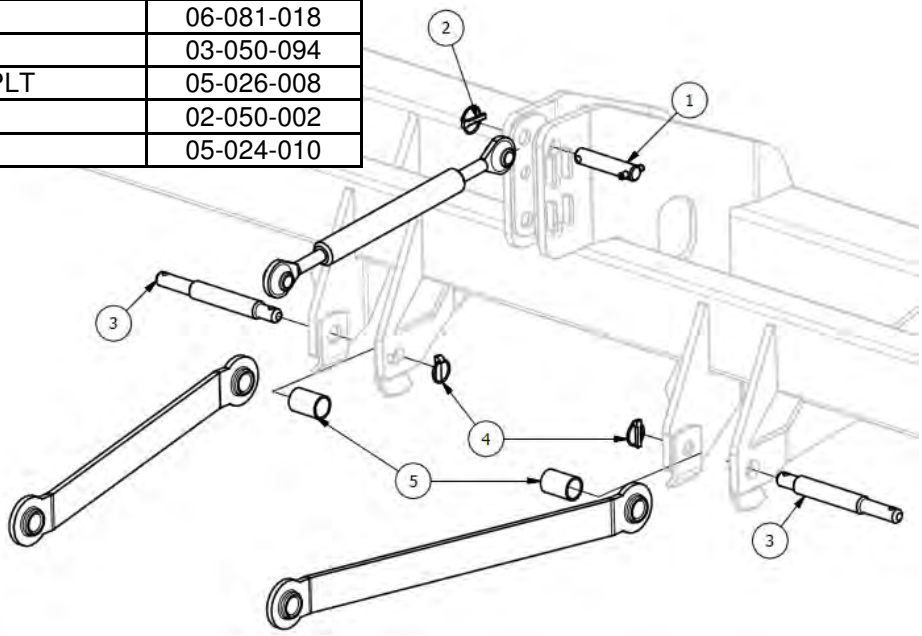
4-ROW(36",38"&40") RIGID TOOLBAR



CAT II 3-POINT HITCH

- Top link pins with bolt in center mast hole
- Lower links against inside of lower hitch
- Lower hitch pins with long small diameter to inside

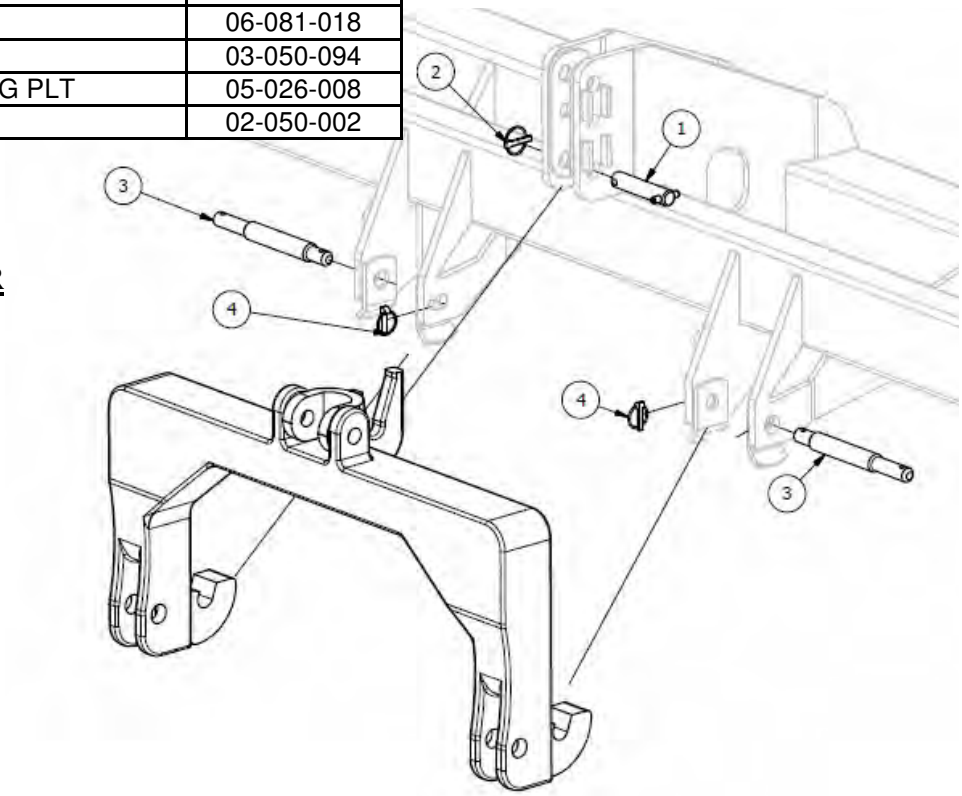
ITEM	DESCRIPTION	PART NUMBER
1	PIN, MAST	06-081-018
2	KLIK PIN, 7/16 X 2	03-050-094
3	STEP HITCH PIN, LONG PLT	05-026-008
4	KLIK PIN, 7/16 X 1 3/4	02-050-002
5	SPACER, CAT III	05-024-010



CAT III 3-POINT HITCH

- Top link pin in top mast hole
- Lower links against outside of lower hitch
- Lower hitch pins with long small diameter to outside
- Bushings against inside of lower hitches

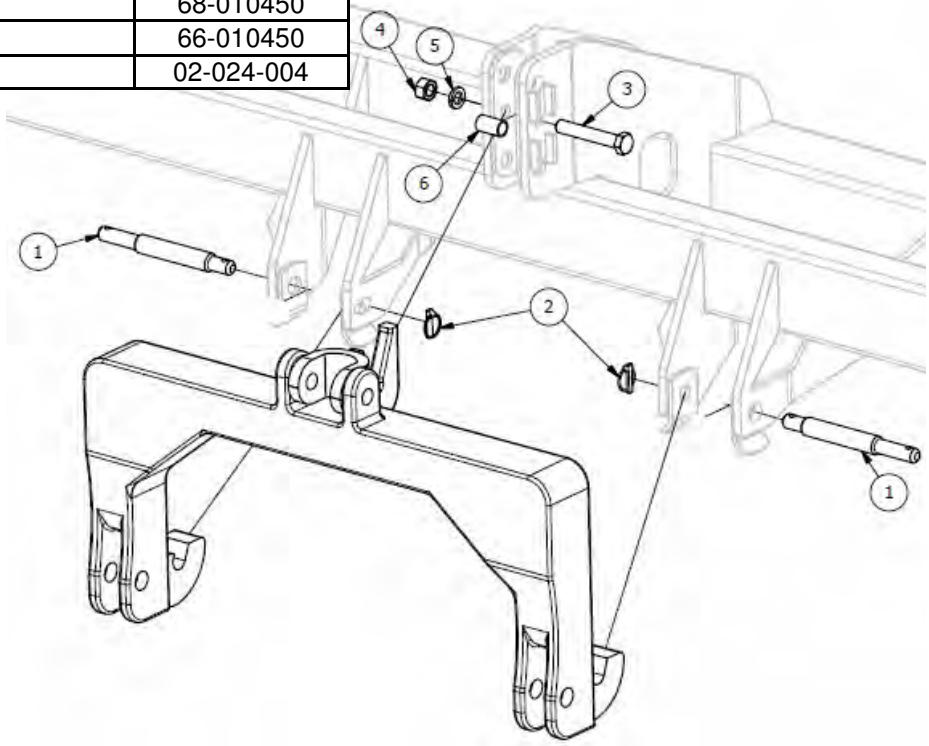
ITEM	DESCRIPTION	PART NUMBER
1	PIN, MAST	06-081-018
2	KLIK PIN, 7/16 X 2	03-050-094
3	STEP HITCH PIN, LONG PLT	05-026-008
4	KLIK PIN, 7/16 X 1 3/4	02-050-002



CAT II QUICK COUPLER

- QC hooks pin in lower mast hole
- QC against inside of lower hitches
- Lower hitch pins with long small diameter to outside

ITEM	DESCRIPTION	PART NUMBER
1	STEP HITCH PIN, LONG PLT	05-026-008
2	KLIK PIN, 7/16 X 1 3/4	02-050-002
3	CAPSCREW, 1 X 6 G8 PLN	48-200450
4	HEXNUT, 1 PLT	68-010450
5	LOCKWASHER, 1 PLT	66-010450
6	8 X 10 SPACER (SHORT)	02-024-004



CAT III / IIIN QUICK COUPLER

- QC hooks bolt with spacer in center mast hole
- QC against outside of lower hitches
- NQC against inside of lower hitches
- Lower hitch pins with long small diameter to outside

DANGER

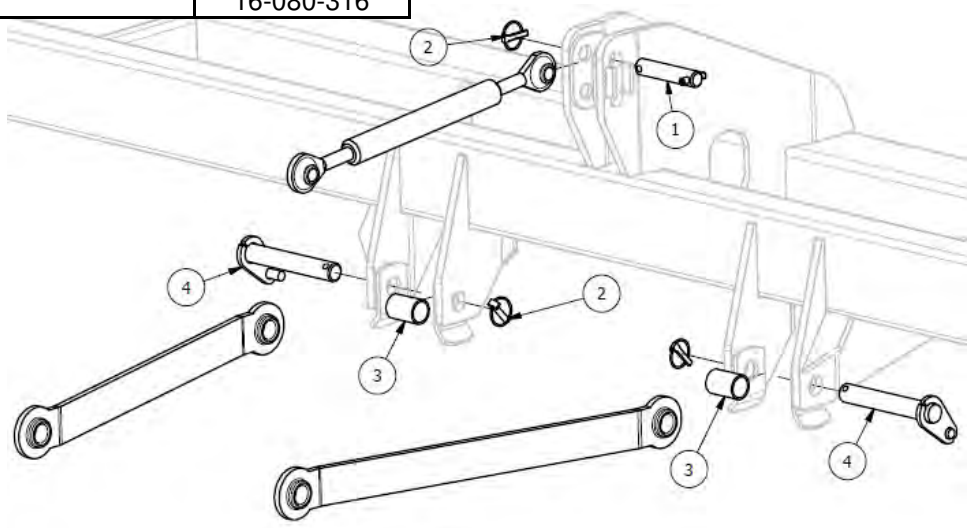
DO NOT STAND BETWEEN TRACTOR AND IMPLEMENT DURING HITCHING.

4 ROW (46” & 48”) RIGID
6 ROW(30”) RIGID
8 ROW(36”38”&40”) STACK

ITEM	DESCRIPTION	PART NUMBER
1	PIN, MAST	06-081-018
2	KLIK PIN, 7/16 X 2	03-050-094
3	SPACER, CAT III	05-024-010
4	PIN, CAT III-IIN HITCH	16-080-316

CAT III 3-POINT HITCH

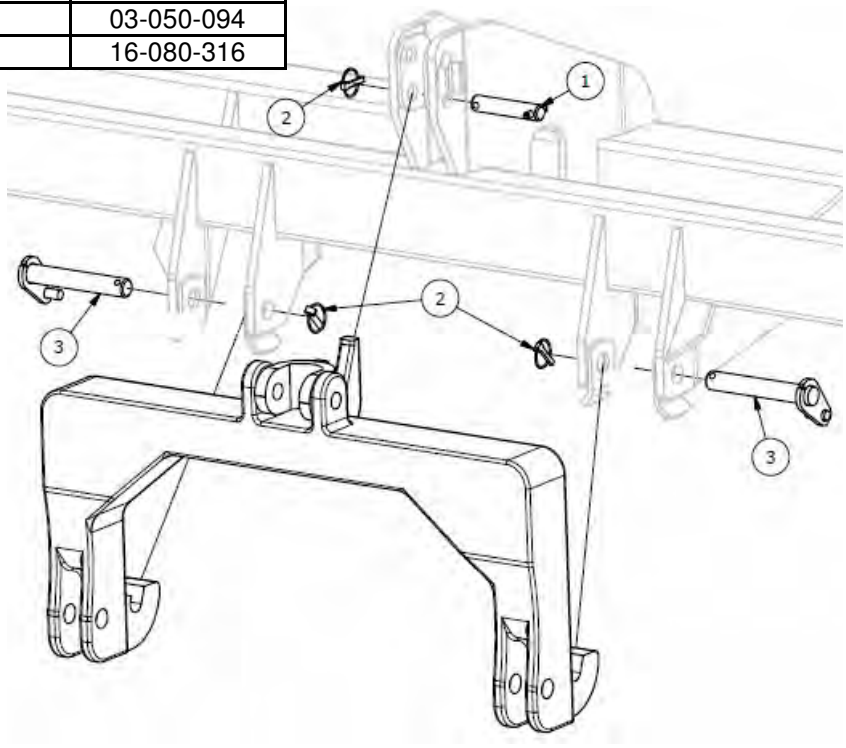
- Top link pin in top mast hole
- Lower links against out-side of lower hitch
- Bushings against inside of lower hitches



ITEM	DESCRIPTION	PART NUMBER
1	PIN, MAST	06-081-018
2	KLIK PIN, 7/16 X 2	03-050-094
3	PIN, CAT III-IIN HITCH	16-080-316

CAT III / IIIN QUICK COUPLER

- QC hooks pin in bottom mast hole
- QC against outside of lower hitches
- NQC against inside of lower hitches



DANGER

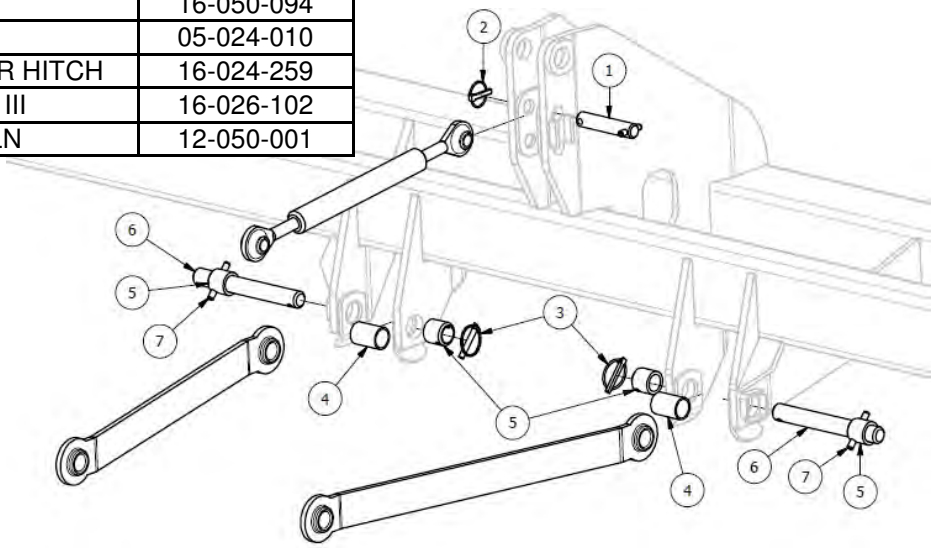
DO NOT STAND BETWEEN TRACTOR AND IMPLEMENT DURING HITCHING.

6 ROW(36”&38”) RIGID 6 ROW(40”)/8 ROW(30”) RIGID	8 ROW (46” & 48”) STACKFOLD 12 ROW(30”,36”&38”) STACKFOLD 12 ROW(40”)/16 ROW(30”) STACKFOLD

ITEM	DESCRIPTION	PART NUMBER
1	PIN, MAST	06-081-018
2	KLIK PIN, 7/16 X 2	03-050-094
3	KLIK PIN, 7/16 X 2 3/4	16-050-094
4	SPACER, CAT III	05-024-010
5	BUSHING, CAT III LOWER HITCH	16-024-259
6	PIN, LOWER HITCH CAT III	16-026-102
7	ROLL PIN, 1/2 X 3 1/2 PLN	12-050-001

CAT III 3-POINT HITCH

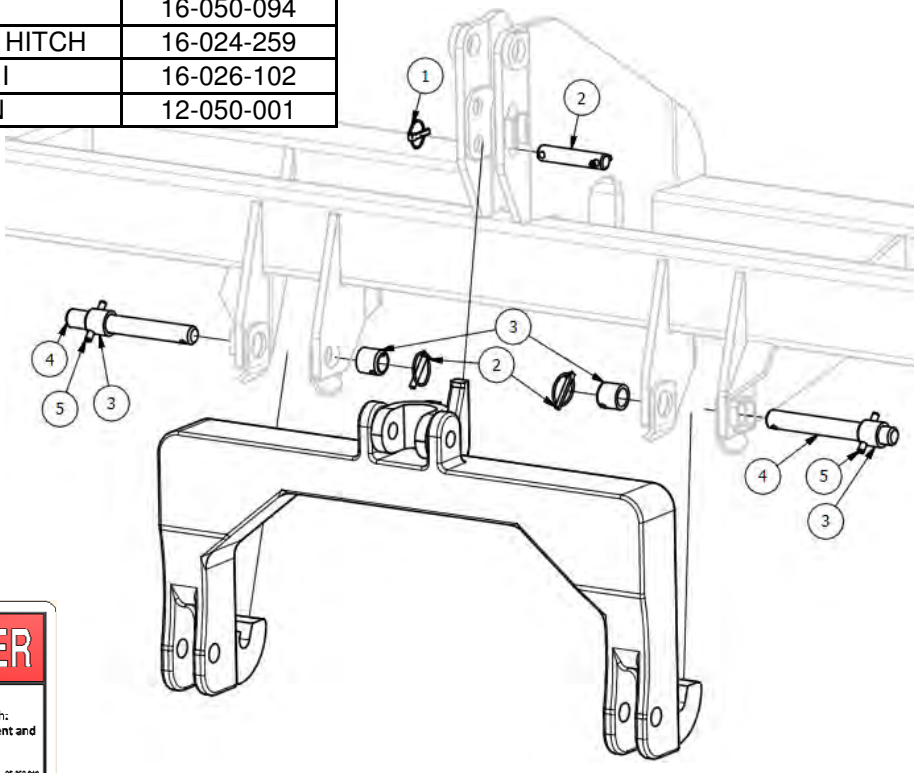
- Top link pin in center mast hole
- Lower links against outside of lower hitch
- Bushings against inside of lower hitches

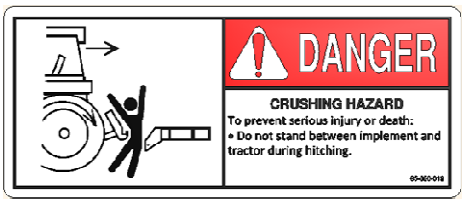


ITEM	DESCRIPTION	PART NUMBER
1	KLIK PIN, 7/16 X 2	03-050-094
2	KLIK PIN, 7/16 X 2 3/4	16-050-094
3	BUSHING, CAT III LOWER HITCH	16-024-259
4	PIN, LOWER HITCH CAT III	16-026-102
5	ROLL PIN, 1/2 X 3 1/2 PLN	12-050-001

CAT III / IIIN QUICK COUPLER

- QC hooks pin in bottom mast hole
- QC against outside of lower hitches
- NQC against inside of lower hitches

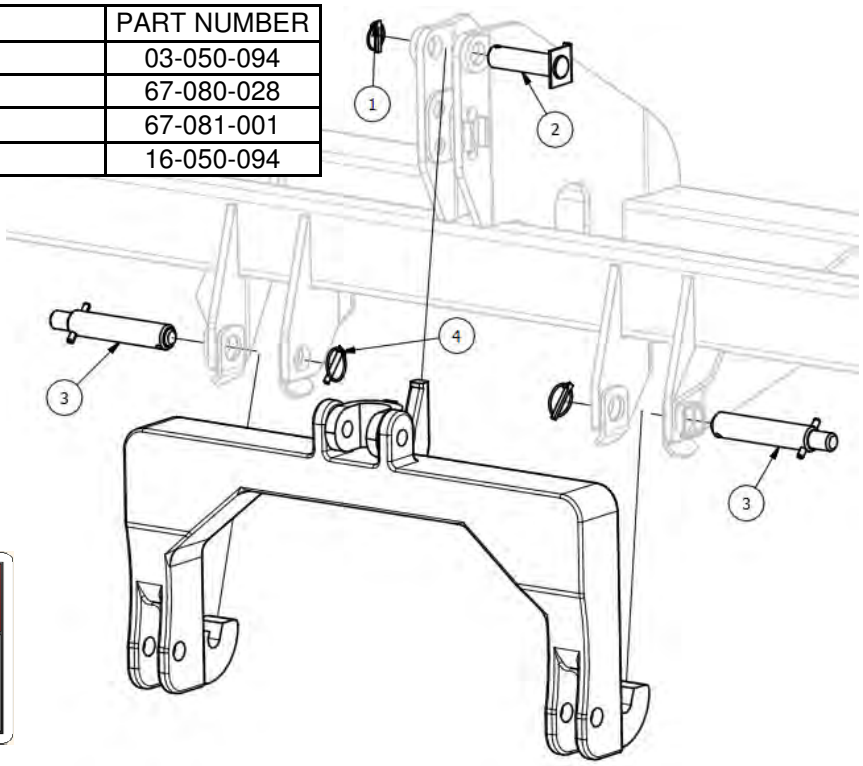




DANGER

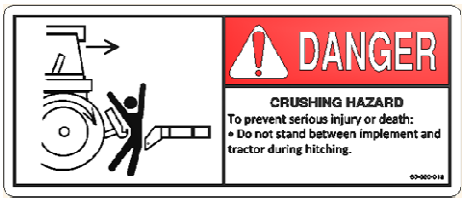
DO NOT STAND BETWEEN TRACTOR AND IMPLEMENT DURING HITCHING.

ITEM	DESCRIPTION	PART NUMBER
1	KLIK PIN, 7/16 X 2	03-050-094
2	PIN, CAT IV MAST	67-080-028
3	PIN ASSY, CAT IV HITCH	67-081-001
4	KLIK PIN, 7/16 X 2 3/4	16-050-094



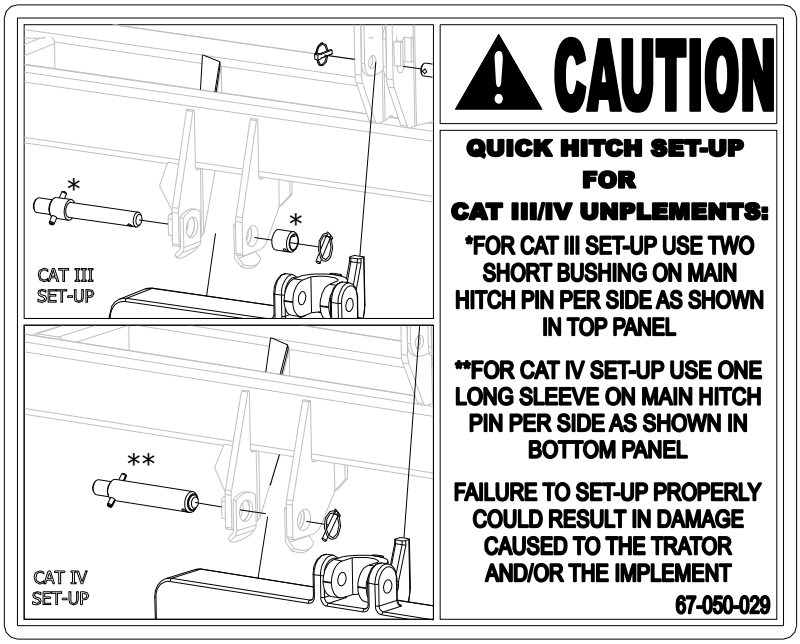
CAT IV NARROW QUICK COUPLER

- QC hooks pin in top mast hole
- QC against outside of lower hitches



DANGER

DO NOT STAND BETWEEN TRACTOR AND IMPLEMENT DURING HITCHING.

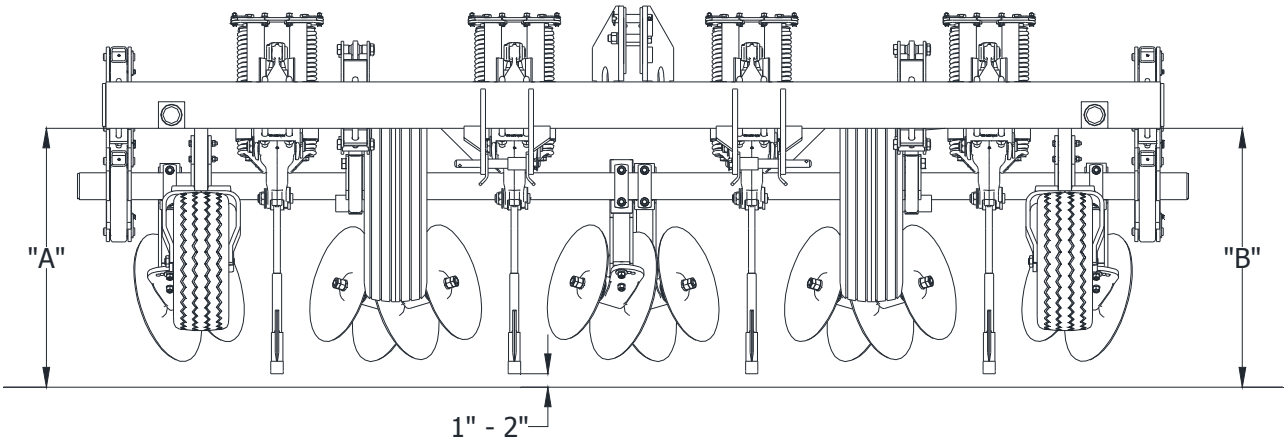


REMEMBER THINK SAFETY!

LEVELING IMPLEMENT TOOL BAR

For best results, when leveling the implement, position the tractor with implement on a level floor. Check tractor tire pressure and inflate equally from side to side. See your tractor operator's manual for correct tire inflation pressure.

Leveling Side To Side

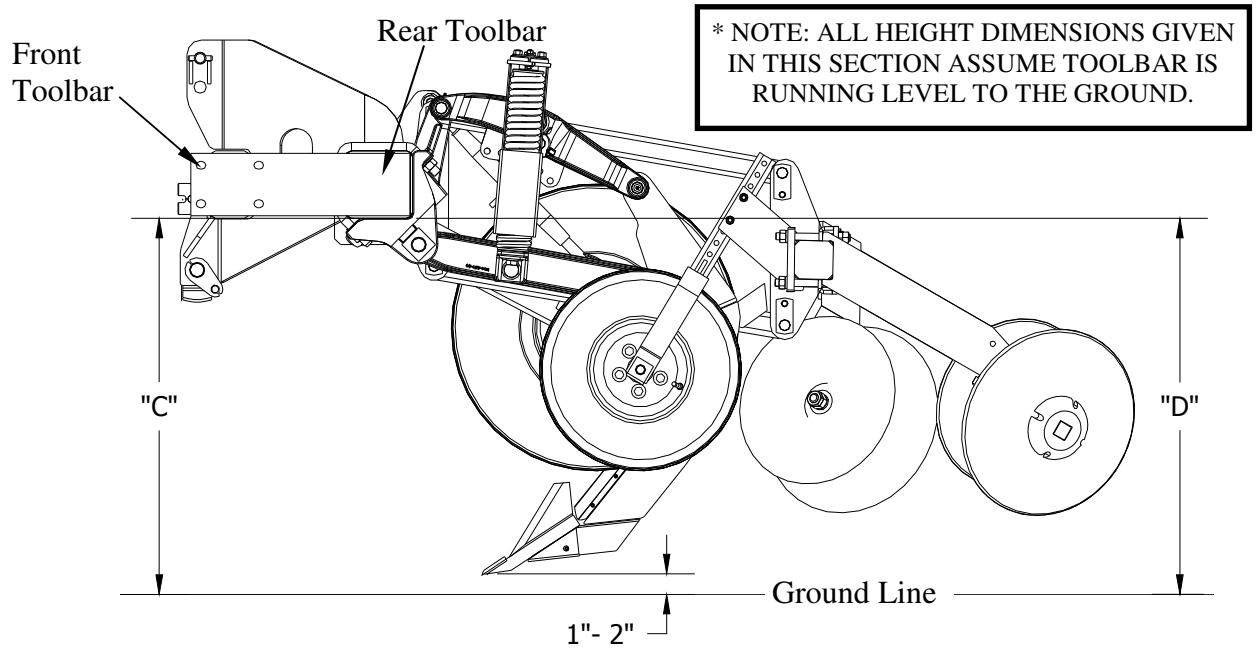


With the implement attached to tractor, raise the unit 1 to 2 inches off the floor. Shut-off engine and lock brakes on tractor. Measure to the bottom edge of the rear toolbar tube on each side of the machine. Toolbar will be level when dimension "A" is the same as dimension "B" as shown in drawing above. Level toolbar from side to side by adjusting the lift links on tractor 3-point hitch.

Before adjusting 3-point links see your tractor operator's manual for correct adjustment procedures and safety requirements.

Leveling Front To Rear

Before setting the Gauge wheels it is necessary to level the toolbar from the front to the rear. For initial adjustment keep the machine raised off the ground 1 to 2 inches (being sure bottom of shanks clear floor). Measure from the floor to the bottom of the front toolbar tube and the rear toolbar tube. If toolbar is not level from front to rear with ground line, extend or retract the tractor top link until toolbar is parallel (or level) to the ground line. Toolbar will be level when dimension "C" is the same as dimension "D". Further front to back adjustment will be required once machine is operated in the field. When properly leveled, all tillage components will enter the ground uniformly.

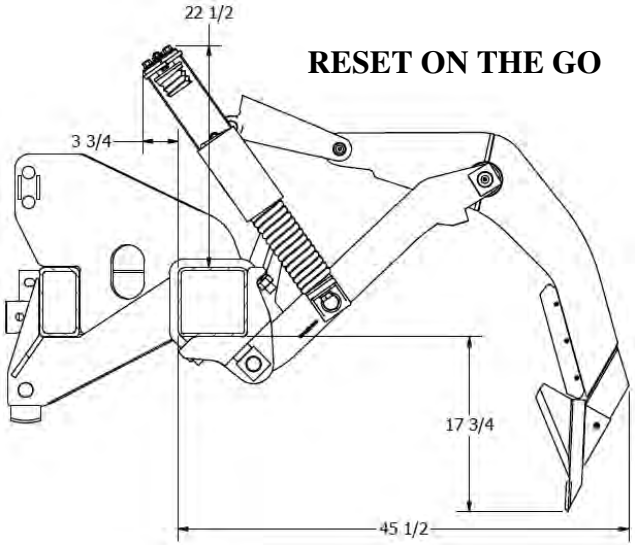


IMPLEMENT PREPARATION

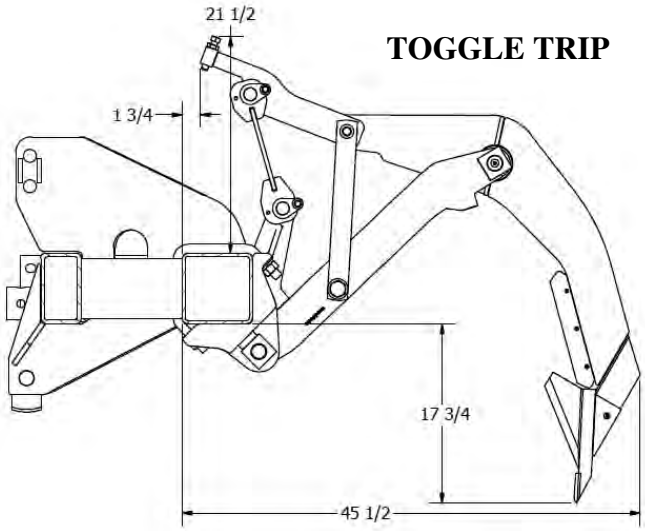
Ripper Shank Tools

Tripped Shank Clearances

It is common practice to mount aftermarket equipment on a KMC toolbar, such as fertilizer tanks or aftermarket row markers. It is critical that all aftermarket equipment is located properly on the toolbar so that it will not interfere with the reset mechanism on the ripper shanks. A tripping shank can be violent and damage anything in its path. Particular care should be taken around Reset on the Go shanks as the spring towers flex when the shank resets itself. Below are computer generated clearance dimensions for each type of shank, however since actual dimensions are hard to determine, additional clearance should be added. Routinely inspect aftermarket equipment and top of ripper shanks for signs of interference during implement use.



RESET ON THE GO

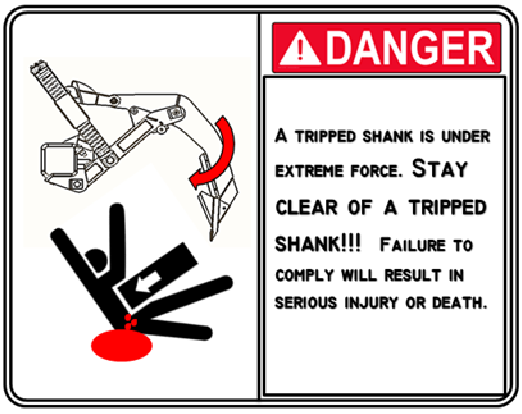


TOGGLE TRIP

CAUTION

USE CAUTION WHEN MOUNTING AFTERMARKET EQUIPMENT OR TANKS ON A 6000 SERIES TOOLBARS. A TRIPPING SHANK CAN BE VIOLENT AND CAN DAMAGE ANYTHING IN ITS PATH.

Reset On The Go Shank

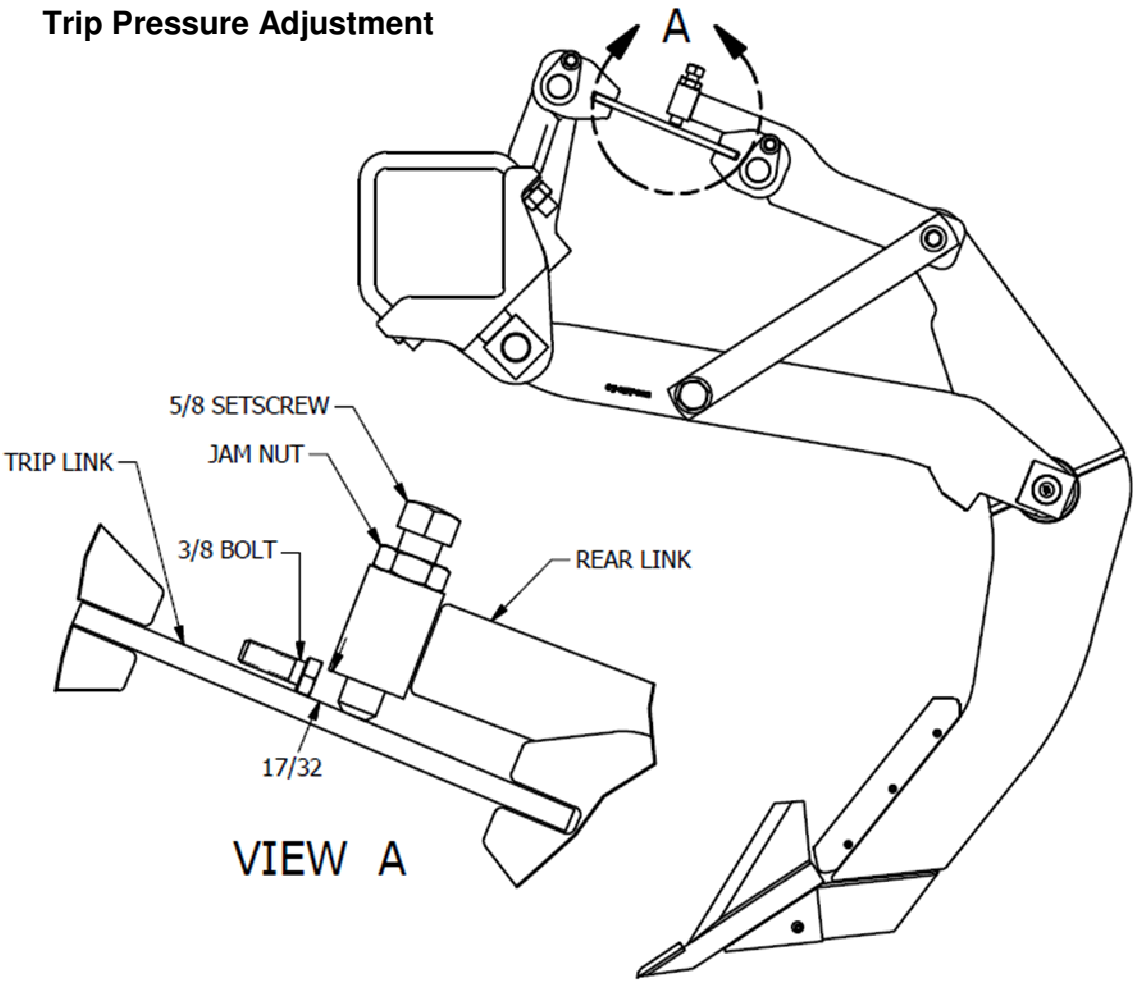


The Reset On The Go ripper shank (RSOG) is designed to trip when the shank encounters an immovable object in the ground such as a stump or large rock. The force of the impact causes the two top linkages to open in the center, allowing the shank to move up and over the obstruction. Once the shank is clear of the ground, the two reset springs pull the two top linkages downward. This kicks the shank point forward to reset and downward to re-penetrate the ground. Because this shank resets itself as the tractor is moving forward, there is no need to stop if a shank trips. The RSOG shank has been designed to have a fixed trip pressure and requires no adjustment before or during use. However, trip pressures can inadvertently be varied by unwanted friction in the pivot pins. If the pivot pins are not greased as recommended the trip pressure on the point may be increased beyond safe limits. A strict maintenance schedule will keep the RSOG shank operating correctly and safely for the longest period of time. (See the "**Service Schedule**" under the "**Maintenance**" section)

Toggle Trip Shank

The Toggle Trip ripper shank is designed to trip when the shank encounters an immovable obstacle. The trip link will flex causing the center pin to rise and the shank to pivot vertically rearward, up and over the obstacle. To reset the Toggle Trip ripper shank, the toolbar should be lifted until the ripper points on all shanks are above the ground. Once clear, gravity will cause the tripped shank to swing down pulling the trip links back into their initial positions. The toolbar can then be lowered and use can continue as normal.

Trip Pressure Adjustment



The trip force of the Toggle Trip ripper shank is set using the 5/8 setscrew. The setscrew rests against the top surface of the trip link and holds the front end of the rear link member. The distance the set-screw is threaded out between the top of the trip link and the bottom of the rear link is set to 17/32" at the factory and should not need further adjusting. However, should the setscrew need adjusting, the proper steps for setting the setscrew distance are:

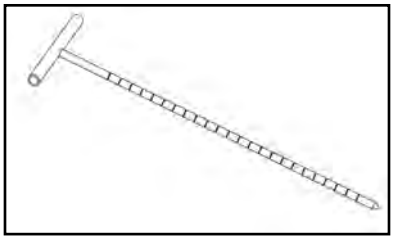
1) Place the head of a 3/8" bolt between the trip link and the bottom of the rear link,
2) Adjust setscrew until the end just touches the top of the trip link,
3) Remove 3/8" bolt,
4) Turn the setscrew ¼ turn counter-clockwise and lock in place with the jam nut

WARNING

Any distance less than 17/32" can cause severe damage to the trip mechanism and the shank may not trip if it hits an obstacle, causing damage to the entire shank and possibly the toolbar.

Depth of Penetration

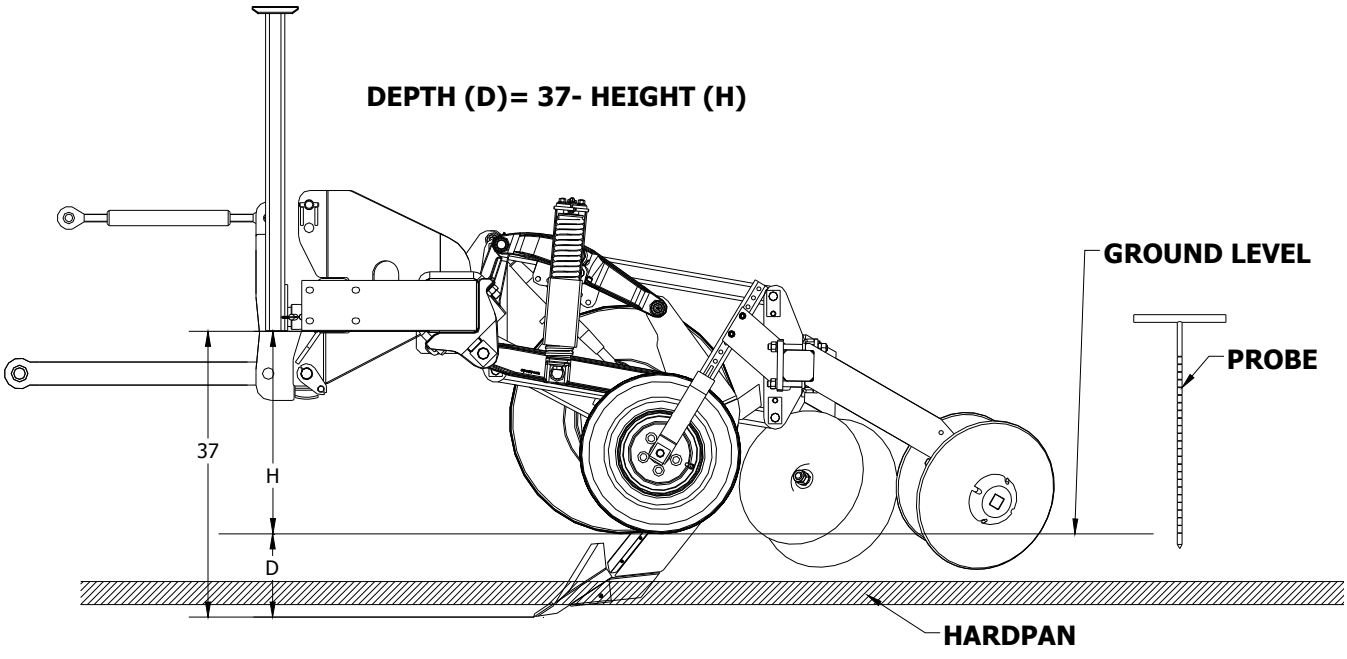
The purpose of a deep tillage tool is to fracture the compacted layer of soil beneath the surface known as the hardpan. The hardpan, usually only a couple inches thick, prevents plant roots from reaching moisture and nutrients below. The deep tillage tool is designed to run 1"-2" below the hardpan, fracturing it and allowing plant roots to reach the moisture and nutrients it needs. A probe, like the one shown here, is used to determine how deep the hardpan is under the surface. To use, insert the tip of the probe into the ground and add down pressure on the handle until the probe gets hard to push. Mark the ground level on the probe remove it from the ground. The distance from the tip of the probe to the ground level mark is the distance to the hardpan. For accurate results several measurements should be taken and averaged together. Once the depth of the hard pan is determined the machine depth can be set 1in-2in below this depth.



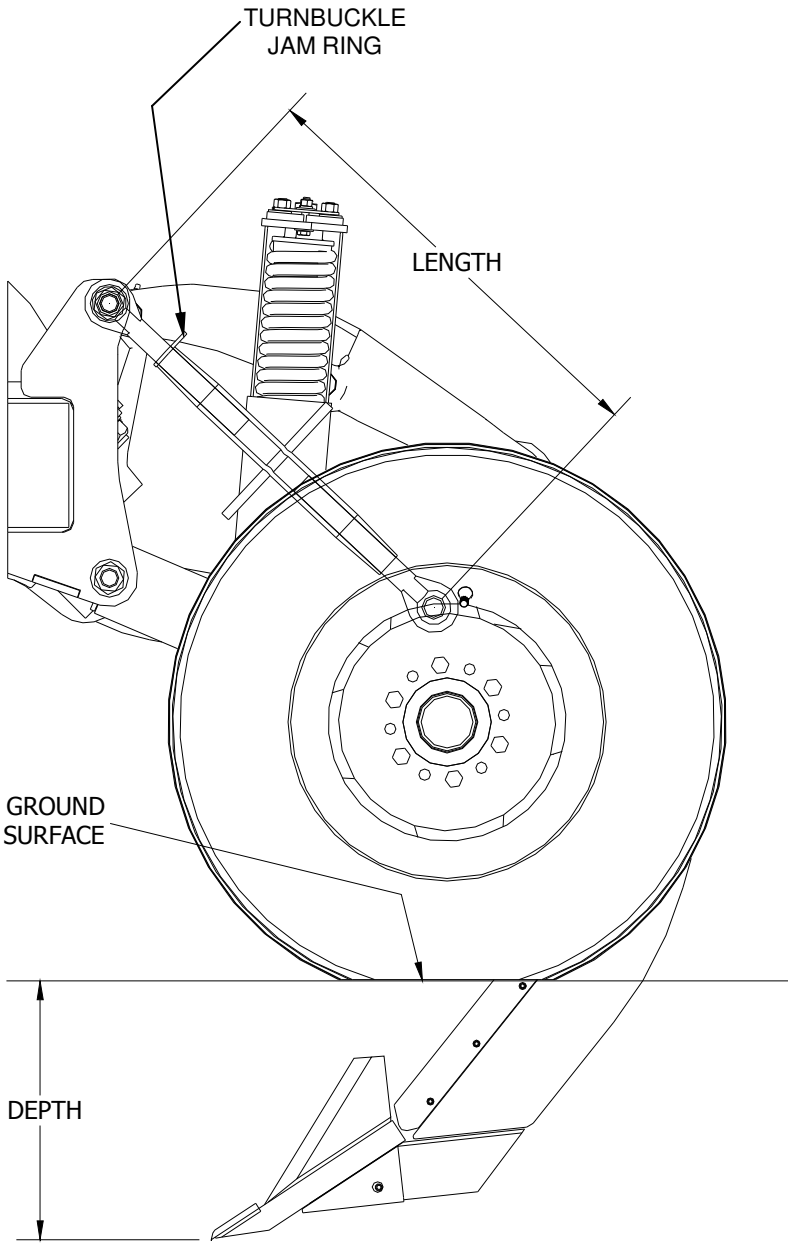
***Note: Maximum shank depth below surface is 18in.**

Setting Operating Depth

1) Set the machine on a level surface with shank points just touching the ground.
2) Measure the distance from the level surface to the bottom surface of the toolbar gauge wheel. (This will be the approximate operating depth (D))
3) Adjust turnbuckles on Gauge Wheels until the desired depth is set.
4) Take the implement to the field and pull the shanks into the ground until the Gauge Wheel is supporting the rear of the machine.
5) Measure the distance from the bottom of the toolbar to the ground to get the toolbar height.
6) Subtract this number from 37 to determine the actual working depth of the shanks. (It is 37in from the bottom of the toolbar to the point on the shank.
7) Raise implement slightly and adjust Gauge Wheel as needed to set desired working depth.



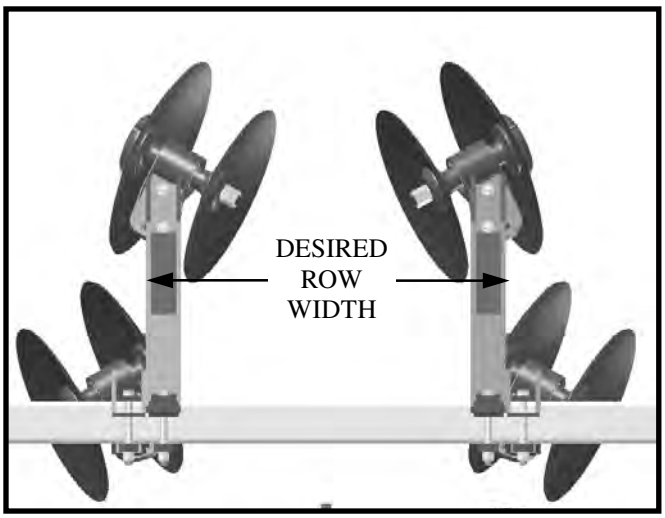
Toolbar Gauge Wheel Adjustment

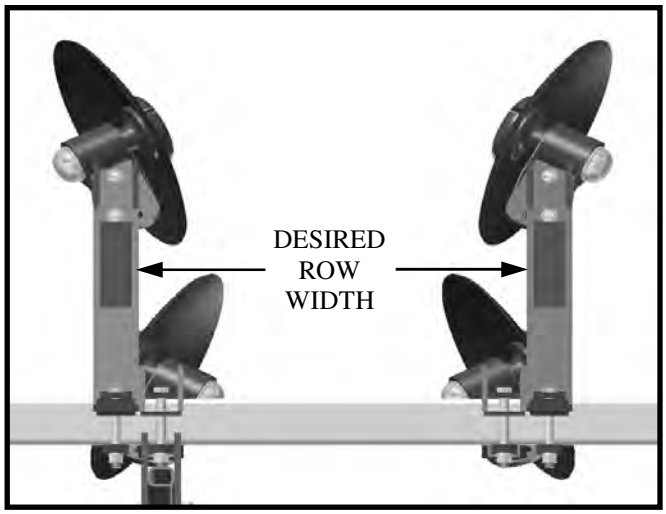


TURNBUCKLE LENGTH	WORKING SHANK DEPTH
20 1/2”	18”
21 1/4”	17”
22”	16”
22 1/2”	15”
23”	14”
23 1/2”	13”
24”	12”
24 3/4”	11”
25 1/2”	10”

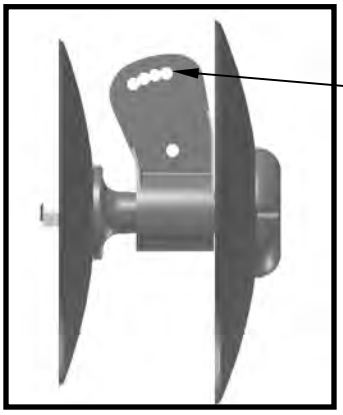
The toolbar gauge wheel, on the back 7x7 toolbar of the Ripper Bedder machine, is used to gauge the working depth of the shank. Any adjustments done to the height of the toolbar gauge wheel will directly affect the depth at which the shank penetrates the ground. Adjusting the height of the gauge wheel is done through the turnbuckle that holds the main gauge wheel arm to the gauge wheel mount bracket. (See **“Assembly Set-Up”** instructions for more information.) To adjust the height of the gauge wheel simply twist the turnbuckle in or out until the desired tire height is achieved. Above is a chart showing the length between the pin locations on the turnbuckle and the corresponding working shank depths. Since the toolbar is held up by multiple gauge wheels, it will be necessary to adjust each gauge wheel to the same turnbuckle length. Once all the turnbuckles have been adjusted lock the distance with the turnbuckle jam ring.

Row Spacing Setup of Disc Gangs



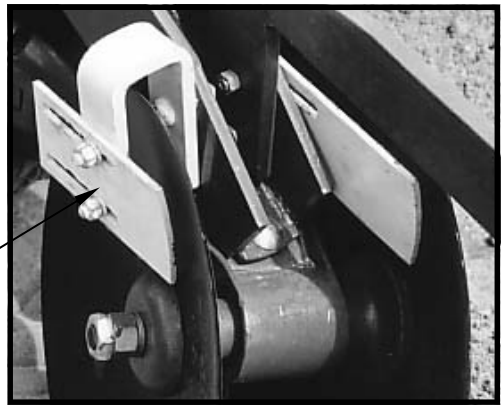


If a small bed is desired, operate disc gangs with the minimum cutting angle; if a flat bed is desired, operate disc gangs in the middle holes; if a high bed is desired, operate disc gangs with the maximum cutting angle.



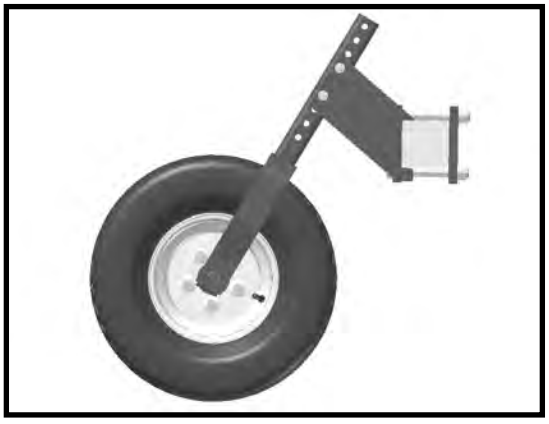
Disc gangs are provided with 4 cutting angle adjustments.

Adjust scrapers for maximum effectiveness.



NOTE: After operating your Ripper-Bedder for a short period, check all adjustments and retighten all bolts.

Bedder Gauge Wheel Adjustments



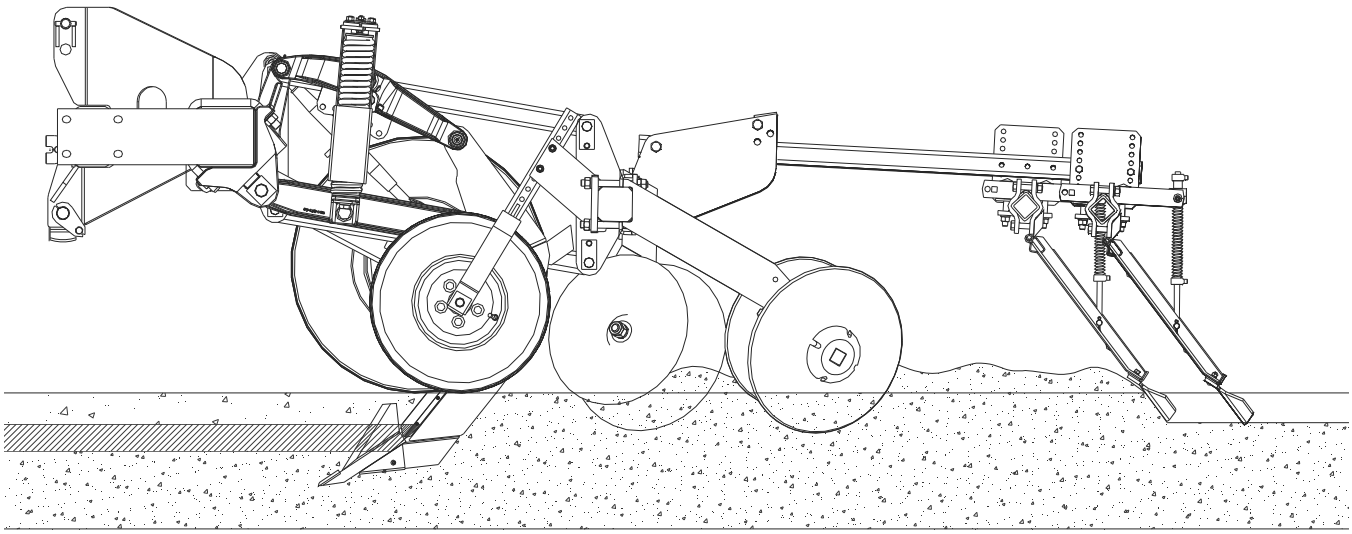
Rear 8 x 10 Press Wheels (06-082-025) are use to help regulate the Disc Gangs depth of penetration. Adjustments can be made by removing the (2) 1/2 x 4 capscrews, lockwashers, and hexnuts, then sliding the tube up or down to the next set of hole for the desired setting.

Ripper Bedder Tracking Adjustments

Ripper Bedders, especially the wider units can have tracking problems because of their width and distance of the Bedder disc from the tractor. Sometimes the smallest adjustment will make a big change in the implement tracking. A Ripper Bedder shank running off center from its true position will cause difference in measurement on the guess row width when measuring the bed centers.

For the Ripper Bedder to track true with the tractor, the following adjustment guidelines are recommended:

1. Check the tractor 3-point lower arms lift links and sway blocks to make sure they are adjusted equally from side-to-side (Refer to the tractor operator's manual for the proper procedure).
2. Follow the adjustment procedures as previously outlined for leveling the implement frame from side-to-side and front-to-rear. (Page 62)
3. On wing units - level wings.
4. Check the Ripper Bedder Toolbar gauge wheels to make sure they are adjusted equally across the entire machine.
5. Check the Bedder disc gang to make sure all disc are set to the same hole angle.
6. Adjusting the tractor top link in (or out) to level the Ripper Bedder front-to-rear. When running the desired depth.

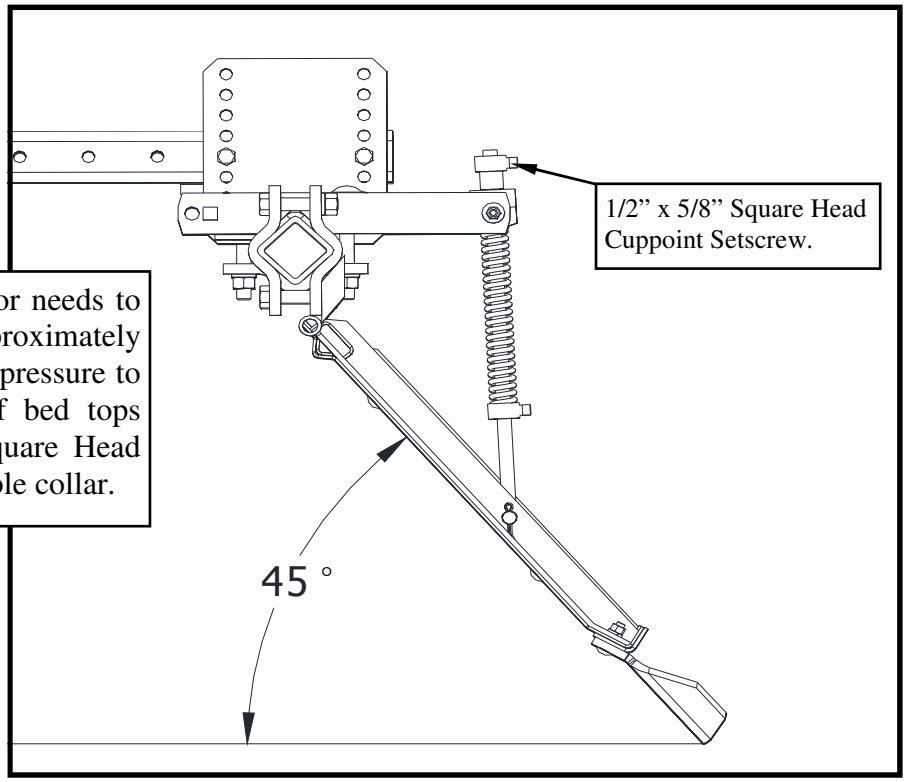


A Ripper Bedder set-up with an opposed disc gang angle will have minimal tracking issues due to the fact that all the disc on the back row are trying to counter the pull from their opposing disc this balances out the pulling forces. (Refer to set-up layouts pages 14-44). Only for heavy trash should a Ripper Bedder be set up staggered where pulling to one side will be a problem.

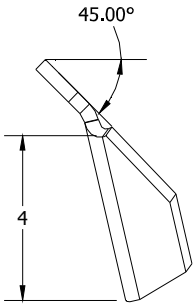
* On staggered bedder disc set-ups:

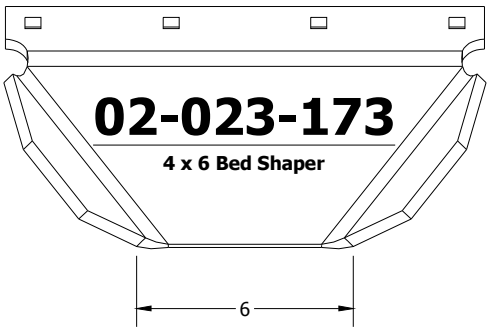
- If the Ripper Bedder is pulling to one side or the other, lengthen or shorten the tractor top link to compensate.

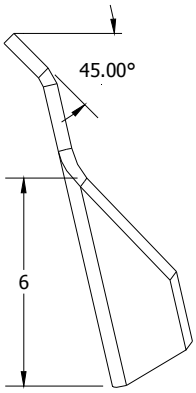
For best performance the rear door needs to be adjusted where doors are at approximately 45° to the ground. Adjust spring pressure to add force or reduce firmness of bed tops by loosening the 1/2” x 5/8” Square Head Cuppoint Setscrew on top adjustable collar.

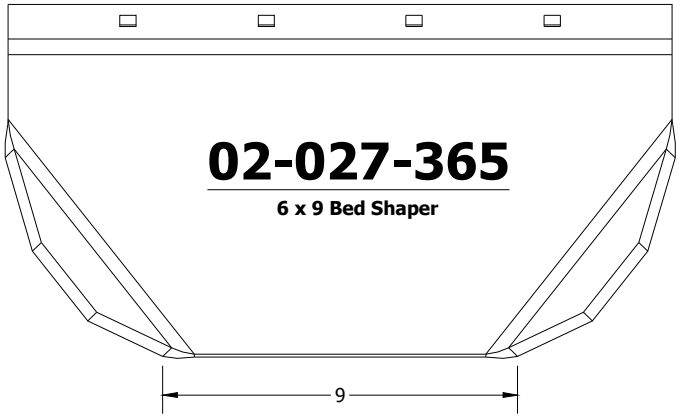


Bed Shaper Plates Dimensions









START-UP

Before initial operation of this piece of equipment, review the "**Pre-Operational Checklist**" at the front of this manual. Make sure all fields of the checklist have been performed and make any notes necessary for future operators. Your piece of equipment should now be ready for field operation.

NOTES:

MAINTENANCE

SERVICE SCHEDULE

The 6800 KMC Ripper Bedder has been carefully designed and manufactured to provide years of dependable service. To maximize use and reduce downtime and repair costs, regular maintenance should be performed on the Ripper Bedder. Below is a guide for minimum recommended services and the time intervals for their completion. However, since these machines are used in many different conditions and applications, the operator should customize the maintenance schedule to best fit their individual needs.

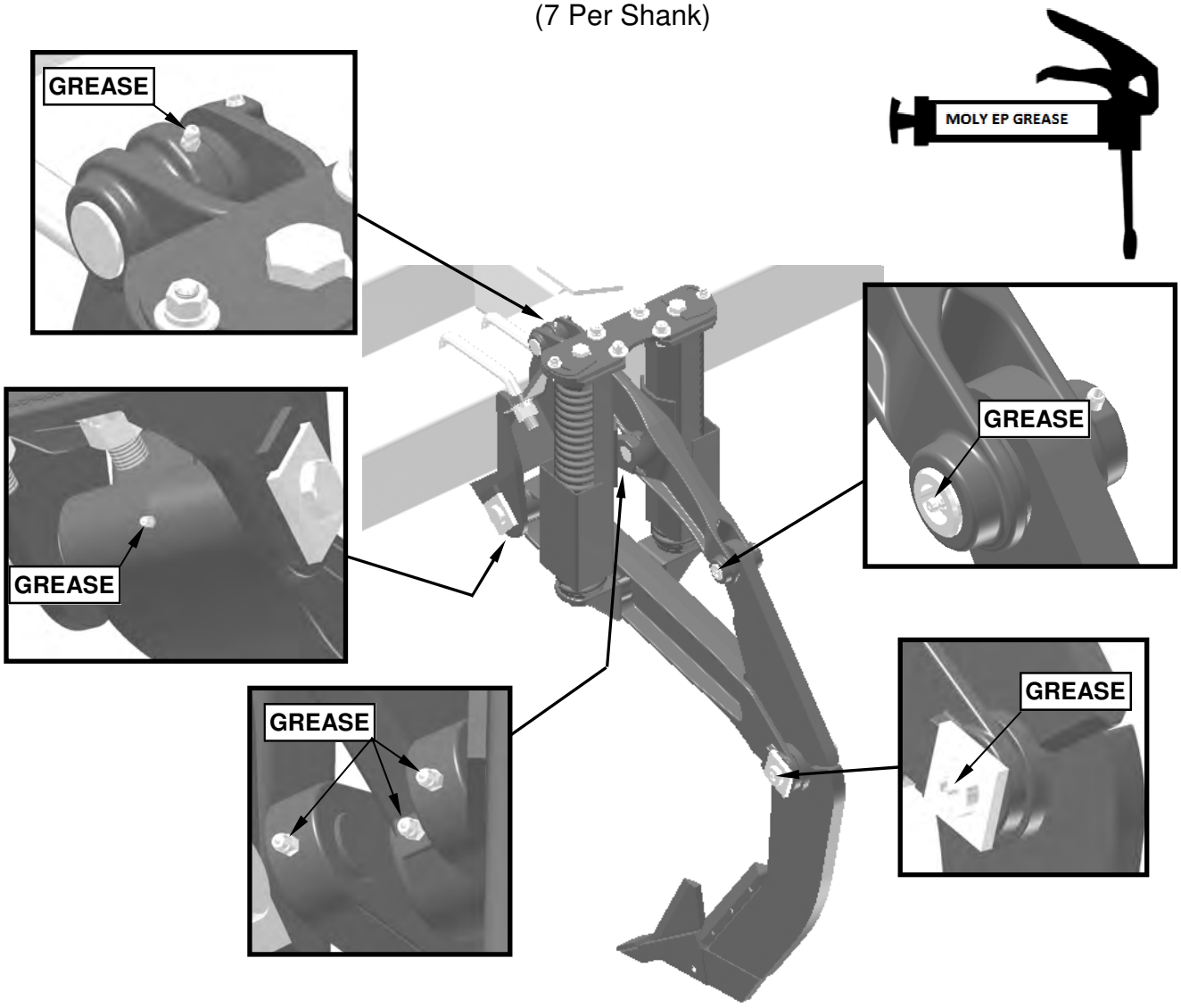
	SERVICE	EVERY 10 HOURS	EVERY 50 HOURS	EVERY 250 HOURS
1	INSPECT RIPPER POINTS (REPLACE AS NEEDED)	X		
2	INSPECT WEAR SHINS (REPLACE AS NEEDED)	X		
3	LUBRICATE ALL GREASE POINTS * EXCEPT RESET-ON-THE-GO (See Page 72 For Grease Schedule)	X		
4	CHECK TORQUE ON ALL BOLTS (See Bolt Torque Chart in Section on General Assembly Set-up)	X (INITIAL)		X
5	INSPECT HITCH PINS FOR WEAR		X	
6	INSPECT BEDDER DISC (REPLACE AS NEEDED)		X	
7	INSPECT BEARINGS ON DISC GANGS		X	
8	OPTIONAL SCRAPER-ADJUST POSITION AGAINST DISC GANGS (REPLACE AS NEEDED)		X	
9	INSPECT RIPPER SHANKS AND TRIP MECHANISMS FOR ANY DAMAGE		X	
10	INSPECT TOOLBAR FOR ANY DAMAGE			X
11	INSPECT TIRE PRESSURE IN ALL GAUGE WHEELS.	X		

LUBRICATION POINTS

Several machine components require periodic lubrication: See the "**Maintenance Service Schedule**" portion of the manual for those periodic lubrication intervals.

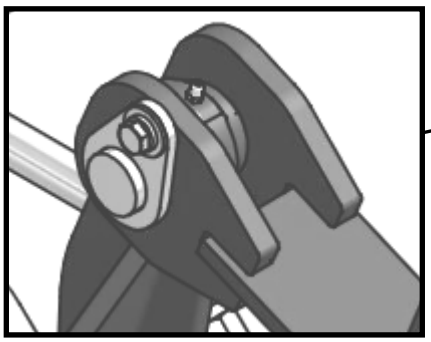
The following illustrations highlight those component areas that are fitted for lubrication. In all these areas it is important to use only a **Moly EP Grease** with a minimum service interval as described in the Maintenance Service Schedule.

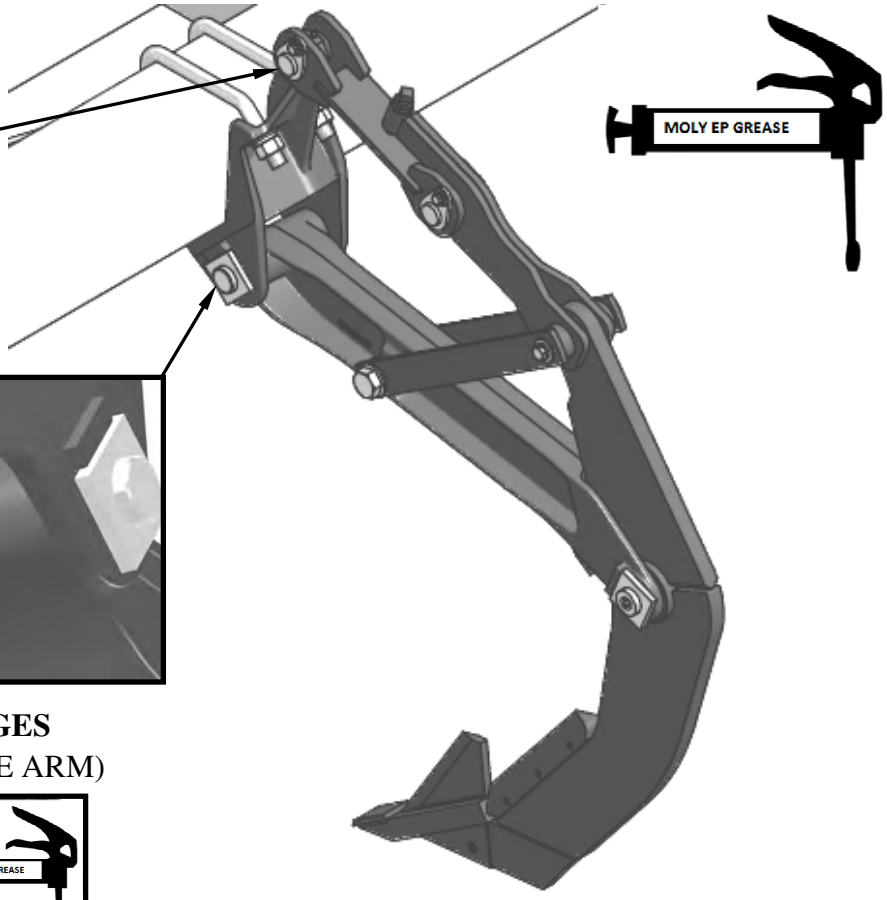
Reset On The Go Lubrication Points
(7 Per Shank)

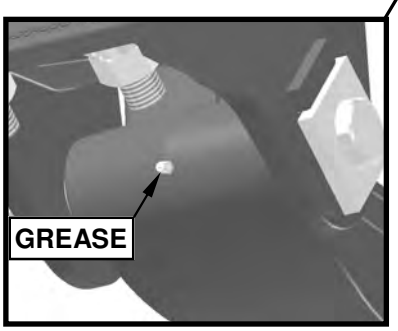


	SERVICE	EVERY HOURS	OR	EVERY TRIPS
1	RESET ON THE GO SHANKS & TOGGLE TRIP SHANKS	50		10

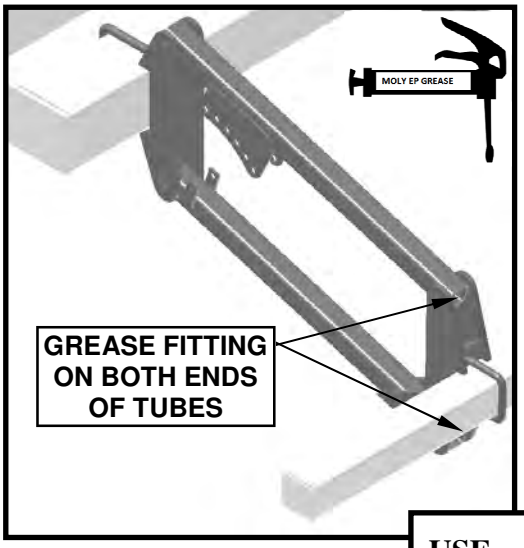
Toggle Trip Lubrication Points
(2 Per Shank)



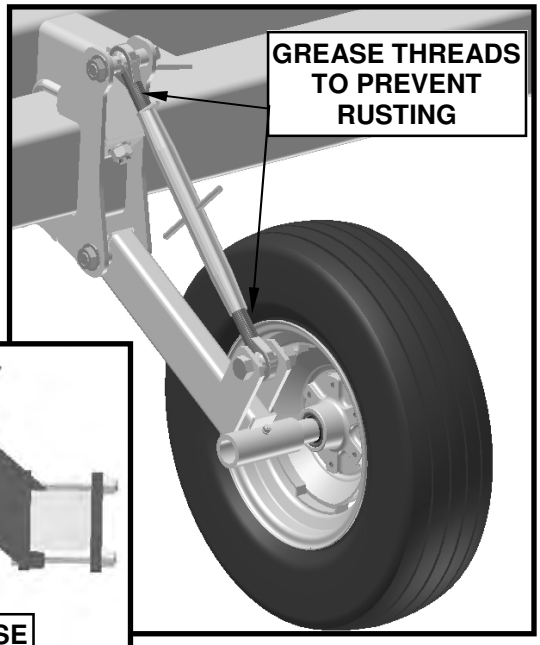




TOOL BAR LINKAGES
(4 PLACES PER LINKAGE ARM)



GAUGE WHEEL LUBRICATION

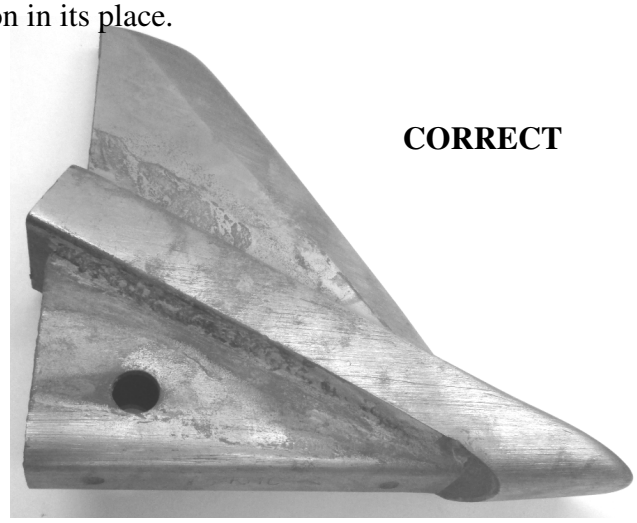


BEDDER GAUGE WHEEL LUBRICATION POINTS
(1 PER WHEEL)

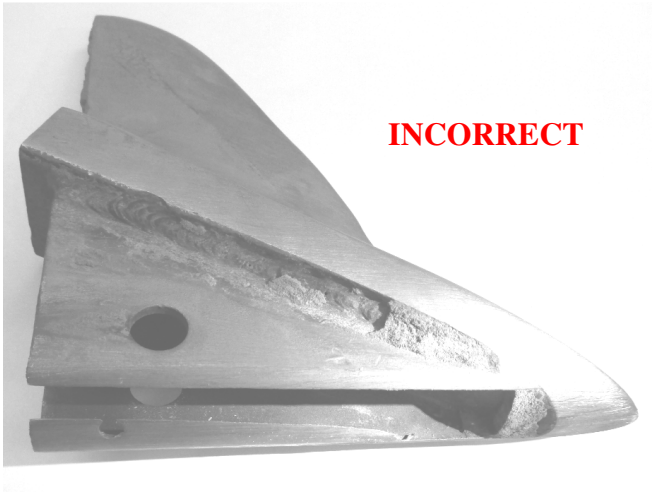
WEAR ITEM REPLACEMENT

Shank Points

Shank points should be checked for wear daily and more frequently in severe conditions. The photo on the left shows a point that is worn and ready to be replaced. If the point is left on the machine past this point the boot, or portion on the point that holds it onto the shank, will wear quickly. Once the bottom of the boot is gone, the foot base of the shank will be damaged. Repairing the shank foot base is costly and time consuming. The photo on the right shows a point that has been ran too long and the boot has been worn through. The foot of the shank this point was on had to be cut off and a new one welded on in its place.



CORRECT



INCORRECT

Replacing Ripper Points

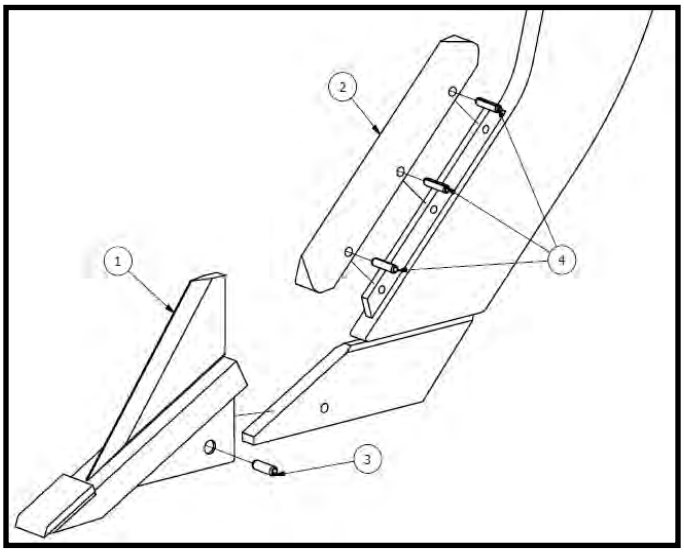
1) Remove 3/8 x 1-1/4 roll pin holding the point on the foot of the shank.
2) Remove worn point from the shank foot. (May need a hammer)
3) Slide the new point on the shank foot until the holes in the foot and boot align.
4) Drive new 3/8 x 1-1/4 roll pin through the hole in the boot and into the hole in the shank foot until it is flush with the side of the boot.

Wear Shins

Wear shins are used to minimize shank wear and should be checked for wear daily and more frequently in severe conditions. The wear shin should be replaced when there is noticeable taper in the area where the roll pins hold the wear shin to the shank. Since wear shins usually wear faster on the end closer to the point, wear shins can be rotated top to bottom for extended life.

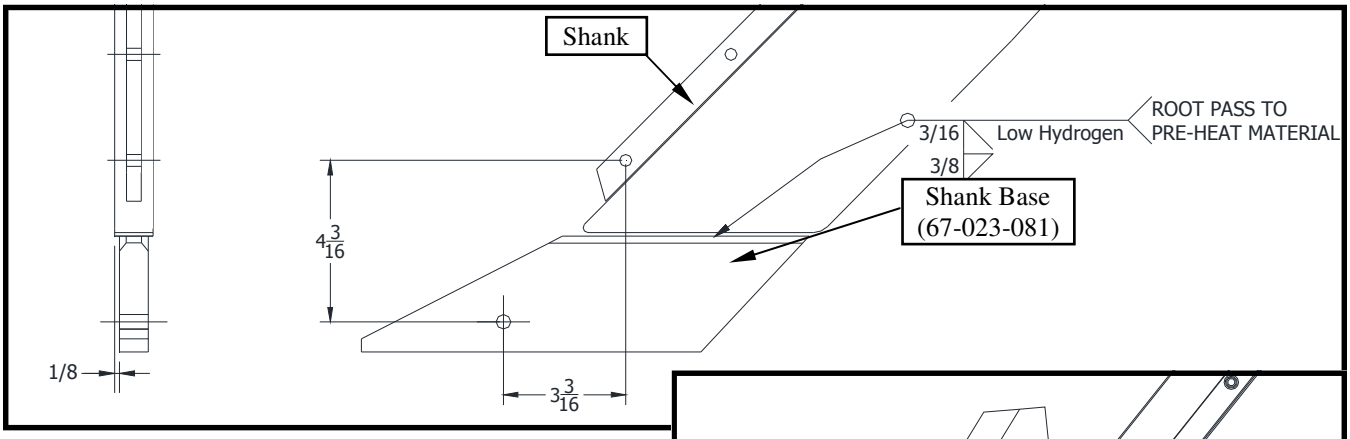
Replacing Wear Shins

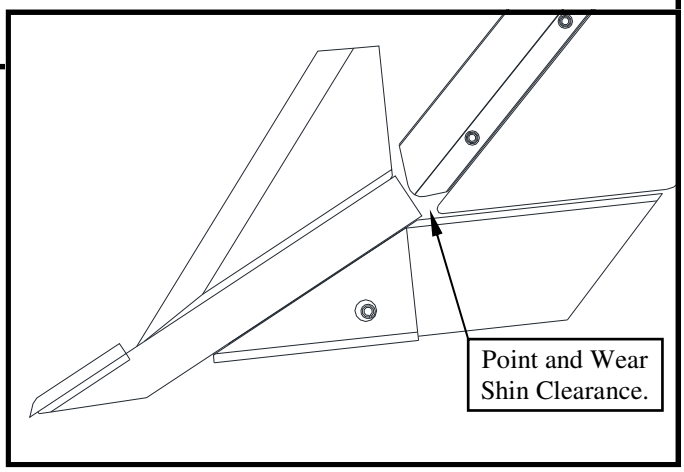
1) Remove (3) 5/16 x 1-3/8 roll pins that hold the wear shin on the shank.
2) Remove worn wear shin from front of shank.
3) Place new wear shin over the rib on the front of shank and align holes.
4) Drive (3) 5/16 x 1-3/8 roll pins through the



ITEM	DESCRIPTION	PART NO.	QTY
1	SPLITTER POINT, 1 3/4 RS W/CAP	16-080-282	1
2	WEAR SHIN, 12”	17-057-004	1
3	ROLL PIN, 3/8 X 1 1/4 PLT	16-050-020	1
4	ROLL PIN, 5/16 X 1 3/8	17-050-022	3

Shank Base Replacement





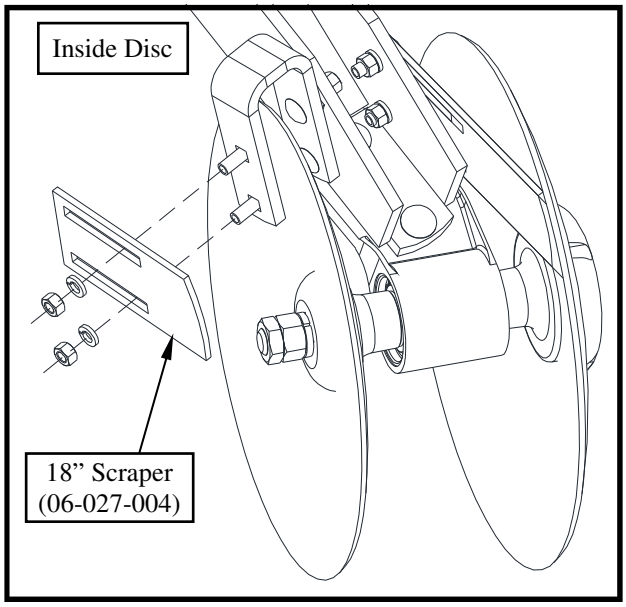
The Shank Base on occasion may need to be replaced when a ripper point has worn through and has worn the shank base down. This needs to be replaced in order to keep the ripper point from wearing out prematurely because it does not have a proper fit.

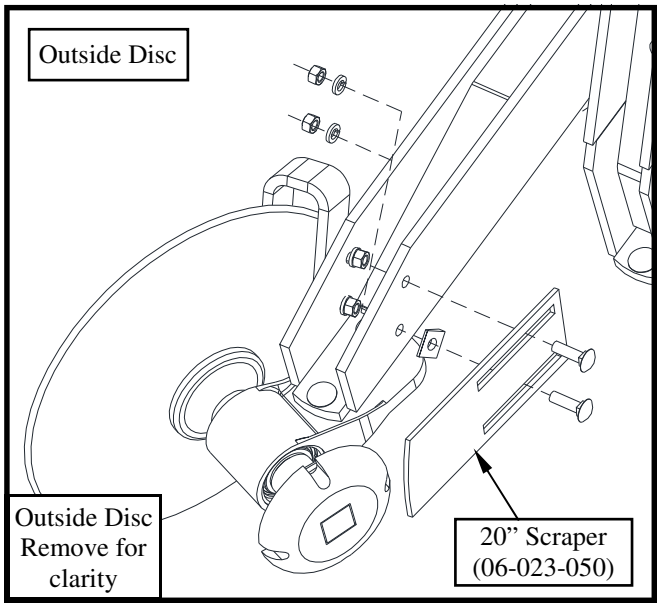
Torch off old shank base from the bottom of the shank and grind flush. Use a new shank base (67-023-081) locating and centering and tacking bottom of shank with dimensioning above.

Now assemble Point and Wear Shin onto the shank to check for clearance between the point and wear shin. If the clearance is sufficient weld shank base into place according to welding instructions above.

Disc Scraper replacement

Remove the 1/2" Carriage Bolts, 1/2" Lockwashers, and 1/2" Hexnuts which bolt the scraper to the Disc Mounting Brackets. Replace a new Disc Scrapers, 18" (06-027-004) on the inside disc and a 20" (06-023-050) on the outside disc. Refer to diagrams below. Adjust scraper so disc has clearance when rotated.





TIRE INFLATION CHART

It is important that the inflation of all tires be set properly for maximum safety and performance. Use the following guide to adjust the inflation pressure in the tires to match the application of the machine.

COLD INFLATION PRESSURE VALUES IN PSI

TIRE SIZE	COLD INFLATION PRESSURE
7.60 X 15SL (8-PLY) (Toolbar Gauge Wheels)	**52 psi** (Cold)
20.5 X 8.00-10 (4 PLY) (8 X 10 Press Wheels)	**35 psi** (Cold)

STORAGE:

The purchase of your Ripper Bedder is a substantial investment to your farming needs. For this reason, your Ripper Bedder should be cleaned and stored in a manner that will ensure the life and value of your investment for years to come.

KMC recommends after each season of use to:

- **Pressure wash and clean the machine thoroughly to remove all dirt and moisture retaining materials.**
- **Repaint worn and scratched parts if possible.**
- **Grease all bearings, bushings, and pivot joints that are fitted for relube. Also, fully grease the turnbuckle threads to prevent these areas from rusting and pitting.**
- **Store under a shelter in a location away from all weather elements if possible.**

The following is a list of serial numbers issued to our machines at the beginning of each year. To determine when a unit was made, find the range within which the particular serial number falls. It would have been produced between January 1 to December 31 of that year.

YEAR	SERIAL NUMBERS
2013	85093-86418
2014	86419-87790
2015	87791-89096
2016	89097-

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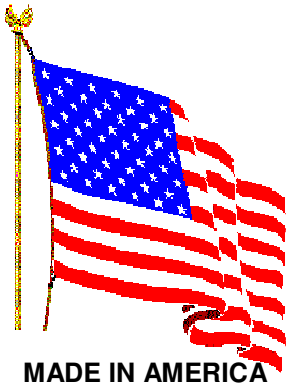

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