

RMB 180/165 Rear Mounted Boom

Parts Manual



Alamo Industrial®
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¡ATENCIÓN!

LEA EL INSTRUCTIVO

Si No Lee Ingles, Pida Ayuda a Alguien
Que Si Lo Lea Para Que le Traduzca las
Medidas de Seguridad.



An Operator's Manual was shipped with the equipment in the Manual Canister. This Operator's Manual is an integral part of the safe operation of this machine and must be maintained with the unit at all times. READ, UNDERSTAND, and FOLLOW the Safety and Operation Instructions contained in this manual before operating the equipment. If the Operator's Manual is not with the equipment, contact your dealer or Alamo Industrial (800-356-6286) to obtain a Free copy before operating the equipment.

Introduction

Health and Safety Statement

The health and safety of employees and guests of Alamo Industrial is of primary concern for Alamo Industrial. Alamo Industrial strives to comply with OSHA regulations and our own health, environmental and safety policies. Alamo Industrial is committed to the goal of providing an accident free work place by providing a safe and productive work environment. All employees and guests are required to comply with all Alamo Industrial safety rules in all of their activities. Employees and guests are required to wear Personal Protective Equipment, which includes safety glasses with side shields, hearing protection, safety shoes with metatarsal guards, while in the Alamo Industrial manufacturing facility.

Personnel safety requires each person to be aware of potential hazards associated with the work, paying attention, following instructions, not taking risks, and watching out for other workers. The help and support of each guest is essential to the success of our safety objectives. Each of us is responsible for our own safety and for the safety of fellow workers and guests. Together we can learn and work safely and enjoy our experiences at Alamo Industrial.

Contact Information

Contact Information

To help you assemble your new mower and mount it to your tractor, we provide you with drawings, instructions and general information. When needed, you can get information or clarification from Alamo Industrial Customer Service over the phone.

How to Contact Alamo Industrial To Place Orders

1. Visit www.alamo-industrial.com
2. Call or visit your local Alamo Industrial dealer (Dealer listing can be found on www.alamo-industrial.com)
3. Call Alamo Industrial Customer Support to speak with your assigned Account Manager*
4. Fax or e-mail your orders to your assigned Customer Support Account Manager*

*Orders placed over the phone, fax, or e-mail are subject to a 5% loss of contracted discount

For parts identification please visit <http://www.alamo-industrial.com/ProductManuals>

Customer Support Contact Information

Phone Toll Free 1-800-356-6286

Fax 1-800-322-5041

Operational Hours

8 AM to 5 PM CST.

Monday Through Friday

parts@alamo-industrial.com

CONTENTS

Section 10: Safety	6
General Safety Instructions and Practices	7
Operator Safety	8
Hazards	11
Decal Location	20
Section 20 - Parts	31
STABILIZER ASSEMBLY	33
16' BOOM ASSEMBLY	35
18' BOOM ASSEMBLY	40
MAIN FRAME ASSEMBLY	47
HYDRAULIC TANK ASSEMBLY	51
HYDRAULIC TANK ASSEMBLY, MANUAL	53
MANUAL VALVE ASSEMBLY	57
VALVE, BRAKE MANIFOLD P/N 02999694	58
LEVER MOUNT ASSEMBLY	61
CABLES AND LEVERS KIT P/N 32120316	62
JOYSTICK MOUNT ASSEMBLY	63
JOYSTICK MOUNT KIT P/N 32120420	64



WIRE HARNESS ASSEMBLY	65
PROXIMITY SENSOR/ALARM KIT, P/N 32120294	66
FLAIL ASSEMBLY,RMB F91,KVNS P/N 02999801	67
48" FLAIL SUB ASSEMBLY P/N 32120259	70
ASY, CUTTERSHAFT, KNIFE F91 P/N 02999800	72
ASY, FLAIL, RMB MD KNVS P/N 32120414	74
ASY, SUB FLAIL 48" P/N 32120415	76
ASY, CUTTERSHAFT KNIFE MD P/N 32120416	78
ASY, 60 INCH ROTARY, P/N 32120530	80
ASY,48" ROTARY W/ FLAPS-PA47/48 P/N 32121139	83
SUB ASY, CUTTERHEAD, PA92 P/N 32121140	85
48" ROTARY CUTTER DEFLECTOR FLAP ASSEMBLY	89
48" ROTARY CUTTER MOTOR ASSY P/N 02964305	91



SECTION 10

SAFETY



SAFETY

GENERAL SAFETY INSTRUCTIONS AND PRACTICES

A careful operator is the best operator. Safety is of primary importance to the manufacturer and should be to the owner/operator. Most accidents can be avoided by being aware of your equipment, your surroundings, and observing certain precautions. The first section of this manual includes a list of Safety Messages that, if followed, will help protect the operator and bystanders from injury or death. Read and understand these Safety Messages before assembling, operating or servicing this Implement. This equipment should only be operated by those persons who have read the manual, who are responsible and trained, and who know how to do so responsibly.



The Safety Alert Symbol combined with a Signal Word, as seen below, is used throughout this manual and on decals which are attached to the equipment. The Safety Alert Symbol means: "ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!" The Symbol and Signal Word are intended to warn the owner/operator of impending hazards and the degree of possible injury faced when operating this equipment.

Practice all usual and customary safe working precautions and above all--- remember safety is up to YOU. Only YOU can prevent serious injury or death from unsafe practices.



Indicates an imminently hazardous situation that, if not avoided, WILL result in DEATH OR VERY SERIOUS INJURY.



Indicates an imminently hazardous situation that, if not avoided, COULD result in DEATH OR SERIOUS INJURY.



Indicates an imminently hazardous situation that, if not avoided, MAY result in MINOR INJURY.

Important

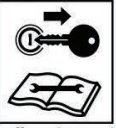
Identifies special instructions or procedures that, if not strictly observed, could result in damage to, or destruction of the machine, attachments or the environment.

NOTE: Identifies points of particular interest for more efficient and convenient operation or repair.

READ, UNDERSTAND, and FOLLOW the following Safety Messages. Serious injury or death may occur unless care is taken to follow the warnings and instructions stated in this Manual and in the Safety Messages on the implement. Always follow the instruction in this manual and use good common sense to avoid hazards.



Pictographs are used throughout this manual to help bring your visual attention to safety issues.

SAFETY HAZARD	SAFETY AVOIDANCE	SAFETY PREVENTION
Pictograph surrounded by a triangle indicates a Safety Hazard that must be avoided. Example:  Equipment contacting overhead electrical lines	Pictograph by itself or inside a box indicates an avoidance procedure that should be followed to prevent injuries. Example:  Always shut off engine and remove key before working on equipment.	A circle with a slash through it indicates an action that is prohibited. Example:  No Smoking

NOTE: If you want a translation of this safety section in one of the following Languages, please contact: Translations at 1502 E. Walnut Street Seguin, TX 78155; Fax: (830) 372-9529; Safety Section Translations are available in Spanish, Portuguese, French, German, Russian. PN GS01

SAFETY

Operator Safety

				
Read and understand Operator's Manual	Always wear Safety Glasses	Wear Hard Hat Safety Shoes	Never use Drugs or Alcohol when operating equipment	Wear Safety Vest when operating on or near roads

WARNING

TO AVOID SERIOUS INJURY OR DEATH DO THE FOLLOWING:

- **READ, UNDERSTAND** and **FOLLOW** Operator's Manual instructions, Warnings and Safety Messages.
- **WEAR SAFETY GLASSES**, safety shoes, hard hat, hearing protection and gloves when operating or repairing equipment
- **WEAR** appropriate breathing respirator when operating in dusty conditions to avoid respiratory diseases.
- **DO NOT WEAR** loose clothing or jewelry to avoid rotating parts entanglement injury.
- **DO NOT USE DRUGS** or **ALCOHOL** before or while operating equipment.
- **DO NOT ALLOW** anyone to operate equipment under the influence of drug or alcohol.
- **CONSULT** medical professional for medication impairment side effects.
- **STAY CLEAR** of hot surfaces such as Mufflers, hydraulic pumps, valves and tanks.
- **STAY ALERT**, prolonged operation can cause fatigue, **STOP** and **REST**.

GENERAL OPERATING SAFETY

VISIBILITY CONDITIONS WHEN MOWING:

- **OPERATE IN DAYLIGHT** or with lights that gives at least 100 yards clear visibility.
- **BE ABLE TO SEE** and identify passersby, steep slopes, ditches, drop-offs, overhead obstructions, power lines, debris and foreign objects.
- Avoid backing up while mowing, vision may be limited, severe damage or injury can occur.
- **DO NOT** run tractor in enclosed building without adequate exhaust ventilation.

GROUND SPEED WHEN MOWING:

- **NORMAL SPEED** range is between 1 to 2 mph(1-3 kph).
- **ADJUST MOWING SPEED** for terrain conditions and grass type, density and cut height.
- **REDUCE MOWING SPEED** when near steep slopes, ditches, drop-offs, overhead obstructions, power lines and to avoid debris and foreign objects.

TRACTOR and MOWER

- **DO NOT** operate the tractor or mower unless the equipment is maintained and operating properly.
- **DISCONTINUE OPERATION** if tractor or mower electrical and hydraulic controls do no function properly.
- **DISCONTINUE OPERATION** of the tractor if the braking or steering systems do not function properly.
- **DO NOT** operate the tractor or mower if there are any hydraulic leaks.

INSECT INFESTATION

- **DO NOT** operate in areas where bees or insects may attack unless you **WEAR PROTECTIVE CLOTHING** or use enclosed tractor cab.

PTO SPEED:

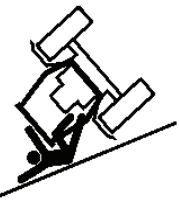
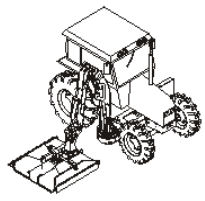
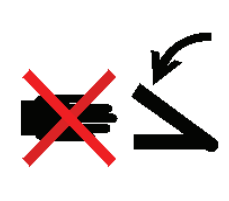
- **DO NOT EXCEED IMPLEMENT RATED PTO SPEED**
- **AVOID** exceeding rated PTO speeds that may result in broken drivelines or blade failures.

SAFETY SIGNS:

- **REPLACE** missing, damaged or unreadable safety signs immediately. **PN OSBM-01**

SAFETY

CRUSHING HAZARDS

				
Crushing injury from roll over	Use Cab Tractor With Boom Mowers	Always wear seatbelt	Pinch Point Hazard Keep Hands and body parts clear of pinch points	Crushing injury from boom or mower head falling



TO AVOID SERIOUS INJURY OR DEATH FROM FALLING OFF TRACTOR, EQUIPMENT RUN OVER, ROLLOVER AND CRUSHING BY FALLING WING OR IMPLEMENT:

- **USE ROPS** and **SEAT BELT** equipped tractors for mowing operations.
- **KEEP ROPS** lock in up position.
- **ALWAYS BUCKLE UP** seat belt when operating tractor and equipment.
- **ONLY OPERATE** tractor and equipment while seated in tractor seat.

WHEN RAISING BOOM MOWER:

- Raise or lower **ONLY WHILE SEATED** in tractor seat with seat belt buckled.
- **KEEP BYSTANDERS CLEAR** of area **TO AVOID** crushing.
- **KEEP** sufficient clearance around implement and wings **TO AVOID** contacting buildings or overhead power lines.

LIFTED Equipment can fall from mechanical or hydraulic failure or inadvertent Control Lever movement.



TO AVOID EQUIPMENT FALLING while working near or under lifted boom, components and Mower Head:

- **SECURELY SUPPORT** or **block up** raised equipment, wings and components.
- **BLOCK UP** and **securely support** equipment before putting hands, feet or body under raised equipment or lifted components.
- **KEEP BYSTANDERS CLEAR** of raised boom or mower head until securely blocked up.

WHEN PARKING Implement and Tractor:

- **LOWER** Mower Head to the ground or **BLOCK** lifted parts before leaving equipment.
- **NEVER** leave implement unattended in a raised position.

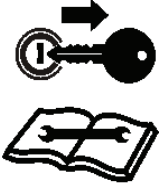
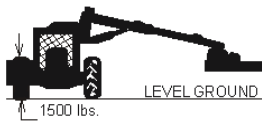


TO AVOID CHILDREN FALLING OFF OR BEING CRUSHED BY EQUIPMENT:

- **NEVER ALLOW** children to play on or around Tractor or Implement.
- **DO NOT** operate without operator CAB or OVERHEAD protection. Falling limbs and debris can cause injuries. *PN CHBM-01*

SAFETY

CONNECTING OR DISCONNECTING IMPLEMENT SAFETY

			
Stop Tractor Remove Key Read Manual	Crushing Hazard Do Not get under boom when connecting mower head to boom	Stability Hazard Ensure 20% of tractor weight is on front wheels	Stability Hazard Ensure 1500lbs down force on left tire with boom extended



TO AVOID SERIOUS INJURY OR DEATH FROM BEING CRUSHED BY TRACTOR OR IMPLEMENT:

WHEN connecting mower head to the boom:

- **KEEP BYSTANDERS AWAY** from tractor and mower.
- Ensure there is enough room to lift and swing the boom with out hitting objects

BEFORE connecting and disconnecting the mower head or boom:

- **STOP TRACTOR ENGINE**, place transmission into park, engage parking brake and remove key.

WHEN connecting and disconnecting the mower head or boom:

- **DO NOT** crawl or walk under raised mower head or boom. *(Refer to Instructions in Operation Section)*

WHEN CONNECTING IMPLEMENT DRIVELINE:(If equipped)

TO AVOID implement driveline coming loose during operation:

- **LUBRICATE** yoke spring locking collar to ensure it freely slides on PTO shaft.
- **SECURELY** seat yoke locking balls in PTO shaft groove.
- **PUSH** and **PULL DRIVELINE** on both the tractor and implement **PTO SHAFTS** to ensure it is **SECURELY ATTACHED**.

TO AVOID broken driveline during operations:

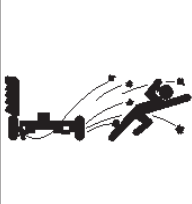
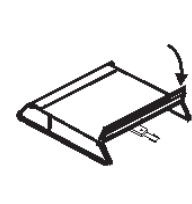
- **CHECK** driveline for proper length between PTO shaft and implement gearbox shaft. *(Refer to Instructions in Operation Section)*
- Drivelines too short can pull apart or disengage.
- Drivelines too long can bottom out.
- Bottoming driveline telescoping assembly will stop sliding and become solid.
- Driveline bottoming can push through support bearings and break off PTO shaft.

CONTACT DEALER if implement driveline does not match Tractor PTO shaft:

- **DO NOT USE PTO ADAPTER.**
Using a PTO adapter can cause:
- Excessive vibration, thrown objects, blade and implement failures by doubling operating speed.
- Increased working length exposing unshielded driveline areas and entanglement hazards. *PN CDBM-01*

SAFETY

THROWN OBJECTS HAZARDS

				
Mower Thrown Objects Hazard	Raised Mower Thrown Objects	Keep mower door closed when traffic comes within 300 feet	Inspect Area remove foreign objects	Do not let blades contact solid objects



ROTARY MOWERS CAN THROW OBJECTS 300 FEET OR MORE UNDER ADVERSE CONDITIONS.

TO AVOID SERIOUS INJURY OR DEATH TO OPERATOR OR BYSTANDERS FROM THROWN OBJECTS:

- KEEP bystanders 300 feet away

STOP MOWING IF PASSERSBY ARE WITHIN 300 FEET UNLESS:

- **ALL THROWN OBJECT SHIELDING** including, Front and Rear Deflectors, Chains Guards, Steel Guards, Bands, Side Skirts and Skid Shoes in place and in good condition when mowing.
- Mower is close and parallel to ground without exposing blades.
- **MOWING AREA** has been inspected and foreign materials and debris have been removed.
- **DO NOT** shred or mow loose or previously cut material if **BYSTANDERS** are within 300 feet.
- **PASSERSBY** are inside enclosed vehicle.

INSPECT AREA FOR POTENTIAL THROWN OBJECTS BEFORE MOWING:

- **REMOVE** debris, rocks, wire, cable, metal objects and other foreign material from area. Wire, cable, rope, chains and metal objects can be thrown or swing outside deck with great velocity:
 1. **MARK** objects that cannot be removed.
 2. **AVOID** these objects when mowing.

HIGH GRASS and WEED AREA INSPECTION:

- **INSPECT** for and **REMOVE** any hidden large debris.
- **MOW** at Intermediate height
- **INSPECT** and remove remaining debris
- **MOW** at final height.

MOWER THROWN OBJECT SHIELDING:

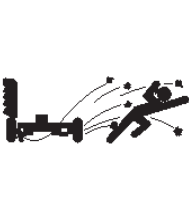
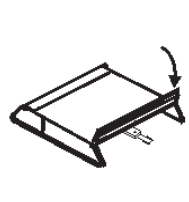
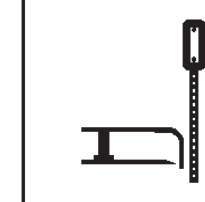
- **KEEP** all thrown object shielding including, Front and Rear Deflectors, Chains Guards, Steel Guards, Bands, Side Skirts and Skid Shoes in place and in good condition when mowing.
- **DO NOT OPERATE** with any thrown object shielding missing, damaged or removed.

RIGHT OF WAY (Highway) MOWING

- Stop mowing if any bystander comes within 300 feet of the mower.
- No shielding is 100% effective in preventing thrown objects. To Reduce Possibility of Injury:
 1. **MAINTAIN MOWER SHIELDING**, side skirts, skid shoes, and blades in good operational condition,
 2. **RAISE CUTTING HEIGHT** to **6 INCHES** minimum,
 3. **INSPECT AREA** thoroughly before mowing to **REMOVE** potential **THROWN OBJECT HAZARDS**,
 4. **NEVER ALLOW BLADES** to **CONTACT SOLID OBJECTS** like wire, rocks, post, curbs, guardrails, or ground while mowing. *PN TOBM-01*

SAFETY

THROWN OBJECTS HAZARDS (Continued)

				
Mower Thrown Objects Hazard	Raised Mower Thrown Objects	Keep mower door closed when traffic comes within 300 feet	Inspect Area remove foreign objects	Do not let blades contact solid objects

MOWER OPERATION:

- **DO NOT** exceed mower's rated Cutting Capacity or cut non-vegetative material.
- **USE ENCLOSED TRACTOR CABS** when two or more mowers are operating in mowing area.
- Do Not mow in areas where bees or insects may attack unless you **WEAR PROTECTIVE CLOTHING** or use enclosed tractor cab.
- **ADJUST** mower head close and parallel to ground without exposing blades.
- **ADJUST** cutting **HEIGHT** to **AVOID BLADE CONTACT** with solid objects like wire, rocks, posts, curbs, guard rails and fixed obstructions.
- **CLOSE** Mower door and stop operating if bystanders come within 300 feet of the mower.
- Keep mower door closed when cutting close to the ground.
- Open door only to cut large brush or tree limbs. Close door immediately after cutting limb.
- **DO NOT** push mower head down onto material to cut it, use the front tips of the mower blades to cut into the material.
- **DO NOT** operate mower when mower is in transport position.
- **STOP MOWING** immediately if blades strike heavy objects, fixed structures, metal guard rails and concrete structures:
 1. **BLADES CAN FAIL** from impact and objects can be thrown with great velocity.
 2. **INSPECT** and **REPLACE** any damaged blades.
 3. **CHECK** blade carrier and **REPLACE** if damaged.
- **DO NOT** mow in standing water **TO AVOID** possible **BLADE FAILURE**.
- **AVOID MOWING** in reverse:
 1. **STOP PTO** and back up mower.
 2. **LOWER** mower, engage **PTO** and mow forward.
- **DISENGAGE** mower head and wait until **BLADES** stop rotating before raising mower to transport position.
- **DO NOT ENGAGE PTO** with mower in transport position.
- **STOP** mowing when **EXCESSIVE VIBRATION** occurs:
 1. **STOP PTO** and tractor **ENGINE**.
 2. **INSPECT** mower for vibration source.
 3. **REPLACE** any damage parts and bent or damaged **BLADES**. PN TOBM-02

SAFETY

RUN OVER HAZARDS

		
Operator run over hazard	Rider fall off run over hazard	Bystander run over hazard



TO AVOID SERIOUS INJURY OR DEATH FROM FALLING OFF TRACTOR OR EQUIPMENT RUN OVER:

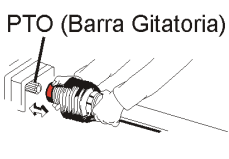
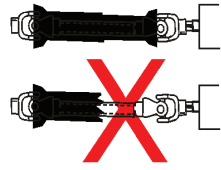
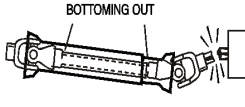
- **USE ROPS** and **SEAT BELT** equipped tractors for mowing operations.
- **KEEP ROPS** locked in **UP** position.
- **ONLY** start tractor while seated in tractor seat.
- **ALWAYS BUCKLE UP** seat belt when operating tractor and equipment.
- **ONLY OPERATE** tractor and equipment while seated in tractor seat.
- **NEVER ALLOW RIDERS** on tractor or implement.
- When not mowing stow Boom and Mower head in transport location before moving.

WHEN MOUNTING AND DISMOUNTING TRACTOR:

- **ONLY** mount or dismount when tractor and moving parts are stopped.
- **STOP ENGINE AND PTO**, engage parking brake, lower implement, allow all moving parts to stop and remove key before dismounting from tractor. *PN ROBM-01*

SAFETY

PTO ENTANGLEMENT HAZARDS

			
Entanglement hazard Do Not approach or touch a rotating PTO driveshaft	Make sure PTO shaft is securely attached Do Not Use PTO Adapter	DO NOT Operate if PTO shields are damaged or missing	Make sure PTO shafts are proper length



KEEP AWAY FROM ROTATING DRIVELINES AND ELEMENTS TO AVOID SERIOUS INJURY OR DEATH:

STAY AWAY and **KEEP** hands, feet and body **AWAY** from rotating blades, drivelines and parts until all moving elements have stopped.

- **STOP, LOOK** and **LISTEN** before approaching the mower to make sure all rotating motion has stopped.
- **ROTATING COMPONENTS CONTINUE** to **ROTATE** after the PTO is shut off.

PTO SHIELDING:

TO AVOID SERIOUS INJURY OR DEATH FROM ENTANGLEMENT WHEN OPERATING IMPLEMENT:

- **KEEP** PTO shields, integral driveline shields and input shields installed
- **DO NOT OPERATE** mower without shields and guards in place or missing
- **REPAIR OR REPLACE** if damage, broken or missing
- **ALWAYS REPLACE GUARDS** that have been removed for service or maintenance.
- Do Not use PTO or PTO guard as a step.

TO AVOID broken driveline during operations:

- **CHECK** driveline for proper length between PTO shaft and implement gearbox shaft. (*Refer to Instructions in Operation Section*)
- Drivelines too short can pull apart or disengage.
- Drivelines too long can bottom out.
Bottoming driveline telescoping assembly will stop sliding and become solid.
- Driveline bottoming can push through support bearings and break off PTO shaft
- **AVOID** sharp turns or lift mower to heights to cause driveline "knocking".
- Lubricate driveshaft-telescoping components weekly.

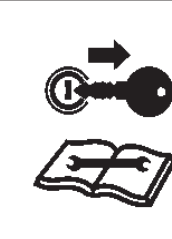
CONTACT DEALER if implement driveline does not match Tractor PTO shaft:

- **DO NOT USE PTO ADAPTER.**

Using a PTO adapter can cause excessive vibration, thrown objects, blade and implement failures by doubling operating speed. Increased working length exposing unshielded driveline areas. **PN PE01**

SAFETY

MOWER BLADE CONTACT HAZARDS

					
Do not put fingers underneath mower	Do not put hands underneath Flail Mower	Do not put foot underneath mower	Do not put foot underneath Flail Mower	Shearing Hazard from Sickle blades	Stop Tractor Remove Key Read Manual



KEEP AWAY FROM ROTATING BLADES TO AVOID SERIOUS INJURY OR DEATH FROM BLADE CONTACT:

- **STAY AWAY** and **KEEP HANDS, FEET** and **BODY AWAY** from rotating blades, drivelines and parts until all moving elements have stopped.
- **DO NOT** put hands or feet under mower decks
- **STOP** rotating **BLADES** disengage mower switch and PTO and wait for blade to stop rotating before raising mower head.
- **DO NOT** approach Sickle Bar head until Tractor Engine has been shut off.
- **STOP LOOK** and **LISTEN** before approaching the mower to make sure all rotating motion has stopped. **PN MBBM-01**

SAFETY

HIGH PRESSURE OIL LEAK HAZARD

			
High pressure oil penetrating skin	High pressure oil eroding skin	Using cardboard to check for oil leaks	Tank contents under pressure. Allow oil to cool before slowly removing cap



TO AVOID SERIOUS INJURY OR DEATH FROM HIGH PRESSURE HYDRAULIC OIL LEAKS PENETRATING SKIN:

- **DO NOT OPERATE** equipment with oil or fuel leaks.
- **KEEP** all hydraulic hoses, lines and connections in **GOOD CONDITION** and **TIGHT** before applying system pressure.
- **RELIEVE HYDRAULIC PRESSURE** before disconnecting lines or working on the system.
- **REMOVE** and replace hose if you suspect it leaks. Have dealer test it for leaks.

HIGH PRESSURE FLUID LEAKS CAN BE INVISIBLE.

WHEN CHECKING FOR HYDRAULIC LEAKS AND WORKING AROUND HYDRAULIC SYSTEMS:

- **ALWAYS WEAR** safety glasses and impenetrable gloves.
- **USE** paper or cardboard to search for leaks.
- **DO NOT USE** hands or body parts to search for leak.
- **KEEP** hands and body **AWAY** from pin holes and nozzles ejecting hydraulic fluid.
- Hydraulic fluid may cause gangrene if not surgically removed immediately by a doctor familiar with this form of injury.

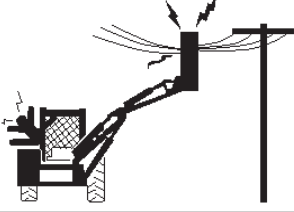
Use caution when removing Hydraulic Tank cap.

- Tank contents maybe under pressure
- Allow oil to cool before removing cap.
- Relieve oil pressure before removing cap slowly.
- Stay away from hot oil that may spray from tank.

PN HPBM-01

SAFETY

ELECTRICAL & FIRE HAZARDS

		
Mower head or Boom contacting overhead electrical lines	Strike and explosion Hazard Blades Contacting Utility or Gas Lines	Fire Hazard Do Not operate near fires. Keep debris away from hydraulic pumps and valves



TO AVOID SERIOUS INJURY OR DEATH FROM ELECTRICAL CONTACT WHEN WORKING AROUND ELECTRICAL POWER LINES, GAS LINES AND UTILITY LINES:

- **INSPECT** mowing area for overhead or underground electrical power lines, obstructions, gas lines, cables and Utility, Municipal, or other type structure.
- **KEEP** all raised wings at a 10 feet or greater distance from all power lines and overhead obstructions.
- **DO NOT** allow mower to contact with any Utility, Municipal, or type of structures and obstructions.
- **CALL 811** and 1-800-258-0808 for identify buried utility lines.

FIRE PREVENTION GUIDELINES while Operating, Servicing, and Repairing Mower and Tractor to reduce equipment and grass fire Risk:

- **EQUIP** Tractor with a **FIRE EXTINGUISHER**
- **DO NOT OPERATE** mower on a tractor equipped with under frame exhaust
- **DO NOT SMOKE** or have open flame near Mower or Tractor
- **DO NOT DRIVE** into burning debris or freshly burnt area
- **AVOID FIRE IGNITION** by not allowing mower blade to contact solid objects like metal or rock.
- **DO NOT** operate if oil is leaking. Repair oil leak and remove all accumulated oil before operating.
- **CLEAR** any grass clippings or debris buildup around mower hydraulic pumps, valves or tanks.
- **SHUT OFF ENGINE** while refueling. *PN EFBM-01*

SAFETY

TRANSPORTING HAZARDS

		
Use SMV signs and Flashing Lights	Loss of Control Stopping Hazard	Loss of Control Speeding Hazard



TO AVOID SERIOUS INJURY AND DEATH WHEN TOWING OR TRANSPORTING EQUIPMENT:

- **KEEP** transport speed **BELOW** 20 mph to maintain control of equipment.
- **REDUCE SPEED** on inclines, on turns and in poor towing conditions.
- **DO NOT TOW** with trucks or other vehicles.
- **USE** only properly sized and equipped tractor for towing equipment.
- **FOLLOW** all local traffic regulations.

TRACTOR REQUIREMENTS FOR TOWING OR TRANSPORTING IMPLEMENTS:

- **ONLY TRANSPORT** with tractor with **ROPS** in the raised position.
- **USE** properly sized and equipped tractor that exceeds implement weight by at least 20%.
- **KEEP** 20% of tractor weight on front wheels to maintain safe steering.

BEFORE TRANSPORTING OR TOWING IMPLEMENT:

TRACTOR INSPECTION:

- **CHECK** steering and braking for proper operation and in good condition.
- **CHECK SMV** sign, reflectors and warning lights for proper operation and visibility behind unit.
- **CHECK** that your driving vision is not impaired by tractor, cab, or implement while seated in tractor seat.
- **ADJUST** your operating position, mirrors, and implement transport for clear vision for traveling and traffic conditions.

PREPARE IMPLEMENT FOR TRANSPORTING OR TOWING:

- Store Boom and Mower in transport positions and engage transport locks if equipped.

DETERMINE STOPPING CHARACTERISTICS OF TRACTOR AND IMPLEMENT FOR TRANSPORTING OR TOWING:

BRAKING TESTS:

- Stopping distance with implement attached may increase
- Observe **STOPPING** distances increases with increased speeds.
- **DETERMINE** the maximum safe transport speed that does not exceed 20 mph.
- Reduce travel speed in wet or icy roads, stopping distances increase.

DETERMINE MAXIMUM TURNING SPEED BEFORE OPERATING ON ROADS OR UNEVEN GROUND:

- **TEST** equipment in slowly increasing speed in turns to determine it can be operated at higher speeds.
- **USE REDUCED** turning speeds in sharp turns to avoid equipment turning over.

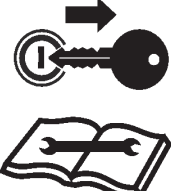
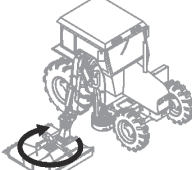
WHEN TOWING OR TRANSPORTING EQUIPMENT:

- Always **WEAR SEAT BELT** when operating or transporting mower.
- **USE** low speeds to avoid overturn with raised wings.
- **USE** low speeds and gradual steering on curves, hills, rough or uneven surfaces and on wet roads.
- **TURN ON** tractor **FLASHING WARNING LIGHTS**.
- **ALLOW** clearance for implement swing while turning.

KEEP raised boom mower 10 feet or greater distance from all power lines and overhead obstructions. *PN THBM-01*

SAFETY

HAZARDS WITH MAINTENANCE OF IMPLEMENT

				
Periodically inspect all moving parts, lubricate drivelines, and tighten all fasteners	Lower mower head to ground or block up before servicing	Stop engine remove key before conducting maintenance	Set mower head securely on the ground before servicing blades	Thrown Objects Hazard Ensure blades rotate clockwise viewed from above mower head

WARNING

AVOID SERIOUS INJURY OR DEATH FROM COMPONENT FAILURE BY KEEPING IMPLEMENT IN GOOD OPERATING CONDITION IN PERFORMING PROPER SERVICE, REPAIRS AND MAINTENANCE.

BEFORE PERFORMING SERVICE, REPAIRS AND MAINTENANCE ON THE IMPLEMENT:

- **STOP ENGINE AND PTO**, engage parking brake, lower implement, allow all moving parts to stop and remove key before dismounting from tractor.
- **PLACE** implement on ground or securely block up raised equipment. Use large blocks on soft or wet soil.
- **PUSH** and **PULL** Remote Hydraulic Cylinder lever to relieve hydraulic pressure.
- **DISCONNECT Pump solenoid valve or PTO driveline connection before servicing mower head.**
- **WEAR SAFETY GLASSES, PROTECTIVE GLOVES** and follow **SAFETY PROCEDURES** when performing service, repairs and maintenance on the implement:
- Always **WEAR** protective **GLOVES** when handling blades, knives, cutting edges or worn component with sharp edges.
- Always **WEAR GLOVES** and **SAFETY GLASSES** when servicing hot components
- **AVOID CONTACT** with hot hydraulic oil tanks, pumps, motors, valves and hose connection surfaces.
- **SECURELY** support or **BLOCK UP** raised implement, framework and lifted components before working underneath equipment.
- **FOLLOW INSTRUCTIONS** in maintenance section when replacing hydraulic cylinders to prevent component falling.
- **STOP** any implement movements and **SHUT-OFF TRACTOR** engine before doing any work procedures.
- **USE** ladder or raised stands to reach high equipment areas inaccessible from ground.
- **ENSURE** good footing by standing on solid flat surfaces when getting on implement to perform work.
- **FOLLOW** manufacturer's instructions in handling oils, solvents, cleansers, and other chemical agents.
- **DO NOT** change any factory-set hydraulic calibrations to avoid component or equipment failures.
- **DO NOT** modify or alter implement, functions or components.
- **DO NOT WELD** or repair rotating mower components. These may cause vibrations and component failures being thrown from mower.

PERFORM SERVICE, REPAIRS, LUBRICATION AND MAINTENANCE OUTLINED IN IMPLEMENT MAINTENANCE SECTION:

- **INSPECT** for loose fasteners, worn or broken parts, leaky or loose fittings, missing or broken cotter keys and washers on pins, and all moving parts for wear.
- **REPLACE** any worn or broken parts with authorized service parts.
- Inspect mower blade spindle to ensure bearing preload. If loose repair before operating.
- **LUBRICATE** unit as specified by lubrication schedule
- **NEVER** lubricate, adjust or remove material while it is running or in motion.
- **TORQUE** all bolts and nuts as specified.

BLADE INSPECTION:

- Inspect blade carrier and blades daily.
- Check blade and blade carrier **BOLT TORQUE** daily. Loose bolts can cause blade or blade bolt failures.
- **REPLACE**, bent, damage, cracked and broken blades immediately with new blades.
- **AVOID** blade failures and thrown broken blades. **DO NOT** straighten, weld, or weld hard-facing blades.

SAFETY SHIELDS, GUARDS AND SAFETY DEVICES INSPECTION:

- **KEEP** all Deflectors, Chain Guards, Steel Guards, Gearbox Shields, and PTO integral shields, Bands, Side Skirts and Skid Shoes in place and in good condition.
- **REPLACE** any missing, broken or worn safety shields, guards and safety devices.
- **PROPOSITION 65** - Engine Exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.
- Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the state of California to cause cancer, birth defects or other reproductive harm. **PN HMBM-01**

SAFETY

PARTS INFORMATION

PARTS INFORMATION

Alamo Industrial mowers use balanced and matched system components for blade carriers, blades, cuttershafts, knives, knife hangers, rollers, drivetrain components, and bearings. These parts are made and tested to Alamo Industrial specifications. Non-genuine "will fit" parts do not consistently meet these specifications. The use of "will fit" parts may reduce mower performance, void mower warranties, and present a safety hazard. Use genuine Alamo Industrial mower parts for economy and safety. (SPAM-1)

SEE YOUR ALAMO DEALER

Operator's & Parts Manuals



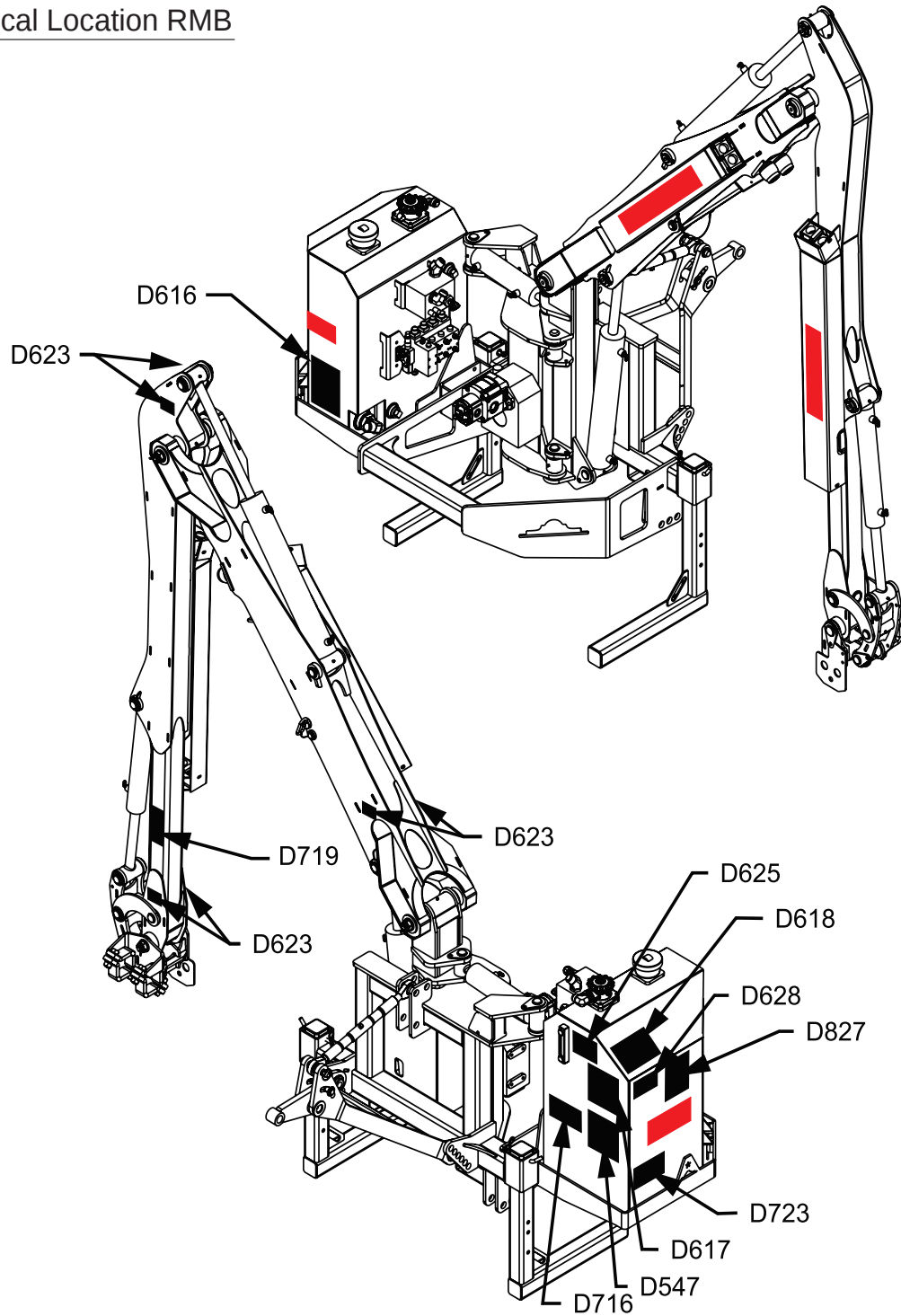
www.algqr.com/apm

Decal Location

NOTE: Alamo Industrial supplies safety decals on this product to promote safe operation. Damage to the decals may occur while in shipping, use, or reconditioning. Alamo Industrial cares about the safety of its customers, operators, and bystanders, and will replace the safety decals on this product in the field, free of charge (Some shipping and handling charges may apply). Contact your Alamo Industrial dealer to order replacement decals.

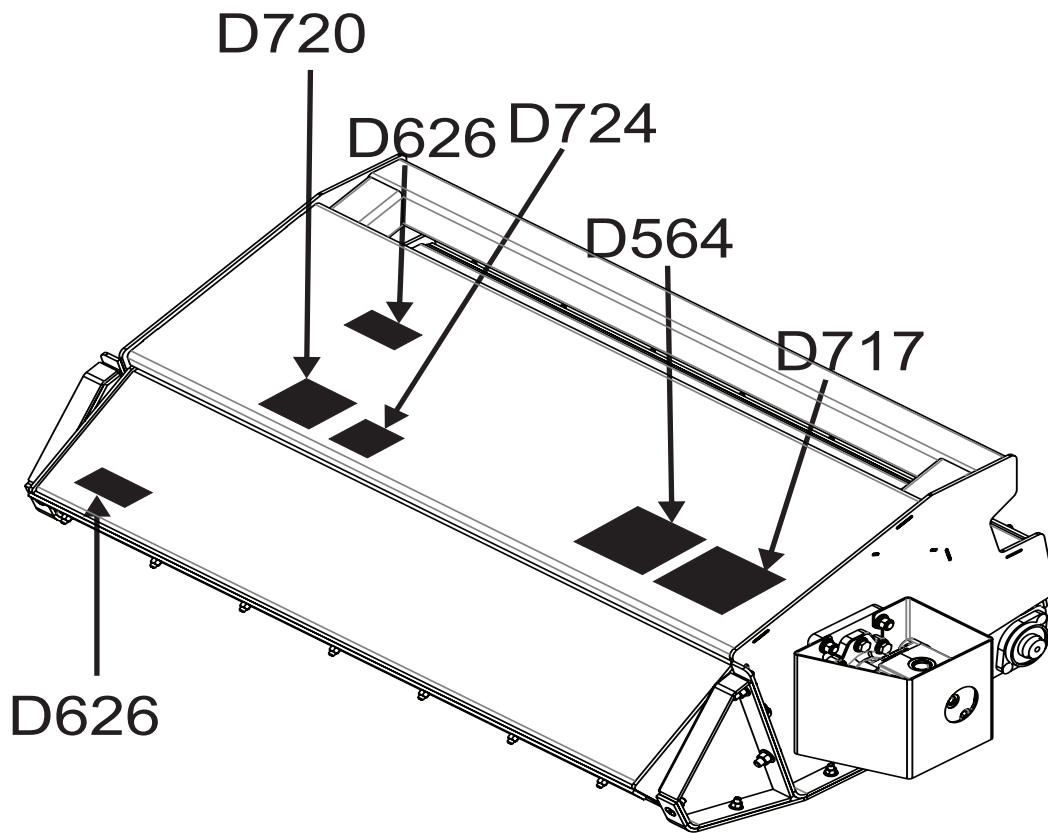
SAFETY

Decal Location RMB



SAFETY

Decal Location Flail



SAFETY

IMPORTANT

TO AVOID ELECTRICAL EQUIPMENT DAMAGE:

- DISCONNECT computer modules BEFORE welding on any part of unit.
- DISCONNECT tractor battery BEFORE welding on any part of unit.

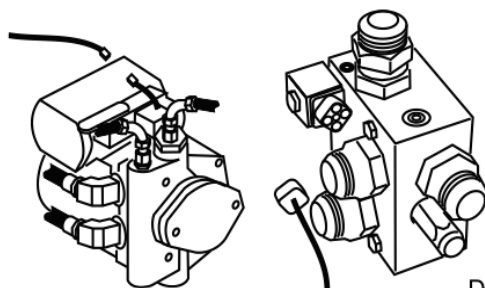
D627



⚠ WARNING

TO AVOID SERIOUS INJURY OR DEATH FROM INADVERTENT MOWER HEAD START UP:

- Disconnect the hydraulic solenoid BEFORE servicing the tractor or mower.



D637

IMPORTANT

Over speeding the engine will D624
overheat and rapidly decrease the life
of hydraulic components.

To prevent premature hydraulic component failure:

- DO NOT overspeed engine.
- Operate tractor at 540 PTO speed.

SAFETY

⚠ DANGER

THROWN OBJECT HAZARD

TO AVOID SERIOUS INJURY OR DEATH:
DO NOT OPERATE if Thrown Object Shielding is damaged or missing.

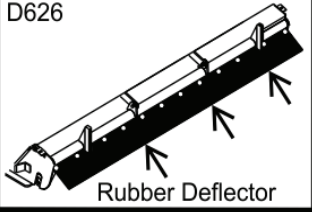
- Maintain Rubber Deflectors in good condition.
- Inspect Rubber Deflectors frequently.

MAINTAIN Thrown Object Shielding

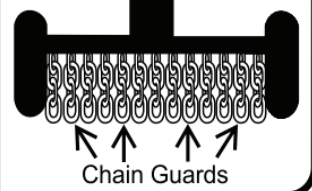
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D626



Rubber Deflector



Chain Guards

⚠ WARNING

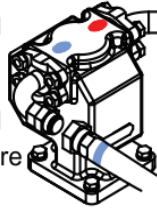
TO AVOID SERIOUS INJURY AND DEATH FROM THROWN OBJECTS:

• MAKE CERTAIN blades rotate the correct direction.

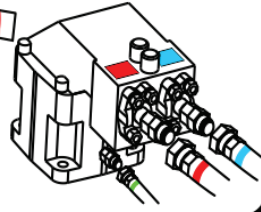
BLADE ROTATION


D619

Gear Motor



Piston Motor

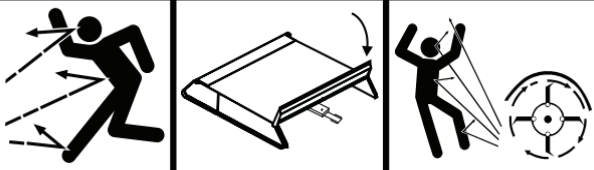


Return

Pressure

SAFETY

⚠ DANGER



THROWN OBJECTS HAZARD

Mower can throw objects up to 300 feet. TO AVOID SERIOUS INJURY OR DEATH to operator or bystanders:

- CLOSE MOWER DOOR and STOP operating if bystanders or traffic come within 300 feet.
- KEEP door fully closed when cutting grass and weeds.
- OPEN door ONLY to cut large brush. Close door immediately after.
- DO NOT operate with door removed.
- KEEP door in place and in good condition during operation.
- Deflectors are SUBJECT TO WEAR. Replace if worn or damaged.
- ALWAYS transport with door closed.

D622

ENTANGLEMENT HAZARD

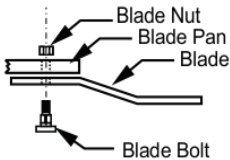


- STAY AWAY and KEEP hands, feet and body AWAY from rotating blades, drivelines and parts that continue to move after power shut-off. WAIT until all moving elements have stopped.
- STOP, LOOK and LISTEN for rotating motion before approaching implement.

⚠ WARNING

TO AVOID SERIOUS INJURY OR DEATH FROM BLADE ATTACHMENT FAILURE:

- Torque blade bolt to 600 ft lbs.
- ALWAYS replace blades in pairs.
- ALWAYS replace blades with new bolts and nuts.



D620

SAFETY

WARNING

**Non-genuine parts can fail catastrophically.
TO AVOID SERIOUS INJURY OR DEATH:**

- ONLY use genuine ALAMO INDUSTRIAL replacement parts.
- Non-genuine parts can fail creating hazardous conditions for operator and bystanders.

Contact local dealer or ALAMO INDUSTRIAL about repair parts

at:

1502 E. Walnut, Seguin, TX 78155.

Customer Service: 800-882-5762.

Email: support@alamo-industrial.com



www.algqr.com/apm

IMPORTANT

**BE AWARE
BE ALERT
BE ALIVE**

BE TRAINED

Before Operating this Mower

To prevent serious injury to yourself and/or bystanders, be trained in Safe Mowing Practices. Alamo Group Companies as well as AEM and FEMA provide training material that is critical for your Safety and the Safety of others when operating this equipment. Make these Safety Procedures an important part of every

workday. Read and understand the Operator's Manual. Do not let untrained individuals operate this equipment. Contact your Dealer, AEM (www.aem.org), FEMA (314-878-2304, www.FarmEquip.org), or Alamo Group (www.Alamo-Group.com) for information on training material or courses that provide training in Safer Operating Practices for Mowers.



www.algqr.com/abv

D564

D564_B

IMPORTANT

- Lubricate spindle every 40 hours of use or weekly.
- With tractor and mower off, inject lubricant into spindle.
- See Operator's Manual for substitute lubricant and detailed instructions.

D621

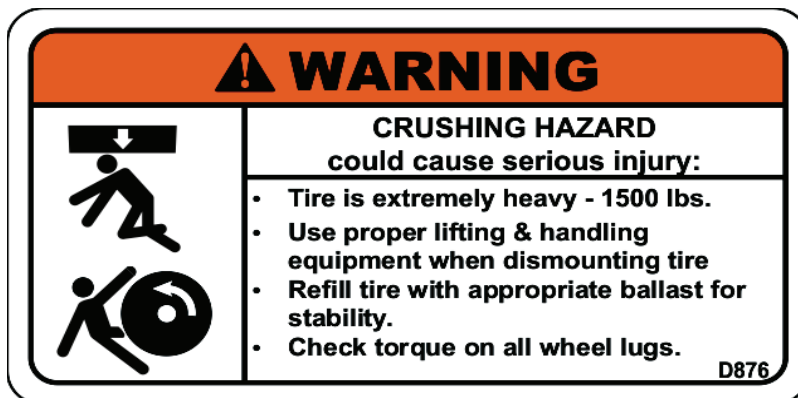
SAFETY



SAFETY



SAFETY



SAFETY

Federal Laws and Regulations

This section is intended to explain in broad terms the concept and effect of federal laws and regulations concerning employer and employee equipment operators. This section is not intended as a legal interpretation of the law and should not be considered as such.

Employer-Employee Operator Regulations

U.S. Public Law 91-596 (The Williams-Steiger Occupational and Health Act of 1970) OSHA

This Act Seeks:

"...to assure so far as possible every working man and woman in the nation safe and healthful working conditions and to preserve our human resources..."

DUTIES

Sec. 5 (a) Each employer-

- (1) shall furnish to each of his employees employment and a place of employment which are free from recognized hazards that are causing or are likely to cause death or serious physical harm to his employees;
- (2) shall comply with occupational safety and health standards promulgated under this Act.
- (b) Each employee shall comply with occupational safety and health standards and all rules, regulations and orders issued pursuant to this Act which are applicable to his own actions and conduct.

OSHA Training Requirements

Title 29, Code of Federal Regulations Part 1928.57(a)(6). www.osha.gov

Operator instructions. At the time of initial assignment and at least annually thereafter, the employer shall instruct every employee who operates an agricultural tractor and implements in the safe operating practices and servicing of equipment with which they are or will be involved, and of any other practices dictated by the work environment.

Keep all guards in place when the machine is in operation;

Permit no riders on equipment

Stop engine, disconnect the power source, and wait for all machine movement to stop before servicing, adjusting, cleaning or unclogging the equipment, except where the machine must be running to be properly serviced or maintained, in which case the employer shall instruct employees as to all steps and procedures which are necessary to safely service or maintain the equipment.

Make sure everyone is clear of machinery before starting the engine, engaging power, or operating the machine.

Employer Responsibilities:

To ensure employee safety during Tractor and Implement operation, it is the employer's responsibility to:

1. Train the employee in the proper and safe operation of the Tractor and Implement.
2. Require that the employee read and fully understand the Tractor and Implement Operator's manual.
3. Permit only qualified and properly trained employees to operate the Tractor and Implement.
4. Maintain the Tractor and Implement in a safe operational condition and maintain all shields and guards on the equipment.
5. Ensure the Tractor is equipped with a functional ROPS and seat belt and require that the employee operator securely fasten the safety belt and operate with the ROPS in the raised position at all times.
6. Forbid the employee operator to carry additional riders on the Tractor or Implement.
7. Provide the required tools to maintain the Tractor and Implement in a good safe working condition and provide the necessary support devices to secure the equipment safely while performing repairs and service.
8. Require that the employee operator stop operation if bystanders or passersby come within 300 feet.

Child Labor Under 16 Years of Age

Some regulations specify that no one under the age of 16 may operate power machinery. It is your responsibility to know what these regulations are in your own area or situation. (Refer to U.S. Dept. of Labor, Employment Standard Administration, Wage & Home Division, Child Labor Bulletin #102.)

SECTION 20

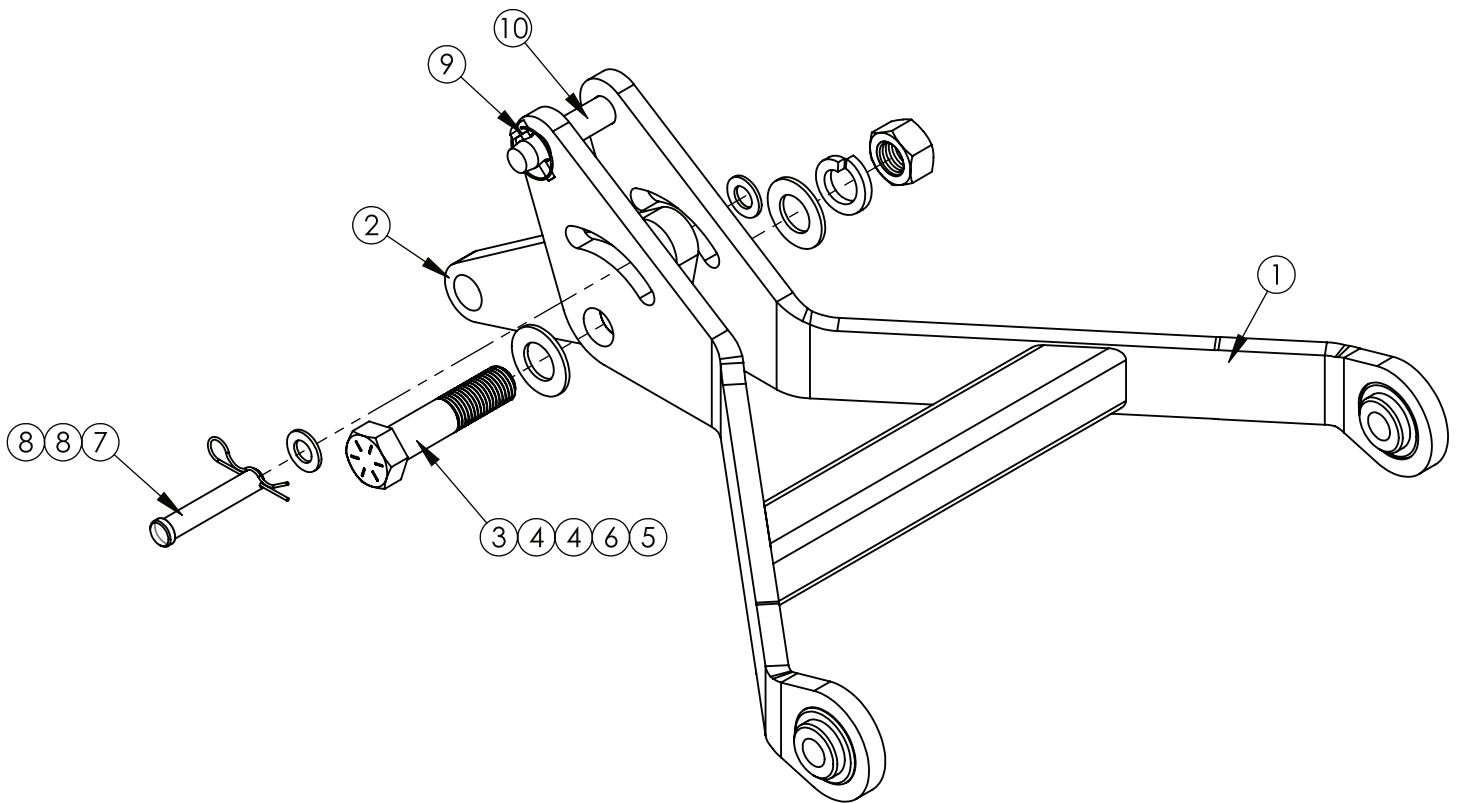
PARTS



ASY,STABILIZER

RMB 180/165

Rear Mounted Boom



Click on the model to rotate

Notes:
P/N 02999762

ASY, STABILIZER , P/N 02999762

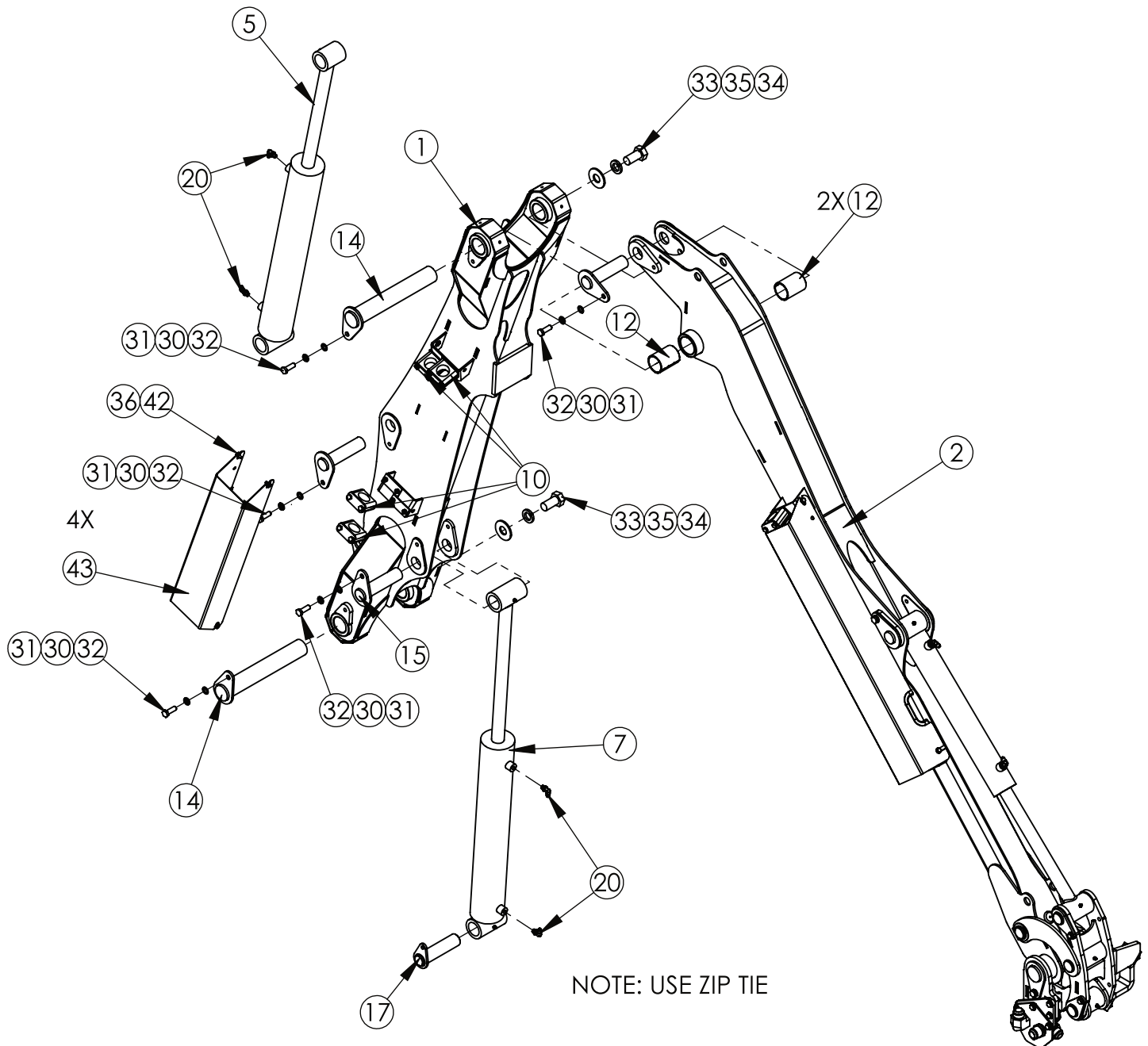
ITEM NO	PART NUMBER	DESCRIPTION	QTY
1	02999764	WLDMT, STABILIZER, RM	1
2	32120296	PLATE, ADJ CENT LINK	1
3	02999898	HHCS 1-1/4 NC 5-1/2 GR8	1
4	15C2000	WASHER, 1.375 X 2.50 X .165, HARDENED	2
5	02999899	NUT HEX 1-1/4 NC PL	1
6	255-020	LOCK WASHER 1-1/4	1
7	02999892	PIN, STEEL CLEVIS W/ COT, 4"	1
8	5312316	FLATWASHER 3/4 HARDENED	2
9	03100493	PIN-LYNCH 1/4	1
10	02991412	PIN, TOP LINK CAT II SHD	1



ASY,16' BOOM - RMB

RMB 180/165

Rear Mounted Boom

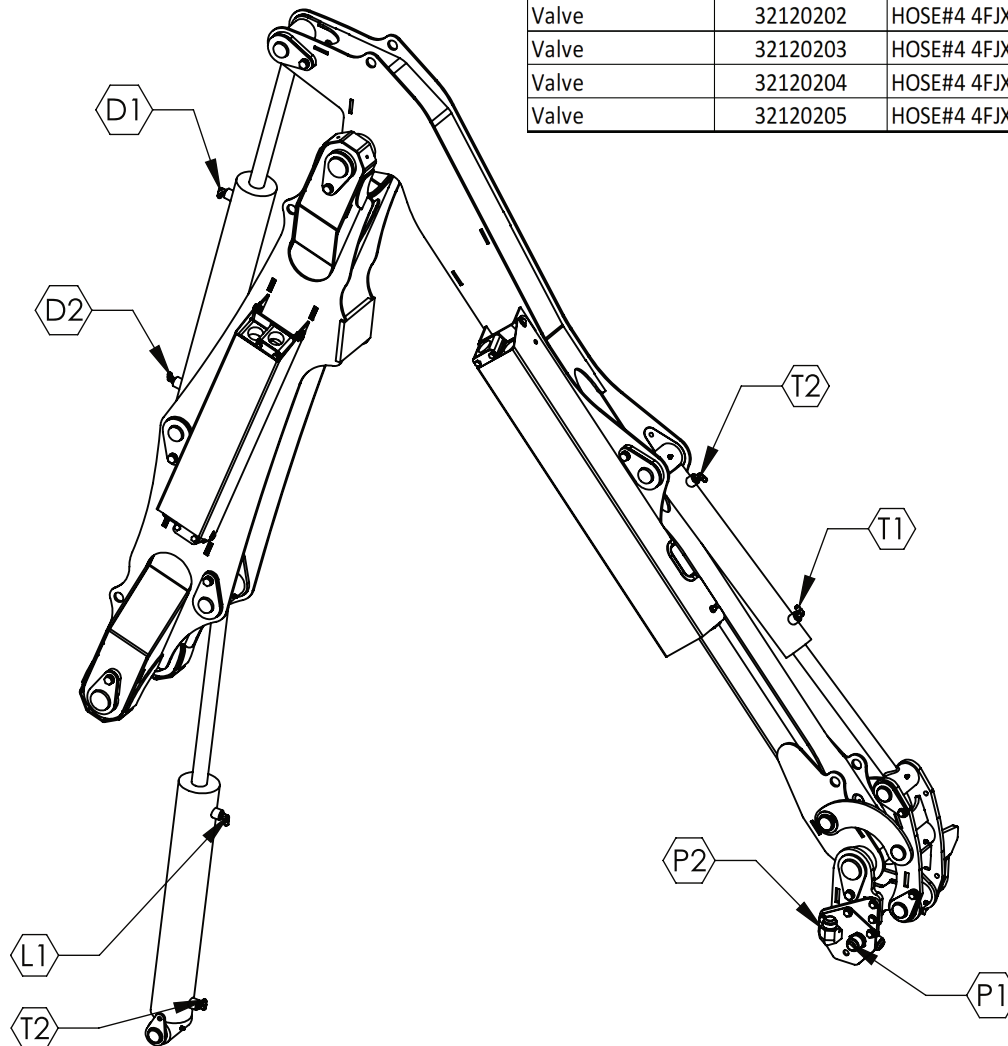


Click on the model to rotate

Notes:
P/N 02999943

ASY,16' BOOM - RMB

RMB 180/165 Rear Mounted Boom



HOSE TABLE			
VALVE PORT	A.I. PART #	DESCRIPTION	CONNECTION
M1 (Cutter Block)	32120233	HOSE#16 16FJX-16FJX90 201"	P1
M2 (Cutter Block)	32120234	HOSE#16 16FJX-16FJX 200"	P2
Valve	32120235	HOSE#4 4FJX-4FJX 179"	T1 (Tilt Rod)
Valve	32120236	HOSE#4 4FJX-4FJX 184"	T2 (Tilt Cap)
Valve	32120237	HOSE#4 4FJX-4FJX 105"	D1 (Dipper Rod)
Valve	32120238	HOSE#4 4FJX-4FJX 98"	D2 (Dipper Cap)
Valve	32120202	HOSE#4 4FJX-4FJX 60"	L1 (Lift Rod)
Valve	32120203	HOSE#4 4FJX-4FJX 60"	L2 (Lift Cap)
Valve	32120204	HOSE#4 4FJX-4FJX 40"	S1 (Swing Rod)
Valve	32120205	HOSE#4 4FJX-4FJX 40"	S2 (Swing Cap)

Click on the model to rotate

Notes:
P/N 02999943

ASY, 16' BOOM , P/N 02999943

ITEM NO.	PART NUMBER	DESCRIPTION	Default
1	02999937	WLDMT, LIFT SECTION, 16'	1
2	02999936	WLDMT, DIPPER, PATUSA 16'	1
3	02999864	WLDMT, UNI. HITCH, PATUSA	1
4	02999857	WLDMT, COUPLER LINK	1
5	02999705	CYL, 3.5B X 1.5R X 22ST	1
6	02999703	CYL, 2.5B X 1.5R X 16ST	1
7	02999702	CYL, 3.5BX 1.5R X 18.875ST	1
8	02999926	PLATE, BULKHEAD SPACER	1
9	02999927	PLATE, BULKHEAD, HITCH	1
10	02965059	CLAMP -1-1/2 TUBE SINGLE	8
11	02999917	BUSHING, 1.75ODX1.5ID X 1.75LG	6
12	02981420	CONNEX BUSHING, 2 1/4 X 2 X 3	4
13	02999863	WLDMT, RADIAL ARM	2
14	02999938	WLDMT, MAIN PIN, LIFT SEC	2
15	02999935	WLDMT, CYL PIN, LIFT ARM	2
16	02999858	WLDMT, COUPLER PIN 2	2
17	02998948	WLDMT, PIN, LIFT CYL CAP	1
18	02999861	WLDMT, HD TILT PIN, PATUSA	1
19	00752670	GREASE FITTING 1/4-28 BOLT THD	5
20	02960018	ADP, HYD, ELBOW, 4MB-4MJ90	6
21	02742500	ADAPTER 16MJ - 16MJ 90 BULKHEAD	2
22	02998343	BUSHING, 1-1/2 ID, 14GA PL	2
29	02994201	RETAINING RING, 1.5 SHAFT	2
24	00011100	FLATWASHER 3/8 STD	14
25	00753642	HHCS 3/8 NC 1-1/4 PL5	2
26	00015800	LOCKNUT TLM 3/8 NC PLC	7
27	02977955	HHCS 3/8NC 1-1/2 PL GR8	2
28	02977280	HHCS 3/8 NC 1-1/4 PL8	2
29	02999859	WLDMT, DIPPER CYL PIN	2
30	00001300	HIGH ALLOY, L/W 1/2 YZ KG	7
31	15B800	WASHER 1/2 SAE P	7
32	02892000	HHCS 1/2NC 1-1/2 LG PL8	7

ASY, 16' BOOM, P/N 02999943

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
33	02782200	HHCS 1" X 2" LG	3
34	02822500	FLATWASHER 1" PL	3
35	02032200	HIGH ALLOY, L/W 1 YZ KG	3
36	00024100	FLATWASHER STD 1/4 PL	8
37	02956851	ADP HYD ELBOW 16 MJ-16 JX 90	1
38	02999932	TRIM, HOSE SHIELD	2
39	32120327	PLUG, GREASE HOLE CAP	1
40	02957042	HHCS 3/8NC 1-3/4 PL GR8	1
41	32120878	PLATE, HOSE COVER, DIP, 16'	1
42	00002100	HHCS 1/4 NC 1/2 PL5	8
43	32120879	PLATE, HOSE COVER, LIFT, 16'	1
44	02999835	PLATE, CLAMP	2
45	02963646	HHCS 3/4 NC 2-1/2 PL8	4
46	00000200	NUT 3/4 NC HEX PL	4

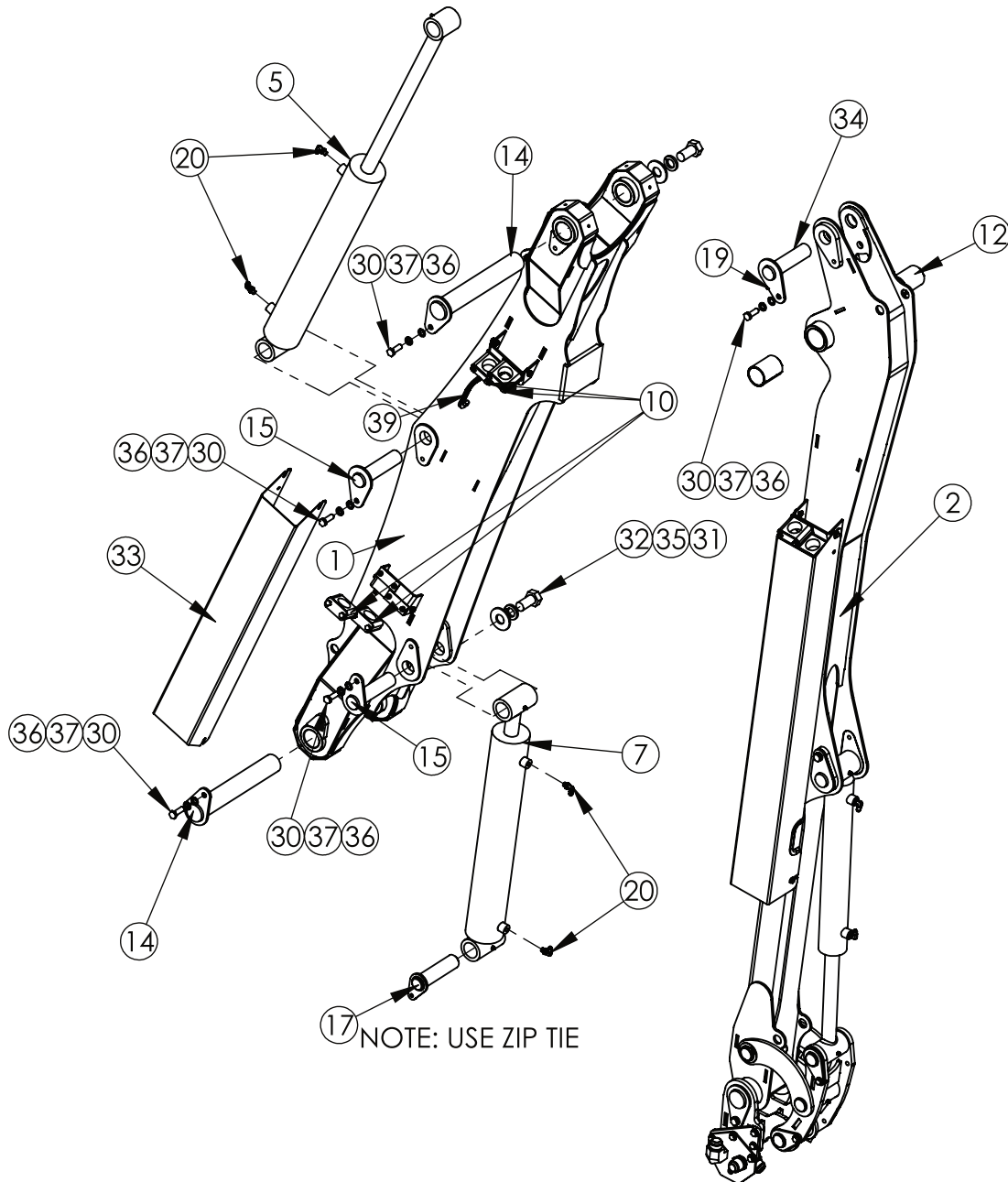
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ASY, 18' BOOM-RMB

RMB 180/165

Rear Mounted Boom



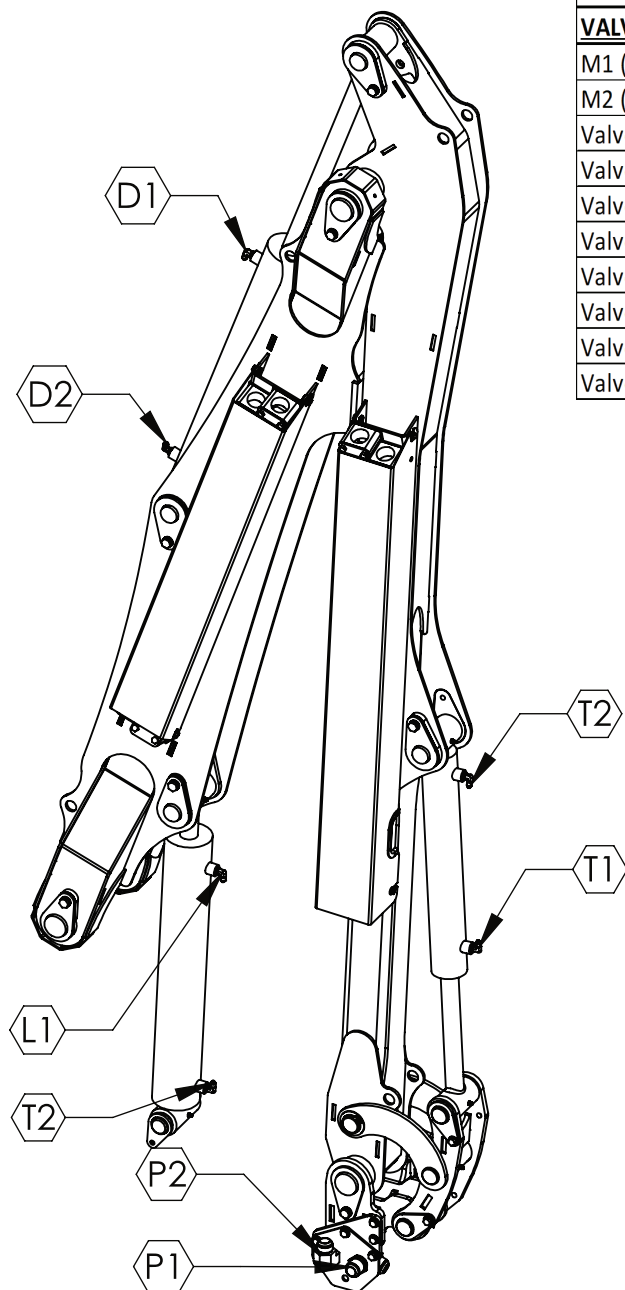
Click on the model to rotate

Notes:
P/N 02999942

ASY, 18' BOOM-RMB

RMB 180/165

Rear Mounted Boom



HOSE TABLE			
VALVE PORT	A.I. PART #	DESCRIPTION	CONNECTION
M1 (Cutter Block)	32120196	HOSE#16 16FJX-16FJX90 225"	P1
M2 (Cutter Block)	32120197	HOSE#16 16FJX-16FJX 224"	P2
Valve	32120198	HOSE#4 4FJX-4FJX 203"	T1 (Tilt Rod)
Valve	32120199	HOSE#4 4FJX-4FJX 208"	T2 (Tilt Cap)
Valve	32120200	HOSE#4 4FJX-4FJX 117"	D1 (Dipper Rod)
Valve	32120201	HOSE#4 4FJX-4FJX 110"	D2 (Dipper Cap)
Valve	32120202	HOSE#4 4FJX-4FJX 60"	L1 (Lift Rod)
Valve	32120203	HOSE#4 4FJX-4FJX 60"	L2 (Lift Cap)
Valve	32120204	HOSE#4 4FJX-4FJX 40"	S1 (Swing Rod)
Valve	32120205	HOSE#4 4FJX-4FJX 40"	S2 (Swing Cap)

Click on the model to rotate

Notes:
P/N 02999942

ASY, 18' BOOM-RMB , P/N 02999942

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	02999883	WLDMT, LIFT ARM, PATUSA	1
2	02999860	WLDMT, DIPPER, PATUSA	1
3	02999864	WLDMT, UNI. HITCH, PATUSA	1
4	02999857	WLDMT, COUPLER LINK	1
5	02999705	CYL, 3.5B X 1.5R X 22ST	1
6	02999703	CYL, 2.5B X 1.5R X 16ST	1
7	02999702	CYL, 3.5BX 1.5R X 18.875ST	1
8	02999926	PLATE, BULKHEAD SPACER	1
9	02999927	PLATE, BULKHEAD, HITCH	1
10	02965059	CLAMP -1-1/2 TUBE SINGLE	8
11	02999917	BUSHING, 1.75ODX1.5ID X 1.75LG	6
12	02981420	CONNEX BUSHING, 2 1/4 X 2 X 3	4
13	02999863	WLDMT, RADIAL ARM	2
14	02999938	WLDMT, MAIN PIN, LIFT SEC	2
15	02999935	WLDMT, CYL PIN, LIFT ARM	2
16	02999858	WLDMT, COUPLER PIN 2	2
17	02998948	WLDMT, PIN, LIFT CYL CAP	1
18	02999861	WLDMT, HD TILT PIN, PATUSA	1
19	00752670	GREASE FITTING 1/4-28 BOLT THD	5
20	02960018	ADP, HYD, ELBOW, 4MB-4MJ90	6
21	02742500	ADAPTER 16MJ - 16MJ 90 BULKHEAD	2
22	02956851	ADP HYD ELBOW 16 MJ-16 JX 90	1
23	02998343	BUSHING, 1-1/2 ID, 14GA PL	2
24	02994201	RETAINING RING, 1.5 SHAFT	2
25	00011100	FLATWASHER 3/8 STD	14
26	00753642	HHCS 3/8 NC 1-1/4 PL5	2
27	00015800	LOCKNUT TLM 3/8 NC PLC	7
28	02977955	HHCS 3/8NC 1-1/2 PL GR8	2
29	02977280	HHCS 3/8 NC 1-1/4 PL8	2
30	02892000	HHCS 1/2NC 1-1/2 LG PL8	7
31	02822500	FLATWASHER 1" PL	3
32	02782200	HHCS 1" X 2" LG	3
33	02999874	PLATE, HOSE COVER, LIFT	1

ASY, 18' BOOM-RMB , P/N 02999942

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
34	02999859	WLDMT, DIPPER CYL PIN	2
35	02032200	HIGH ALLOY, L/W 1 YZ KG	3
36	15B800	WASHER 1/2 SAE P	7
37	00001300	HIGH ALLOY, L/W 1/2 YZ KG	7
38	00024100	FLATWASHER STD 1/4 PL	8
39	02999932	TRIM, HOSE SHIELD	2
40	32120327	PLUG, GREASE HOLE CAP	1
41	02957042	HHCS 3/8NC 1-3/4 PL GR8	1
42	32120877	PLATE, HOSE COVER, DIPPER	1
43	00002100	HHCS 1/4 NC 1/2 PL5	8
44	02999835	PLATE, CLAMP	2
45	00000200	NUT 3/4 NC HEX PL	4
46	02963646	HHCS 3/4 NC 2-1/2 PL8	4

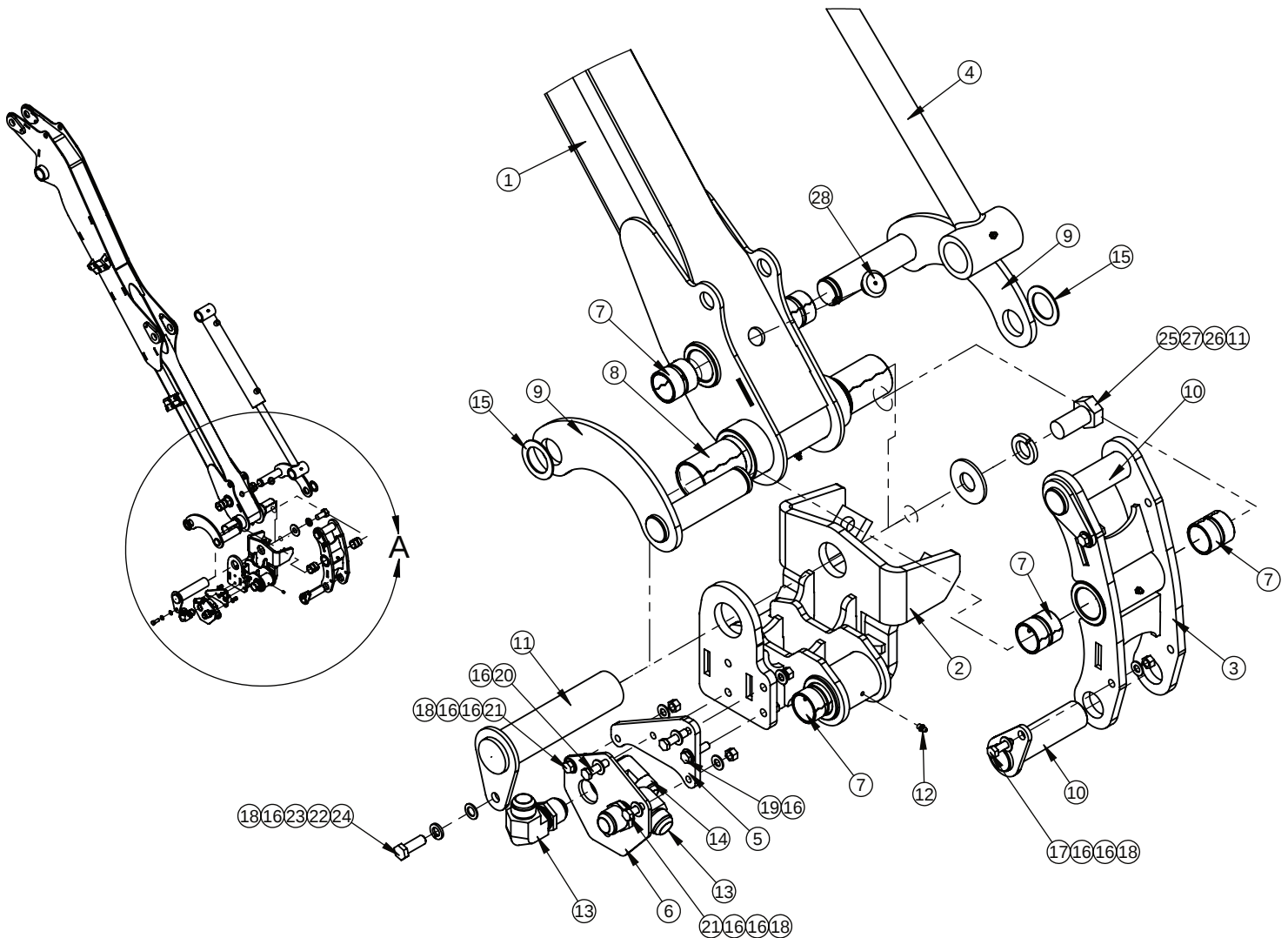


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ASY, BOOM HITCH

RMB 180/165

Rear Mounted Boom



Click on the model to rotate

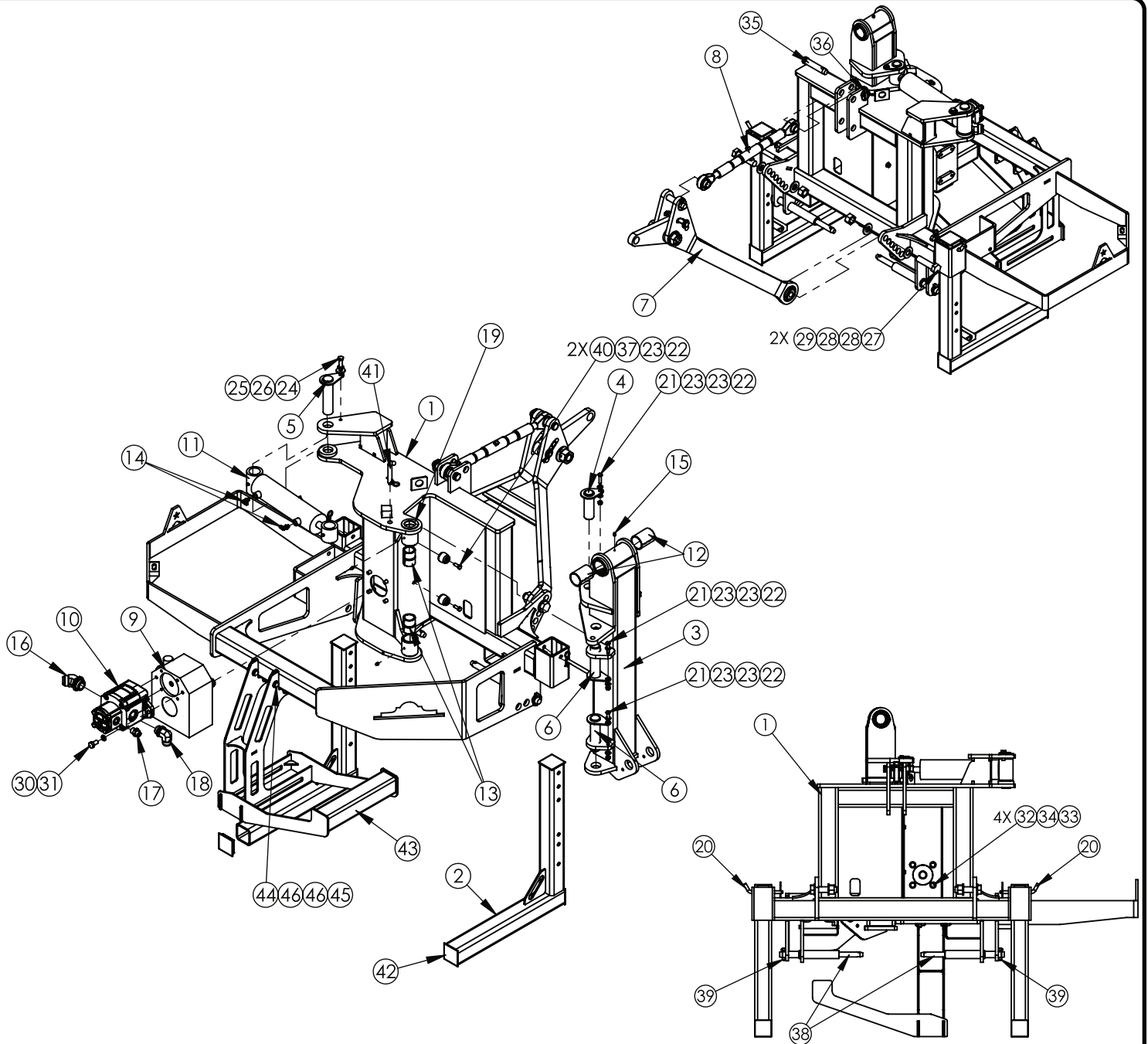
Notes:

ASY, BOOM HITCH

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	02999936	WLDMT, DIPPER, PATUSA 16'	1
1	02999860	WLDMT, DIPPER, PATUSA	1
2	02999864	WLDMT, UNI. HITCH, PATUSA	1
3	02999857	WLDMT, COUPLER LINK	1
4	02999703	CYL, 2.5B X 1.5R X 16ST	1
5	02999926	PLATE, BULKHEAD SPACER	1
6	02999927	PLATE, BULKHEAD, HITCH	1
7	02999917	BUSHING, 1.75ODX1.5ID X 1.75LG	6
8	02981420	CONNEX BUSHING, 2 1/4 X 2 X 3	2
9	02999863	WLDMT, RADIAL ARM	2
10	02999858	WLDMT, COUPLER PIN 2	2
11	02999861	WLDMT, HD TILT PIN, PATUSA	1
12	00752670	GREASE FITTING 1/4-28 BOLT THD	4
13	02742500	ADAPTER 16MJ - 16MJ 90 BULKHEAD	2
14	02956851	ADP HYD ELBOW 16 MJ-16 JX 90	1
15	02998343	BUSHING, 1-1/2 ID, 14GA PL	2
16	00011100	FLATWASHER 3/8 STD	14
17	00753642	HHCS 3/8 NC 1-1/4 PL5	2
18	00015800	LOCKNUT TLM 3/8 NC PLC	7
19	02977955	HHCS 3/8NC 1-1/2 PL GR8	2
20	02957042	HHCS 3/8NC 1-3/4 PL GR8	1
21	02977280	HHCS 3/8 NC 1-1/4 PL8	2
22	00001300	HIGH ALLOY, L/W 1/2 YZ KG	1
23	15B800	WASHER 1/2 SAE P	1
24	02892000	HHCS 1/2NC 1-1/2 LG PL8	1
25	02782200	HHCS 1" X 2" LG	1
26	02822500	FLATWASHER 1" PL	1
27	02032200	HIGH ALLOY, L/W 1 YZ KG	1
28	32120327	PLUG, GREASE HOLE CAP	1

ASY, MAINFRAME, RMB

Rear Mounted Boom



Click on the model to rotate

Notes: P/N 02999944

ASY, MAINFRAME, RMB P/N 02999944

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	02999509	WLDMT, MAINFRAME	1
2	02999893	WLDMT, MAINFRAME LEG	2
3	02999537	WLDMT, SWINGPOST	1
4	02999940	WLDMT, PIN, SWING ROD	1
5	02999939	WLDMT, PIN, SWING BARREL	1
6	02999941	WLDMT, PIN, SWINGPOST PIVOT	2
7	02999762	ASY, STABLIZER, RMB	1
8	02999947	ASY, TOP LINK, CAT II	1
9	02999693	GEARBOX	1
10	02999697	PUMP, SINGLE INLET, 44/8CC	1
11	02999704	CYL, 3B X 1R X 9.5ST	1
12	02981420	CONNEX BUSHING, 2 1/4 X 2 X 3	2
13	02999918	BUSHING, 1.87ODX1.5ID X 2.5 LG	2
14	02960018	ADP, HYD, ELBOW, 4MB-4MJ90	2
15	00752670	GREASE FITTING 1/4-28 BOLT THD	3
16	02961825	ADP HYD ELBOW 20MB-20MJ - 45	1
17	02042300	ADP, HYD ST 10MB - 8MJ	1
18	02090900	ADP HYD ELBOW 16MB-16MJ90	1
19	32120298	THRUST BEARING 1-3/4 X 2-5/8	1
20	02999710	PIN, BENT-PULL W/ COTTER PIN	2
21	00023100	HHCS 3/8 X 1-1/2 NC PL GR5	3
22	00015800	LOCKNUT TLM 3/8 NC PLC	5
23	00011100	FLATWASHER 3/8 STD	8
24	00748823	HHCS 1/2 NC 1-1/2 PL5	1
25	00002700	FLATWASHER, 1/2 PL STD	1
26	10009600	LOCKWASHER, 1/2 HVY, PLATED	1
27	02712500	HHCS 1 NC 4 PL8 SPECIAL	2
28	00009216	WASHER, STRUCTURAL 1" F436 HRD	4
29	02030300	NUT, TOPLOCK 1-8 UNC PL5	2
30	00754586	LOCKWASHER, 14MM	2

ASY, MAINFRAME, RMB P/N 02999944

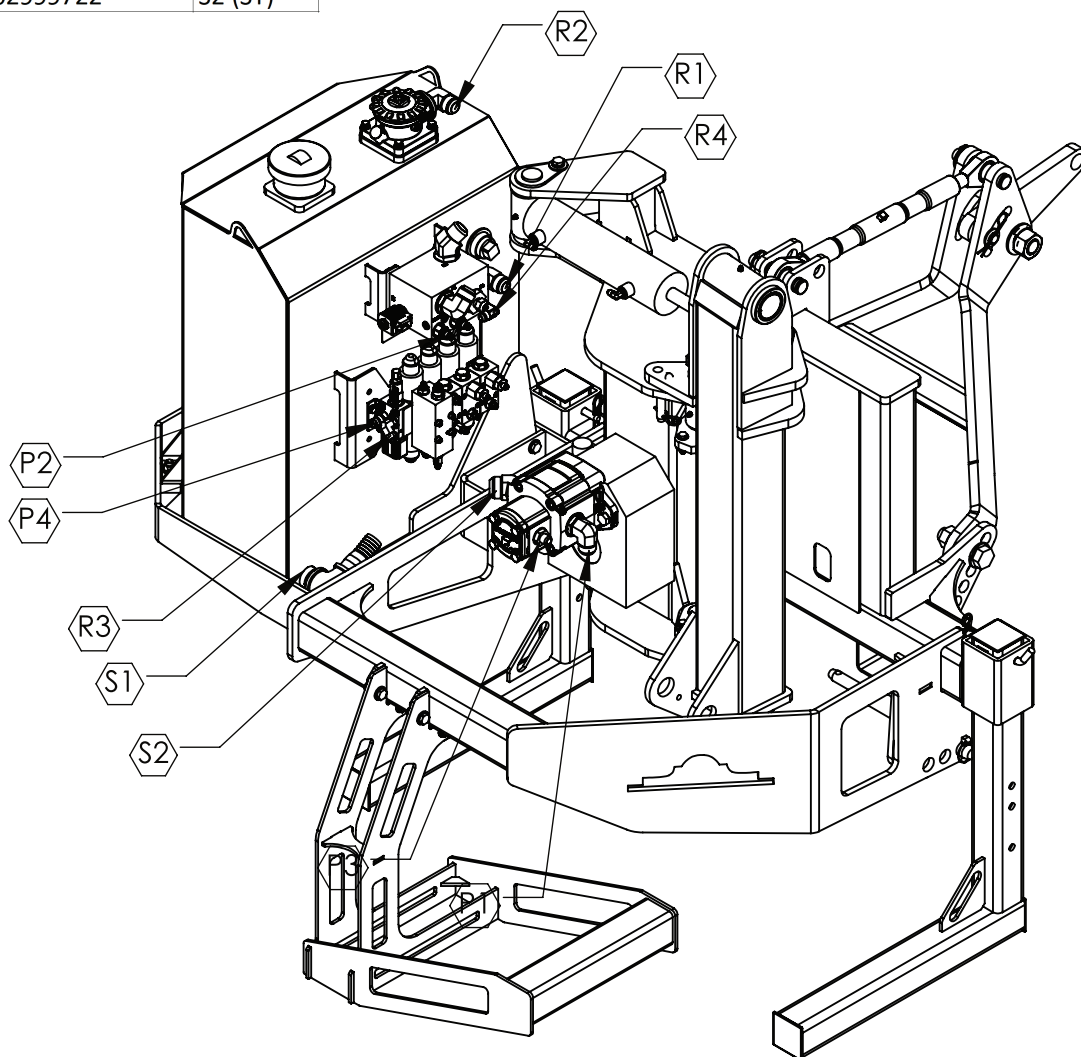
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
31	32120508	BOLT, M14 X 25MM P-2.0 10.9	2
32	02958597	HHCS 12mm X 25mm LG	4
33	701513C	M12 FLATWASHER - PLT.	4
34	00754566	LOCKWASHER, 12MM	4
35	02991412	PIN, TOP LINK CAT II SHD	1
36	03100493	PIN-LYNCH 1/4	1
37	02999709	COMPRESSION SPRING - 1.375"	2
38	P34-0291	RI-1 DRAW PIN CAT II 4	2
39	00002196	CLIP (LYNCH PIN), 13/32 DIA.	2
40	00011400	HHCS 3/8 NC 1 PL5	2
41	32120315	PIN, BENT, 5/8" X 3"	1
42	32120496	PLUG, 3 X 3, SNAP-IN	6
43	32120589	WLDMT, SHIPPING HITCH	1
44	02892000	HHCS 1/2NC 1-1/2 LG PL8	4
45	00001800	LOCKNUT TLM 1/2 NC PLB	4
46	00759635	FLATWASHER, 1/2 HARDENED	8

MAINFRAME HOSE ROUTING, RMB

RMB 180/165

Rear Mounted Boom

DESCRIPTION	END1	HOSE P/N	END 2
Block to Filter	R1 (90)	02999718	R2 (ST)
Pump to Block	P1 (ST)	02999719	P2 (90)
Pump to Valve	P3 (90)	02999720	P4 (ST)
Valve to Block	R3 (90)	02999721	R4 (ST)
Tank to Pump	S1 (ST)	02999722	S2 (ST)



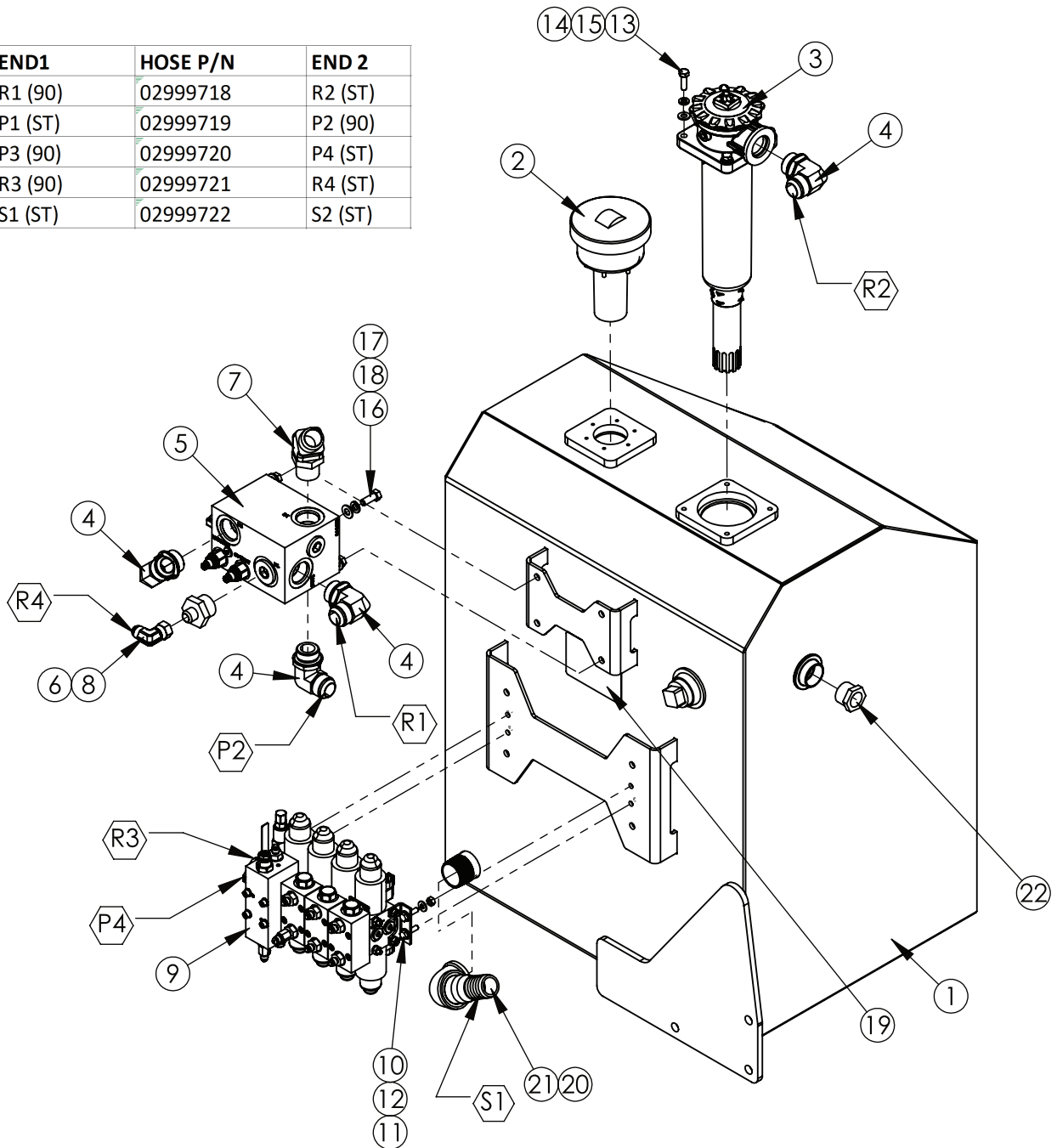
Click on the model to rotate

Notes:

ASY, HYD TANK

RMB 180/165 Rear Mounted Boom

DESCRIPTION	END1	HOSE P/N	END 2
Block to Filter	R1 (90)	02999718	R2 (ST)
Pump to Block	P1 (ST)	02999719	P2 (90)
Pump to Valve	P3 (90)	02999720	P4 (ST)
Valve to Block	R3 (90)	02999721	R4 (ST)
Tank to Pump	S1 (ST)	02999722	S2 (ST)



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Notes:
P/N 02999723

ASY, HYD TANK, P/N 02999723

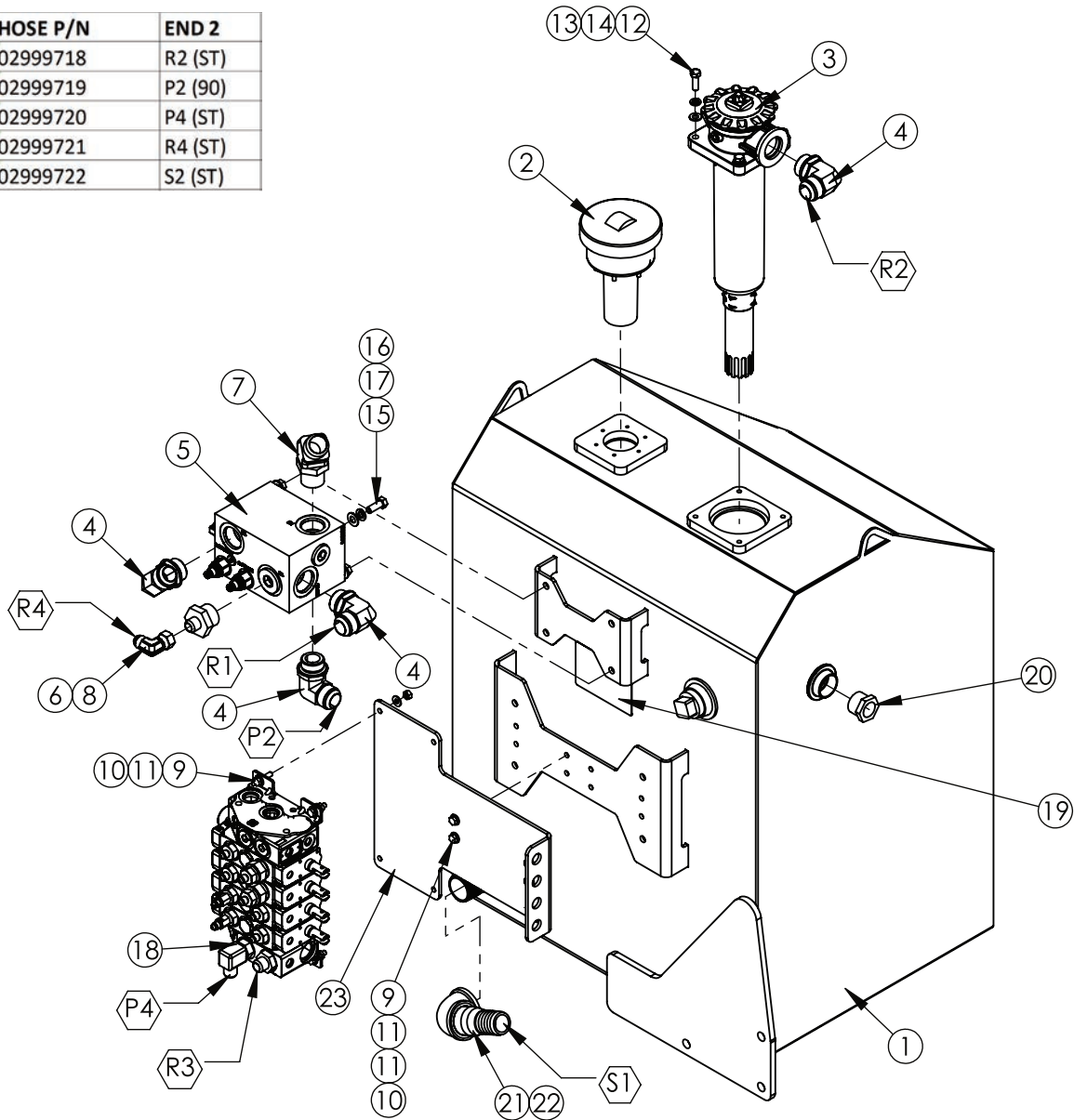
ITEM NO	PART NUMBER	DESCRIPTION	QTY
1	02999725	WLDMT, HYD TANK, PATUSA	1
2	02999708	ASY, FILLER NECK	1
3	02999700	FILTER, RETURN	1
4	02090900	ADP HYD ELBOW 16MB-16MJ90	4
5	02999694	VALVE, BRAKE MANIFOLD	1
6	02968167	ADP, HYD 16MB - 8MJ ST	1
7	02043600	ADP, HYD ELBOW 16MB - 16MJ 45	1
8	02761100	ADP HYD ELBOW 8MJ-8FJX90	1
9	02999724	ASY, VALVE, PATUSA	1
10	10058000	HHCS 1/4NC-1" PL GR5	4
11	02959924	NUT, TOPLOCK 1/4 NC PLB	4
12	00024100	FLATWASHER STD 1/4 PL	8
13	10119000	HHCS 5/16 NC 1 PL5	4
14	00023500	FLATWASHER 5/16, TYPE AW, ZP	4
15	00011700	LOCKWASHER 5/16 PL STD	4
16	00011400	HHCS 3/8 NC 1 PL5	4
17	00011100	FLATWASHER 3/8 STD	4
18	03101646	HIGH ALLOY, L/W 3/8 YZ	4
19	02999740	DECAL, ELECTRO VALVE LAYOUT	1
20	02961115	ADP,PIPE,20FP-20FP,90DEG	1
21	03200300	FITG HOSE BIB #20 HOSE - #20MP	1
22	02049700	SIGHT GUAGE W/ REFLECTOR 16 MP	1



RMB 180/165

Rear Mounted Boom

DESCRIPTION	END1	HOSE P/N	END 2
Block to Filter	R1 (90)	02999718	R2 (ST)
Pump to Block	P1 (ST)	02999719	P2 (90)
Pump to Valve	P3 (90)	02999720	P4 (ST)
Valve to Block	R3 (90)	02999721	R4 (ST)
Tank to Pump	S1 (ST)	02999722	S2 (ST)



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Notes:
P/N 02999945

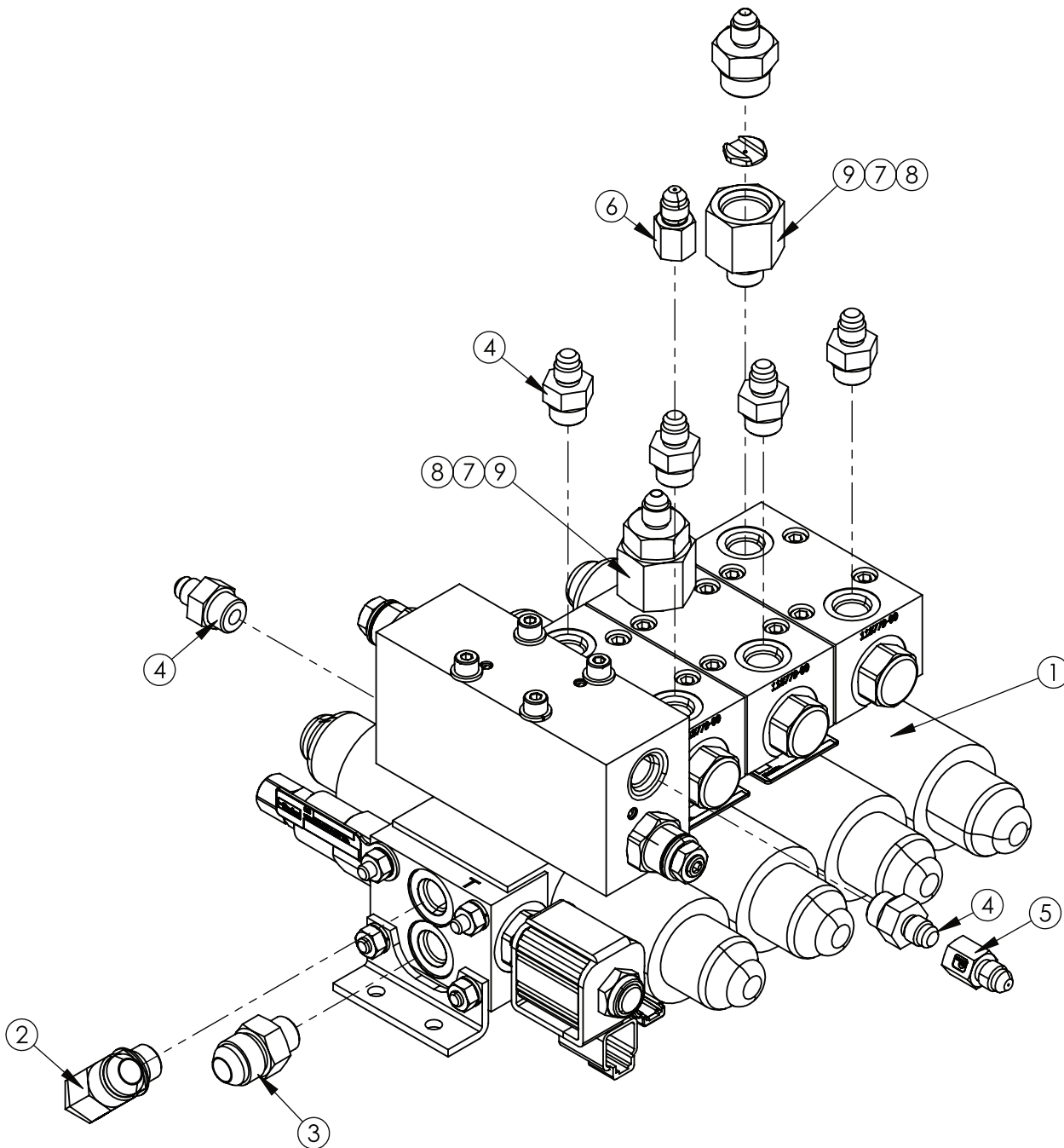
ASY, HYD TANK MAN, P/N 02999945

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	02999725	WLDMT, HYD TANK, PATUSA	1
2	02999708	ASY, FILLER NECK	1
3	02999700	FILTER, RETURN	1
4	02090900	ADP HYD ELBOW 16MB-16MJ90	4
5	02999694	VALVE, BRAKE MANIFOLD	1
6	02968167	ADP, HYD 16MB - 8MJ ST	1
7	02043600	ADP, HYD ELBOW 16MB - 16MJ 45	1
8	02761100	ADP HYD ELBOW 8MJ-8FJX90	1
9	10058000	HHCS 1/4NC-1" PL GR5	8
10	02959924	NUT, TOPLOCK 1/4 NC PLB	8
11	00024100	FLATWASHER STD 1/4 PL	16
12	10119000	HHCS 5/16 NC 1 PL5	4
13	00023500	FLATWASHER 5/16, TYPE AW, ZP	4
14	00011700	LOCKWASHER 5/16 PL STD	4
15	00011400	HHCS 3/8 NC 1 PL5	4
16	00011100	FLATWASHER 3/8 STD	4
17	03101646	HIGH ALLOY, L/W 3/8 YZ	4
18	02999946	ASY, MAN VALVE, PATUSA	1
19	02999740	DECAL, ELECTRO VALVE LAYOUT	1
20	02049700	SIGHT GUAGE W/ REFLECTOR 16 MP	1
21	03200300	FITG HOSE BIB #20 HOSE - #20MP	1
22	02961115	ADP,PIPE,20FP-20FP,90DEG	1
23	32120894	PLATE, VALVE MT, RMB	1

ASY, VALVE ELECTRIC, - RMB

RMB 180/165

Rear Mounted Boom



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Notes:
P/N 02999724

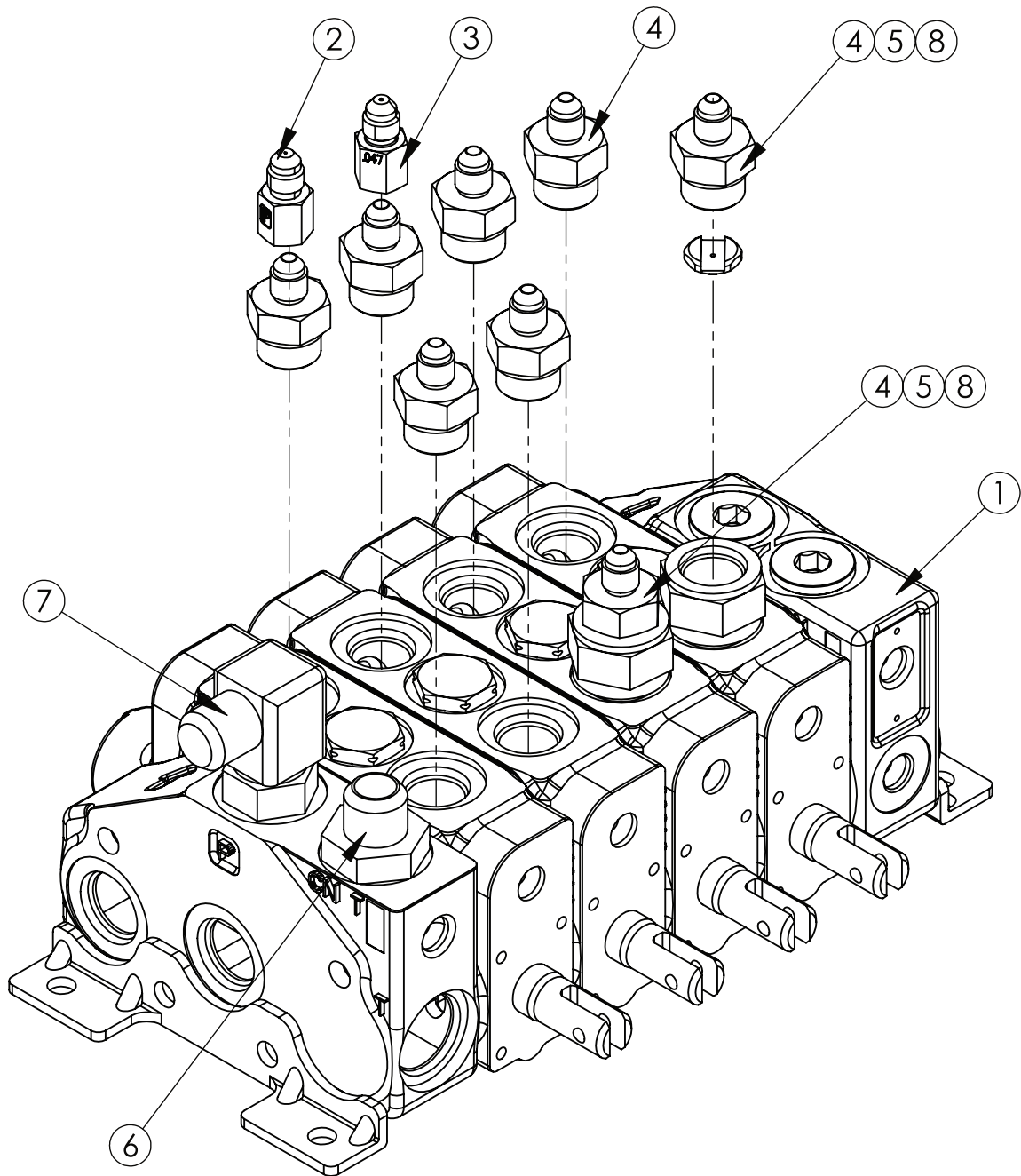
ASY, ELECTRIC VALVE , P/N 02999724

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	2999698	VALVE, CTRL, 4-SCTN, ELECTRIC	1
2	2998986	ADP HYD ELBOW 8MJ-6MB90	1
3	770346	ADAPTER HYD STRGHT 6MB-8MJ	1
4	3200284	ADAPTER, HYD, 6MB-4MJ	6
5	2998691	ADP, HYD 4FJ-4MJ .031 ORF	1
6	32120244	HYD ADP, 4MJ-4FJ, 0.047	1
7	2969398	ORIFICE, .055 ONE-WAY RESTRCTR	2
8	2822300	ADP, HYD ST 8MB-4MJ	2
9	2972112	ADP HYD STGHT 8FB - 6MB	2

ASY, MAN VALVE, - RMB

RMB 180/165

Rear Mounted Boom



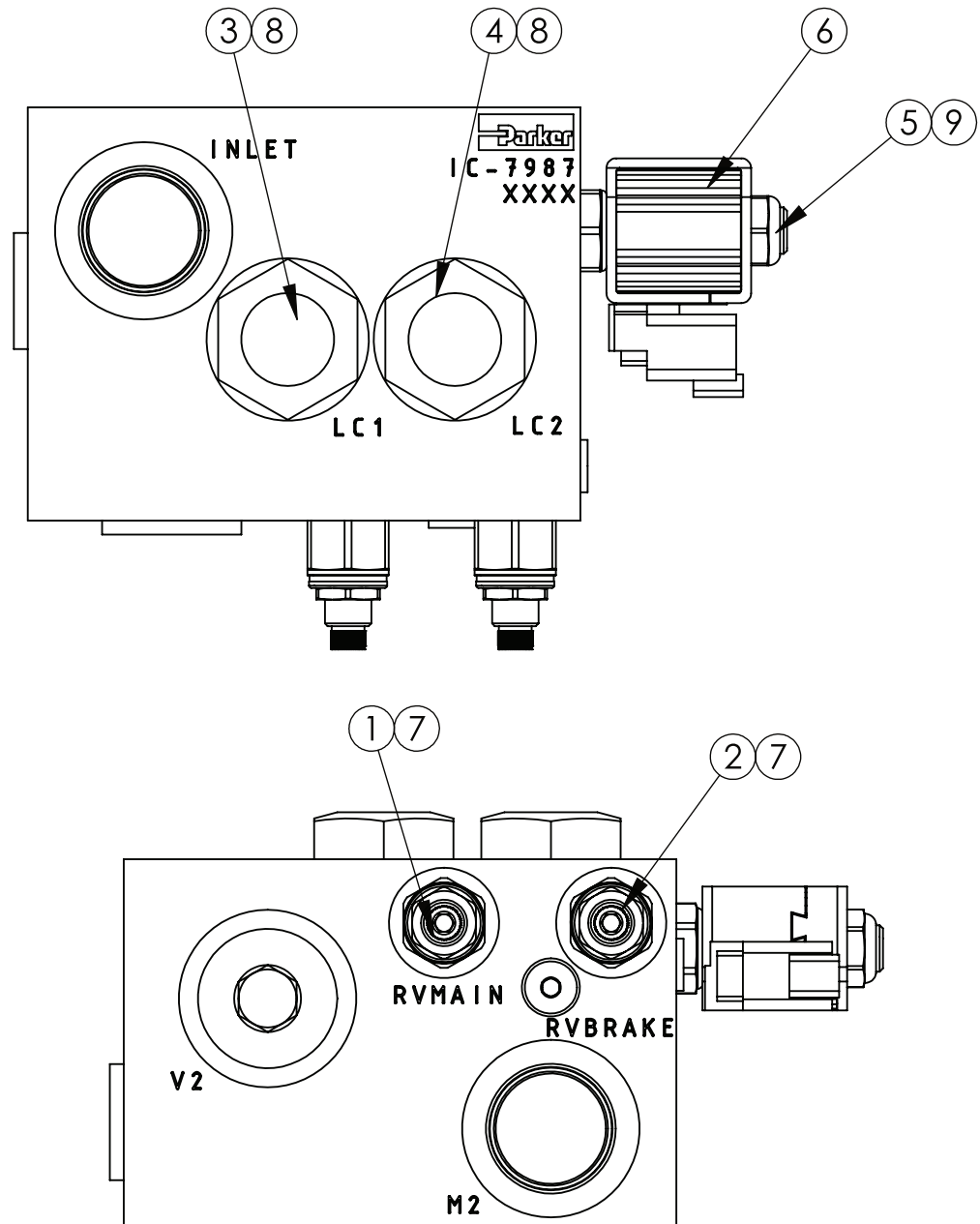
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Notes:
P/N 02999946

VALVE, BRAKE MANIFOLD
P/N 02999694

RMB 180/165

Rear Mounted Boom



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Notes: P/N 02999694

VALVE, BRAKE MANIFOLD P/N 02999694

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	32121088	RELIEF VALVE D.A. C10 35000 PSI	1
2	32121089	RELIEF VALVE D.A. C08 1850 PSI	1
3	02983517	LOGIC CART, 50 BAR, CUT VAL	1
4	02983516	LOGIC CART, 25 BAR, CUT VAL	1
5	02984339	SOLENOID, CARTRIDGE 2P3W	1
6	02991756	COIL, 12VDC	1
7	02987165	SEAL KIT, VITON, RELIEF VALVE	2
8	02980979	SEAL KIT, POLY, LOGIC VALVE	2
9	02987375	SEAL KIT, VITON, SOL CARTRIDGE	1

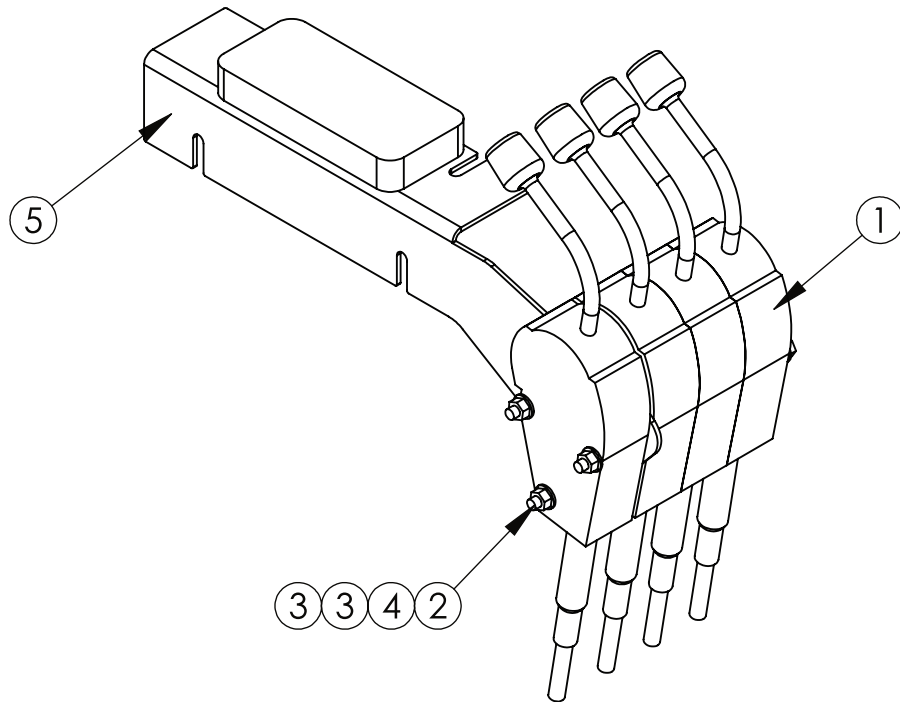
ASY, MAN VALVE , P/N 02999946

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	2999699	VALVE, CTRL, 4-SCTN, CABLE	1
2	2998691	ADP, HYD 4FJ-4MJ .031 ORF	1
3	32120244	HYD ADP, 4MJ-4FJ, 0.047	1
4	2822300	ADP, HYD ST 8MB-4MJ	8
5	2969398	ORIFICE, .055 ONE-WAY RESTRCTR	2
6	2042300	ADP, HYD ST 10MB - 8MJ	1
7	2161300	ADP, HYD ELBOW 10MB - 8MJ 90	1
8	2972159	ADP HYD STGHT 8FB - 8MB	2

ASY, LEVER MOUNT

RMB 180/165

Rear Mounted Boom



ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	02974323	ASY ANGLED SINGLE AXIS CONTROL	4
2	02964686	BOLT, HHCS 5/16" X 7-1/2" LG	3
3	00023500	FLATWASHER 5/16, TYPE AW, ZP	6
4	00750940	NUT, TOPLOCK 5/16 NC PL B	3
5	32120417	ASY, ARMREST, RM180/165	1

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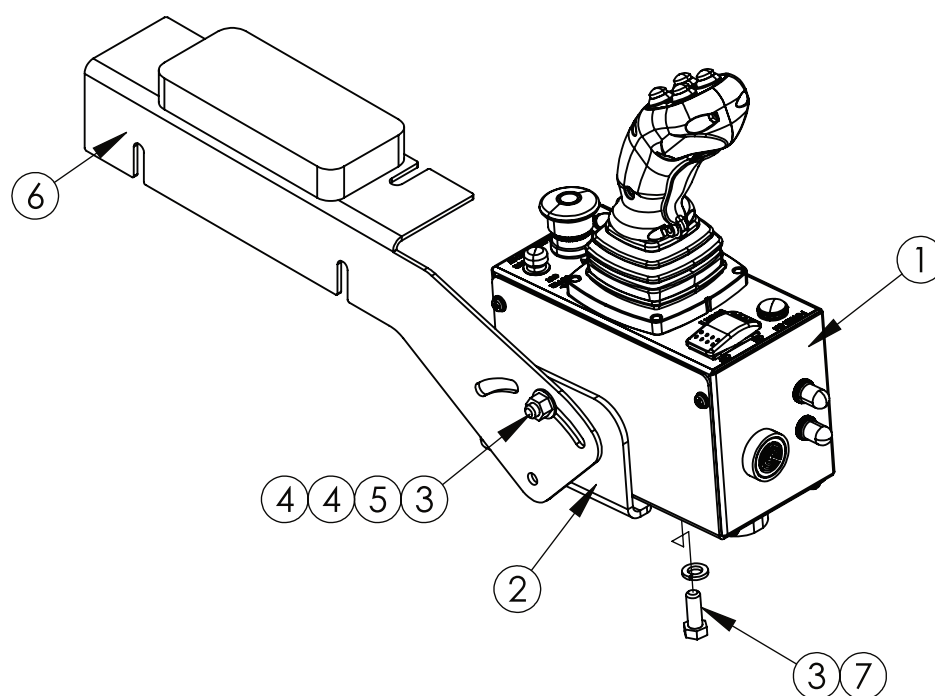
Notes:

KIT, CABLES AND LEVERS P/N 32120316

ITEM NO.	PART NO	DESCRIPTION	QTY
1	02966687	YOKE, ADJ	4
2	02974323	ASY ANGLED SINGLE AXIS CONTROL	4
3	02971203	CABLE REM CTRL 102" RVC-BLKHD	4
4	02992553	YOKE,CABLE CONNECTION MALE	4
5	02968698	PIN COTTER 3/32X 3/4	8
6	02966688	CLEVIS PIN 3/16 X 7/8	8
7	32120417	ASY, ARMREST, RM180/165	1
8	00750940	LOCKNUT TLM 5/16 NC PLB	3
9	00023500	FLATWASHER 5/16 PL	6
10	02964686	HHCS 5/16NC 7-1/2	3
11	32120418	DWG, CONTROL MT, RM180/165	1
12	32120491	HARNESS, RMB, MANUAL	1
13	02964028	SWITCH, PUSH-PULL, W/ KNOB	1

ASY, JOYSTICK MOUNT

RMB 180/165 Rear Mounted Boom



ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	32120242	JOYSTICK, OEM, RMB	1
2	02984097	PLATE, JOYSTICK BRKT	1
3	00011400	BOLT, HHCS 3/8 NC 1 PL5	3
4	00011100	FLATWASHER 3/8 STD	2
5	00015800	LOCKNUT TLM 3/8 NC PLC	1
6	32120417	ASY, ARMREST, RM 180/165	1
7	00012101	LOCKWASHER, 3/8" PL	2

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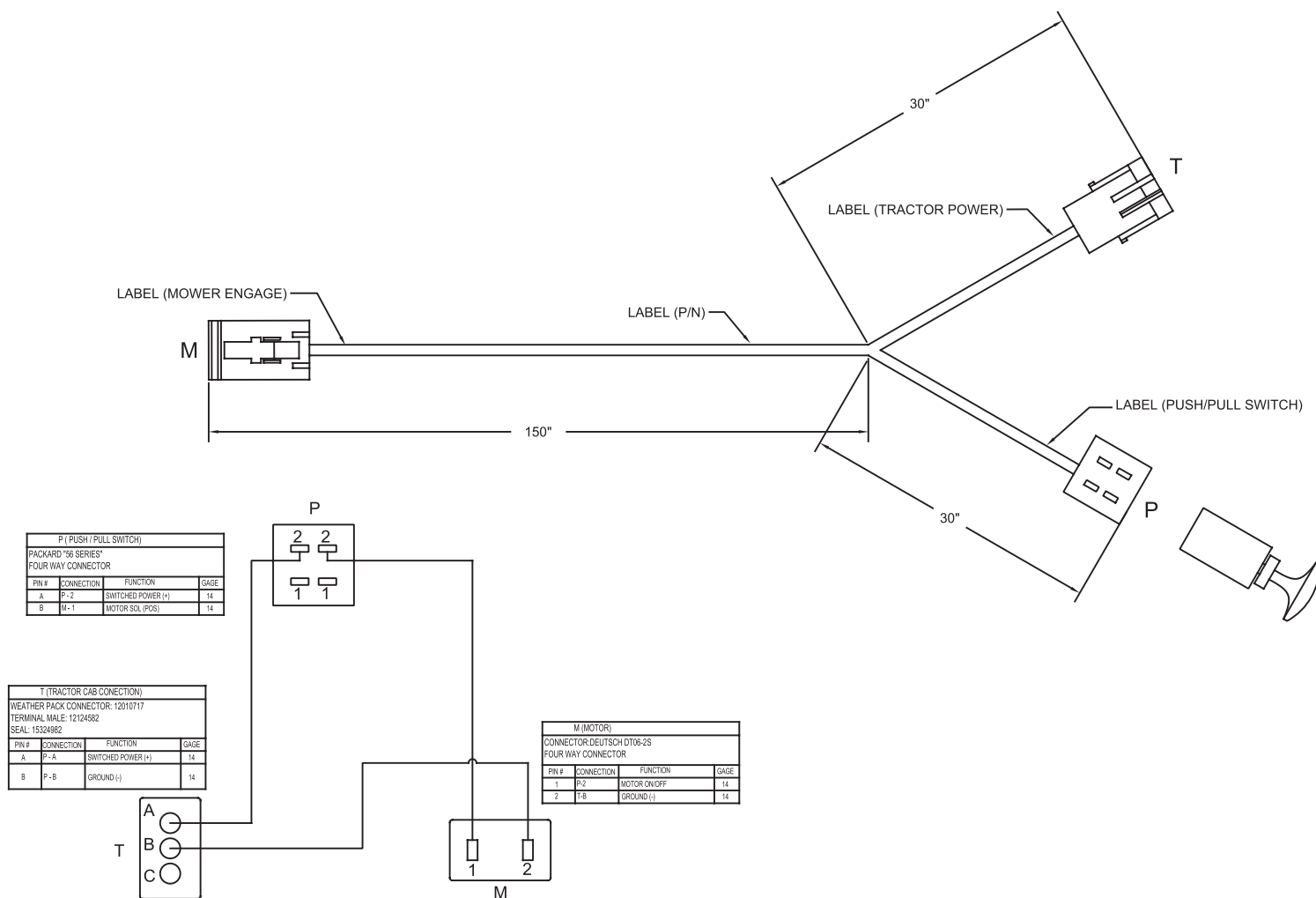
Notes:

KIT, JOYSTICK MOUNT, P/N 32120420

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	32120242	JOYSTICK, OEM, RMB	1
2	02984097	PLATE, JOYSTICK BRKT	1
3	00011400	BOLT, HHCS 3/8 NC 1 PL5	3
4	00011100	FLATWASHER 3/8 STD	2
5	00015800	LOCKNUT TLM 3/8 NC PLC	1
6	32120417	ASY, ARMREST, RM180/165	1
7	00012101	LOCKWASHER, 3/8" PL	2

ASY, WIRE HARNESS, RMB

RMB 180/165 Rear Mounted Boom



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Notes: P/N 32120491

KIT, PROXIMTY SENSOR/ALARM, P/N 32120294

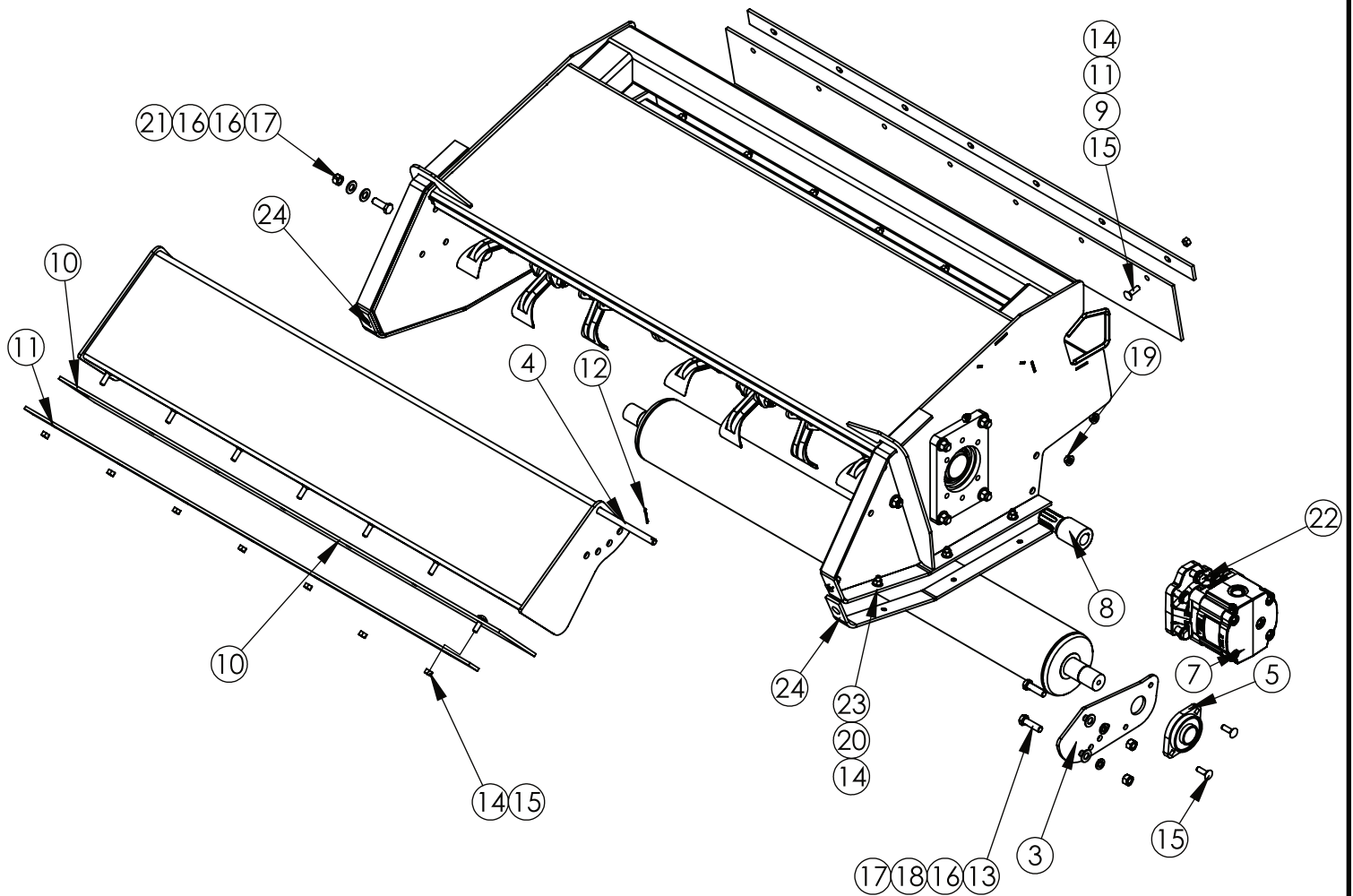
PROXIMITY SENSOR/ALARM KIT, P/N 32120294

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	00015800	LOCKNUT TLM 3/8-NC PLC	2
2	00011400	HEXB 3/8-16 X 1 PL5	2
3	00011100	FLATWASHER STD 3/8 - PLATED	2
4	02999709	COMPRESSION SPRING - 1.375"	2
5	02999707	SENSOR, PROXIMITY	1

ASY, FLAIL , RMB F91, KVNS

RMB 180/165

Rear Mounted Boom



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Notes:
P/N 02999801

ASY, FLAIL -RMB F91 , P/N 02999801

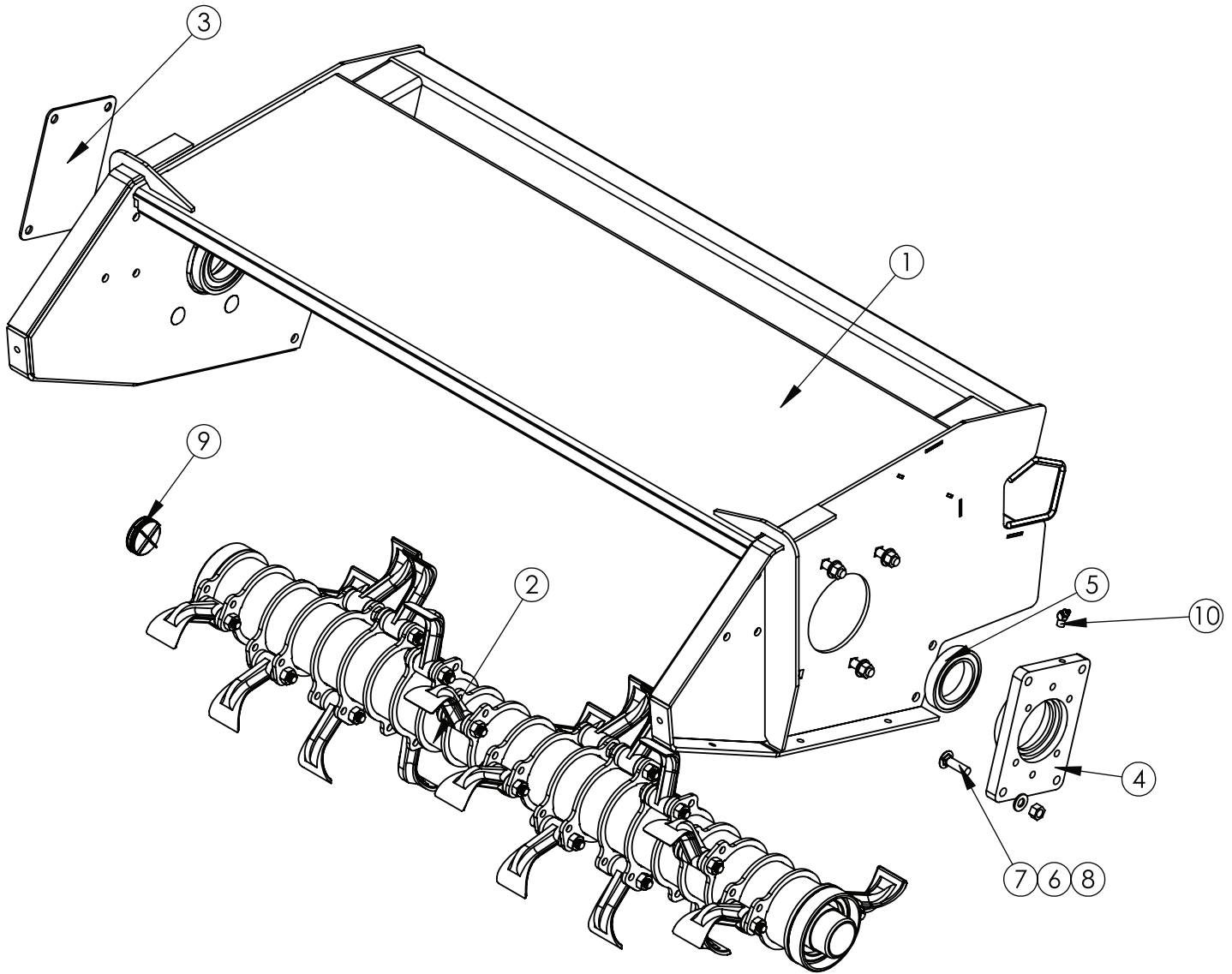
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	32120259	ASY, SUB FLAIL 48"	1
2	02999794	WLDMT, FLAIL DOOR	1
3	02999783	PLATE, ROLLER ADJUSTER	2
4	02999799	PIN, HINGE	1
5	02957041	ROLLER BEARING & FLANGE	2
6	02970540	WLDMT - REAR ROLLER	1
7	02999952	MOTOR, GEAR, 34CC	1
8	32121992	MACH MOTOR CPLR, 1" TO 1-	1
9	02999804	FLAP, REAR	1
10	02999803	FLAP, FRONT	1
11	02999784	PLATE, FLAP RETAINER	2
12	40010000	PIN, COTTER 1/8X1	2
13	00749130	HHCS 1/2 NC 1-3/4 PL5	4
14	00015800	LOCKNUT TLM 3/8 NC PLC	22
15	000644	CARB 3/8 NC 1-1/4 PL5	18
16	02978804	WASHER, FLAT 1/2X1-1/16	18
17	00001200	NUT HEX 1/2 NC	6
18	00001300	HIGH ALLOY, L/W 1/2 YZ KG	10
19	00751281	NUT JAM 3/8-16 PLA	4
20	15B600	WASHER 3/8 SAE P	12
21	02892000	HHCS 1/2NC 1-1/2 LG PL8	2
22	00748823	HHCS 1/2 x 1-1/2 NC GR5	6
23	00059700	FSCS 3/8 NC X 1-1/4	8
24	02999770	SKID SHOE	2



ASY, SUB FLAIL 48" F91 KNVS

RMB 180/165

Rear Mounted Boom



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Notes: P/N 32120259

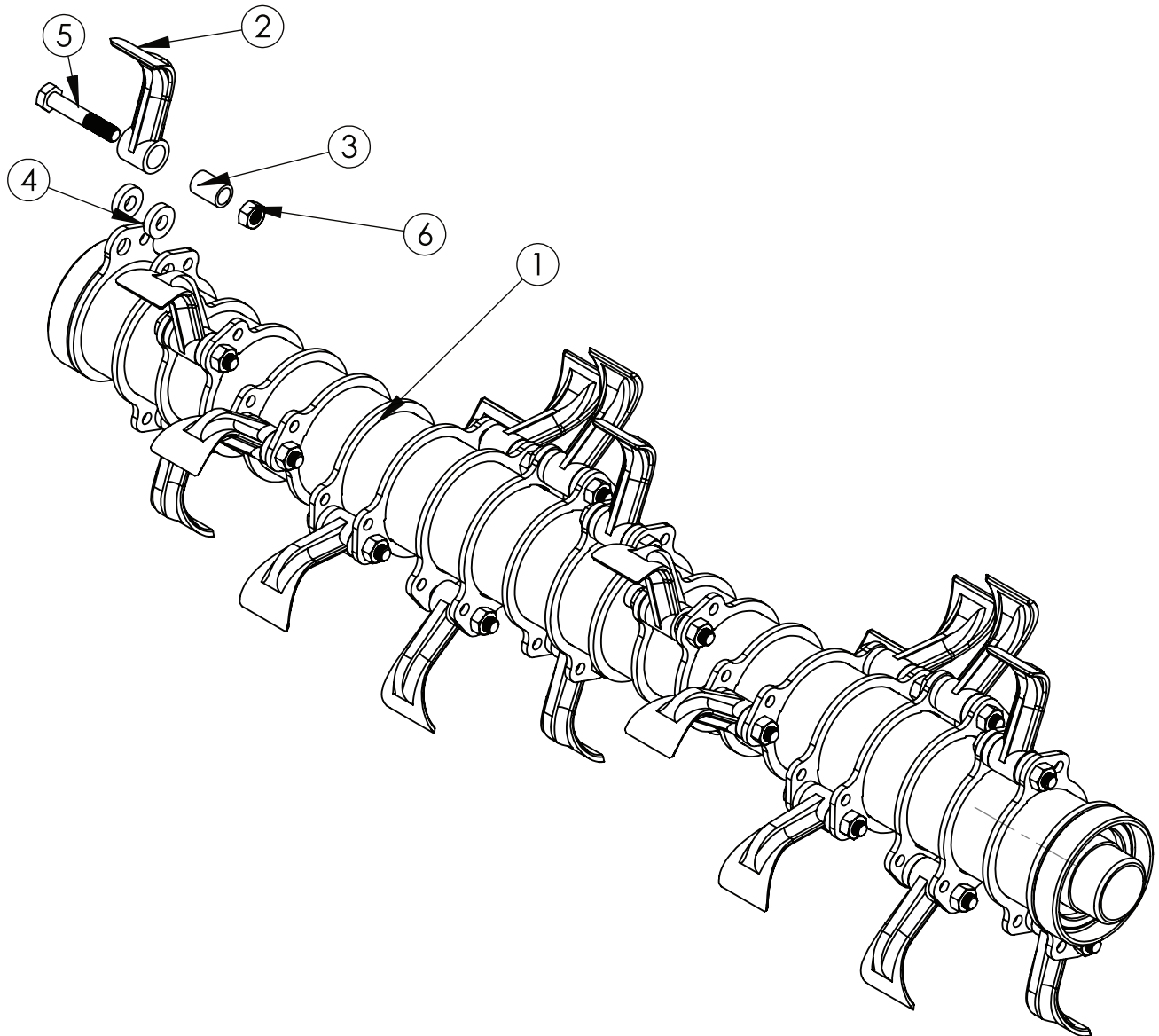
ASY, SUB FLAIL, 48", P/N 32120259

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	02998025	ZERK 1/8 F 45	2
2	32120738	PLUG, END SHAFT	1
3	00001800	LOCKNUT TLM 1/2 NC PLB	8
4	000516	CARB 1/2"NC x 1-3/4"	8
5	00759635	FLATWASHER, 1/2 HARDENED	8
6	02999802	BEARING, CUTTERSHAFT	2
7	02999795	WLDMT, BEARING BOSS	2
8	02999785	PLATE, COVER	1
9	02999800	ASY, CUTTERSHAFT KNIFE	1
10	02999793	WLDMT, FLAIL HEAD SHELL	1

ASY, CUTTERSHAFT KNIFE F91
P/N 02999800

RMB 180/165

Rear Mounted Boom



Click on the model to rotate

Notes: P/N 02999800

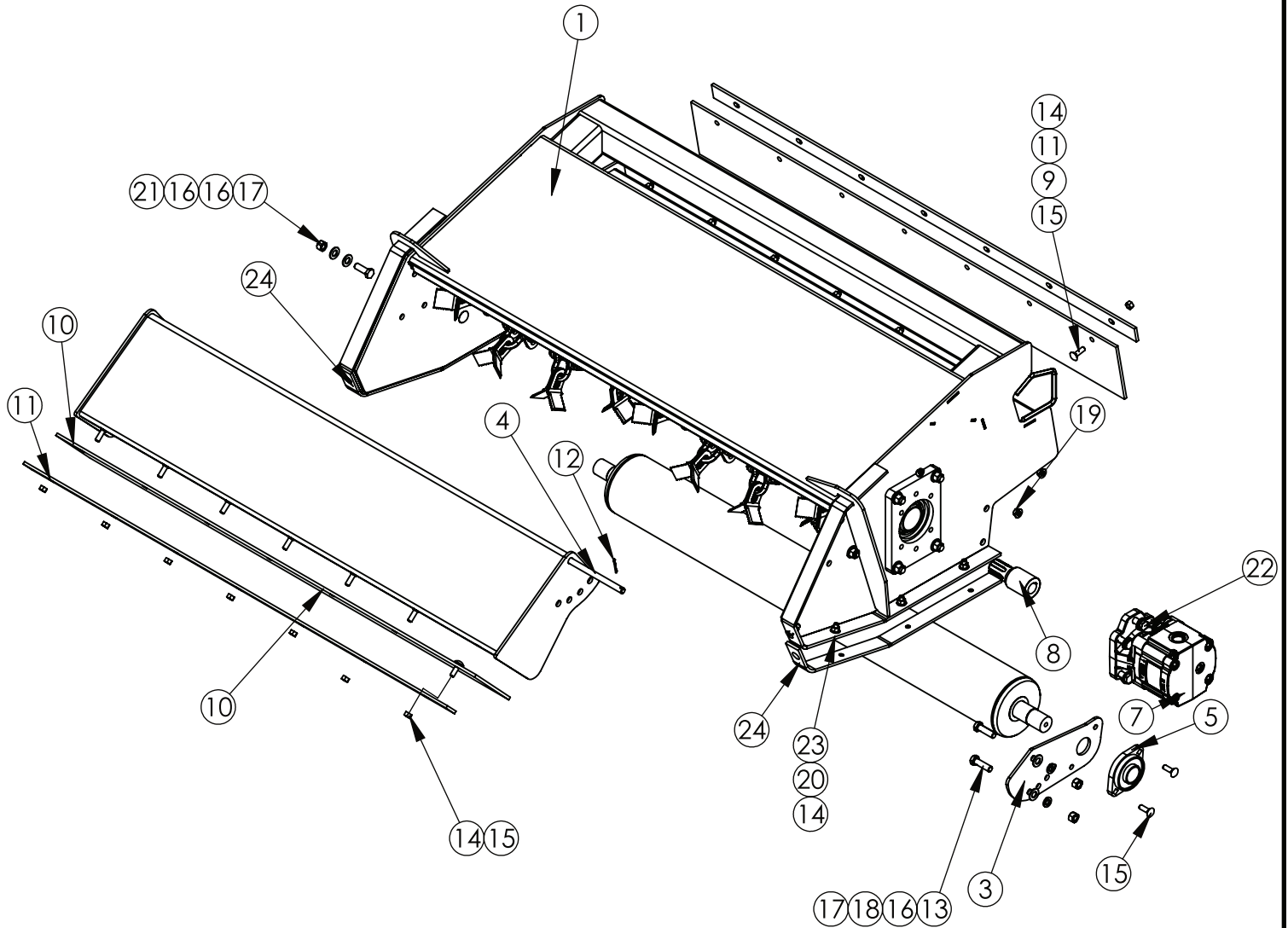
ASY, CUTTERSHAFT KNIFE F91 P/N 02999800

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	02999798	WLDMNT, CUTTERSHAFT	1
2	7198390	F91 COMPETITION FLAIL OPTION	22
3	32120323	BUSHING, BLADE	22
4	32120324	SPACER	44
5	32120335	HHCS, M14-P2.0 x 80mm PL10.9	22
6	32120939	M14-2.0 PL TOPLOCK NUT	22

ASY, FLAIL, RMB MD KNVS

RMB 180/165

Rear Mounted Boom



Click on the model to rotate

Notes: P/N 32120414

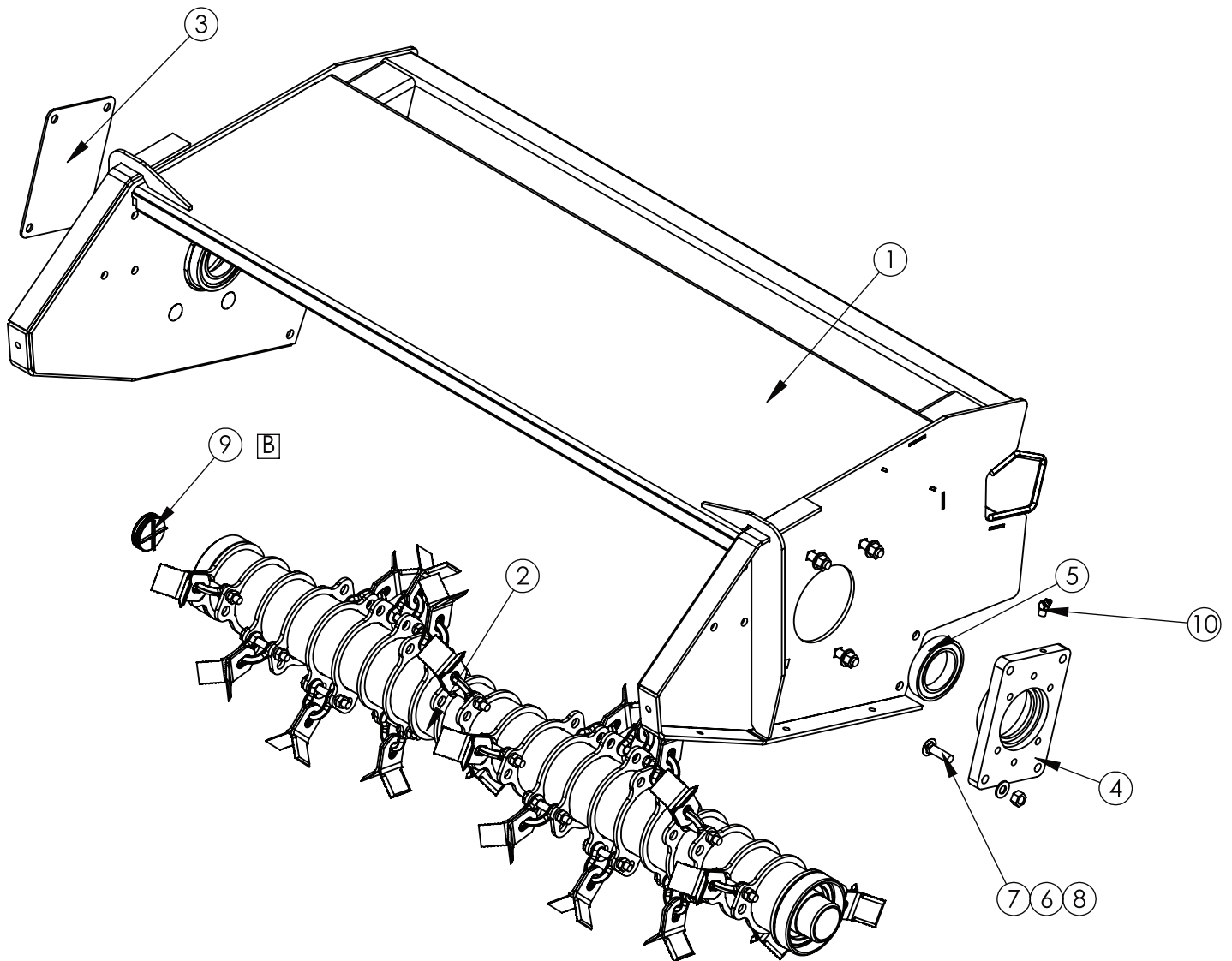
ASY, FLAIL, RMB F91 KNVS, P/N 32120414

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	32120415	ASY, SUB FLAIL 48"	1
2	02999794	WLDMT, FLAIL DOOR	1
3	02999783	PLATE, ROLLER ADJUSTER	2
4	02999799	PIN, HINGE	1
5	02957041	ROLLER BEARING & FLANGE	2
6	02970540	WLDMT - REAR ROLLER	1
7	02999952	MOTOR, GEAR, 34CC	1
8	32121992	MACH MOTOR CPLR, 1" TO 1-3/8-6	1
9	02999804	FLAP, REAR	1
10	02999803	FLAP, FRONT	1
11	02999784	PLATE, FLAP RETAINER	2
12	40010000	PIN, COTTER 1/8X1	2
13	00749130	HHCS 1/2 NC 1-3/4 PL5	4
14	00015800	LOCKNUT TLM 3/8 NC PLC	22
15	000644	CARB 3/8 NC 1-1/4 PL5	18
16	02978804	WASHER, FLAT 1/2X1-1/16	18
17	00001200	NUT HEX 1/2 NC	6
18	00001300	HIGH ALLOY, L/W 1/2 YZ KG	10
19	00751281	NUT JAM 3/8-16 PLA	4
20	15B600	WASHER 3/8 SAE P	12
21	02892000	HHCS 1/2NC 1-1/2 LG PL8	2
22	00748823	HHCS 1/2 x 1-1/2 NC GR5 PL	6
23	00059700	FSCS 3/8 NC X 1-1/4	8
24	02999770	SKID SHOE	2

ASY, SUB FLAIL 48" MD

RMB 180/165

Rear Mounted Boom



Click on the model to rotate

Notes: P/N 32120415

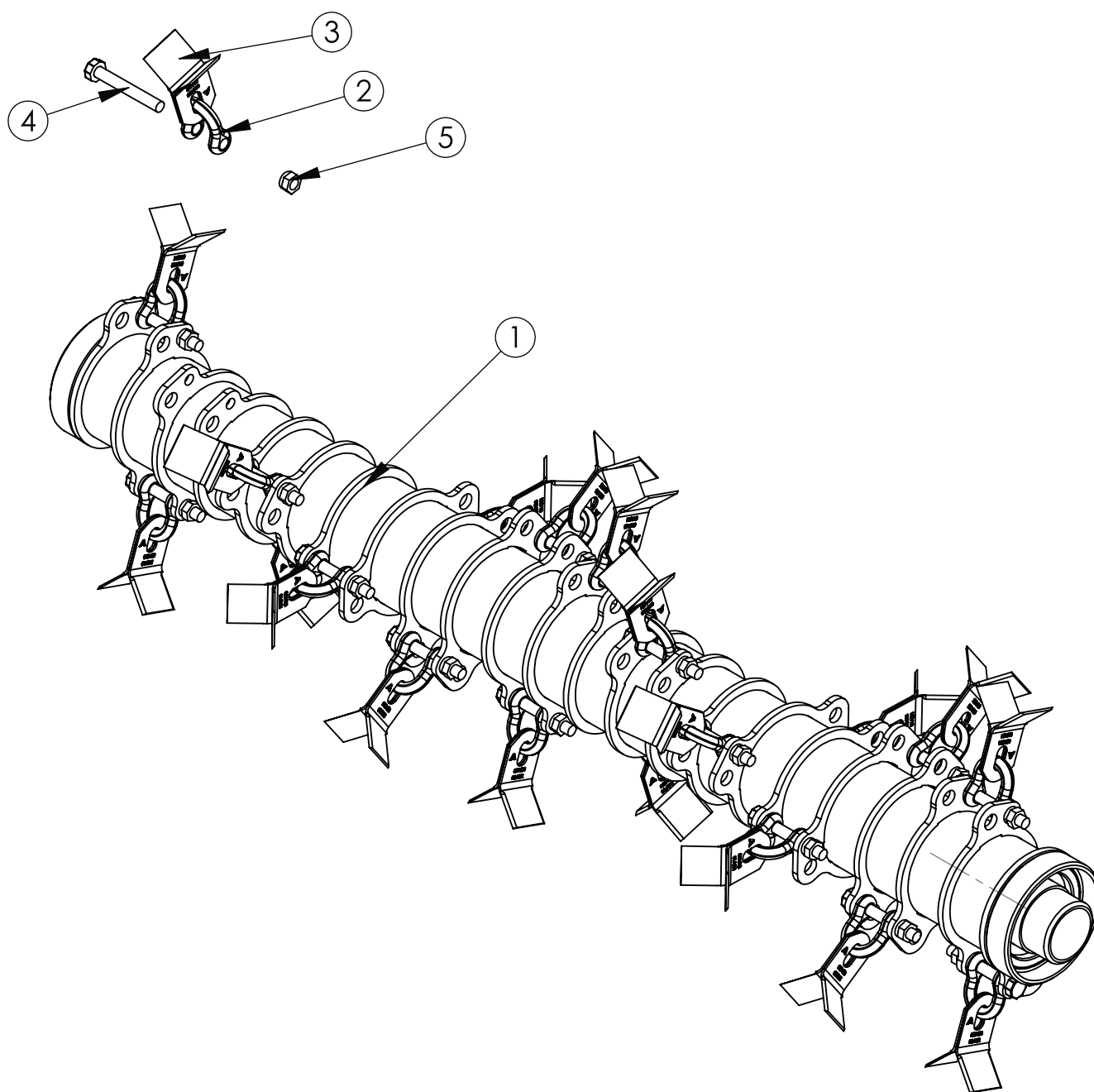
ASY, SUB FLAIL 48" MD , P/N 32120415

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	02999793	WLDMT, FLAIL HEAD SHELL	1
2	32120416	ASY, CUTTERSHAFT KNIFE MD	1
3	02999785	PLATE, COVER	1
4	02999795	WLDMT, BEARING BOSS	2
5	02999802	BEARING, CUTTERSHAFT	2
6	00759635	FLATWASHER, 1/2 HARDENED	8
7	000516	CARB 1/2"NC x 1-3/4"	8
8	00001800	LOCKNUT TLM 1/2 NC PLB	8
9	32120738	PLUG, END SHAFT	1
10	02998025	ZERK 1/8 F 45	2

ASY, CUTTERSHAFT KNIFE MD

RMB 180/165

Rear Mounted Boom



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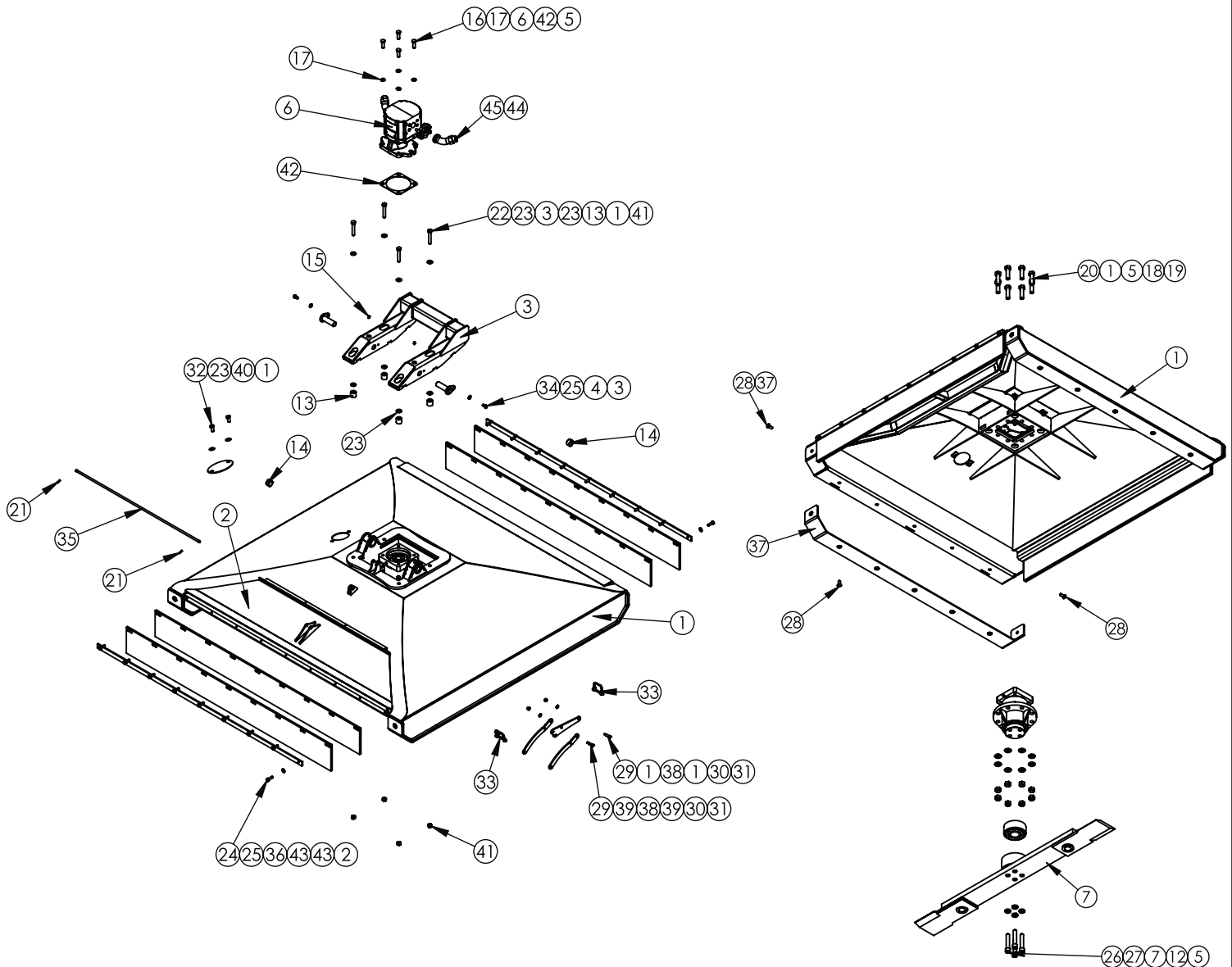
Notes: P/N 32120416

ASY, CUTTERSHAFT KNIFE MD, P/N 32120416

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	02999798	WLDMNT, CUTTERSHAFT	1
2	02991091	D-RING, SHORT	22
3	02975613	BLADE SERRATED	44
4	7190088	HHCS 7/16 X 3-1/4 GR8	22
5	0141004	7/16 UNF STANDARD CLEVELOK NUT	22

ASY, ROTARY 60 INCH, P/N 32120530

RMB 180/165
Rear Mounted Boom



Click on the model to rotate

Notes: P/N 32120530

ASY, ROTARY 60 INCH, P/N 32120530

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	32120610	WLDMT, DECK, 60IN ROTARY	1
2	32120611	WLDMT, DOOR, 60IN ROTARY	1
3	32120612	WLDMT, HITCH, 60IN ROTARY	1
4	32120614	WLDMT, SWIVEL PIN, ROTARY	2
5	02968859A	ASSEMBLY, SPINDLE HOUSING-SPLINED	1
6	02999695	MOTOR, GEAR, 87CC	1
7	32120613	WLDMT/ASSY, BLD BAR, ROTARY	1
8	00020900	NUT, SLOTTED, HVY, 1-1/8NF PL GR5	1
9	00023200	PIN, ROLL, 3/16x1-3/4	1
10	02957089	HEAVY, L/W, 1-1/8 YZ PLATED	1
11	02782900	BOLT, BLADE	1
12	32120586	ROUND, BLADE SPACER, ROTARY	1
13	32120602	SPRING, BLK POLY 80A, 0.6X1X1	4
14	02963467	CONNEX BUSHING, 1 1/4 X 1 X 3/4	4
15	00752670	GREASE FITTING 1/4-28 BOLT THD	2
16	02892000	HHCS 1/2NC 1-1/2 LG PL8	4
17	00001300	HIGH ALLOY, L/W 1/2 YZ KG	4
18	5312316	FLATWASHER 3/4 HARDENED	8
19	00037200	NUT 3/4 NC LOCKNUT	8
20	02960521	HHCS 3/4 NC 2-3/4 PL8	8
21	99338S	PIN ROLL 1/4 X 3/4	2
22	02990307	HEX, TAP, 1/2"NC X 3", ZP, GR5	4
23	00759635	FLATWASHER, 1/2 HARDENED	10
24	00753642	HHCS 3/8 NC 1-1/4 PL5	18
25	00011100	FLATWASHER 3/8 STD	20
26	02964861	SHCS 3/4 NC 4" LG PL8	4
27	00003901	LOCKWASHER, 3/4, HVY, PL	4
28	32120562	FHCS, 1/2-13 X 1.25, ZC	14
29	32120560	BOLT, SHDLR, 3/8 X 7/8, ALLOY	2
30	32120609	WASHER 5/16 ID X .68 OD	2
31	32120563	NUT, TOPLOCK 5/16 - 18 UNC ZC	2
32	00750959	HHCS 1/2 x 1-1/2 NC GR5 PL	2

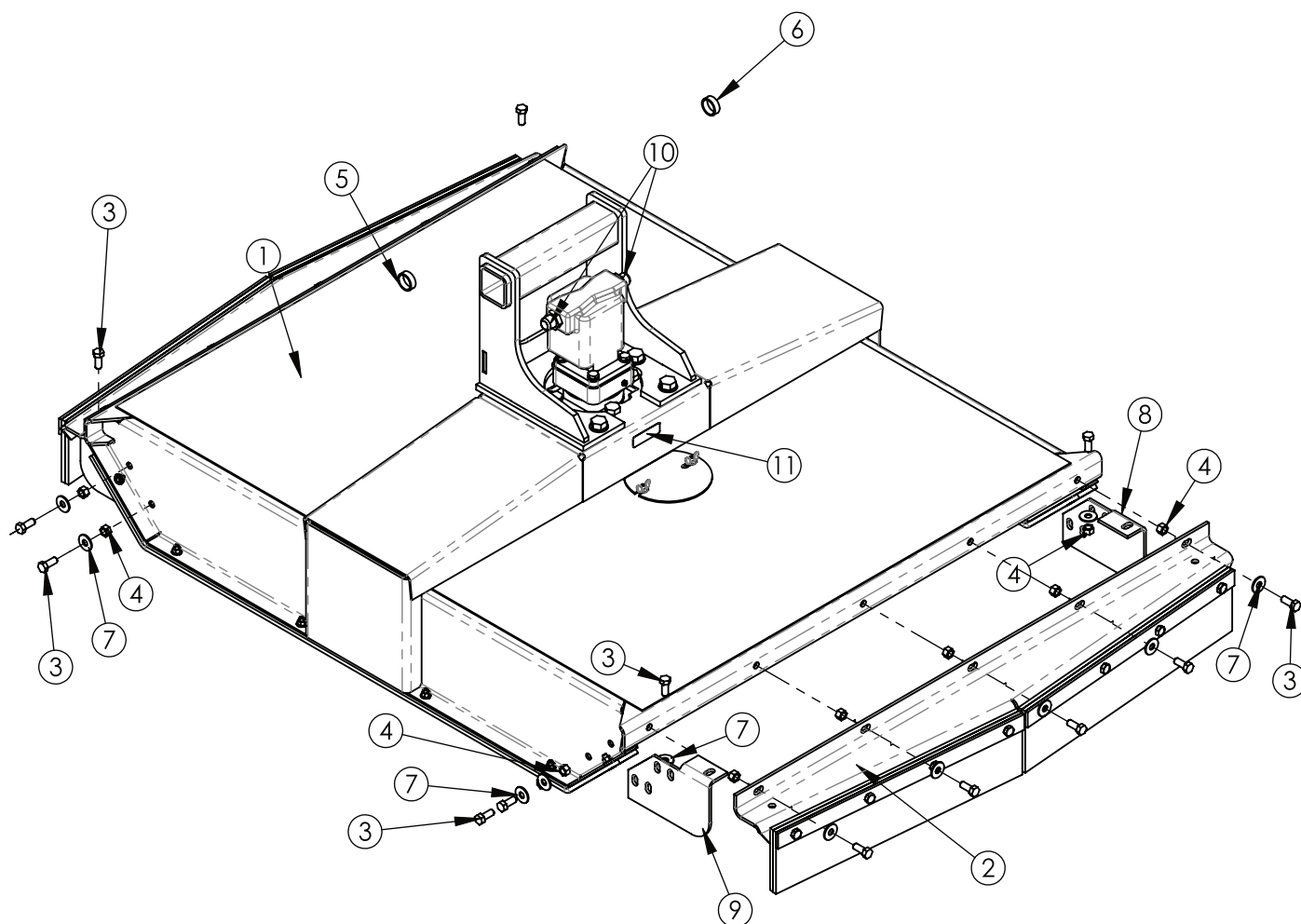
ASY, ROTARY 60 INCH, P/N 32120530

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
33	32120564	PIN, CLEVIS, 5/16 X 1 7/8 ZC	2
34	00002000	HHCS 3/8 NC 3/4 PL5	2
35	32120585	ROD, DOOR, ROTARY	1
36	32120597	SHEET, CURTAIN STAY, ROTARY	2
37	32120582	PLATE, SKID SHOE, ROTARY	2
38	32120568	PLATE, DOOR LATCH, ROTARY	1
39	32120569	PLATE, DOOR LINK, ROTARY	2
40	32120595	SHEET, ACCESS DOOR, ROTARY	1
41	00001800	LOCKNUT TLM 1/2 NC PLB	4
42	02961038	GASKET	1
43	32120594	RUBBER, DEBRIS DFLCTR, ROTARY	4
44	00749103	#20 SPLIT FLANGE KIT	2
45	02705100	ADP HYD ELBOW 24FL - 16MJ - 45	2

ASY,48" ROTARY W/ FLAPS-PA47/48
P/N 32121139

RMB 180/165

Rear Mounted Boom



Click on the model to rotate

Notes: P/N 32121139

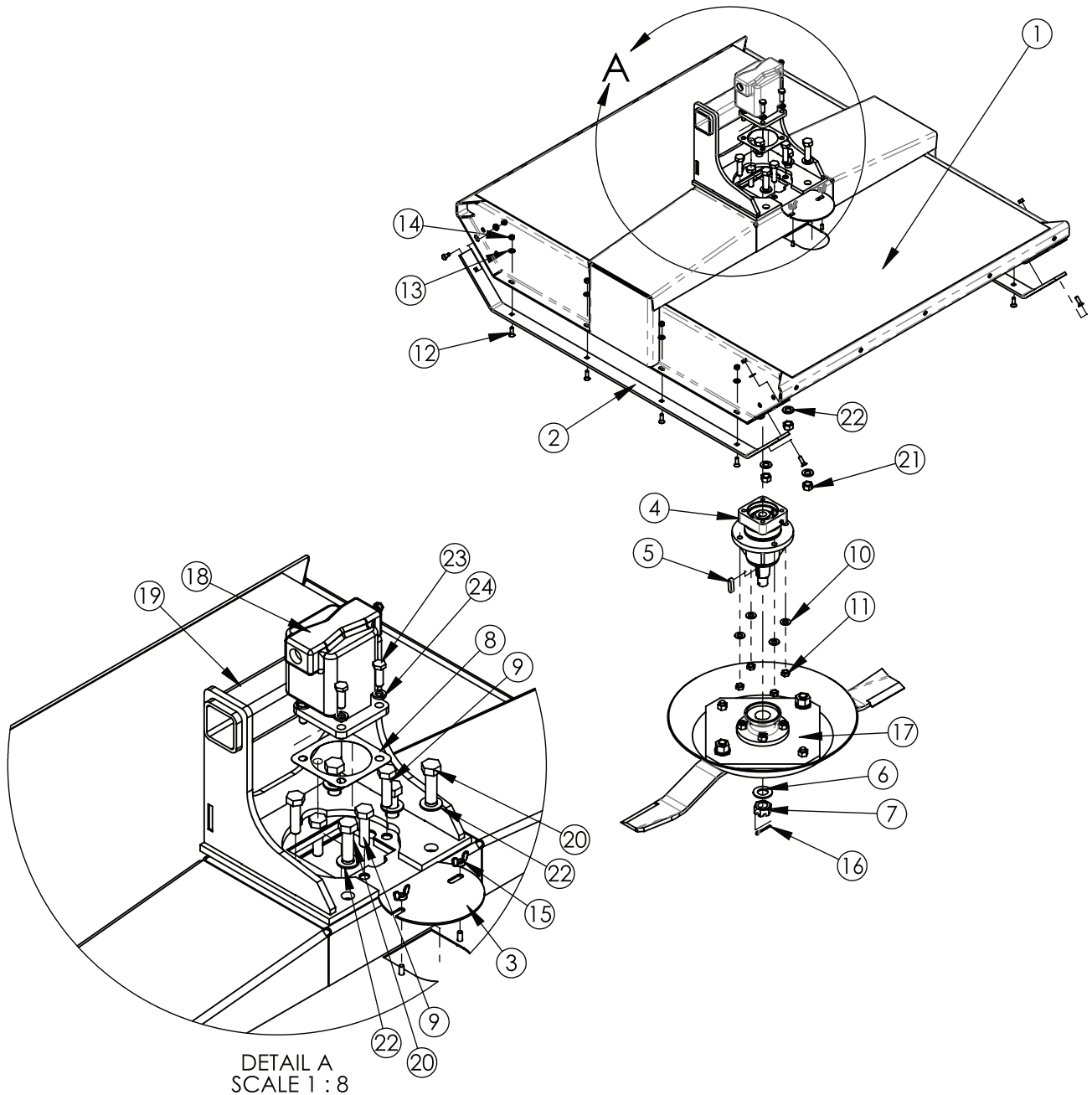
ASY,48" ROTARY W/ FLAPS-PA47/48 P/N 32121139

Item No.	Part No.	Description	Qty.
1	32121140	SUB ASY, CUTTERHEAD, PA92	1
2	02981458	ASSY, FLAP PA92 48 ROTARY	2
3	02030700	HHCS 1/2 NC X 1 1/4 PL GR5	22
4	00001800	LOCKNUT TLM 1/2 NC PLB	22
5	02968896	VINYL TAPE, BLUE, 1/2"	1
6	02968894	VINYL TAPE, RED, 1/2"	1
7	00002700	FLATWASHER, 1/2 PL STD	22
8	00775782	SHIELD C/G SIDE LH	2
9	00775554	SHIELD C/G SIDE RH	2
10	02964341	ADP, HYD 12MB - 12MJ ST	2
11	02995473	S/N TAG, AI PRODUCTS	1

SUB ASY, CUTTERHEAD, PA92
P/N 32121140

RMB 180/165

Rear Mounted Boom



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Notes: P/N 32121140

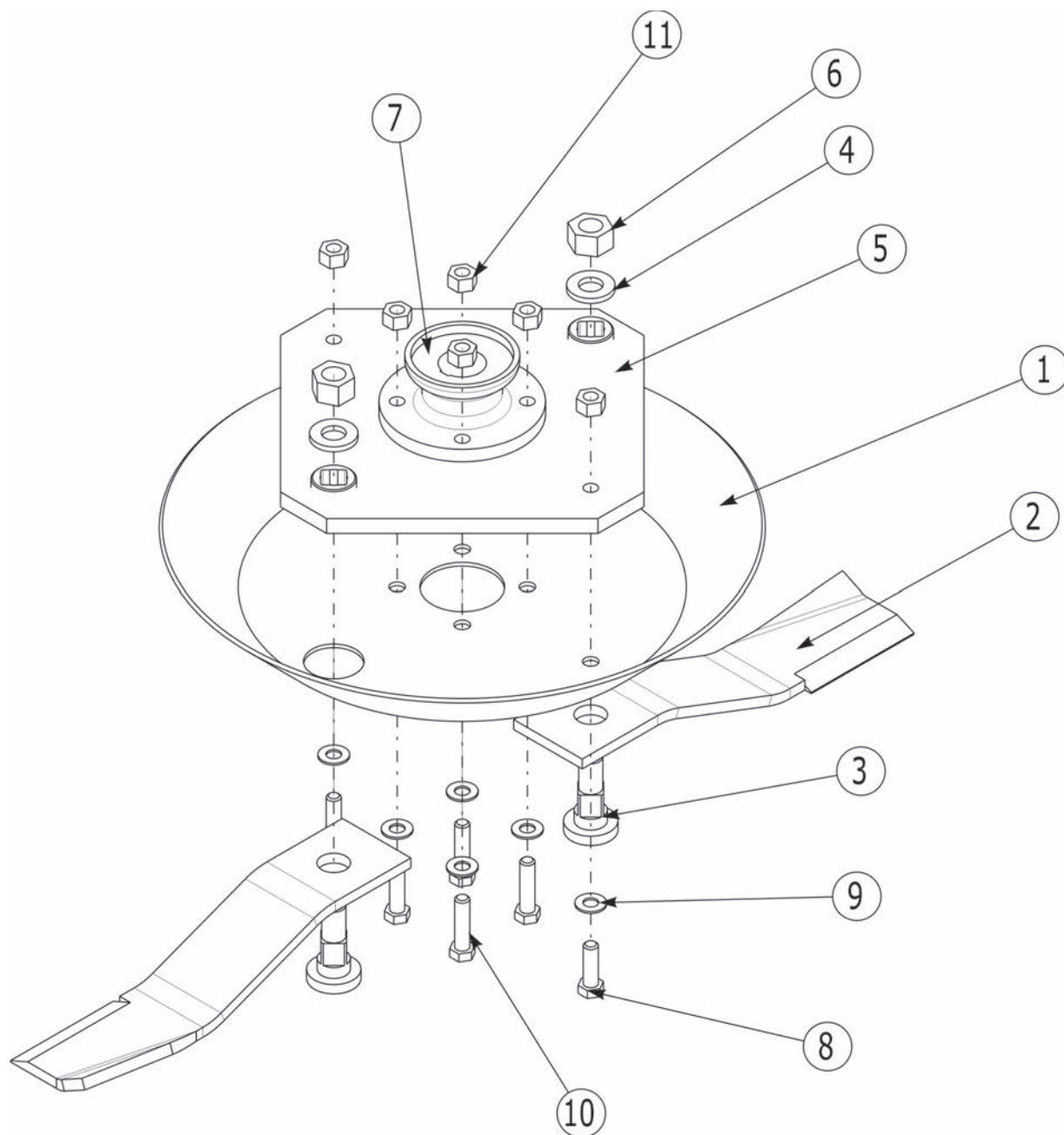
SUB ASY, CUTTERHEAD, PA92 P/N 32121140

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	02981362	WELDMENT, CUTTERHEAD, PA92 48" ROTARY	1
2	02981504	SKID SHOE, PA92, 48" ROTARY	2
3	5710121	PLATE, INSPECTION COVER	1
4	00763572B	ASY, SPINDLE	1
5	581037	KEY, 1/2 X 2-1/8, ROUNDED	1
6	15C2000	WASHER, 1.375 X 2.50 X .165, HARDENED	1
7	5D20120	NUT, HEX SLOTTED, 1-1/4 -12 NF PL	1
8	00763460	GASKET	1
9	00755082	HHCS 5/8 NC 2-1/2 PL8	4
10	00756077	WASHER, 5/8 HARDENED	4
11	00695100	LOCKNUT TOPLOCK 5/8NC PLC	4
12	00059700	FSCS 3/8 NC X 1-1/4	12
13	00011100	FLATWASHER 3/8 STD	12
14	00015800	LOCKNUT TLM 3/8 NC PLC	12
15	5F5180	NUT, 5/16 NC WING	2
16	00606000	PIN, COTTER 3/16 X 2 PL	1
17	02981775	ASY, PAN, PA92 48" ROTARY	1
18	02964305	MOTOR	1
19	32121134	WLDMT, PA92 TUBE HITCH	1
20	02963646	HHCS 3/4 NC 2-1/2 PL8	6
21	00037200	NUT 3/4 NC LOCKNUT	6
22	5312316	FLATWASHER 3/4 HARDENED	12
23	02892000	HHCS 1/2NC 1-1/2 LG PL8	4
24	00019600	LOCKWASHER, 1/2 HVY, PLATED	4

48" ROTARY CUTTER BLADE PAN ASSY
P/N 02981775

RMB 180/165

Rear Mounted Boom



Click on the model to rotate

Notes: P/N 02981775

48" ROTARY CUTTER BLADE PAN ASSY P/N 02981775

ITEM	PART NO.	DESCRIPTION	QTY
	02981775	BLADE PAN ASY COMPLETE	1
1	622012	PAN, BLADE CARRIER	1
2	02981680	BLADE, FAN, CW ROTATION	2
3	571044	BOLT, BLADE, 1-1/4-12 NF 2A LH	2
4	571045	WASHER, 1.03 X 2.00 X .25	2
5	622011	WELDMENT, BLADE CARRIER	1
6	5GL16140	LOCKNUT TLM 1 NF LH PL B	2
7	581036	HUB, BLADE	1
8	7AH5101816	HHCS 5/8 -18 NF 2 PL5	2
9	00756077	WASHER, 5/8 HARDENED	6
10	00749127	HHCS 5/8 - 18 NF 2-1/2 PL5	4
11	00749136	LOCKNUT TLM 5/8 NF PL B	6

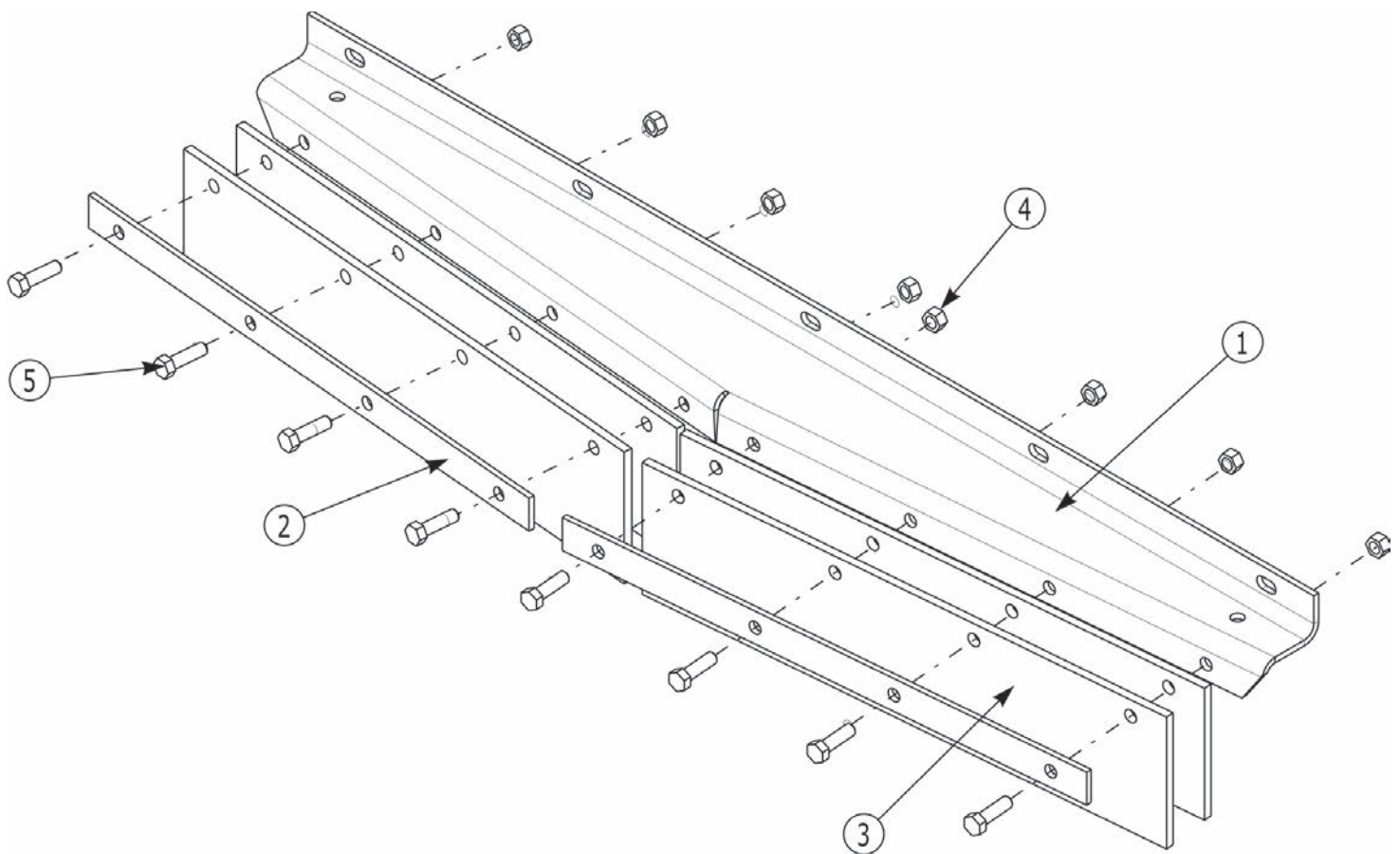
Note: Item # 3 & 6 blade bolt nut (P/N 5GL16140) torque to 300 ft. lbs. These are LH thread nuts.
Item # 8 & # 10 bolts torque to 135 to 145 ft. lbs.



48" ROTARY CUTTER DEFLECTOR FLAP ASSEMBLY

RMB 180/165

Rear Mounted Boom



Click on the model to rotate

Notes:

48" ROTARY CUTTER DEFLECTOR FLAP ASSEMBLY

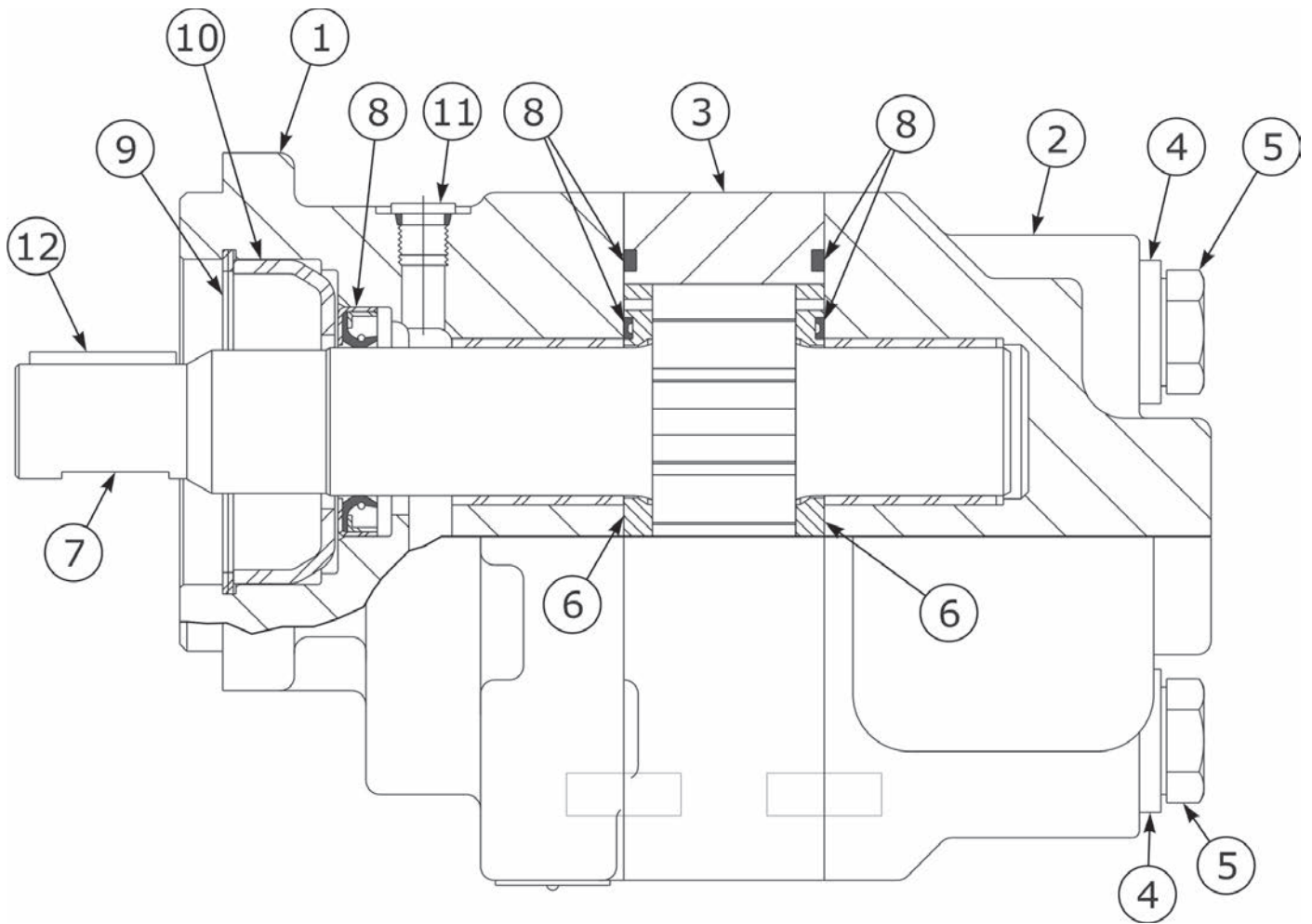
ITEM	PART NO.	DESCRIPTION	QTY
1	02981457	BRACKET, MOUNT, DEFLECTER, PA92, 48" ROTARY	1
2	02981505	STRAP, DEFLECTOR, PA92, 48" ROTARY	2
3	02981503	PANEL, DEFLECTOR, PA92, 48" ROTARY	4
4	00001800	LOCKNUT TLM 1/2 NC PLB	8
5	00749130	HHCS 1/2 -13UNC 1 3/4 PL5	8

Note: Items # 4 & 5 torque 25 to 30 ft. lbs. As this is a rubber flap and two layers thick, DO NOT torque so tight as to distort the rubber flap between the metal pieces. Use only enough torque to tighten the bolt and locknut securely.

ASY, 48" Rotary Cutter Motor Assy
P/N 02964305

RMB 180/165

Rear Mounted Boom



Click on the model to rotate

Notes: P/N 02964305

ASY, 48" ROTARY CUTTER MOTOR P/N 02964305

ITEM	PART NO.	DESCRIPTION	QTY
	02964305	HYDRAULIC MOTOR M330A 3.94CID	1
1	02964933	FLANGE- MOTOR MTG	1
2	02964934	HOUSING	1
3	02962205	GEAR HOUSING	1
4	02961917	WASHER	4
5	02962208	CAPSCREW	4
6	02964939	KIT- MAJOR SEAL	1
7	02964937	SET-GEAR SHAFT	1
8	02964938	KIT-MINOR SEAL	1
9	02962210	SNAP RING	1
10	02964940	SPACER	1
11	02961940	PLUG HEX SKT HD 4MB	1
12	02964956	KEY- .25 X .25 X 1.25 LONG	1

Note: 02964939 Major seal kit consists of items #6 and #8.



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