



GLOBAL M3/MX3

Parts Manual

Mechanical Sweeper
JANUARY 2016

Manual GS248200
Revision A



1st Ed
2016

GLOBAL **MER/MX3**
Parts Manual

Manual GS248200 Mechanical Sweeper
Revision A JANUARY 2016



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pn: GS248200, JAN. 2016

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Record of Changes MX3 PARTS MANUAL

Revision Letter	Date	Description	Change Page
A	6/5/14	First Edition Release	

Note: Use log sheet to keep a current record of revision pages inserted in manual.

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Introduction

The information contained in this manual will help you better understand the operation of the GLOBAL Mechanical sweeper. The Global MX3 Series sweeper represents the highest grade of craftsmanship and reliability that makes Global a world leader in sweeper technology. Careful attention to proper operating procedures will ensure efficient operation, maximum performance and total customer satisfaction.

How to Use This Manual

- Keep this manual in the cab buddy seat compartment as a permanent and convenient reference.
- Throughout this manual, you will find **WARNINGS**, **CAUTIONS**, and **NOTES**.
 - The **WARNINGS** reminds you to be especially careful to avoid possible personal injury.
 - The **CAUTIONS** are given to prevent you from making an error that could damage the sweeper or cause personal injury.
 - The **NOTES** are suggestions that will help you make full use of the sweeper.
- A thumb tabbed quick reference guide is located on the title page of manual to assist you in locating a desired function.
- Procedure titles and chapters are positioned in margins for easy reference while flipping through the manual.

Important Information

All information in this manual is based on the latest product information available at the time of printing. Due to improvements in design, performance and reliability, there may be minor discrepancies between actual vehicle and the contents of this manual. Global Environmental Products reserves the right to make changes at any time without notice and without incurring any obligation to make such changes to products manufactured previously. No liability can be accepted for any inaccuracies or omissions in this publication, although every endeavor is made to ensure that information contained in this manual is correct.

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Service Assistance

To better serve you, the following information will be needed during a service call.

1. Name and address.
2. Complete model and serial number.
3. Description of procedure, function or problem.

Global Environmental Products Inc.

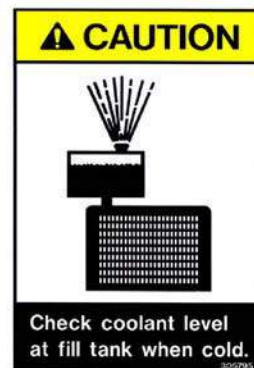
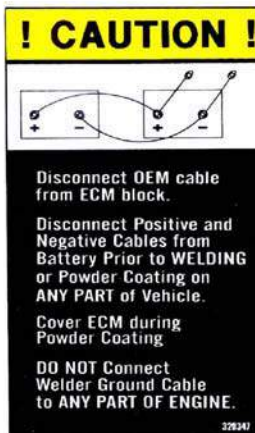
5405 Industrial Parkway
San Bernardino, CA 92407 USA
Tel.: 1 (909) 713-1600
Fax: 909 713 1613
E-Mail : info@globalsweeper.com
Web: www.globalsweeper.com

NOTE: The identification nameplate is located inside the operator's cab on the right side - wall below the companion seat.

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Safety Decals

Safety must always be the operator's utmost concern and responsibility. The operator must read and understand this manual and all safety decals on the sweeper before operating the vehicle. Failure to follow these safety precautions could result in damage to the equipment and/or personal injury or death. Decals are designed and installed on the sweeper for your protection. They are placed at appropriate areas on the sweeper to be constant reminders of the ever-present dangers. KNOW and ADHERE to the information they provide.



SAFETY INSTRUCTIONS

1. Before starting and operating this machine, read and thoroughly understand operators manual and additional warnings.
2. This unit must be operated with care due to tight turning radius and high center of gravity.
3. **WEAR YOUR SEATBELT AT ALL TIMES.**
4. Dump only on level surfaces away from power lines and building structures.
5. Do not drive unit with hopper raised.
6. Use approved method for servicing tires.

320944

ENGINE COOLANT NOTIFICATION

1. Engine cooling system is filled with a 50% Antifreeze to 50% Distilled Water mixture at time of manufacture.
2. A 50/50 mixture helps protect engine during **NORMAL** operating conditions.
3. If operating engine at **EXTREME** temperature conditions, consult manual and/or manufacture for coolant mixture recommendations.

313880

CAUTION

Do not Weld on Hopper. Inside of Hopper Polyurethane Coated.

320519

VEHICLE WARM UP PROCEDURE

IT IS RECOMMENDED THAT A SHORT WARM UP PERIOD BETWEEN 10 AND 15 MINUTES BE PART OF THE PRE-OPERATING PROCEDURES FOR THIS VEHICLE. THIS WARM UP PERIOD WILL ALLOW THE OIL IN THE HYDROSTATIC DRIVE SYSTEM TO REACH THE DESIRED TEMPERATURE AND CONSISTENCY FOR SAFE AND SMOOTH OPERATION.

320742

SPRAY BAR WATER FILTER

SERVICE EVERY 800 HOURS

323312

ATTENTION

ALL WHEEL LUGNUTS ARE RIGHT HAND THREADS.

325919

Do not exceed 2200 RPM while sweeping

315792

Raise Step To Closed Position Before Driving

317712

WARNING

Turn off all sweeping functions before shutting engine off.

326429

CAUTION!

After starting engine, **PAUSE** momentarily before shifting.

325497

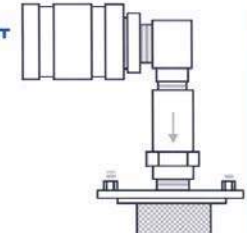
ATTENTION!

GREASE CAVITY DAILY.



325202

HYDRANT FILL



WATER FILL

Remove Strainer and Clean Weekly

P/N 324722

WATER PUMP MANUAL PURGE

CAUTION! REMOVE KEYS FROM IGNITION PRIOR TO PURGING.

LIFT and HOLD SWITCH UNTIL PUMPS HAVE EMPTIED.



325423



Safety Precautions

The safety precautions listed in this manual and on the sweeper are not all-inclusive. Anyone using service procedures, methods, or tools, whether or not recommended by Global Environmental Products, Inc. must satisfy himself thoroughly that neither personal safety nor vehicle safety will be jeopardized by the service methods or tools selected. Remember, your ability as a professional operator is critical to ensuring your safety and that of others around you.

Always follow local and state traffic laws. Drive defensively—the other driver may be wrong, but it is better to avoid collisions of any kind. Carefully study the following safety related operating suggestions.

1. **Always** fasten seat belts.
2. Always drive at a safe speed. **Slow down** for curves and downgrades.
3. Be extremely **careful** when maneuvering around parked cars.
4. **Never** make sudden starts, stops or turns.
5. Be very **careful** when backing up sweeper.
6. **Do not** use sweeper for towing.
7. **Never** operate sweeper with a known hydraulic leak. Repair leak immediately.
8. Check sweeper daily for hydraulic leaks.
9. **Avoid** sweeping near bystanders or in congested areas eliminating possible injury caused from sweeper brooms throwing debris.
10. If elevator becomes jammed, turn **off** elevator drive motor and **stop** engine before proceeding to clear debris.
11. **Do not** overload sweeper.
12. Whenever a mechanic, operator, inspector or any other person needs to perform work under a raised hopper, **stop** engine and **install both safety props**. **Do not** stand under raised hopper with engine running.
13. **Never** use a hydraulic cylinder or hydraulic mechanical mechanism to lift another object or part.
14. **Never** leave sweeper unattended with engine running and/or ignition key in vehicle.
15. Be certain sweeper is parked in a position allowing hopper to **clear** container before dumping hopper.
16. Be sure sweeper is parked on **level ground** and bystanders are **clear** before dumping hopper.
17. Stay **clear** of electrical power lines and other overhead obstructions to prevent injury or property damage when dumping hopper.
18. **Always** cover battery terminals during maintenance to prevent electrical short.
19. When operating at slow speed or whenever sweeper may cause traffic problems, operate beacon and rear flashers lights.
20. **Never** step on either gutter broom for any reason. Serious injury may result. Use provided step plates located on right front bumper and handle to enter cab.

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Safety Summary

The following safety measures are essential and must be observed when servicing, repairing, or maintaining the Global MX3 Series sweeper.

- JACK STANDS & CHOCKS** - Before jacking the vehicle, or releasing or adjusting the parking brake on a stationary sweeper, **always** chock the wheels. **Always** use safety (jack) stands when using hydraulic jacks or hoists to raise the vehicle. **Do not** rely on either the jack or the hoist to hold the load.
- SAFETY GLASSES** - Safety glasses **must** be worn when using tools such as hammers, chisels, pullers and punches. Always wear safety glasses when working on the hydraulic system.
- WELDING** - Wear welding gloves and goggles when welding or using an acetylene torch. Make sure that a metal shield separates the acetylene and oxygen bottles, both of which must be chained to a cart. **Do not** weld or heat areas near fuel tanks or fuel lines. Utilize proper shielding around hydraulic lines. **CAUTION: Disconnect battery terminals prior to welding.**
- WORK AREA** - Organize your work area and keep it clean. To prevent slips and falls, promptly wipe clean any oil spills. Keep all tools and parts off the floor. After servicing the sweeper, reinstall all safety devices, guards and shields. Before starting the engine or moving the sweeper, check to make sure that all tools and servicing equipment are removed from the engine area.
- CLOTHING & JEWELRY** - Wear close fitting clothing appropriate for the job. Use sturdy work shoes and rough-soled. Bare feet, sandals, or sneakers are **not** acceptable foot wear when adjusting and/or servicing the sweeper. **Do not** wear rings, wrist watches, neck chains, or loose-fitting clothing when working on the engine. Any of these items could catch on moving parts, causing serious injury.
- COMPRESSED AIR** - To avoid serious injury or death, **do not** apply compressed air to any part of the body or clothing. Use only approved air guns that do not exceed 30 psi (**207 kPa**). Always wear safety glasses or goggles. Use proper shield to protect everyone in the work area.
- PRESSURIZED FLUIDS** - Be extremely careful when dealing with fluids under pressure. Fluids under pressure can have enough pressure to penetrate the skin. These fluids can infect a minor cut or opening in the skin. If injured by escaping pressurized fluids, see a doctor at once. Serious infection or reaction can result without immediate medical treatment.

When opening the radiator cap, always remove the coolant pressure control cap slowly, and only when the coolant is at room temperature. A sudden release of pressure from a heated cooling system can result in possible personal injury from the expulsion of hot coolant.

Always use extreme caution while inspecting or working on the pressurized hydraulic systems. **Do not** attempt to look for hydraulic leaks without hand and eye protection. Oil can shoot from a pinhole in a fine jet at a velocity that can penetrate the skin and cause severe injury. **Never** attempt to block the oil flow with your hands or fingers.

Safety Summary

- ❑ **DIESEL FUEL** - Diesel fuel is highly flammable. Take extra precautions to avoid personal injury. **Do not** smoke when fueling the vehicle, or when servicing the engine or the fuel system. Store diesel fuel and other flammable fluids away from fire hazards.
- ❑ **HOT EXHAUST** - Engine produces extremely hot exhaust gases (*over 1200 degrees F*). To prevent the possibility of serious burns, always allow the engine and exhaust system to cool to ambient temperature before working on or servicing the engine or exhaust system. Engine exhaust fumes can cause sickness or death. **Do not** run engine in an enclosed area without exhaust pipe extension.
- ❑ **BATTERIES** - Electrical batteries give off highly explosive and flammable hydrogen gas when charging, and continue to do so for some time after receiving a steady charge. **Do not** smoke or allow an open flame or spark near the batteries - an explosion may result. Prevent battery explosions. Do not charge a frozen battery; it may explode. Warm battery to 16 degrees C (*60 degrees F*). Prevent acid burns. Avoid contact with sulfuric acid in battery electrolyte. Wear proper eye protection and wear rubber gloves when handling battery. Use voltmeter or hydrometer to check battery charge. To avoid the possibility of electrical shock, always remove the battery ground cable before working on the electrical system.
- ❑ **FIRE EXTINGUISHER** - Always keep a charged fire extinguisher within reach while working on or servicing the vehicle. Make sure the extinguisher is the correct type for the situation: a Type A extinguisher is for wood, paper, textiles and rubbish (*as might be found in the sweeper hopper*); a Type B extinguisher is for flammable liquids such as solvents; and a Type C extinguisher is for electrical equipment.
- ❑ **HOPPER & ELEVATOR SAFETY** - A combination of a hydraulic system and an elevatable, heavy hopper present several safety concerns. The following cautions must be taken to avoid personal injury or damage to equipment:
 1. **Do not** raise the hopper unless the sweeper is parked on firm, level ground.
 2. Before raising the hopper, make sure that the vehicle is clear of overhead electrical power lines or other obstructions such as trees.
 3. Make sure that bystanders are well clear of the sweeper before dumping.
 4. Before working beneath a raised hopper, **always** install the safety props on both hopper cylinder rods. The safety props rest on the top edge of the cylinder body, positioned around the cylinder rod to keep the hopper from falling in the event of a hydraulic failure. **Never** position yourself beneath the hopper while installing or removing the safety props.
 5. **Always** stay clear of the running elevator while making adjustments. The moving equipment can easily grab clothing and cause personal injury.



CHAPTER

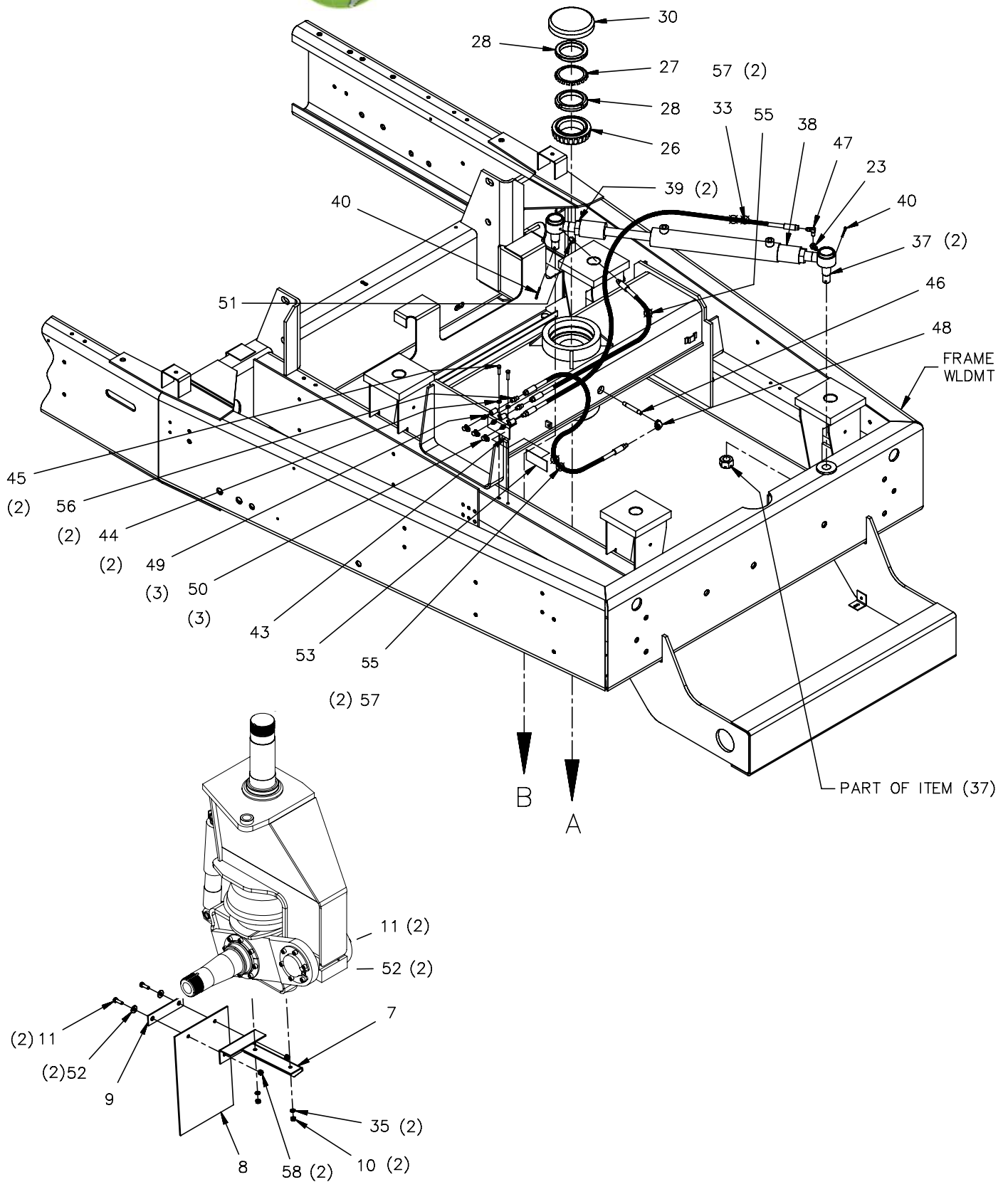
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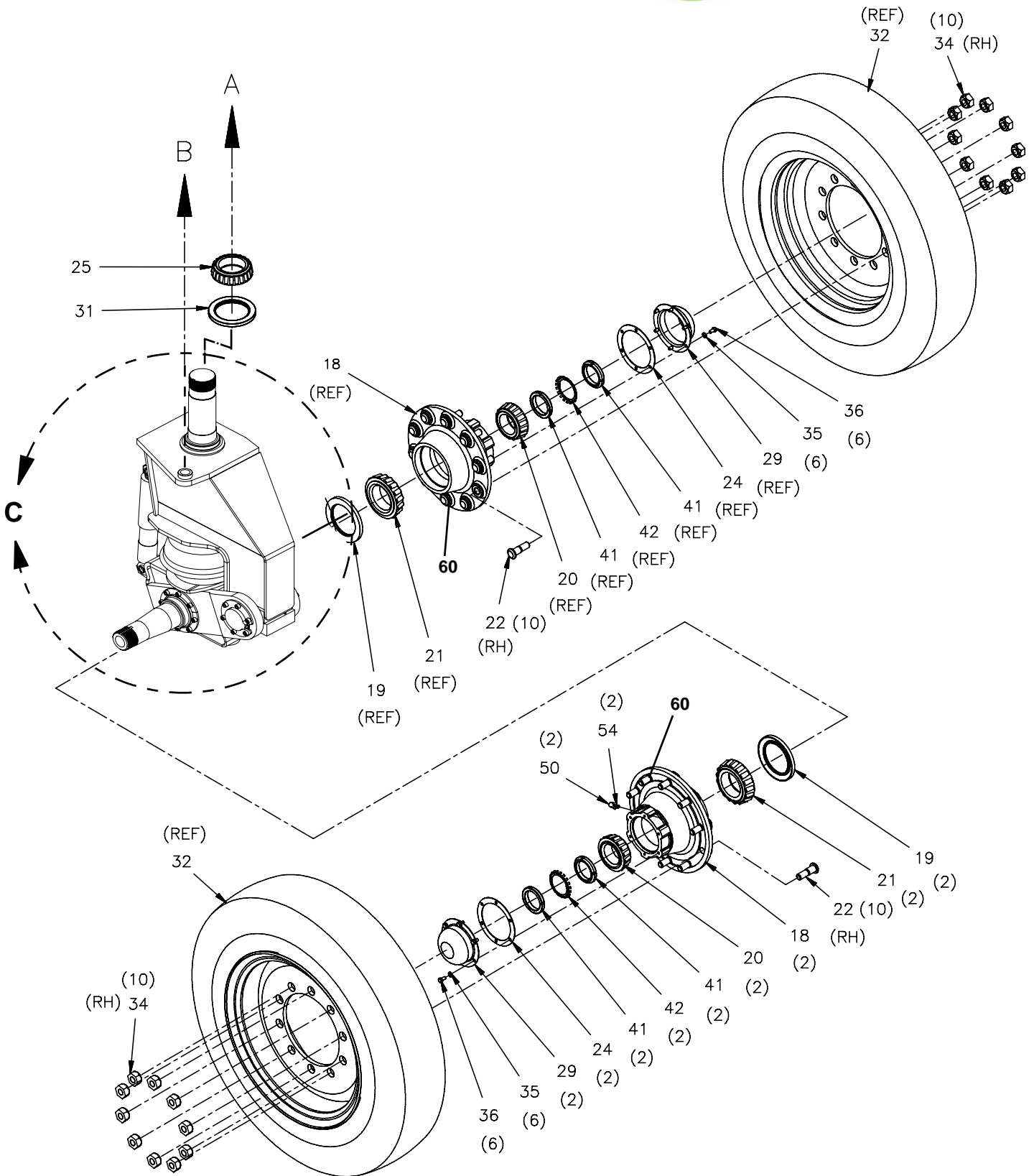
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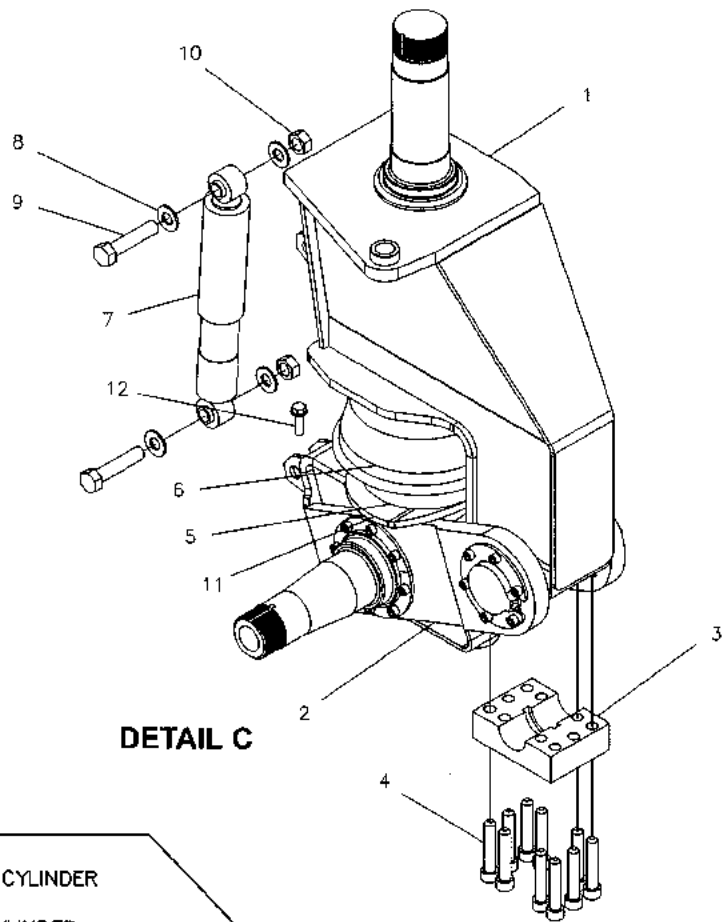
Group--Suspension/Brakes/Drive

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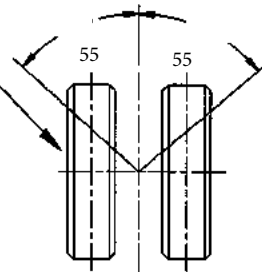
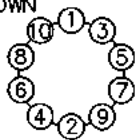






DETAIL C

8. POWER STEERING 50' AS SHOWN:
7. ADJUST ASSEMBLED LENGTH OF HYDRAULIC CYLINDER (ITEMS 13, 24 AND 25) AS FOLLOWS:
WITH FRONT SUSPENSION AND HYDRAULIC CYLINDER INSTALLED IN THE FRAME, ROTATE FRONT SUSPENSION UNTIL THE HYDRAULIC CYLINDER IS FULLY EXTENDED. ADJUST EXTENDED LENGTH OF THE HYDRAULIC CYLINDER TO OBTAIN .12 INCH CLEARANCE BETWEEN THE CYLINDER ROD AND THE SPINDLE HOUSING. TIGHTEN THE LOCK NUTS.
6. USE PROPER ROTATION FOR TIGHTENING NUTS AS SHOWN IT IS VERY IMPORTANT THAT THE 1st AND 2nd NUTS TIGHTENED ARE PROPERLY SEATED IN THE DISC BEFORE TIGHTENING THE OTHERS. AFTER ALL HAVE BEEN TIGHTENED, EACH NUT SHALL BE TORQUED.
5. ALL WHEEL NUTS SHALL BE TIGHTENED TO 300-350 FT LBS. BEFORE ANY WEIGHT IS PUT ON THE WHEEL.
4. TORQUE THE ADJUSTING NUT TO 50 LBS-FT WHILE ROTATING THE WHEEL HUB. INSTALL ITEMS 41, 42, 24, & 29 AS SHOWN.
3. PACK HUB HOUSING WITH UNOLIFE GREASE 2 OR EQUIVALENT.
2. BACK OFF THE ADJUSTING NUT ONE FULL TURN OR UNTIL LOOSE.
1. TORQUE THE ADJUSTING NUT (ITEM 41) TO 250 LBS-FT TO SEAT THE BEARING COMPONENTS. ALWAYS ROTATE THE WHEEL HUB WHILE TORQUING THE NUT TO ENSURE THAT THE BEARING ROLLERS ARE FULLY SEATED AGAINST THE BEARING RACE.



ASSEMBLE HUBS AS SHOWN, DO NOT INSTALL ITEMS 42, 24 & 29 AT THIS TIME.

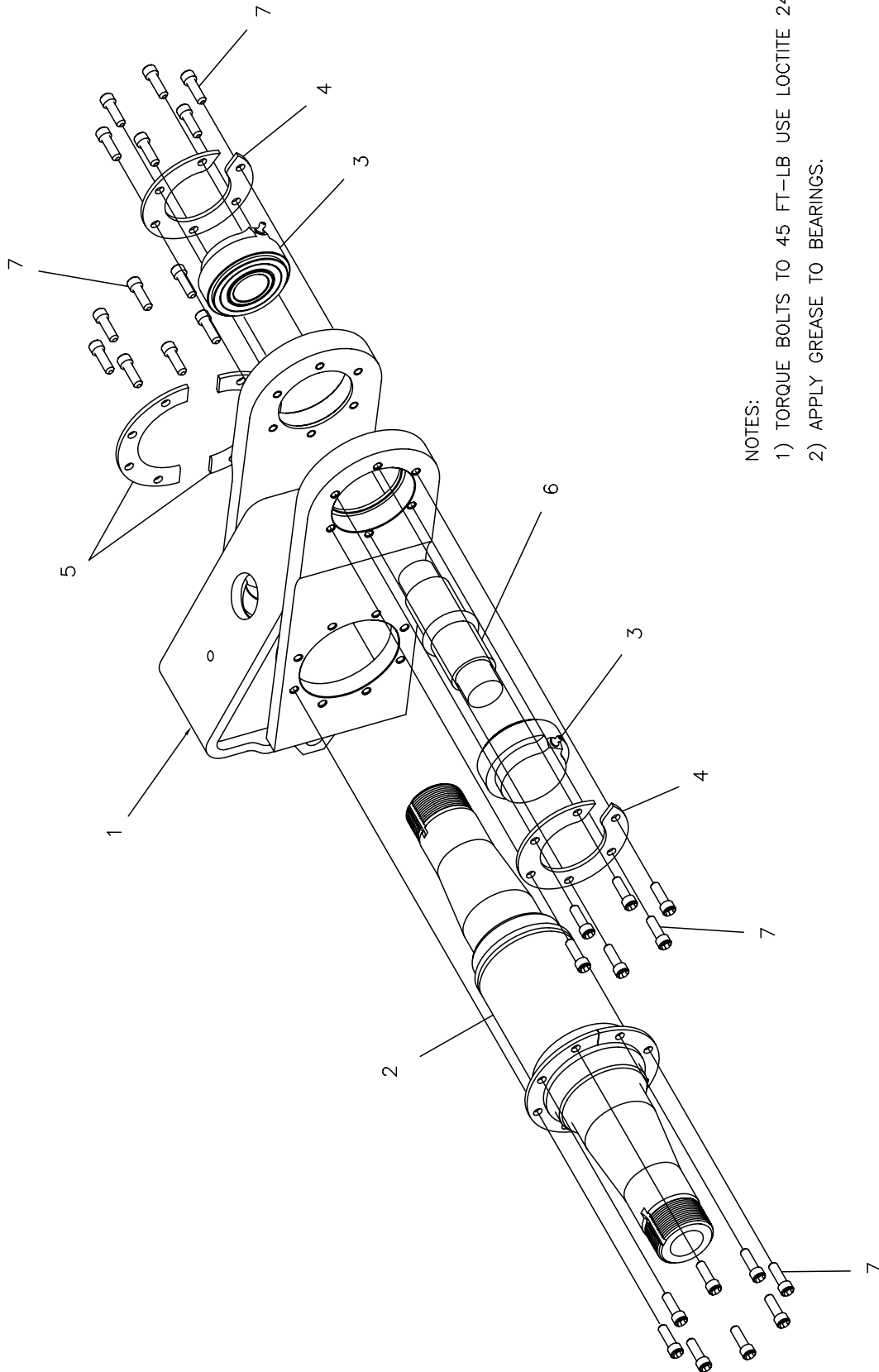
WHEEL BEARING ADJUSTMENT.





**Suspension
Brake/Drive**

Item Pt No.	Description	Qty	Item Pt No.	Description	Qty
-	A323460 Front Suspension Installation Rev 3J		50	311745 Caplug-Grease Fitting	5
1	382517 Upper Assembly	1	51	325335 Reducer, 1/8 Npt X 1/4-28 Zerk	1
2	382516 Lower Assembly	1	53	325337 Decal, Remote Grease	1
3	382519 Block	1	54	024190 Zerk Fitting, Long (1/4-28)	2
4	382520 5/8 Shcb	10	55	325338 Hose Assy 3/16 Id X 17.5 Cut	2
5	382521 Rubber Spring	1	56	034548 Adapter, Mj-Mp-4-2	2
6	382522 Restrictor Can	1	57	608881 Cable Tie	4
7	382523 Shock	1	59	382528 Bolt 3/8 Nc X 1,75	1
8	382524 Washer Flat 3/4 Id X .125 Thk	4	60	248222 Wheel Spacer	2
9	382525 Bolt 3/4 Nc X 1/8 3,5	2			
10	382526 Nut 3/4	2			
11	382527 Spring Plate	1			
12	323555 Scr-Hx Hd 3/4-10 X 3.5Lg Gr#8				
13	323556 Hex Lock Nut, 3/4-10 Gr. C				
14	323557 Washer Flat 3/4 Id X .125 Thk				
15	323558 Can Restrictor				
16	321008 Rubber Spring, #10				
17	323559 Shock Absorber				
18	324774 Hub-Wheel Rework	2			
19	323498 Seal- Front Susp	2			
20	323493 Bearing-Outer	2			
21	323492 Bearing-Inner	2			
22	323729 Stud-Wheel, (Rh)	20			
23	325336 Reducer 90-1/8Npt X 1/4-28Zrk	1			
24	323451 Gasket- Hub Cap	2			
25	300424 Bearing Cone	1			
26	300422 Bearing Cone	1			
27	300427 Lock Washer	1			
28	300426 Lock Nut	2			
29	323448 Cap- Grease	2			
30	035661 Cap Dust Rr Spdl	1			
31	300428 Seal-Grease	1			
32	326952 Wheel/Tire Assy,10R17.5-Michln				
33	325339 Hose Assy 3/16 Id X 41.0 Cut	1			
34	021008 Nut- Lug R H	20			
35	030373 Washer- Loc Split Plt 5/16 Gr8	12			
36	034800 Scr-Hx Hd,Plt,5/16-18X5/8 Gr8	12			
37	323415 Socket Assy, Rh Thd	2			
38	323384 Hyd Cyl,2"Bore,1"Rod,11.75 Stk	1			
39	039734 Nut-Jam, 1-1/8-12, Gr8	2			
40	10866-4 Pin-Cotter, 5/32 X 1-1/2	2			
41	021001 Locknut	4			
42	021002 Lockwasher	2			
43	325223 Bracket, Grease Fitting Wldmt	1			
44	030643 Washer- Loc Split Pltd 1/4 Gr8	2			
45	033125 Scr- Hx Hd Pltd 1/4-20 X 1 Gr8	2			
46	245924 Nipple 1/8 Npt X 3 Galv	1			
47	033925 Elbow, Mj-Mp90-4-2	1			
48	030230 Elbow, 1/8 Fpt90, Galv	1			
49	030287 Zerk, Tapered 1/8 Npt (#1610)	3			



NOTES:

- 1) TORQUE BOLTS TO 45 FT-LB USE LOCTITE 242.
- 2) APPLY GREASE TO BEARINGS.



**Suspension
Brake/Drive**

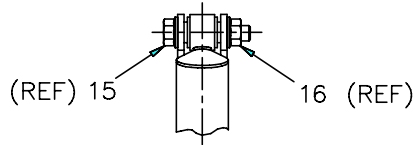
Item Pt No.	Description	Qty
- A382516	Lower Assembly, Front SuspeRev.A	
1	382529 Upper Assembly	1
2	382530 Shaft Assembly	1
3	382531 Bearing Assembly	2
4	382532 Shaft Retainer	2
5	382533 Shaft Flange	2
6	382534 Pivot Pin	1
7	382535 3/8 -16 X 1,0 SHCS	28

Item Pt No.	Description	Qty
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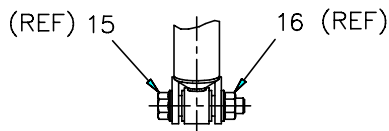
NOTES
NOTES

UPPER SHOCK MOUNT



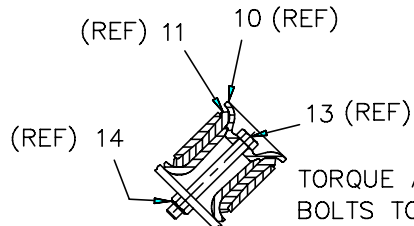
TORQUE ALL SHOCK
ABSORBER NUTS &
BOLTS TO 175 FT/LBS.

LOWER SHOCK MOUNT



TORQUE ALL SHOCK
ABSORBER NUTS &
BOLTS TO 175 FT/LBS

SHOCK ABSORBER MOUNTING



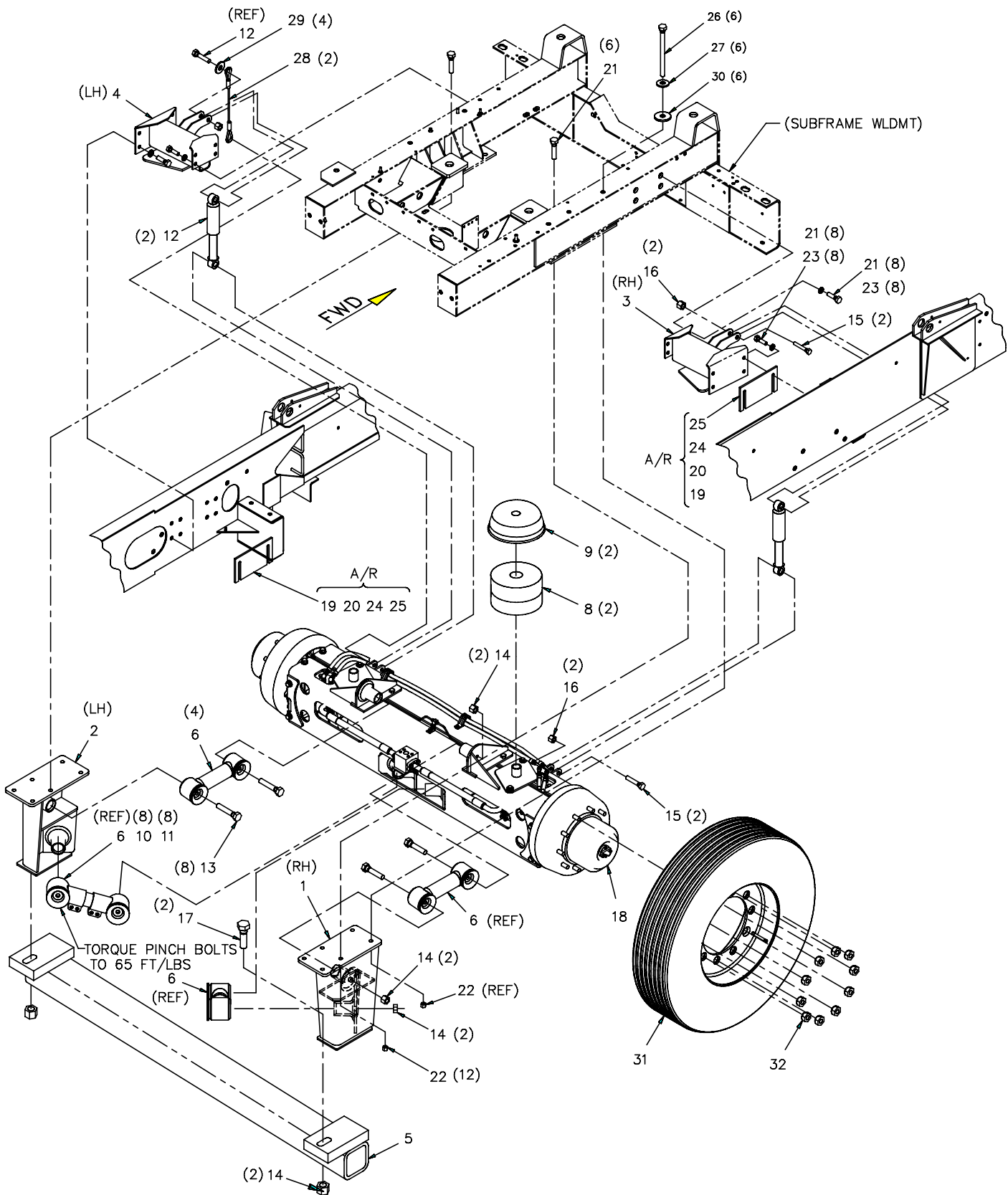
TORQUE ALL JOINT
BOLTS TO 135 FT/LBS.

SECTIONED TORQUE ROD JOINT

5. ITEMS 1 THRU 17 ARE SUPPLIED IN 323403 KIT, REAR AXLE REF.
4. MOUNTING HEIGHT MAY VARY SLIGHTLY DUE TO DIFFERENT AXLE HOUSING SECTIONS.
3. USE E7018 WELDING ROD OR EQUIVALENT FOR ALL AXLE WELDS.
2. DO NOT USE PETROLEUM BASED PRODUCTS (ie. GREASE OR OIL) USE TIRE SOAP AS A TORQUE ROD INSTALLATION LUBRICANT. TO ASSIST WITH THE INSTALLATION OF THE TORQUE RODS.
1. ASSEMBLE PER ES 057.

NOTES, UNLESS OTHERWISE SPECIFIED:

Rear Suspension Installation





Rear Suspension Installation

CHAPTER 1

Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	323404	Rear Suspension Inst. FS	*E Ref	380845		Spigot Cap – #1 Joint	8
1	323288	Frame Hanger Assy, RH	0	380846		Torque Rod Bushing – #1 Joint	8
2	323287	Frame Hanger Assy, LH	0	380847		Shock Absorber/Rebound Stop	2
3	321010	Upper Spring Plate RH	0	380848		Hex Cap Bolt–5/8–11x5, Gr8	8
4	321000	Upper Spring Plate LH	0	323618		Hex Cap Bolt–5/8–11x2 Gr C	2
5	380925	Crossmember WEldment, Rework	0	380849		Stover L/Nut–5/8–11, Gr C	8
6	380841	Torque Rod–fixed	0	380850		Hex Cap Bolt–3/4–10x4, Gr8	4
7	380842	Torque Rod – Adjustable	0	380851		Stover L/Nut–3/4–10, Gr C	4
8	323560	Spring– Rubber #9	0	323211		Z–plate Wldmt, Rear Suspension	1
9	323748	Can Restrictor	0	323212		Channel Wldmt, Rear Suspension	1
10	380845	Spigot Cap – #1 Joint	0	323421		Plate– Spring	2
11	380846	Torque Rod Bushing – #1 Joint	0	323422		Plate– Tie	1
12	380847	Shock Absorber/Rebound Stop	0	380852		Hex Cap Bolt–5/8–11x1.5, Gr8	8
13	380848	Hex Cap Bolt–5/8–11x5, Gr8	0	380849		Stover L/Nut–5/8–11, Gr C	8
14	380849	Stover L/Nut–5/8–11, Gr C	0	033151		Scr– Hx Hd 1/2–13 X 1–1/2 Gr8	4
15	380850	Hex Cap Bolt–3/4–10x4, Gr8	0	323621		Stover L/Nut Blk–1/2–13, Gr C	4
16	380851	Stover L/Nut–3/4–10, Gr C	0				
17	323618	Hex Cap Bolt–5/8–11x2 Gr C	0	31	313797	Tire Set T/Less Stl Belt	Ref
18	323402	Drive Axle Assembly	1		313807	Wheel/Tire Assembly– Rear	2
19	322050	Shim Plate– Suspension, 3/8 Ss	1		313720	Wheel–v3rear, 8.25 X 22.5	1
20	315944	Shim Plate– Suspension	1		309123	Tire–tubeless 11r22.5 (Rear)	1
					308230	Valve – Tire – Tubeless	1
21	305399	Scr–hx Hd,Pltd,5/8–11x2 Gr8	22				
22	303051	Nut–lock,5/8–11 Gr C	12				
23	031146	Washer– Loc Split Pltd 5/8	16				
24	322051	Shim Plate– Suspension, 1/4 Ss	1	32	021008	Nut– Lug RH	20
25	322052	Shim Plate– Suspension, 1/8 Ss	1				
26	323629	Scr–hx Hd,Pltd,5/8–11x8 Gr8	6				
27	325489	Washer–flat 5/8” Extra Thick	6				
28	323535	Cable Assy, Axle Limit	2				
29	030517	Washer Flat Uss Plated 3/4	4				
30	030558	Washer Flat Uss Plated 5/8	6				
	323403	Rear Axle Kit, New Suspension	1				
	323288	Frame Hanger Assy, Rh	1				
	323287	Frame Hanger Assy, Lh	1				
	321010	Upper Spring Plate Rh	1				
	321000	Upper Spring Plate Lh	1				
	380835	Crossmember Assy	1				
	380841	Torque Rod–fixed	4				
	380842	Torque Rod – Adjustable	1				
	323560	#9 Spring–rubber	2				
	323748	Can Restrictor	2				



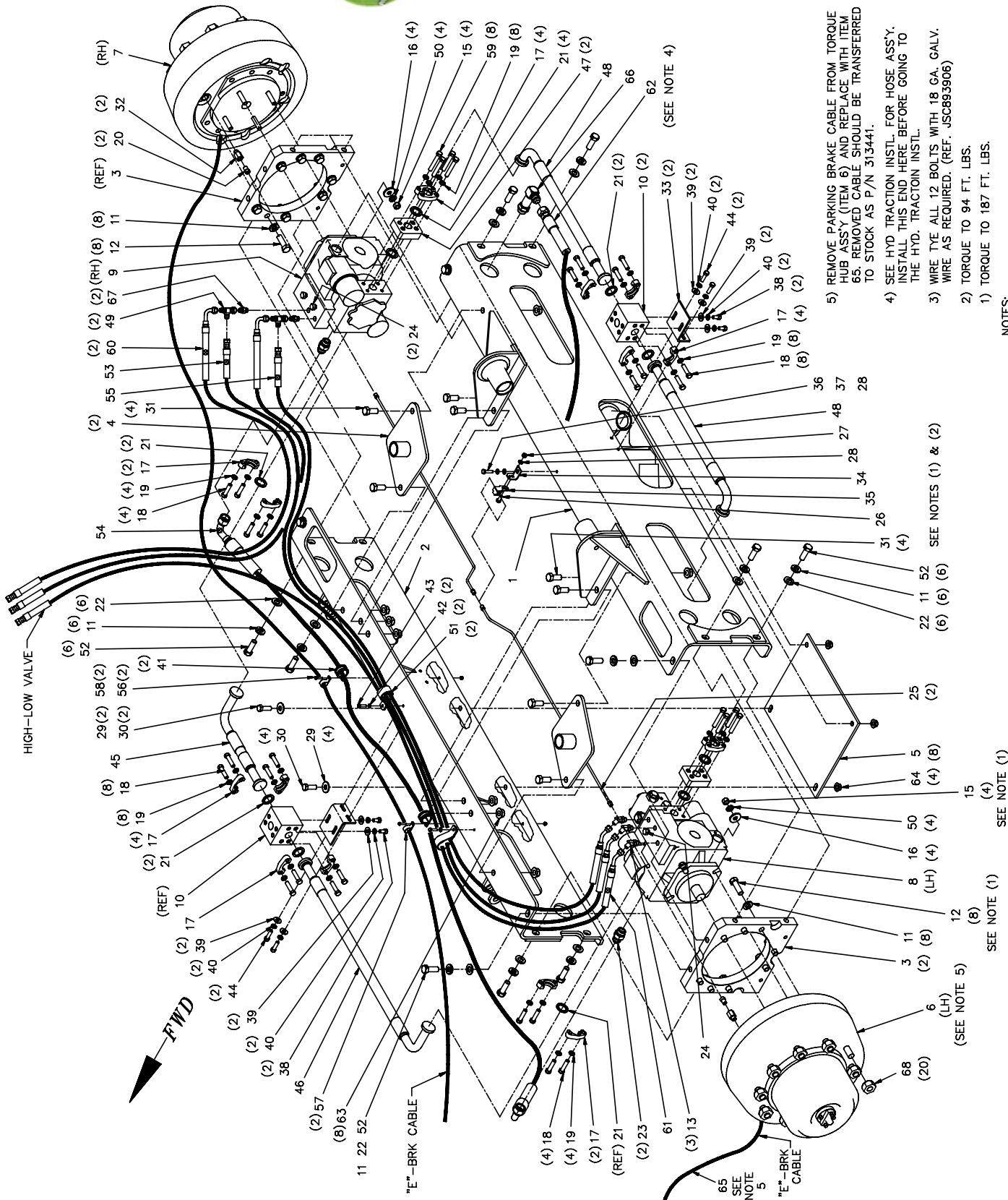


NOTES
NOTES



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Rear Suspension Assembly



- 5) REMOVE PARKING BRAKE CABLE FROM TORQUE HUB ASSY (ITEM 6) AND REPLACE WITH ITEM 65. REMOVED CABLE SHOULD BE TRANSFERRED TO STOCK AS P/N 313441.
- 4) SEE HYD TRACTION INSTL. FOR HOSE ASSY. THE HYD. TRACTOIN INSTL. WIRE AS REQUIRED. (REF. JSC683906)
- 3) WIRE TIE ALL 12 BOLTS WITH 18 GA. GALV. WIRE AS REQUIRED. (REF. JSC683906)
- 2) TORQUE TO 94 FT. LBS.
- 1) TORQUE TO 187 FT. LBS.

NOTES:

SEE NOTES (1) & (2)

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Rear Suspension Assembly

CHAPTER 1

Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	323402	Drive Axle Assembly FS	M Ref	46	323523	Hose Assy, 1.0 Id X 28.0 Lg.	1
1	323212	Channel Wldmt, Rear Suspension	0	47	323527	Block-Spacer Hyd. Hose	2
2	323211	Z-Plate Wldmt, Rear Suspension	0	48	323525	Hose Assy, 1.0 Id X 17.25 Cut	2
3	322085	Mounting Plate, Torque Hub	2	49	054681	Tee, Mj-Fjx-Mj-6	2
4	323421	Plate- Spring	0	50	030592	Washer- Loc, Split Pltd 1/2 Gr8	8
5	323422	Plate- Tie	0	51	18010-8	Wire And Tube Clip-1-1/2"	2
6	326415	Torque Hub, Lh	1	52	322220	Scr- Hx Hd, 5/8-18 X 1 3/4 W/H	12
7	326414	Torque Hub, Rh	1	53	331148	Hose Assy, 3/8 Id X 63.0 Lg.	1
8	308851	Motor Variable L.H.	1	54	323524	Hose Assy, 3/4 Id X 67.5 Lg.	1
9	308852	Motor Variable R.H.	1	55	323528	Hose Assy, 3/8 Id X 60.0 Lg.	1
10	308962	Block Tee	2				
11	031146	Washer- Loc Split Pltd 5/8	28	56	900081	Scr-Pan Hd,10-24x1	2
12	030560	Scr-Hx Hd,5/8-18x2 Gr8	16	57	461755	Clamp Loop Dg 10	2
13	550267	El, Mb-Mj45-6	3	58	036860	Nut-Keps, Plated, 10-24	2
14	306225	Stud-Special,1/2-13x2-1/4 Gr8	8	59	323561	Scr-Hx Hd,PI,7/16-14x2-3/4 Gr8	8
15	900378	Nut-Lock,Plated,1/2-13	8	60	326868	Hose Assy, 3/8"Id X 25"Cut	2
16	609297	Washer-.53 Id X 1.5 Od,7 Ga	8	61	323537	Hose Assy, 3/8 Id X 66.0 Lg.	1
17	308533	Half - Split Flange 1"	16	63	380849	Stover L/Nut-5/8-11, Gr C	0
18	309825	Scr-Hx Hd,7/16-14x1-3/4 Gr8	24	64	323621	Stover L/Nut Blk-1/2-13, Gr C	0
19	030499	Washer- Loc,Split,Blk,7/16 Gr8	32	65	323534	Cable Assy, Parking Brake- Lh	1
				66	325694	Elbow, Mb-Mj90II-12	1
20	609835	Conn- Mp-Inv-FI-4	2	67	204003	Conn, Mb-Mj-6	2
21	307016	Seal - Static Face 1"	10	68	021008	Nut- Lug R H	20
22	035561	Washer Flat Sae Pltd 5/8 Gr8	12				
23	206382	Conn, Mb-Mj-12	2				
24	204283	Plug 9/16-18	3				
25	323416	Brake Line, Rear Suspension	2				
26	030483	Scr- Hxhd Pltd 5/16-18x3/4 Gr8	1				
27	030617	Nut- Plated 5/16-18	1				
28	030373	Washer- Loc Split Plt 5/16 Gr8	2				
29	030595	Washer Flat Uss Plated 1/2	4				
30	033151	Scr- Hx Hd 1/2-13 X 1-1/2 Gr8	0				
31	380852	Hex Cap Bolt-5/8-11x1.5, Gr8	0				
32	319074	Adapter, Mmb-Fp-14mm-4	2				
33	323518	Bracket, Block -T Hyd.	2				
34	323440	Angle, Brake Tee Support	1				
35	323442	Fitting, Union Tee W/Bracket	1				
36	031434	Scr- Hx Hd Pltd 5/16-18x1-1/4	1				
37	651420	Washer Flat Sae 5/16 Id	1				
38	033147	Scr- Hx Hd Pltd 3/8-16 X 3/4	4				
39	030557	Washer Flat Uss Plated 3/8	8				
40	030605	Washer- Loc,Split,Pltd,3/8 Gr8	8				
41	501838	Clamp Loop G 21	2				
42	030643	Washer- Loc Split Pltd 1/4 Gr8	1				
43	033125	Scr- Hx Hd Pltd 1/4-20 X 1 Gr8	1				
44	033139	Scr- Hxhd Plt 3/8-16x1-1/4 Gr8	4				
45	323522	Hose Assy, 1.0 Id X 6.0 Cut	1				

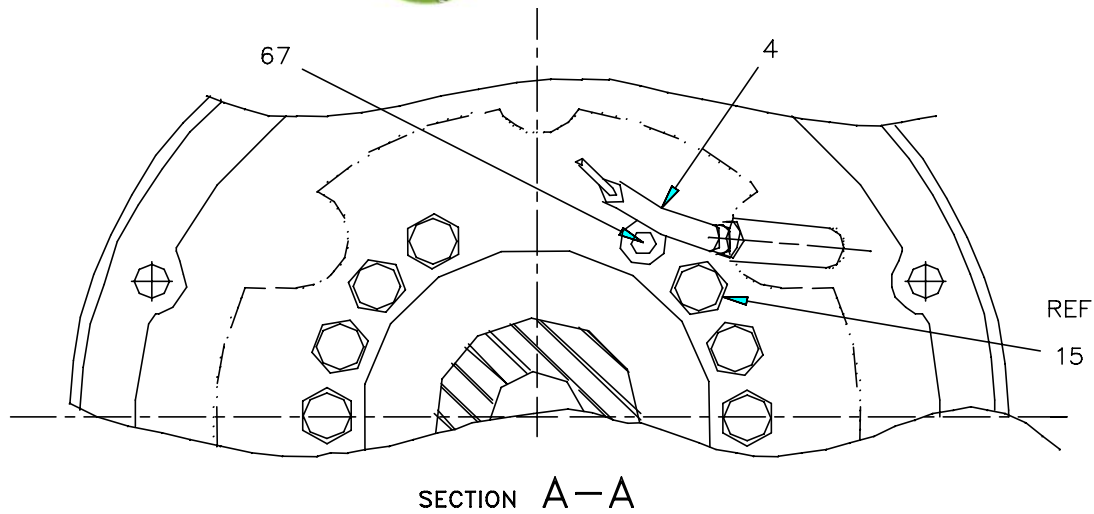




NOTES
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BOLT TIMING LOOKING INTO THE BRAKE
FROM BACK SIDE OF SPINDLE FLANGE.

ASSEMBLY SPECIFICATIONS

NOTE: DO NOT OIL BEARING BEFORE THE FOLLOWING:

1. HUB-SPINDLE BEARINGS

LOCKNUT TORQUE 125 FT-LBS MIN.

2. BOLT TORQUE

⬡60 = 35-45 FT-LBS

⬡21 = 20-25 FT-LBS

⬡15 = 190-200 FT-LBS (LOCTITE PER 2-D-1.1)


⬡67 = 150-160 FT-LBS (LOCTITE PER 2-D-1.1)

⬡42 = 70-80 IN-LBS

3. BRAKE SHOE ADJUSTMENT

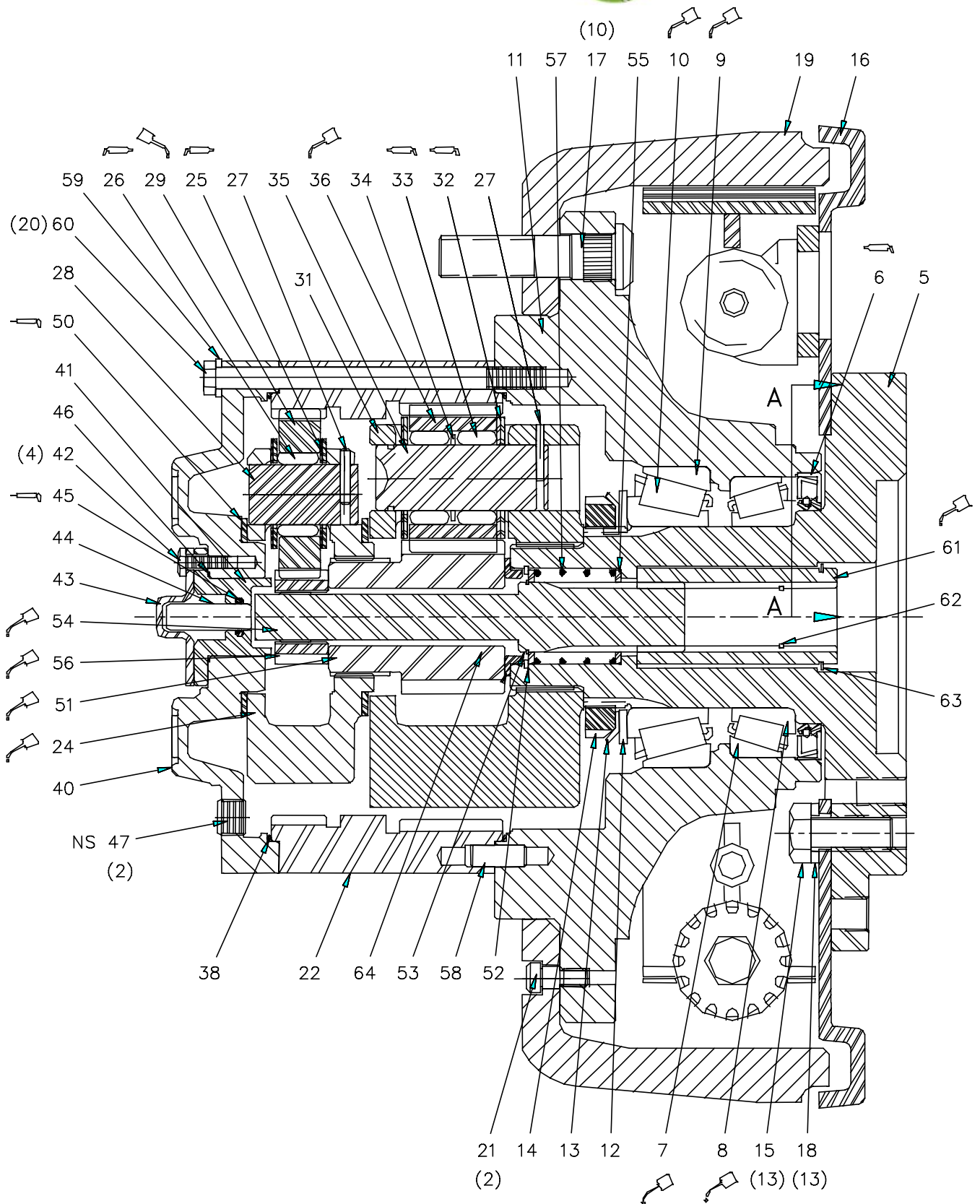
ADJUSTMENT BOLT 85 FT-LBS TORQUE

DRUM ROLLING TORQUE 70-100 IN-LBS

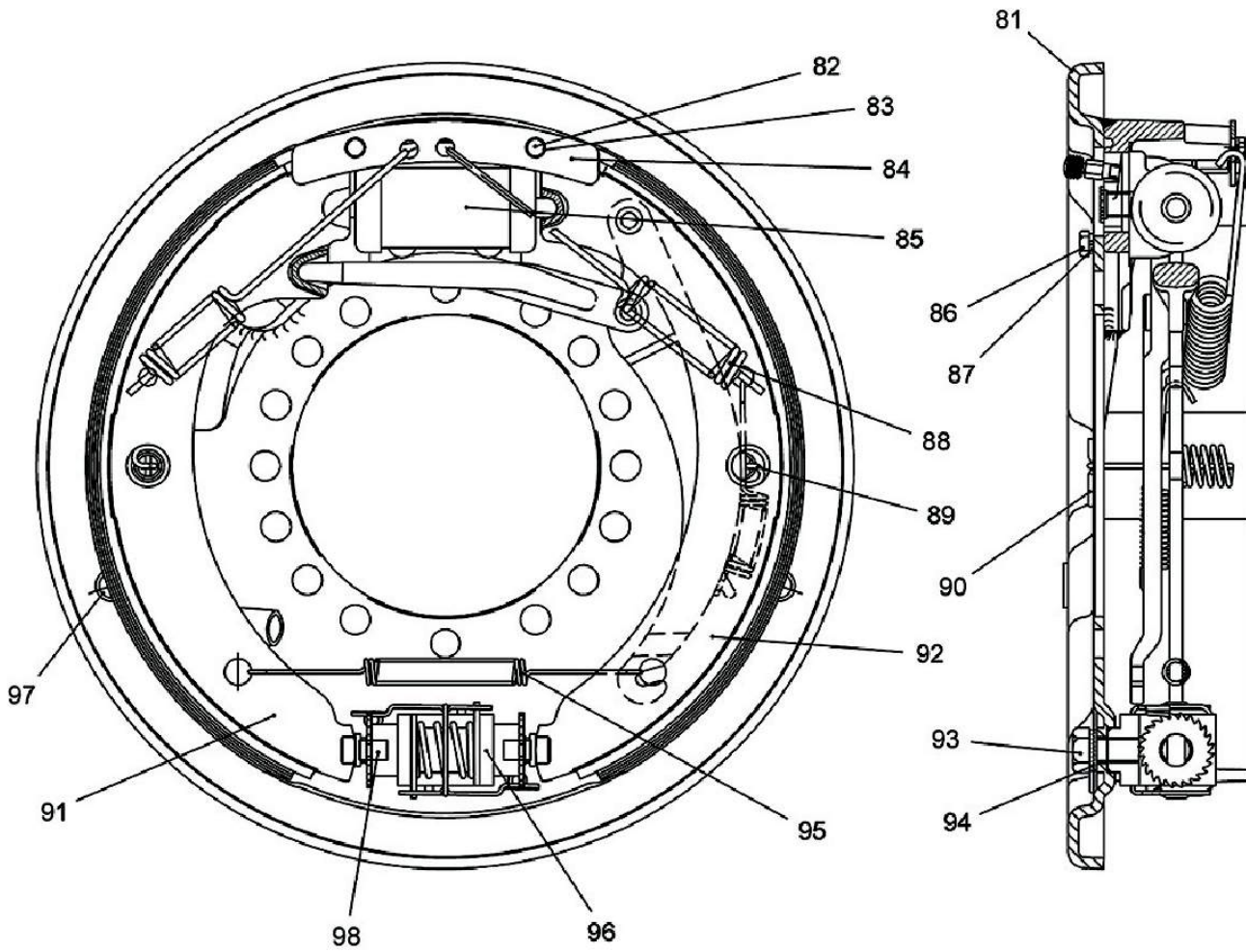
4. APPLY A LIGHT COAT OF GREASE TO PARTS. 

5. APPLY A LIGHT FILM OF OIL TO PARTS. 

6. APPLY A LIGHT COAT OF "NEVER-SIEZE" TO PARTS. ⬡NS



Torque Hub
Assembly LH





Torque Hub Assembly LH

CHAPTER 1

Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	326415	Torque Hub, LH	*B Ref	51	305678	Sun Gear Second Stage	0
2	305002	Hub/Spindle Assy	0	52	305679	Ring – Retainer	0
4	313441	Cable Assy–Lh	0	53	305680	Ring – Retainer	0
5	305632	Spindle	0	54	305681	Shaft	0
6	305633	Seal	0	55	305682	Washer	0
7	306684	Spring	0	56	305683	Small Input Gear	0
8	306685	Spring	0	57	305684	Spring	0
9	306686	Spring	0	58	305685	Pin – Dowel	0
11	305638	Hub	0				
				60	305687	Bolt	0
				61	305688	Coupling	0
12	305639	Washer–Tongued	0	62	305689	Ring–Retaining	0
13	305640	Washer–Lock	0	63	305690	Ring Retaining	0
14	305641	Nut–Lock	0	64	305691	Spacer	0
15	305642	Bolt– Hx Hd.	0	65	305692	Brake–L.H.	0
17	305644	Stud	0	66	890611	Gear Oil Sae 90 1.00000	0
18	305645	Washer–Lock	0	67	305889	Bolt Round Head, 5/8	0
19	305646	Brake Drum	0				
20	305647	Pin–Dowel	0	80	381980	Complete Brake Assy	0
				81	380431	Backing Plate	0
21	305648	Bolt – Shoulder	0	82	382359	Bolt – Thread Cutting, Fastener	0
22	305649	Gear Ring	0	83	381673	Washer – Lock, M6	0
23	305650	Carriage Assy. 1st Stage	0	84	380434	Retainer Plate	0
24	305651	Carrier Input	0	85	306682	Wheel Cylinder	0
25	305652	Washer Thrust	0	86	382360	Bolt – Hx Hd, Fastener	0
26	305653	Roller – Needle	0	87	381674	Washer – Lock, M8	0
27	305654	Pin – Dowel	0				
28	305655	Shaft–Planet	0	88	306684	Spring, Return	0
				89	306686	Spring, Hold Down	0
29	305656	Gear Planet	0	90	380436	Spring Buckle	0
30	305657	Carrier Assy, 2nd Stage	0	91	306679	Brake Shoe, RH or LH	0
31	305658	Carrier–Output	0	92	306681	Brake Shoe, Rh	0
32	305659	Washer–Thrust	0	93	381671	Bolt – Hx Hd, Fastener	0
33	305660	Roller – Needle	0	94	381892	Washer – B15, D125	0
34	305661	Spacer	0	95	381643	Spring Return	0
35	305662	Shaft Planet	0				
36	305663	Gear, Planet	0	96	382361	Adjuster, Automatic	0
				97	381676	Plug, M20 X 1.5	0
37	305664	Use 305654 Pin–Groove	0	98	380433	Plug, Square, 17 X 15 X 11	0
38	305665	"O" Ring	0				
40	305667	Cover	0				
41	305668	Cap Cover	0				
42	305669	Bolt	0				
43	305670	Cap–Disconnect	0				
44	305671	Rod–Disconnect	0				
45	305672	"O" Ring	0				
46	305673	"O" Ring	0				
47	305674	Plug–Magnetic	0				
48	305675	Plate–I.D.	0				
49	305676	Screw–Drive	0				
50	305677	Washer – Thrust	0				

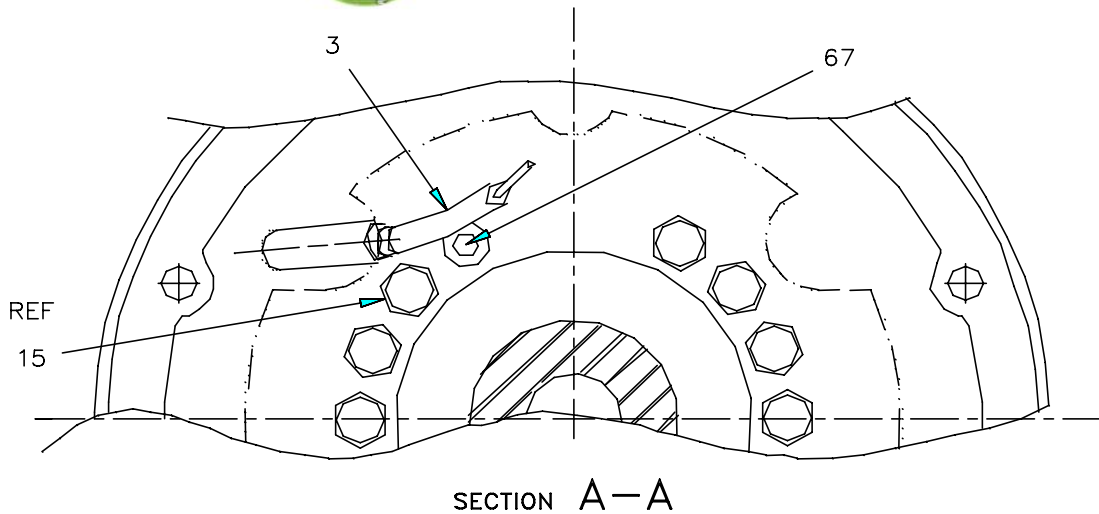




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BOLT TIMING LOOKING INTO THE BRAKE
FROM BACK SIDE OF SPINDLE FLANGE.

ASSEMBLY SPECIFICATIONS

NOTE: DO NOT OIL BEARING BEFORE THE FOLLOWING:

1. HUB-SPINDLE BEARINGS

LOCKNUT TORQUE 125 FT-LBS MIN.

2. BOLT TORQUE

⬡60 = 35-45 FT-LBS

⬡21 = 20-25 FT-LBS

⬡15 = 190-200 FT-LBS (LOCTITE PER 2-D-1.1)

⬡67 = 150-160 FT-LBS (LOCTITE PER 2-D-1.1)

⬡42 = 70-80 IN-LBS

3. BRAKE SHOE ADJUSTMENT

ADJUSTMENT BOLT 85 FT-LBS TORQUE

DRUM ROLLING TORQUE 70-100 IN-LBS

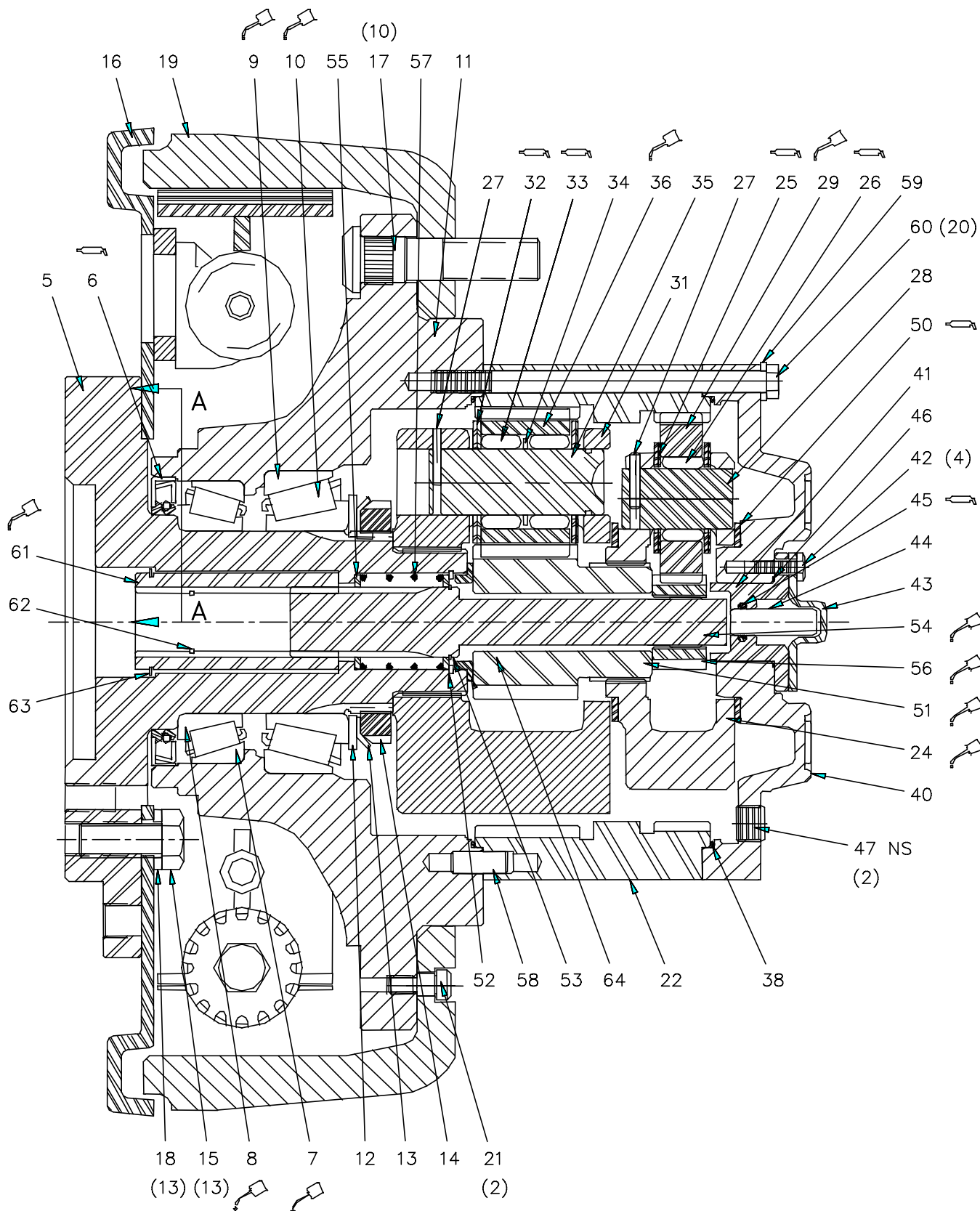
4. APPLY A LIGHT COAT OF GREASE TO PARTS. 

5. APPLY A LIGHT FILM OF OIL TO PARTS. 

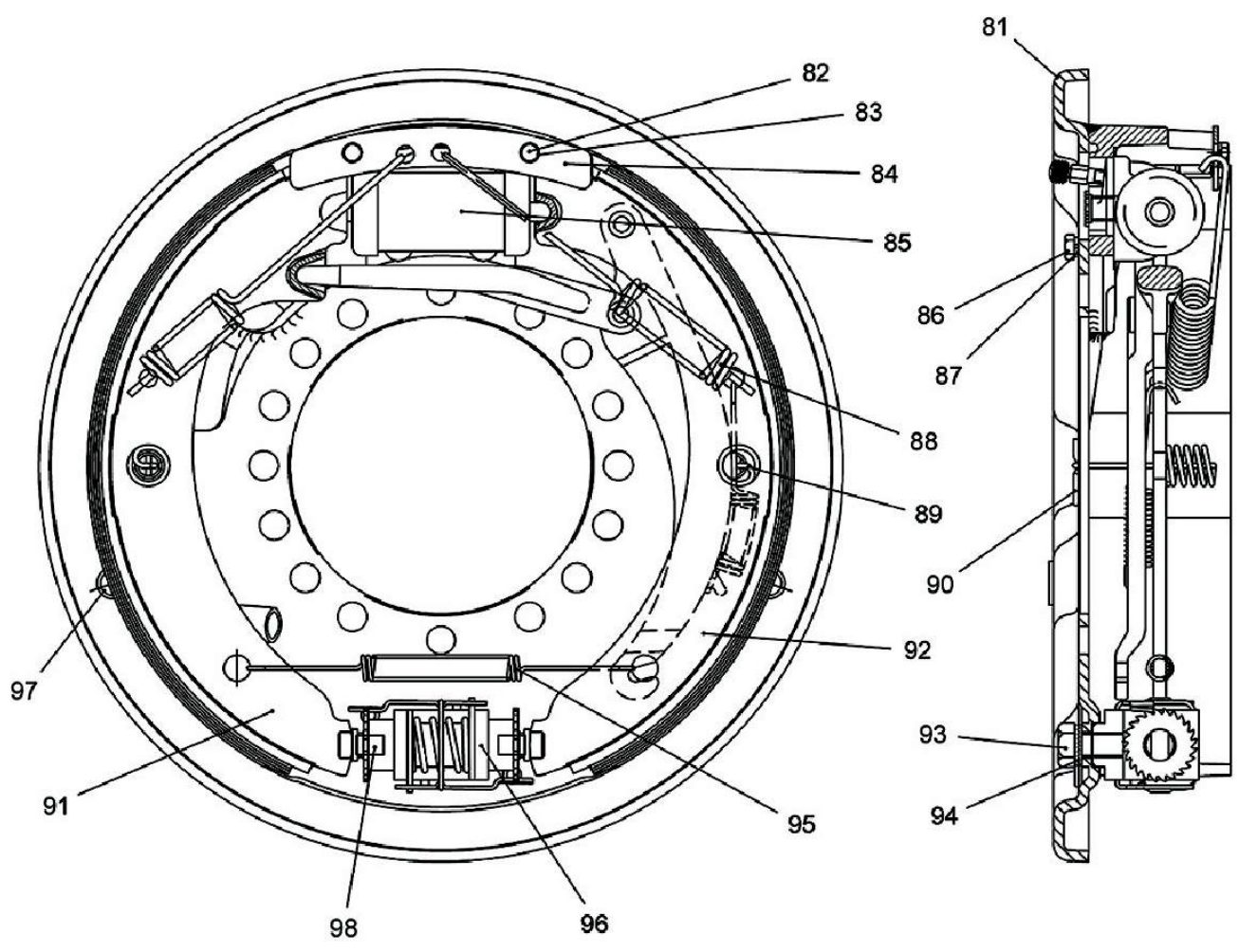
6. APPLY A LIGHT COAT OF "NEVER-SIEZE" TO PARTS.



CHAPTER 1



**Torque Hub
Assembly RH**





Torque Hub Assembly RH

CHAPTER 1

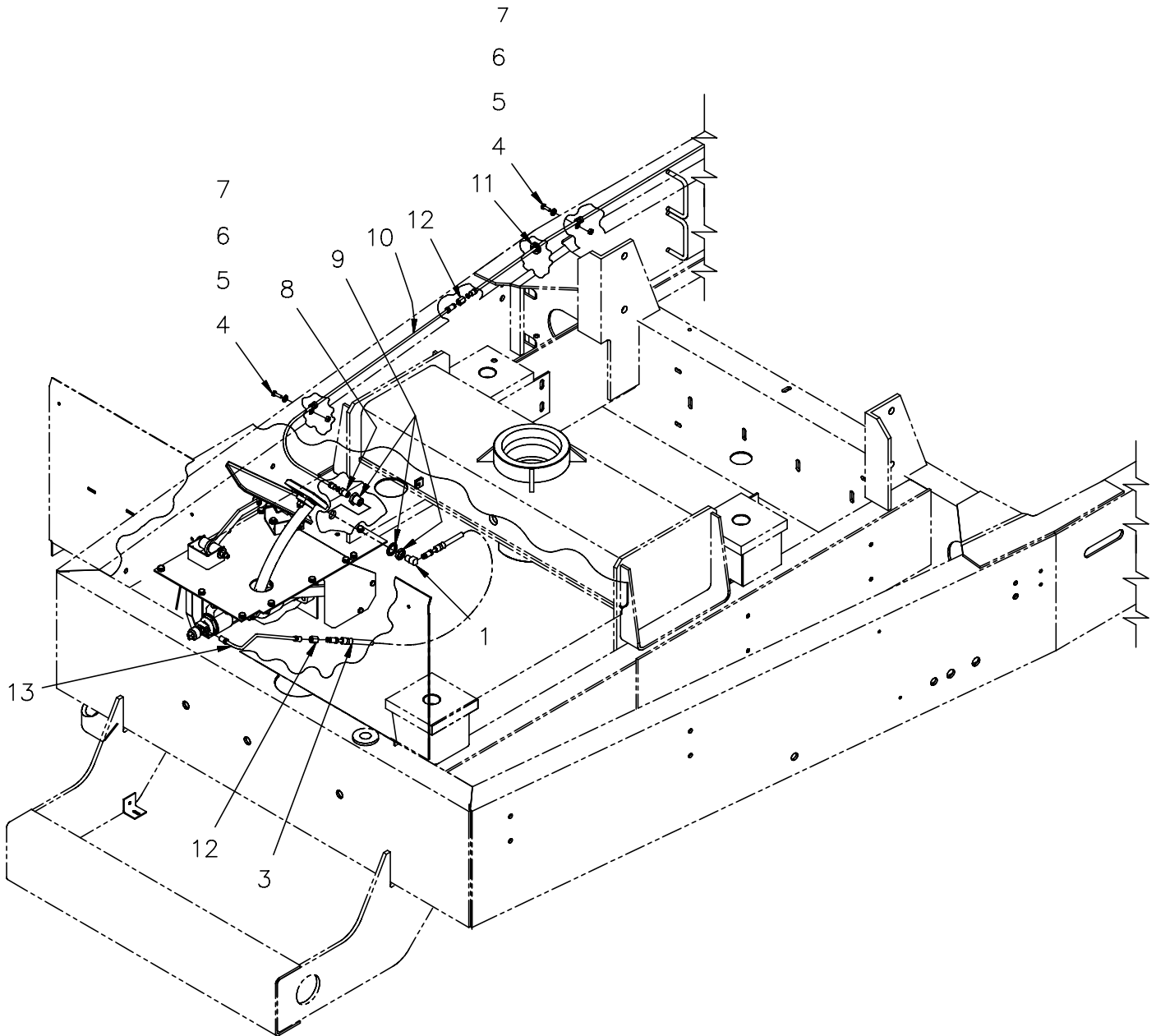
Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	326414	Torque Hub, RH	*B Ref	51	305678	Sun Gear Second Stage	0
1	305001	Hub/Spindle Assy	0	52	305679	Ring – Retainer	0
3	313440	Cable Assy–Rh	0	53	305680	Ring – Retainer	0
5	305632	Spindle	0	54	305681	Shaft	0
6	305633	Seal	0	55	305682	Washer	0
7	306684	Spring	0	56	305683	Small Input Gear	0
8	306685	Spring	0	57	305684	Spring	0
9	306686	Spring	0	58	305685	Pin – Dowel	0
11	305638	Hub	0				
12	305639	Washer–Tongued	0	60	305687	Bolt	0
13	305640	Washer–Lock	0	61	305688	Coupling	0
14	305641	Nut–Lock	0	62	305689	Ring–Retaining	0
15	305642	Bolt– Hx Hd.	0	63	305690	Ring Retaining	0
16	305643	Brake – Rh	0	64	305691	Spacer	0
17	305644	Stud	0	65	305643	Brake – Rh	0
18	305645	Washer–Lock	0	66	890611	Gear Oil Sae 90 1.00000	0
19	305646	Brake Drum	0	67	305889	Bolt Round Head, 5/8	0
				80	381979	Complete Brake Assembly	0
20	305647	Pin–Dowel	0	81	380432	Backing Plate	0
21	305648	Bolt – Shoulder	0	82	382359	Bolt – Thread Cutting, Fastener	0
22	305649	Gear Ring	0	83	381673	Washer – Lock, M6	0
23	305650	Carriage Assy. 1st Stage	0	84	380434	Retainer Plate	0
24	305651	Carrier Input	0	85	306682	Wheel Cylinder	0
25	305652	Washer Thrust	0	86	382360	Bolt – Hx Hd, Fastener	0
26	305653	Roller – Needle	0	87	381674	Washer – Lock, M8	0
27	305654	Pin – Dowel	0				
28	305655	Shaft–Planet	0	88	306684	Spring, Return	0
29	305656	Gear Planet	0	89	306686	Spring, Hold Down	0
30	305657	Carrier Assy, 2nd Stage	0	90	380436	Spring Buckle	0
31	305658	Carrier–Output	0	91	306679	Brake Shoe, RH or LH	0
32	305659	Washer–Thrust	0	92	306680	Brake Shoe, Lh	0
33	305660	Roller – Needle	0	93	381671	Bolt – Hx Hd, Fastener	0
34	305661	Spacer	0	94	381892	Washer – B15, D125	0
35	305662	Shaft Planet	0	95	381643	Spring Return	0
36	305663	Gear, Planet	0	96	382361	Adjuster, Automatic	0
37	305664	Use 305654 Pin–Groove	0	97	381676	Plug, M20 X 1.5	0
38	305665	"O" Ring	0	98	380433	Plug, Square, 17 X 15 X 11	0
40	305667	Cover	0				
41	305668	Cap Cover	0				
42	305669	Bolt	0				
43	305670	Cap–Disconnect	0				
44	305671	Rod–Disconnect	0				
45	305672	"O" Ring	0				
46	305673	"O" Ring	0				
47	305674	Plug–Magnetic	0				
48	305675	Plate–I.D.	0				
49	305676	Screw–Drive	0				
50	305677	Washer – Thrust	0				





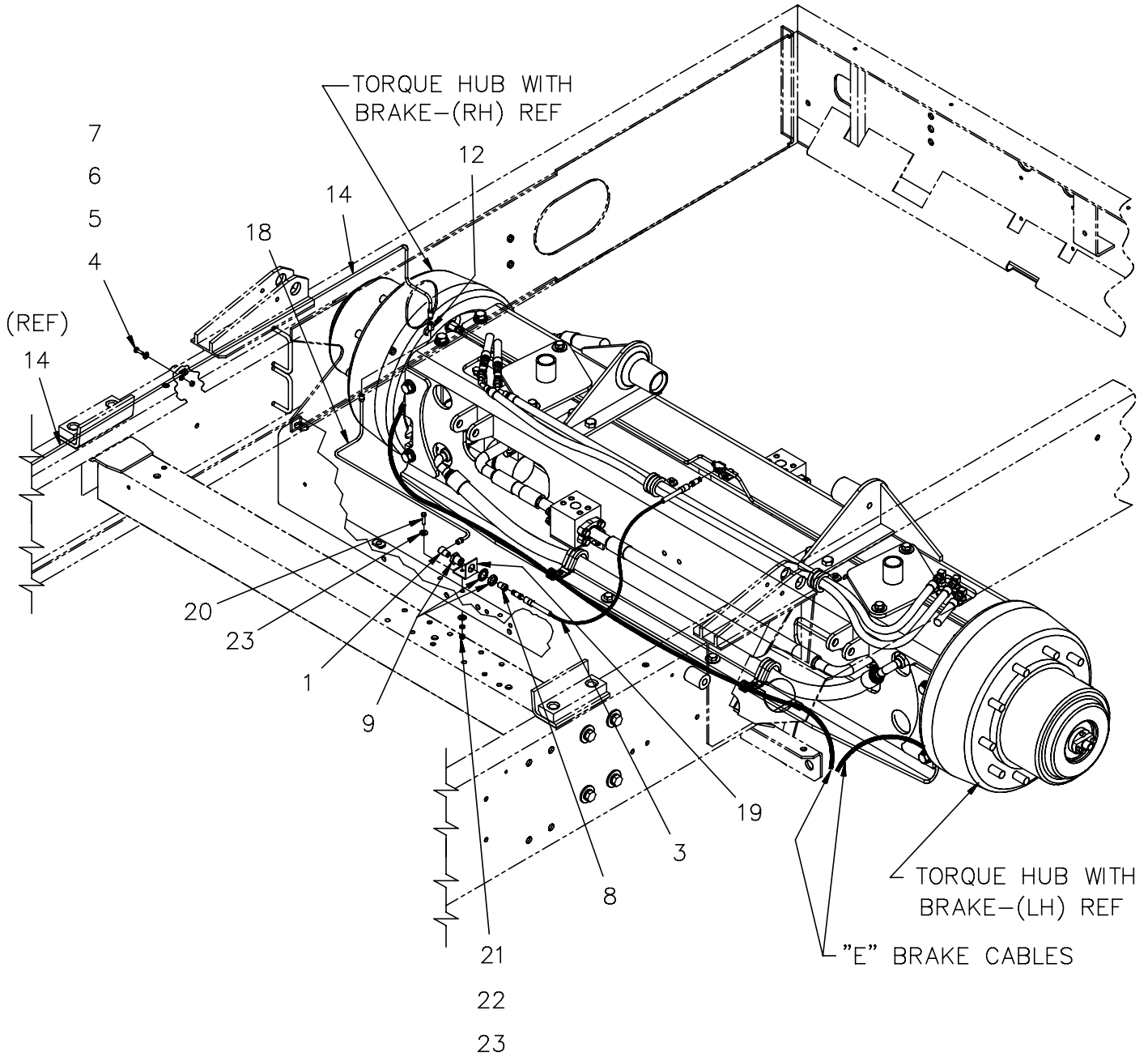
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CHAPTER 1



1) SEE ES 049 FOR BRAKE BLEEDING PROCEDURE.

NOTE:





Brake Line Installation

CHAPTER 1

Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	323405	Brake Line Instl (Rear Susp)	C Ref	11	216037	Grommet An931-c12-17	1
1	605220	Elbow- Mp Inv Fl 90-4	2	12	312372	Union-inverted 1/4 Tube	3
2	890426	Brake Fluid 1.00000	1	13	325219	Brake Line, Master Cylinder	1
3	203887	Hose Assy- Hyd Brke	2	14	322625	Brake Line Assy Frame Rail	1
4	603115	Clamp Loop Dg 6	3	18	323417	Brake Line, Frame To Hose	1
5	609606	Washer Flat Sae Plated 1/4	3	19	322961	Bracket, Spray Nozzle Pub Side	1
6	900105	Nut- Keps, Plated, 1/4-20	3	20	033125	Scr- Hx Hd Pltd 1/4-20 X 1 Gr8	1
7	026205	Scr- Hx Hd Plt 1/4-20 X 5/8	3	21	030703	Nut Hex 1/4-20 Unc	1
8	609835	Conn- Mp-inv-fl-4	2	22	030643	Washer- Loc Split Pltd 1/4 Gr8	1
9	203479	Bulkhead Ftg- 1/4 F Npt	2	23	035605	Washer Flat Uss Plated 1/4	2
10	322611	Brake Line- Straight 47.0 Lg	1				



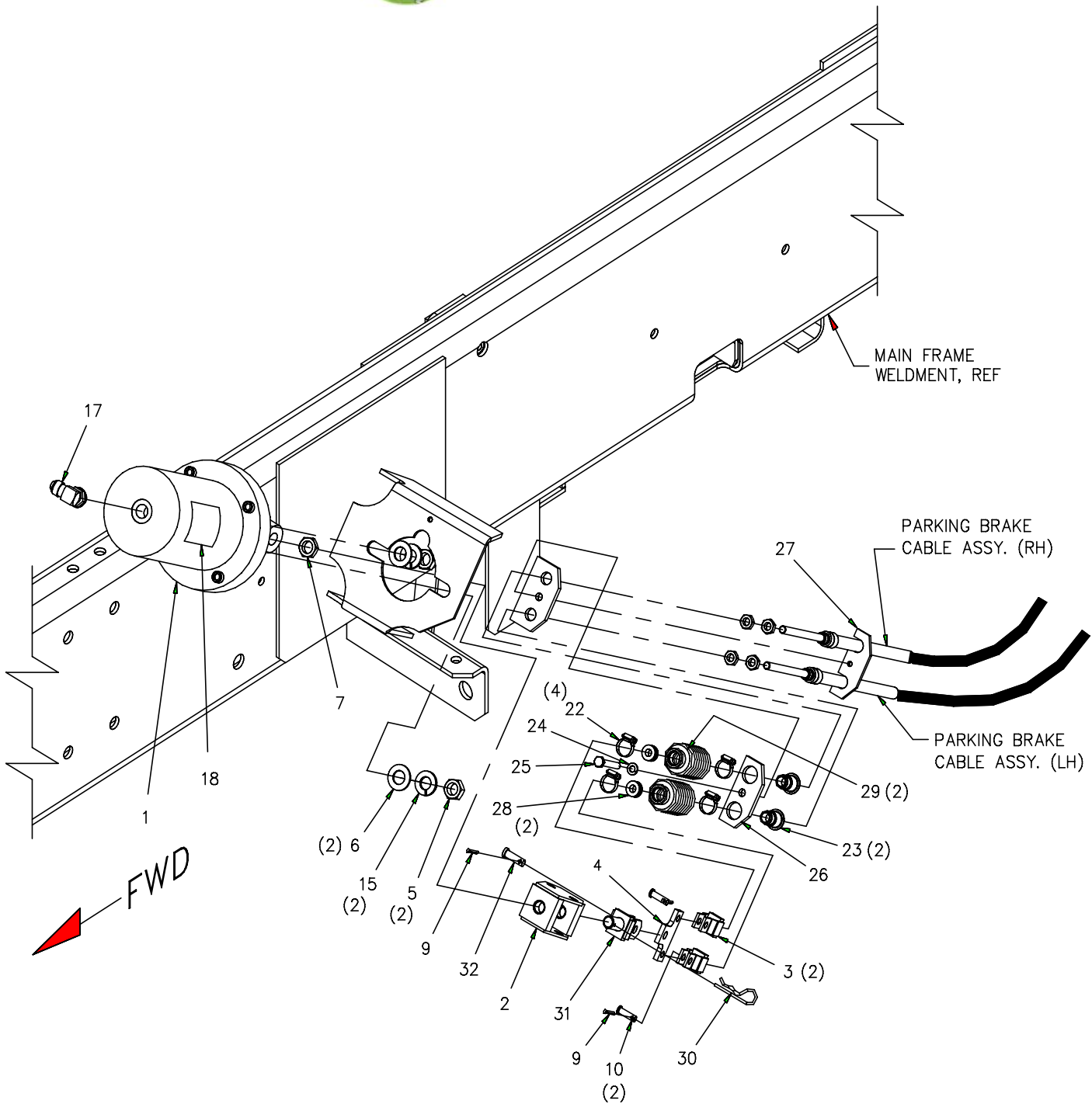


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Parking Brake Installation



1. SCREW IT 3 (1.25 INCH) TO CABLE ENDS.
2. ADJUST IT. 2 SUCH THAT PARKING BRAKE IS ENGAGED WHEN MACHINE IS IN PARK. TIGHTEN ALL JAM NUTS.
3. TORQUE IT .5 115-120 FT-LBS.
4. TOWING: PRIOR TO TOWING THE VEHICLE, DETACH IT. 30 FROM IT. 31 AND TURN IT.2 UNTIL BRAKE IS RELEASED.

NOTES, UNLESS OTHERWISE SPECIFIED:



Parking Brake Installation

CHAPTER 1

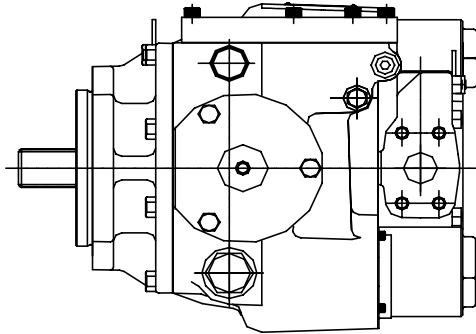
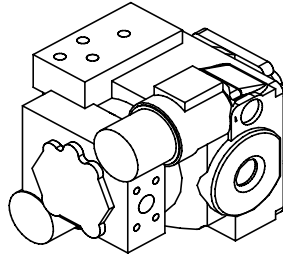
Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	326505	Parking Brake Installation	A Ref	30	314469	Hairpin-5/8 Dia Shaft	1
1	313129	Actuator, Parking Brake	1	31	314502	Clevis Wldmt, Lh Thread	1
2	314794	Turn Buckle Wldmt	1	32	033752	Pin- Clevis 3/8 X 1 1/8	1
3	314505	Clevis Wldmt	2				
4	314496	Plate-equalizer	1				
5	102652	Nut-5/8-18	2				
6	035561	Washer Flat Sae Pltd 5/8 Gr8	2				
7	032945	Nut- Jam Plated 5/8-18	1				
9	031495	Pin- Cotter Plated 1/8 X 1	3				
10	033881	Pin- Clevis 5/16 X 1	2				
15	031146	Washer- Loc Split Pltd 5/8	2				
17	620513	El, Mb-mj90-8	1				
18	306905	Decal-warning Spring Loaded	1				
22	310191	Clamp - Adj	4				
23	380214	Sleeve	2				
24	030373	Washer- Loc Split Plt 5/16 Gr8	1				
25	023087	Scr- Hx Hd Pld 5/16-18 X 1 1/2	1				
26	310806	Rectangle	1				
27	326504	Retainer, Parking Brake Cables	1				
28	324190	Grommet An931-c6-9	2				
29	380216	Bellows	2				





NOTES
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CHAPTER 1



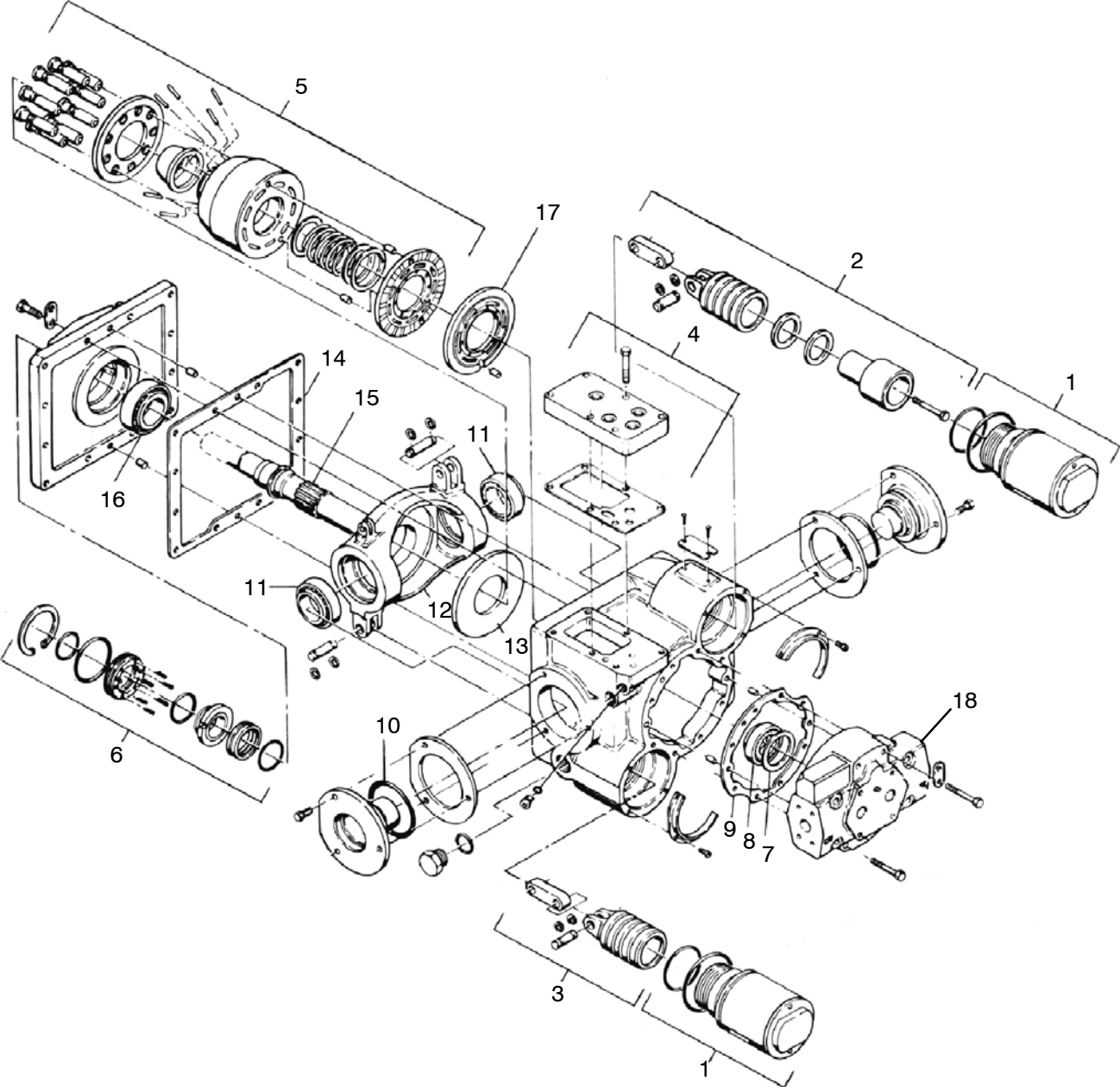
PRODUCT LINE : HD REVISION : H
 PRODUCT NO. : 3941-013 MODEL CODE : ACE394114LBD000000PAG00000BLA
 INSTALLATION : 102040-000

 ADDITIONAL INSTALLATIONS: 102050-000 PORTS, SHAFT THRU 1-1/2
 101984-000 PORTING PLATE

DESCRIPTION:

ACE PRODUCT IDENTIFICATION	-	HEAVY DUTY HYDROSTATIC VARIABLE DISPLACEMENT MOTOR
39 DISPLACEMENT	-	63,66 cm ³ /r [3.885 in ³ /r] AT 18 DEG STROKE
4 TYPE	-	VARIABLE DISPLACEMENT MOTOR
1 DESIGN TYPE	-	SERIES 1 (MODELS 33-64)
14 OUTPUT SHAFT	-	14 TOOTH 12/24 PITCH SPLINE (MODELS 33-64)
L MIN SWASHPLATE ANGLE	-	8 DEGREES
B MAIN PORTS	-	[1.00]SAE 4-BOLT SPLIT FLANGE PORT, HIGH PRESSURE SERIES(CODE 62)
D END COVER AND COMPOSITE VALVE BLOCK ASSY	-	NO COMPOSITE VALVE BLOCK
0 CHARGE PRESS REL VALVE-CMPST VALVE BLOCK	-	NO RELEIF VALVE
0 CHARGE PRESSURE REL VALVE SETTING	-	NONE
0 CMPST VLV BLK HIGH PRESS REL VLV- PORT A	-	NONE
0 HIGH PRESSURE REL VALVE SETTING - PORT A	-	NONE
0 CMPST VLV BLK HIGH PRESS REL VLV -PORT B	-	NONE
0 HIGH PRESSURE REL VALVE SETTING - PORT B	-	NONE
PA CONTROL	-	PORT PLATE
G CONTROL ORIFICE	-	1,85 (.073) DIAMETER
0 PRESSURE SETTING FOR PRESSURE RESPONSE	-	NONE
0 CONTROL SPECIAL FEATURES	-	NO SPECIAL FEATURES
0 SPEED SENSOR	-	NO SPEED SENSOR
00 SPECIAL FEATURES	-	NO SPECIAL FEATURES
B PAINT AND PACKAGING	-	PAINTED PRIMER BLUE (STANDARD)
L IDENTIFICATION ON UNIT	-	JOHNSTON SWEEPER
A DESIGN CODE	-	A

**Variable Motor
Assembly RH**





Variable Motor Assembly RH

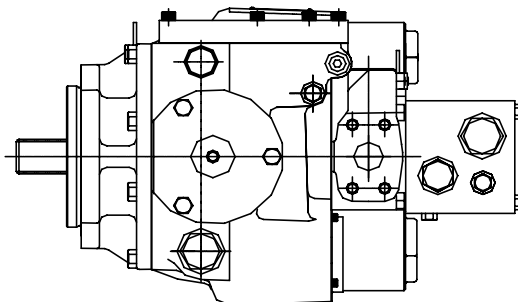
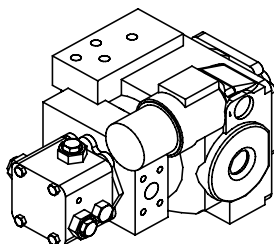
CHAPTER 1

Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	308852	Motor- Variable RH	B Ref	11	307048	Kit- Trunnion Bearing	2
1	307038	Sub Assy.- Servo Sleeve	2	12	307049	Swash Plate	1
2	307039	Subassy Mtr Servo Piston	1	13	307050	Plate - Thrust	1
3	307040	Subassy Mtr Servo Piston	1	14	307051	Gasket	1
4	307041	Kit - Porting Plate Control	1	15	307059	Shaft Motor Drive	1
5	307042	Sub- Assy. Rotating Group	1	16	306733	Kit- Mounting Flange Bearing	1
6	306723	Seal Kit	1	17	307053	Plate- Motor Valve	1
7	307044	Kit- End Cover Bearing Shim	1	18	309420	Hsg. Main Port Wheel Motor RH	1
8	307045	Kit- End Cover Bearing	1				
9	306425	Gasket	1				
10	307047	O- Ring	2				





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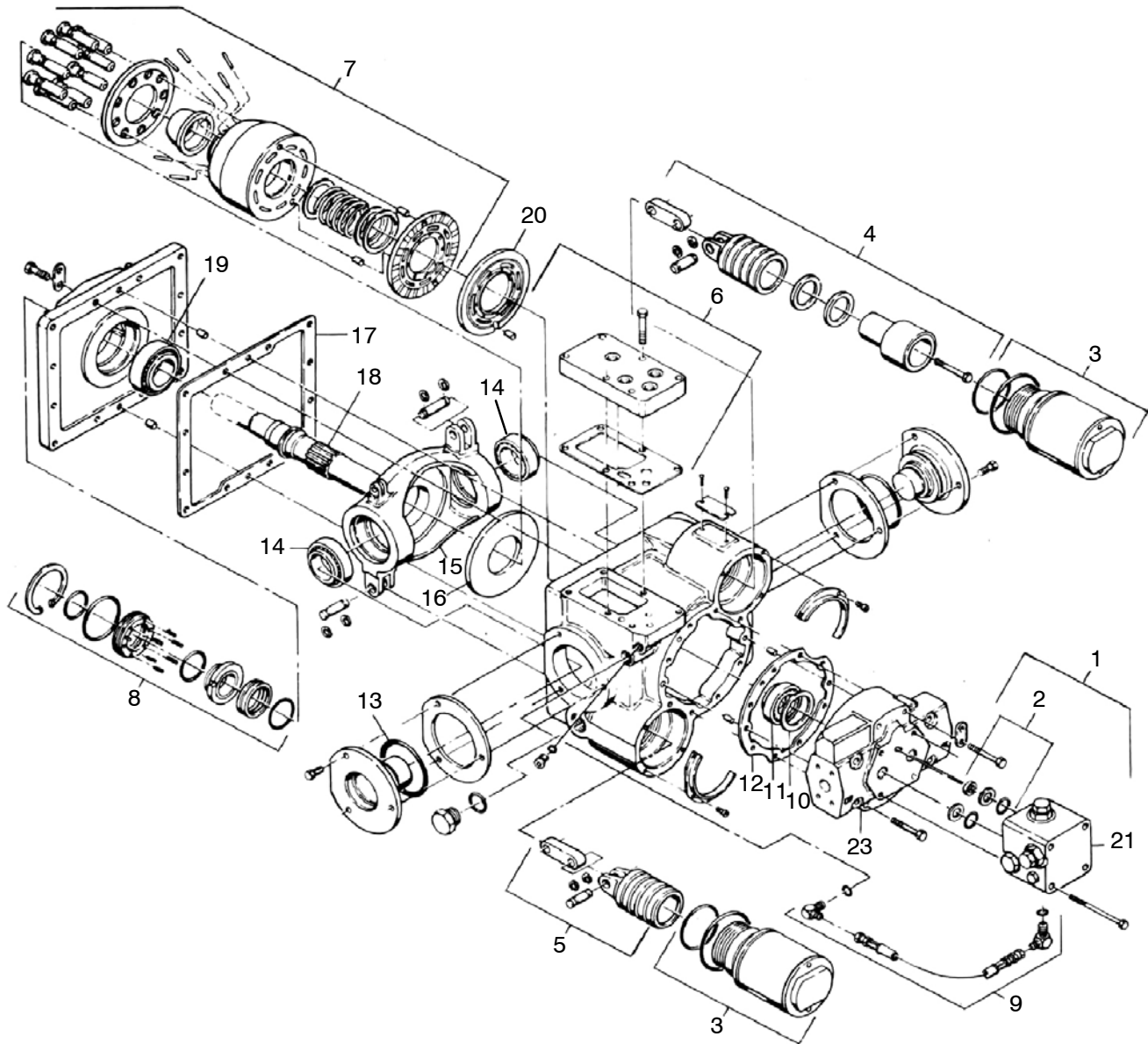


PRODUCT LINE : HD REVISION : M
 PRODUCT NO. : 3941-016 MODEL CODE : ACE394114LBB1H1M1MPAG00A00BLA
 INSTALLATION : 3941-016

DESCRIPTION:

- ACE PRODUCT IDENTIFICATION - HEAVY DUTY HYDROSTATIC VARIABLE DISPLACEMENT MOTOR
- 39 DISPLACEMENT - 63,66 cm³/r [3.885 in³/r] AT 18 DEG STROKE
- 4 TYPE - VARIABLE DISPLACEMENT MOTOR
- 1 DESIGN TYPE - SERIES 1 (MODELS 33-64)
- 14 OUTPUT SHAFT - 14 TOOTH 12/24 PITCH SPLINE (MODELS 33-64)
- L MIN SWASHPLATE ANGLE - 8 DEGREES
- B MAIN PORTS - [1.00]SAE 4-BOLT SPLIT FLANGE PORT, HIGH PRESSURE SERIES(CODE 62)
- B END COVER & CMPST VLV BLK ASSY - STANDARD END COVER,CMPST VLV BLK W/LOW-RATE SHUTTLE VLV SPRINGS
- 1 CHARGE PRESS REL VALVE-CMPST VALVE BLOCK - STANDARD
- H CHARGE PRESSURE REL VALVE SETTING - 19,3 BAR(280 LBF/IN2)
- 1 CMPST VLV BLK HIGH PRESS REL VLV- PORT A - STANDARD
- M HIGH PRESSURE REL VALVE SETTING - PORT A - 414 BAR (6000 LBF/IN2)
- 1 CMPST VLV BLK HIGH PRESS REL VLV -PORT B - STANDARD
- M HIGH PRESSURE REL VALVE SETTING - PORT B 414 BAR (6000 LBF/IN2)
- PA CONTROL - PORT PLATE
- G CONTROL ORIFICE - 1,85 (.073) DIAMETER
- 0 PRESSURE SETTING FOR PRESSURE RESPONSE - NONE
- 0 CONTROL SPECIAL FEATURES - NO SPECIAL FEATURES
- A SPEED SENSOR - MAGNETIC SPEED SENSOR W/2-WIRE WEATHER PACK CONNECTOR
- 00 SPECIAL FEATURES - NO SPECIAL FEATURES
- B PAINT AND PACKAGING - PAINTED PRIMER BLUE (STANDARD)
- L IDENTIFICATION ON UNIT - JOHNSTON SWEEPER
- A DESIGN CODE - A

Variable Motor
Assembly LH





Variable Motor Assembly LH

CHAPTER 1

Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	308851	Motor – Variable LH	D Ref	21	307026	Kit–valve Block	B 1
1	307036	Valve Block Subassy.	1	22	312063	Magnetic Sensor–5/8 (Not Shown)	1
2	307037	Kit–valve Block Sealing	1	23	309421	Hsg. Main Port Wheel Motor Lh	1
3	307038	Sub Assy.–servo Sleeve	2				
4	307039	Subassy Mtr Servo Piston	1				
5	307040	Subassy0 Mtr Servo Piston	1				
6	307041	Kit – Porting Plate Control	1				
7	307042	Sub–assy. Rotating Group	1				
8	306723	Seal Kit	1				
9	307043	Kit– Control Pressure Hose	1				
10	307044	Kit–end Cover Bearing Shim	1				
11	307045	Kit–end Cover Bearing	1				
12	306425	Gasket	1				
13	307047	'o' Ring	2				
14	307048	Kit– Trunnion Bearing	2				
15	307049	Swash Plate	1				
16	307050	Plate – Thrust	1				
17	307051	Gasket	1				
18	307052	Shaft– Motor Drive W/Spd Pu	1				
19	306733	Kit–mounting Flange Bearing	1				
20	307053	Plate– Motor Valve	1				





NOTES
NOTES



CHAPTER 2

Group--Body/Hopper/Frame 2

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Bumper Installation	2.12
Center Body Installation	2.15
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Center Body Panel Assy, LH	2.19
Rear Fender Installation	2.22
Rear Grille Assy.....	2.25
Rear Grille installation	2.26
Hopper Installation - High Dump	2.29
Hopper Assembly - High Dump	2.33
Frame Assembly	2.37



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CHAPTER 2

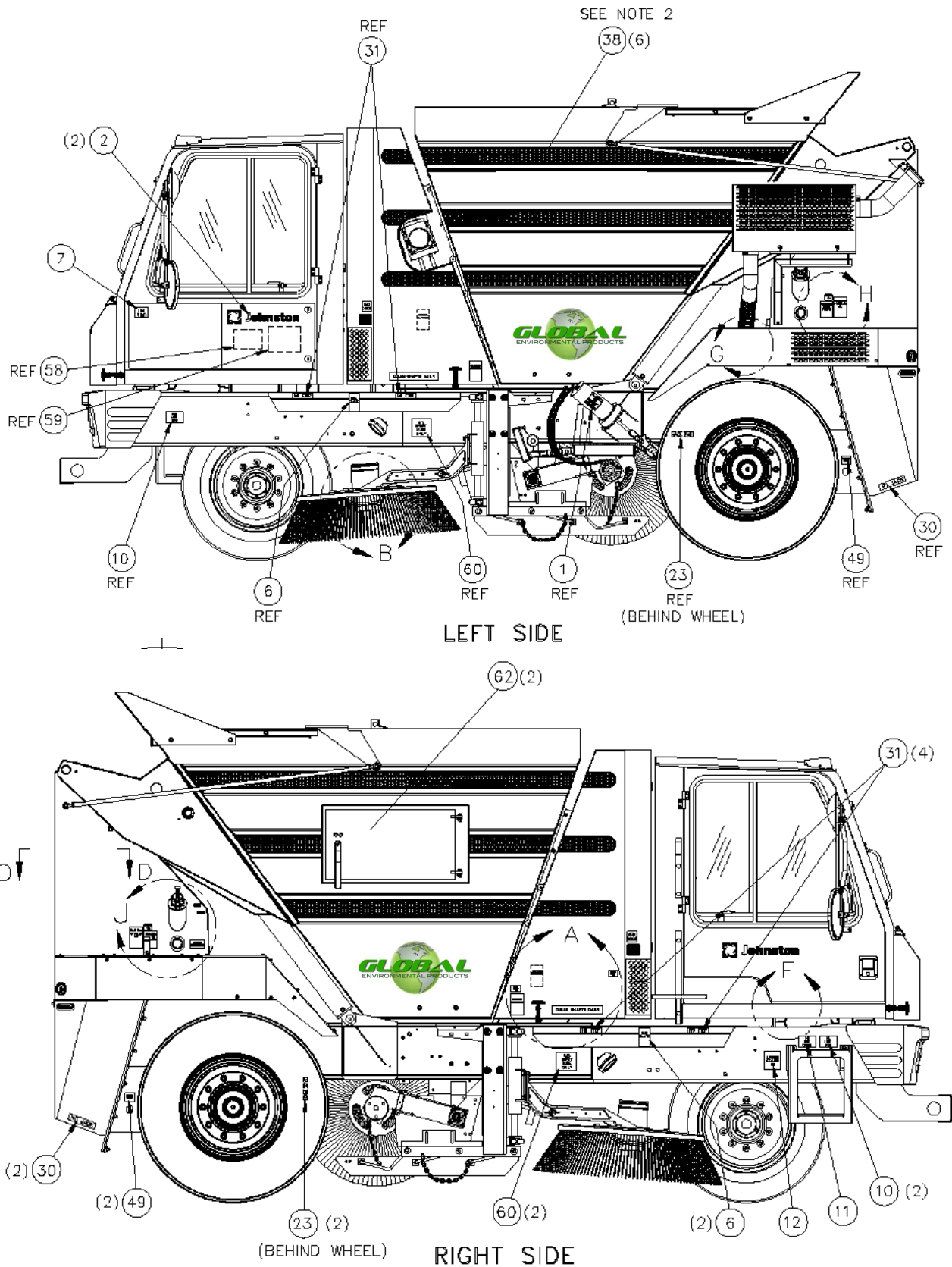
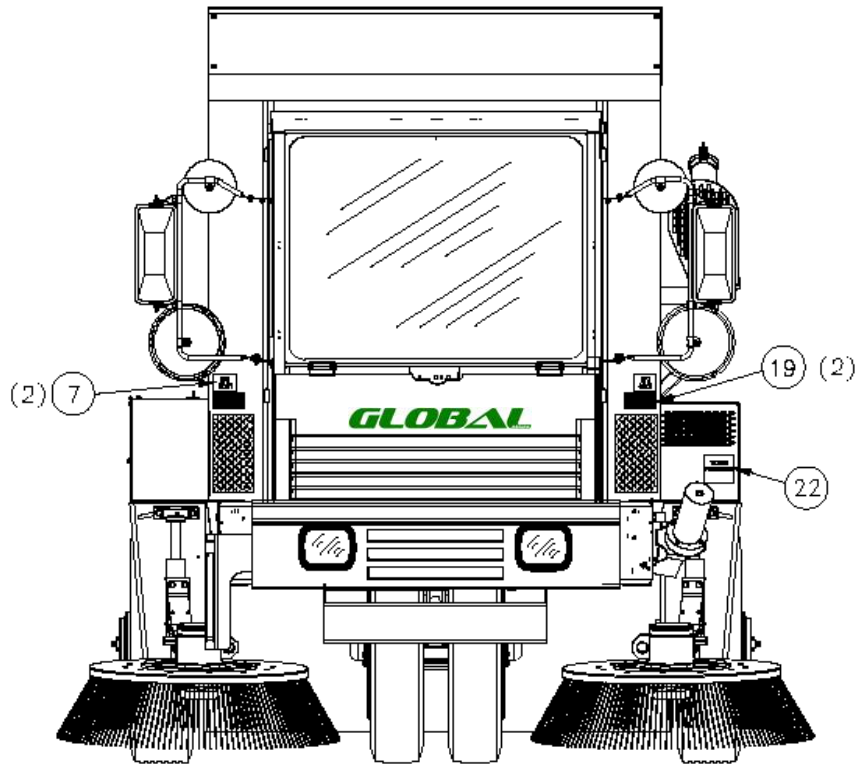
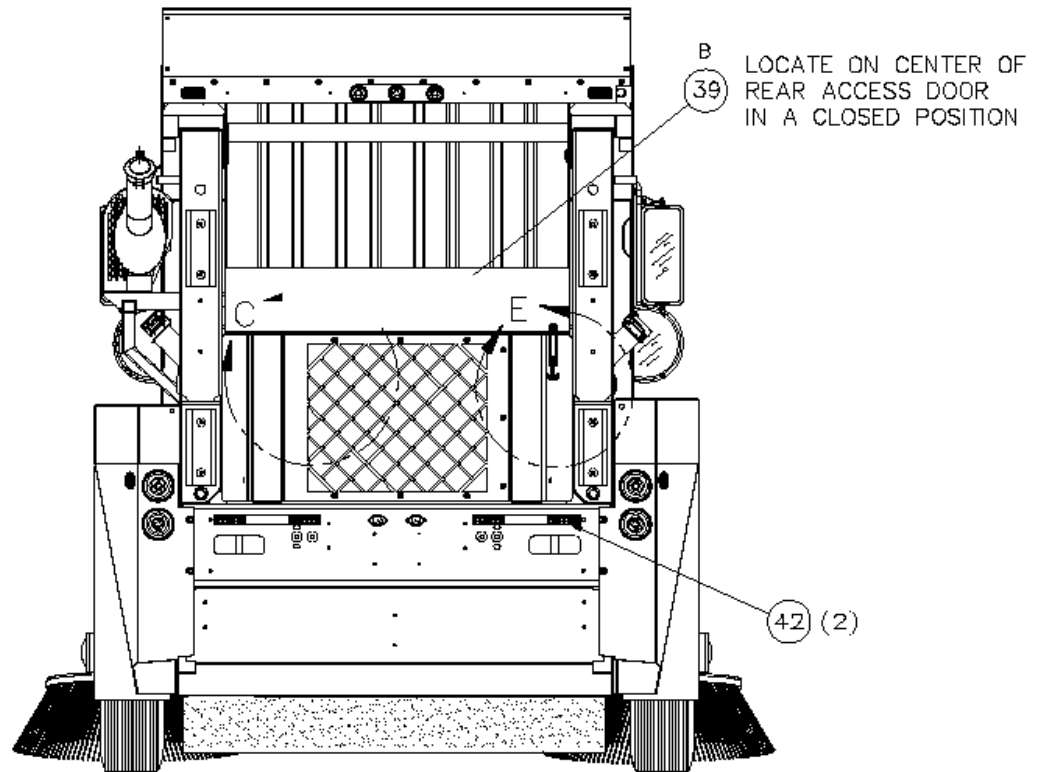


figure 1
page 2.3



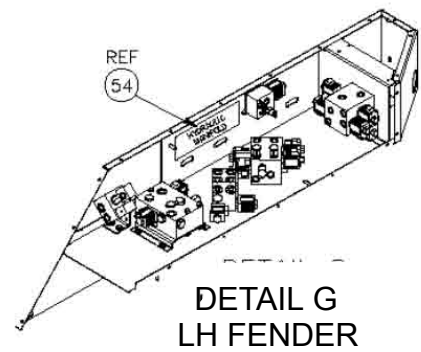
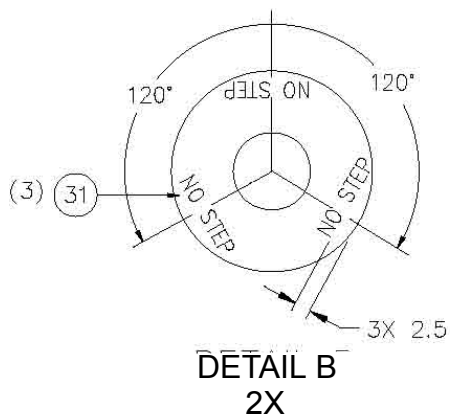
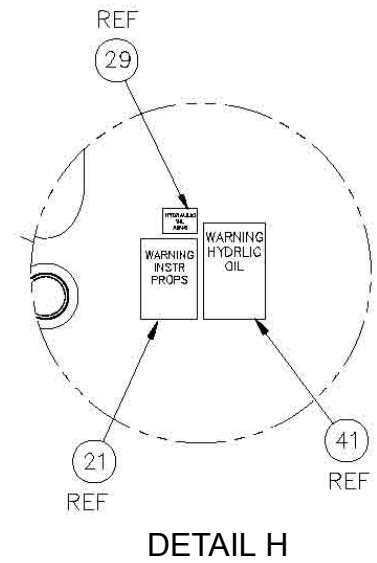
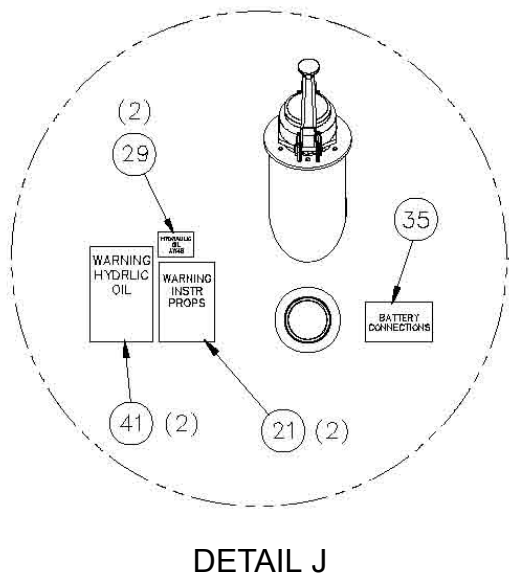
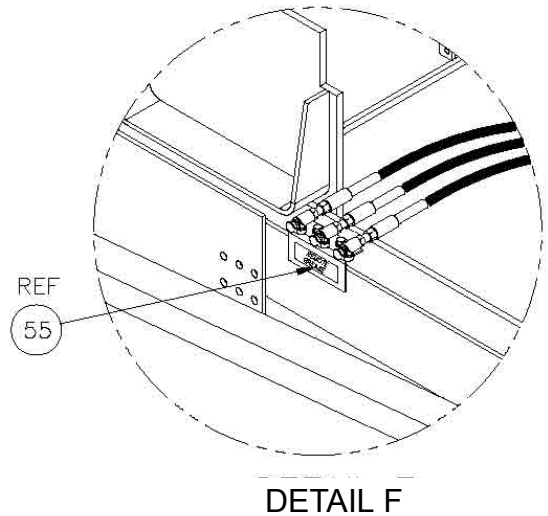
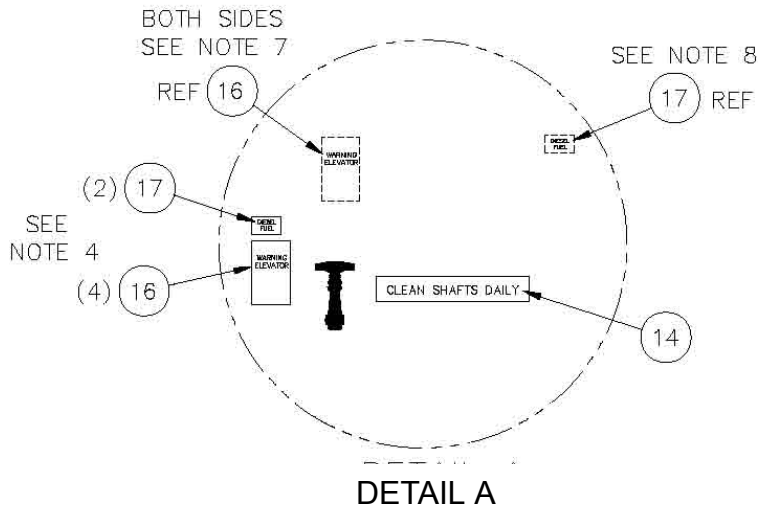
FRONT VIEW

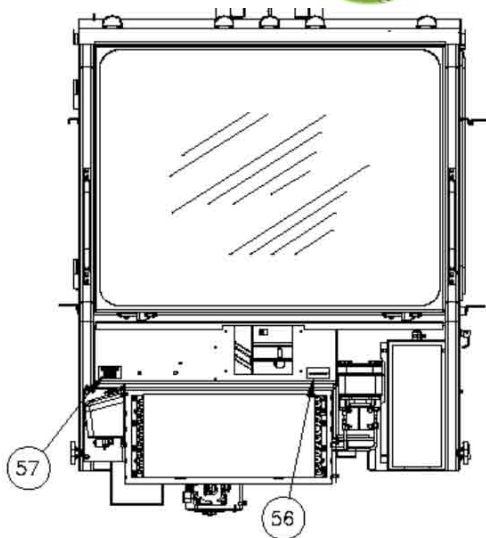


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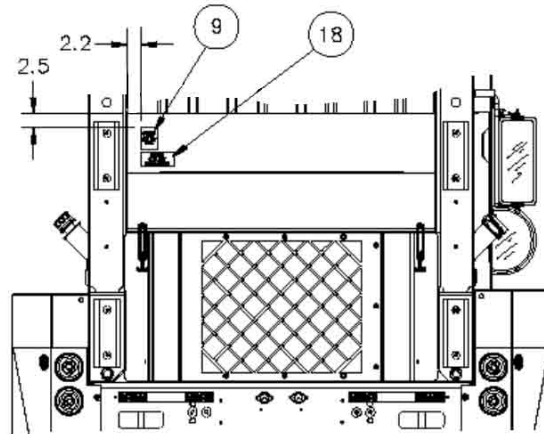
figure 1
page 2.4

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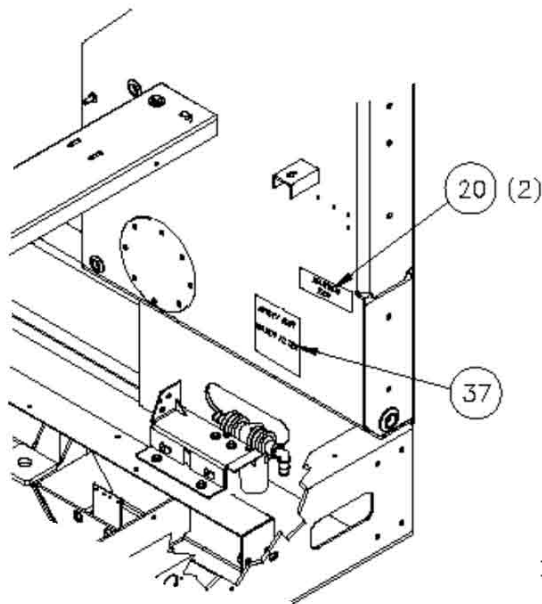




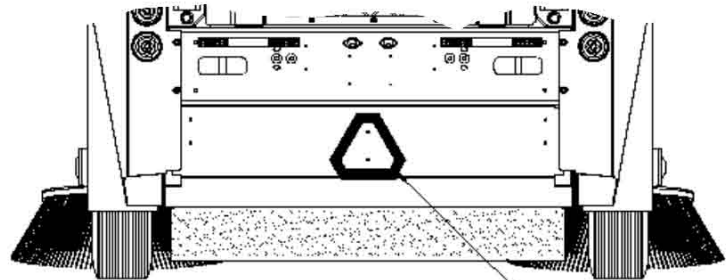
M-CAB
WITHOUT NOSEPIECE



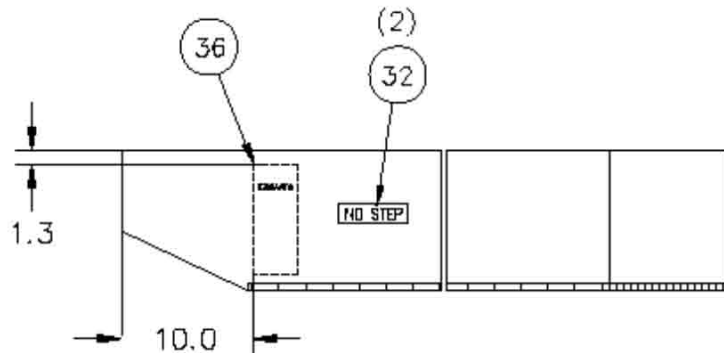
VIEW OF REAR ACCESS
DOOR IN RAISED POSITION



DETAIL E
HYDRAULIC TANK

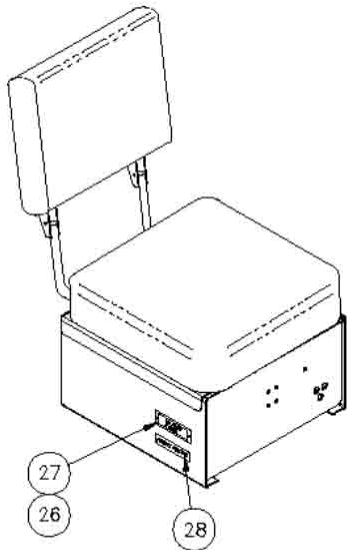


REAR VIEW
(OPTION ONLY)

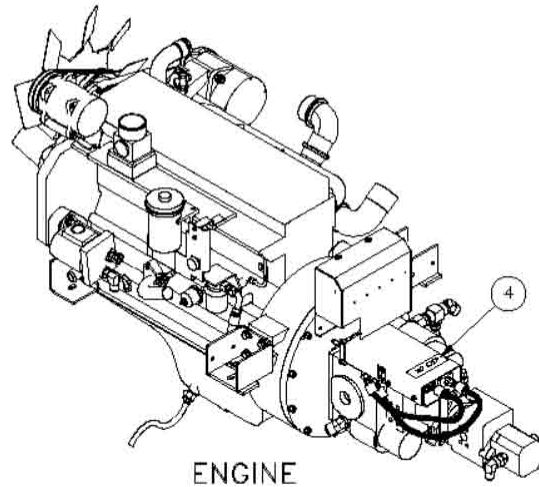


VIEW D-D
(TOP OF REAR FENDER)

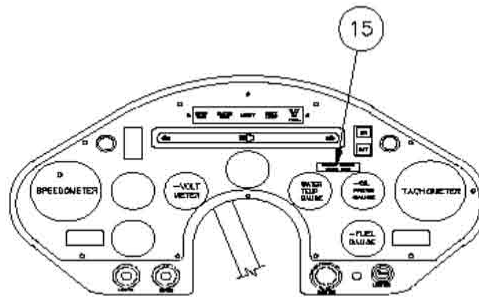
CHAPTER 2



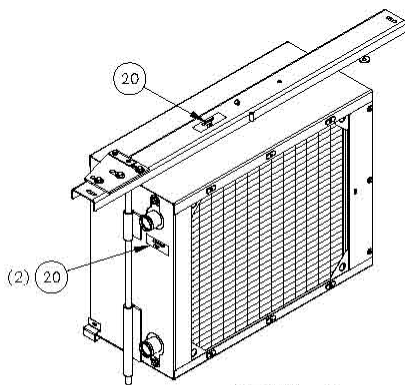
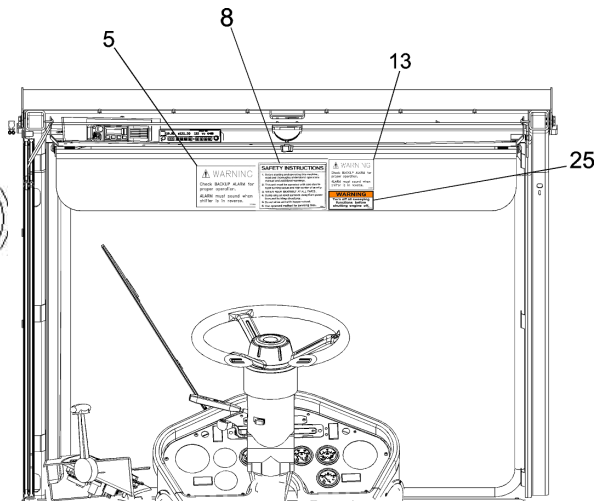
BUDDY SEAT



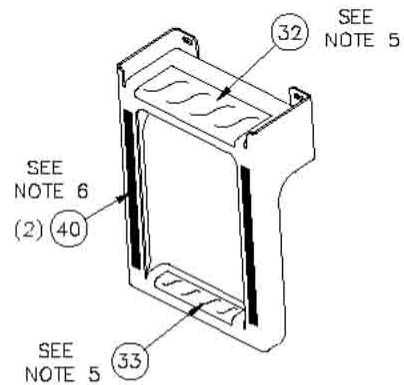
ENGINE



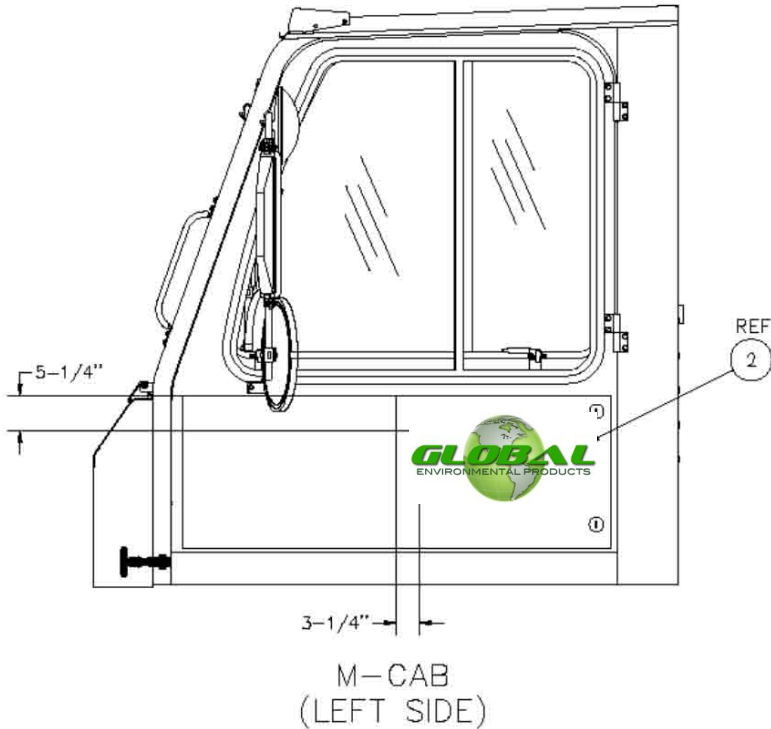
INSTRUMENT PANEL



**DETAIL C
RADIATOR SHROUD**



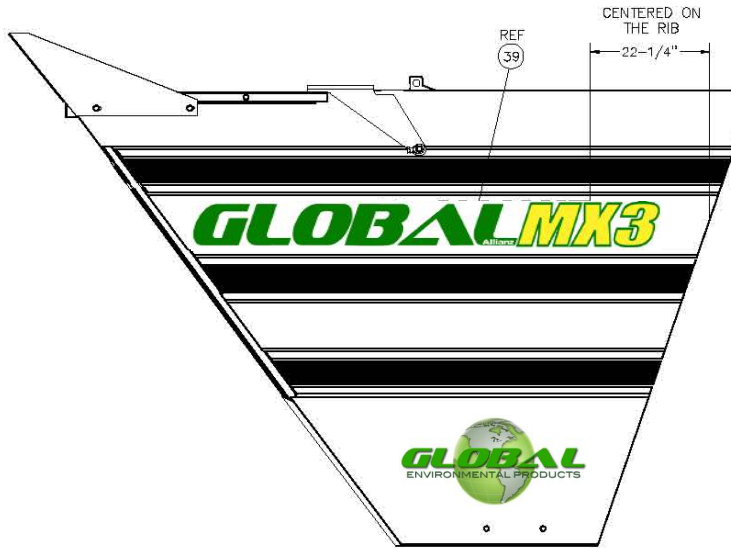
STEP WELDMENT



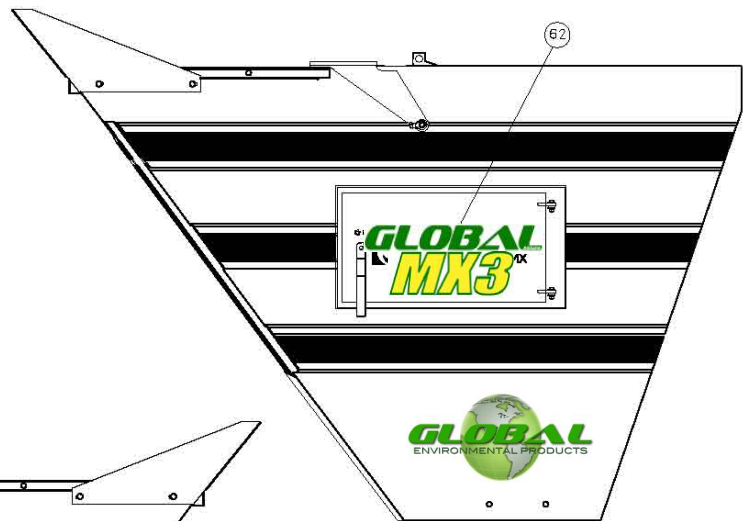
8. ITEM 17 GOES ON THE INSIDE OF THE PANEL, BELOW THE FUEL FILL
7. ITEM 16 GOES INSIDE THE PANEL ON THE ELEVATOR ITSELF, ONE ON EACH SIDE
6. APPLY IT. 40 TO FRONT & SIDES OF BOTH STEPS.
5. APPLY IT. 32 & 33 (NONSKID TAPE) TO STEPS.
4. IT 17 ON RIGHT SIDE CENTER BODY PANEL & BELOW FUEL CAP IT 16 ON CENTER BODY PANEL & ELEVATOR EACH SIDE
3. ATTACH IT. 24 (TAG) TO HOPP. SWITCH ON DASH (NOT SHOWN)
2. CUT HOPPER DECALS AFTER INSTALLATION. IT 38 CUT TO LENGTH AND CUT DECAL BETWEEN CENTER BODY AND HOPPER
1. FRAME, REAR GRILLE, ENGINE COVER, WATER TANK COVER, FENDERS, PANEL TRIM FENDERS, HOPPER, ROLLOVERS, CENTER BODY PANELS, GB PLATES, GB BEARINGS, ECU BOX, HI AMP BOX, CAB DOOR, CAB WELDMT, GOP, HPR WLDMT, TOP DOOR, HPR RODS, SERVICE DOOR, STEP AND TOOL BOX LID – ALL TO BE PAINTED "TGIC" CORVEL GRAY (ITEM 3). INSIDE WHEEL RIMS TO BE PAINTED BLACK.

NOTES, UNLESS OTHERWISE SPECIFIED

CHAPTER 2



STANDARD HOPPER
(RIGHT SIDE)



HOPPER WITH
SIDE DOOR OPTION
(RIGHT SIDE)



STANDARD HOPPER
(LEFT SIDE)

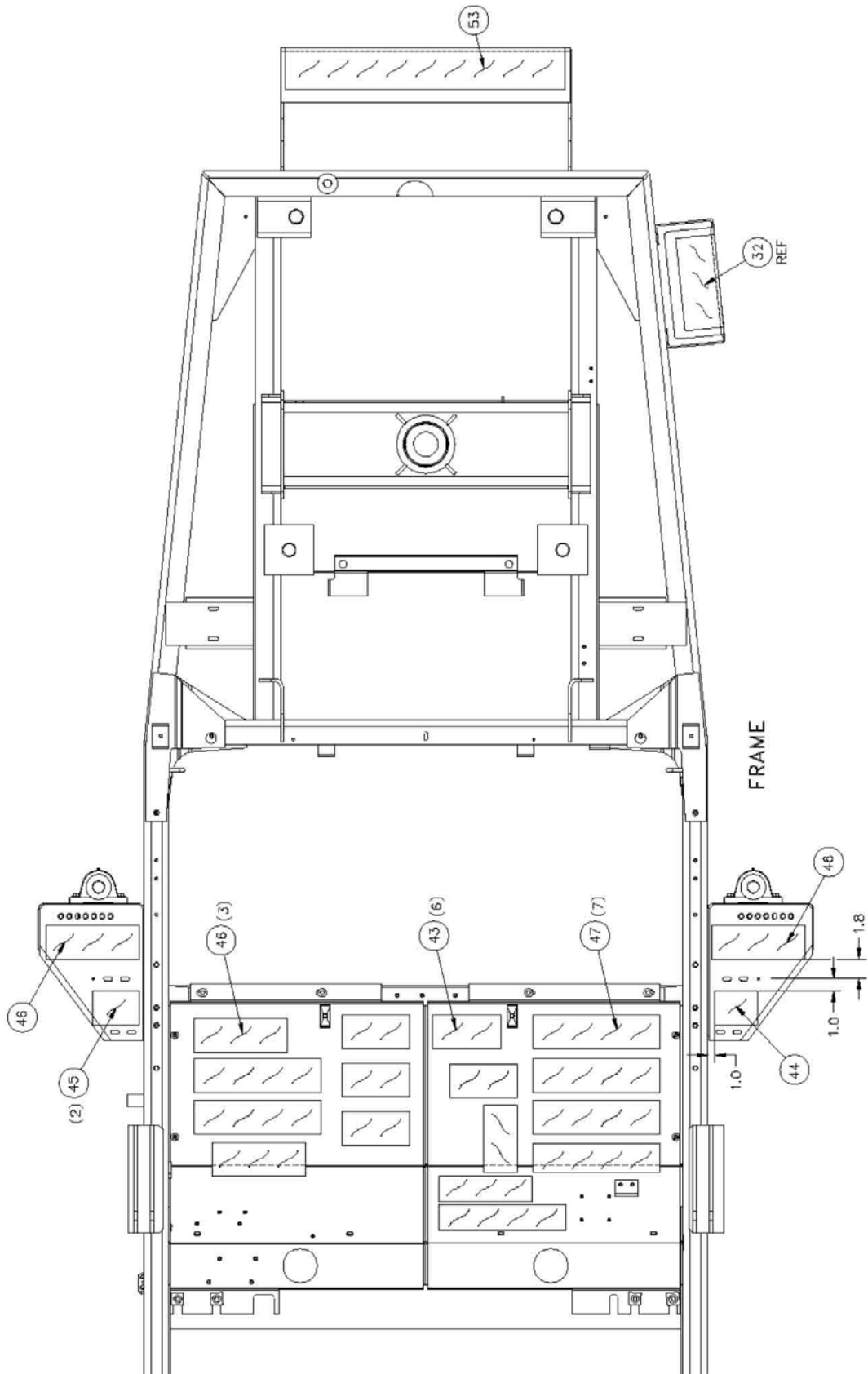
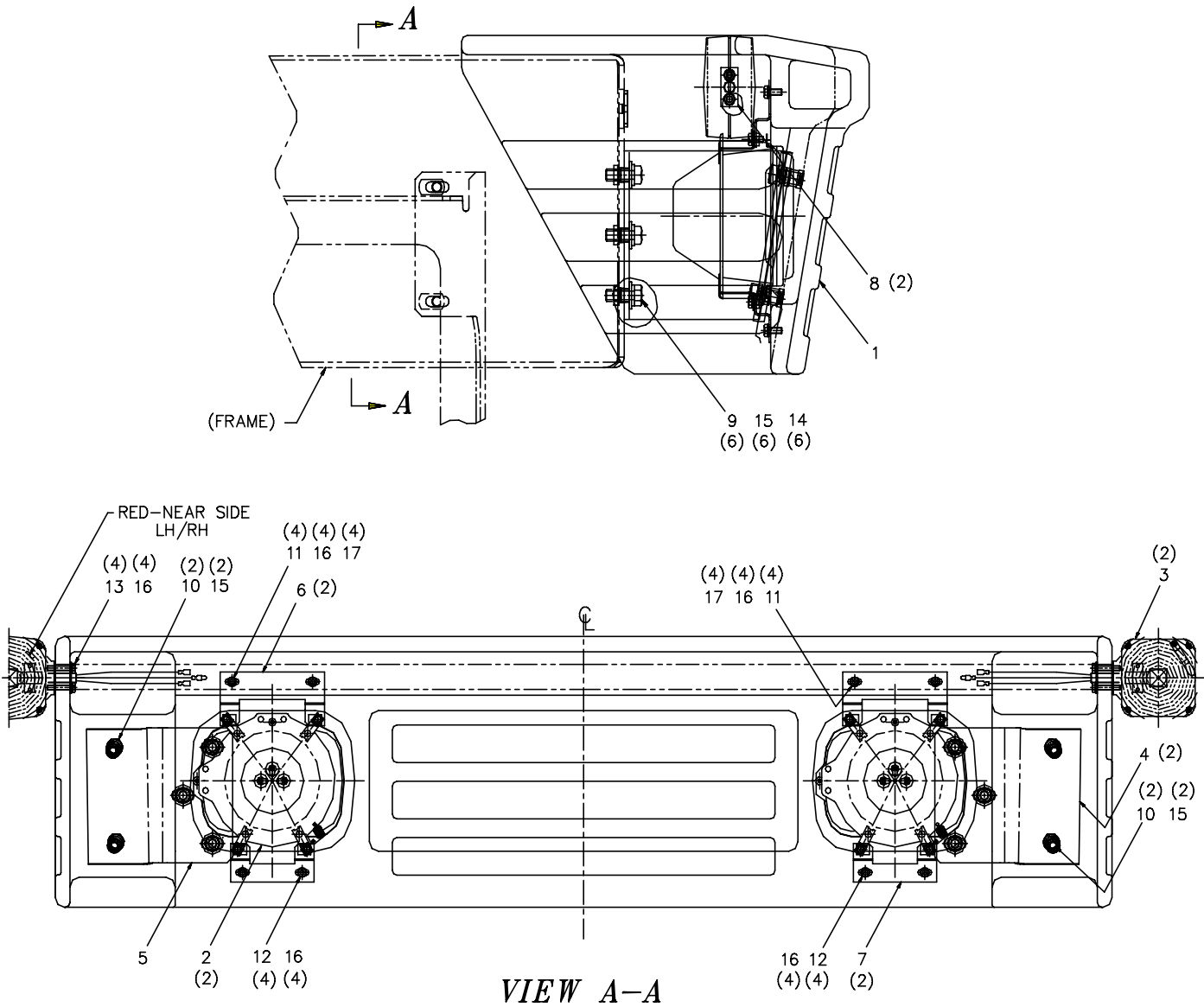


figure 1
page 2.10

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	306905	DECAL-WARNING SPRING LOADED	1
4	309023	DECAL - NO STEP (WHITE)	1
5	070426	DECAL-WARNING SUDDEN STOPS	1
6	301621	DECAL GB PLATE	2
8	302944	DECAL-SAFETY INSTRUCTIONS	1
9	305795	DECAL-CAUTION CHECK COOLNT LVL	1
10	301946	DECAL- DO NOT TOW	2
11	301962	DECAL- DO NOT DRIVE	1
12	309607	DECAL, JACKING M3	1
13	352889	DECAL-BACKUP ALARM	1
14	353638	DECAL- CLEAN SHAFTS DAILY	2
16	351659	DECAL- WARNING ELEVATOR	4
17	058616	DECAL #2 DIESEL FUEL	2
18	329607	DECAL - COOLANT NOTICE - JD	1
19	10876-7	U.S. FLAG LABEL	2
20	302822	DECAL- WARNING FAN	5
21	052422	DECAL-WARNING INSTALL PROPS	2
22	306421	DECAL-TOWING PROCEDURE	1
23	306998	DECAL - JACK PAD (BLACK)	2
25	326428	DECAL-ENGINE SHUT-OFF	1
26	306223	VIN PLATE 3 WHL	2
27	023708	SCR- DRIVE TYPE U PLD #6 X 1/4	1
28	313741	DECAL-PATENTS PENDING	2
29	322283	DECAL-HYDRAULIC OIL AW46	2
30	306997	DECAL - NO JACK (BLACK)	2
31	306996	DECAL - NO STEP (BLACK)	12
32	897176012	NON-SKID TAPE 6" X 12"	1
33	896854	NON-SKID TAPE,2" WIDE (.08334)	1
35	312595	DECAL-SINGLE BATTERY CONN	1
36	302460	DECAL STRAINER	1
37	323312	DECAL- SPRAY BAR WATER FILTER	1
38	375251	DECAL-HOPPER STRIPE GREEN	6
39	375246	DECAL-GLOBAL M3 HOPPER SIDE	2
40	896688	TAPE-1" RED REFLECTIVE	2
41	311177	DECAL- WARNING HYD OIL	2
42	896851	TAPE-CONSPICUITY,RED/WHITE,2"	4.32
43	896853008	NON-SKID TAPE	2
44	896853005	NON-SKID TAPE	1
45	896853006	NON-SKID TAPE	2
46	896853012	NON-SKID TAPE	2
47	896853016	NON-SKID TAPE 4" X 16	7
48	896853018	NON-SKID TAPE 4" X 18"	2

49	321843	DECAL- WATER DRAIN	2
53	897176033	NON-SKID TAPE 6" X 33"	1
54	325092	DECAL, HYD MANIFOLD	1
55	325337	DECAL, REMOTE GREASE	1
56	352853	DECAL-WINDSHIELD WASHER RESERV	1
57	353362	DECAL - REFRIGERANT	1
58	329723	DECAL, ECU-BOX, M3JD	1
59	329724	DECAL, ECU-BOX COVER, M3JD	1
60	325202	DECAL, GB SHAFT LUBE DAILY	2
66	326431	DECAL-CLEAN RADIATOR DAILY	1



1. ALIGN THE BUMPER ASSY TO BE PARALLEL TO THE FIBERGLASS FRONT PANEL.

NOTES:



Bumper Installation

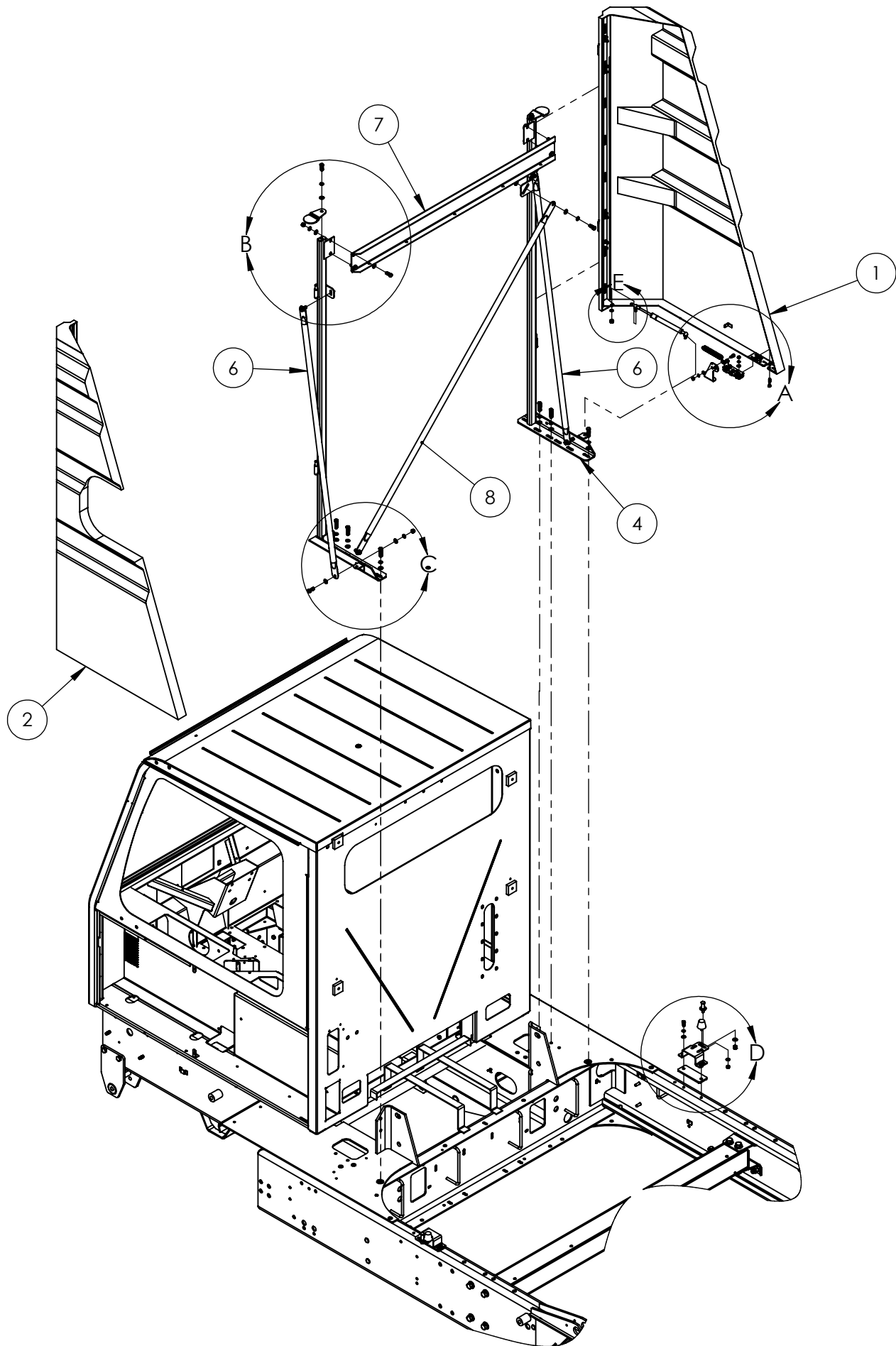
CHAPTER 2

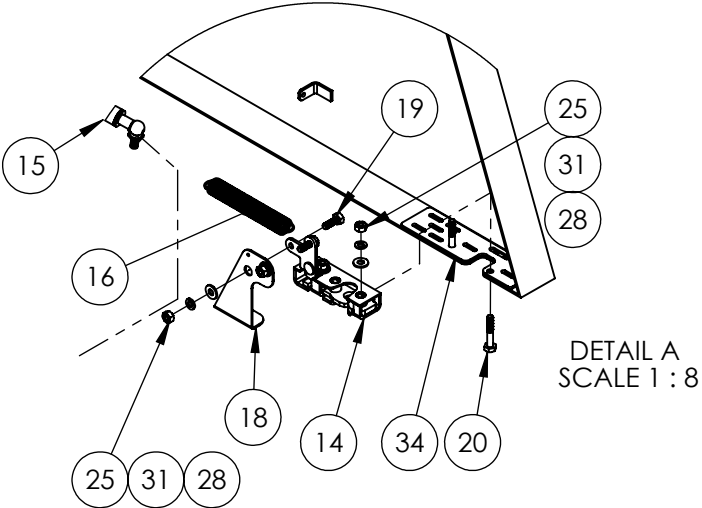
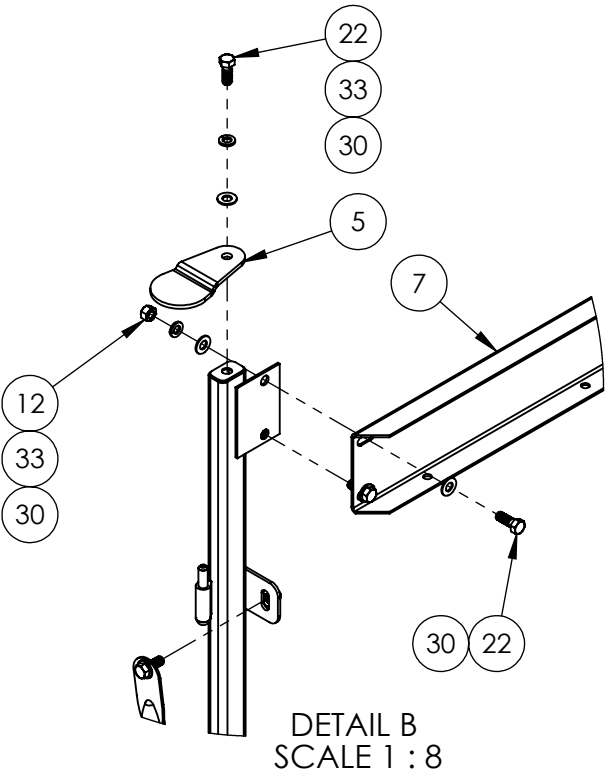
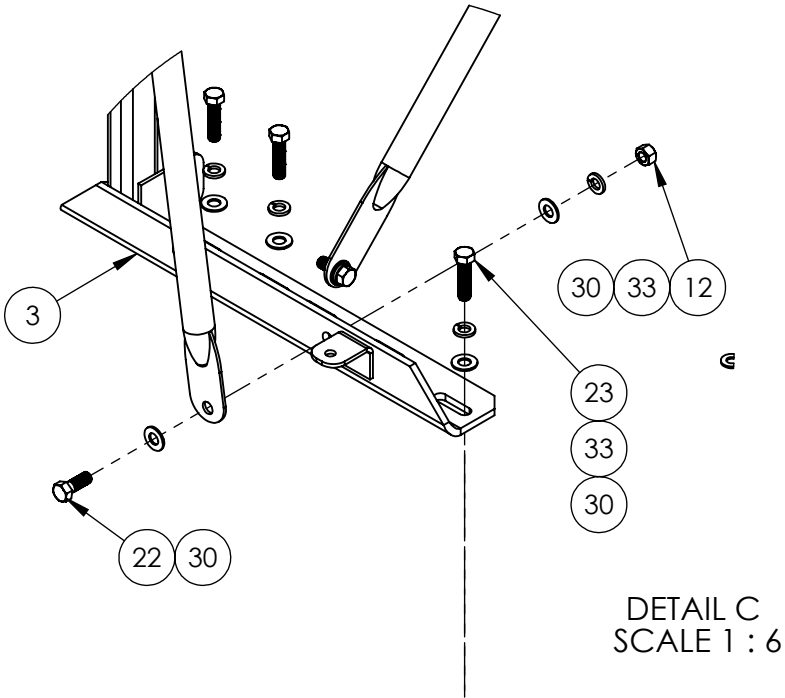
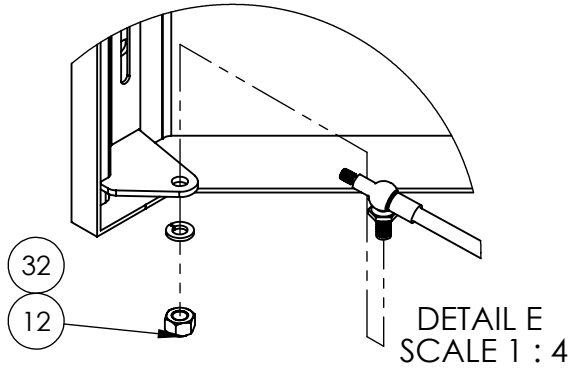
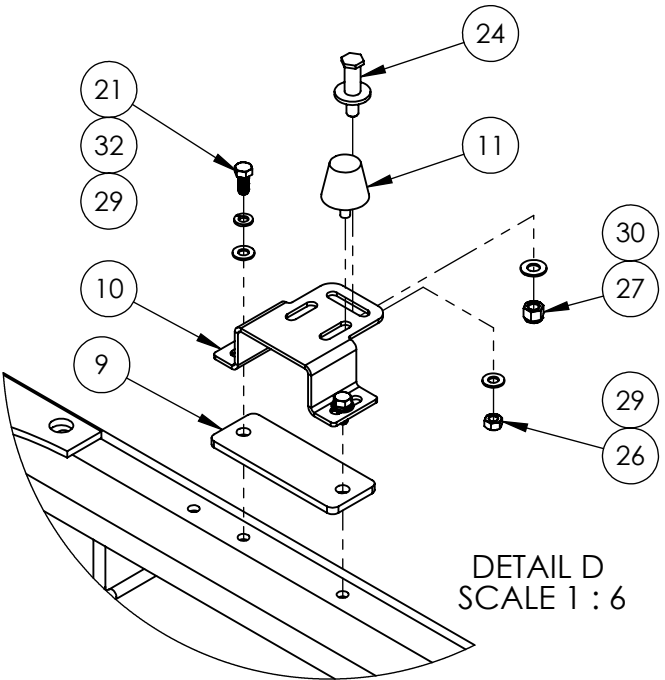
Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	317855	Bumper Installation	D Ref	11	026205	Scr-Hx Hd,Pltd,1/4-20x5/8	8
1	324776	Bumper- Polyethylene (Black)	1	12	031428	Scr-Hx Hd,Pltd,1/4-20x1/2 Gr8	8
2	309909	Headlamp Assy. - Halogen	A 2	13	461903	Scr-Hx Hd Cap,1/4-20x1-3/8	4
3	317834	Lamp Rework-Turn Signal	2	14	023687	Washer-Flat,Sae,Plated,1/2	6
	203398	Lamp Turn Signal	F 1	15	030592	Washer-Lock,Split,Pltd,1/2 Gr8	10
	316024	Connector-bullet, Fem, 0.156	2	16	030643	Washer-Lock,Split,Pltd,1/4 Gr8	A 16
	039196	Term 16-14	1	17	609606	Washer-Flat,Sae,Plated,1/4	8
	601097	Terminal - Plug	1				
	893810	Wire 16 Ga Black	A 12				
4	317703	Bracket-Mtg,Bumper,Rh	A 1				
5	317704	Bracket-Mtg,Bumper,Lh	A 1				
6	317708	Bracket-Lamp Mtg,Top	2				
7	317709	Bracket-Lamp Mtg,Bottom	2				
8	317705	Plate-Backing	2				
9	033150	Scr-Hx Hd,Plt,1/2-13x1-1/4 Gr8	6				
10	041850	Scr-Hx Hd Cap,1/2-13x1 Gr8	4				



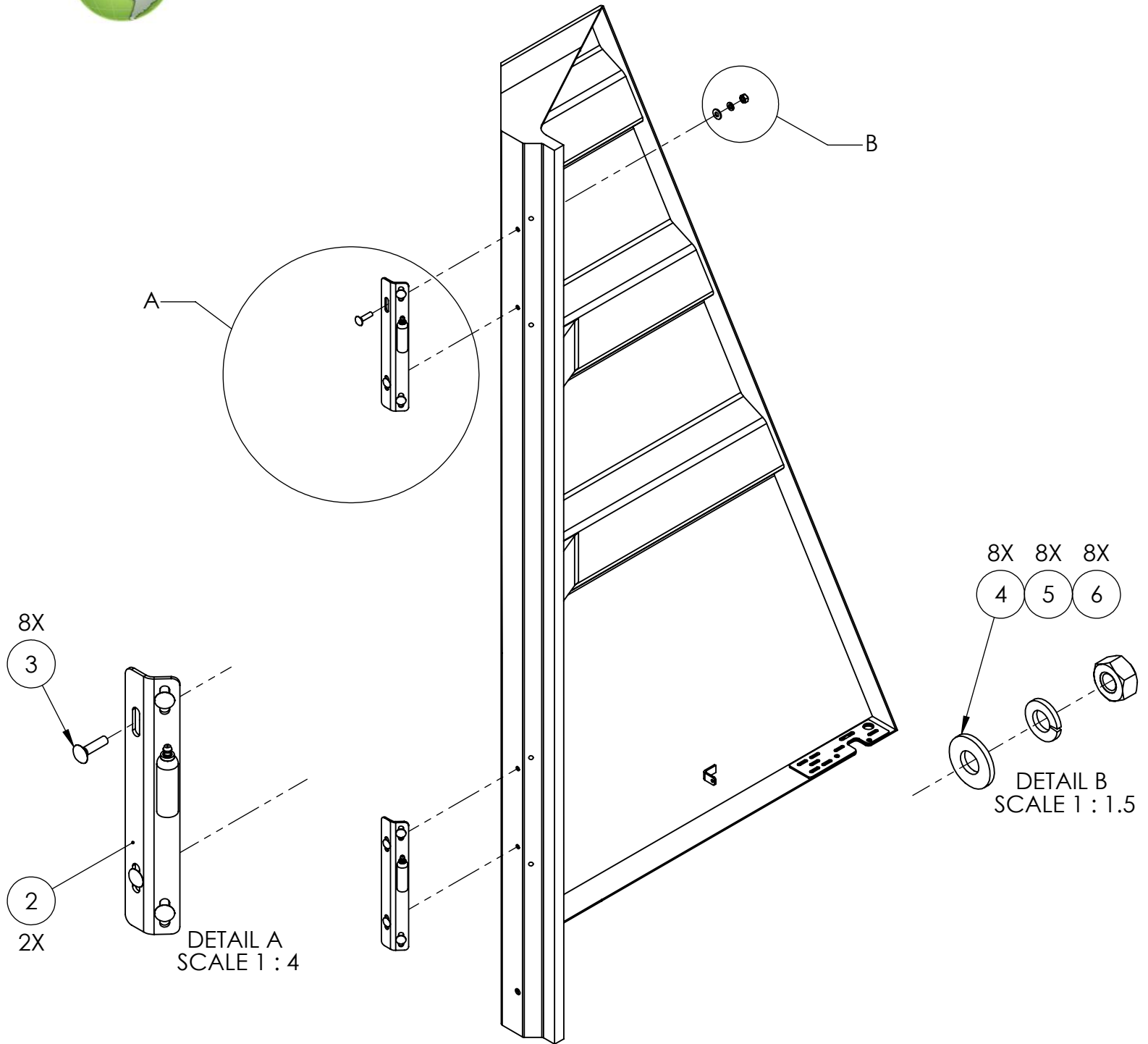


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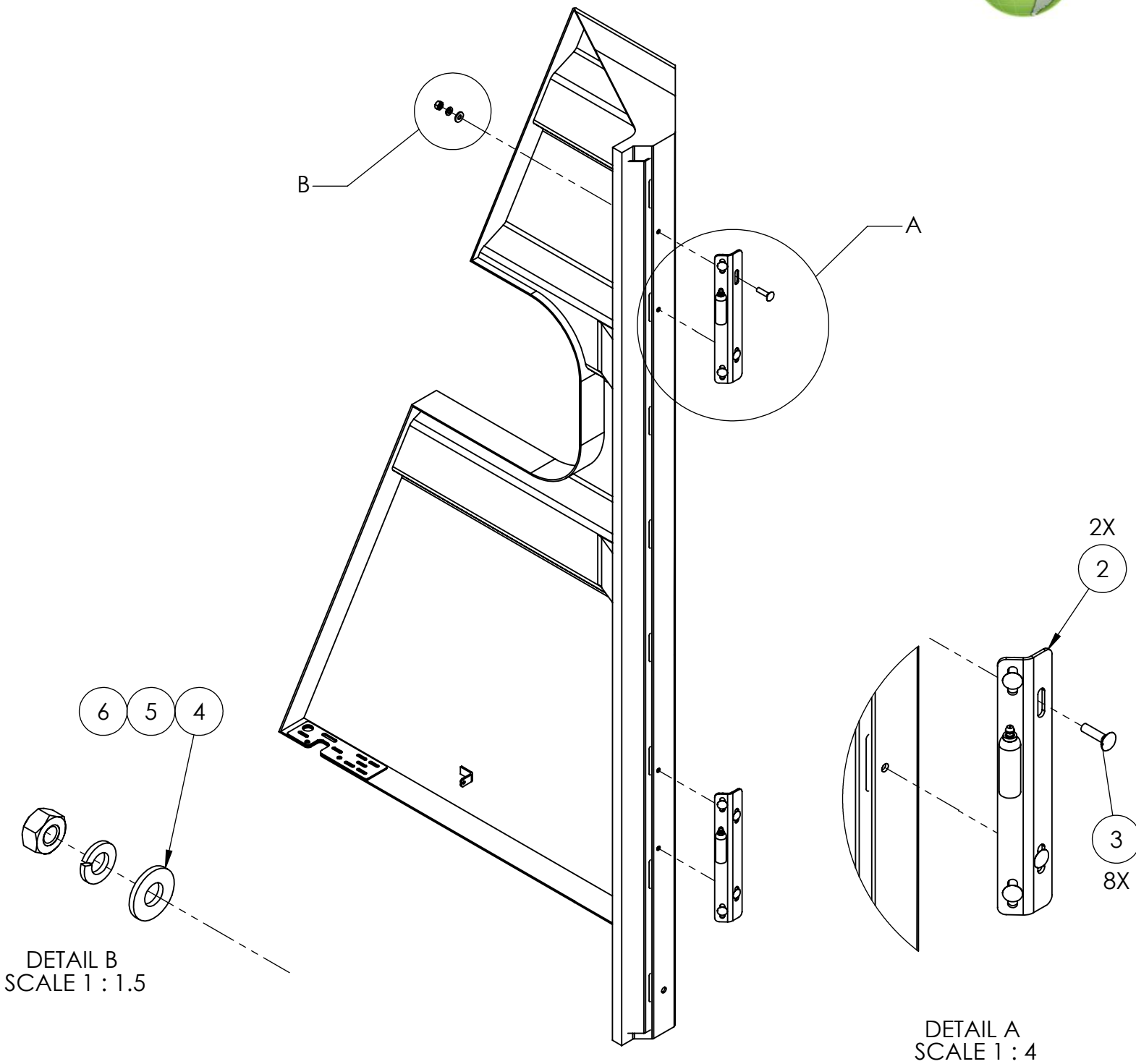




ITEM NO.	PART NO.	DESCRIPTION	QTY.
REF	330293	CENTER BODYPANEL, INSTALLATION	REV B
1	330254	ASSEMBLY, FIBERGLASS BODY PANEL, RH	1
2	330255	ASSEMBLY, FIBERGLASS BODY PANEL, LH	1
3	328054	PANEL SUPPORT WELDMENT, - LH	1
4	328053	PANEL SUPPORT WELDMENT, (RH)	1
5	319354	PLATE - STOP, CENTER BODY PANEL	2
6	325236	SUPPORT TUBE, BODY PANELS	2
7	323816	CHANNEL, BRACE	1
8	325237	SUPPORT TUBE, BODY PANELS	1
9	325057	PLATE, STRICKER SPACER	2
10	324898	ANGLE, STRIKER STAND OFF	2
11	350767	BUMPER -DOOR	2
12	030599	NUT, HEX, 3/8-16-UNC	14
13	324896	LATCH MECHANISM, LEFT	1
14	317172	LATCH MECHANISM, RIGHT	1
15	355377	GAS SPRING ASSY, SIDE PANEL	2
16	319113	SPRING-EXTENSION (.750 O.D. X 5.00 LG.)	2
17	324899	ANGLE, PANEL HANDLE (LH)	1
18	324900	ANGLE, PANEL HANDLE (RH)	1
19	033145	BOLT,HEX,HEAD,Ø 1/4-20-UNC x 3/4"LG	4
20	023802	BOLT,HEX,HEAD,Ø 1/4-20-UNC x 1 1/2"LG	4
21	030483	BOLT,HEX,HEAD,5/16-18-UNC x 3/4"LG	2
22	034423	BOLT,HEX,HEAD,3\8-16-UNC x 1" LG. GR8	12
23	034422	BOLT,HEX,HEAD,3/8-16-UNC x 1 1/2"LG	6
24	325064	STRIKER BOLT, LONG	2
25	030703	NUT, HEX, 1/4-20-UNC	8
26	609400	NUT, HEX , 5/16-24-UNF	2
27	023885	NUT,HEX,NYLON LOCK,3/8-16-UNC	2
28	609606	WASHER,FLAT,Ø 1/4",SAE NARROW	8
29	651420	WASHER,FLAT,Ø 5\16", SAE NARROW, 11/16" O.D.	4
30	038266	WASHER,FLAT,Ø 3/8",SAE NARROW	30
31	030643	WASHER,SPRING LOCK,Ø 1/4"	8
32	030373	WASHER,SPRING LOCK,Ø 5/16"	6
33	030605	WASHER,SPRING LOCK,Ø 3/8"	18
34	329989	DUBLER PLATE	2



ITEM NO.	PART NO.	DESCRIPTION	QTY.
REF	330254	CENTER BODY PANEL ASSY, FIBERGLASS, RH	REV B
1	329687	CENTER BODY PANEL, FIBERGLASS, RH	1
2	356457	HINGE-CENTER PANEL WLDMT, (RH)	2
3	325747	Bolt, Carriage, Round Head, 1/4-20-unc x 1" lg.	8
4	609606	WASHER, FLAT, Ø 1/4", SAE NARROW	8
5	030643	WASHER, SPRING LOCK, Ø 1/4"	8
6	030703	NUT, HEX, 1/4-20-UNC	8



ITEM NO.	PART NO.	DESCRIPTION	QTY.
REF	330255	BODY PANEL FIBERGLASS ASSY, LH	REV B
1	329688	CENTER BODY PANEL, FIBERGLASS, LH	1
2	356458	HINGE-CENTER PANEL WLDMT, (LH)	2
3	325747	Bolt, Carriage, Round Head, 1/4-20-unc x 1" lg.	8
4	609606	WASHER, FLAT, Ø 1/4", SAE NARROW	8
5	030643	WASHER, SPRING LOCK, Ø 1/4"	8
6	030703	NUT, HEX, 1/4-20-UNC	8

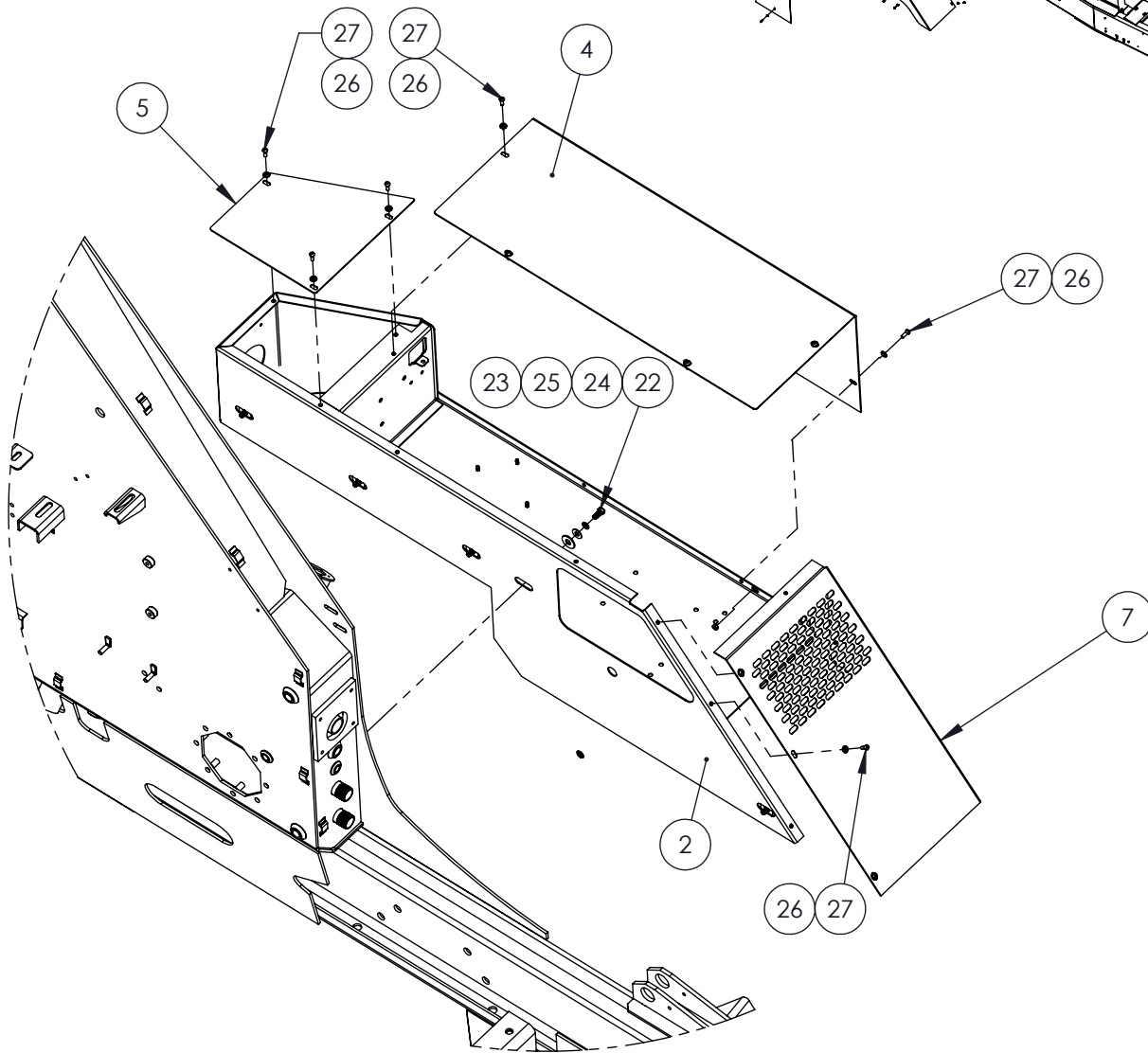
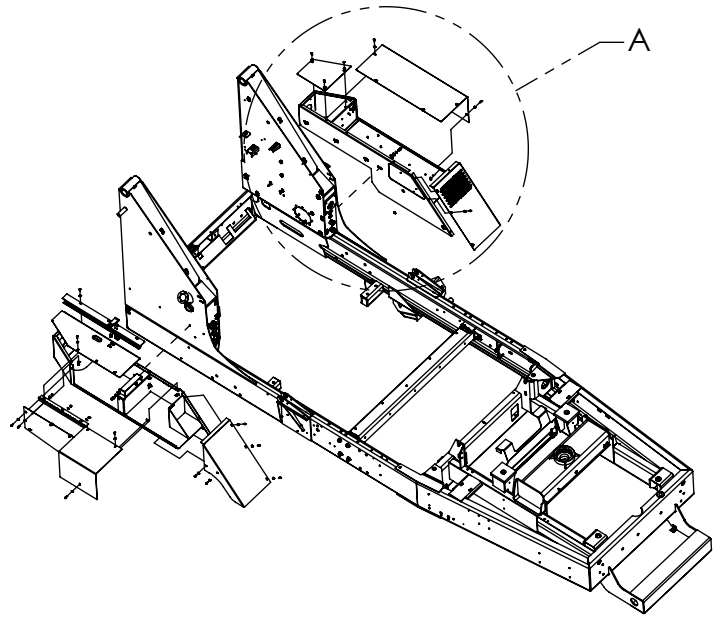


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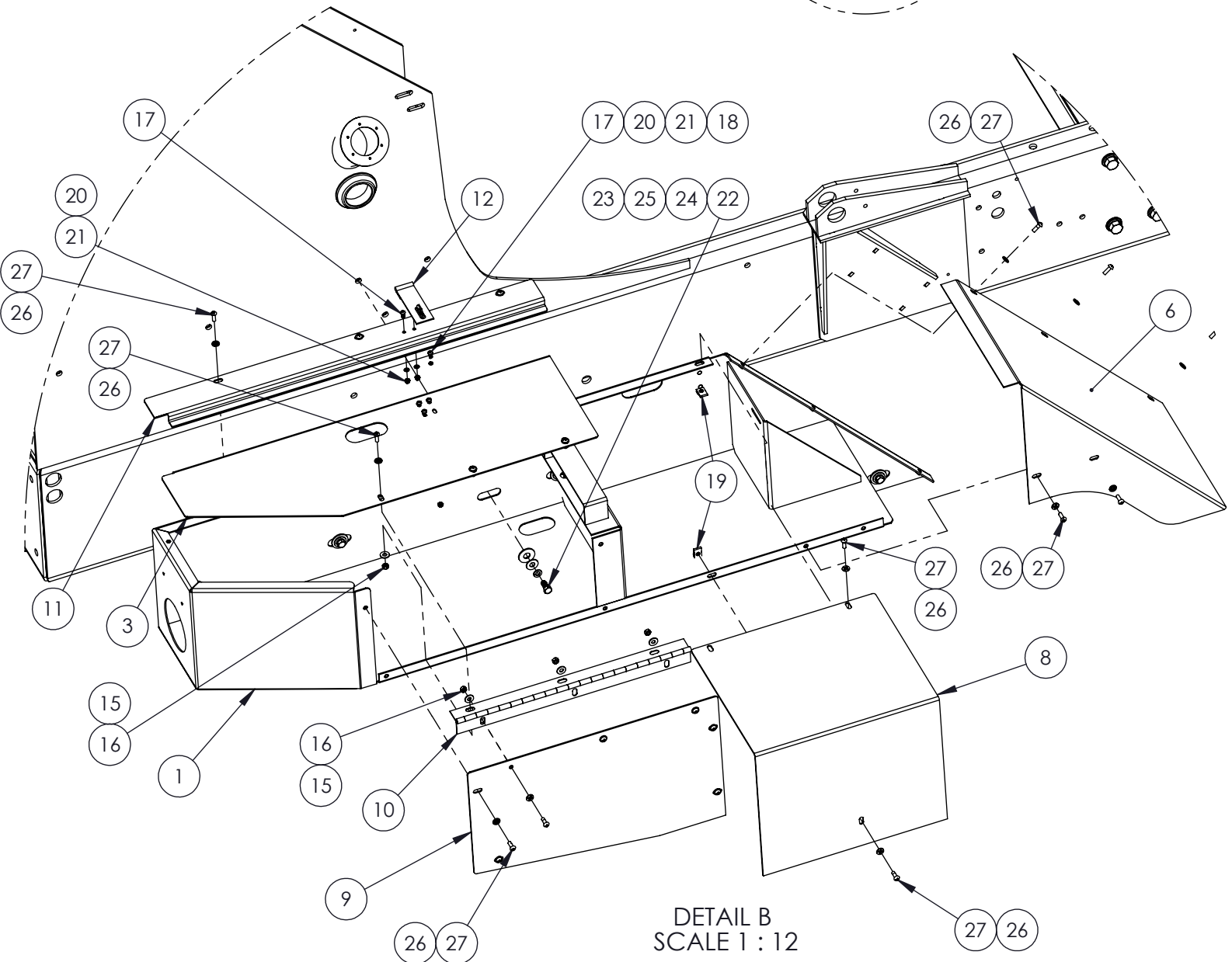
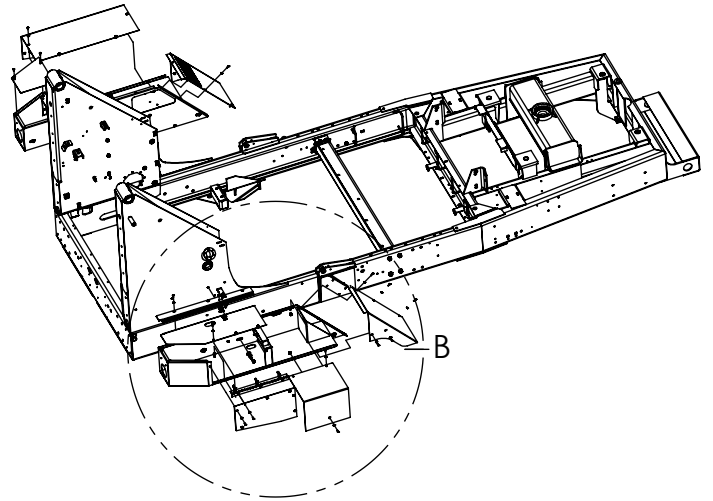
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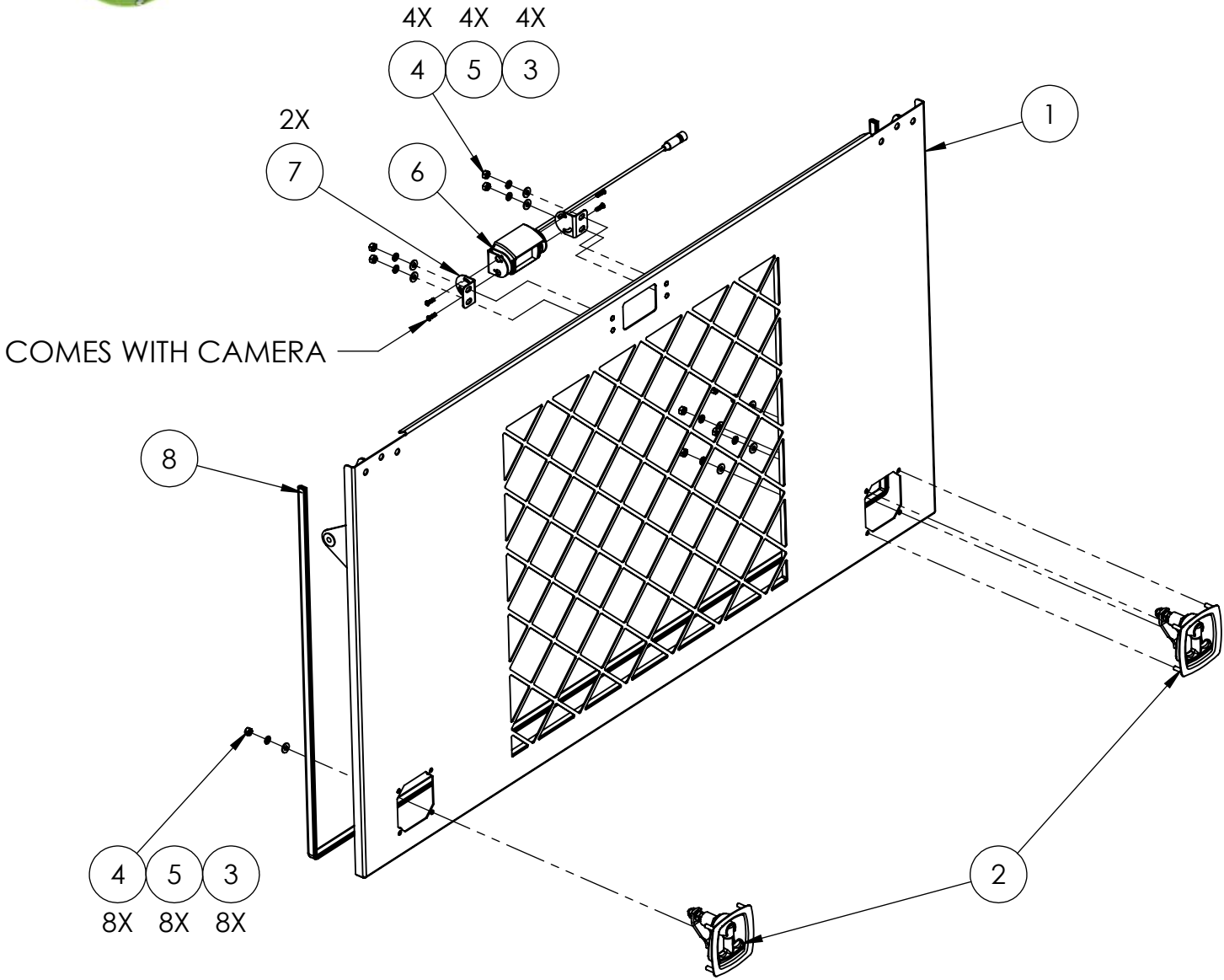


DETAIL A
SCALE 1 : 16

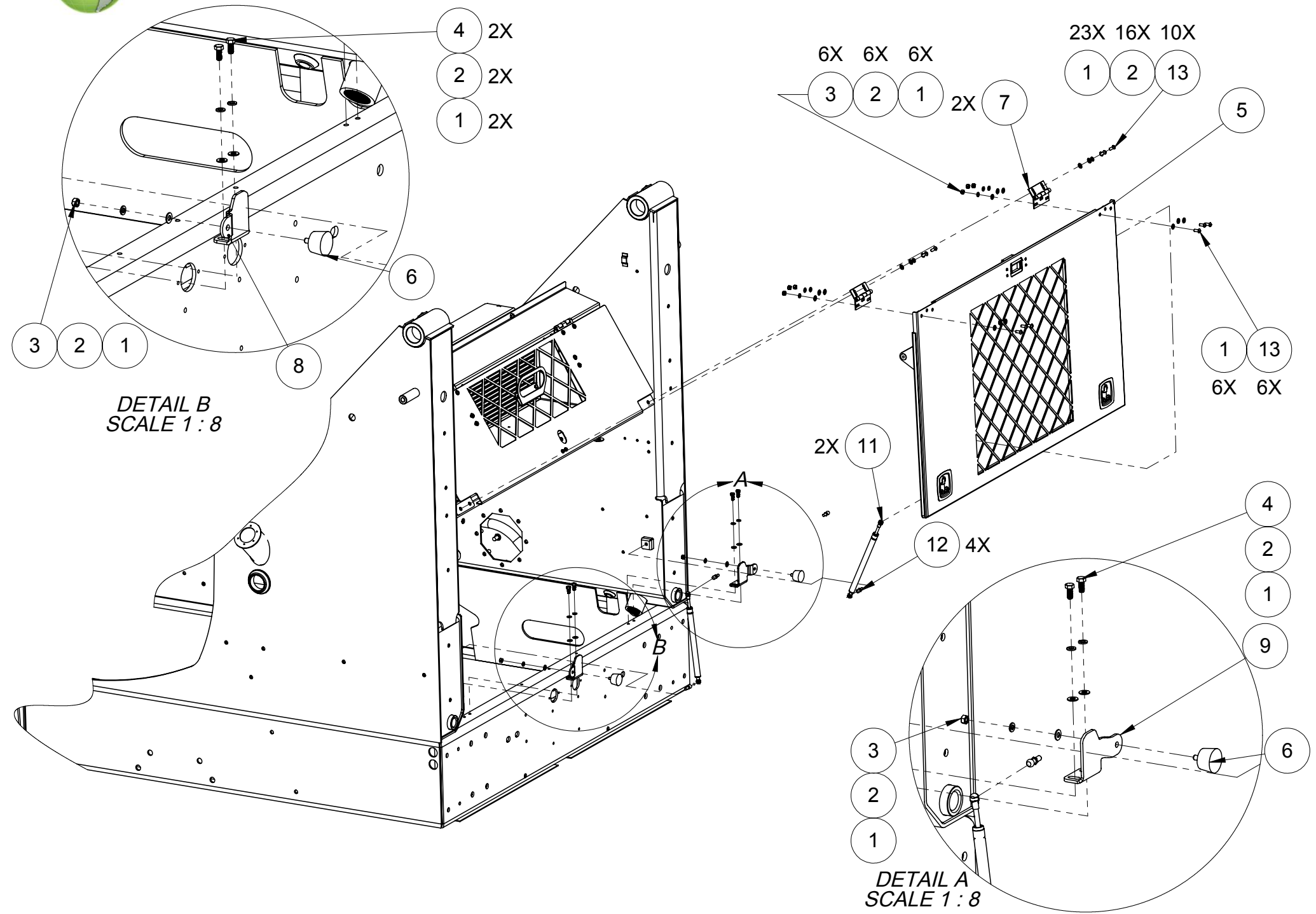




ITEM	PART	DESCRIPTION	QTY
REF	325007	FENDER INSTL, REAR	REV B
1	323978	FENDER BATTERY (RH) SIDE, WELDMENT	1
2	323584	FENDER W MANIFOLDS (LH) WELDMENT	1
3	E323982	FENDER, TOOL BOX, LID	1
4	E323576	COVER, FENDER (LH)	1
5	E323581	PLATE, WATER TANK COVER	1
6	E323989	FENDER, COVER (RH)	1
7	E323592	FENDER, FRONT COVER WELDMENT (LH)	1
8	E323991	PLATE, BATTERY COVER	1
9	E323990	PLATE, FENDER PANEL (RH)	1
10	E323986	HINGE 20.3 LG	1
11	E323980	PANEL, FENDER LID SUPPORT	1
12	E352793	LATCH-REWORK	1
14	030643	WASHER,SPRING LOCK,Ø 1/4"	2
15	035605	WASHER,FLAT,Ø 1/4",USS,(3/4" O.D.)	8
16	030703	NUT, HEX, 1/4-20-UNC	8
17	099335	SCREW,PAN HEAD,FLAT DRIVE,#10-24-UNC X 1/2" LG.	6
18	035604	WASHER,SPRING LOCK,Ø #10	4
19	323844	NUT, PANEL 1/4"-20, "U" TAP FIT. 150"BLK	3
20	036645	WASHER,FLAT,Ø #10,SAE NARROW	6
21	036860	NUT, KEPS #10-24 (ZP)	6
22	039809	BOLT,HEX,HEAD,3/8-16-UNC x 7/8"LG	11
23	030595	WASHER,FLAT,Ø 1/2",USS,(1 3/8" O.D.)	11
24	030605	WASHER,SPRING LOCK,Ø 3/8"	11
25	030557	WASHER,FLAT,USS,Ø 3/8"	11
26	660715	WASHER, NYLON SELF-RETAINING	34
27	331279	SCREW, ROUND HD CROSS,#1/4-20-UNC X 3/4"LG.	34



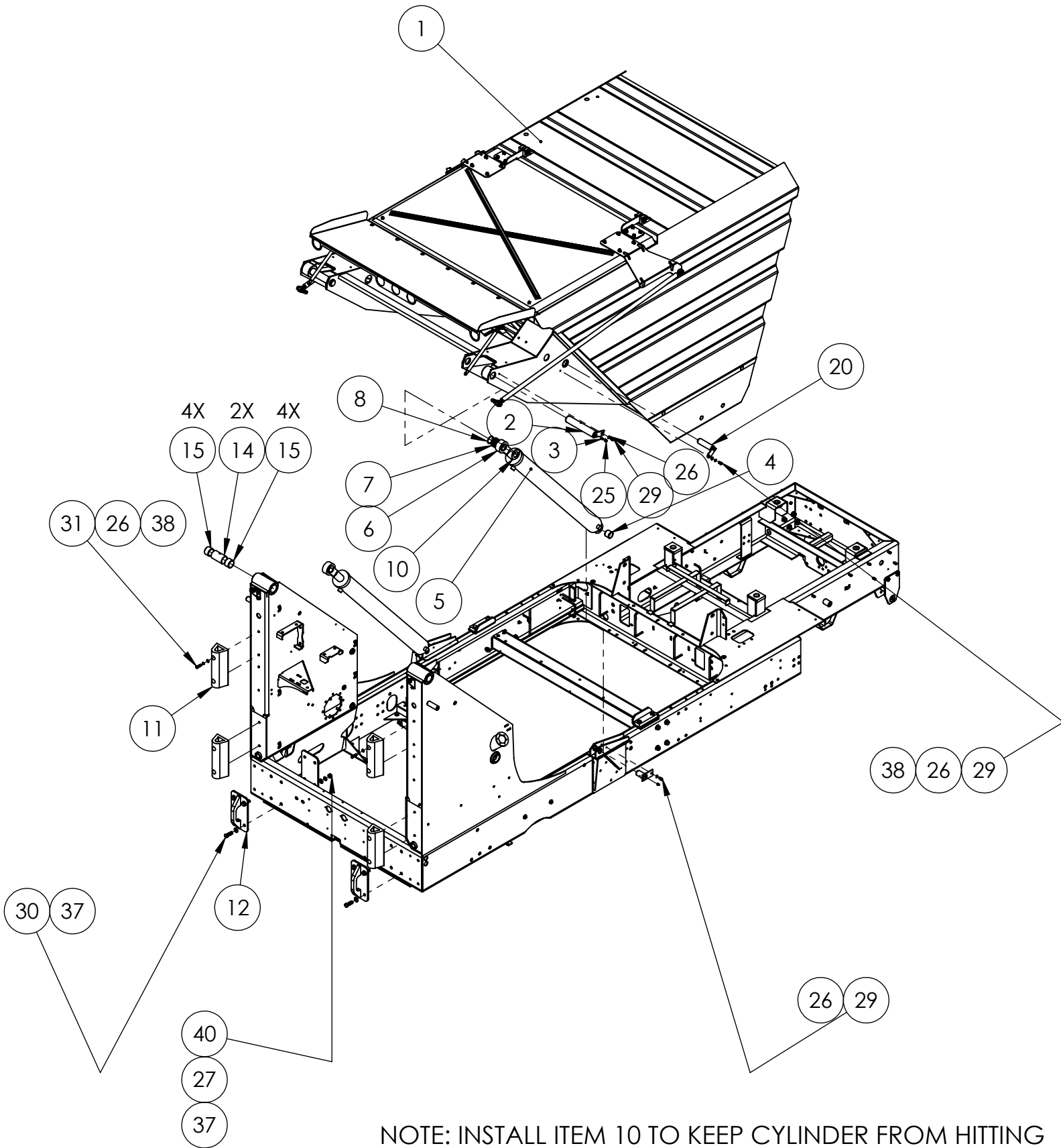
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
REF	331198	REAR GRILLE ASSEMBLY	REV A
1	331192	WELDMENT, REAR GRILLE	1
2	121898	T-HANDLE, COMPRESSION LATCH, NON LOCK	2
3	609606	WASHER, FLAT, Ø 1/4", SAE NARROW	12
4	030703	NUT, HEX, 1/4-20-UNC	12
5	030643	WASHER, SPRING LOCK, Ø 1/4"	12
6	330080	REAR CAMERA, COLOR FIXED HIRES	1 REF
7	356969	ANGLE-BRACE CAMERA, ADJUST	2
8	8937040108	PLASTIC TRIM	1



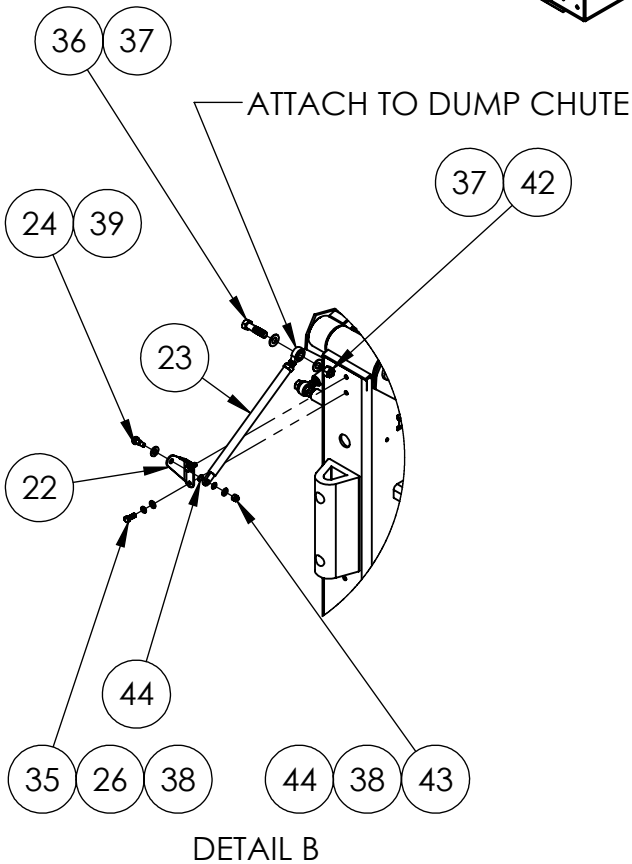
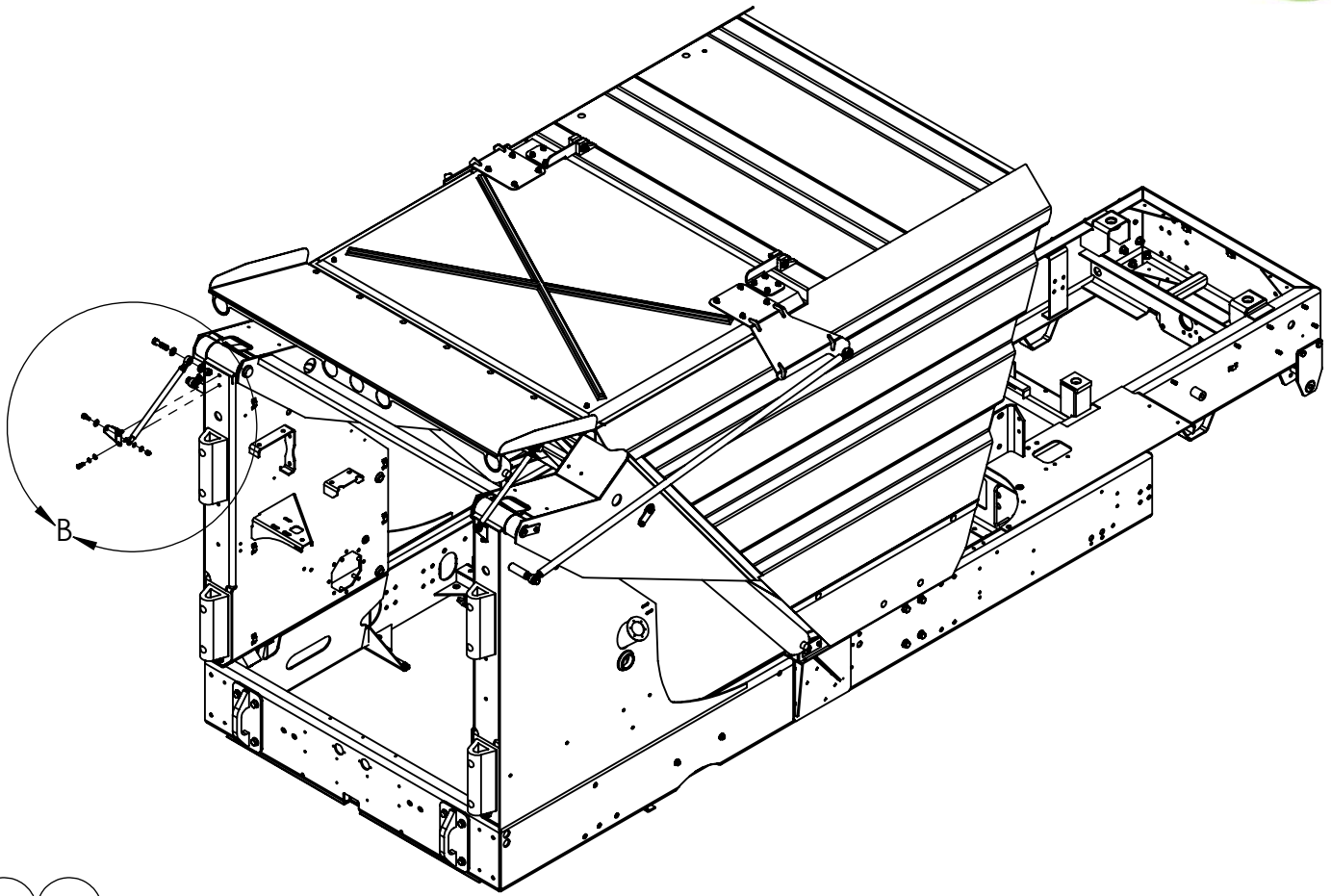
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
REF	331173	REAR GRILLE INSTALLATION, M3	REV B
1	651420	WASHER,FLAT,Ø 5\16", SAE NARROW, 11/16" O.D.	23
2	030373	WASHER,SPRING LOCK,Ø 5/16"	16
3	030617	NUT, HEX, 5/16-18-UNC	8
4	030483	BOLT,HEX,HEAD,5/16-18-UNC x 3/4"LG	4
5	331198	REAR GRILLE ASSEMBLY	1
6	355343	BUMPER RUBBER	2
7	353109	HINGE 3" STAINLESS STEEL (N)	2
8	331393	ANGLE, LOCKING LATCH, (LH) SIDE	1
9	331392	ANGLE, LOCKING LATCH, (RH) SIDE	1
11	331241	GAS SPRING 8" STROKE 60LB	2
12	330750	BALL STUD, LARGE	4
13	331242	SCREW,BUTTON HEAD,SOCKET CAP,5/16-18-UNC X 3/4" LG. (SS)	10



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NOTE: INSTALL ITEM 10 TO KEEP CYLINDER FROM HITTING HOPPER WALL AS NEEDED.



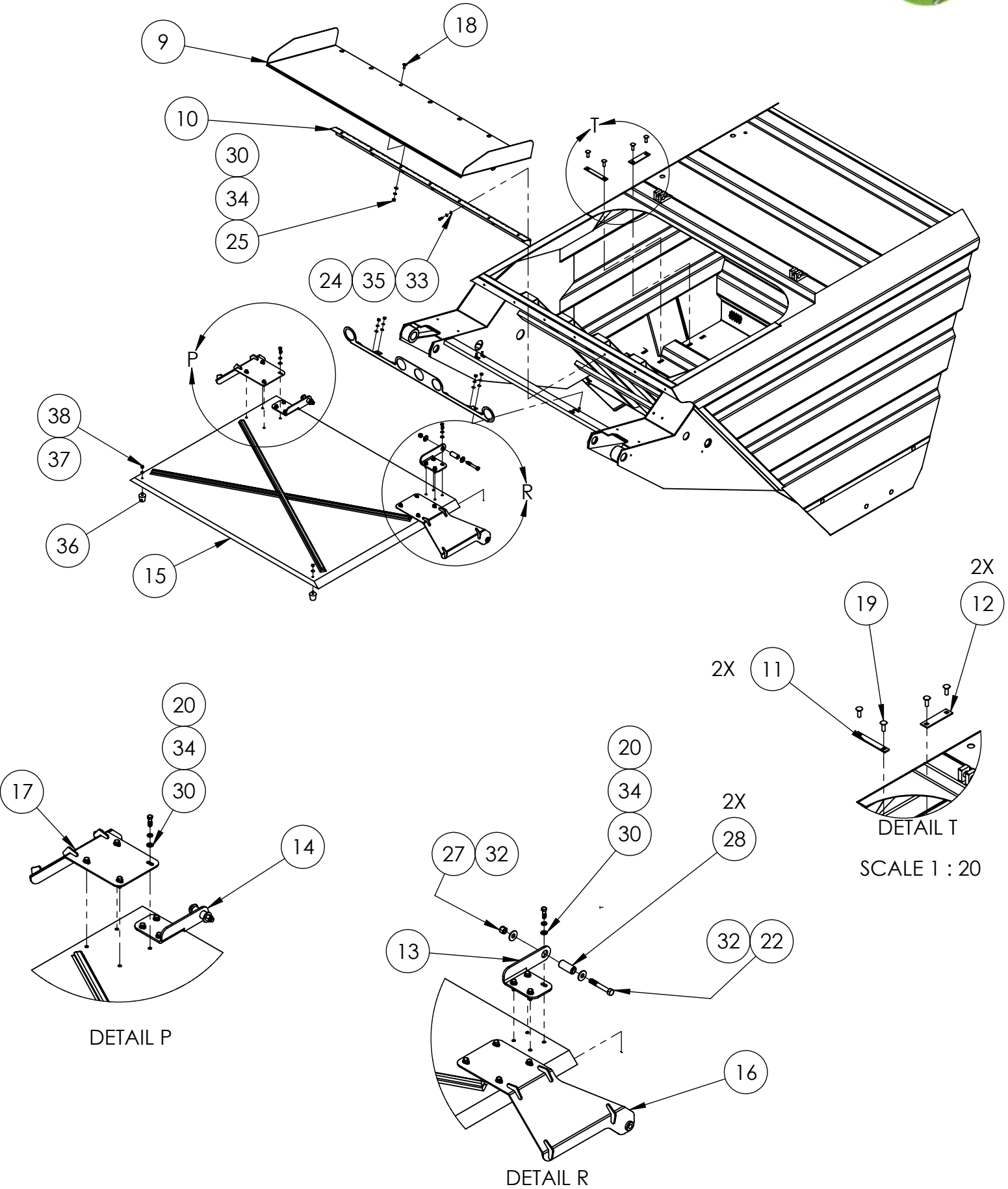
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	329847	HOPPER ASSEMBLY 2013 HIGH DUMP	1
2	301718	PIN, PIVOT HOPPER WELD'T	2
3	30287	GREASE ZERK STRAIGHT 1/8" Pipe Thread	4
4	70934	BUSHING LINKAGE	1
5	318440	HYD. CYL. 4.00" BORE X 44.44" STROKE	2
6	70949	ROD END-TILT CYL.	2
7	70988	BEARING, RADIAL	1
8	70991	RETAINING RING, INTERNAL, N5000-244	1
9	300401	PIVOT PIN, WELDMENT	2
10	E319370	SHIM 3"OD X 1 3/4"ID	2
11	E309464	DOCK BUMPER	4
12	325433	TOW HOOK WELDMENT	2
13	325432	PLATE, TOW HOOK	2
14	301726	TUBE	2
15	E070540	BUSHING LINKAGE	4
16	E314134	SHIM HOPPER REST PAD	2
17	E316457	ANGLE- STOP	2
18	E313009	PAD	2
19	317968	ROD ASSEMBLY, HIGH DUMP	2
20	E301714	PIVOT - PIN WELDMENT	2
21	329891	TOWER BRACKET RH	1
22	329903	TOWER BRACKET LH	1
23	329894	ASSEMBLY, LINKAGE, STANDARD	2
24	330314	SCREW, SHOULDER, Ø1/2x1/2"LG(3/8-16)	2
25	311745	CAPLUG - GREASE FITTING	2
26	30605	WASHER, SPRING LOCK, Ø 3/8"	18
27	31146	WASHER, SPRING LOCK, Ø 5/8"	13
28	30592	WASHER, SPRING LOCK, Ø 1/2"	2
29	33147	BOLT, HEX, HEAD, 3/8-16-UNC x 3/4"LG	6
30	323618	BOLT, HEX, HEAD, 5/8-11-UNC x 2"LG	8
31	34422	BOLT, HEX, HEAD, 3/8-16-UNC x 1 1/2"LG	8
32	41847	BOLT, HEX, HEAD, 1/2-13-UNC x 1 3/4"LG	2
33	90075	BOLT, HEX, HEAD, 5/16-18-UNC x 1"LG	2
34	91488	BOLT, HEX, HEAD, 5/8-18-UNF x 3" LG	2
35	34423	BOLT, HEX, HEAD, 3\8-16-UNC x 1" LG. GR8	4
36	305467	BOLT, HEX, HEAD, 5/8-11-UNC x 2 1/2"LG	2
37	35561	WASHER, FLAT, Ø 5/8"	25
38	38266	WASHER, FLAT, Ø 3/8", SAE NARROW	16
39	23687	WASHER, FLAT, SAE, Ø 1/2"	4
40	30420	NUT, HEX, 5/8-11-UNC	9
41	32945	NUT, HEX, JAM, 5/8-18-UNF	4
42	38598	NUT, HEX, NYLON LOCK, 5/8-11-UNC	2
43	23885	NUT, HEX, NYLON LOCK, 3/8-16-UNC	2
44	318052	WASHER, FLAT, NYLON, Ø1/2" ID, Ø11/16" OD	4

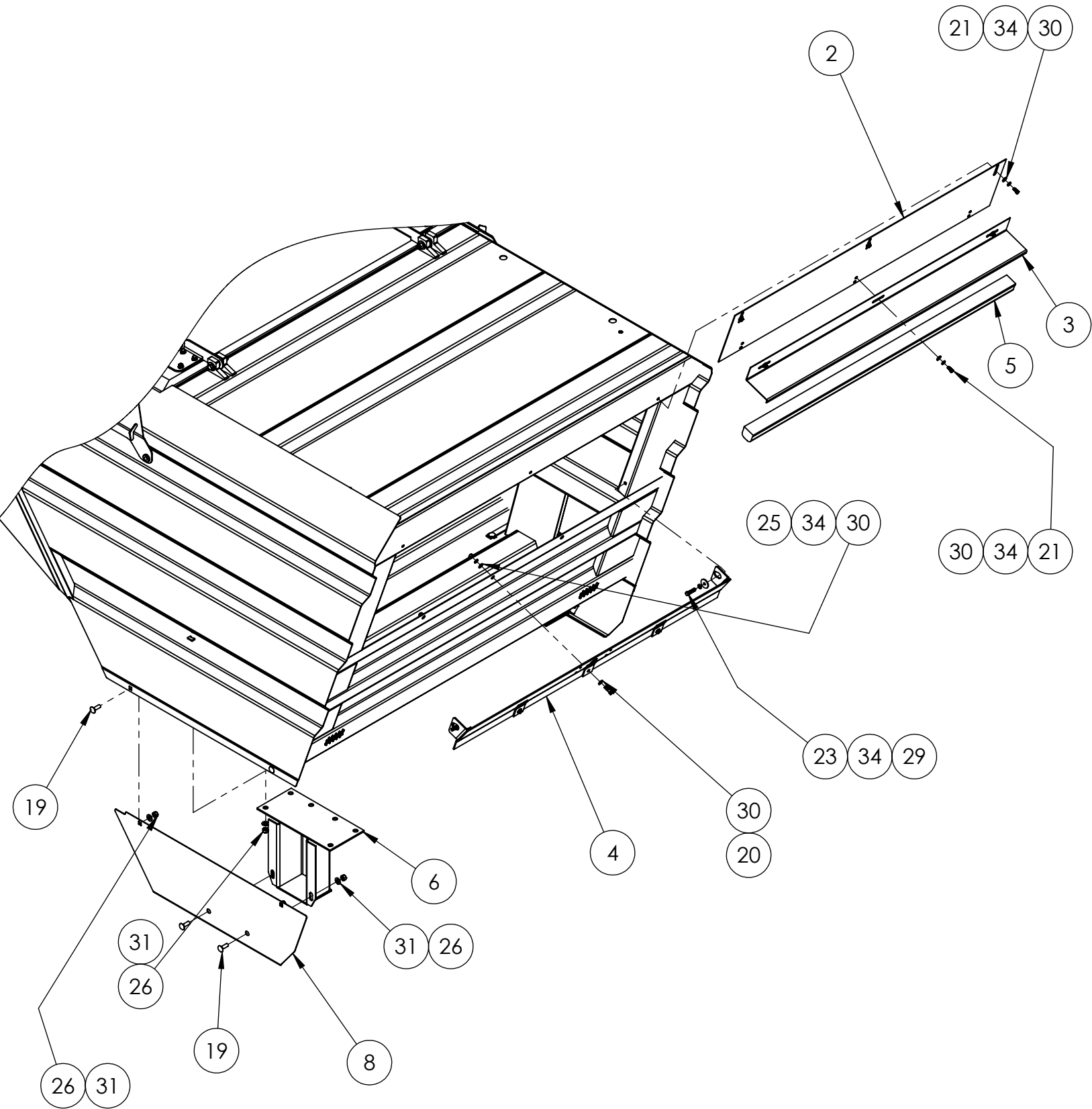




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HOPPER ASSEMBLY





ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	329524	WELDMENT, HOPPER (2013)	1
2	325305	ELEVATOR SEAL SUPPORT BRACKET, WLDMT	1
3	325306	SUPPORT, ELEVATOR TOP SEAL	1
4	322574	RUBBER SEAL - ELEVATOR, TOP	1
5	317304	WELDMENT SUPPORT, HOPPER	2
6	329709	PANEL EXTENSION, LH, HOPPER (2013)	1
7	329710	PANEL EXTENSION, RH, HOPPER (2013)	1
8	326312	HOPPER LIP WELDMENT	1
9	316409	PLATE-STIFFENER, LONG	2
10	316454	PLATE-STIFFENER, SHORT	2
11	329690	DOOR, FIBERGLASS, 64", HOPPER (2013)	1
12	329696	CHANNEL, RH PIVOT	1
13	329702	CHANNEL, LH PIVOT	1
14	317969	SLEEVE - HINGE, DOOR	2
15	329694	WELDMENT, LEVER, RH	1
16	329695	WELDMENT, LEVER, LH	1
17	329926	HINGE, DUMP CHUTE	1
18	329895	WELDMENT, DUMP CHUTE, EXTENDED	1
19	324967	BUMPER DOOR 1 1/2", HIGH	2
20	030373	WASHER, SPRING LOCK, Ø 5/16"	11
21	030605	WASHER, SPRING LOCK, Ø 3/8"	34
22	651420	WASHER, FLAT, Ø 5\16", SAE NARROW, 11/16" O.D.	6
23	038266	WASHER, FLAT, Ø 3/8", SAE NARROW	35
24	030595	WASHER, FLAT, Ø 1/2", USS, (1 3/8" O.D.)	4
25	023687	WASHER, FLAT, SAE, Ø 1/2"	16
26	609606	WASHER, FLAT, Ø 1/4", SAE NARROW	7
27	91059	NUT, HEX, NYLON LOCK, 5/16-24-UNF	2
28	034599	NUT, HEX, NYLON LOCK, 1/2-13-UNC	2
29	033139	BOLT, HEX, HEAD, 3/8-16-UNC x 1 1/4" LG	19
30	033232	BOLT, HEX, HEAD, 1/2-13-UNC x 3 1/2" LG	2
31	030483	BOLT, HEX, HEAD, 5/16-18-UNC x 3/4" LG	6
32	034422	BOLT, HEX, HEAD, 3/8-16-UNC x 1 1/2" LG	2
33	033145	BOLT, HEX, HEAD, Ø 1/4-20-UNC x 3/4" LG	7
34	030599	NUT, HEX, 3/8-16-UNC	10
35	030596	NUT, HEX, 1/2-13-UNC	16
36	E606999	WASHER	2
37	031284	BOLT, CARRIAGE, ROUND HEAD, 1/2-13-UNC x 1 1/2" LG.	16
38	325772	BOLT, CARRIAGE, ROUND HEAD, 3/8-16-UNC x 1" LG.	7
39	330848	WELDMENT, LIGHT BAR	1
40	030617	NUT, HEX, 5/16-18-UNC	4



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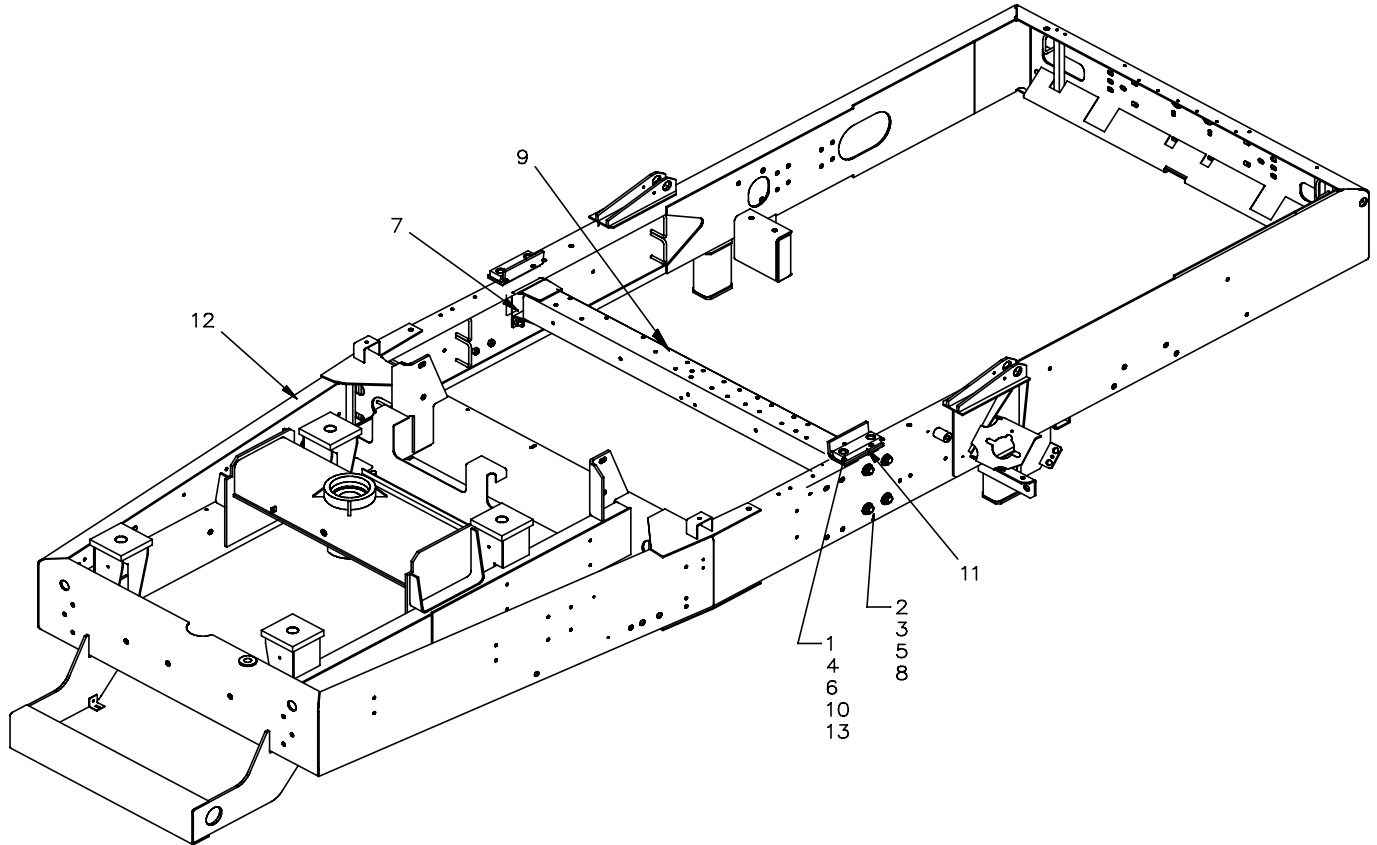
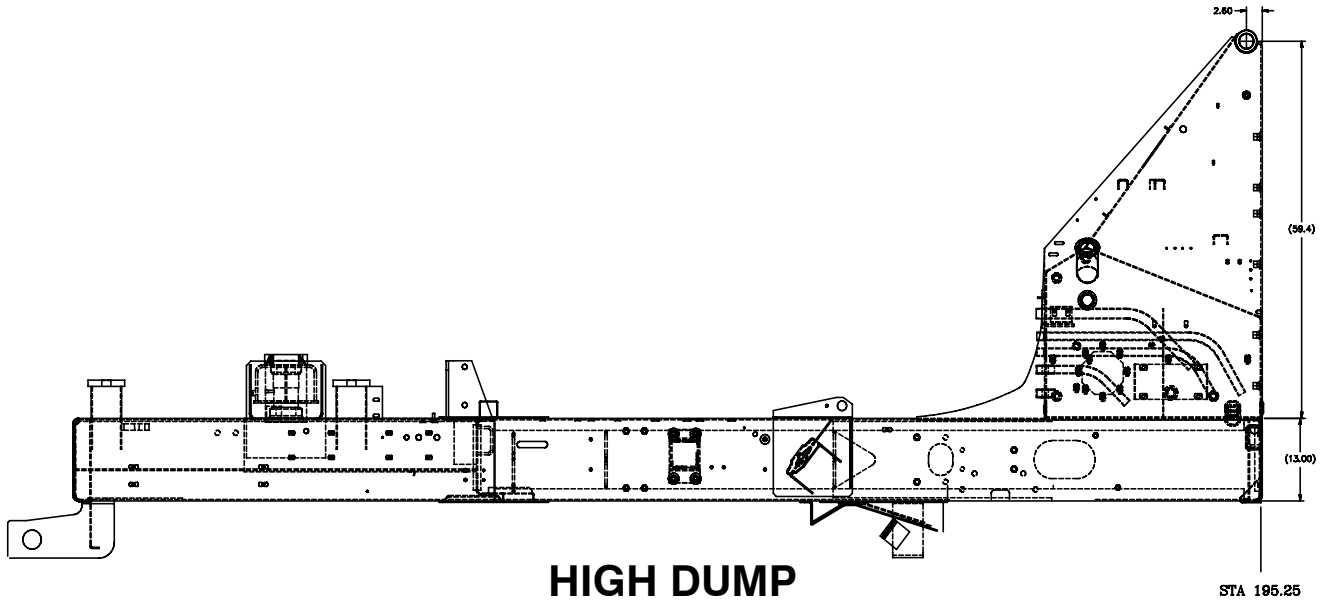


figure 9
page 2.39



Frame Assembly

CHAPTER 2

Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	243450	Tower & Main Frame HD	*F Ref	11	314134	Shim, Hopper Rest	A/R
1	023687	Washer- Flat, 1/2	4	12	323538	Main Frame	1
2	030420	Nut- Hex, 5/8	8	13	316457	Angle Stop	2
3	030558	Washer- Flat, 5/8	8	-	325983	Gusset, Hydraulic Tower	2
4	030592	Washer- Lock, 1/2	4				
5	031146	Washer- Lock, 5/8	8				
6	041847	Screw- 1/2-13x1-3/4	4				
7	300514	Spacer	A/R				
8	305399	Screw- Hex, 5/8-11x2 GR8	8				
9	308586	Stiff, Weldment	1				
10	313009	Pad	2				





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CHAPTER 3

Group--Broom/Elevator

3

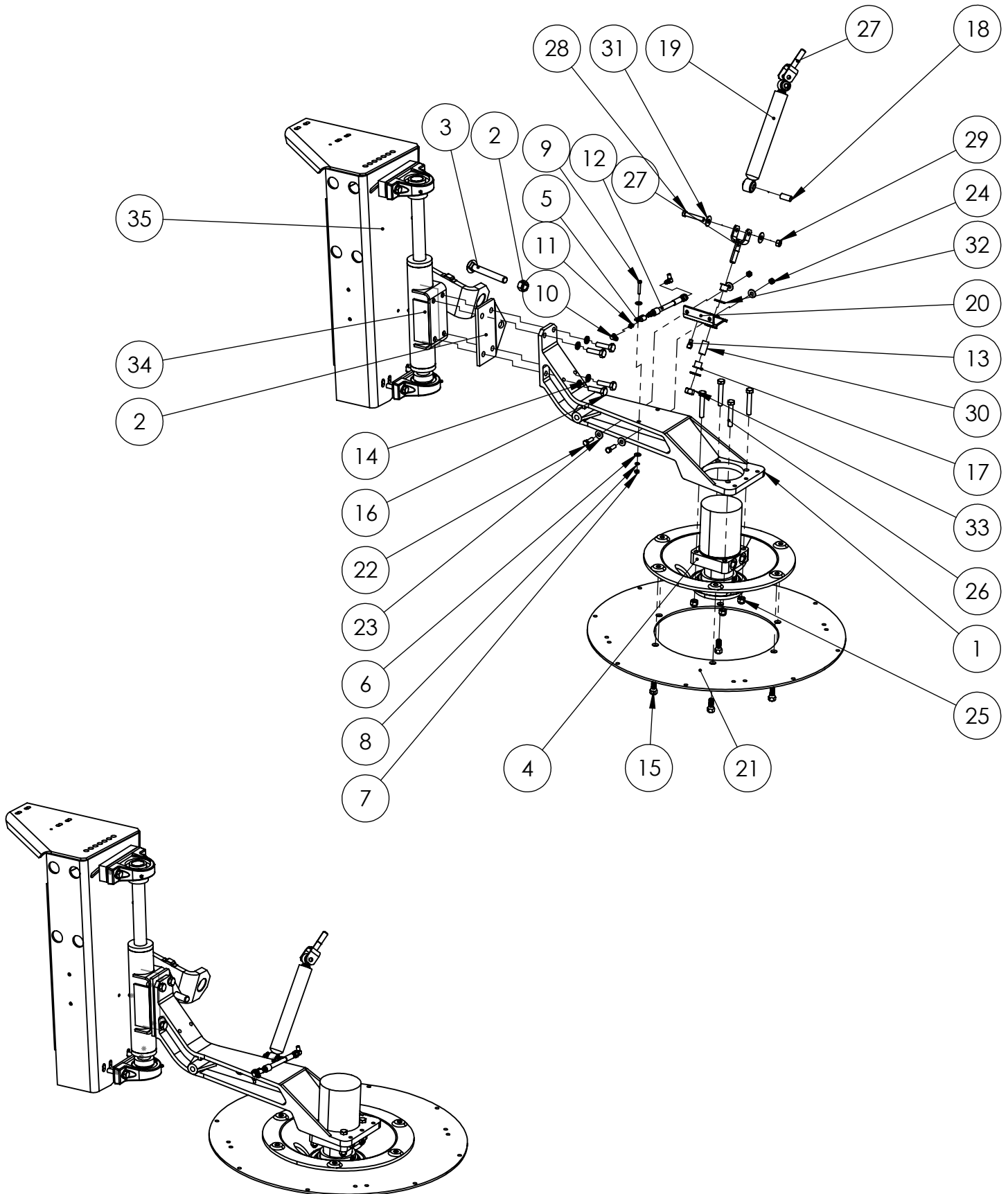
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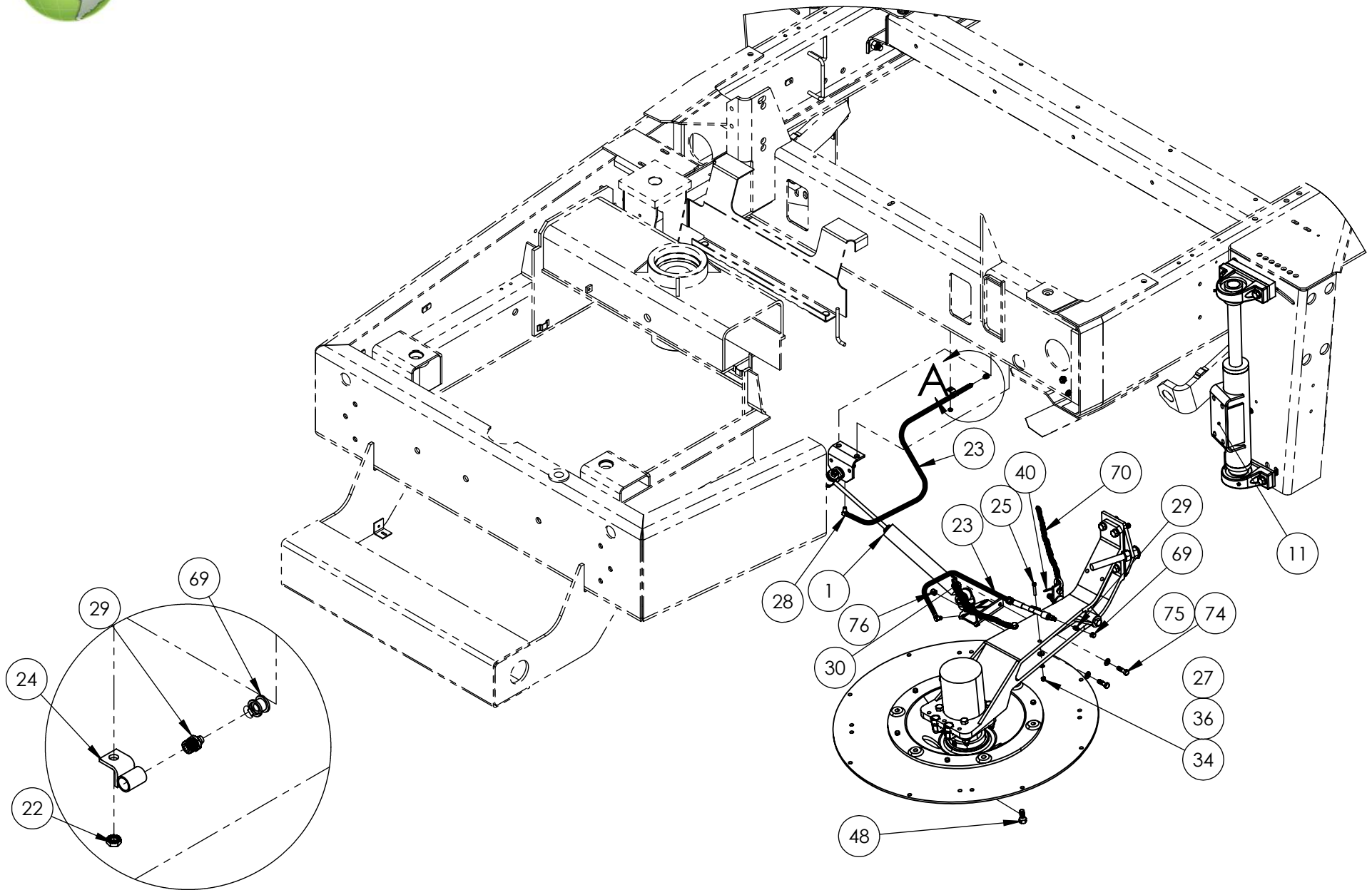
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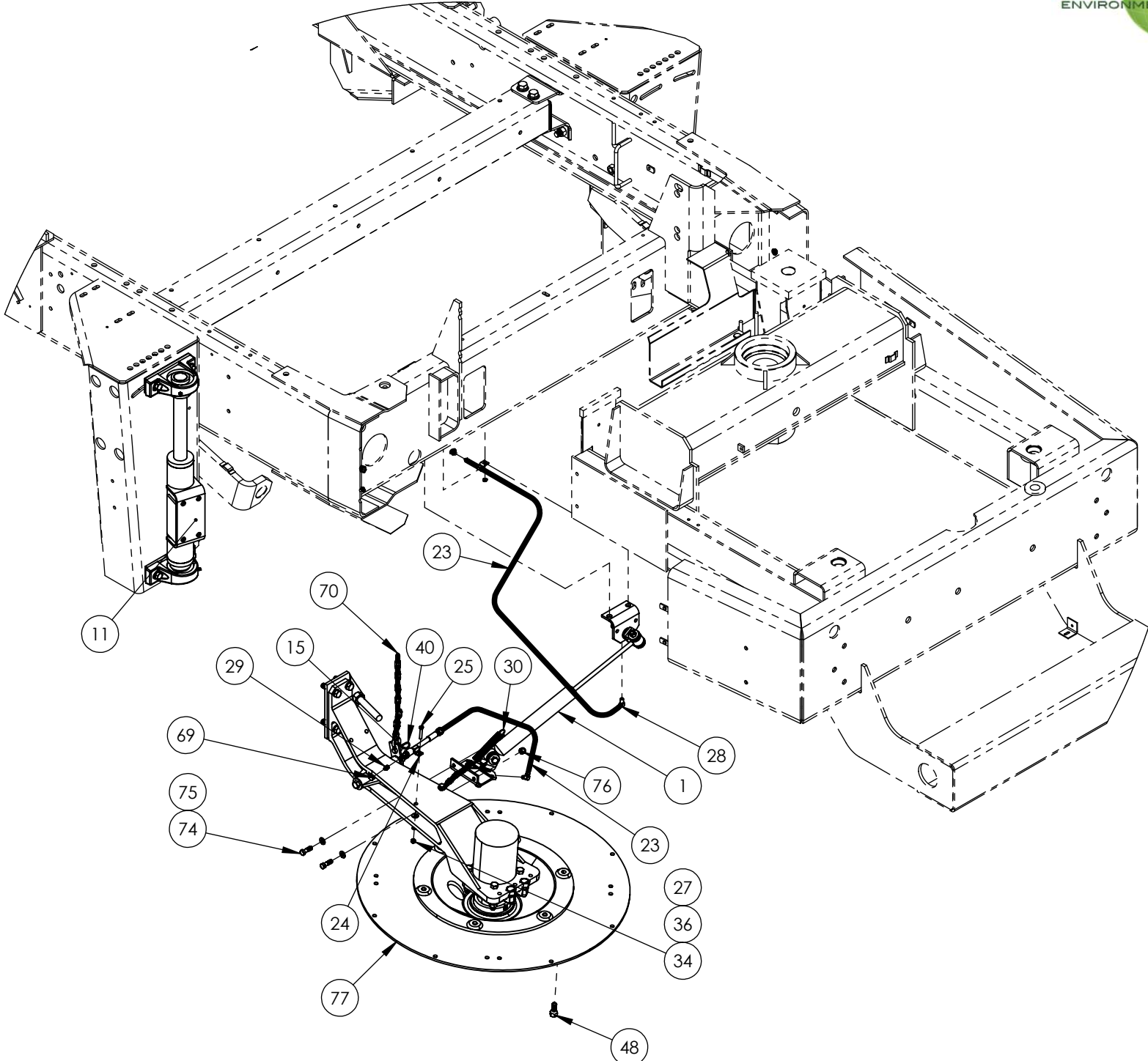
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	307152	GUTTER BROOM ARM - MACHINING	1
2	E317646	STOP WLDMT-GUTTER BROOM	1
3	317649	BOLT,CARR,PLT,3/4-10X6 F/T GR5	1
4	A323513	GB DISH AND MOTOR ASY	1
5	E352900	BRACKET GREASE FITTING	1
6	35605	Washer, Flat, USS Pltd 1/4	3
7	30703	NUT HEX 1/4-20 UNC	2
8	30643	WASHER- LOC SPLIT PLTD 1/4 GR8	2
9	23802	SCR- HX HD CP 1/4-20 X 1 1/2	1
10	311745	CAP, GREASE FITTING DUST CAP	1
11	30287	GREASE ZERK STRAIGHT 1/8" Pipe Thread	1
12	E320331	HOSE, HYD-03, 100R1, FJIC-04 X MNPT-02	1
13	33925	ELBOW, MJ-MP90-4-2	2
14	30592	WASHER- LOC, SPLT PLTD 1/2 GR8	4
15	401150	BOLT, WHEEL, 1/2"-20 X 7/8", 60°	6
16	33135	SCR-HX HD,PLTD,1/2-13X2 GR8	4
17	40357	BEARING,FLANGED THIN-WALL SPLIT,NYLINER	2
18	E305051	TUBE	1
19	E305054	SHOCK ABSORBER	1
20	E322921	BRACKET WELDMENT	1
21	E302191	PLATE-G.B. 4 BOLT ON SEGMENTS	1
22	33139	SCR- HXHD PLT 3/8-16X1-1/4 GR8	2
23	30557	WASHER FL USS 3/8"	4
24	46828	NUT-LOCK,PLATED,3/8-16	2
25	34599	NUT-NYL INSERT, PLATED, 1/2-13	4
26	32237	SCR- HX HD PLTD 1/2-13 X 3	4
27	E305053	WELDMENT CLEVIS	2
28	32622	SCR- HX HD PL 7/16-14X2 1/2GR8	1
29	35270	NUT-NYL INSERT, PLATED,7/16-14	1
30	E302499	SLEEVE, TUBE-BRG.	1
31	31506	WASHER FLAT USS PLTD 7/16" ID GR8	2
32	35561	WASHER FLAT SAE PLTD 5/8 GR8	2
33	303437	NUT-THIN,ELASIC STOP,5/8-18	1
34	319145	SHAFT ASSY-GUTTER BROOM	1
35	E326574	SUPPORT WLDMT-GB M3,RH	1

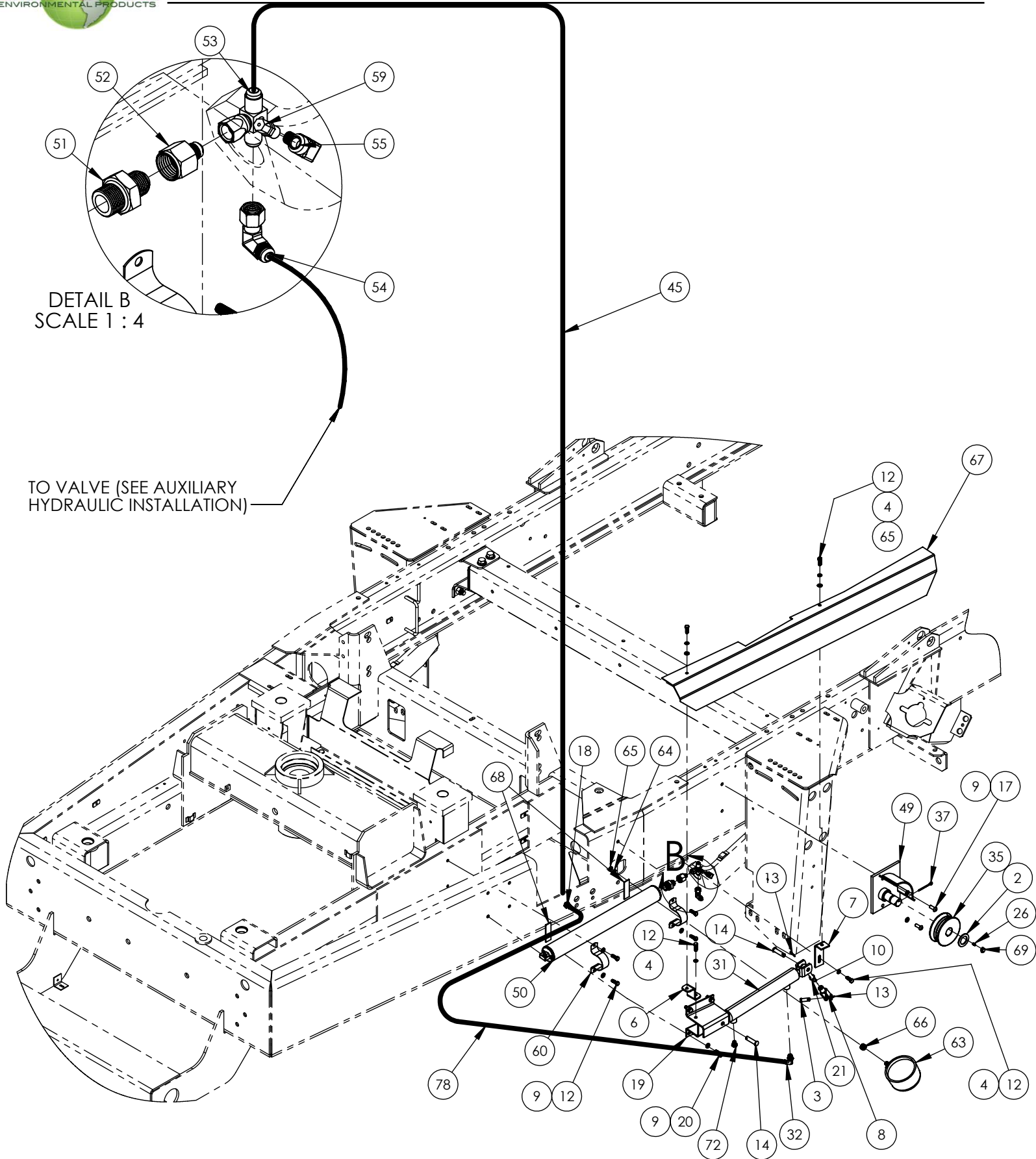


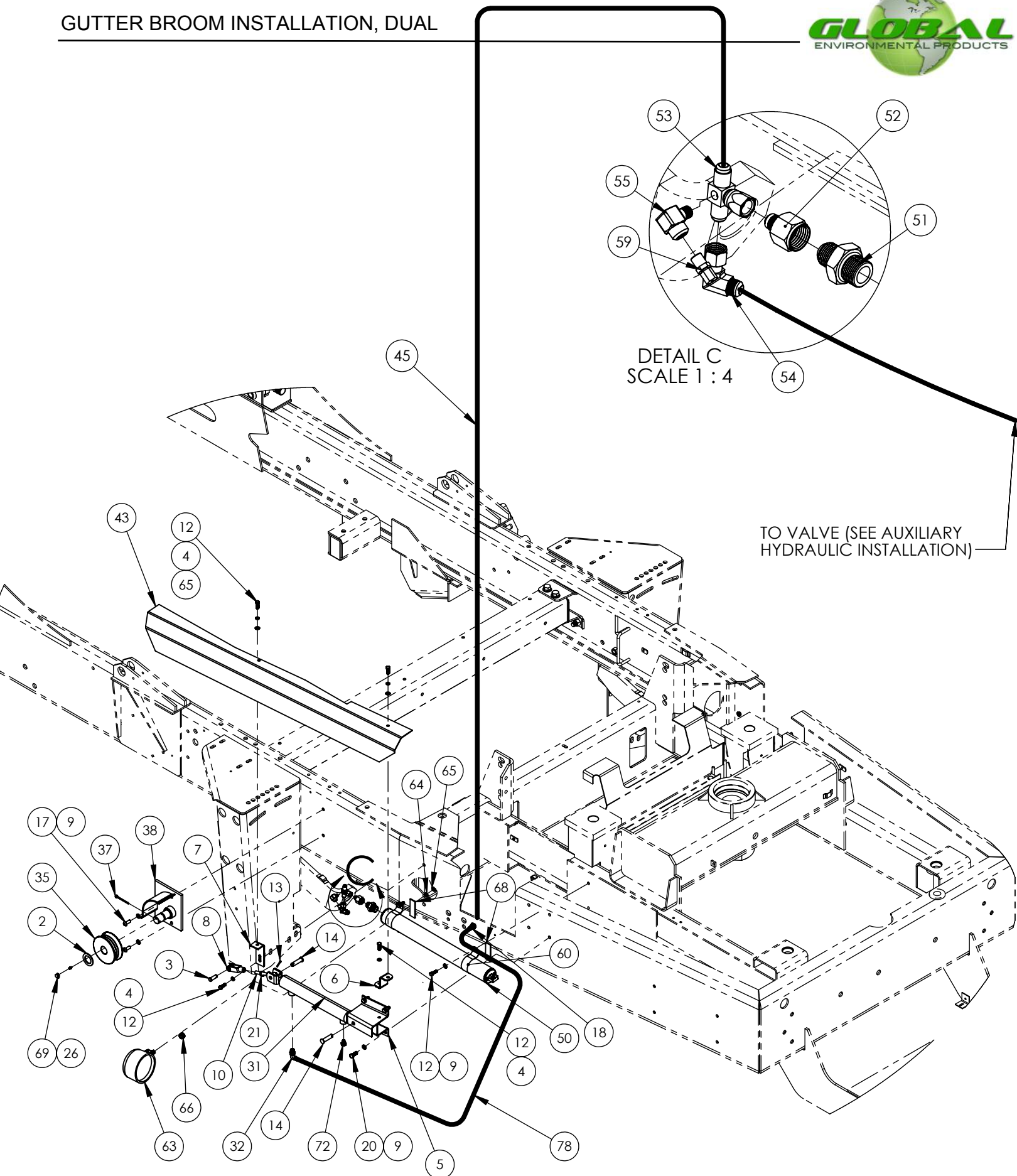
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DETAIL A
SAME ON BOTH SIDES
SCALE 1 : 4









GUTTER BROOM INSTALLATION, DUAL

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
REF	322695	GUTTER BROOM INSTALLATION, DUAL	REV K
1	319220	SHOCK ABSORBER ASSY	2
2	032399	WASHER- 2 OD X 1.28 ID	2
3	030822	CLEVIS PIN, Ø7/16" x 1-1/64" Lg. GRIP	2
4	030373	WASHER, SPRING LOCK, Ø 5/16"	8
5	324751	BRACKET WLDMT, GB CYL MOUNT RH	1
6	324265	BRACKET WLDMT, FRONT-COVER SUPPORT	2
7	324267	BRKT WLDMT, REAR COVER SUPPORT	2
8	036573	CLEVIS YOKES END, 7/16-20-UNF	2
9	030605	WASHER, SPRING LOCK, Ø 3/8"	20
10	E324257	ROD END, 7/16-20-UNF	2
11	319145	G.B. SHAFT ASSY-M3/MX3	2
12	031433	BOLT, HEX, HEAD, 5/16-18-UNC x 1" LG	16
13	031495	PIN COTTER PLATED, 1/8" X 1" LG.	6
14	035248	PIN CLEVIS, 1/2 X 1 3/4	4
15	180437	D-SHACKLE, 5/16 ROUND PIN	2
17	319584	SCR SOC HD ALLEN 3/8-16 X 1	4
18	023484	HYD. FITTING 90° BULKHEAD (MJIC-06/MJIC-06)	2
19	324752	BRACKET WLDMT, GB CYL MOUNT LH	1
20	034423	BOLT, HEX, HEAD, 3/8-16-UNC x 1" LG. GR8	8
21	051784	NUT, HEX, JAM, 7/16-20UNF	2
22	900105	NUT, KEPS #10-24 (ZP)	2
23	E320331	HOSE ASSY, 3/16ID X 15.38LG	2
24	E352900	BRACKET GREASE FITTING	4
25	023802	SCR- HX HD CP 1/4-20 X 1 1/2	2
26	035136	GREASE ZERK STRAIGHT 1/4 -28 N.F. TAPER	2
27	035605	Washer, Flat, USS Pltd 1/4	2
28	033925	ELBOW, MJ-MP90-4-2	4
29	030287	GREASE ZERK STRAIGHT 1/8" Pipe Thread	4
30	302214	SPRING, EXTENSION, HOOKS, 0.75OD, 5 1/2" lg.	2
31	302344	HYDR CYL-1 1/2 X 10 X 17.25	2
32	054289	FITTING, HYD, 90°, MJIC-06 X MORB-06	2
34	030703	NUT HEX 1/4-20 UNC	2
35	324205	PULLEY, G. B. LIFT	2
36	030643	WASHER- LOC SPLIT PLTD 1/4 GR8	2
37	351214	COTTER PIN Ø5/32" X 2" LG	2
38	E324209	BRACKET WELDMENT, G.B. PULLEY R.H.	1
40	10883-2	HAIRPIN COTTER	2
43	331829	COVER, CYLINDER L.H.	1
45	323800	HOSE ASSY	2
48	401150	BOLT, WHEEL, 1/2"-20 X 7/8", 60°	12
49	E324210	BRACKET WELDMENT, G.B. PULLEY L.H.	1
50	350836	ACCUMULATOR	2
51	303165	HYD FITTING STRAIGHT (ORB-12/JIC-10)	2
52	245438	FITTING, HYD, STR, FJIC-10 X MJIC-06	2
53	351700	TEE, MJ-MJ-FJX-6, REWORK	2
54	252013	FITTING, HYD, 90°, MJIC-06 X FJIC-06	2
55	321844	FITTING, HYD, 90°, FNPT-02xMNPT-02(1/8"), STEEL	2

GUTTER BROOM INSTALLATION, DUAL



ITEM NO.	PART NUMBER	DESCRIPTION	QTY
59	040549	CONNECTOR	2
60	322713	CLAMP,PIPE STRAP,2.28 @ 2.40"Ø	4
63	329574	WORK LIGHT, SPOTLIGHT 12V, 605 SERIES	2
64	023805	WASHER, STAR 5/16", EXT. (ZP)	2
65	651420	WASHER,FLAT,Ø 5/16", SAE NARROW, 11/16" O.D.	6
66	324190	GROMMET AN931-C6-9	2
67	331828	COVER, CYLINDER L.H.	1
68	896973001	RUBBER STRIP 1/8x3X1	4
69	311745	CAPLUG - GREASE FITTING	6
70	896636030	CHAIN, 1/4 HI CARBON 30 LINKS	2 REF
71	896636032	CHAIN, 1/4 HI CARBON 32 LINKS	2 REF
72	331084	BRASS BREATHER VENT	2
73	890627	GREASE MOLUB #2	1
74	033139	BOLT,HEX,HEAD,3/8-16-UNC x 1 1/4"LG	4
75	038266	WASHER,FLAT,Ø 3/8",SAE NARROW	4
76	023885	NUT,HEX,NYLON LOCK,3/8-16-UNC	4
77	323742	GUTTER BROOM ARM ASSY- M3	2 REF
78	331275	HOSE ASSY, 3/8" ID X 19.625	2

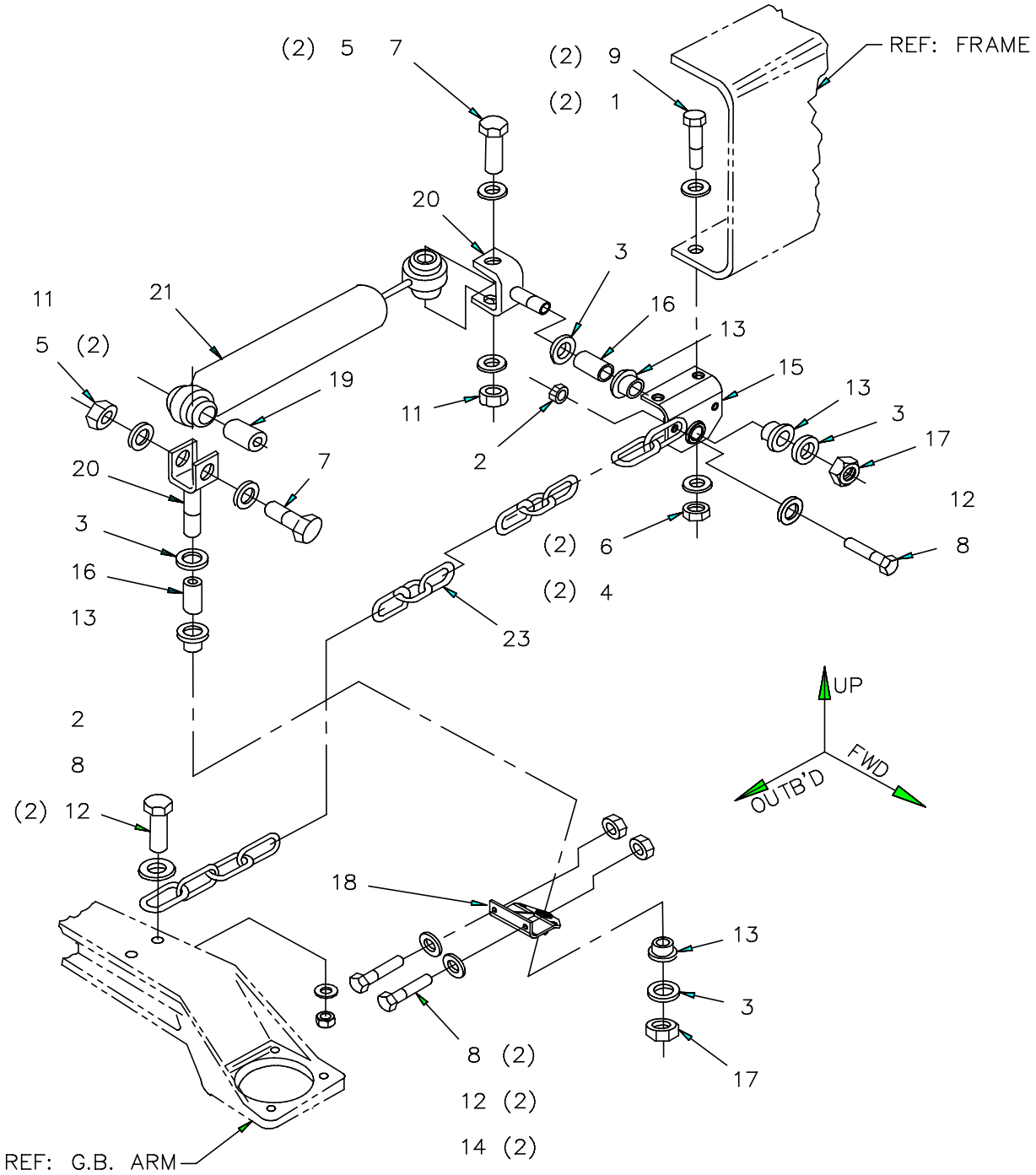


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Shock Absorber Assembly





Shock Absorber Assembly

CHAPTER 3

Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	319220	Shock Absorber Assembly	H Ref	23	896663022	Chain-1/4, (21.60 Eff Lg)	A 1
1	023687	Washer Flat Sae Plated 1/2	2				
2	023885	Nut- Loc Nyl Insert Plt 3/8-16	B 2				
3	18007-7	Washer Flat Astm 436 5/8	4				
4	030592	Washer- Loc, Splt Pltd 1/2 Gr8	2				
5	031506	Washer Flat Uss Plated 7/16	4				
6	032523	Nut- Jam Plated 1/2-13	2				
7	032622	Scr- Hx Hd Pl 7/16-14x2 1/2gr8	2				
8	033139	Scr- Hxhd Plt 3/8-16x1-1/4 Gr8	4				
9	033150	Scr- Hx Hd Pltd 1/2-13 X 1-1/4	2				
11	035270	Nut-nyl Insert, Plated,7/16-14	2				
12	038266	Washer Flat Sae Plated 3/8	5				
13	040357	Bearing	4				
14	046828	Nut-lock,Plated,3/8-16	2				
15	322847	Bracket Weldment	B 1				
16	302499	Sleeve	D 2				
17	303437	Nut-thin,Elastic Stop,5/8-18	2				
18	322921	Bracket Weldment	A 1				
19	305051	Tube	A 1				
20	305053	Wldmt Clevis	B 2				
21	305054	Shock Absorber	1				

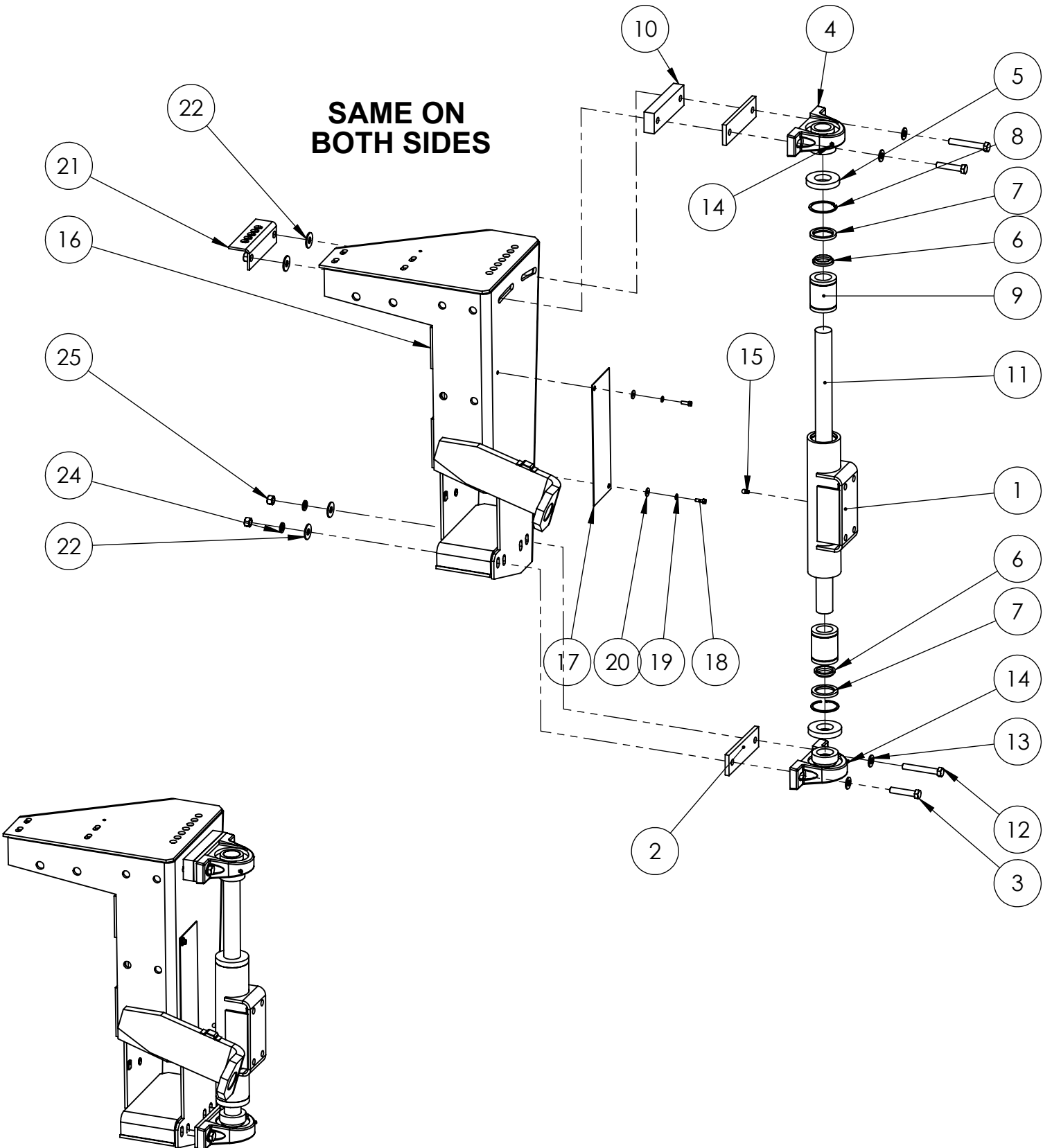




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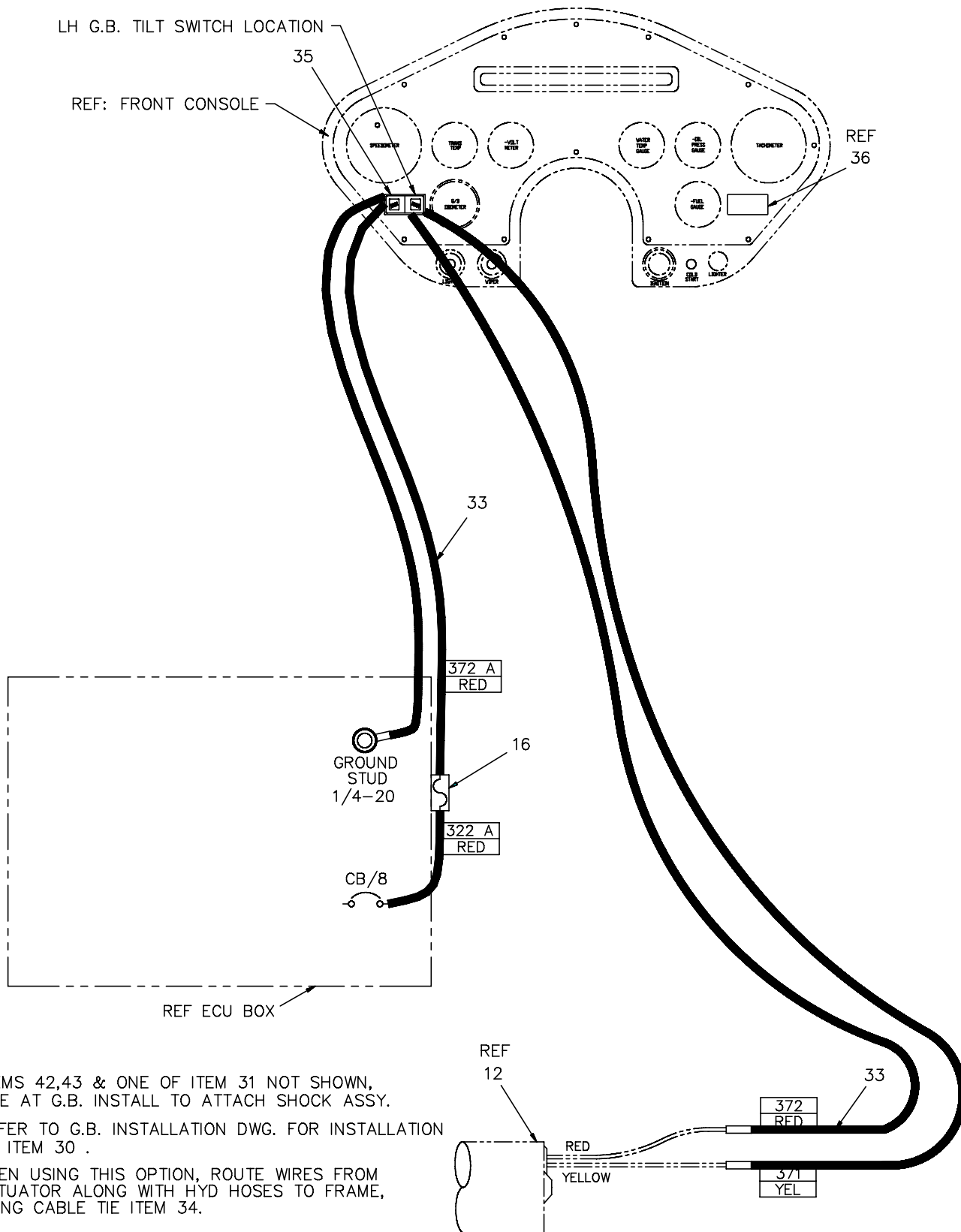
ITEM NO.	PART NUMBER	DESCRIPTION	ASSY/QTY.
1	309038	PIVOT MOUNT-WLDMT GUTTER BROOM ARM	2
2	E303592	SPACER-G.B. ARM	4
3	305400	SCR-HX HD,PLT,1/2-13X2-1/2 GR8	4
4	305207	BEARING,PILLOW BLOCK, 1 1/2"	4
5	300003	BUMPER	4
6	300234	WIPER RING	4
7	300235	WIPER - HOUSING	4
8	300284	RING - RETAINING - INTERNAL	4
9	300285	BUSHING - BALL	4
10	E308007	SPACER (G. B. UPPER BEARING MTG.)	2
11	E327670	SHAFT,STAINLESS	2
12	33232	SCR-HX HD CAP,1/2-13X3-1/2 PL	4
13	23687	WASHER FLAT SAE PLATED 1/2" ID	8
14	35136	GREASE ZERK STRAIGHT 1/4 -28 N.F. TAPER	4
15	35137	GREASE ZERK 90° ELBOW Ø 1/4" -28 UNF	2
16	E326575	SUPPORT WLDMT-GB M3-LH	2
17	317644	RUB PLATE, G.B. STOP	2
18	33145	SCR- HX HD PLTD 1/4-20X3/4 GR8	4
19	30643	WASHER- LOC SPLIT PLTD 1/4 GR8	4
20	35605	Washer, Flat, USS Pltd 1/4	4
21	E301523	WLDMT. - ANGLE	2
22	30595	WASHER FLAT USS PLATED 1/2" ID	8
24	30592	WASHER- LOC, SPLT PLTD 1/2 GR8	4
25	30596	NUT- PLATED, 1/2-13UNC	4





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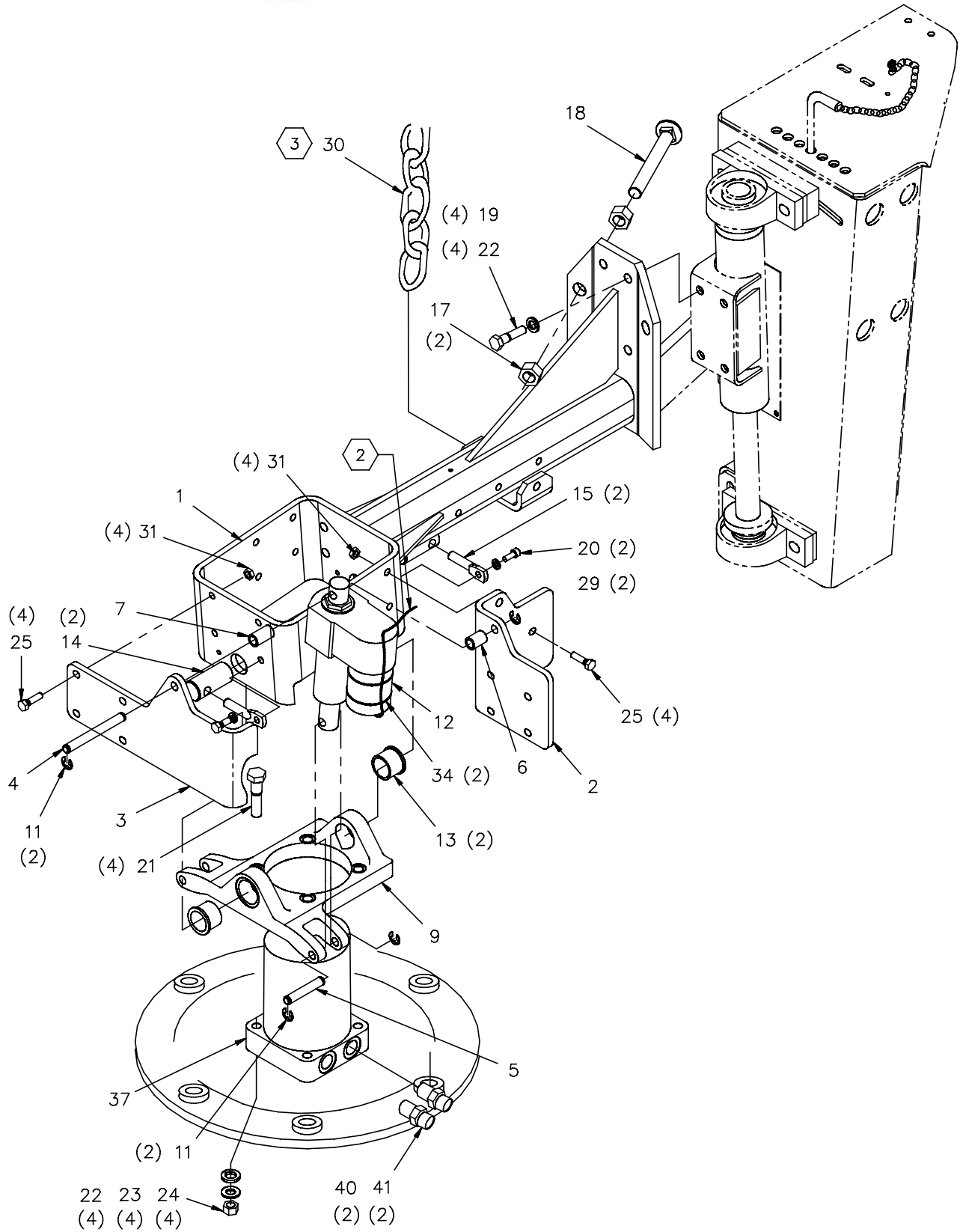
- 4 ITEMS 42,43 & ONE OF ITEM 31 NOT SHOWN, USE AT G.B. INSTALL TO ATTACH SHOCK ASSY.
- 3 REFER TO G.B. INSTALLATION DWG. FOR INSTALLATION OF ITEM 30 .
- 2 WHEN USING THIS OPTION, ROUTE WIRES FROM ACTUATOR ALONG WITH HYD HOSES TO FRAME, USING CABLE TIE ITEM 34.

NOTES, UNLESS OTHERWISE SPECIFIED;

Gutter Broom Tilt Assembly LH



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Gutter Broom Tilt Assembly LH

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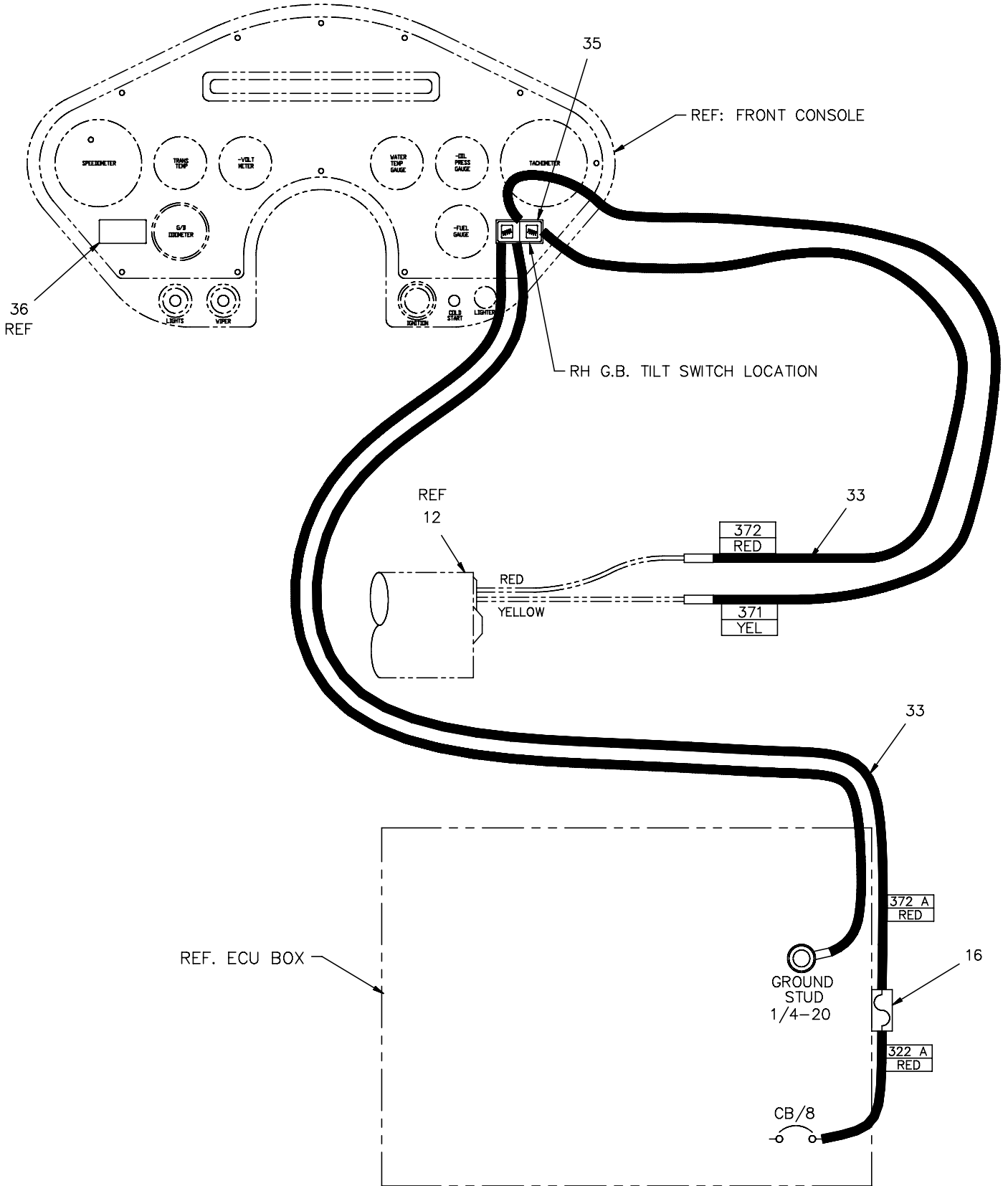
Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	323743	Gutter Broom Tilt LH	K Ref	23	030595	Washer Flat Uss Plated 1/2	4
1	324690	Arm Wldmt, Gutter Broom	1	24	030596	Nut- Plated, 1/2-13	4
2	319027	Actuator Support-rear,Gb	1	25	033139	Scr- Hxhd Plt 3/8-16x1-1/4 Gr8	8
3	320520	Actuator Support Front Left Gb	1	29	030373	Washer- Loc Split Plt 5/16 Gr8	2
4	319029	Actuator Shaft-top,Gb	1	30	896636032	Chain, 1/4 Hi Carbon 32 Links	1
5	319030	Actuator Shaft-bottom,Gb	1	31	046828	Nut-lock,Plated,3/8-16	9
6	319031	Actuator Ret Spcr,Short,Gb	1	32	895109	Loctite 242 (Blue) 1.00000	0
7	319032	Actuator Ret Spcr,Long,Gb	1	33	322903	Harness- Lh G.b. Tilt	1
9	323935	Mount, Tilt Gutter Broom	1	34	309105	Cable Tie,14.75 Lg, Heavy Duty	2
11	319038	Retaining Ring-.50 Dia Shaft	4	35	319082	Switch Rocker Gutter Broom Tlt	1
12	319044	Linear Actuator	1				
13	210152	Bushing	2	36	316569	Hole Plug	0
14	318817	Pivot Shaft-gutter Broom	2	37	323513	Gb Dish And Motor Assy	1
15	318848	Pin-shaft Retainer,G/B	2	38	030264	Shackle,1/4, W/ 5/16 Screw Pin	2
16	319083	Fuse, 15 Amp	2	40	204272	Conn, Mb-mj-10	2
17	030426	Nut- Plated, 3/4-10	2	41	207576	Elbow Mj-fj45-10	2
18	317649	Bolt,Carr,Plt,3/4-10x6 F/T Gr8	1	42	050353	Scr-hx Hd,3/8-16x3-3/4 Gr8	3
19	033135	Scr-hx Hd,Pltd,1/2-13x2 Gr8	4	43	038266	Washer Flat Sae Plated 3/8	1
20	030483	Scr- Hxhd Pltd 5/16-18x3/4 Gr8	2				
21	18004-45	Scr-hx Hd,1/2-13x3-1/4	4				
22	030592	Washer- Loc, Splt Pltd 1/2 Gr8	8				



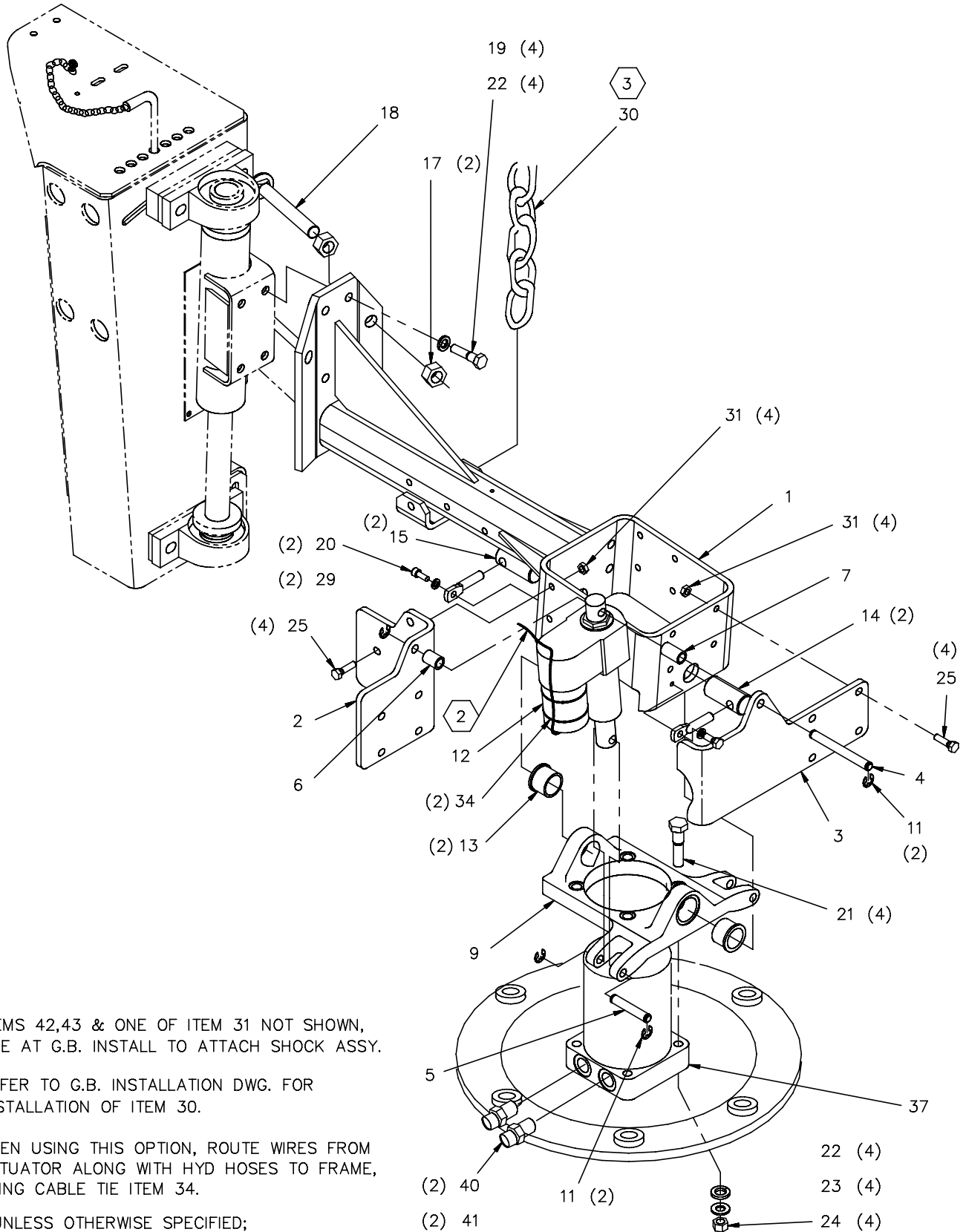


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Gutter Broom Tilt Assembly RH



4 ITEMS 42,43 & ONE OF ITEM 31 NOT SHOWN, USE AT G.B. INSTALL TO ATTACH SHOCK ASSY.

3 REFER TO G.B. INSTALLATION DWG. FOR INSTALLATION OF ITEM 30.

2 WHEN USING THIS OPTION, ROUTE WIRES FROM ACTUATOR ALONG WITH HYD HOSES TO FRAME, USING CABLE TIE ITEM 34.

NOTES, UNLESS OTHERWISE SPECIFIED;



Gutter Broom Tilt Assembly RH

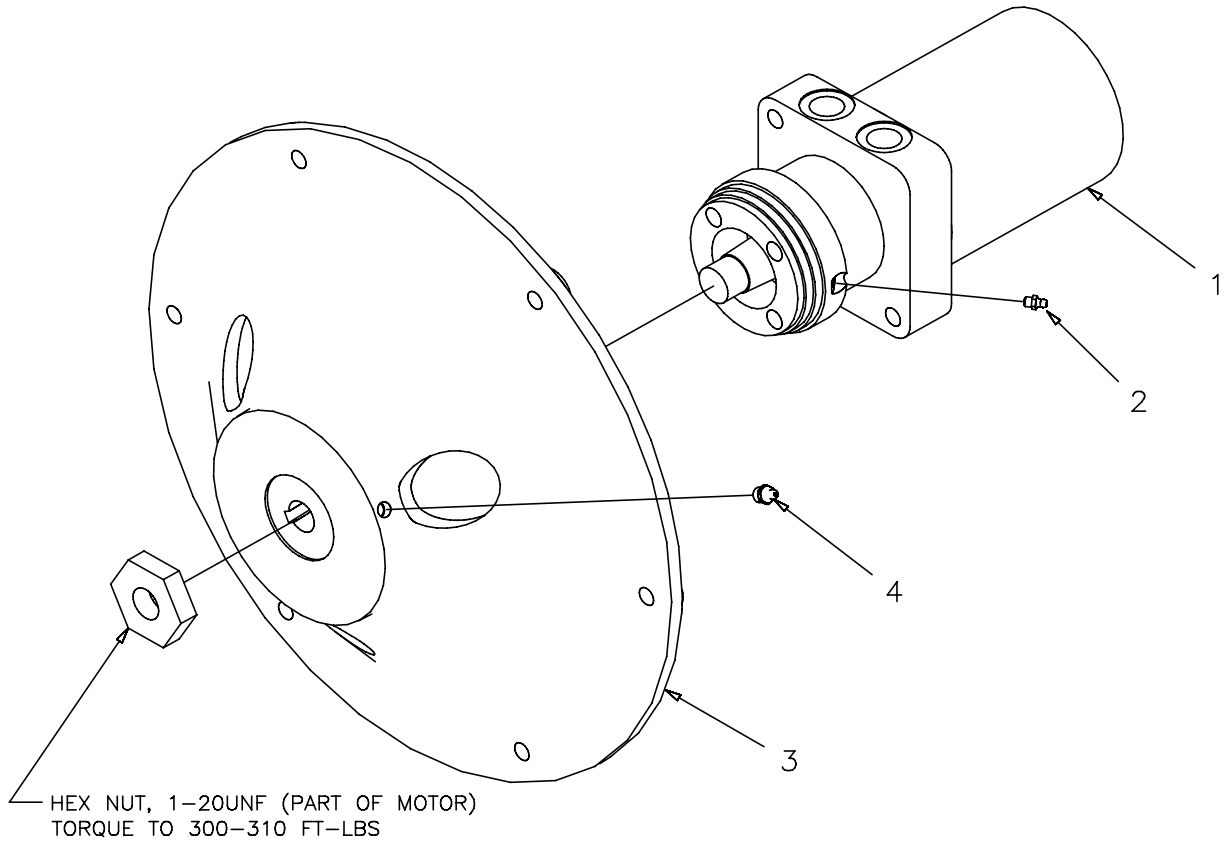
CHAPTER 3

Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	323744	Gutter Broom Tilt RH	K Ref	23	030595	Washer Flat Uss Plated 1/2	4
1	324690	Arm Wldmt, Gutter Broom	1	24	030596	Nut- Plated, 1/2-13	4
2	319027	Actuator Support-rear,Gb	1	25	033139	Scr- Hxhd Plt 3/8-16x1-1/4 Gr8	8
3	319028	Actuator Support-front,Gb	1	29	030373	Washer- Loc Split Plt 5/16 Gr8	2
4	319029	Actuator Shaft-top,Gb	1	30	896636032	Chain, 1/4 Hi Carbon 32 Links	1
5	319030	Actuator Shaft-bottom,Gb	1	31	046828	Nut-lock,Plated,3/8-16	9
6	319031	Actuator Ret Spcr,Short,Gb	1	32	895109	Loctite 242 (Blue) 1.00000	0
7	319032	Actuator Ret Spcr,Long,Gb	1	33	322904	Harness- R.h. G.b. Tilt	1
9	323935	Mount, Tilt Gutter Broom	1	34	309105	Cable Tie,14.75 Lg, Heavy Duty	2
11	319038	Retaining Ring-.50 Dia Shaft	4	35	319082	Switch Rocker Gutter Broom Tlt	1
12	319044	Linear Actuator	1				
				36	316569	Hole Plug	0
13	210152	Bushing	2	37	323513	Gb Dish And Motor Assy	1
14	318817	Pivot Shaft-gutter Broom	2	38	030264	Shackle,1/4, W/ 5/16 Screw Pin	2
15	318848	Pin-shaft Retainer,G/B	2	40	204272	Conn, Mb-mj-10	2
16	319083	Fuse, 15 Amp	1	41	207576	Elbow Mj-fj45-10	2
17	030426	Nut- Plated, 3/4-10	2	42	050353	Scr-hx Hd,3/8-16x3-3/4 Gr8	3
18	317649	Bolt,Carr,Plt,3/4-10x6 F/T Gr8	1	43	038266	Washer Flat Sae Plated 3/8	1
19	033135	Scr-hx Hd,Pltd,1/2-13x2 Gr8	4				
20	030483	Scr- Hxhd Pltd 5/16-18x3/4 Gr8	2				
21	18004-45	Scr-hx Hd,1/2-13x3-1/4	4				
22	030592	Washer- Loc, Splt Pltd 1/2 Gr8	8				





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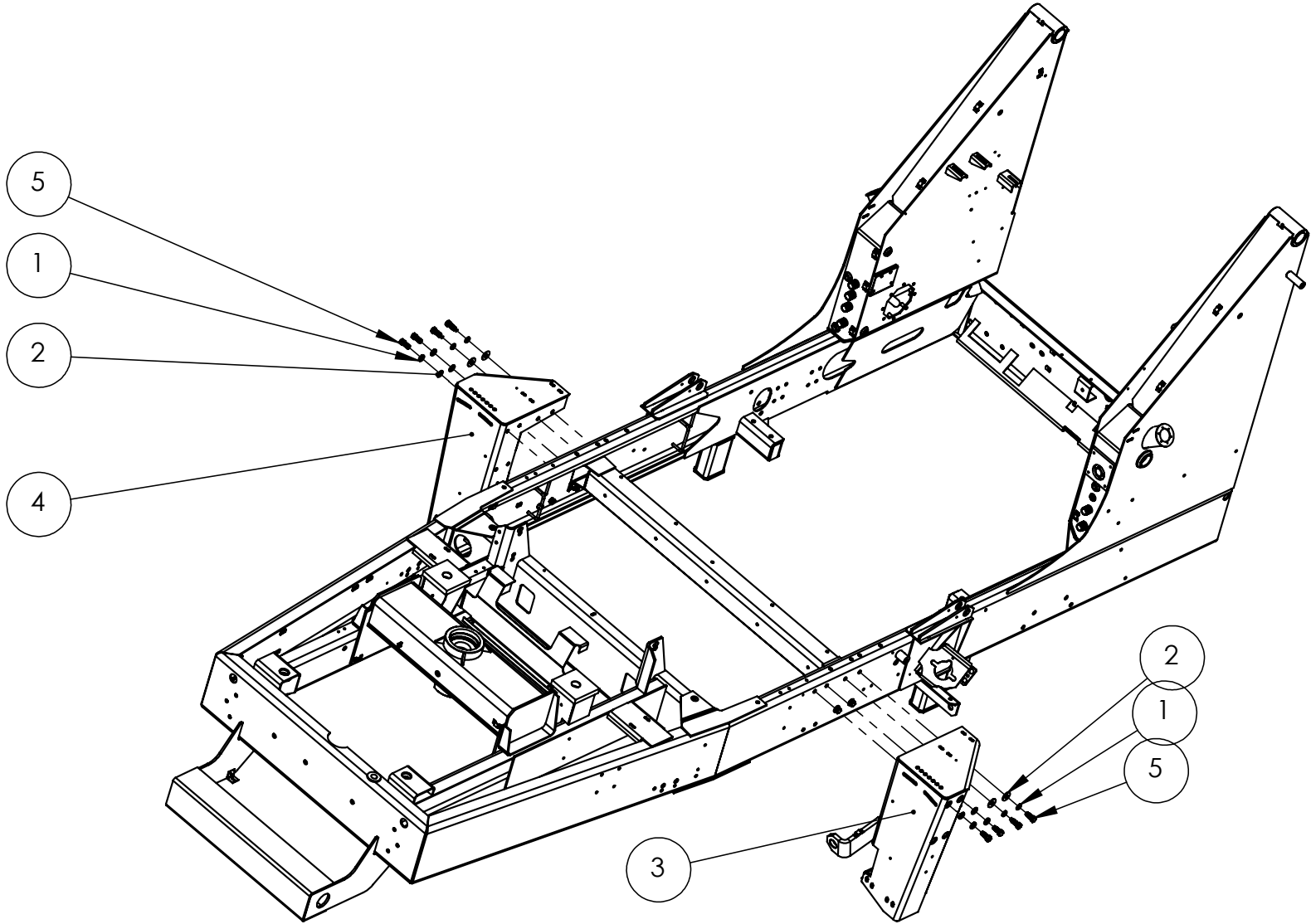


Item	Pt No.	Description	Qty
-	323513	Gutter Broom Motor Assembly	E Ref
1	323533	Motor Assy, G.B.	1
2	033136	Zerk Fitting- 1/4-28	1
3	323721	G.B. Dish Machined	1
4	030287	Zerk, Tapered 1/8 Npt (#1610)	1





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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	31146	WASHER- LOC SPLIT PLTD 5/8	8
2	30558	WASHER FLAT USS PLTD 5/8 GR8	8
3	E326575	SUPPORT WLDMT-GB M3-LH	1
4	E326574	SUPPORT WLDMT-GB M3,RH	1
5	31457	SCR- HX HD, PLTD, 5/8-11X1-1/2	8

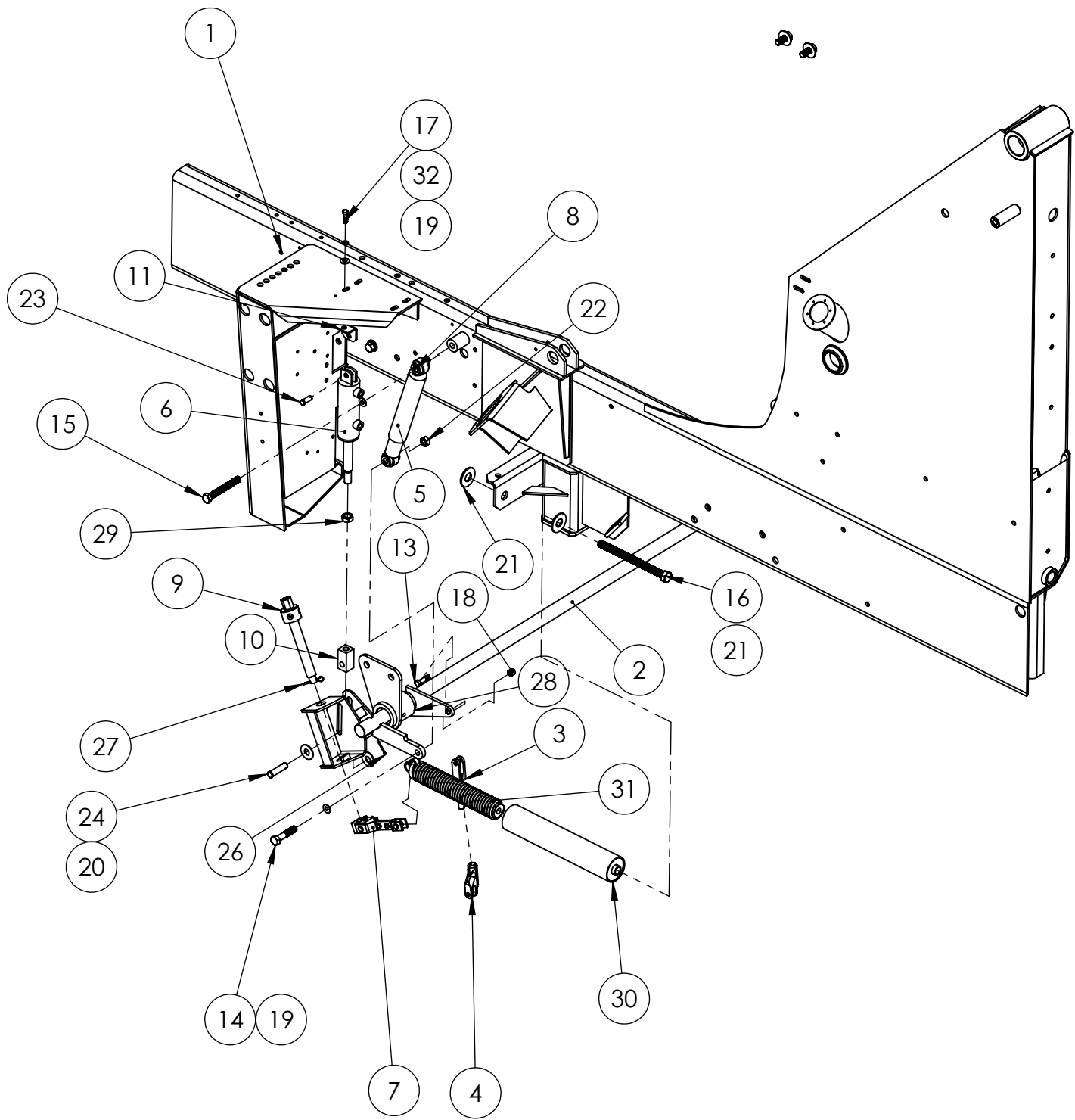




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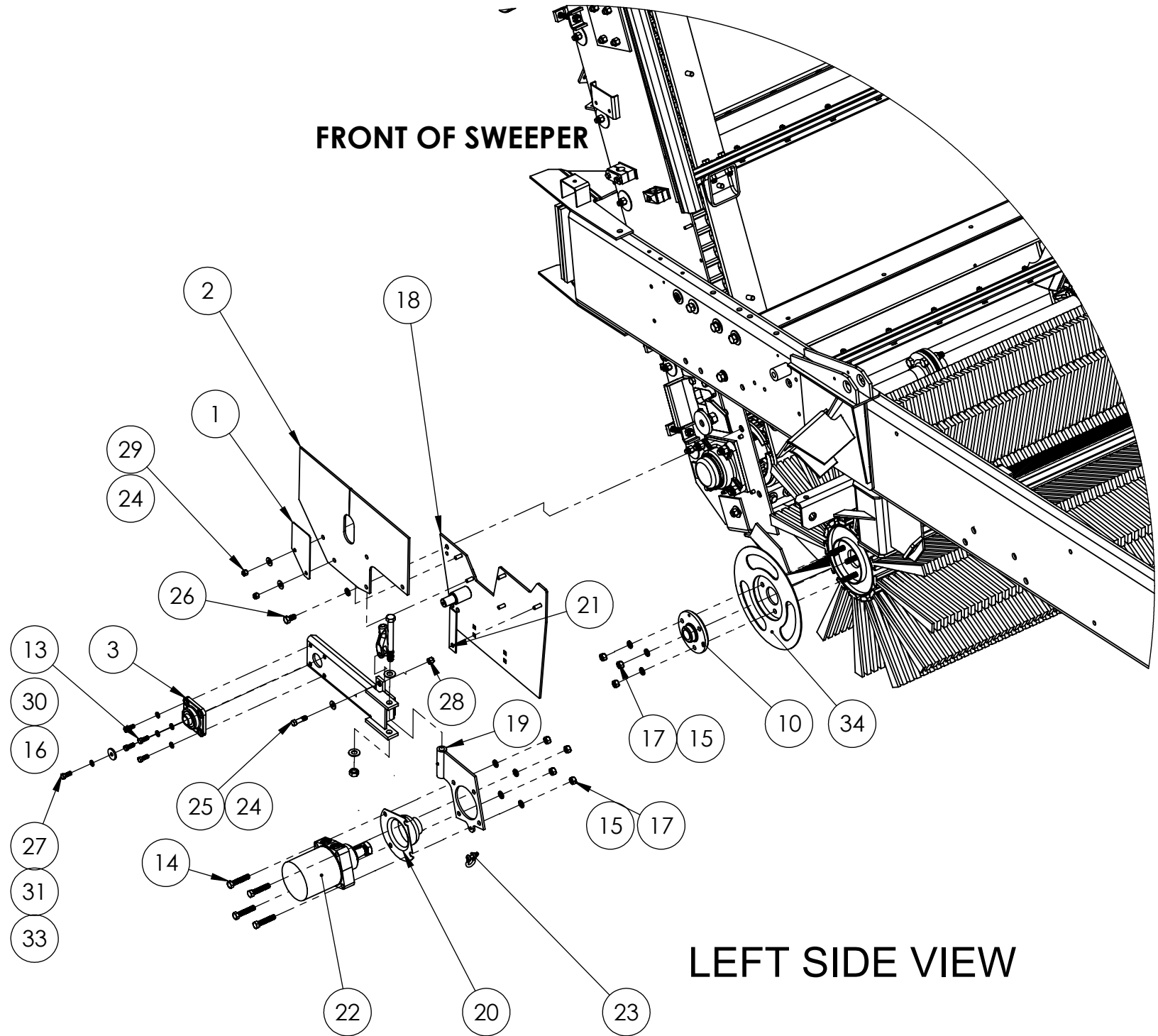


ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	326576	G.B. SUPPORT INSTALLATION-M3/MX3	1
2	309350	SHAFT WELDMENT - PUB LIFT	1
3	305086	LIFT LINK WLD-MACH	2
4	E305046	CLEVIS, MACHINED	2
5	308460	SHOCK ABSORBER	1
6	308593	CYL. PUB LIFT	1
7	A303321	CONNECTING LINK, ASS'Y	1
8	E302499	SLEEVE, TUBE-BRG.	2
9	309016	THREADED ROD WELDMENT	1
10	E314362	KNUCLE	1
11	354975	BRACKET, PUB CYLINDER - WLDMT	1
12	550691	ROUND, SHIM	1
13	309262	BOLT, HEX, HEAD, 7/16-14-UNC x 1 3/4" LG	2
14	039445	BOLT, HEX, HEAD, 5/8-18-UNF x 3" LG	1
15	327655	BOLT, HEX, HEAD, 5/8-11-UNC x 3/4" LG	1
16	070526	BOLT, HEX, HEAD, 3/4-10-UNC x 9-1/2" LG. (FT)	1
17	033139	BOLT, HEX, HEAD, 3/8-16-UNC x 1 1/4" LG	1
18	035270	NUT, HEX, NYLON LOCK, 7/16-14-UNC	2
19	030557	WASHER, FLAT, USS, Ø 3/8"	5
20	030558	WASHER, FLAT, Ø 5/8", USS Gr.8	2
21	035605	WASHER, FLAT, Ø 1/4"	2
22	030470	NUT, HEX, 5/8-18-UNC, CONELOCK, PLATED	1
23	024155	CLEVIS PIN, Ø1/2" x 1-3/32" Lg. GRIP	2
24	300303	CLEVIS PIN, Ø5/8" x 2-17/64" Lg. GRIP (Plain Steel)	1
25	031495	COTTER PIN Ø1/8" X 1" LG	2
26	030660	COTTER PIN Ø1/8" X 1" LG	1
27	651406	COTTER PIN Ø3/16" X 1-1/2" LG	1
28	351166	SHAFT COLLAR1	2
29	032018	NUT, HEX, JAM, 3/4-10-UNC	1
30	E303261	WELDMENT SPRING COVER	1
31	E212786	SPRING ASS'Y, FLOAT, GBS	1
32	030605	WASHER, SPRING LOCK, Ø 3/8"	1

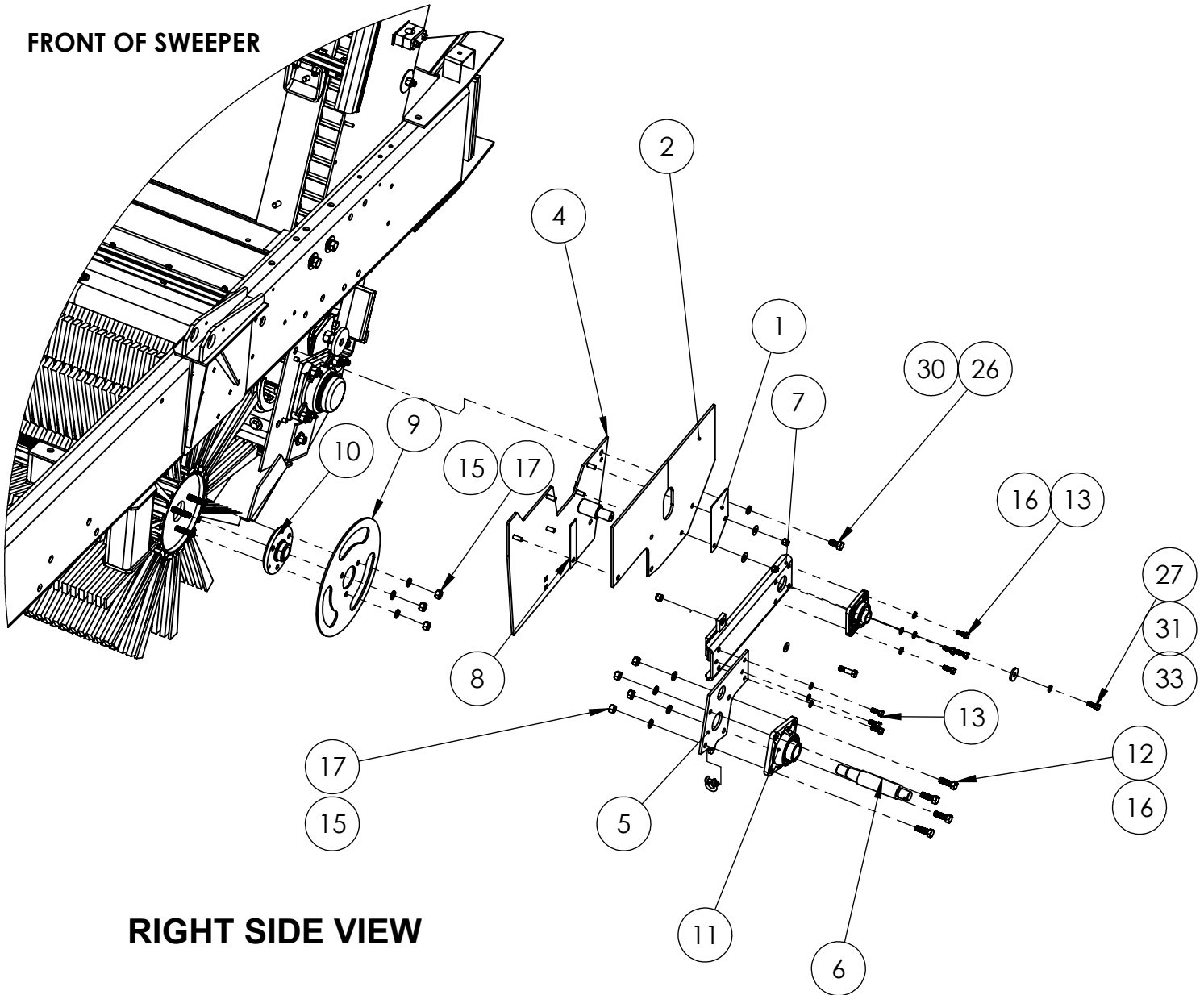


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FRONT OF SWEEPER



FRONT OF SWEEPER



RIGHT SIDE VIEW

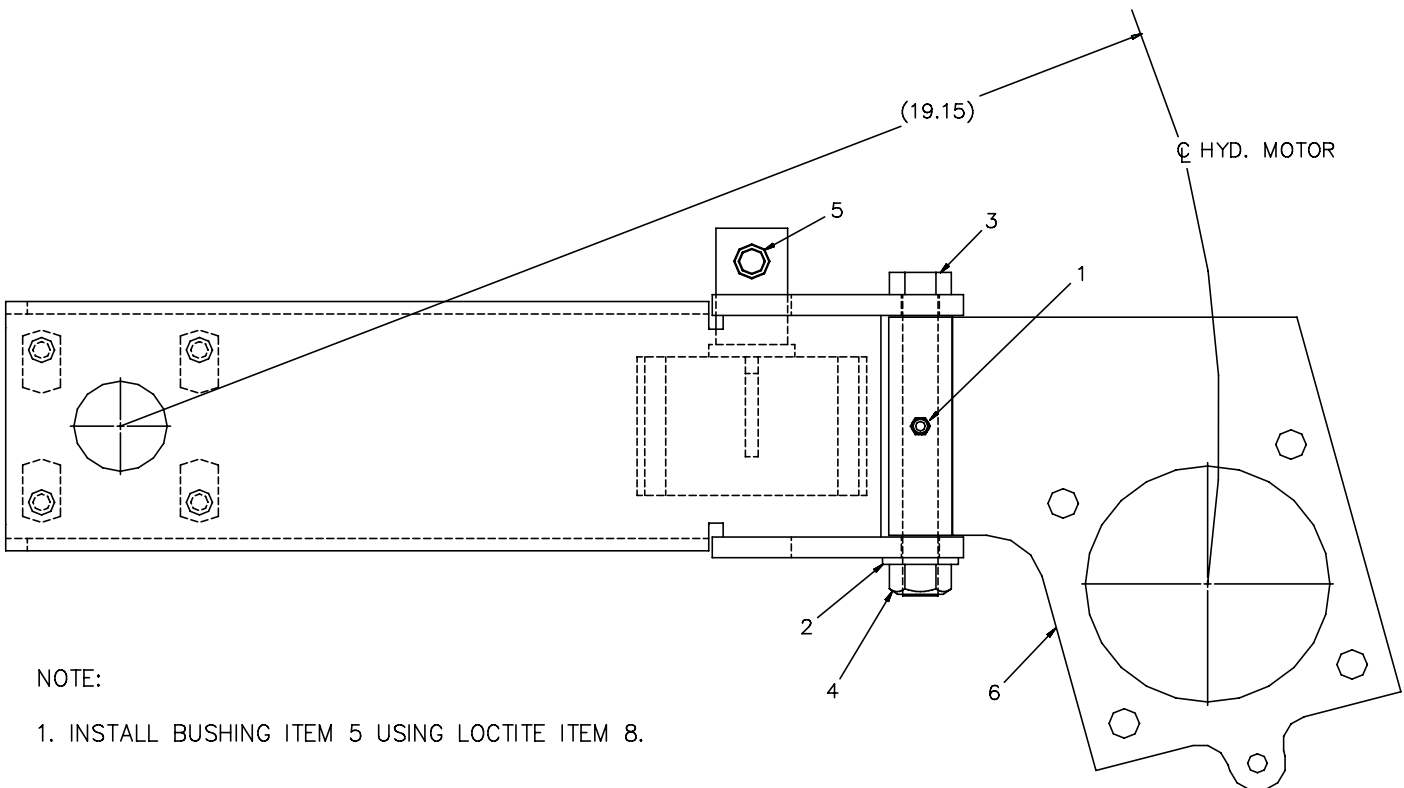
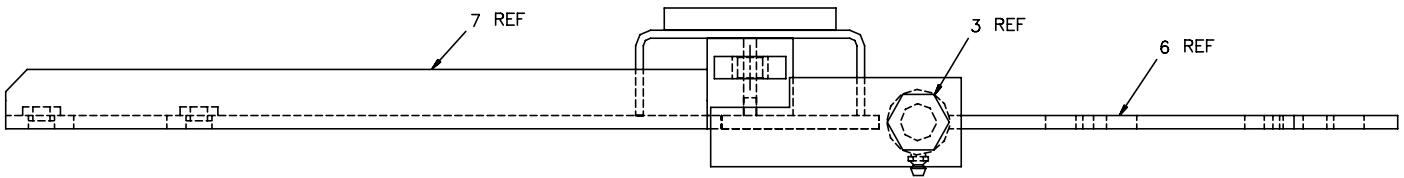
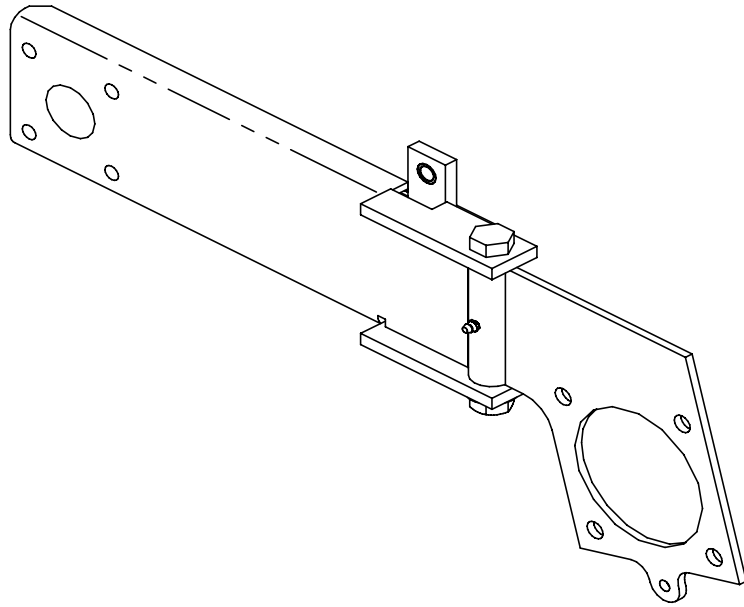
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	326480	DEFLECTOR, SPLASH GUARD	2
2	E327325	GUARD, SPLASH	2
3	352391	Bearing, Flange, 1" Bore	2
4	E327323	PUB SIDE PLATE WELDMENT - RH	1
5	E350867	PLATE BEARING MTG (RH)	1
6	350052	SHAFT-P.U.B. DRIVE CORE	1
7	352406	PUB ARM AND BUSHING ASSEMBLY	1
8	354892	STRAP SUPPORT	1
9	E303504	END PLATE	1
10	350902	HUB - MACHINING	2
11	032032	Bearing Unit, Square Flange, 1 1/2"Ø	1
12	033151	SCR- HX HD 1/2-13 X 1-1/2 GR8	4
13	034423	SCR-HX HD, 3/8-16X1 GR8	11
14	305400	SCR-HX HD, PLT, 1/2-13X2-1/2 GR8	4
15	030592	WASHER- LOC, SPLT PLTD 1/2 GR8	15
16	030605	WASHER- LOC, SPLIT, PLTD, 3/8 GR8	11
17	030596	NUT- PLATED, 1/2-13	14
18	E327322	PUB SIDE PLATE WELDMENT - LH	1
19	A352410	PUB ARM ASSY L.H.	1
20	E327076	PUB GUARD WELDMENT	1
21	354892	STRAP, SUPPORT	1
22	309291	MOTOR, HYD., WHEEL MOUNT, GB	1
23	030264	SHACKLE, 1/4", W/ 5/16 SCREW PIN	2
24	030557	WASHER, FLAT, USS, Ø 3/8"	6
25	309262	BOLT, HEX, HEAD, 7/16-14-UNC x 1 3/4" LG	2
26	030636	BOLT, HEX, HEAD, 1/2-13-UNC x 1" LG	2
27	034423	BOLT, HEX, HEAD, 3/8-16-UNC x 1" LG. GR8	2
28	035270	NUT, HEX, NYLON LOCK, 7/16-14-UNC	2
29	046828	NUT, HEX, NYLON LOCK, 3/8-16-UNC	4
30	030592	WASHER, SPRING LOCK, Ø 1/2"	2
31	030605	WASHER, SPRING LOCK, Ø 3/8"	2
32	E307117	RECTANGLE - DUST COVER P.U.B.	1
33	901300	WASHER	2
34	312745	FIBER GUARD, WELDMENT	1



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NOTE:

1. INSTALL BUSHING ITEM 5 USING LOCTITE ITEM 8.



Pickup Broom Arm LH

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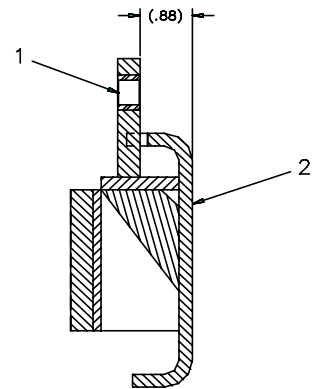
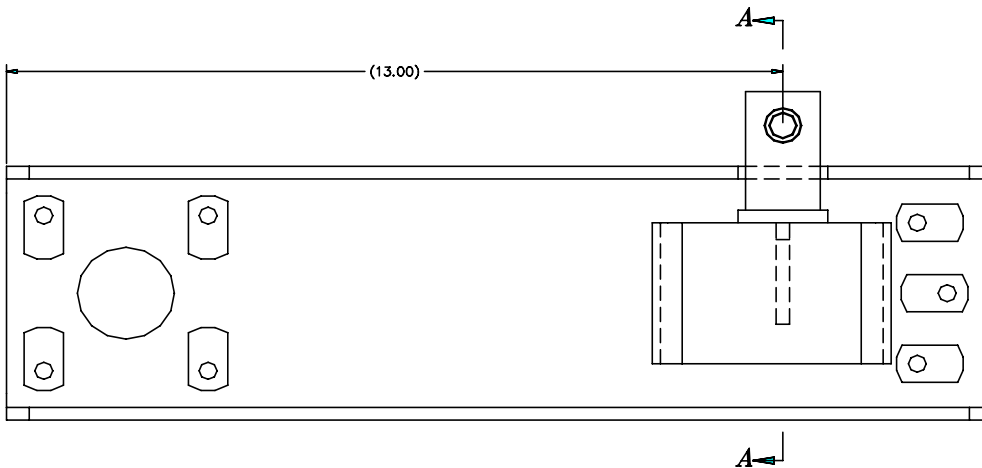
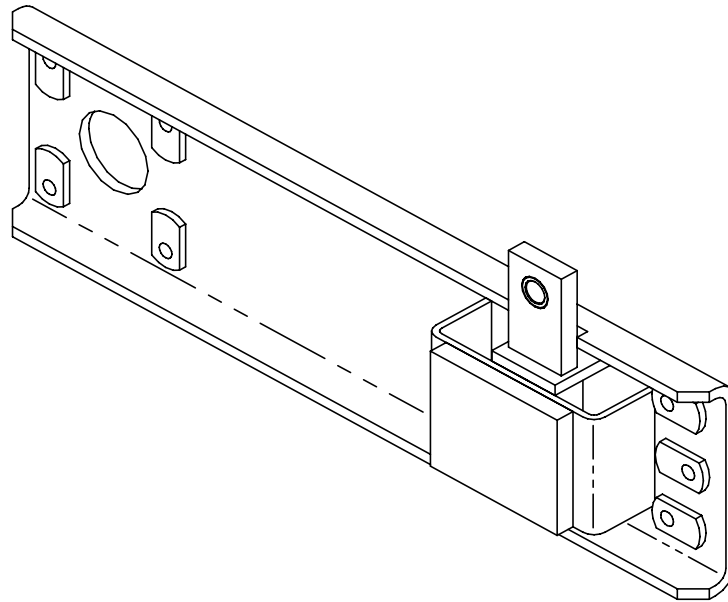
Item	Pt No.	Description	Qty
-	352410	Pickup Broom Arm LH	- Ref
1	035136	Zerk Fitting 1/4-28	1
2	035561	Washer Flat Sae Pltd 5/8 Gr8	1
3	203679	Scr-hx Hd,Plt,5/8-11x5-1/2 Gr5	1
4	303051	Nut-lock,5/8-11 Gr C	1
5	303463	Bushing-press Fit	1
6	311894	Front Arm Machining	A 1
7	352409	Pub Arm Wldmt-lh	B 1
8	896024	Loctite 609 1.00000	0





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Item	Pt No.	Description	Qty
-	352406	Pickup Broom Arm RH	- Ref
1	303463	Bushing—press Fit	1
2	352405	Pub Arm Wldmt—rh	A 1
3	896024	Loctite 609 (Not Shown)	0





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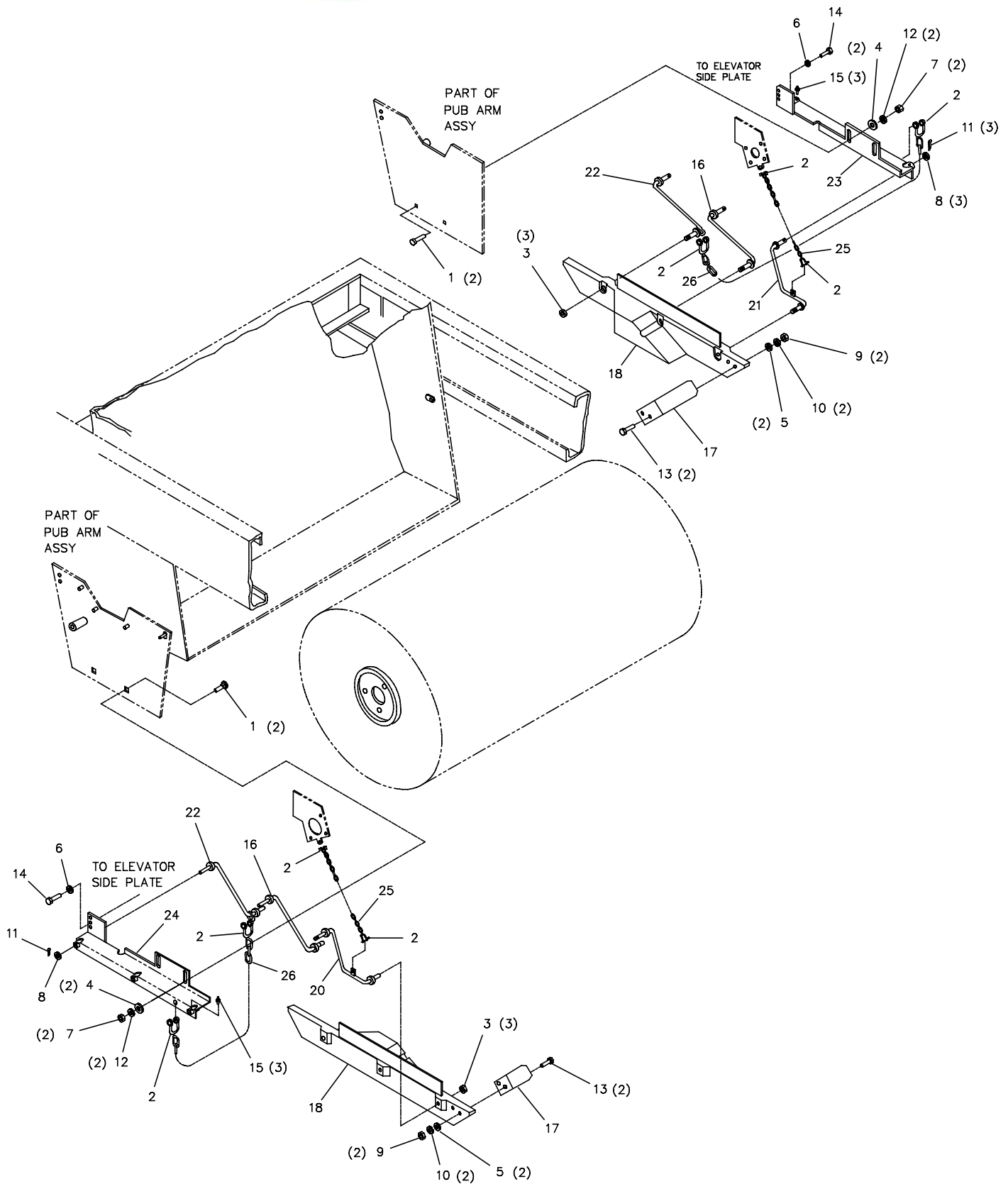


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Pickup Broom Dirt Shoe Assy



CHAPTER 3





**Pickup Broom
Dirt Shoe Assy**

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Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	317788	Dirt Shoe Assembly	D Ref	18	324797	Dirt Shoes, Poly	A Ref
1	023439	Bolt- Carr 7/16-14 X 1 1/4	4		352394	Runner-dirt Shoe, Rh	A 1
2	030264	Shackle	A 8		352395	Runner-dirt Shoe, Lh	A 1
3	030470	Nut- Lock, Plated, 5/8-18	6				
4	030499	Washer- Loc, Split, Blk, 7/16 Gr8	4	20	303337	Pivot Rod Wldmt Lh	H 1
5	030557	Washer Flat Uss Plated 3/8	4	21	30333701	Pivot Rod Wldmt Rh	H 1
6	030592	Washer- Loc, Splt Pltd 1/2 Gr8	2	22	304368	Pivot Rod Wld	G 2
7	030594	Nut- Plated, 7/16-14 Gr8	4	23	301297	Supt Brkt Wld Rh	G 1
8	030558	Washer Flat Uss Plated 5/8	6	24	301298	Supt Brkt Wld - Lh	G 1
9	030599	Nut- Plated, 3/8-16 Gr8	4	25	890919012	Chain #2/O, 12 Links	2
10	030605	Washer- Loc, Split, Pltd, 3/8 Gr8	4	26	890919015	Chain #2/O, 15 Links	2
11	031296	Pin- Cotter, 3/16 X 1-1/2	6				
12	031506	Washer Flat Uss Plated 7/16	4				
13	033146	Scr- Hx Hd Pltd 3/8-16 X 2	4				
14	033150	Scr- Hx Hd Pltd 1/2-13 X 1-1/4	2				
15	035136	Zerk Fitting 1/4-28	6				
16	301247	Pivot Rod Wld	G 2				
17	301300	Deflector	A 2				





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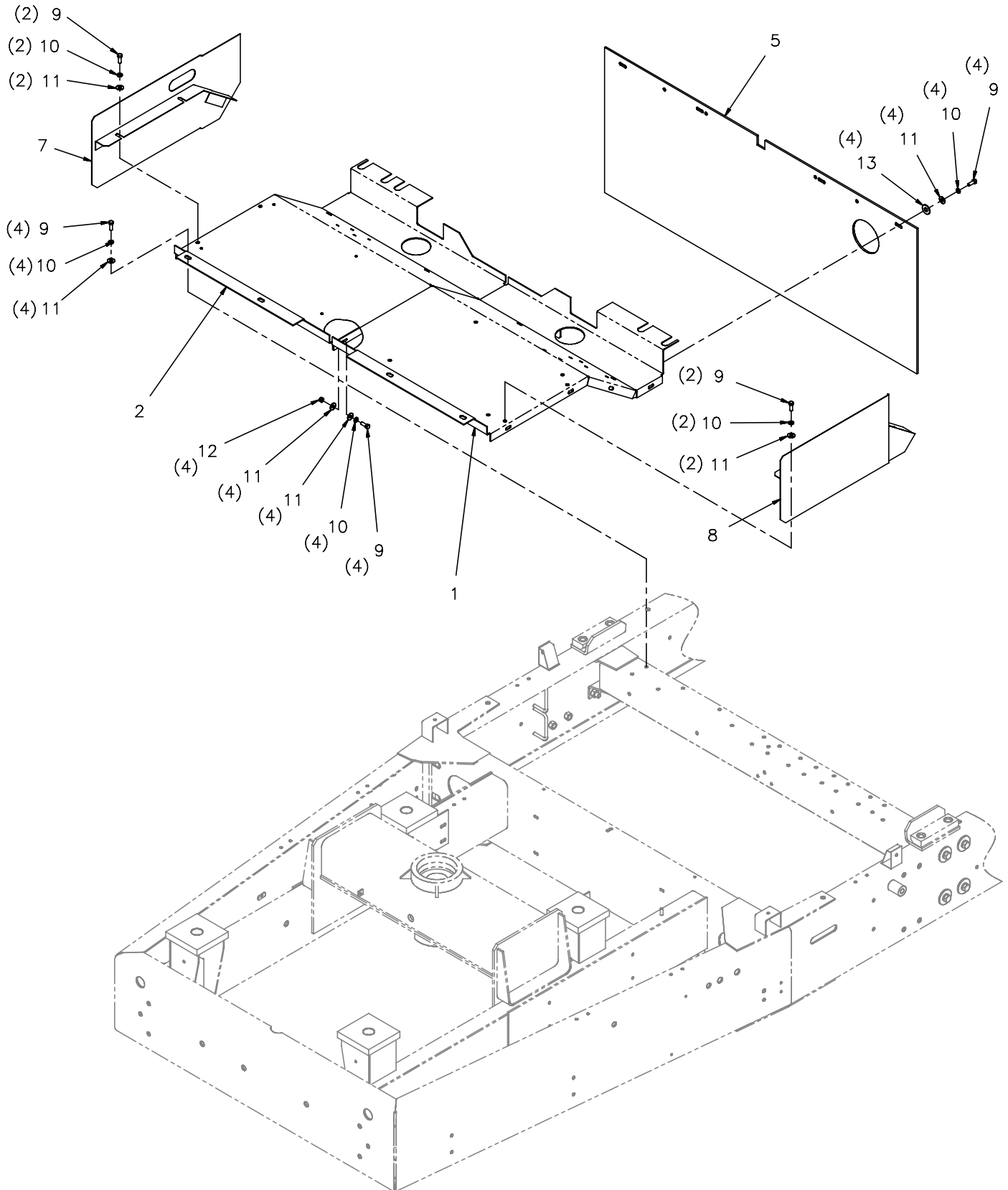


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Pickup Broom Dust Cover Instl



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Pickup Broom Dust Cover Instl

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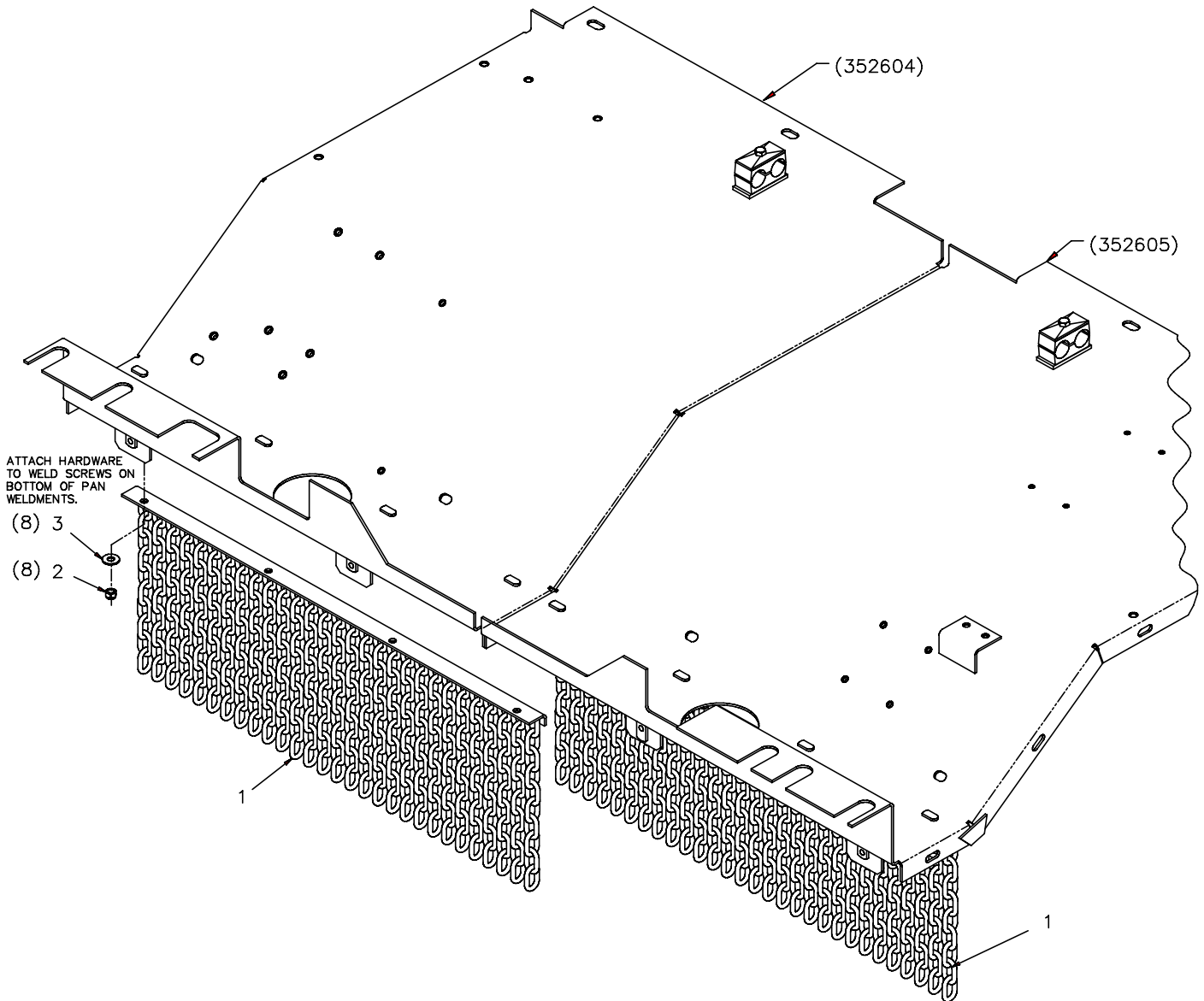
Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	322184	PUB Dust Cover Installation	*D Ref				
1	326321	Pub Cover Weldment, Rh	1				
2	326320	Pub Cover Weldment, Lh	1				
5	353013	Flap-Deflector, Pub	1				
7	353650	Side Shield Widmt-Lh	1				
8	352627	Side Shield Widmt-Rh	1				
9	034423	Scr-Hx Hd,3/8-16x1 Gr8	12				
10	030605	Washer- Loc,Split,Pltd,3/8 Gr8	12				
11	030557	Washer Flat Uss Plated 3/8	16				
12	030599	Nut- Plated, 3/8-16 Gr8	4				
13	030595	Washer Flat Uss Plated 1/2	4				





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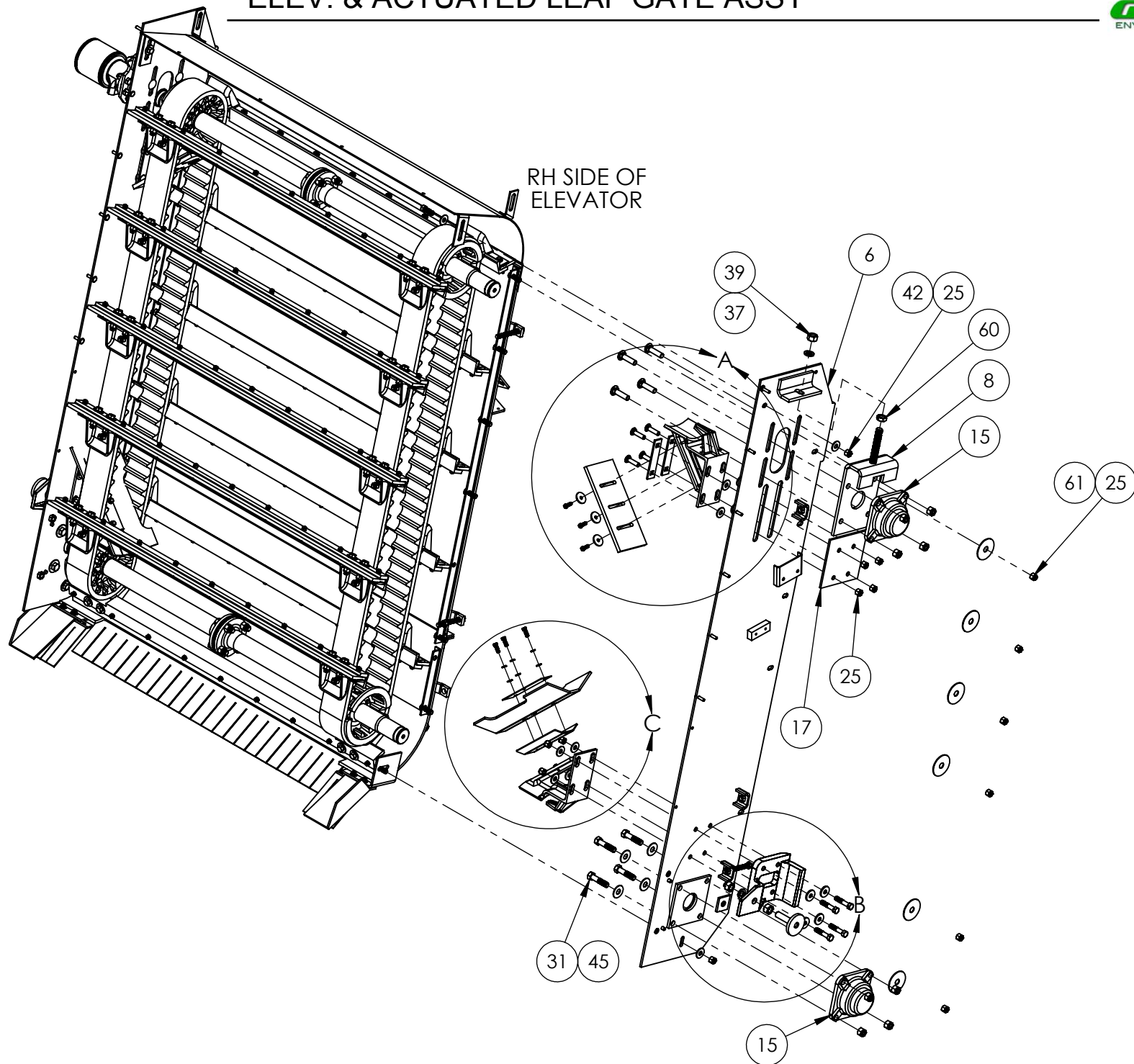
Item	Pt No.	Description	Qty
-	325740	PUB Chain Curtain Installation	A Ref
1	325739	Chain Curtain Weldment	2
2	023559	Nut- Loc Nyl Insert PI 5/16-18	8
3	030489	Washer Flat Uss Plated 5/16	8

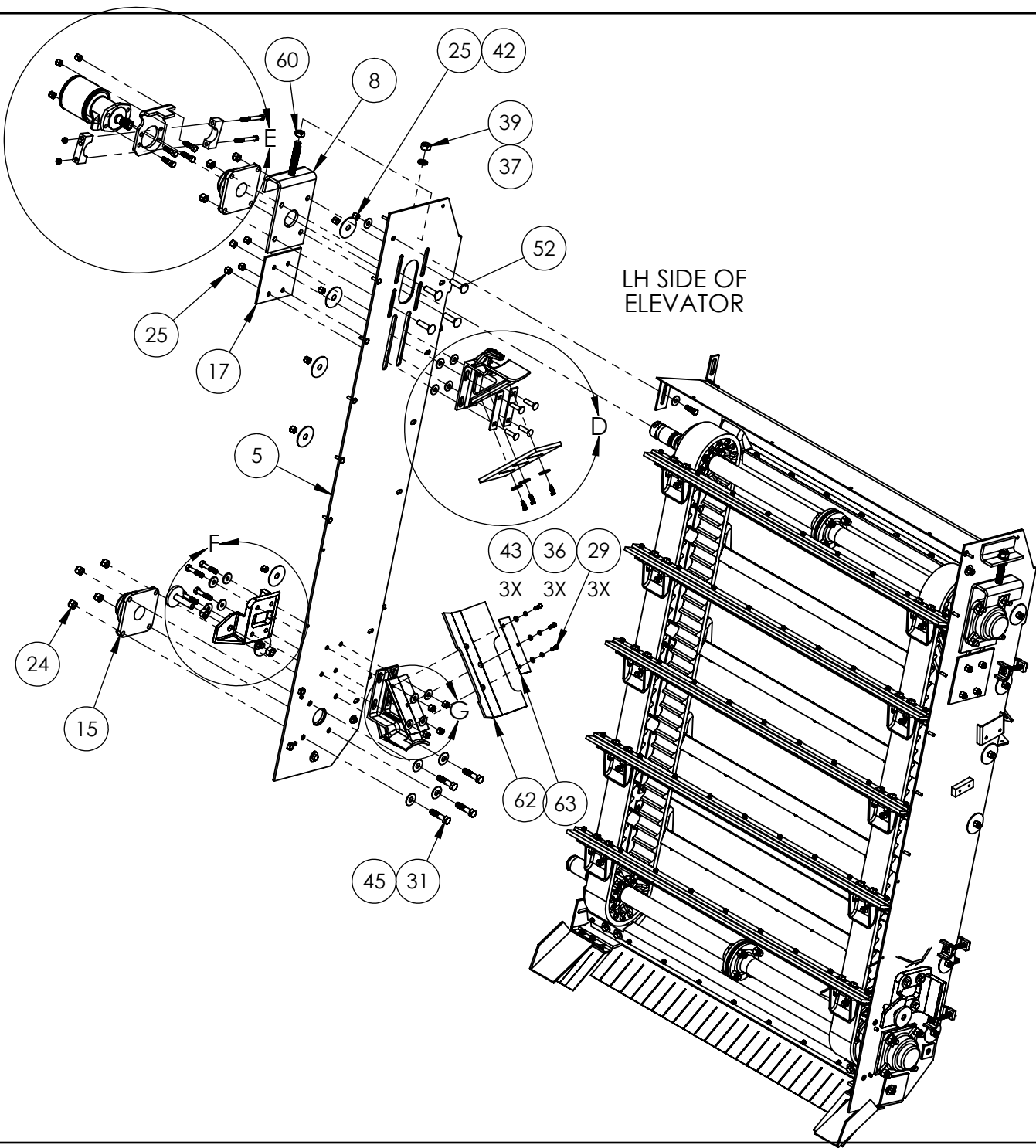




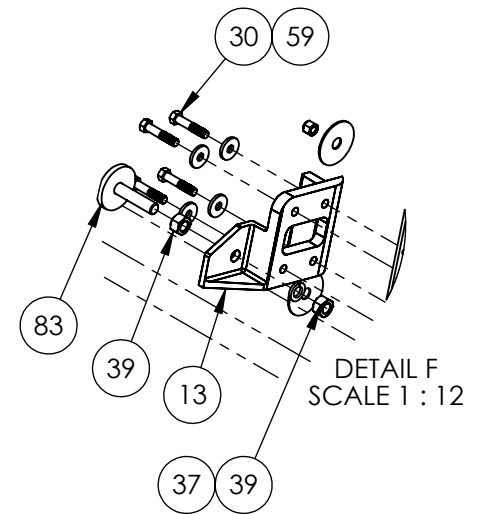
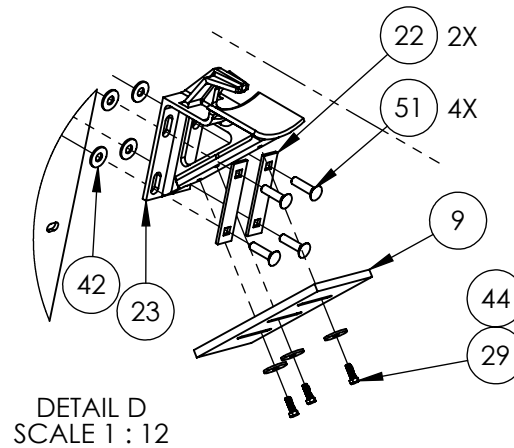
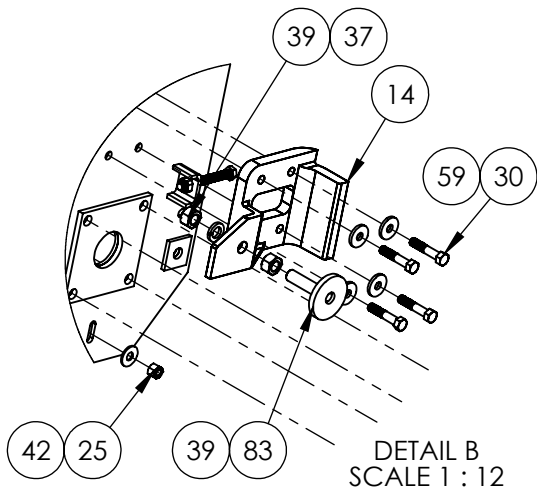
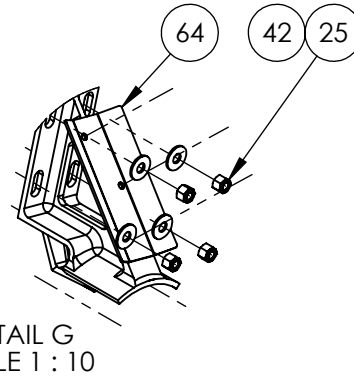
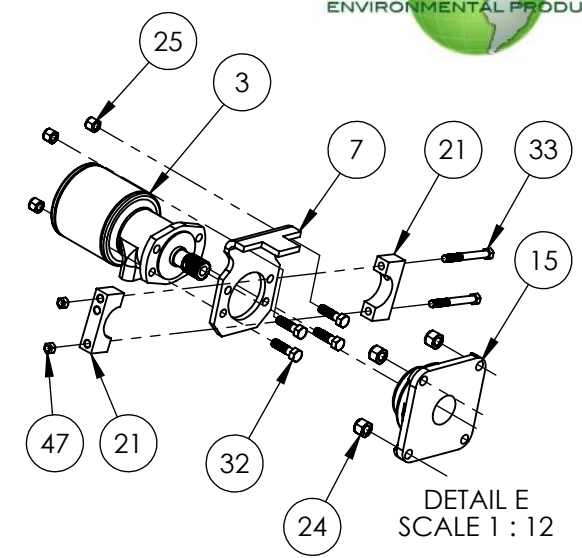
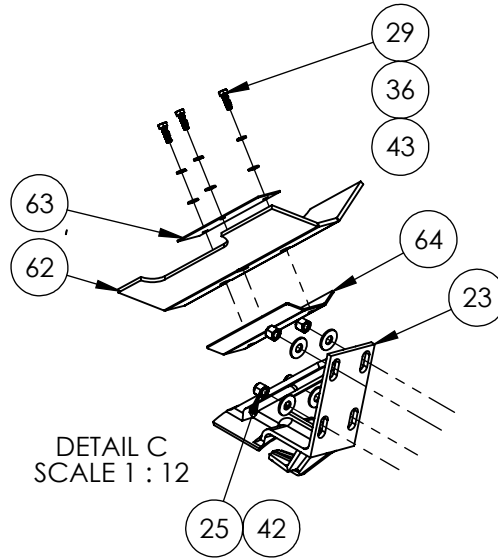
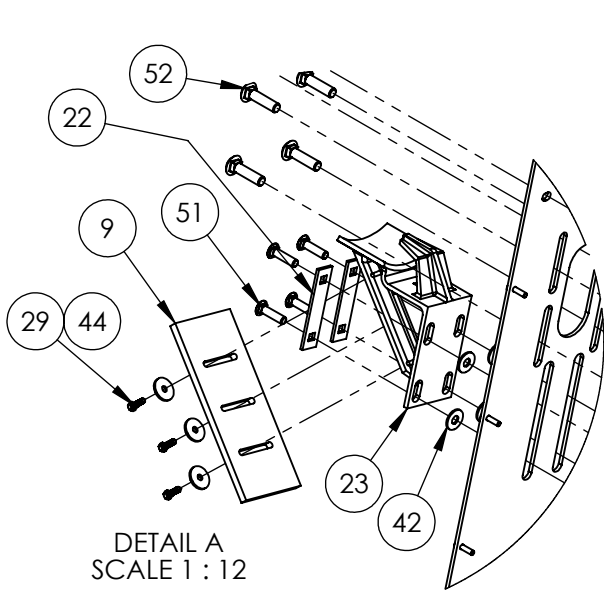
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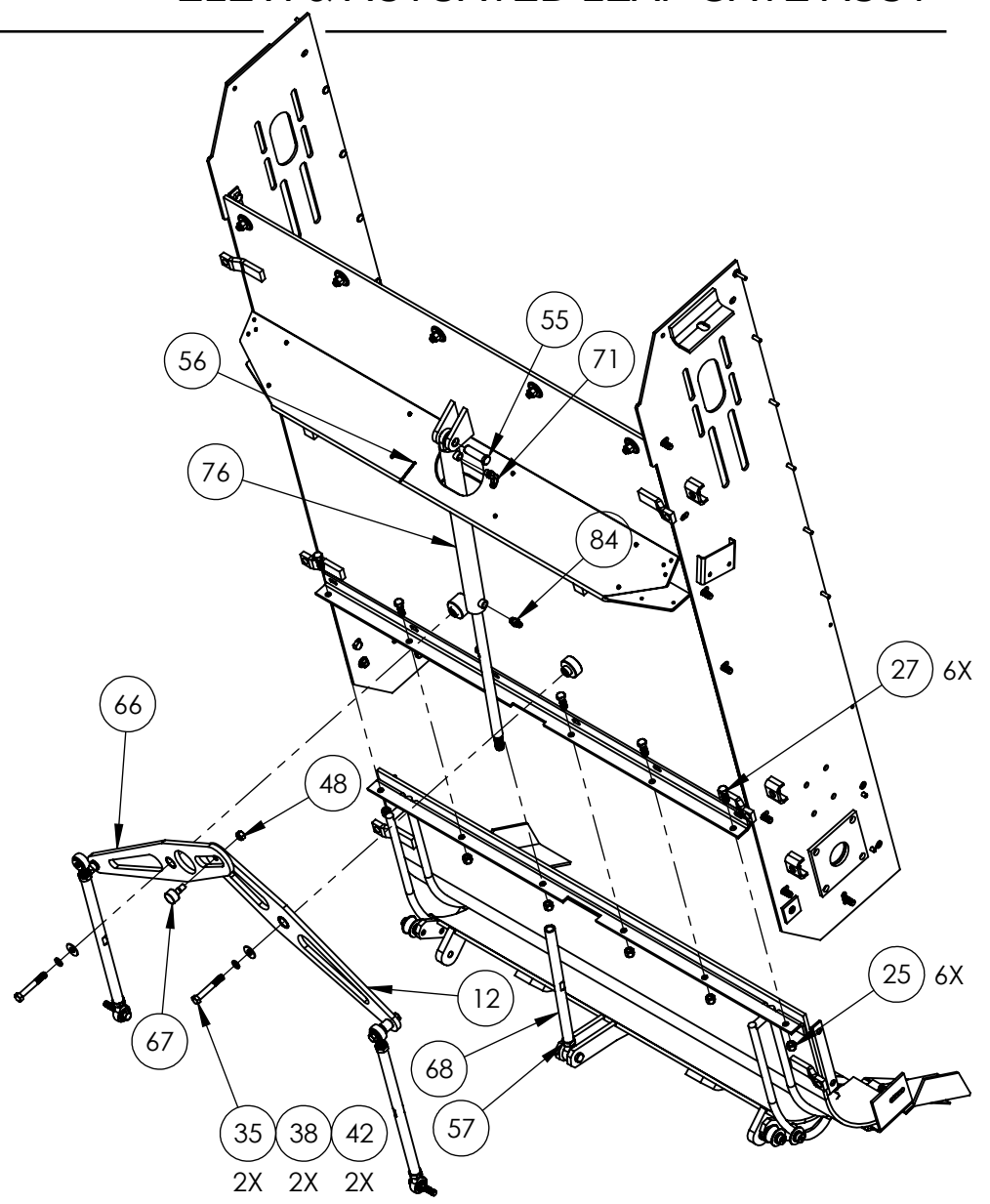
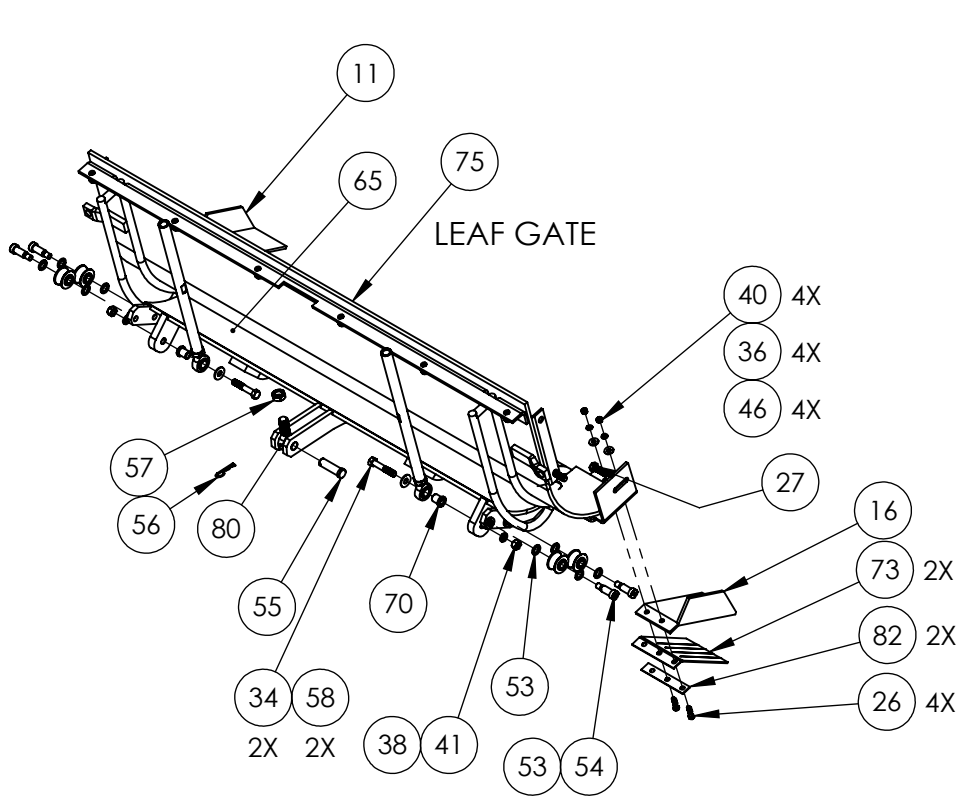
ELEV. & ACTUATED LEAF GATE ASSY



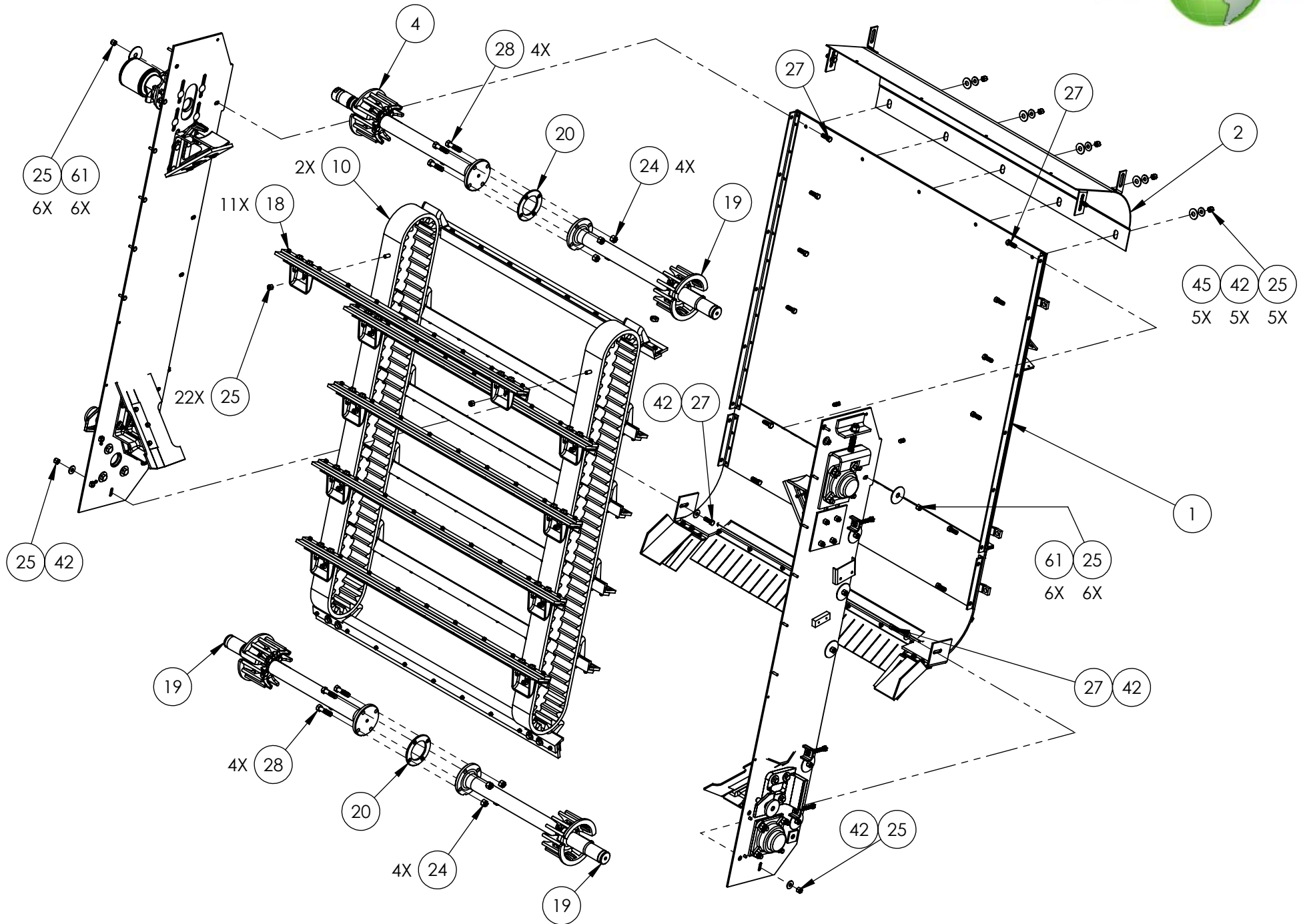


ELEV. & ACTUATED LEAF GATE ASSY





ELEV. & ACTUATED LEAF GATE ASSY

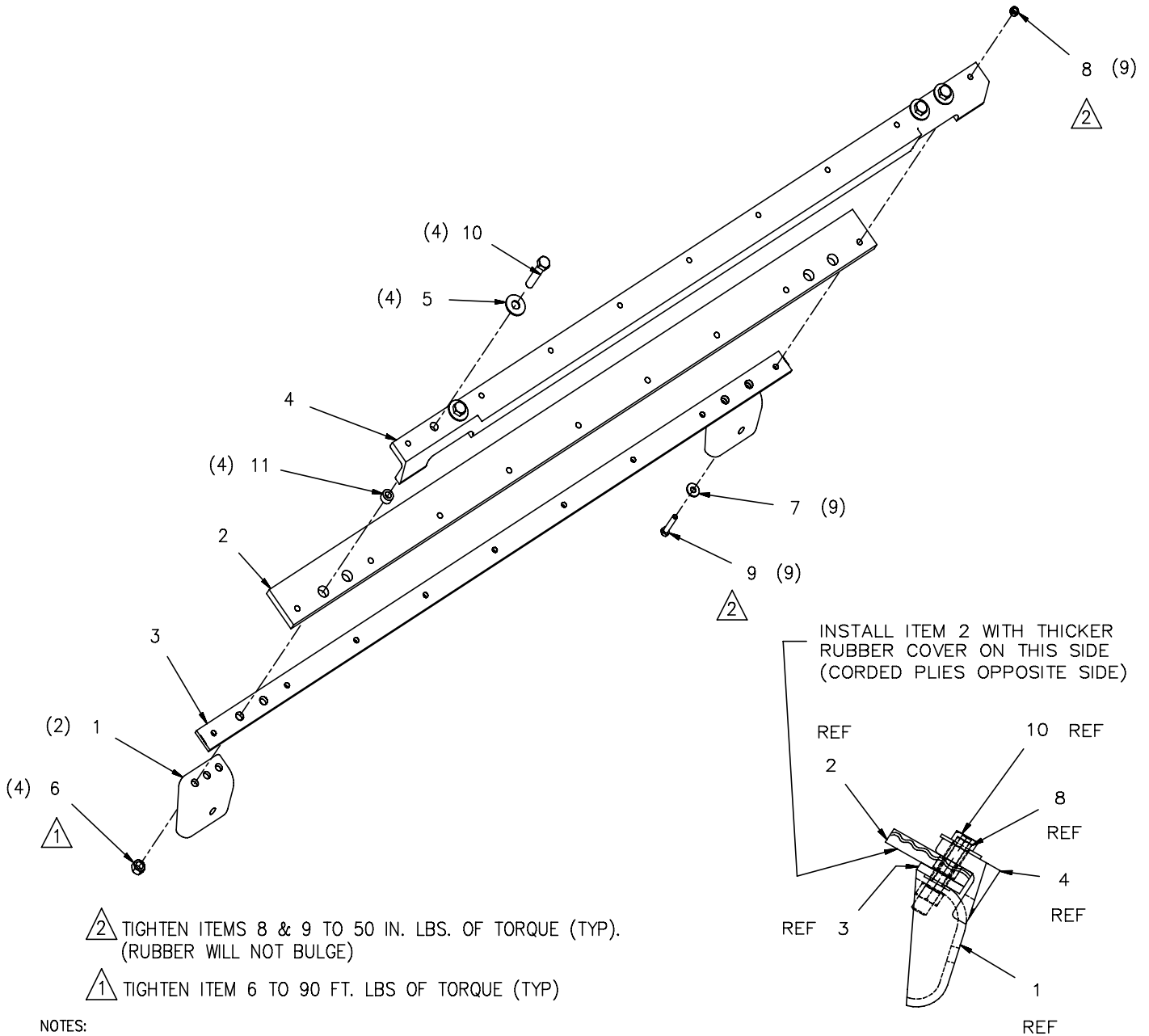




ELEV. & ACTUATED LEAF GATE ASSY

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
REF	333211	ACTUATED LEAF GATE, ASSY	REV A
1	329796	BOTTOM PLATE WLDMT - ELEV. (UPPER)	1
2	329802	WELDMENT - ELEVATOR ARCH	1
3	E308612	MOTOR, REWORK	1
4	308833	ELEV. HALF SHAFT ASSY (LH) UPR.- ALL UNITS	1
5	329793	ELEVATOR SIDE PLATE WELDMENT, (LH)	1
6	329794	ELEVATOR SIDE PLATE WELDMENT, (RH)	1
7	E300024	ANGLE - HYD. MTR. MTG.	1
8	E350565	BRACKET, BEARING, WELDMENT	2
9	E300063	DEFLECTOR PAD	2
10	E381746	CHAIN, ELEVATOR - ARAMID (11 FLT)	2
11	329605	DEFLECTOR, DIRT SHOE, RH	1
12	326775	ARM, ASSEMBLY - REAR	1
13	317842	STOP MACHINING-LH	1
14	317841	STOP MACHINING-RH	1
15	313002	ELEV BEARING REWORK- CAP DRAIN	4
16	329606	DEFLECTOR, DIRT SHOE, LH	1
17	E350577	SIDE PLATE, ELEVATOR	2
18	310948	SQUEEGEE ASSEMBLY- ALL UNITS	11
19	308832	ELEV. HALF SHAFT ASSY 2-3/16" DIA RH UPR.	3
20	E308769	SPACER	2
21	E309645	LOCK COLLAR	2
22	E350567	BOLT RETAINER PLATE	4
23	E30025501	SPROCKET SHIELD - MACHINED	4
24	038598	NUT,HEX,NYLON LOCK,5/8-11-UNC	24
25	034599	NUT,HEX,NYLON LOCK,1/2-13-UNC	69
26	031434	BOLT,HEX,HEAD,5/16-18-UNC x 1 1/4"LG	4
27	033151	BOLT,HEX,HEAD,1/2-13-UNC x 1 1/2"LG	22
28	305467	BOLT,HEX,HEAD,5/8-11-UNC x 2 1/2"LG	8
29	031433	BOLT,HEX,HEAD,5/16-18-UNC x 1"LG	19
30	305400	BOLT,HEX,HEAD,1/2-13-UNC x2 1/2"LG	10
31	053472	BOLT,HEX,HEAD,5/8-11-UNC x 2 3/4"LG	8
32	041847	BOLT,HEX,HEAD,1/2-13-UNC x 1 3/4"LG	4
33	309659	BOLT,HEX,HEAD,7/16-20-UNC x 4 "LG	2
34	18004-43	BOLT,HEX,HEAD,1/2-13-UNC x2 3/4"LG	2
35	033232	BOLT,HEX,HEAD,1/2-13-UNC x3 1/2"LG	2
36	030373	WASHER,SPRING LOCK,Ø 5/16"	17
37	031505	WASHER,SPRING LOCK,Ø 3/4"	4
38	030592	WASHER,SPRING LOCK,Ø 1/2"	6
39	030426	NUT, HEX, 3/4-10-UNC	6
40	030617	NUT, HEX, 5/16-18-UNC	11
41	030596	NUT, HEX, 1/2-13-UNC	10
42	030595	WASHER,FLAT,Ø 1/2",USS,(1 3/8" O.D.)	31
43	651420	WASHER,FLAT,Ø 5\16", SAE NARROW, 11/16" O.D.	6
44	E606999	WASHER,FLAT FENDER,Ø 3/8" X 1.5 O.D., 10Ga"	6
45	030558	WASHER,FLAT,Ø 5/8", USS Gr.8	13

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
46	030489	WASHER,FLAT,Ø 5/16",USS,WIDE,7\8" O.D.	4
47	309660	NUT,HEX, 7/16-20-UNF,CONELock	2
48	380106	NUT,HEX, 1/2-20-UNF,CONELock,PLATED	1
49	900378	LOCK NUT 1/2-13 PLATED	3
50	329804	SCR.-HEX HD PLATED, 1/2"-13UNC X 4.5" LG. GR#5	6
51	310607	BOLT-CARR PLATED,1/2-13 UNC X 2" LG	8
52	309144	BOLT-CARR, 5/8"-11 UNC X2-1/2" LG.	8
53	329958	WASHER-FLAT, 1.0" OD X 5/8" ID SST	8
54	329957	SCREW,SHOULDER,Ø5/8x1 1/4"LG (1/2-13-UNC)	4
55	326043	CLEVIS PIN Ø3/4" X 2-1/2" Lg.	2
56	314469	HAIRPIN, 5/8" DIA SHAFT	2
57	301521	JAM NUT 3/4-16	5
58	023687	WASHER FLAT SAE PLATED 1/2 GR8	4
59	E609297	WASHER-.53 ID X 1.5 OD,7 GA Special	8
60	032018	NUT,HEX,JAM,3/4-10-UNC	2
61	E611270	WASHER 3" O.D. X .765 I.D.	12
62	E328275	RUBBER SHIELD, SPROCKET	2
63	E328277	PLATE RUBBER RECTANGLE	2
64	E328276	SUPPORT PLATE, RUBBER	2
65	329938	ELEVATOR LEAF GATE, WELDMENT	1
66	A326776	ARM, ASSEMBLY - FRONT	1
67	325954	Roller, Leaf Gate 1-1/4" DIA	1
68	E326516	Extension, Cyl. Rod	1
69	E326746	Rod, Connecting - Leaf Gate	2
70	E326747	Bushing, Flange	4
71	054289	ELBOW, MB-MJ90-6	1
72	325947	RUBBER FLAP, LEAF GATE LIP	1
73	E326567	RUBBER FLAP, END	2
74	E325951	PLATE RETAINER	1
75	329948	WELDMENT, ELEVATOR BOTTOM	1
76	326045	HYD CYL, 1.5 BORE X 16.88 STROKE	1
77	325737	FITTING,HYD,STR,MORB-04 X MJIC-06	4
78	329956	ROLLER, LEAF GATE	4
79	304610	RECTANGLE	1
80	380989	Rod End, Spherical, Male, 3/4-16 UNF	5
81	E326717	Pin, Pivot	2
82	E326577	PLATE, RETAINER - SHORT	2
83	E303103	ELEV STOP WLD	2
84	204003	CONN, MB-MJ-6	1

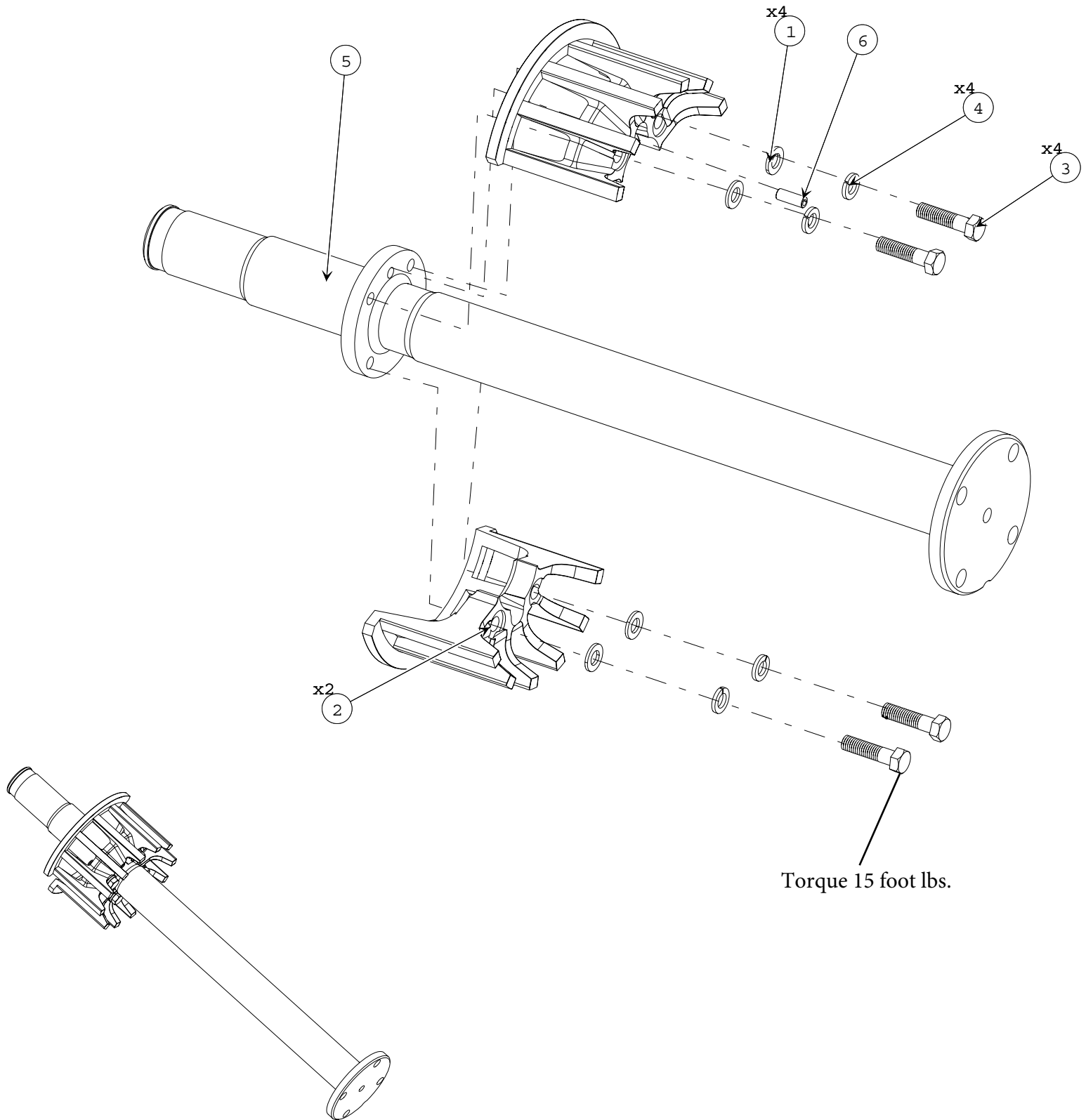


NOTES:

Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	310948	Squeegee Assembly	D Ref				
1	309366	Cstg.- Elev Flight Mtg Brkt	2	7	030489	Washer- Flat Uss Plated 5/16	9
2	306096	Squeegee-rubber	H 1	8	023559	Nut- Loc Nyl Insert Pl 5/16-18	9
3	306095	Backing Strip	C 1	9	050208	Scr-hx Hd,Pltd,5/16-18x1-3/4	9
4	310947	Angle- Machined	K 1	10	305400	Scr-hx Hd,Plt,1/2-13x2-1/2 Gr8	4
5	030595	Washer- Flat, Uss Plated 1/2	4	11	057793	Tube-spacer	C 4
6	034599	Nut-nyl Insert, Plated, 1/2-13	4				



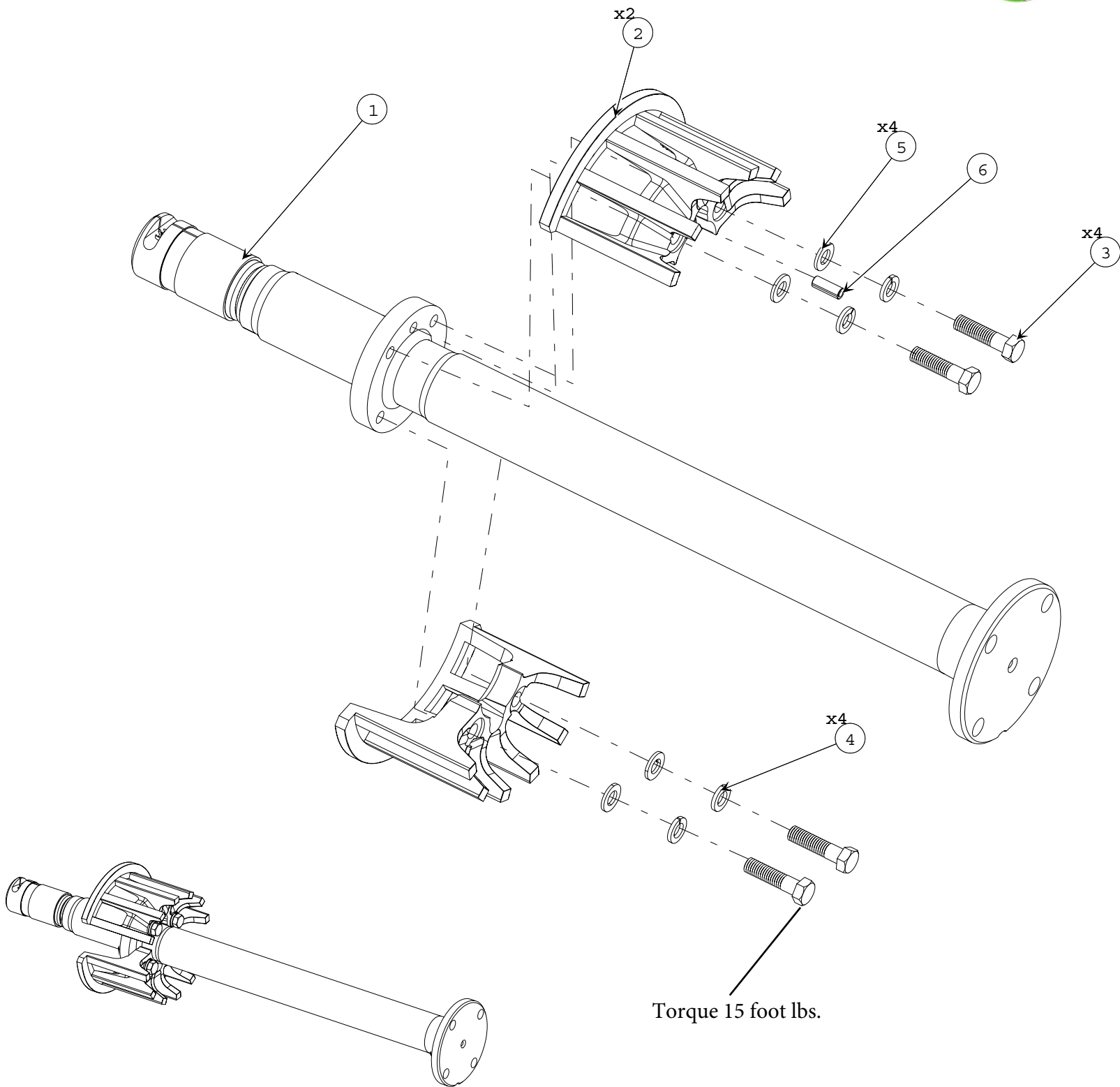
NOTES
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BOM ID	PART	Description	Qty	BOM ID	PART	Description	Qty
1	312684	WASHER-FLAT, 12mm	4	5	308301	EVEV. HALF SHAFT- MACHINING	1
2	350475	SPROCKET, SPLIT - HARDFACE	2	6	308766	SLOTTED SPRING TENSION PIN(INCH)	1
3	319477	BOLT, HEX, HEAD, 1/2-13-UNC X2 LG.	4				
4	030592	WASHER- LOC, SPLT PLTD 1/2 GR8	4				



NOTES
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BOM ID	PART	Description	Qty	BOM ID	PART	Description	Qty
1	308829	ELEV HALF SHAFT WELDMENT	1	5	312684	WASHER-FLAT, 12mm	4
2	350475	SPROCKET, SPLIT - HARDFACE	2	6	308766	PIN, SPRING SLOT 3/8" X 1" LG.	1
3	319477	BOLT, HEX, HEAD, 1/2-13-UNC X2	4				
4	030592	WASHER- LOC, SPLT PLTD 1/2 GR8	4				



NOTES
NOTES



CHAPTER 4

Group--Cab/Pedal/AC

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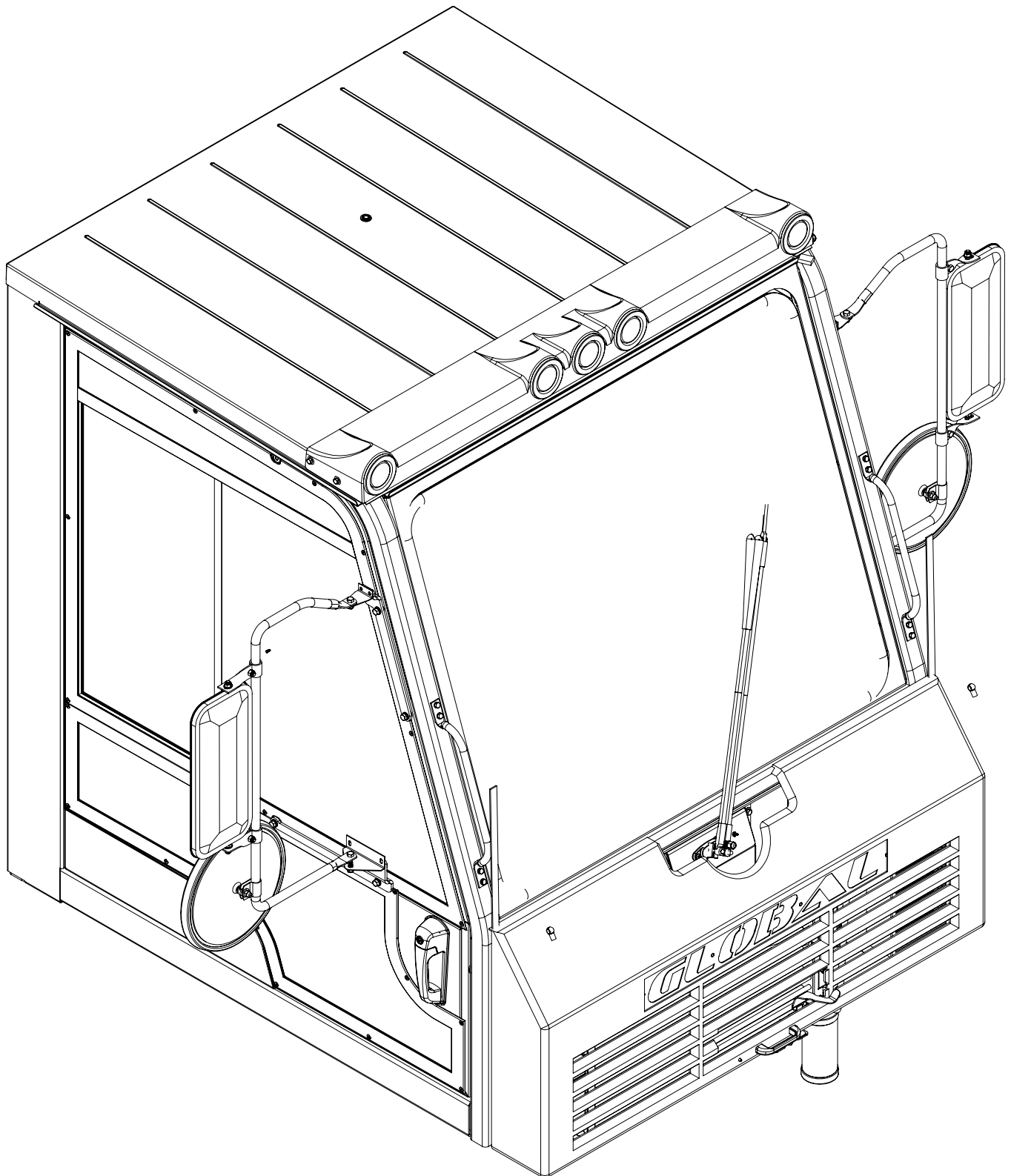
<u>Subject</u>	<u>Page</u>
M--Cab Assembly	4.2
Cab Door Assembly	4.14
Sun Visor Assembly	4.23
Wiper Motor Assembly	4.26
Steering Column Assembly	4.28
Dome Light Assembly	4.31
Driver Seat Assembly	4.33
Buddy Seat Assembly	4.35
Step Installation	4.37
Pedal & Brake Assembly	4.39
Mechanical Shifter	4.42
Master Cylinder	4.47
A/C & Heater Installation	4.49
A/C Evaporator Housing Assembly	4.54
A/C Hose Support Installation	4.57
Light bar assy	4.59

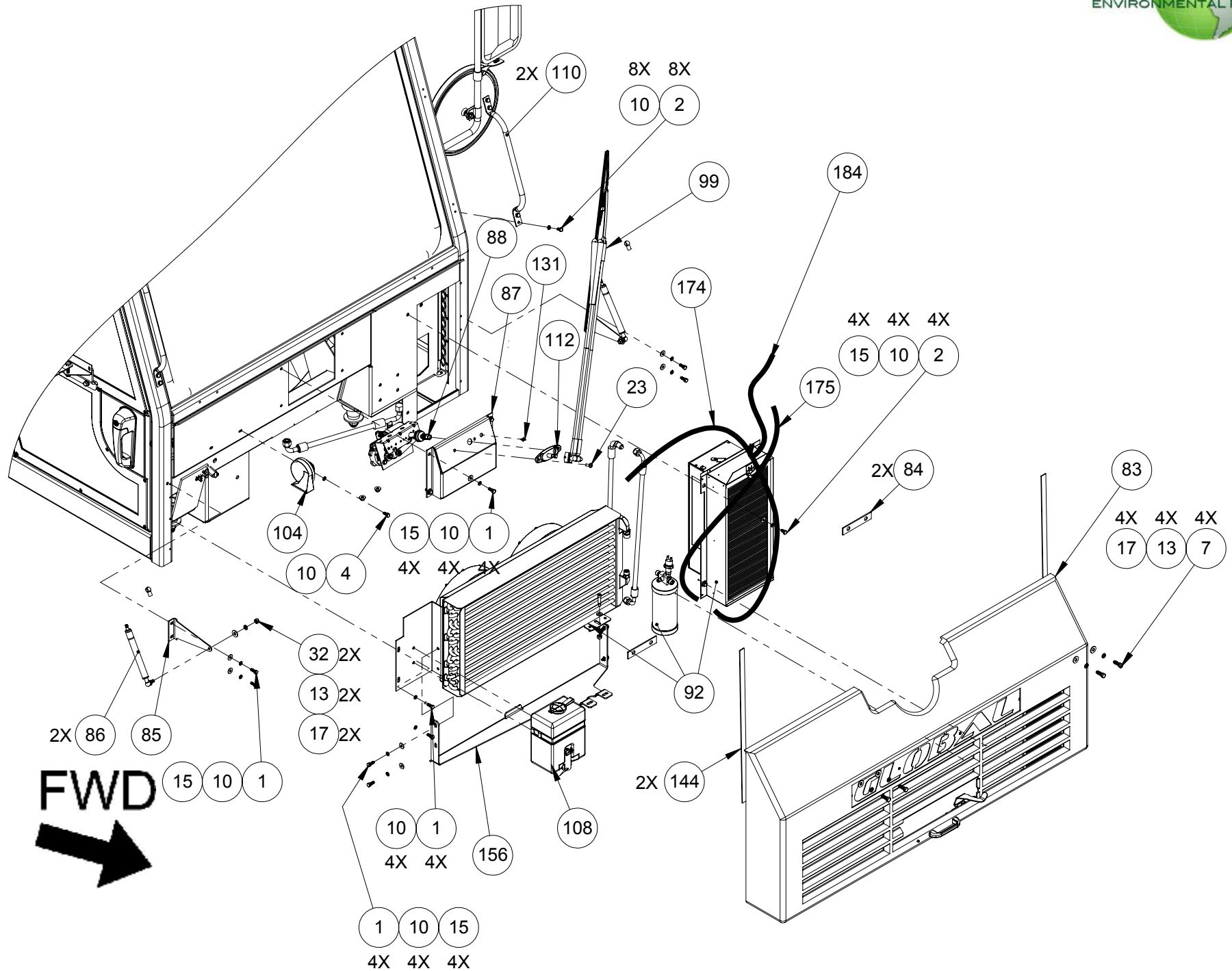
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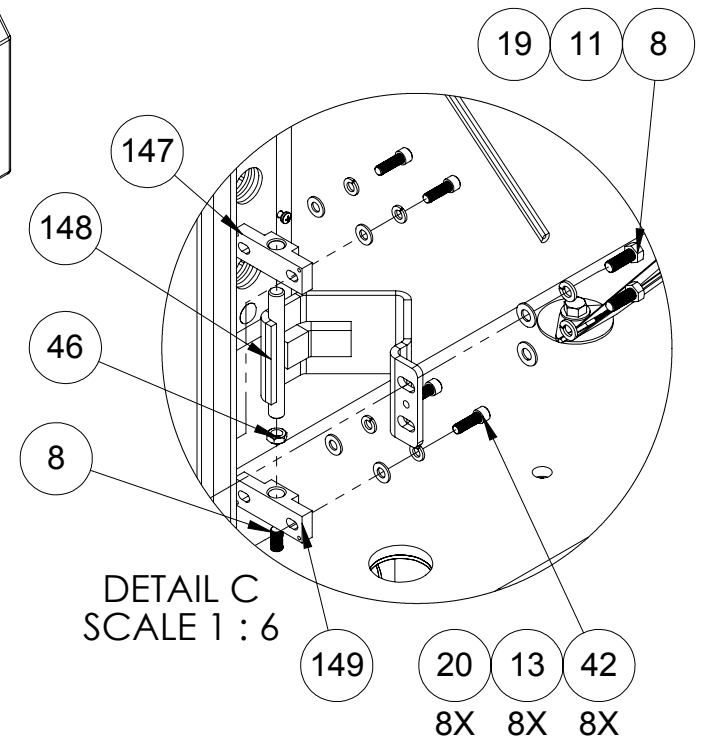
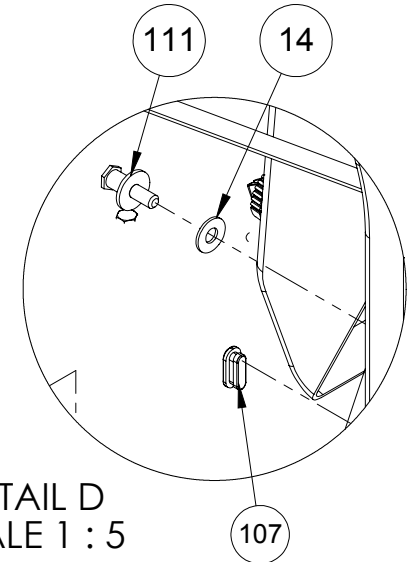
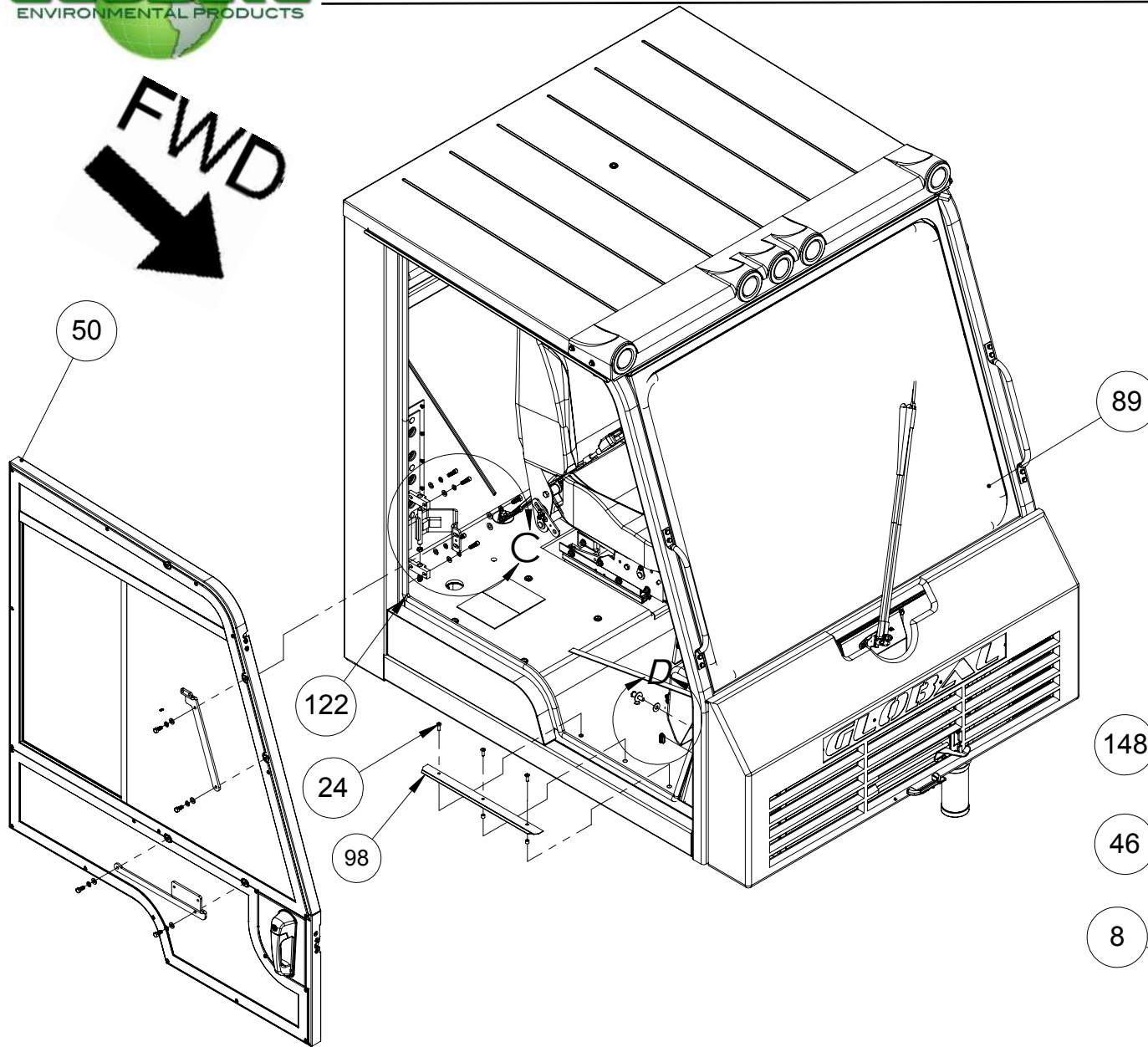


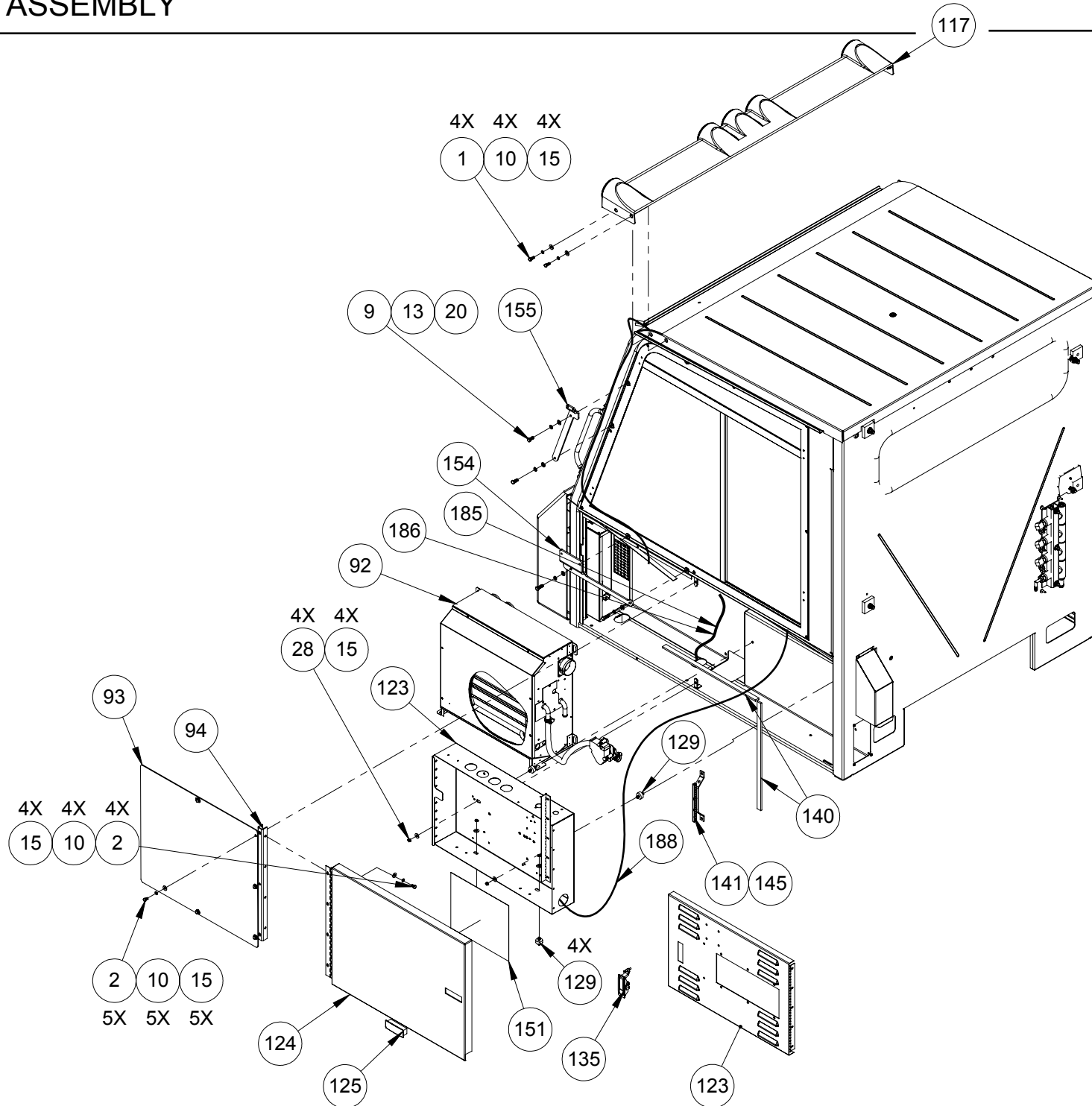
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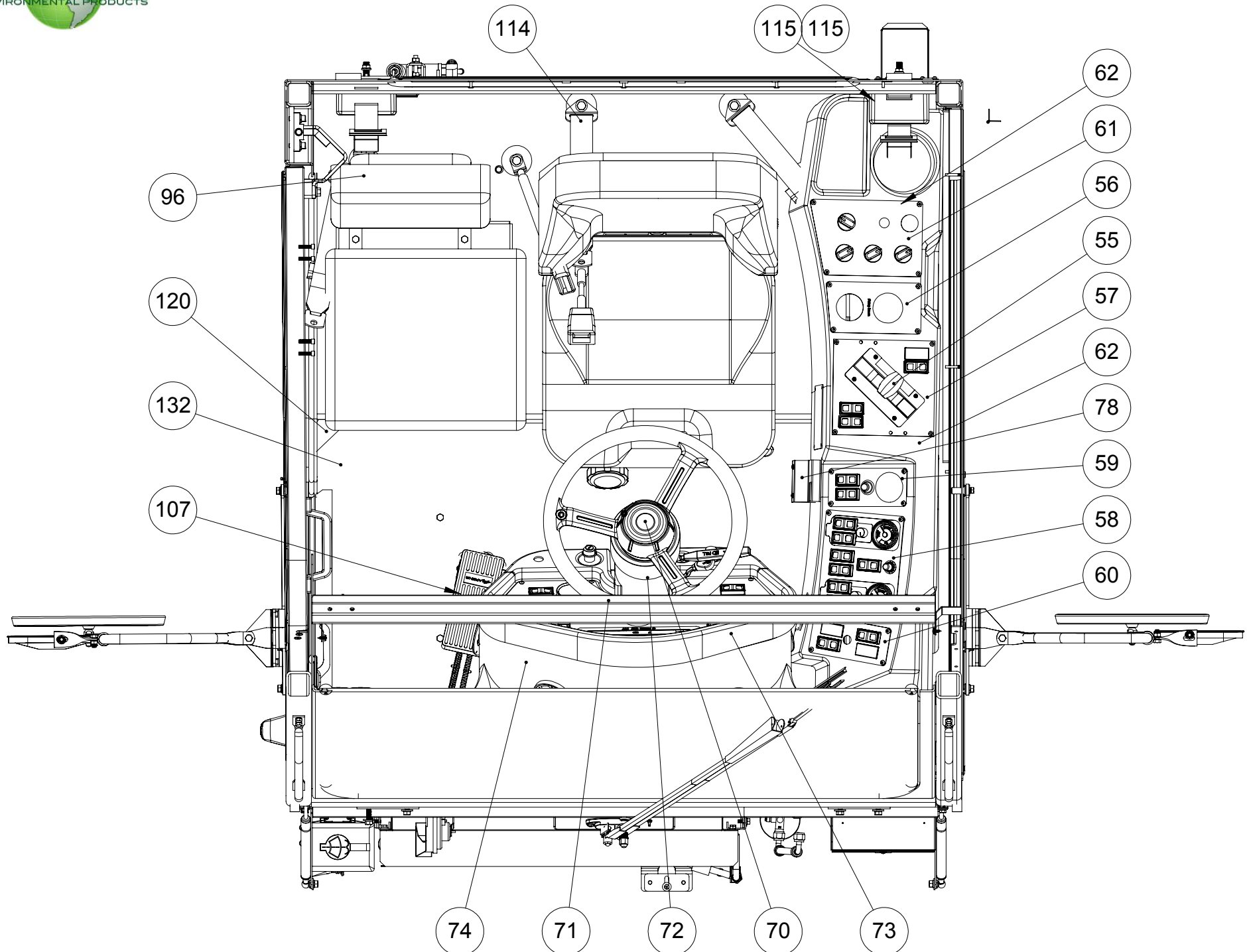
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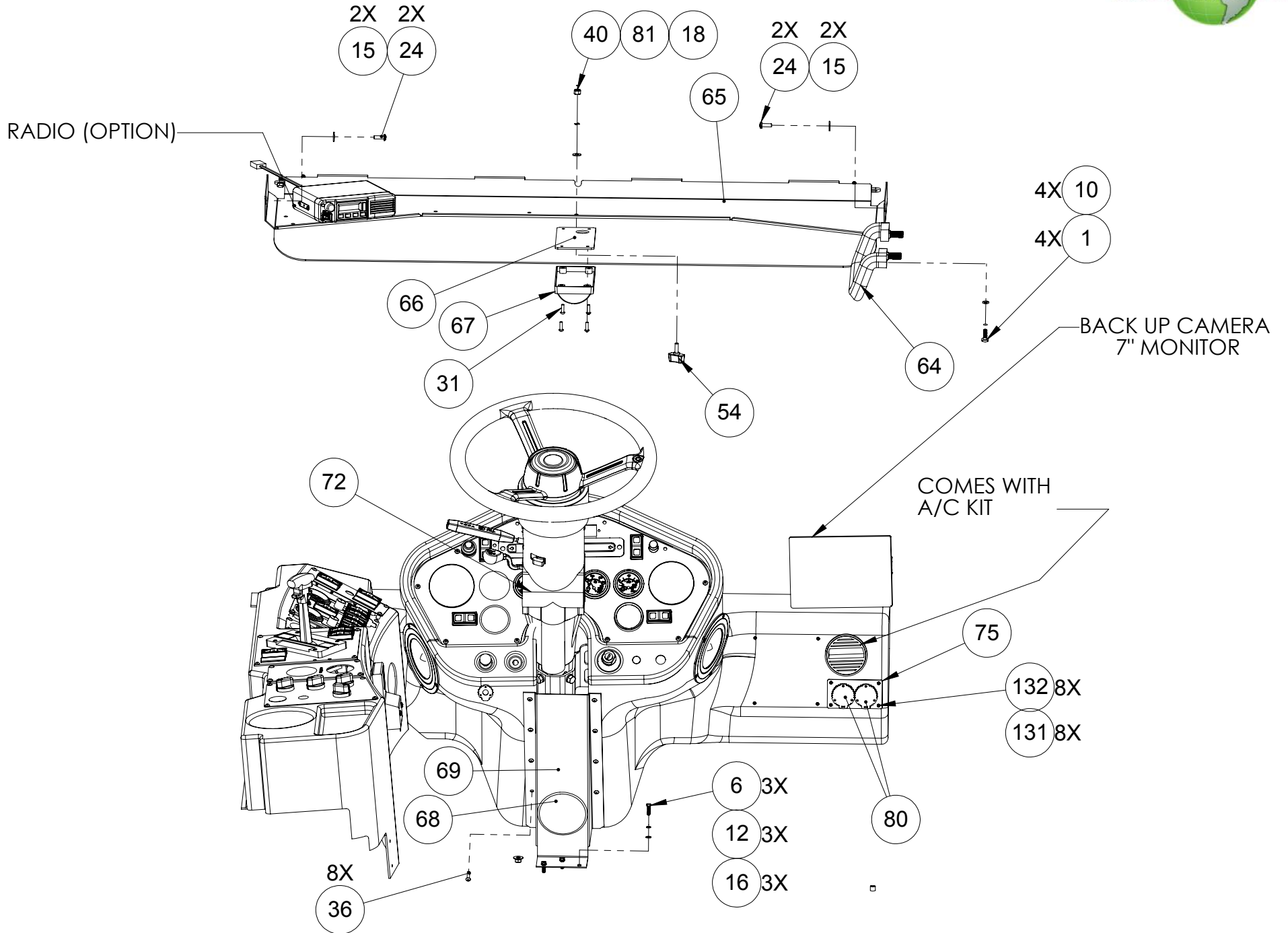














ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
REF	331616	CAB ASSEMBLY	REV 1
1	033145	BOLT,HEX,HEAD,Ø 1/4-20-UNC x 3/4"LG	26
2	031428	BOLT,HEX,HEAD,Ø 1/4-20-UNC x 1½"LG	23
3	304720	BOLT,HEX,HEAD,3/4-10-UNC x 4"LG	4
4	026205	BOLT,HEX,HEAD,Ø 1/4-20-UNC x 5/8"LG	1
5	034423	BOLT,HEX,HEAD,3/8-16-UNC x 1" LG. GR8	4
6	318833	BOLT,HEX,HEAD,Ø #10-24-UNC x 3/4"LG	5
7	031433	BOLT,HEX,HEAD,5/16-18-UNC x 1"LG	4
8	330838	BOLT,HEX,HEAD,3/8-24-UNF x 1 1/4"LG	6
9	030483	BOLT,HEX,HEAD,5/16-18-UNC x 3/4"LG	9
10	030643	WASHER,SPRING LOCK,Ø 1/4"	54
11	030605	WASHER,SPRING LOCK,Ø 3/8"	10
12	035604	WASHER,SPRING LOCK,Ø #10	31
13	030373	WASHER,SPRING LOCK,Ø 5/16"	32
14	030557	WASHER,FLAT,USS,Ø 3/8"	7
15	035605	WASHER,FLAT,Ø 1/4",USS,(3/4" O.D.)	39
16	036645	WASHER,FLAT,Ø #10,SAE NARROW	6
17	030489	WASHER,FLAT,Ø 5/16",USS,WIDE,7/8" O.D.	16
18	609606	WASHER,FLAT,Ø 1/4",SAE NARROW	1
19	038266	WASHER,FLAT,Ø 3/8",SAE NARROW	4
20	651420	WASHER,FLAT,Ø 5/16", SAE NARROW, 11/16" O.D.	17
21	310625	Bolt,Carriage,Round Head,5/16-18-unc x 2 1/4" lg.	3
22	038198	SCREW,PAN HEAD,CROSS DRIVE,#10-32-UNF X 1" LG.	10
23	325770	SCREW,PAN HEAD,CROSS DRIVE,1/4"-20-UNC X 3/4" LG.	2
24	032094	SCREW,PAN HEAD,CROSS DRIVE,1/4"-20-UNC X 3/4" LG.	7
25	325422	SCREW,PAN HEAD,CROSS DRIVE,#10-32-UNF X 3/4" LG.	2
26	600807		8
27	E353726	WASHER, CAB MOUNT	8
28	900105	NUT, KEPS #10-24 (ZP)	4
29	E353604	WASHER- SQ., SIDE CONSOLE	4
30	316585	NUT,PANEL #10-24,"U" SINGLE FIT.187" BLK	2
31	006810	SCREW, ROUND HD CROSS,#10-24-UNF x 1/2"LG.	11
32	030617	NUT, HEX, 5/16-18-UNC	9
33	030599	NUT, HEX, 3/8-16-UNC	2
34	030703	NUT, HEX, 1/4-20-UNC	2

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
35	321647	SCREW,BUTTON HEAD,SOCKET CAP,5/16-18-UNC X 1" LG.	4
36	317677	SCREW,BUTTON HEAD,SOCKET CAP,#10-32-UNC X " LG	43
37	326455		1
38	317725	NUTSERT- 10-32, ALUM. KNURLED	34
39	303265	NUT,HEX,NYLON LOCK,3/4-10-UNC	4
40	612667	NUT,HEX,NYLON LOCK,1/4-20-UNC	1
41	600808	NUT,HEX,NYLON LOCK,#4-40-UNC	7
42	057732	SCREW,SOCKET HEAD CAP,5/16-24 UNF X 1" LG.	8
43	314943	SCREW,SOCKET HEAD CAP,1/4-20 UNC X 1" LG.	4
44	351636	GROMMET, RUBBER Ø3/8" ID (1/8 x Ø5/8 GROOVE)	1
45	18010-5	WIRE & TUBE CLIP - 3/4"	1
46	330891	NUT,HEX,JAM,3/8-24-UNF	2
47	353676	SCREW,SOCKET HEAD C'SUNK,#10-32 UNF x 1/2" LG.(S.S.)	8
48	325138	SCR TYP A #10X5/8 OVL W/CS WAS	6
49	057732	SCREW,SHOULDER,Ø5/16x5/8"LG (1/4-20-UNC)	1
50	331463	CAB DOOR ASSEMBLY	1
51	356953	MIRROR MOUNT BRACKETS	1
52	356959	MIRROR MOUNT BRACKET UPPER RH	1
53	331511	STANDARD CAB, WELDMENT (M3 & M4)	1
54	325172	KNOB, BAR 1/4-20UNC X 3/4 STUD	1
55	325456	SHIFTER-LH MOUNT ASSY, RWK	1
56	318872	GAUGE PANEL ASSY-PICKUP BROOM	1
57	325076	SHIFT LEVER SWITCH PANEL ASSY	1
58	331021	PANEL ASSY, GB/ELEV, MX3J	1
59	324555	SW PANEL ASSY WTR PUMP/HOPPER	1
60	324641	PANEL ASSY - LIGHT SWITCH	1
61	325232	A/C HEATER CONTROL PANEL ASSY	1
62	353603	SIDE CONSOLE-INSTRUMENT PANEL	1
63	321621	VISOR, BUS, NYCCUM(N)	1
64	E318795	OFFSET HANDLE	1
65	354306	UTILITY TRAY	1
66	E317628	PAD, RUBBER-DOME LAMP	1
67	317629	LIGHT (DOME LAMP)	1
68	301216	PLUG-BUTTON, PLASTIC, 3.5"DIA	1
69	E353434	COVER-STEERING COLUMN	1
70	311708	HORN BUTTON ASSEMBLY	1

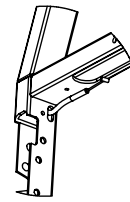
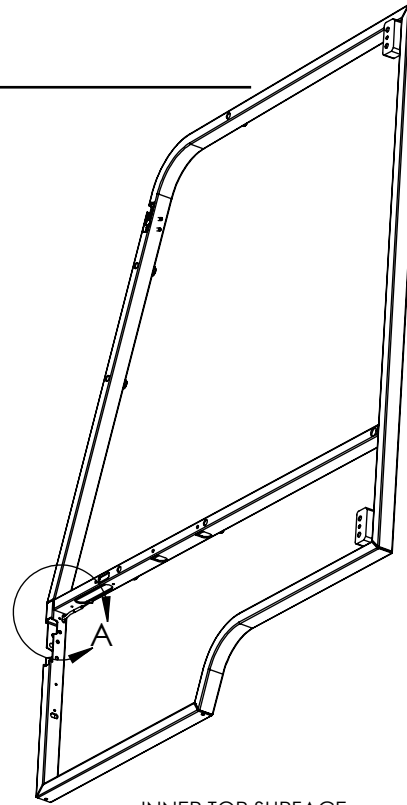
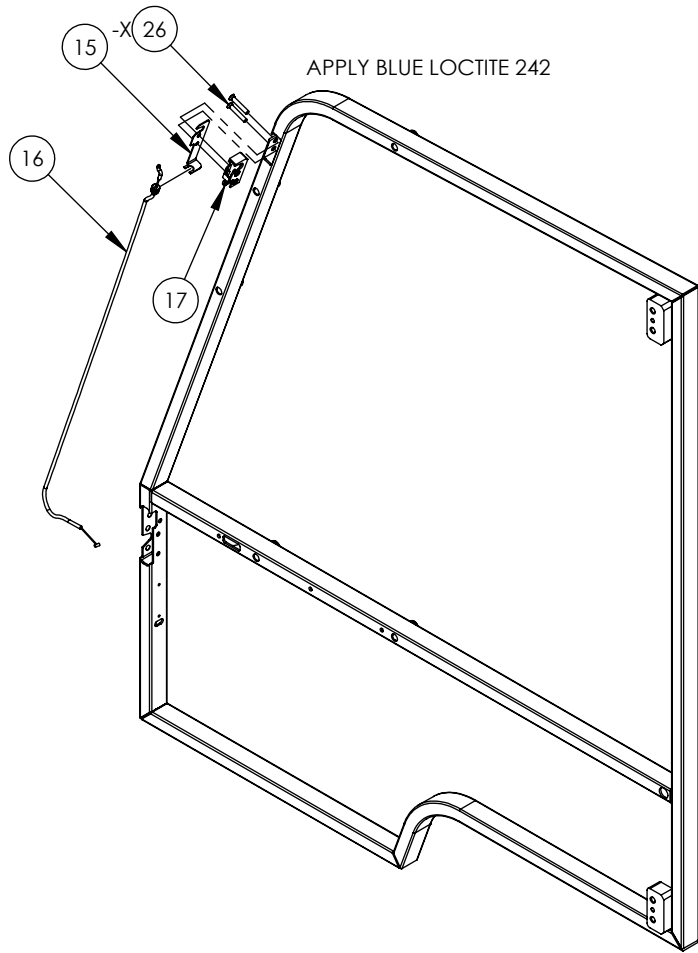
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
71	E318394	STEERING WHEEL - 16", 3 SPOKE	1
72	318395	STEERING COLUMN REWORK	1
73	331053	PANEL ASSY, FRONT CONSOLE, M4C	1
74	353605NY	DASHBOARD-CAB, NYC	1
75	E324502	PLATE, RECEPICAL MTG - DUAL	1
76	310911	RECEPTACLE COVER	2
77	330078	REAR CAMERA SYSTEM W/7"MONITOR	1
78	324964	CONTROLLER SX	1
79	325200	PROTECTIVE CAP, RECEPTACLE	1
80	324569	COVER, RECEPTACLE	2
81	325171	WASHER, WAVE SPRING 1/4 PLAIN	1
82	026025	NUT,HEX, 5/16-18-UNC, CONELOCK	1
83	331920	CAB FRONT NOSE, ASSY	1
84	325735	SHIM, NOSE HINGE	2
85	1010996	ANGLE - MTG GAS STRUT	2
86	317021	GAS SPRING ASSEMBLY	2
87	353871	WIPER COVER & MTG PANEL	1
88	312700	WIPER MOTOR ASSEMBLY	1
89	354330	WINDSHIELD, M-CAB	1
90	E301876	GLASS - REAR	1
91	330817	WINDOW FRAME LH	1
92	E325332	AC KIT	1
93	331737	ACCESS PANEL A/C-HEATER FIBERGLASS	1
94	E354282	SUPPORT POST-SERVICE DOOR, WELDMENT	1
95	E324516	FLOORMAT REAR	1
96	353875	BUDDY SEAT INSTALLATION	1
97	E354310	PLATE-BENT, COVER ECU, WELDMENT	1
98	326011	PLATE, BENT, DOOR SEAL PROTECTOR	1
99	324564	ARM WIPER-WET	1
100	E317815	WELDMENT, C-HOLD (STEERING COLUMN)	1
101	E300769	CENTER BONDED MOUNT (RUBBER)	4
102	316120	BLADE - WIPER	1
103	E314475	PLATE MOUNTING - FOUR VALVE	1
104	044152	HORN 12V	1
105	890701094	EXTRUSION-WINDOW (.08330)	1
106	890701	EXTRUSION-WINDOW (.08330)	1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
107	326454	DUST COVER, RUBBER PLUG	1
108	324997	RESERVOIR WASHER BOTTLE 2L	1
109	E325022	PLATE, COVER	1
110	E301388	HANDLE	2
111	316872	STRIKER BOLT	1
112	306003	ADAPTOR KIT	1
113	E323444	PLATE, COVER - SPINDLE ACCESS	1
114	317285	TEETHERS ADJUSTABLE	2
115	E317283	SEAT BELT	1
116	E317817	PLATE-BENT, C-HOLD (STEERING COLUMN)	1
117	326989	LIGHTBAR ASSY, 2-1/2" - STD	1
118	325117	RETAINER, PANEL-PLASTIC	4
119	E324518	FLOORMAT KICK PANEL	1
120	E324676	FLOORMAT CORNER PATCH	1
121	324909	DECAL, WATER VALVE	1
122	325291	TRIM SEAL- FLEXIBLE 5/8 DIA	1
123	330203	ECU BOX ASSY M4C, ISB13	1
124	331739	SERVICE DOOR FIBERGLASS	1
125	E327242	LATCH, FLUSH- SERVICE DOOR	1
126	E314476	PLATE SPACER THREE BALL VALVE	1
127	E314477	BRACKET, MOUNT - THREE VALVE	1
128	324907	WATER VALVE ASSY- M3	1
129	E318687	SANDWICH MOUNT RUBBER 25X10A-1/4X20 CR55	4
130	325201	RECEPTACLE, 3 WAY	1
131	326556	COUPLER, 1/8 TUBING - NYLON	1
132	E324517	FLOORMAT, FRONT	1
133	E326420	SPACER, 1/8 PIPE X 0.34 LG	3
134	E353877	ANGLE, RECEIVER DRIER WELDMENT	1
135	327241	LATCH, FLUSH-ECU BOX	1
136	896922	TAPE-SEAL, 4" WIDE	1
137	325452	PEDAL & BRAKE INSTL	1
138	325859	HOSE ASSY-AC 5/16 ID X 18 CUT	1
139	325666	PUSHNUT, COVERED 3/16 SHAFT	7
140	896891	RUBBER-.25 X .75,CLOSED CELL	2
141	323610	COPPER GROUND TERMINAL 14POS	1
142	325857	HOSE ASSY-AC 5/16 ID X 46 CUT	1
143	329981	HOSE ASSY A/C 13/32 ID X 272LG	1



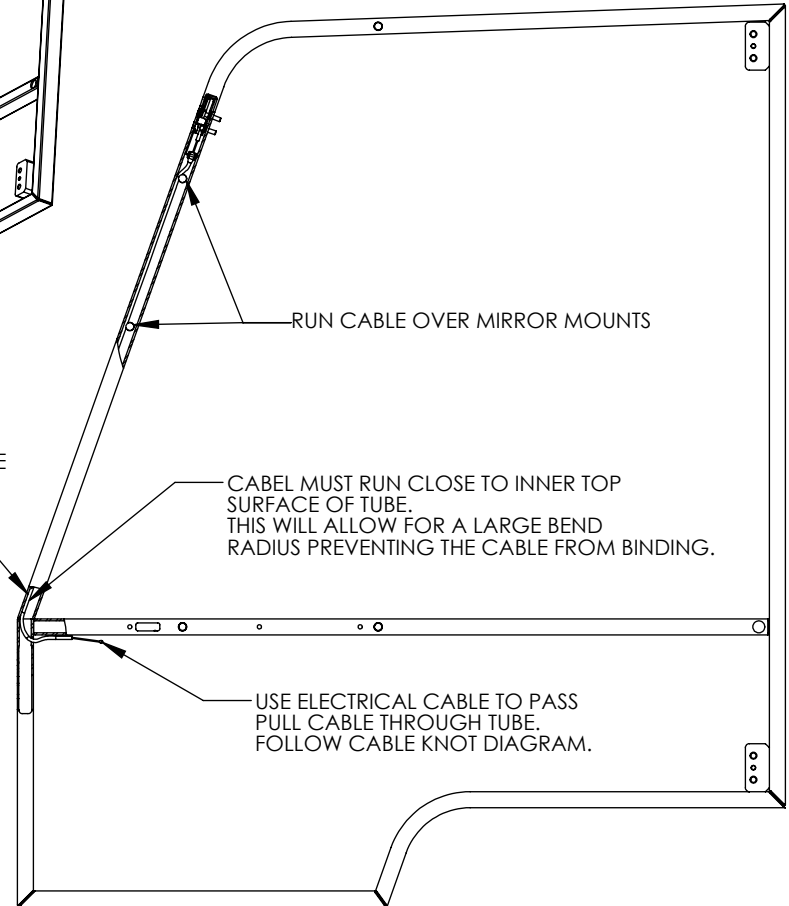
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
144	315820022	TRIM SEAL- FLEXIBLE 22.5" LG	2
145	E323652	GROUND BAR HOLDER COPPER	1
146	896853006	NON-SKID TAPE	2
147	331141	HINGE MOUNT, UPPER	2
148	331533	DOOR HINGE WLDMNT	2
149	331142	HINGE MOUNT, LOWER	2
150	323129		1
151	329726	DECAL, ECU-BOX, M4C	1
152	331358	UPHOLSTERY KIT-CAB INTERIOR	1
153	375314	BRACKET WLDMT - VISOR	2
154	356960	MIRROR MOUNT BRACKET LOWER LH	1
155	356961	MIRROR MOUNT BRACKET UPPER LH	1
156	357025	PLATE-BENT BOTTOM, FRONT LATCH	1
157	357043	PLATE-LATCH FRONT ADJ. WLDMT	1

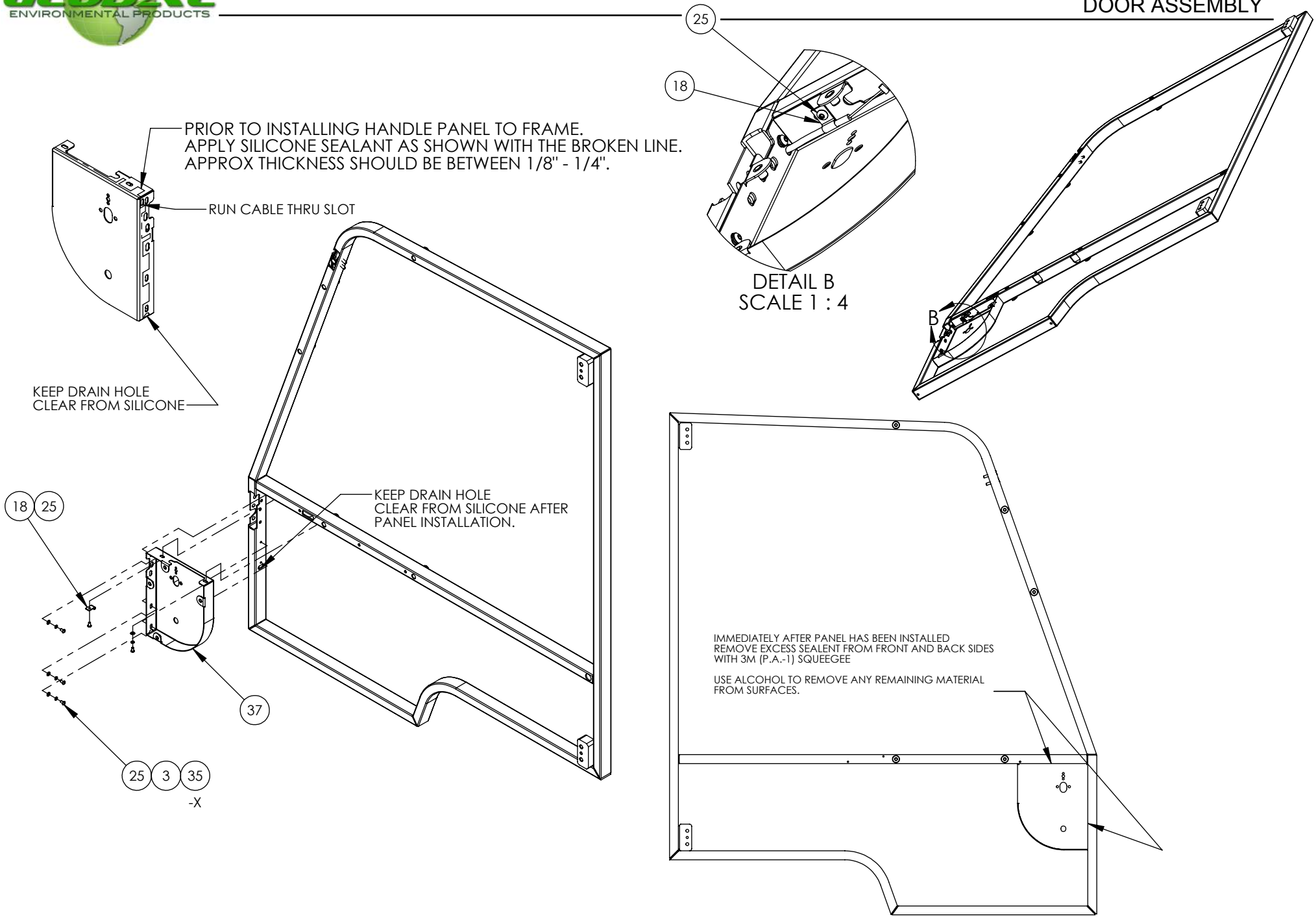
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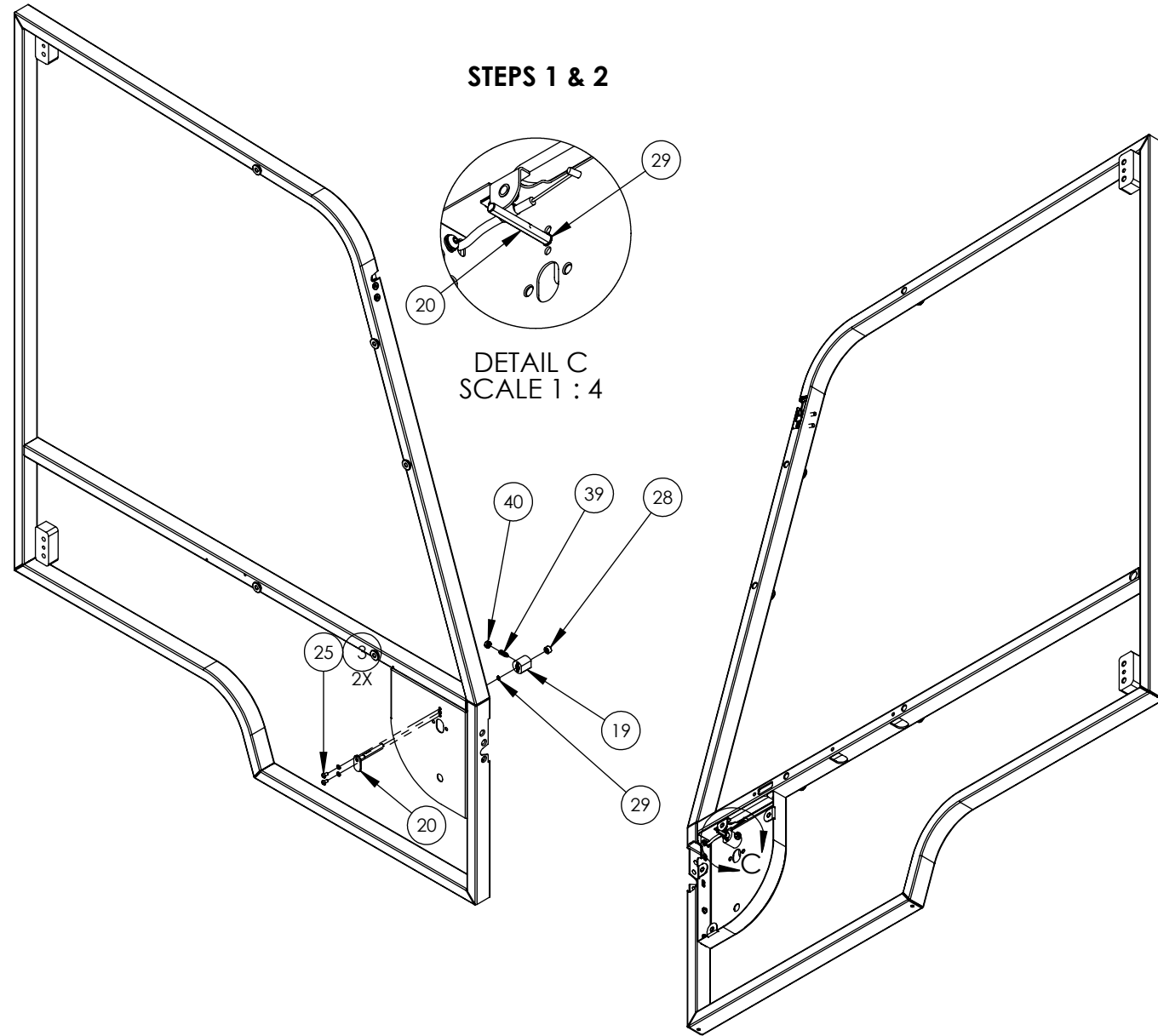
DETAIL A
SCALE 1 : 8

INNER TOP SURFACE
OF TUBE





STEPS 1 & 2



STEP 1:
INSERT ITEM 20 THROUGH PANEL HOLE AS INDICATED BY THE DRAWING.

STEP 2:
ATTCH ITEM 29 TO ITEM 20 GROVE. "DO NOT OVER EXTEND EXTERNAL RING"

STEP 3:
APPLY GREASE TO ITEM 20 SHAFT.

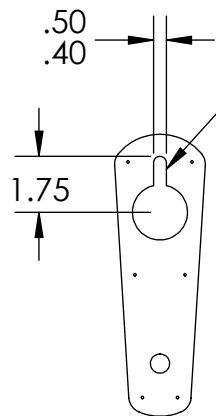
STEP 4:
INSERT ITEM 20 THROUGH ITEM 19.

STEP 5:
SECURE ITEM 19 USING ITEMS 3 AND 25 (SNUG TIGHT).

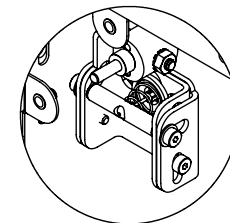
STEP 6:
CONFIRM THAT ITEM 20 IS FREE TO ROTATE.

STEP 7:
INSERT ITEM 39 INTO ITEM 19 WHILE TURNING ITEM 20 BETWEEN OPEN AND CLOSE POSITIONS. CONTINUE TO INSERT ITEM 39 UNTIL IT BOTTOMS OUT PREVENTING ITEM 20 FROM ROTATING. BACK OFF ITEM 39 ONE COMPLETE TURN. ITEM 20 SHOULD NOW BE FREE TO ROTATE. IF NOT, DO ANOTHER COMPLETE TURN OF ITEM 39.

STEP 8:
WITH ITEM 20 FREE TO ROTATE BETWEEN OPEN AND CLOSE POSITIONS. SECURE ITEM 39 USING ITEM 40 (SNUG TIGHT).

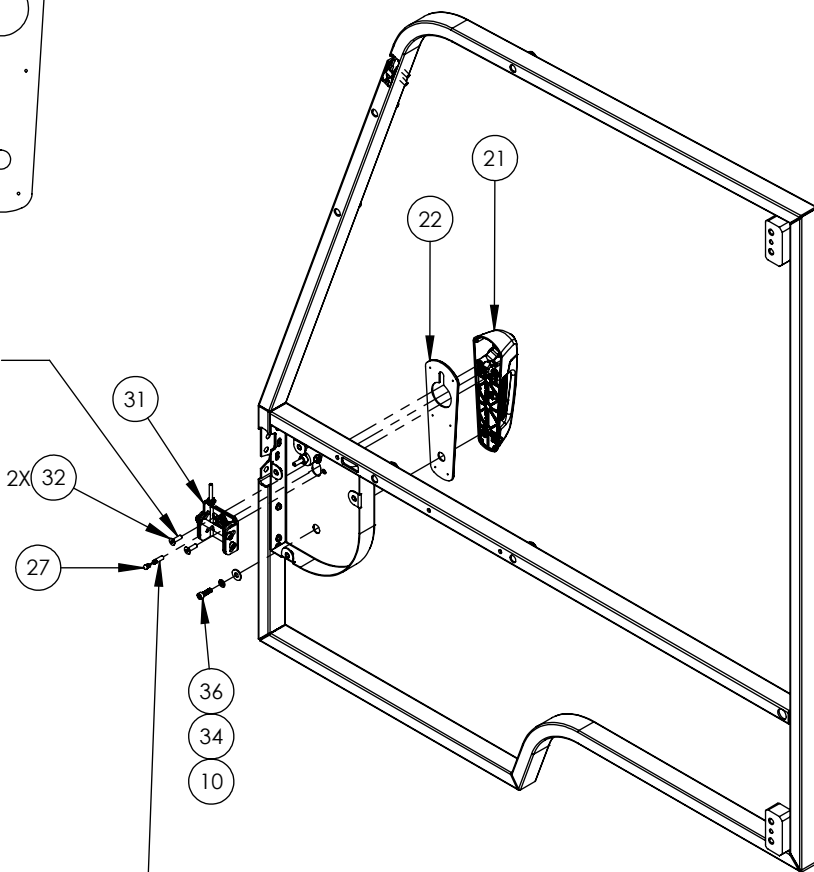


THIS SLOT NEEDS TO BE CUT OUT PRIOR TO ATTACHEING THE HANDLE.
SLOT CAN BE CUT OUT USING A RAZOR BLADE.
SLOT DOES NOT NEED TO HAVE A RADIUSSED TOP, A FLAT TOP IS OKAY.

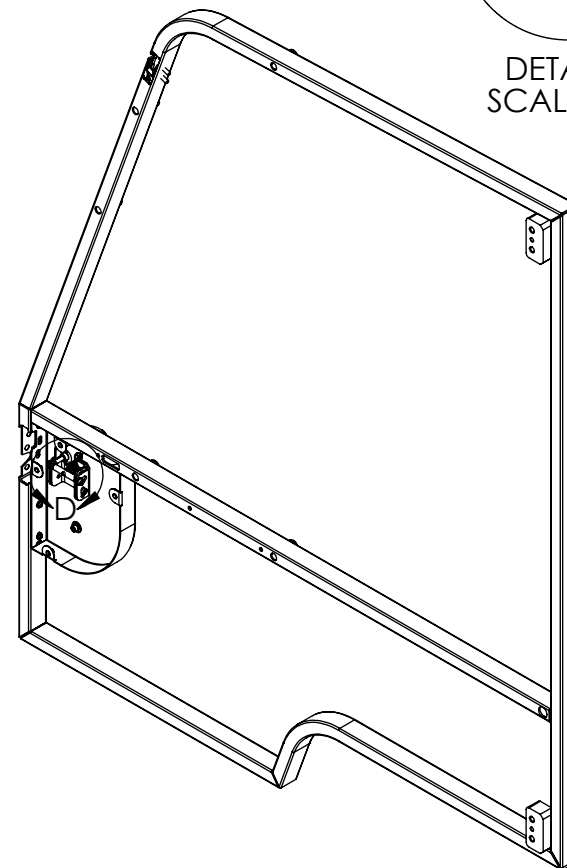


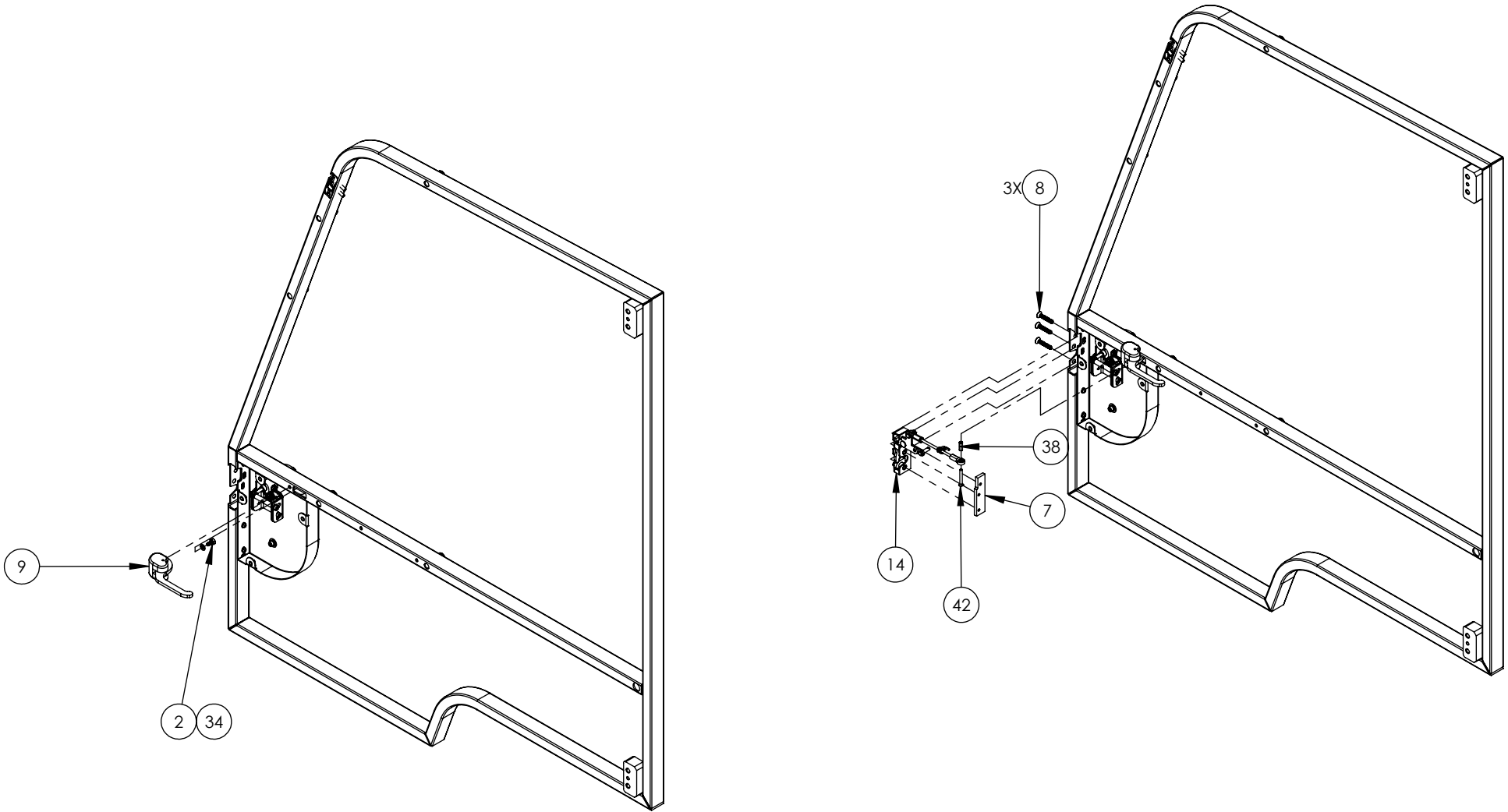
DETAIL D
SCALE 1 : 4

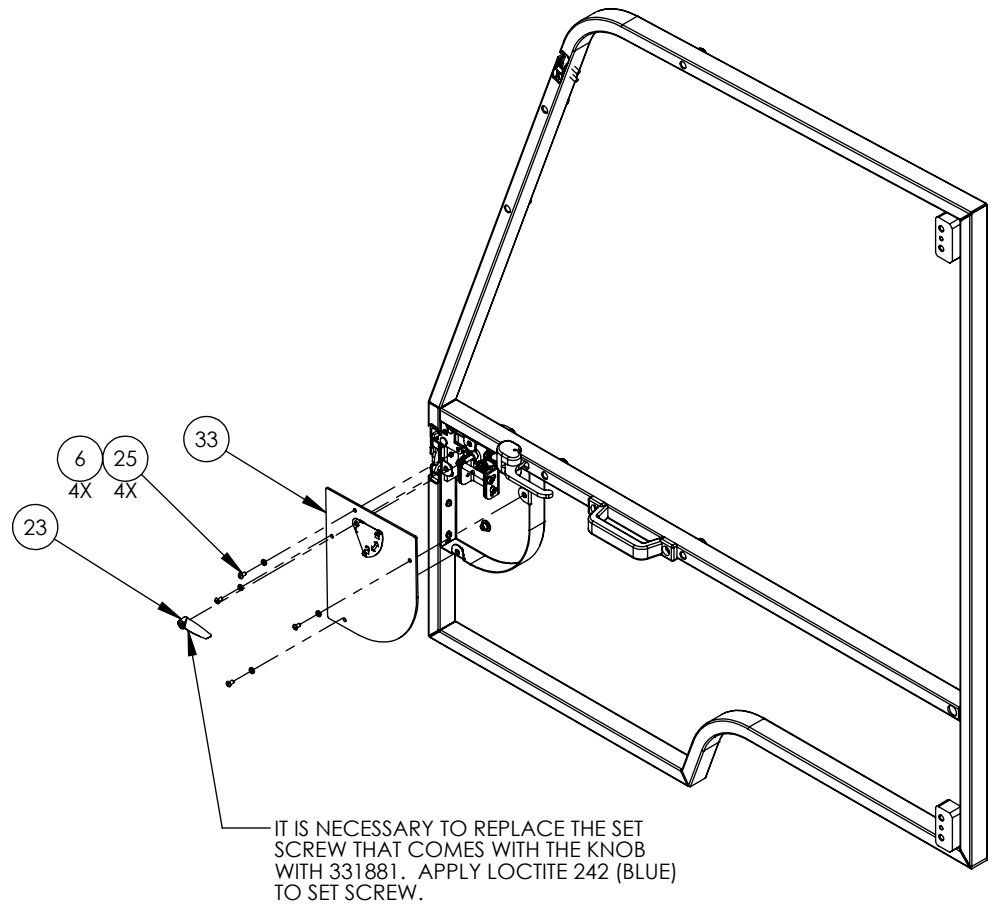
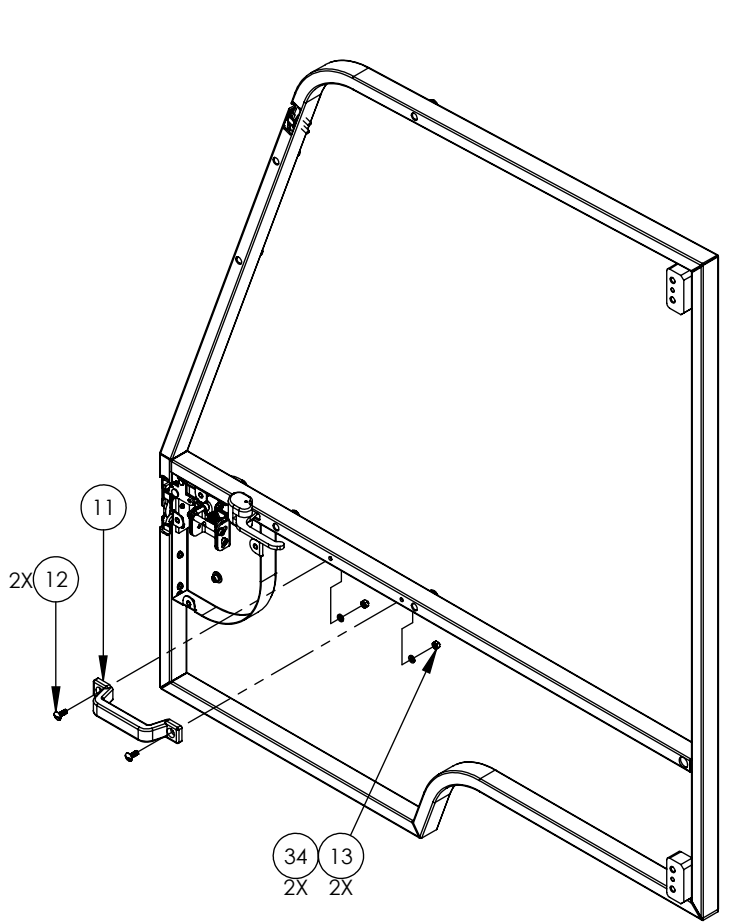
APPLY LOCTITE 242 TO THREAD

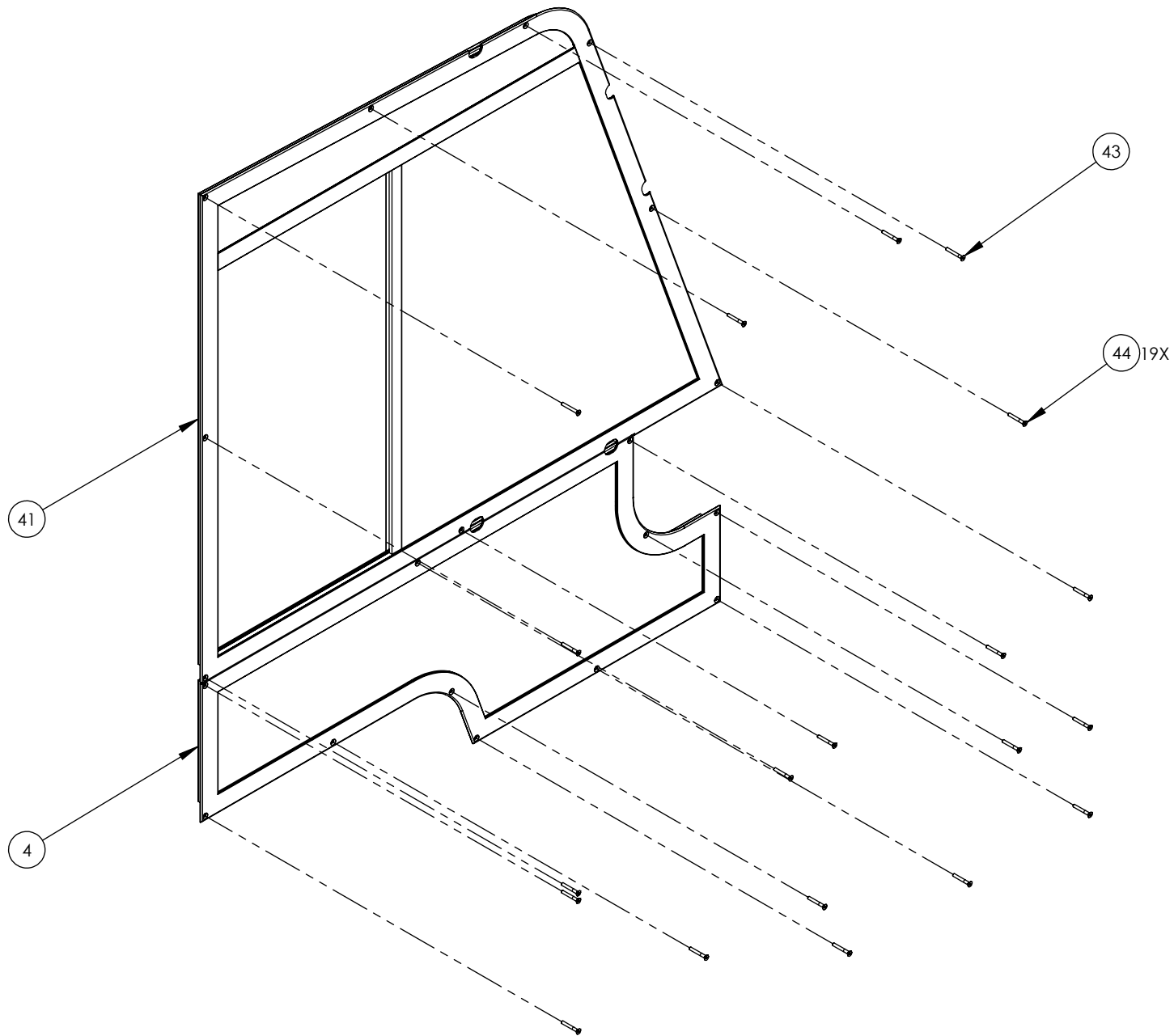


APPLY LOCTIE 242 TO THREAD
INSERT MICRO CABLE UNTIL HEAD IS BELOW SHAFT SURFACE
SEE DETAIL D







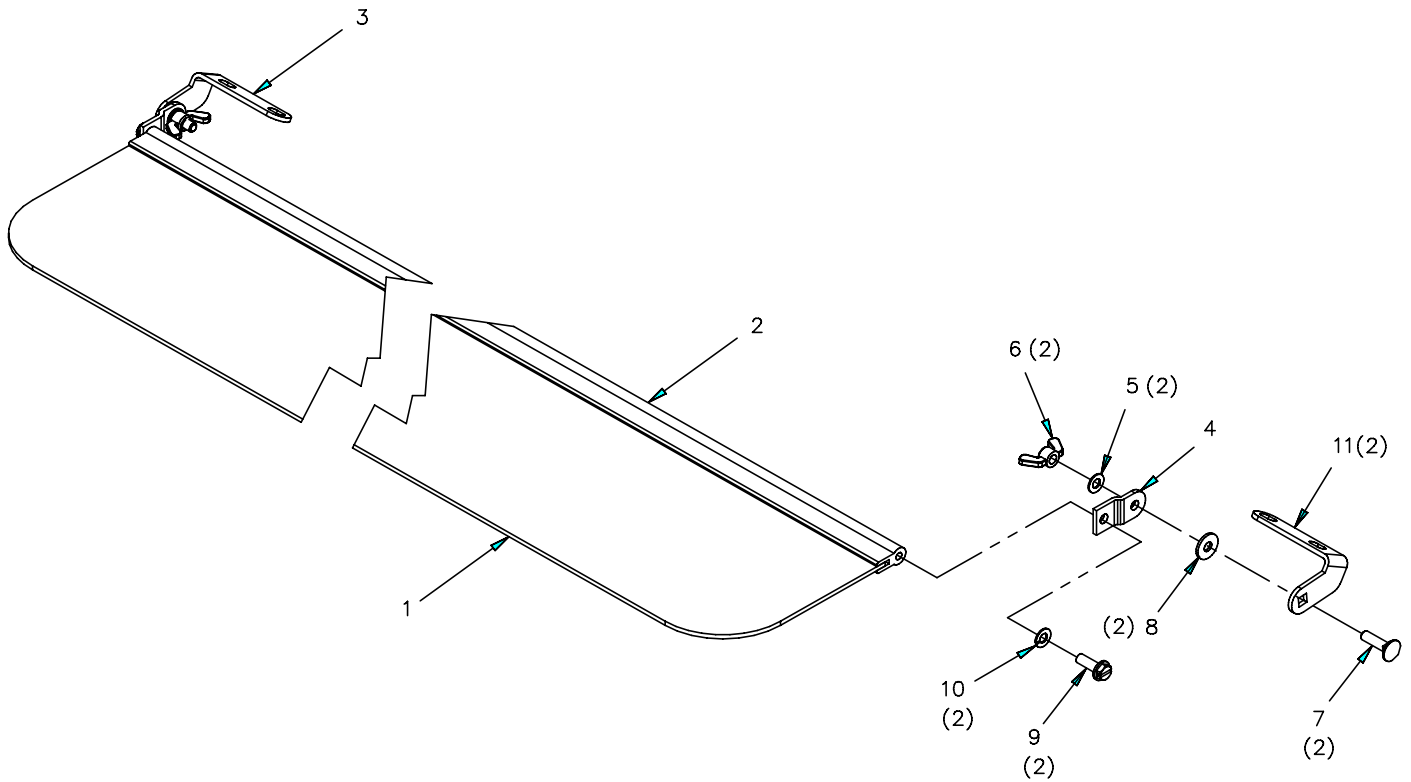


ITEM NO.	PART NUMBER	DESCRIPTION	QTY	REV
REF	331463	CAB DOOR ASSEMBLY W/PULL HNDL	1	REV 2
1	331531	DOOR FRAME WLDMNT W / SQUARE HINGES	1	-.6
2	031428	BOLT,HEX,HEAD,Ø 1/4-20-UNC x 1\2"LG	1	A.8+
3	035604	WASHER,SPRING LOCK,Ø #10	6	-.3
4	330818	CAB DOOR WINDOW_LOWER	1	-.2+
6	331124	NEOPRENE RUBBER WASHER	4	-.1+
7	331126	PLATE - LATCH	1	-.1+
8	331127	FLAT-HEAD SOCKET CAP SCREW, 1/4"-20 X 1.5" LG	3	-.1+
9	331523	INTERIOR DOOR HANDLE ASSEMBLY	1	-.1+
10	035605	WASHER,FLAT,Ø 1/4",USS,(3/4" O.D.)	1	-.9+
11	E318797	PULL HANDLE	1	-.1+
12	900114	SCREW,TRUSS HEAD,FLAT DRIVE,1/4-20--UNC X 3/4" LG.	2	-.1
13	030703	NUT, HEX, 1/4-20-UNC	2	-.9+
14	331525	DOOR LOCK LATCH ASSEMBLY	1	-.3
15	331975	PULL CABLE RETAINING PLATE	1	-.1+
16	331454	PULL CABLE	1	-.5+
17	331957	ROTARY LATCH, RH (MODIFIED)	1	-.1+
18	331537	LOOP CLAMP	1	-.1+
19	331484	LOCK SHAFT MOUNT	1	-.6
20	331480	LOCK SHAFT WLDMNT	1	-.5
21	331470	PULL HANDLE	1	-.1+
22	331496	RUBBER DOOR HANDLE GASKET	1	-.1+
23	331485	DOOR LOCK KNOB	1	-.1+
25	331352	SCREW,BUTTON HEAD,SOCKET CAP,#10-32-UNC X 3/4" LG	7	-.9+
26	331372	SCREW,SOCKET HEAD C'SUNK,#1/4-20-UNC x 3/4" LG.	2	-.9+
27	331483	MICRO CABLE	1	-.3
28	331622	SET SCREW SHAFT COLLAR	1	-.1+
29	330784	EXTERNAL RETAINING RING	1	-.1+
31	331722	DOOR RELEASE LATCH ASSEMBLY	1	-.2
32	331749	SCREW FLAT HEAD C'SUNK M6-1.00 x 20mm Lg.	2	-.1
33	331750	HANDLE PANEL COVER ASSEMBLY	1	-.1+
34	030643	WASHER,SPRING LOCK,Ø 1/4"	4	-.3
35	036645	WASHER,FLAT,Ø #10,SAE NARROW	4	-.9+
36	330779	BOLT,SOCKET HEAD CAP,M6 x 1.0 x 20mm LG.	1	-.5+
37	331784	HANDLE PANEL ASSEMBLY	1	-.1+
38	331897	HEX STANDOFF, #10-32, 3/4" LG	1	-.1+
39	331873	SPRING PLUNGER, 1/4"-20 X .75" LG	1	-.1+
40	900105	NUT, KEPS 1/4"-20	1	-.0
41	331769	CAB WINDOW DOOR	1	-.1+
42	331923	FLAT SOCKET HEAD CAP SCREW, #8-32 x 1 1\2" LG SS.	1	-.9+
43	331538	FLAT SOCKET HEAD CAP SCREW, #10-32 x 3/8" LG SS. BLACK OXIDE	1	-.9+
44	331144	FLAT SOCKET HEAD CAP SCREW, #10-32 x 1\2" LG SS. BLACK OXIDE	19	-.9+
45	331952	SCREW,BUTTON HEAD,SOCKET CAP,#10-32-UNC X 3/4" LG	4	-.9+



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CHAPTER 4



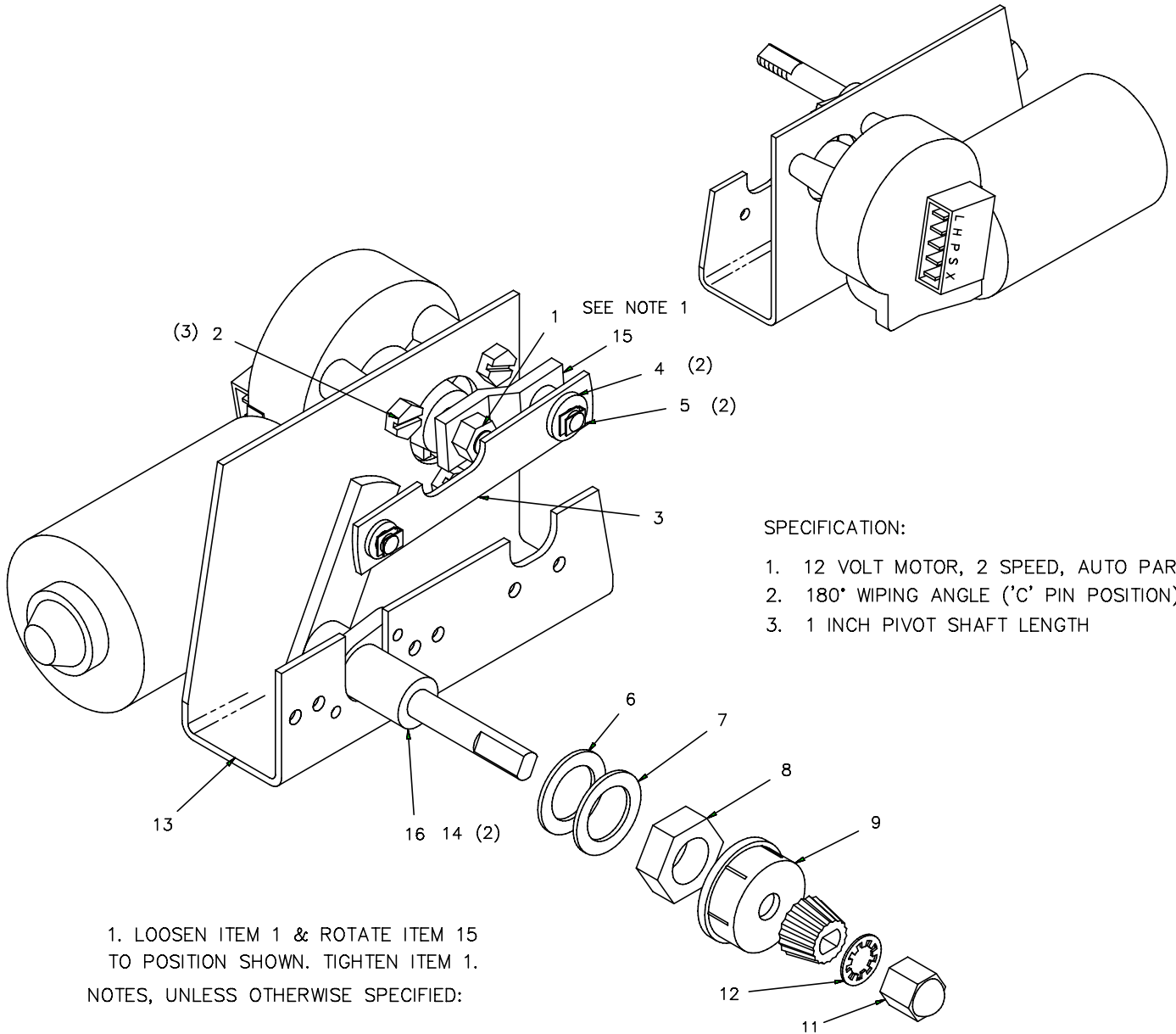
Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	321621	Sun Visor Assembly	A Ref	8	325748	Washer, Nylon	2
1	325741	Grey Plexiglass	1	9	325749	Scr, Self-tapping	2
2	325742	Aluminum Hinge	1	10	030643	Washer- Loc Split Pltd 1/4 Gr8	2
3	325743	Bracket, Anglt Mtg (Rh)	1	11	325750	Bracket, Angle Mtg (Lh)	1
4	325744	Bracket End Cap,	2				
5	325745	Washer, Nylon	2				
6	325746	Nut, Wing	2				
7	325747	Bolt, Carriage 1/4 X 1	2				





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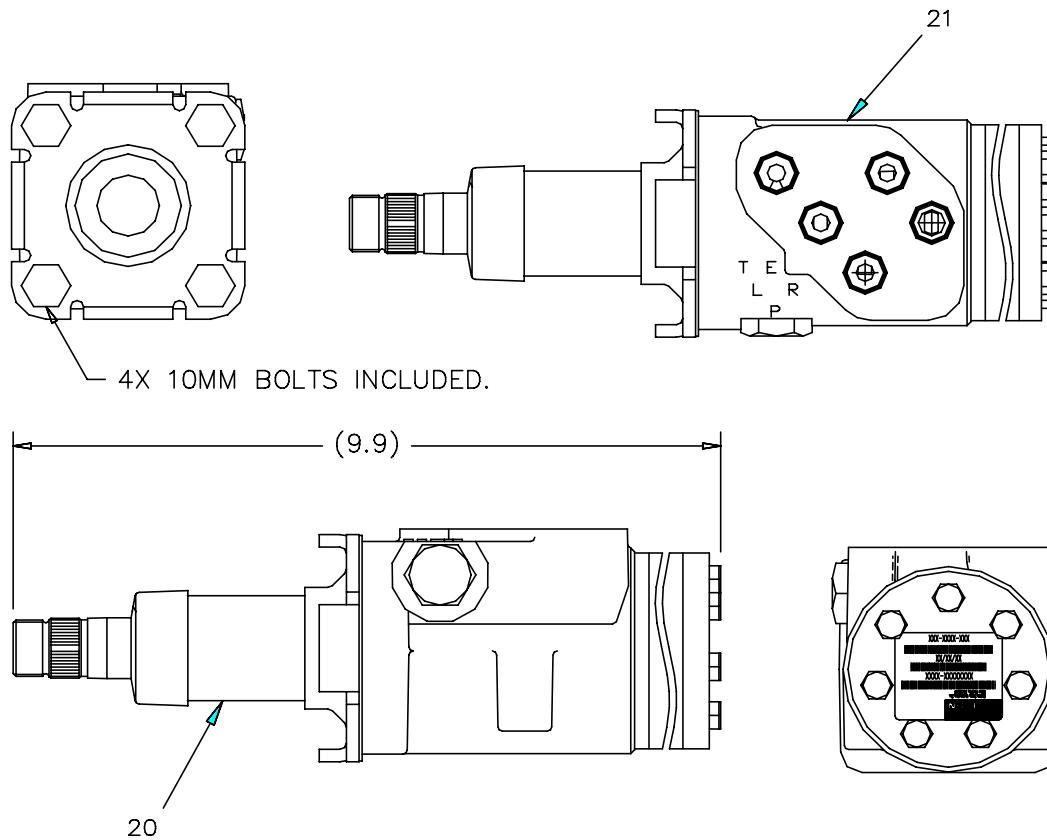


Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
–	312700	Windshield Wiper Motor Assy	C Ref	11	312711	Nut	1
1	312701	Nut	1	12	312712	Washer, Flat	1
2	312702	Screw, Mounting	3	13	312713	Bracket	1
3	305983	Connecting Link	1	14	312714	Screw	2
4	312704	Spacing Washer	2	15	312715	Drive Arm	1
5	312705	Spring Clip	2	16	314492	Pivot Shaft	1
6	312706	Washer, Rubber	1				
7	312707	Washer, Steel	1				
8	312708	Nut	1				
9	312709	Cap	1				
10	312710	Knurled Driver	1				





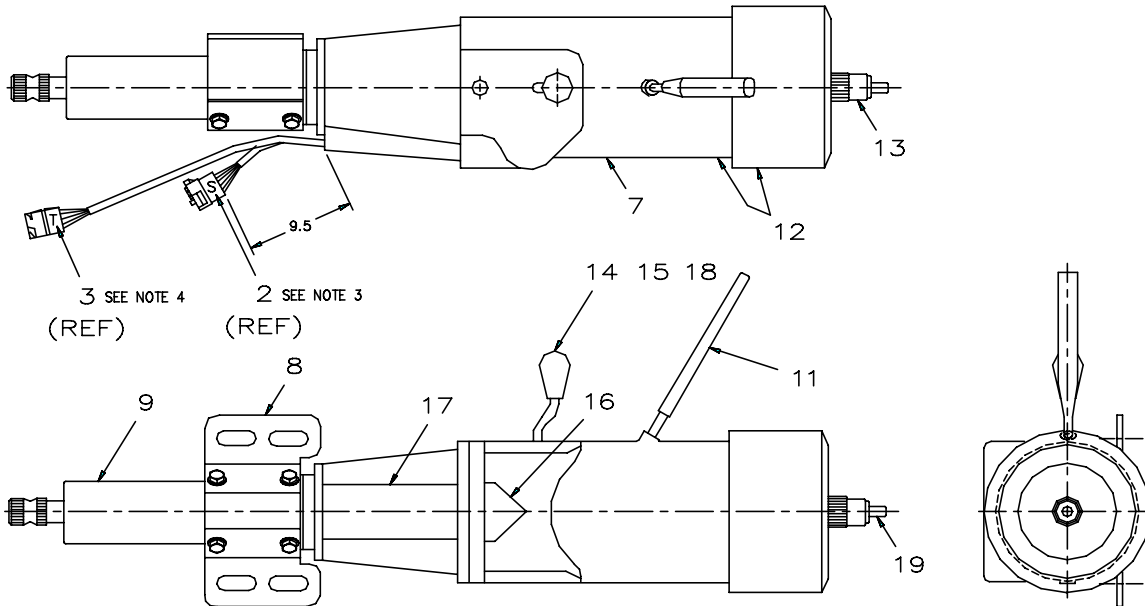
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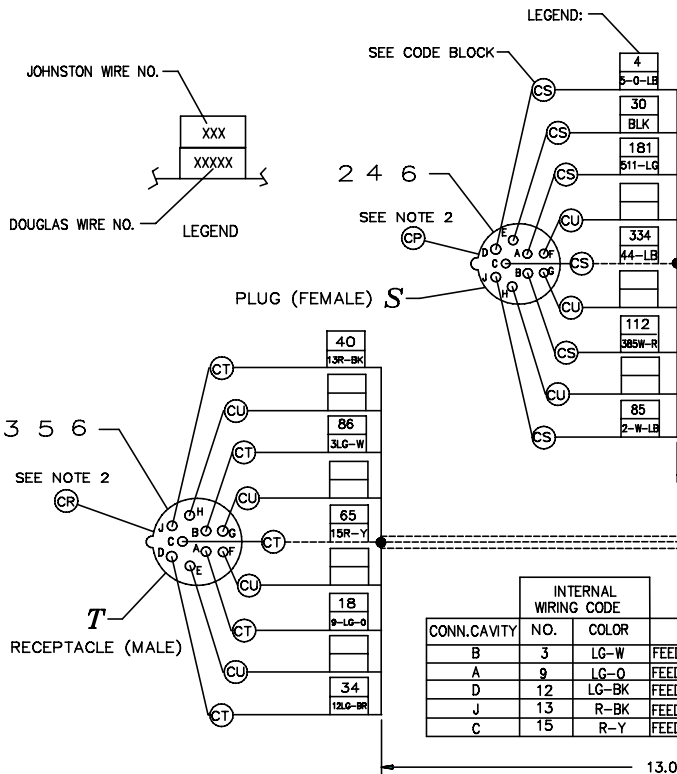
NOTES:

- 2.-HOUSINGS ARE SHOWN FROM TERMINAL INSERTION SIDE.
- 3.-IDENTIFY CONNECTOR WITH LETTER "S" USING A CONTRASTING COLOR.
- 4.-IDENTIFY CONNECTOR WITH LETTER "T" USING A CONTRASTING COLOR.

Steering Column Assembly



INTERNAL WIRING CODE			WIRE IDENTITY
CONN.CAVITY	NO.	COLOR	
J	2	W-LB	FEED TO RIGHT FRONT TURN LAMP
D	5	O-LB	FEED TO RIGHT REAR TURN/STOP LAMP
C	44	LB	FEED FROM TURN SIGNAL FLASHER
B	385	W-R	FEED FROM HAZARD WARNING FLASHER
A	511	LG	FEED FROM STOP LAMP SWITCH
E		BLK-Y	HORN WIRE




ELECTRICAL CODE DEFINITION		
CODE	PART NO.	DESCRIPTION
CS	A307897	SOCKET CONTACT (FEMALE)
CU	A307899	SEALING PLUG
CT	A307902	PIN CONTACT (MALE)
CR	B307901	HOUSING CONN. MALE, 9 PIN SEALED
CP	B307896	HOUSING CONN. FEMALE, 9 PIN SEALED

INTERNAL WIRING CODE			WIRE IDENTITY
CONN.CAVITY	NO.	COLOR	
B	3	LG-W	FEED TO LEFT FRONT TURN LAMP
A	9	LG-O	FEED TO LEFT REAR TURN/STOP LAMP
D	12	LG-BK	FEED TO HIGH BEAM HEADLAMPS
J	13	R-BK	FEED TO LOW BEAM HEADLAMPS
C	15	R-Y	FEED FROM HEADLAMP SWITCH



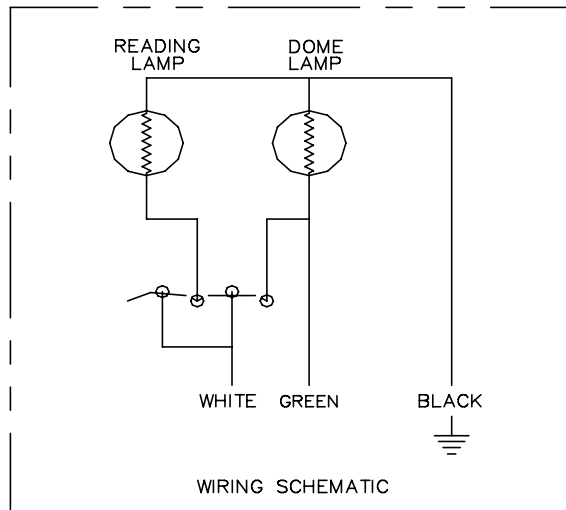
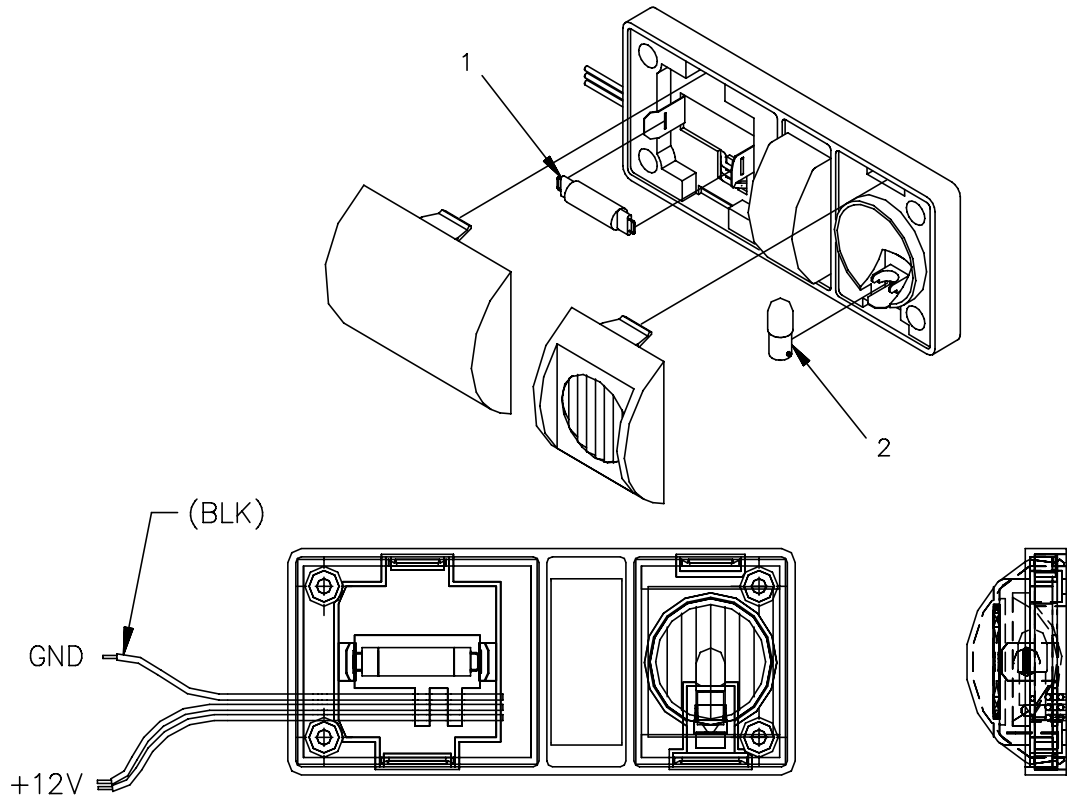
Steering Column Assembly

CHAPTER 4

Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	318395	Steering Column Assembly	B Ref		325329	Steering Valve & Shaft Assembly A	1
2	307896	Receptacle	1	20	325321	Steering Valve	1
3	307901	Plug	1	21	325328	Valve- Column	1
4	307897	Socket Contact	6				
5	307902	Pin Contact	5				
6	307899	Sealing Plug	7				
7	318393	Steering Column	1				
8	311709	Mounting Bracket	1				
9	381024	Service Assy	1				
10	381023	Kit-Tilt Bolt	1				
11	381022	Kit-Rod & Pawl	1				
12	381021	Kit-Gap Hider	1				
13	381020	Kit-Tilt Stop	1				
14	381019	Kit-Tilt Lever	1				
15	381018	Kit-Horn Brush	1				
16	381017	Kit-Upper/Lower Cover	1				
17	381016	Kit-Turn Signal	1				
18	381015	Kit-Wire Harness	1				
19	381014	Kit-"U" Joint	1				



NOTES
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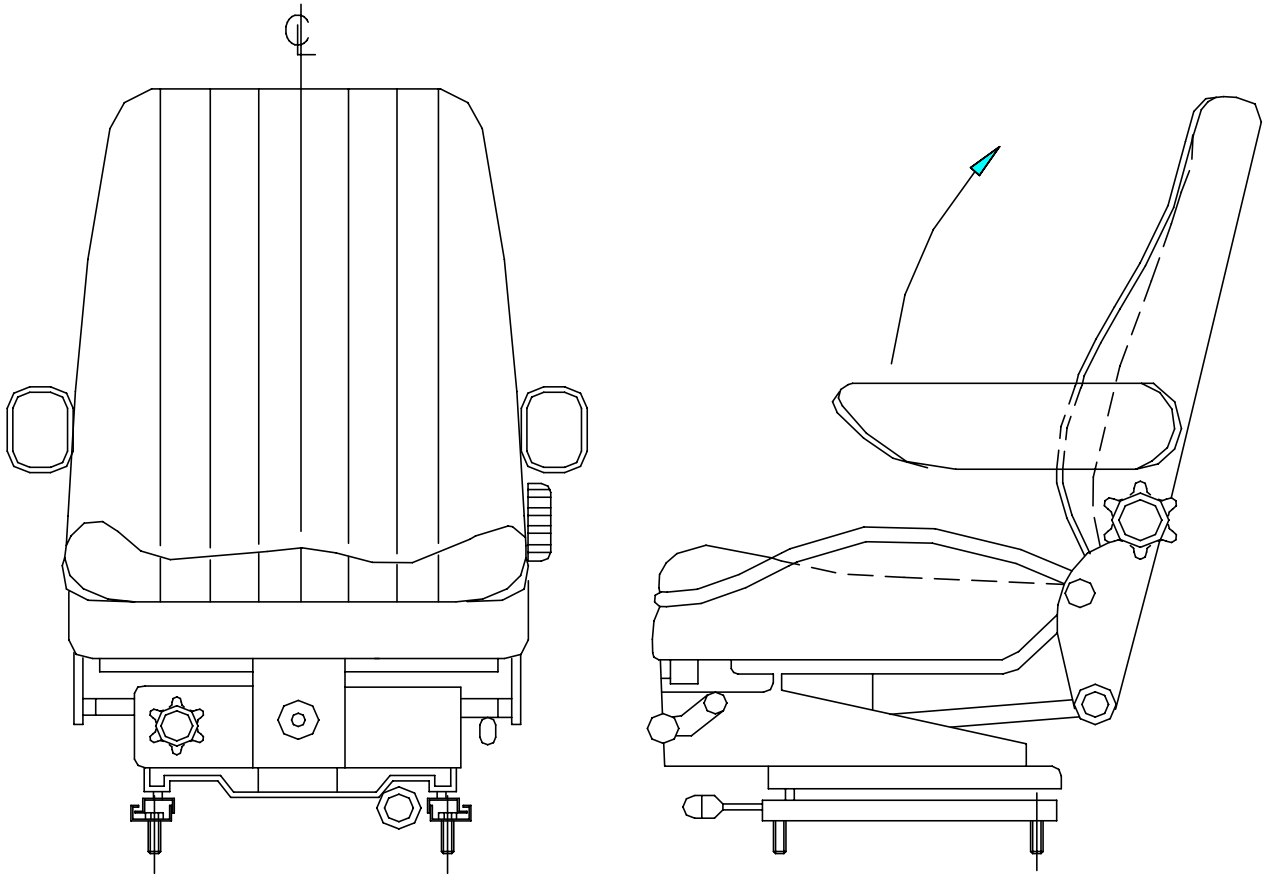


Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	317629	Dome Lamp Assembly	- Ref	1	317634	Bulb,Tube	0
	317729	Dome Lamp	1	2	317635	Bulb,Lamp	0
	601097	Terminal – Plug	1				
	316024	Connector – bullet, Fem 0.156	1				





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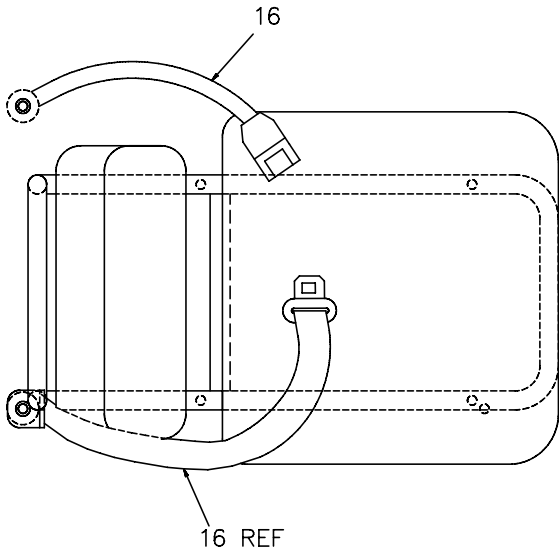


Item	Pt No.	Description	Qty				
-	318806	Driver Seat Assembly	B Ref	2	381190	Knob, Air Valve	- 0
1	381189	Compressor	- 0	3	381655	Valve- Air	A 0



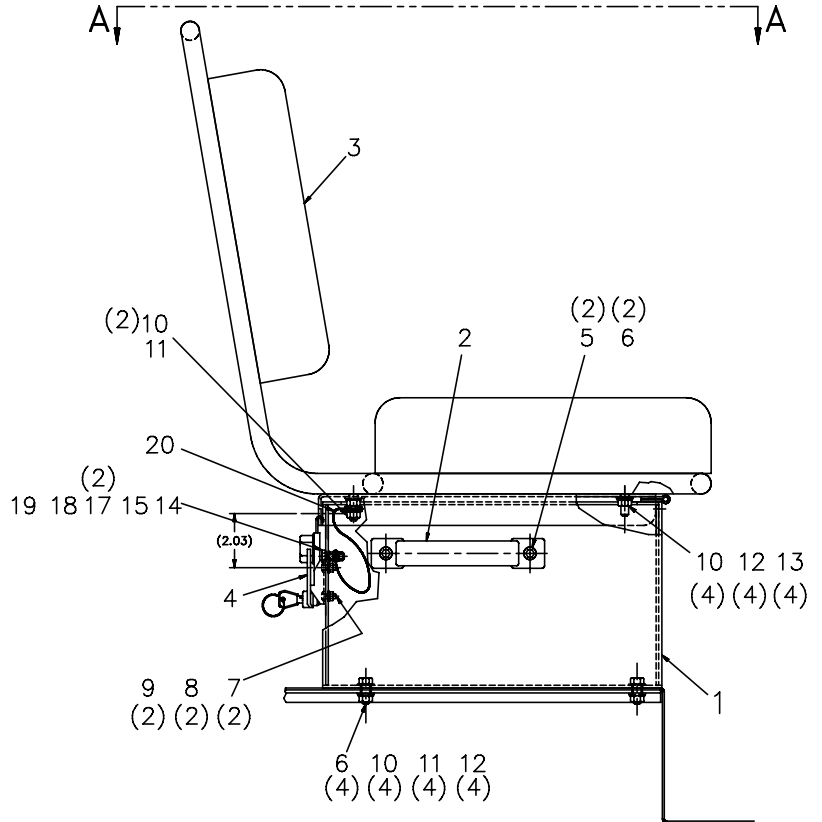


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16 REF
ANCOR POINTS ON REAR CAB SKIN
ARE NOT SHOWN.

VIEW A-A

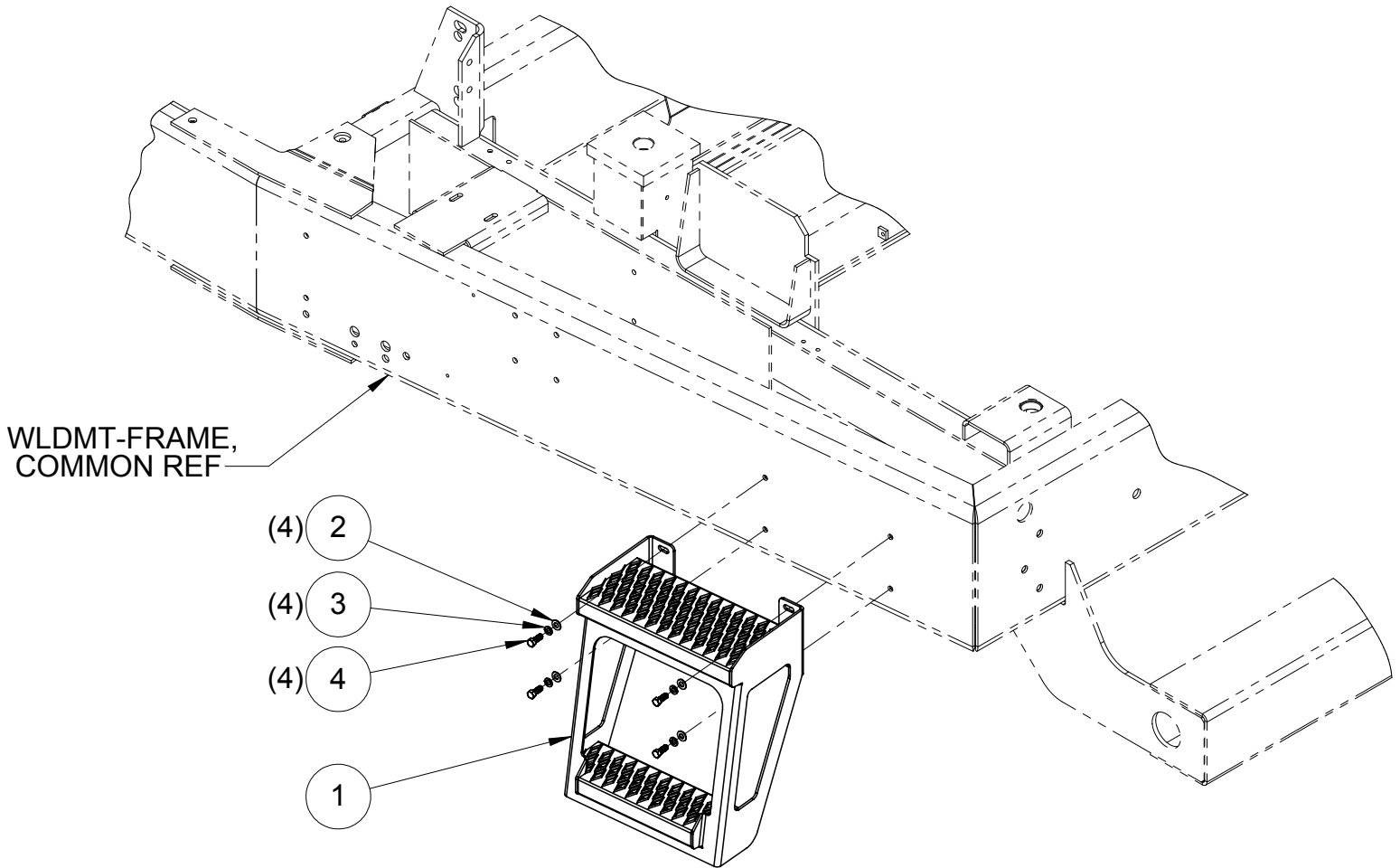


Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	353875	Buddy Seat Installation	A Ref	11	026025	Nut- Loc 5/16-18 (Conelock)	5
1	315775	Pedestal Wldmt-buddy Seat	E 1	12	030373	Washer- Loc Split Plt 5/16 Gr8	8
2	318797	Grip Handle-7"	0	13	030617	Nut- Plated 5/16-18	4
3	320903	Buddy Seat, Folding - '99	* 1	14	033145	Scr- Hx Hd Pltd 1/4-20x3/4 Gr8	1
4	315868	Latch-buddy Seat	B 1	15	900105	Nut-keps, Plated, 1/4-20	1
5	023559	Nut- Loc Nyl Insert Pl 5/16-18	2	16	322765	Seat Belt, 3 Point- Buddy	B 1
6	030483	Scr- Hxhd Pltd 5/16-18x3/4 Gr8	6	17	035605	Washer Flat Uss Plated 1/4	2
7	305121	Nut-lock,Nyl Insert,Pltd,10-24	2	18	030703	Nut Hex 1/4-20 Unc	1
8	036645	Washer Flat Sae Plated #10	2	19	030643	Washer- Loc Split Pltd 1/4 Gr8	A 1
9	006810	Scr- Rd Hd Slit Plt 10-24 X 5/8	2	20	319256	Cable Assy- Buddy Seat, Secure B	B 1
10	030489	Washer Flat Uss Plated 5/16	10				





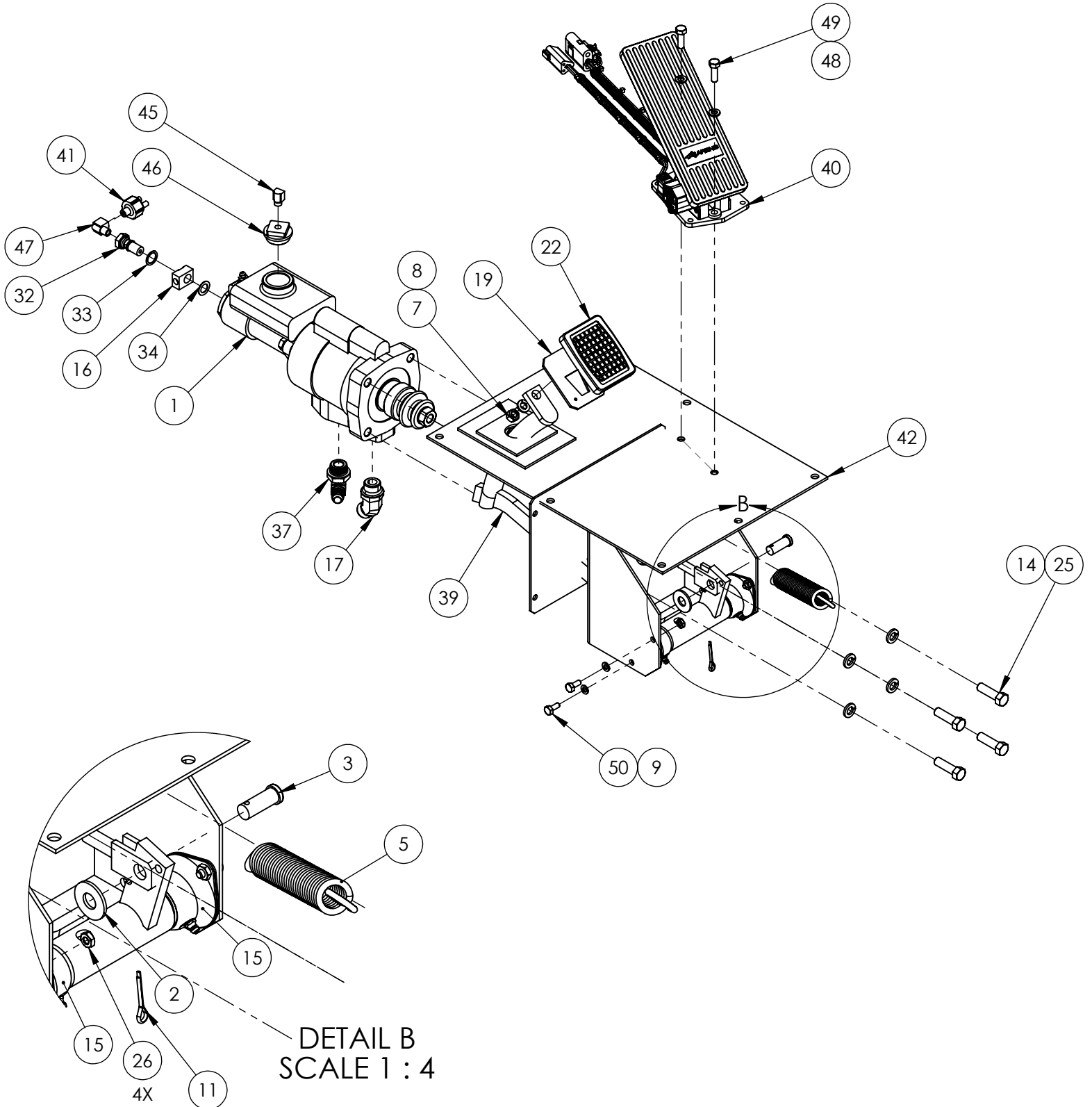
NOTES
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ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	330650	STEP, WELDMENT	1
2	038266	WASHER, FLAT 3/8", SAE (GR.8YZ)	4
3	030605	WASHER-LOCK,SPLIT,PLATED,3/8 GR8	4
4	034423	BOLT,HEX,HEAD,3/8-16-UNC x 1" LG. GR8	4



NOTES
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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
REF	247428	PEDAL & BRAKE INSTL, JD TIER3	REV 1
1	309893	MASTER CYLINDER ASS'Y	1
2	023687	WASHER FLAT SAE PLATED 1/2 GR8	1
3	024155	PIN CLEVIS, 1/2" DIA X 1-1/4" LG. PLAIN	1
5	601970	SPG EXT BROOM SIDE	1
7	030599	NUT- PLATED, 3/8-16 GR8	1
8	030605	WASHER- LOC,SPLIT,PLTD,3/8 GR8	1
9	030643	WASHER- LOC SPLIT PLTD 1/4 GR8	4
11	031495	COTTER PIN Ø1/8" X 1" LG	1
14	030499	WASHER- LOC,SPLIT,BLK,7/16 GR8	4
15	045111	BRG FLANGE MTG	2
16	070767	FITTING BRAKE	1
17	204257	FITTING,HYD,45°,MORB-10xMJIC-10	1
19	301342	RECTANGLE WLD	1
21	306275	CLEVIS WELDMENT	1
22	320330	PAD, BRAKE PEDAL	1
24	030400	NUT- JAM, PLATED, 1/2-20	1
25	031443	SCR-HX HD,PL,7/16-14X1-1/2 GR8	4
26	032317	NUT- JAM PLATED HEX 1/4-20	4
30	304219	SEAL	2
31	353206	SEAL- RUBBER 3.8X5.0	1
32	039125	BOLT FTG OUTLET	1
33	039126	GASKET BOLT	1
34	039128	GASKET FTG	1
37	301028	FITTING,HYD,90°,MJIC-06 x MORB-10	1
39	316870	BRAKE PEDAL WLDMNT	1
40	329833	ACCELERATOR PEDAL	1
41	030573	SWITCH HYD.	1
42	E247430	MOUNTING PLATE, MC & PEDAL, JD TIER3	1
43	318057	PLATE - COVER	1
45	210880	ELBOW 90 DEG.	1
46	325005	CAP FILL- MASTER CYLINDER	1
47	325003	STREET ELBOW,MP-FP90-2-2 BRASS	1
48	030373	WASHER- LOC SPLIT PLT 5/16 GR8	2
49	031433	SCR- HX HD PLTD 5/16-18X1 GR8	2
50	026205	SCR- HX HD PLT 1/4-20 X 5/8	4

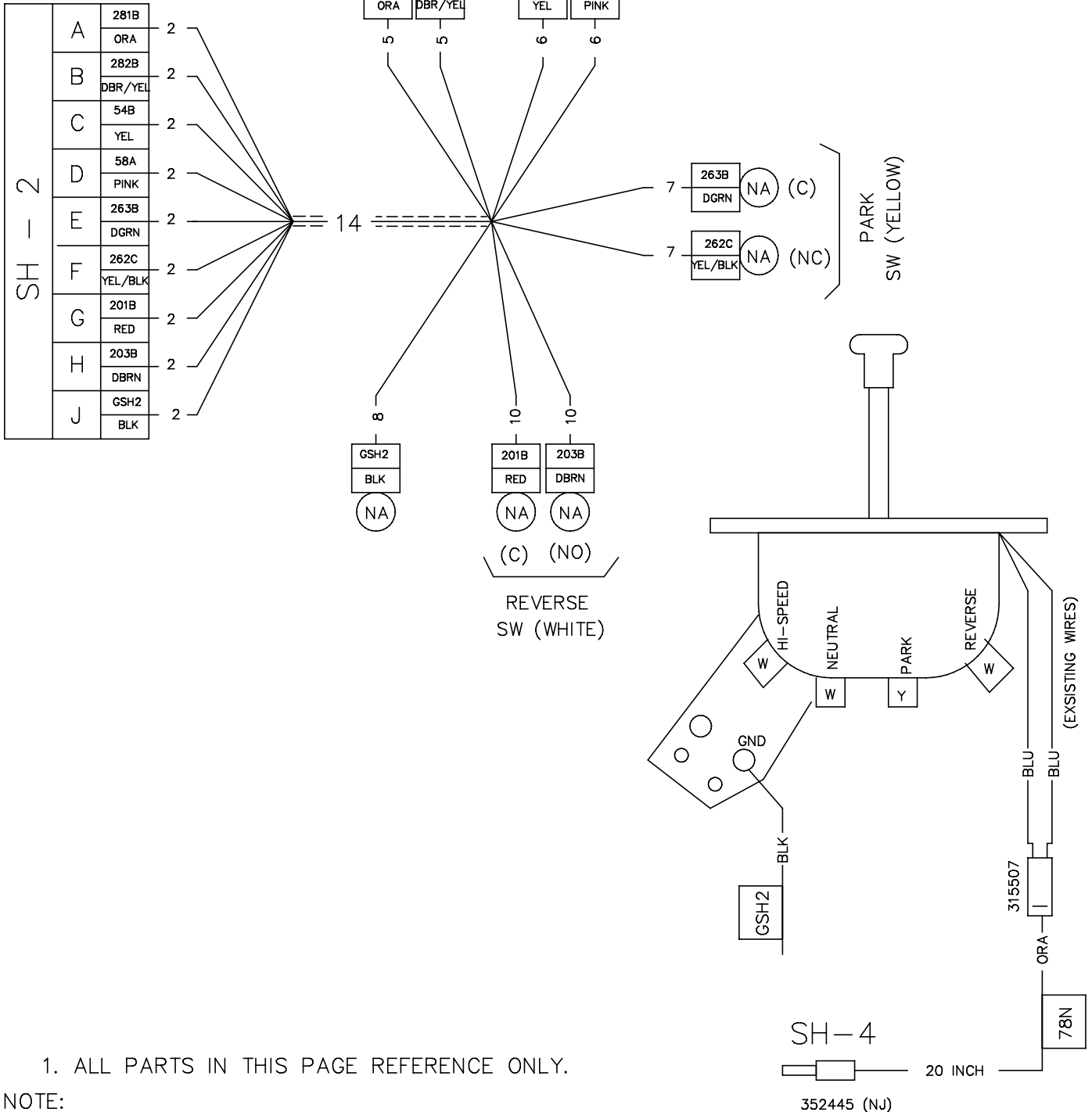


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CHAPTER 4

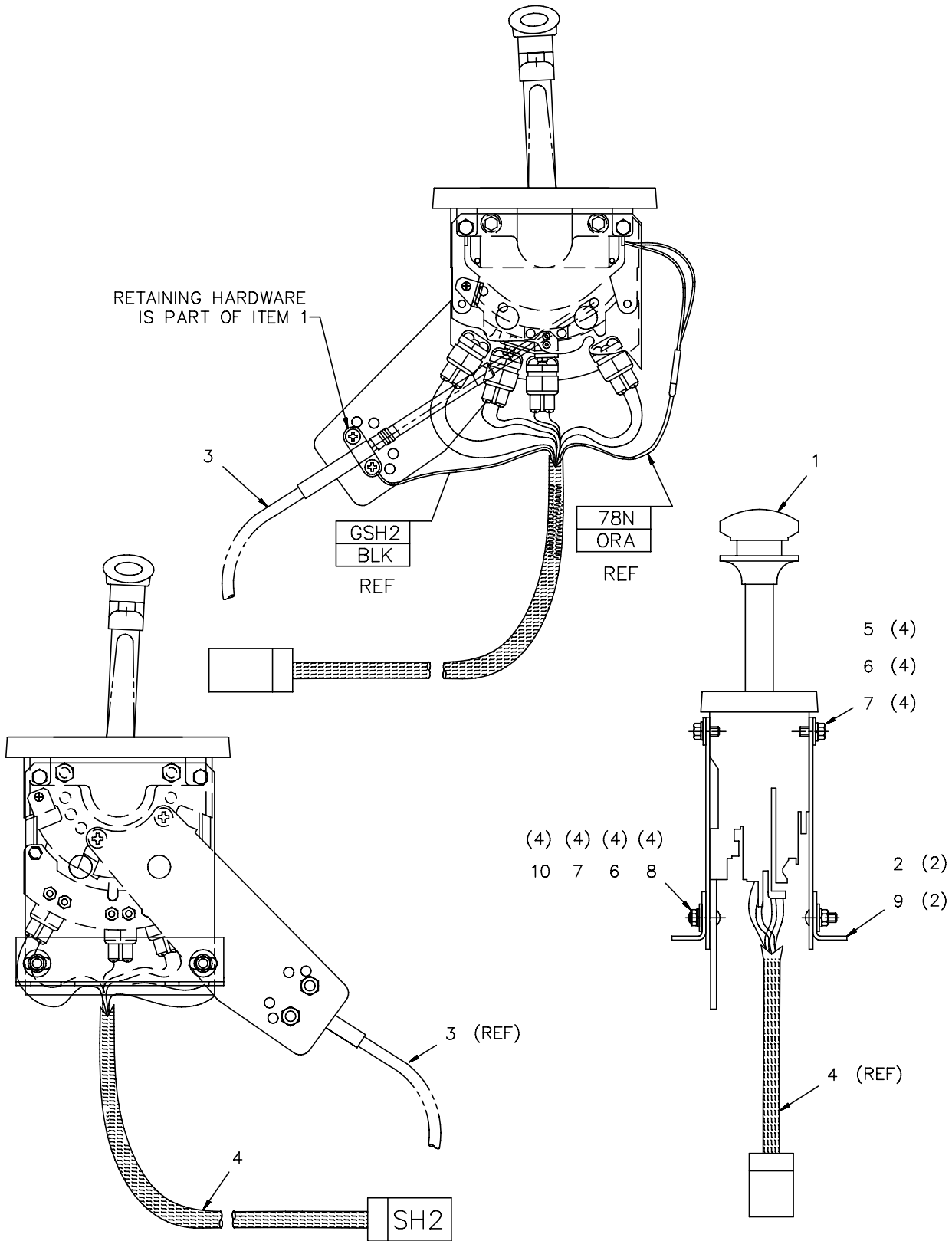
REF ONLY

PLUG : 307901
PIN'S : 307902



1. ALL PARTS IN THIS PAGE REFERENCE ONLY.

NOTE:





Mechanical Shifter Assembly

CHAPTER 4

Item	Pt No.	Description	Qty
-	324640	Mechanical Shifter Assy	B Ref
1	323833	Shifter Lh Mt. Rwk W/O Harness	1
2	324645	Side-Shifter, Angle	2
3	320849	Cable Assy-Red Jacket Supreme	1
4	323663	Harness "Shifter"	1
5	031428	Scr- Hx Hd Pltd 1/4-20x1/2 Gr8	4
6	035605	Washer Flat Uss Plated 1/4	8
7	030643	Washer- Loc Split Pltd 1/4 Gr8	8
8	603169	Bolt-Carr-1/4-20 X 3/4 Pltd	4
9	324644	Side-Shifter, Plate	2
10	030703	Nut Hex 1/4-20 Unc	4

Item	Pt No.	Description	Qty
------	--------	-------------	-----



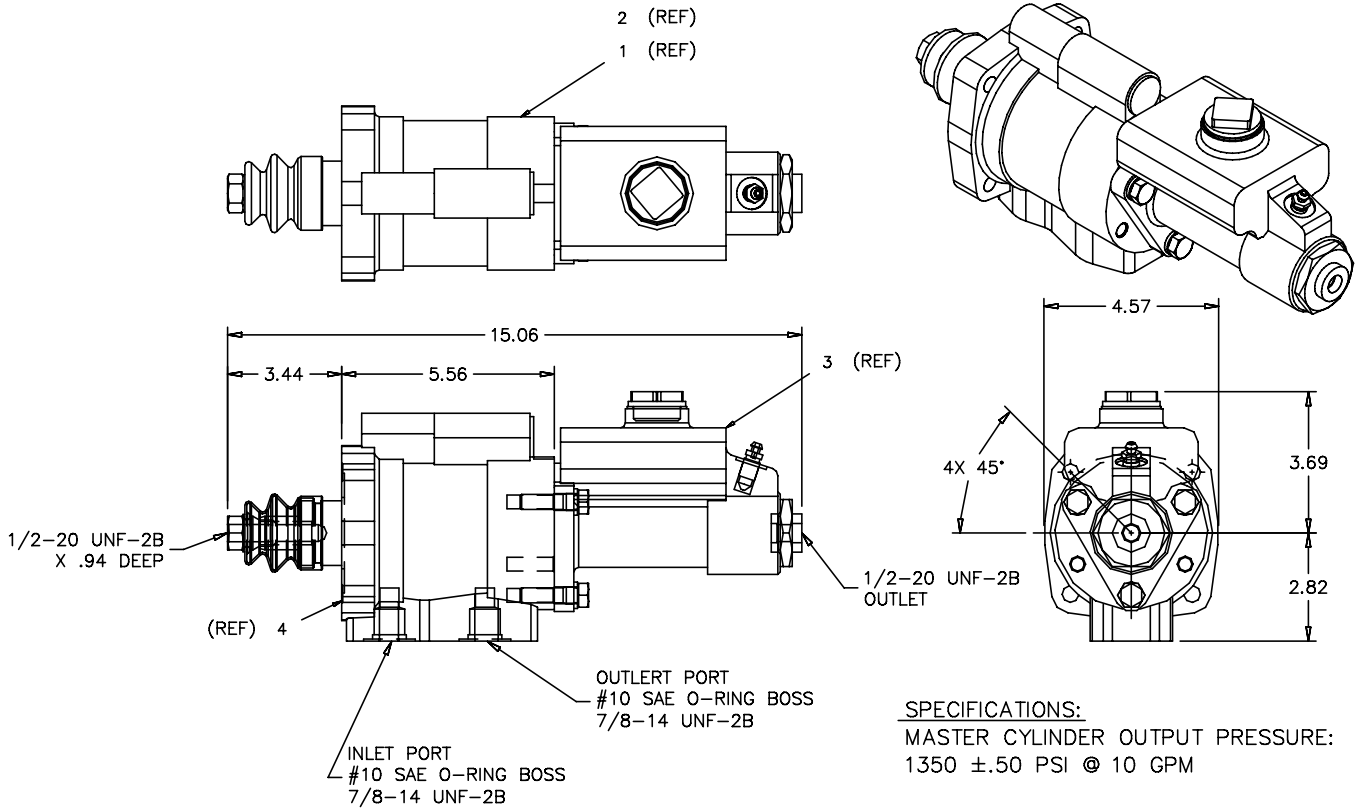


NOTES
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Master Cylinder Assembly

CHAPTER 4



- 3. BOOSTER SECTION FOR USE WITH MINERAL BASE HYDROLIC OIL ONLY.
- 2. MASTER CYL SECTION FOR USE WITH DOT 3 OR 4 BRAKE FLUID ONLY.
- 1. ALL DIMENSIONS ARE REF.

NOTES, UNLESS OTHERWISE SPECIFIED:

SPECIFICATIONS:
 MASTER CYLINDER OUTPUT PRESSURE:
 1350 ±.50 PSI @ 10 GPM
 RELIEF VALVE PRESSURE:
 240 ±.010 PSI @ 10 GPM
 INPUT FORCE (POWER) APPROX:
 203 LBS. @ 1350 PSI
 176 LBS. @ 1000 PSI
 138 LBS. @ 500 PSI
 FLUID DISPLACEMENT:
 1.67 CU. IN. (MAX)
 PUSH ROD TRAVEL:
 1.62 IN. (MAX)

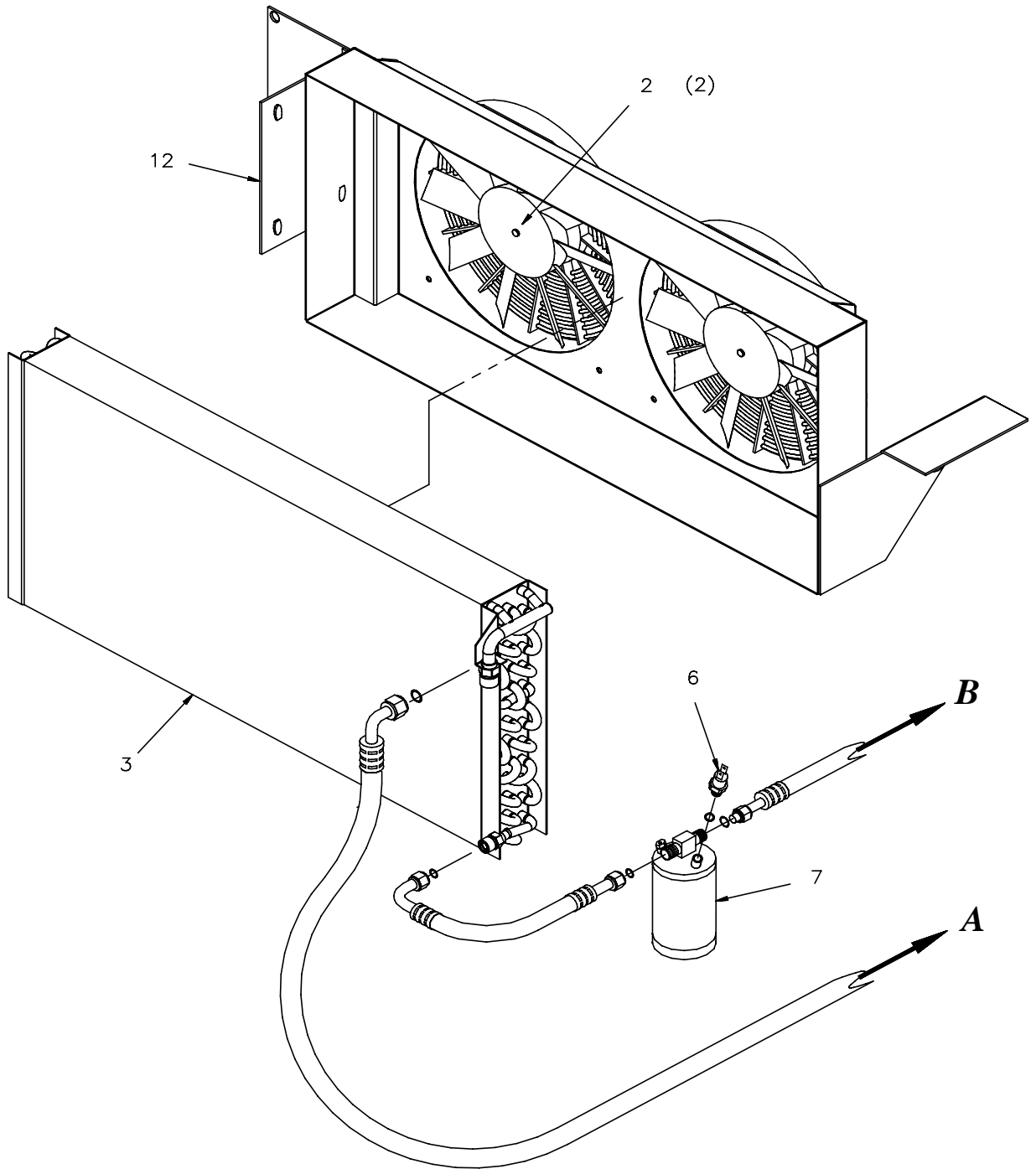
Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	309893	Master Cylinder Assembly	D Ref				
1	310386	Kit – Master Cylinder Repair	0				
2	307008	Kit–power Assist	0				
3	381193	Master Cylinder	0				
4	381194	Power Assist Section	0				





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CHAPTER 4



2. FOR HOSE P/N SEE M-CAB ASSEMBLY.

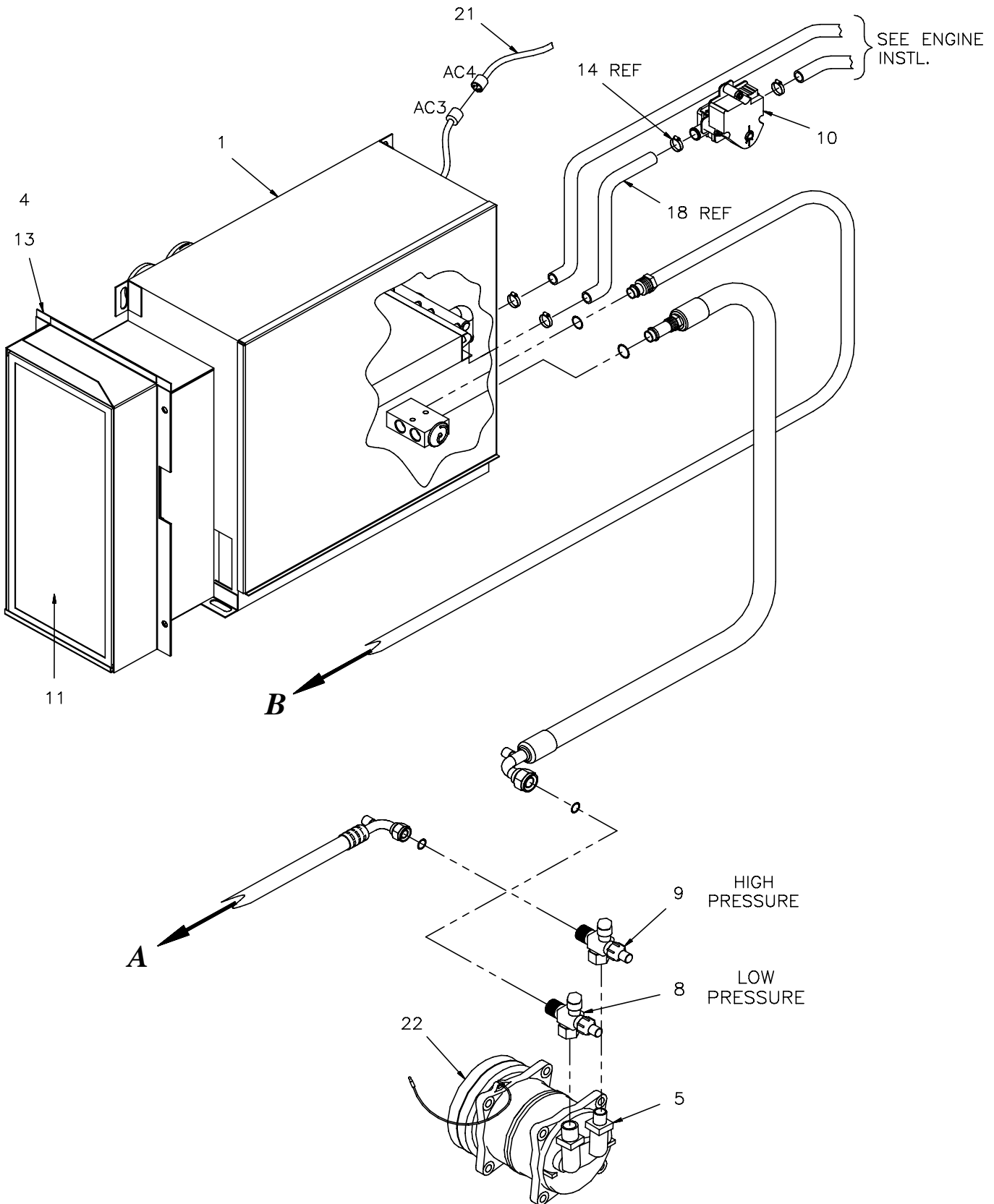
1. USE 4 LBS OF R-134A REFRIGERANT.

NOTES, UNLESS OTHERWISE SPECIFIED

A/C & Heater Kit Installation



CHAPTER 4





A/C & Heater Kit Installation

CHAPTER 4

Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	325332	A/C & Heater Kit Installation	*D Ref	12	381932	Condenser Unit W/Fan, 12v	1
1	381961	Heater/Evaporator Housing Assy	1	13	381933	Actuator, Air Distrib Door	1
2	381959	Fan, Condenser, 12V	2	14	*353689	Clamp,Silicone,Hose,Size 8	0
3	381960	Coil Assy, Condenser	1	18	896601006	Hose-Silicone 5/8 Id X 006 Lg	0
4	381934	Air Filter Housing W/Actuator	1	20	381935	Control Panel, A/C-Heater	1
6	381951	Switch Pressure, Binary	1				
7	381950	Receiver/Drier	1	21	324325	MCC A/C Harness	1
8	381949	Service Fitting, Suction	1				
9	381948	Service Fitting, Discharge	1				
10	382266	Valve,Water-Motorized	1				
11	381953	Air Filter A/C, Mobile Air	1				





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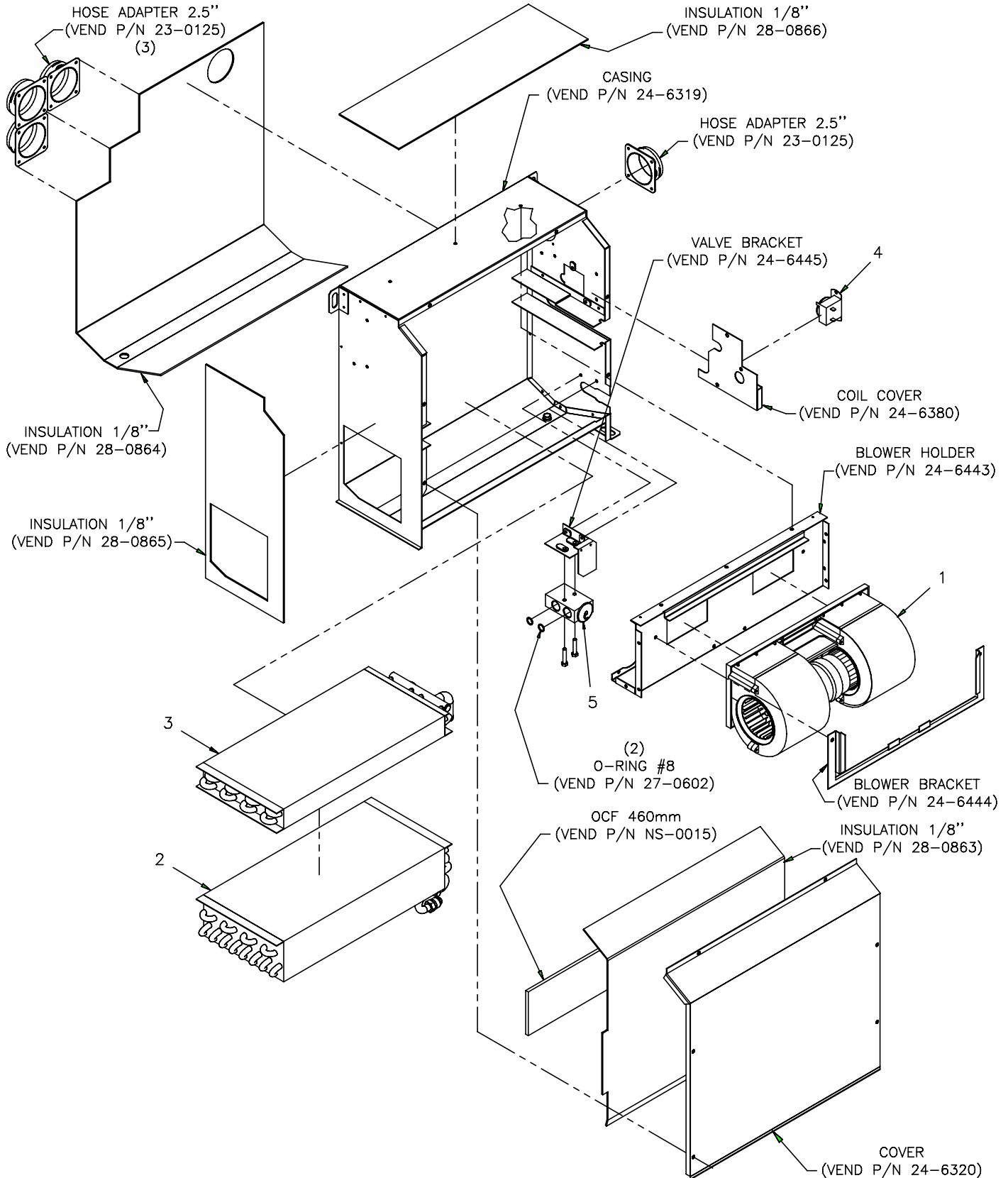


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Evaporator Housing Assembly



CHAPTER 4





Evaporator Housing Assembly

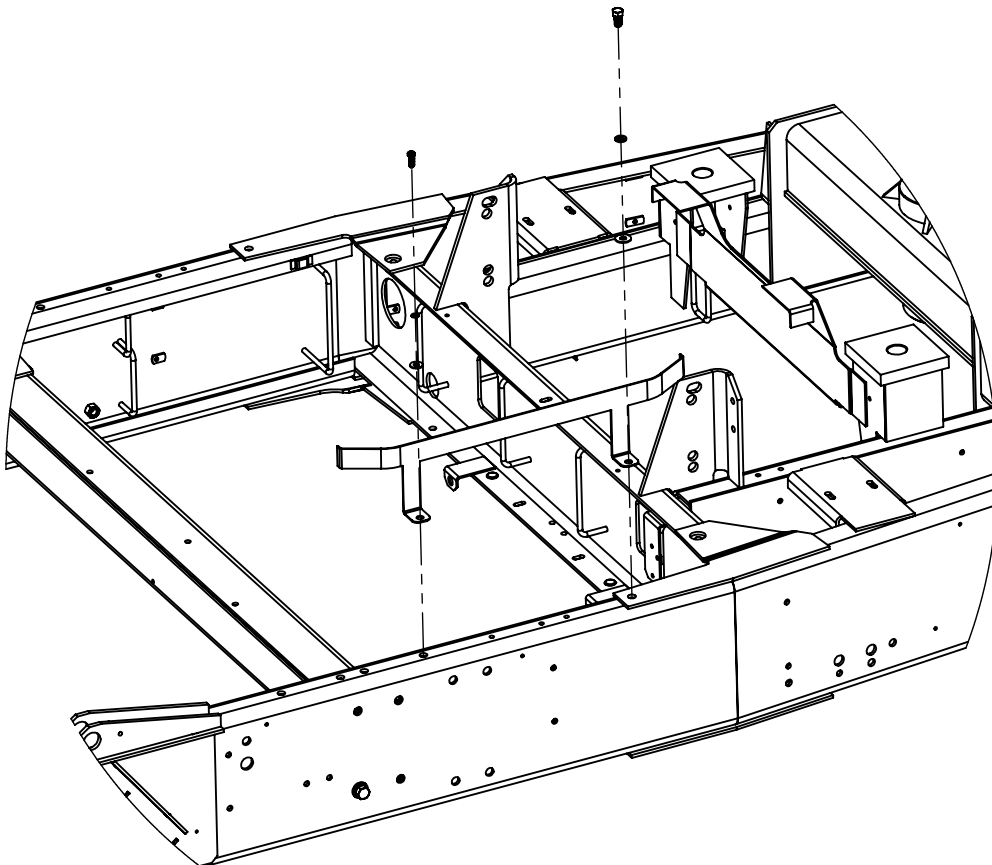
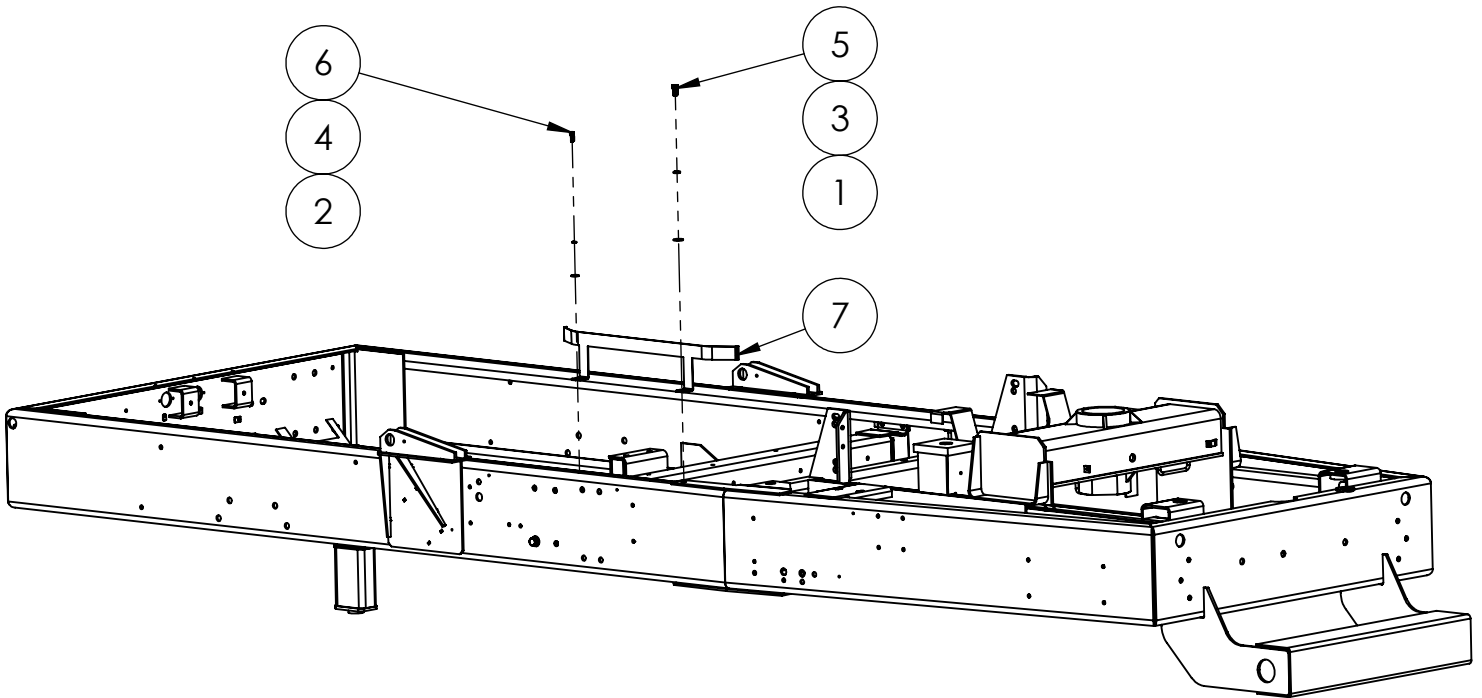
CHAPTER 4

<u>Item</u>	<u>Pt No.</u>	<u>Description</u>	<u>Qty</u>
-	381961	Evaporator Housing Assembly	A Ref
1	381958	Blower, 12v	1
2	381957	Coil Assy, Evaporator	1
3	381956	Coil Assy, Heater	1
4	381954	Thermostat	1
5	381955	Valve, Block-expansion	1





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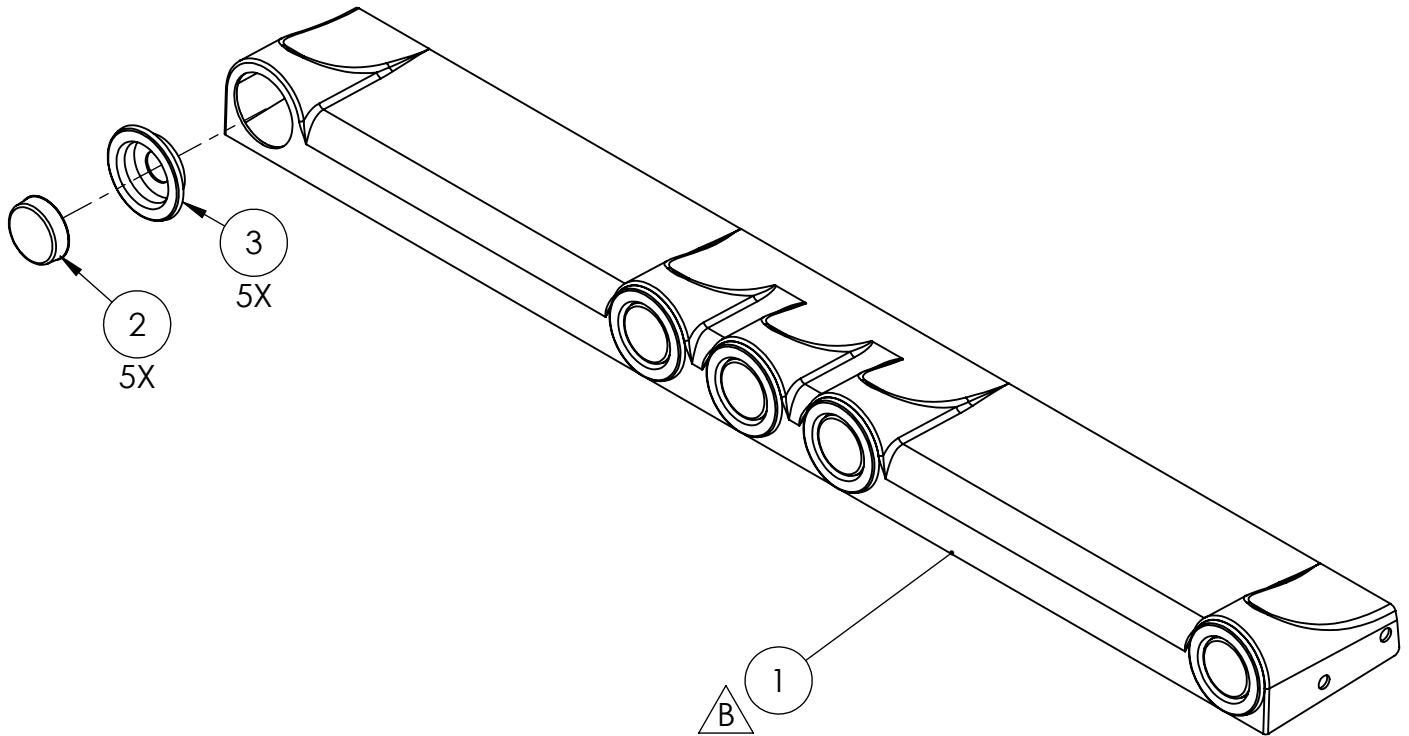


AC HOSE BRACKET INSTALLATION

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
REF	330915	AC HOSE BRACKET INSTL	REF
1	031506	WASHER,FLAT,Ø 7/16",USS	1
2	030557	WASHER,FLAT,USS,Ø 3/8"	1
3	030592	WASHER,SPRING LOCK,Ø 1/2"	1
4	030373	WASHER,SPRING LOCK,Ø 5/16"	1
5	030636	BOLT,HEX,HEAD,1/2-13-UNC x 1"LG	1
6	031433	BOLT,HEX,HEAD,5/16-18-UNC x 1"LG	1
7	330793	AC SUPPORT BRACKET	1



NOTES
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ITEM NO.	PART NUMBER	DESCRIPTION	QTY
REF	326989	LIGHTBAR ASSY, 2-1/2" - STD	REV B
1	660302	LIGHTBAR, LOW PROFILE	1
2	318629	LIGHT, AMBER, 2 1/2"	5
3	317556	GROMMET, MOUNT LAMP, OPEN, 2 1/2"	5
4	354515	HARNESS "FRONT I.D. LIGHTS"	1



CHAPTER **5**

Group--Electrical

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Elevator/Broom Switch Panel Assembly	5.15
Hopper/Water Switch Panel Assembly	5.19
Light Switch Panel Assembly	5.23
A/C Heater Switch Panel Assembly	5.26
Pickup Broom Gauge Panel Assembly	5.29
Shifter Panel Assembly	5.32
ECU Assembly	5.36
Engine Electrical Installation	5.41

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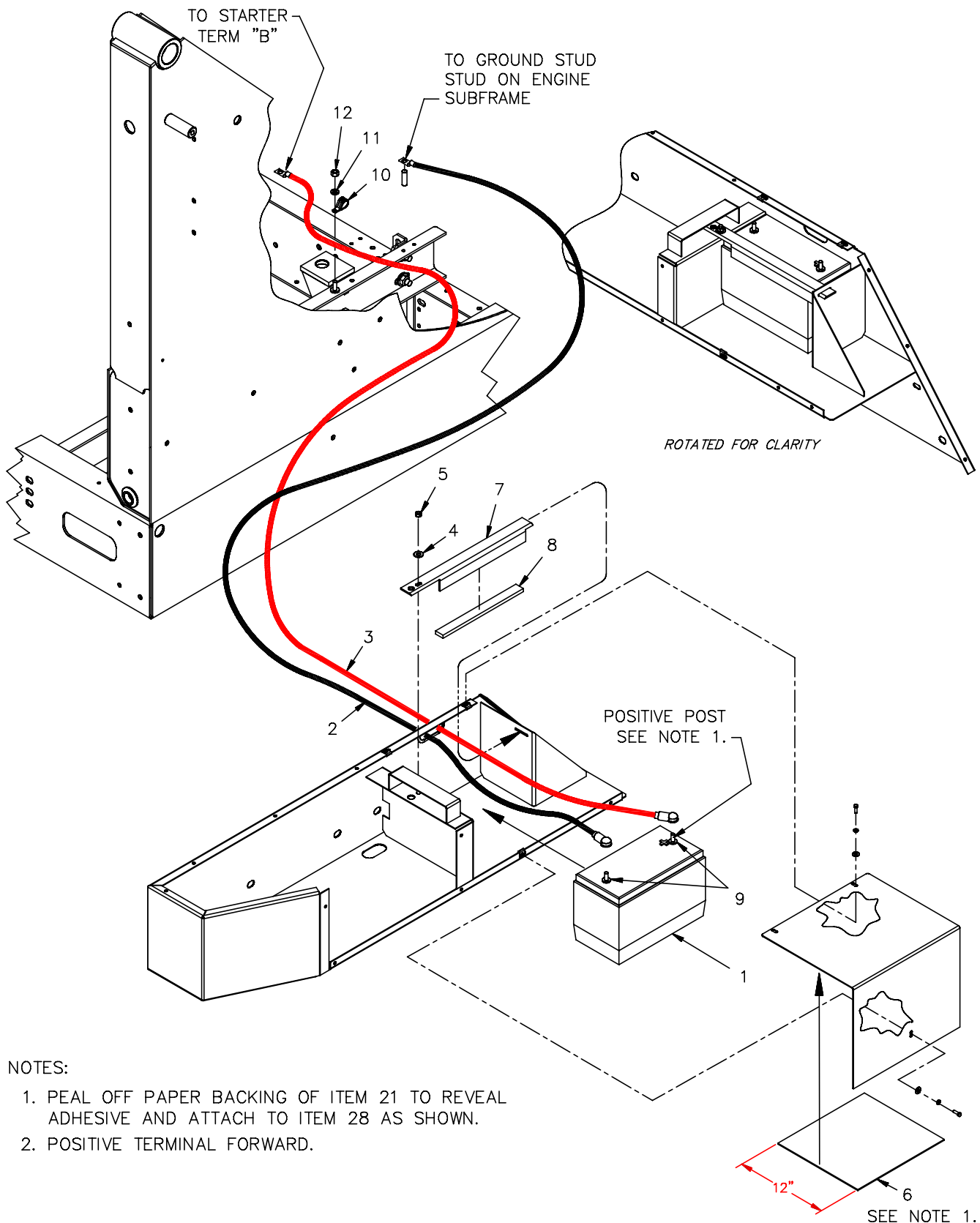


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Battery Installation RH Fender



NOTES:

1. PEEL OFF PAPER BACKING OF ITEM 21 TO REVEAL ADHESIVE AND ATTACH TO ITEM 28 AS SHOWN.
2. POSITIVE TERMINAL FORWARD.



Battery Installation RH Fender

CHAPTER 5

Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	324376	Battery Installation RH Fender	B Ref	11	030605	Washer- Loc, Split, Pltd, 3/8 Gr8	1
1	309003	Battery- maint. free 12v 900 CCA	1	12	030599	Nut- Plated, 3/8-16 Gr8	1
2	325080	Wire Assy "Battery Gnd"	1				
3	325079	Wire Assy "Bat +"	1				
4	030557	Washer Flat Uss Plated 3/8	1				
5	023885	Nut- Loc Nyl Insert Plt 3/8-16	1				
6	323846	Rubber Battery Cover	1				
7	323984	Angle, Battery Strap	1				
8	896682001	Spring Rubber Strip 1/4 X 3/4	1				
9	325056	Battery Corrosion Preventive	1				
10	325126	Clamp, #12 Cushion	1				

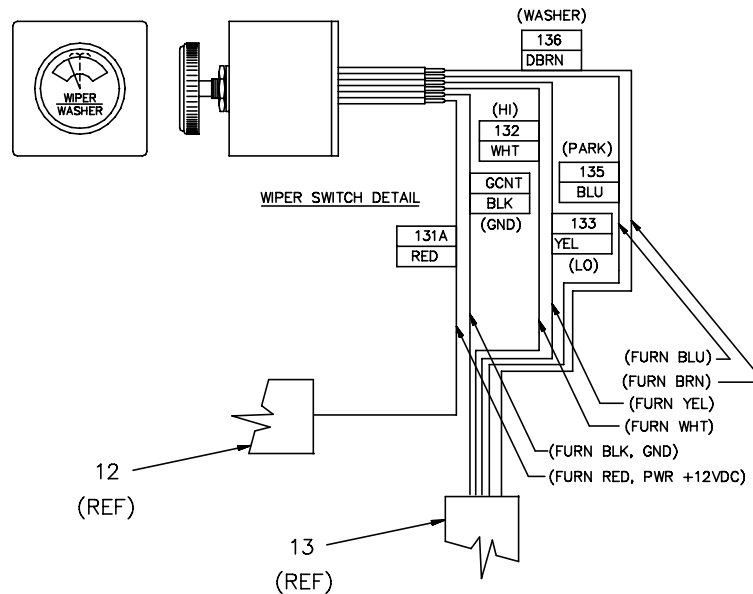
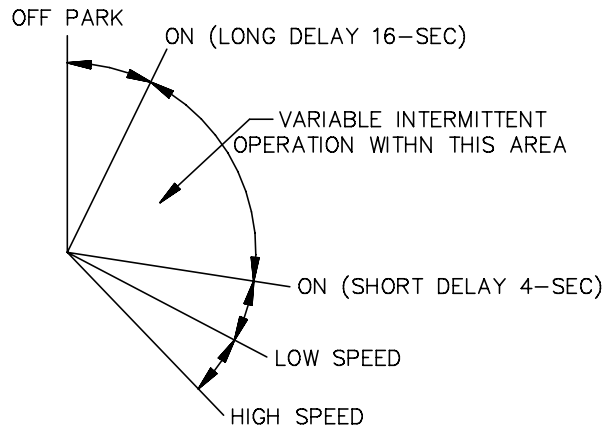


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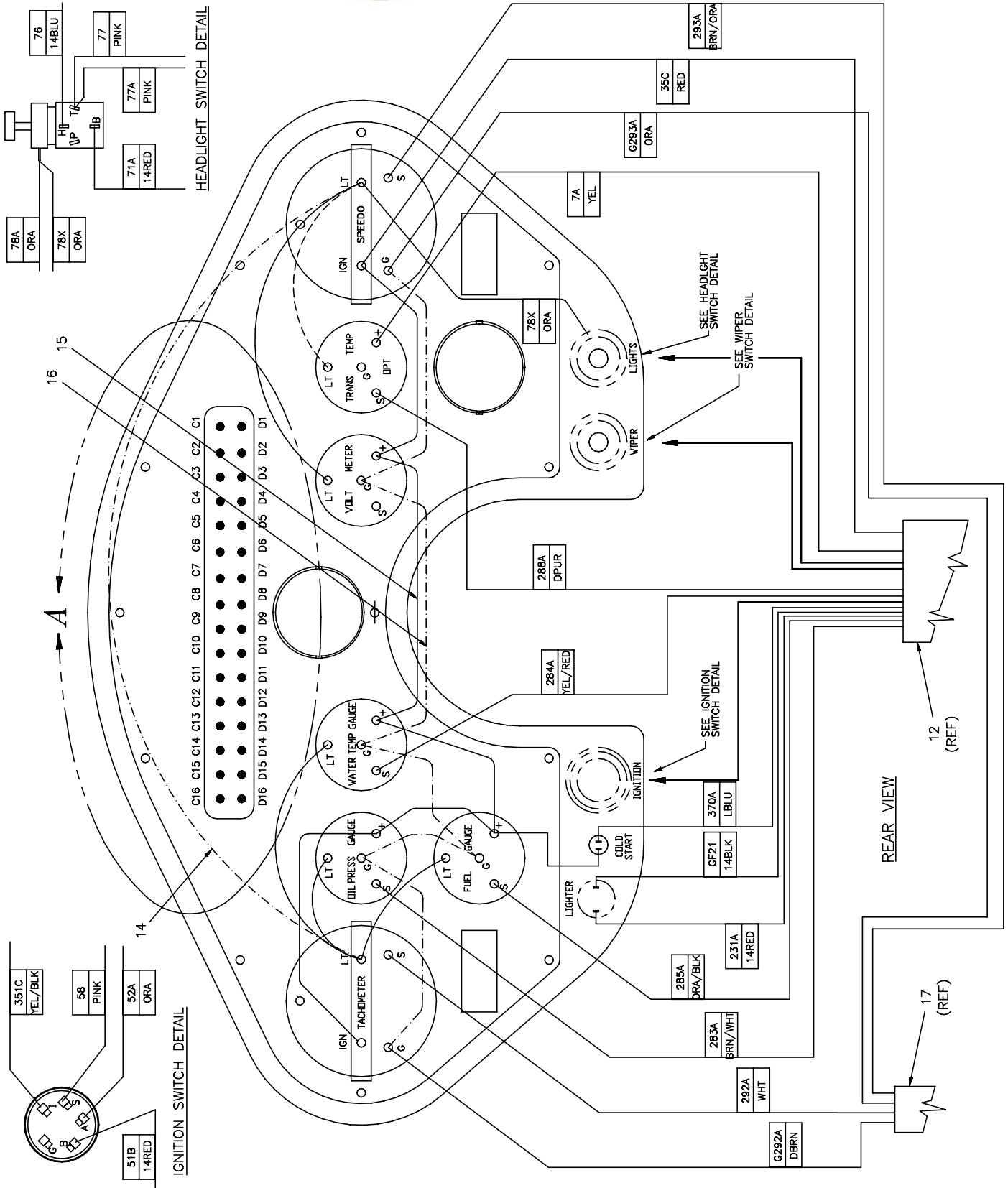


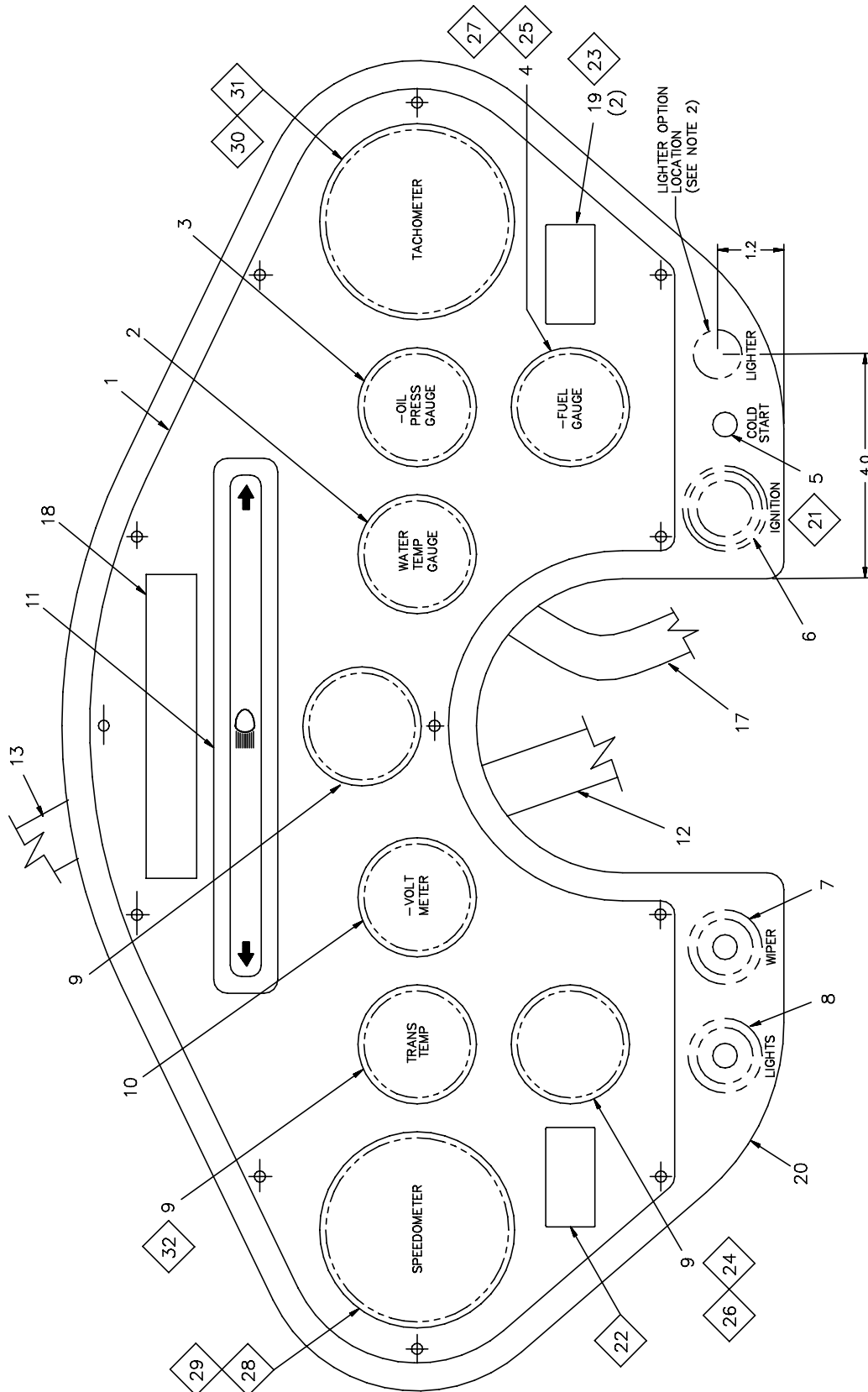
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WIPER SWITCH FUNCTION



Front Console Panel Assembly

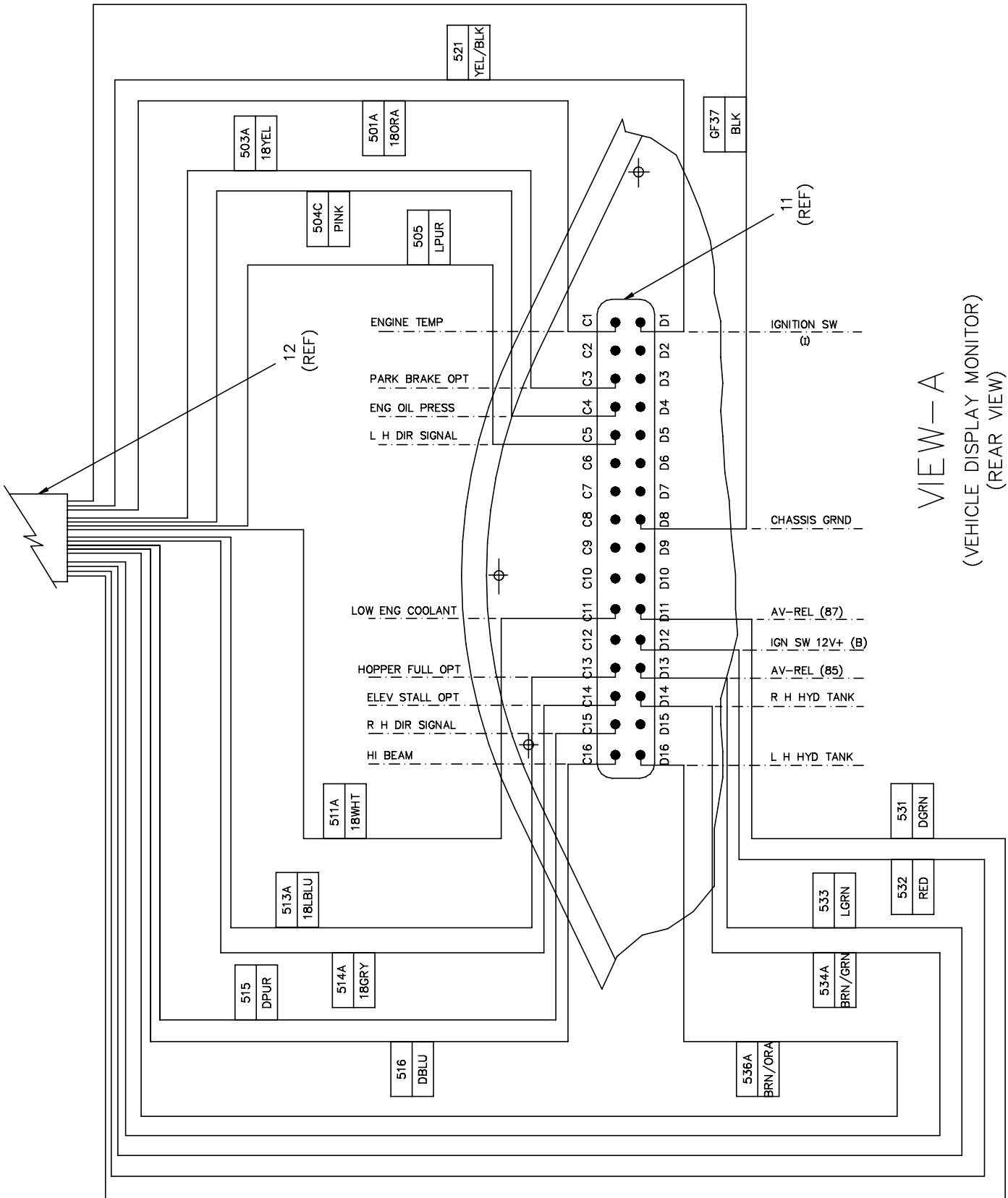




2. WHEN LIGHTER OPTION IS USED,
CUT .875 ϕ HOLE IN POSITION SHOWN.

1. — OPTION

NOTES:



VIEW—A
(VEHICLE DISPLAY MONITOR)
(REAR VIEW)

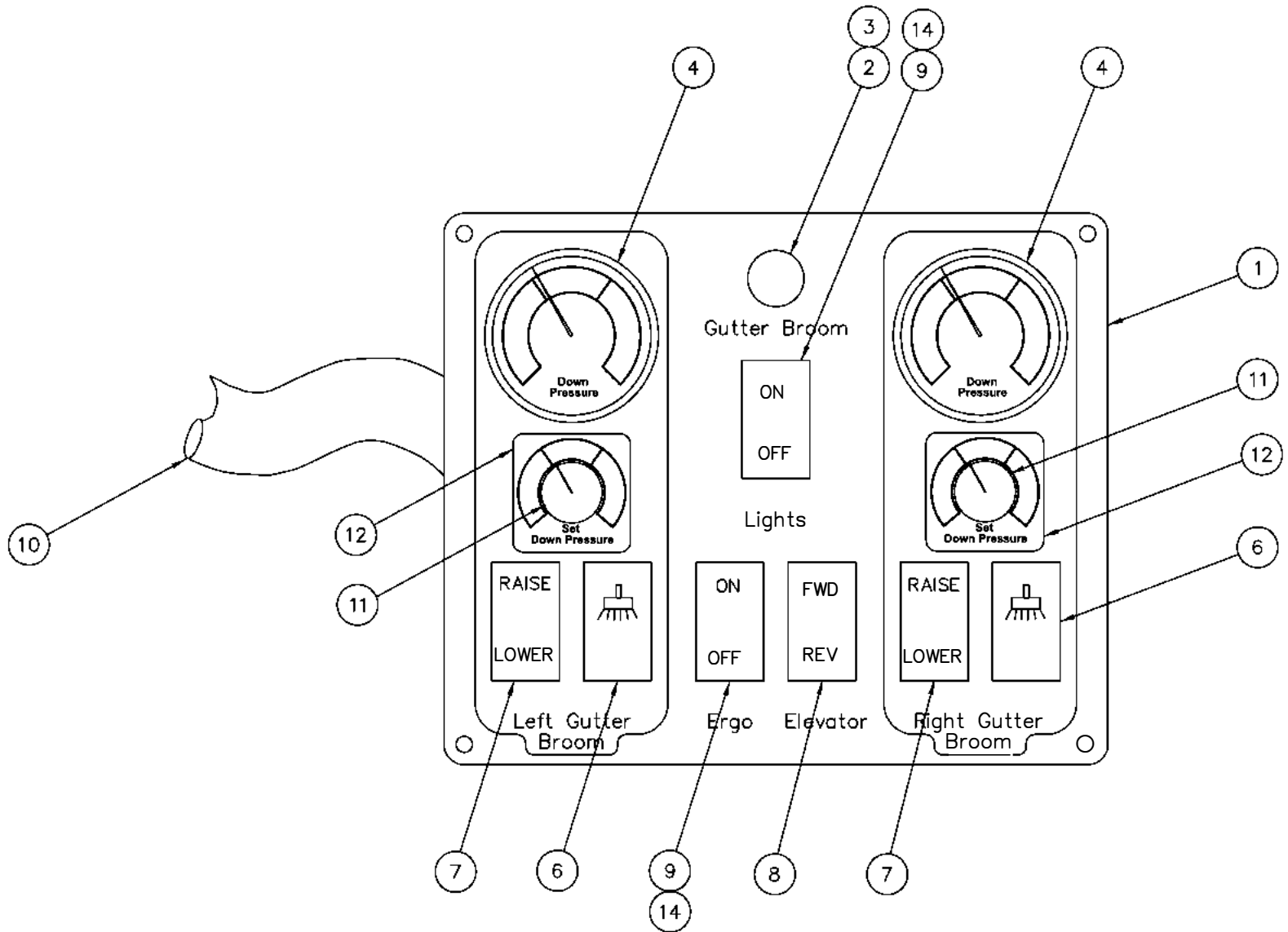


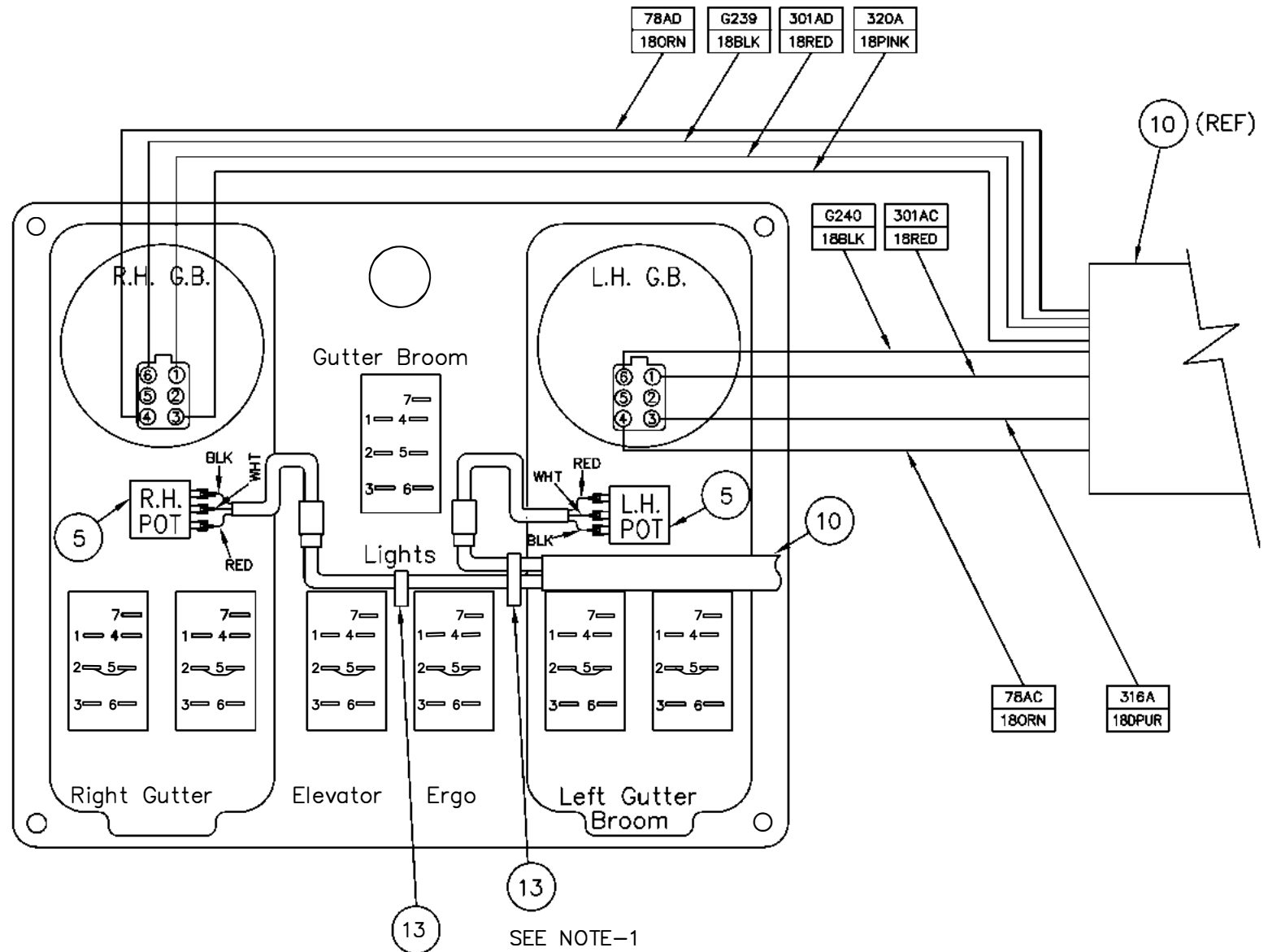
Front Console Panel Assembly

CHAPTER 5

Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	331023	Front Console Panel Assembly	1 Ref	17	REMOVED	REMOVED	1
1	320253	Front Console Panel	1	18	324639	Plate, Cover	1
2	317652	Gauge, Temp 100-280 Deg F	1	19	316569	Hole Plug	2
3	058580	Gauge-Oil Pressure	1	20	315785	Bezel---Dashboard	1
4	058582	Gauge-Fuel	1				
5	310338	Plug Button - 5/8	1				
6	353151	Switch-Ignition,8a,Pollak	1				
7	312440	Switch, Wiper/Washer	1				
8	203876	Switch-Headlamp	1				
9	310346	Plug Button - 2 1/8	3				
10	070131	Voltmeter 12v	1				
11	328190	Display-Vehicle Monitor	1				
12	331026	Harness "P2/Bk2 - Front"	1				
13	354356	Harness "Wiper/Washer"	1				
14	324653	Wire Assy Line 78y	1				
15	324654	Wire Assy Line 35y	1				
16	324655	Wire Assy Line G-Gauge	1				

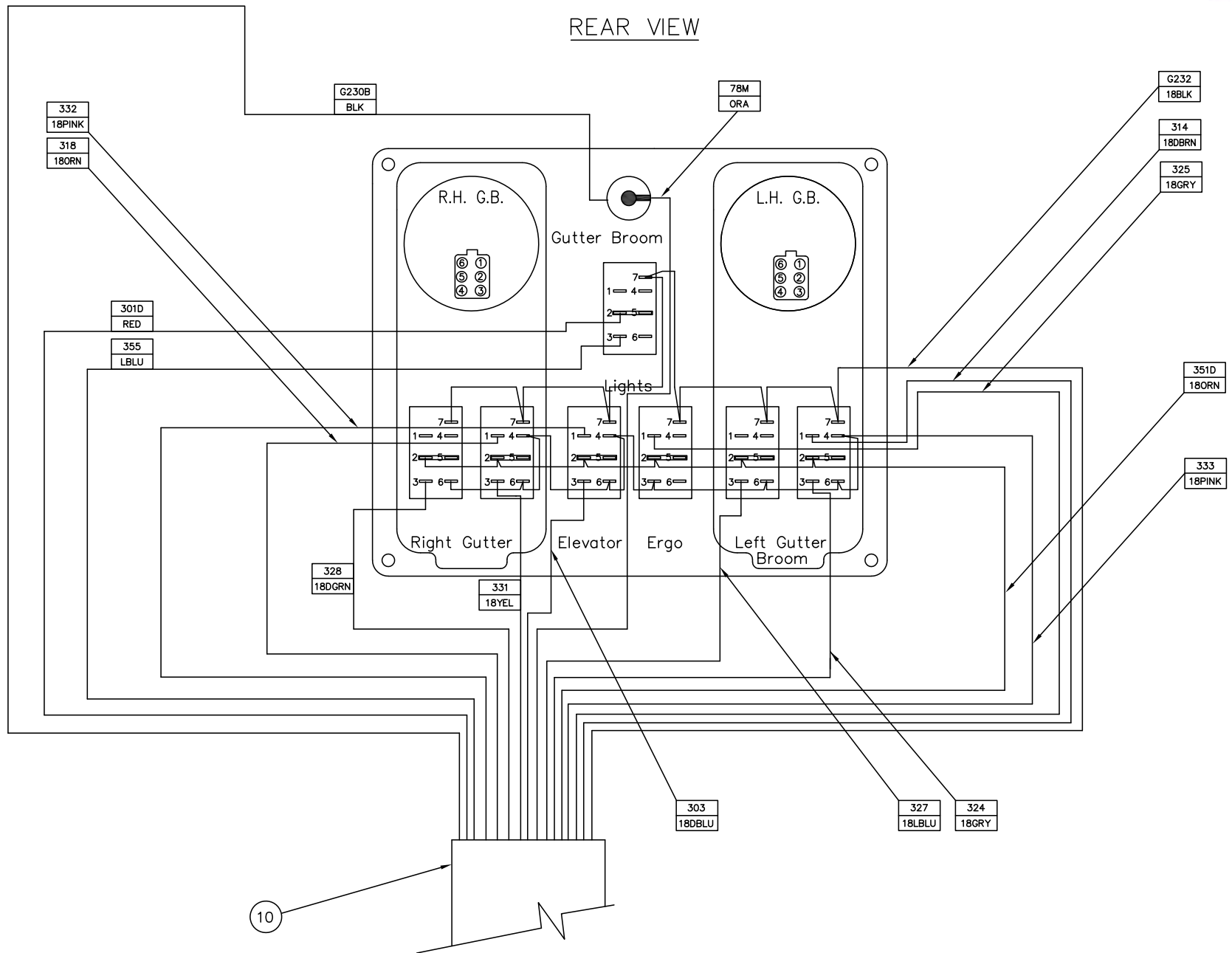






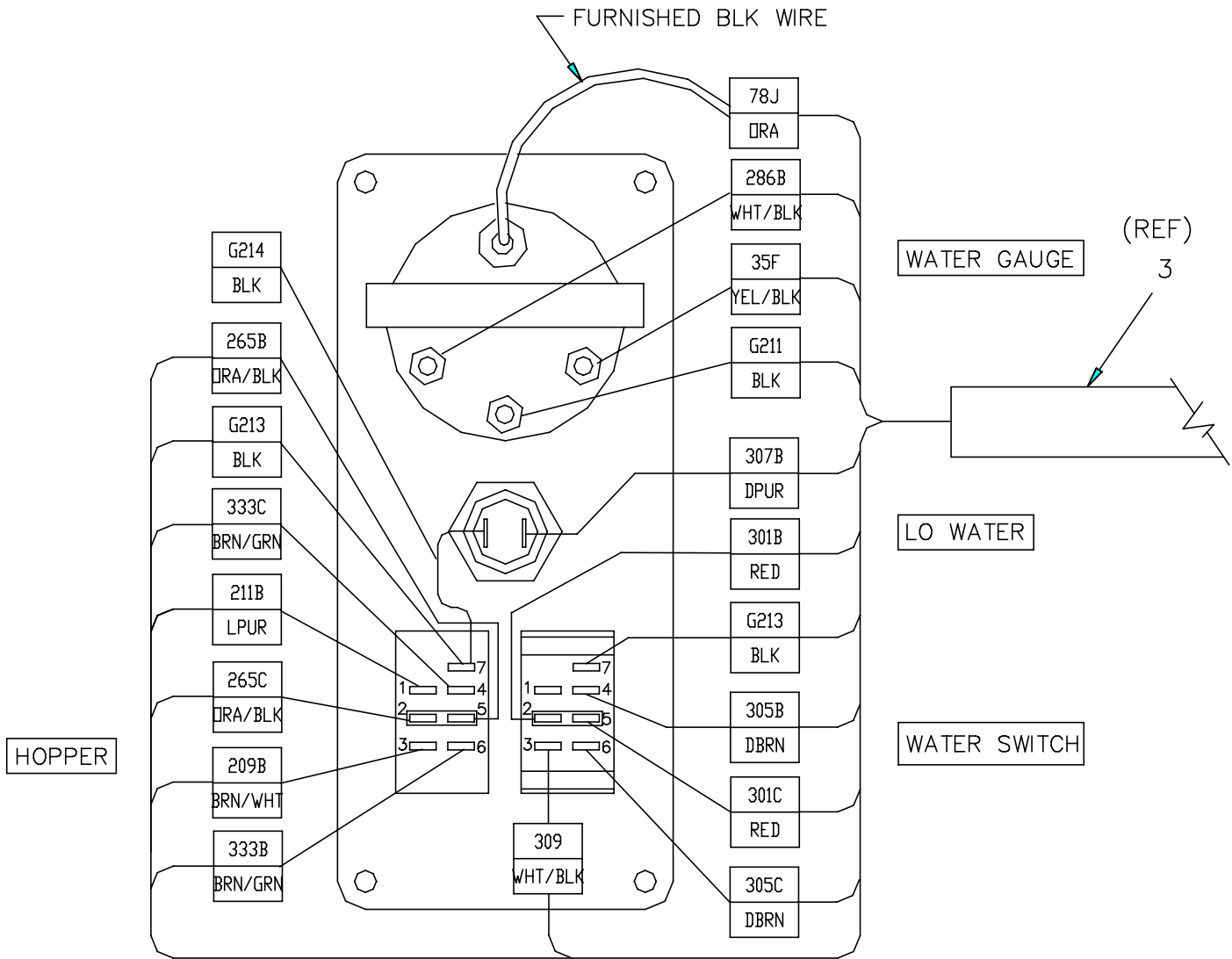
NOTE:

1. TIGHT CABLE BRANCHES TO SWITCH WIRES.

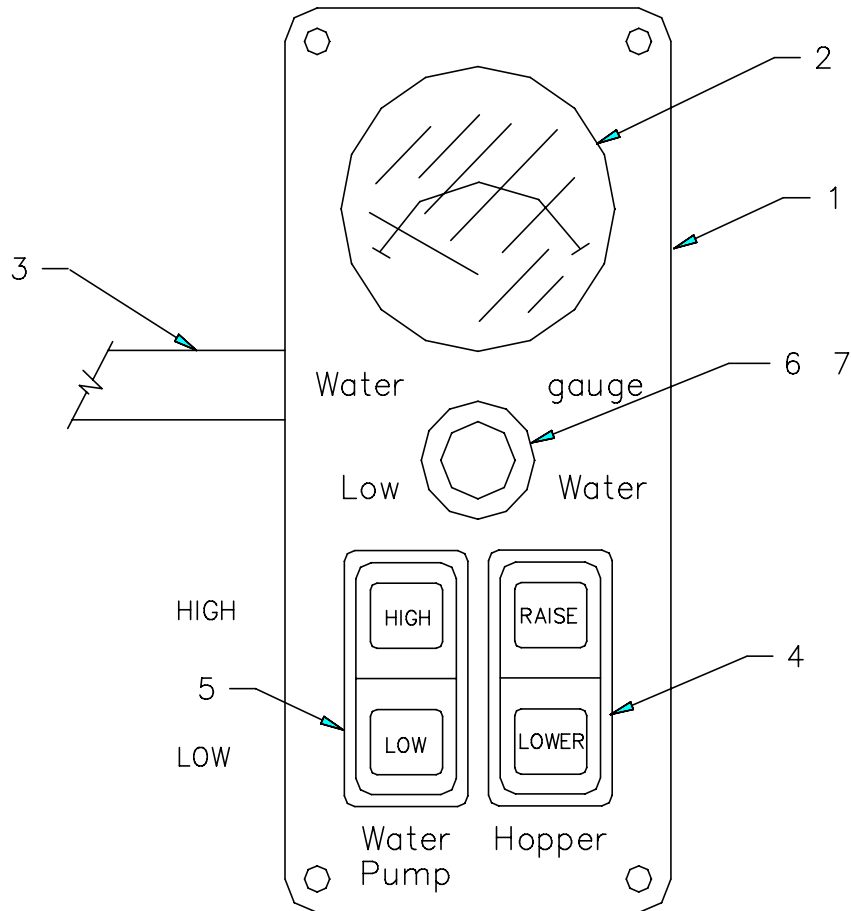




ITEM NO.	PART NO.	DESCRIPTION	NO. REQD
1	331020	GB SW PANEL-LEXAN, MX3J, GLOBAL	1
2	318768	DASH LIGHT- INSTRUMENT PANEL	1
3	316632	BULB, 12V - AUTOMOTIVE	1
4	327448	DOWN PRESSUR GAUGE	2
5	327736	POTENTIOMETER 5 KOHM, REWORK	2
6	323814	SWITCH- ROCKER	2
7	317366	SWITCH- ROCKER	2
8	317368	SWITCH- ROCKER	1
9	320341	SWITCH-ROCKER	2
10	331027	HARNESS, P4-FRONT, MX3J, GLOBAL	1
11	327459	KNOB BLK MATE .75 DIA .25 SHFT	2
12	327438	DECAL SET, GB DOWN PRESSURE	2
13	608881	CABLE TIE	2
14	353701	LABEL ON / OFF	1



REAR VIEW OF PANEL



FRONT VIEW OF PANEL

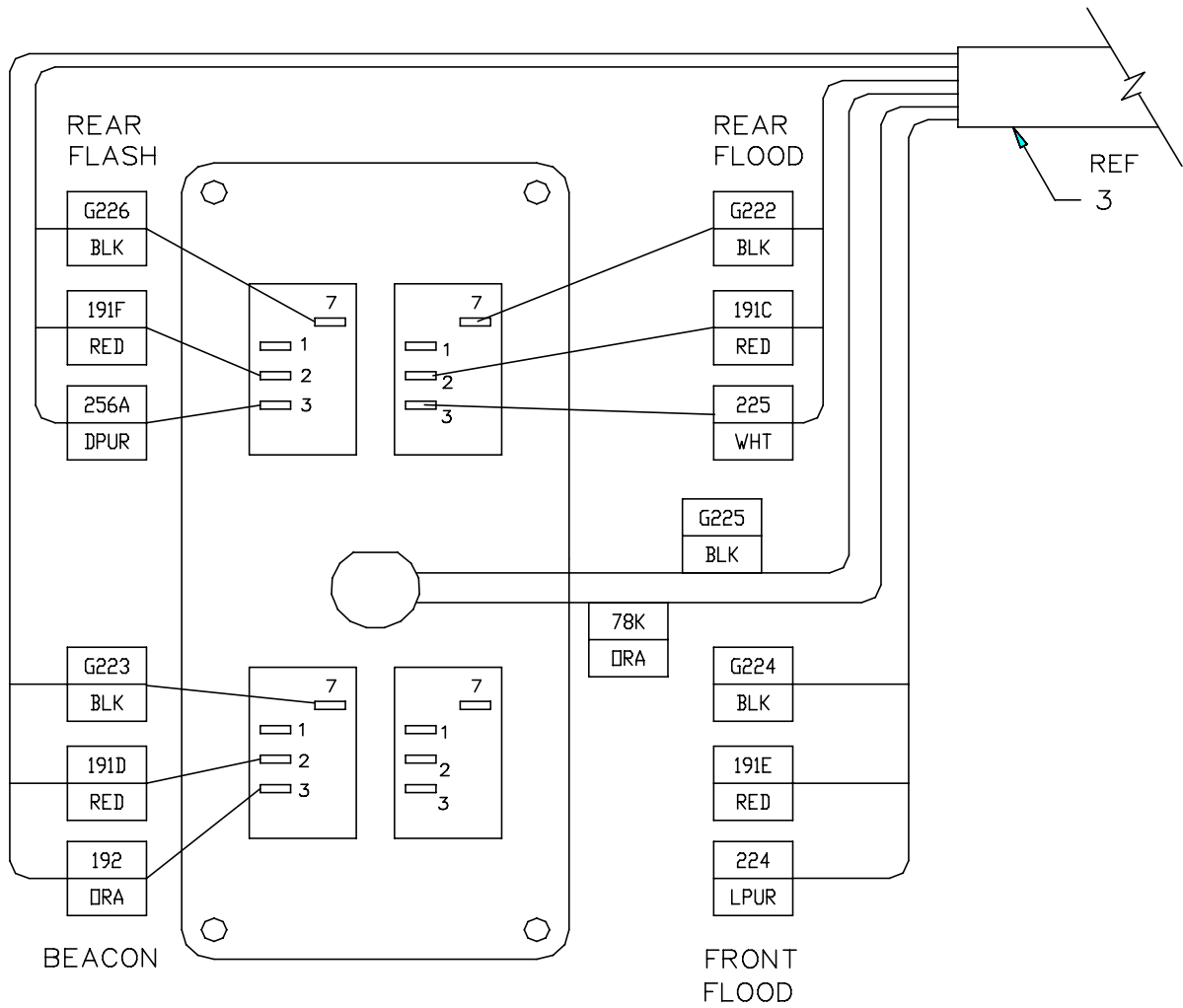
Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	324555	Hopper/Water Pump Panel Assy A	Ref	6	314422	Pilot Light-red	1
1	315797	Panel- Water Pump/Hopper Lexan	1	7	314434	Bulb, 0.5a, #1888	1
2	310346	Plug Button - 2 1/8	1				
3	323666	Harness "wat/Hop-dash Board"	1				
4	317366	Switch Rocker Raise/Lower	1				
5	324553	Switch Rocker High/Low (Spray)	1				



NOTES
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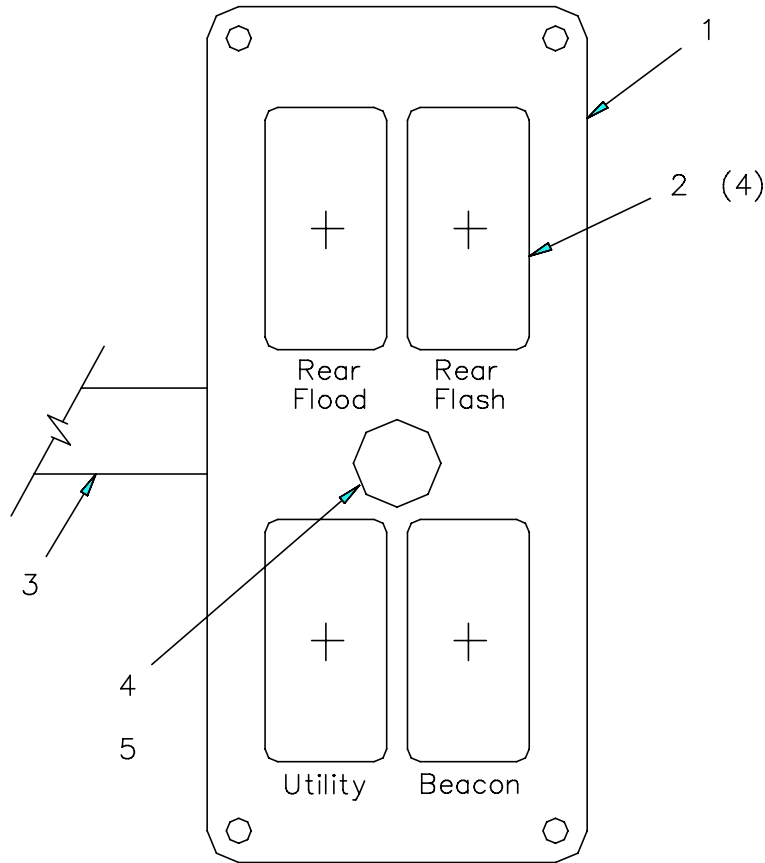
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REAR VIEW OF PANEL

NOTE:

1. MISSING COMPONENTS FOUND ON "OPTIONS".



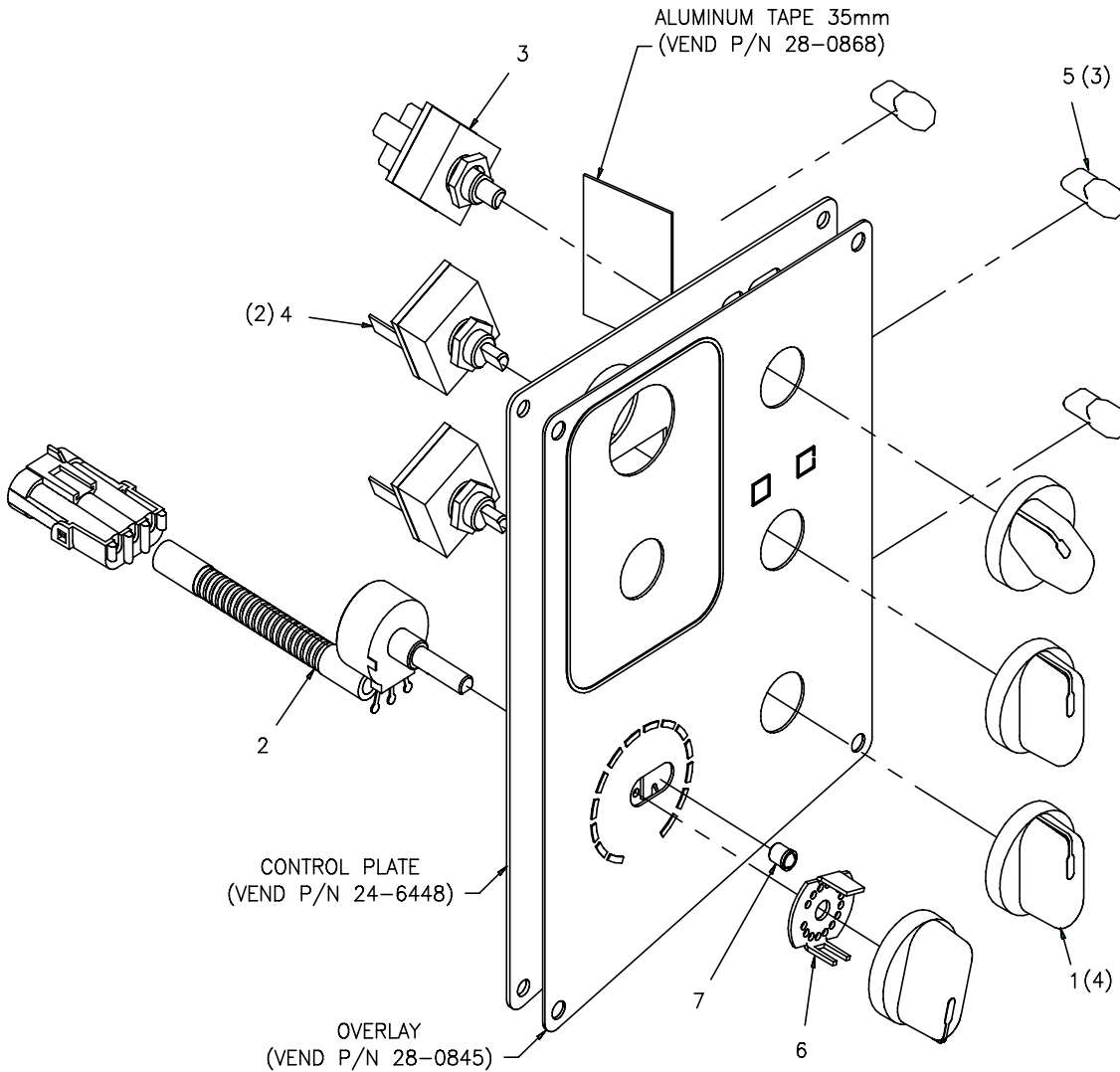
FRONT VIEW OF PANEL

Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	324641	Light Switch Panel Assy	C Ref				
1	315798	Panel- Light Switch, Lexan	1				
2	316569	Hole Plug	4				
3	324330	Harness Light Sw Panel Assy	1				
4	318768	Dash Light-instrument Panel	1				
5	316632	Bulb, 12v-automotive	1				
	316607	Floodlight Option Rear Dual	2				



NOTES
NOTES

CHAPTER 5



1. ITEMS 8 AND 9 NOT SHOWN
NOTES, UNLESS OTHERWISE SPECIFIED

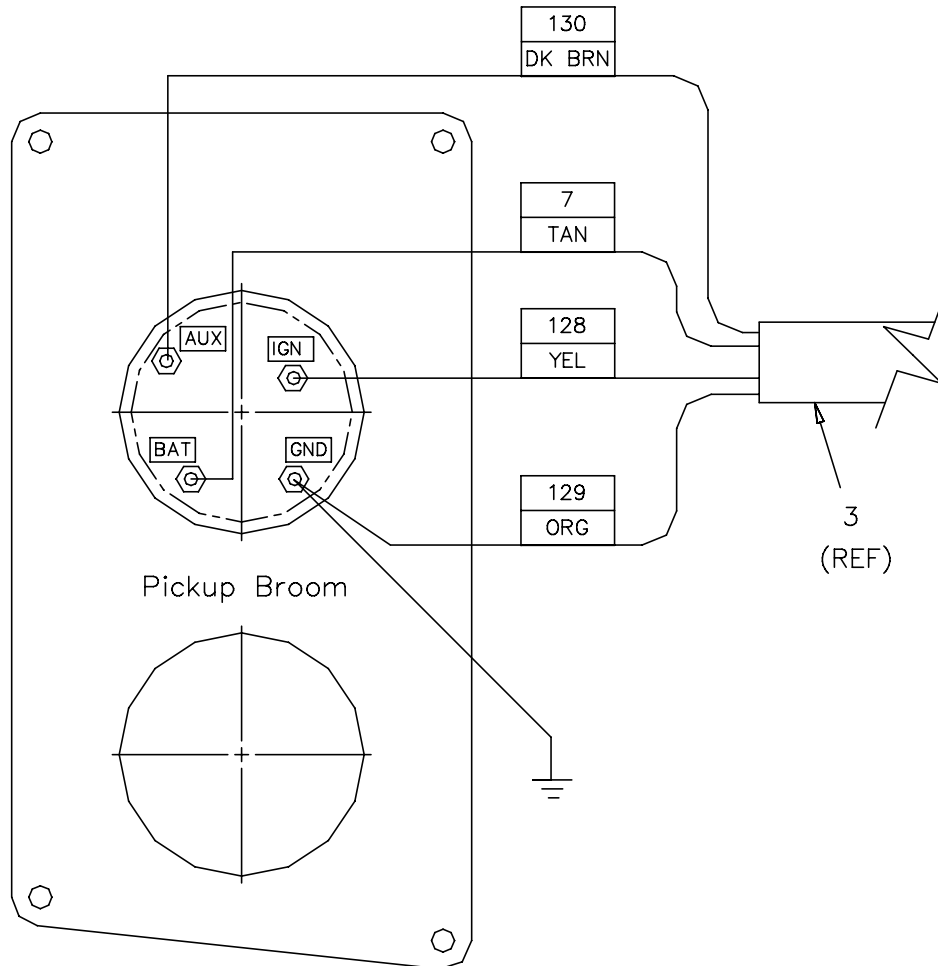
Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	381935	A/C & Heater Panel Assembly	C Ref	6	381962	Disc (Temp)	1
1	381937	Knob	4	7	381963	Push Fit Plunger	1
2	381936	Potentiometer Assy, Temp	1	8	382267	Harness, Water Valve	1
3	381938	Switch, Blower	1	9	381943	Harness, Jumper	1
4	381939	Switch, On-off	2				
5	381940	Bulb, Mini	3				



NOTES
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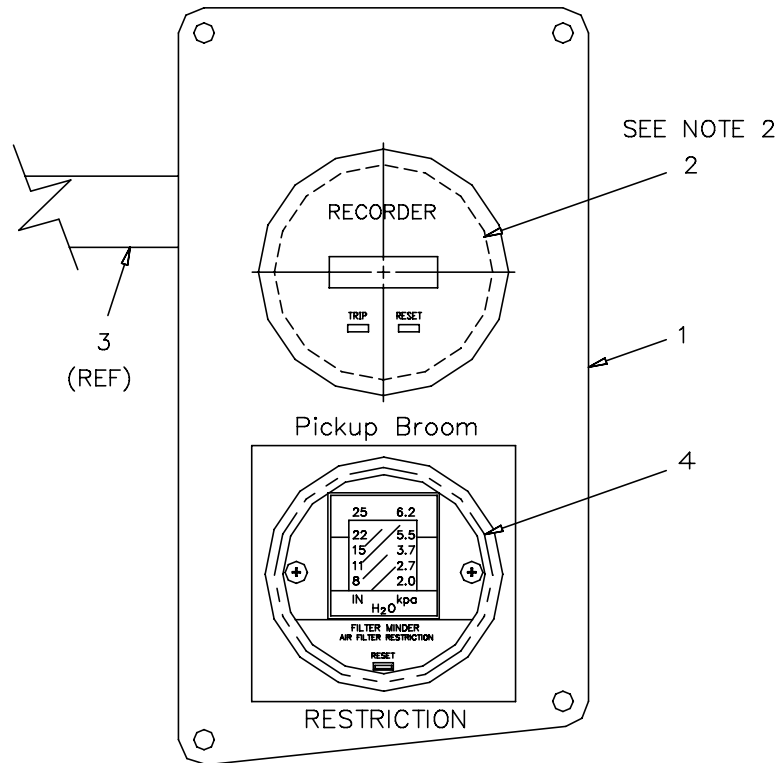
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REAR VIEW OF PANEL

1. OUTLINES AND LETTERING TO BE SEMIGLOSS WHITE, BACKGROUND TO BE MATTE BLACK.
2. SEE ODOMETER GUTTER BROOM OPTION.

NOTES:



FRONT VIEW OF PANEL

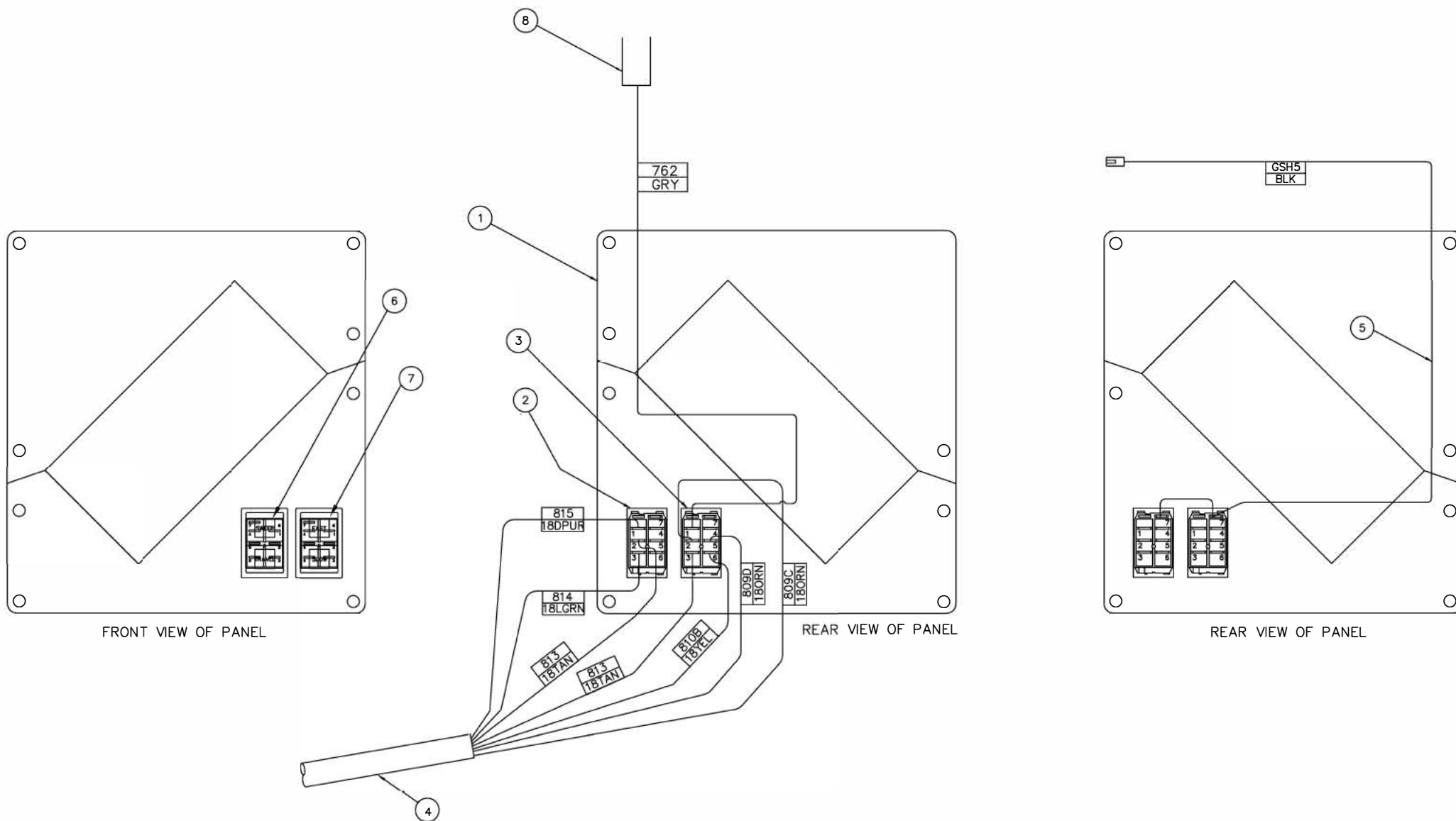
NOTE:

1. SEE OPTION SECTION FOR ADDITIONAL INFORMATION.

Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	318872	Pickup Broom Panel Assembly - Ref					
1	318876	Panel- Pub Gauge, Lexan Lamin.	1				
2	310346	Plug Button - 2 1/8	1				
3	317407	Harness-shifter/Blower/Pub	0				
4	317651	Restriction Gauge, Air Filter	0				



NOTES
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NOTE: REMOVE JUMPER 2-5 IN THE SWITCH 331041



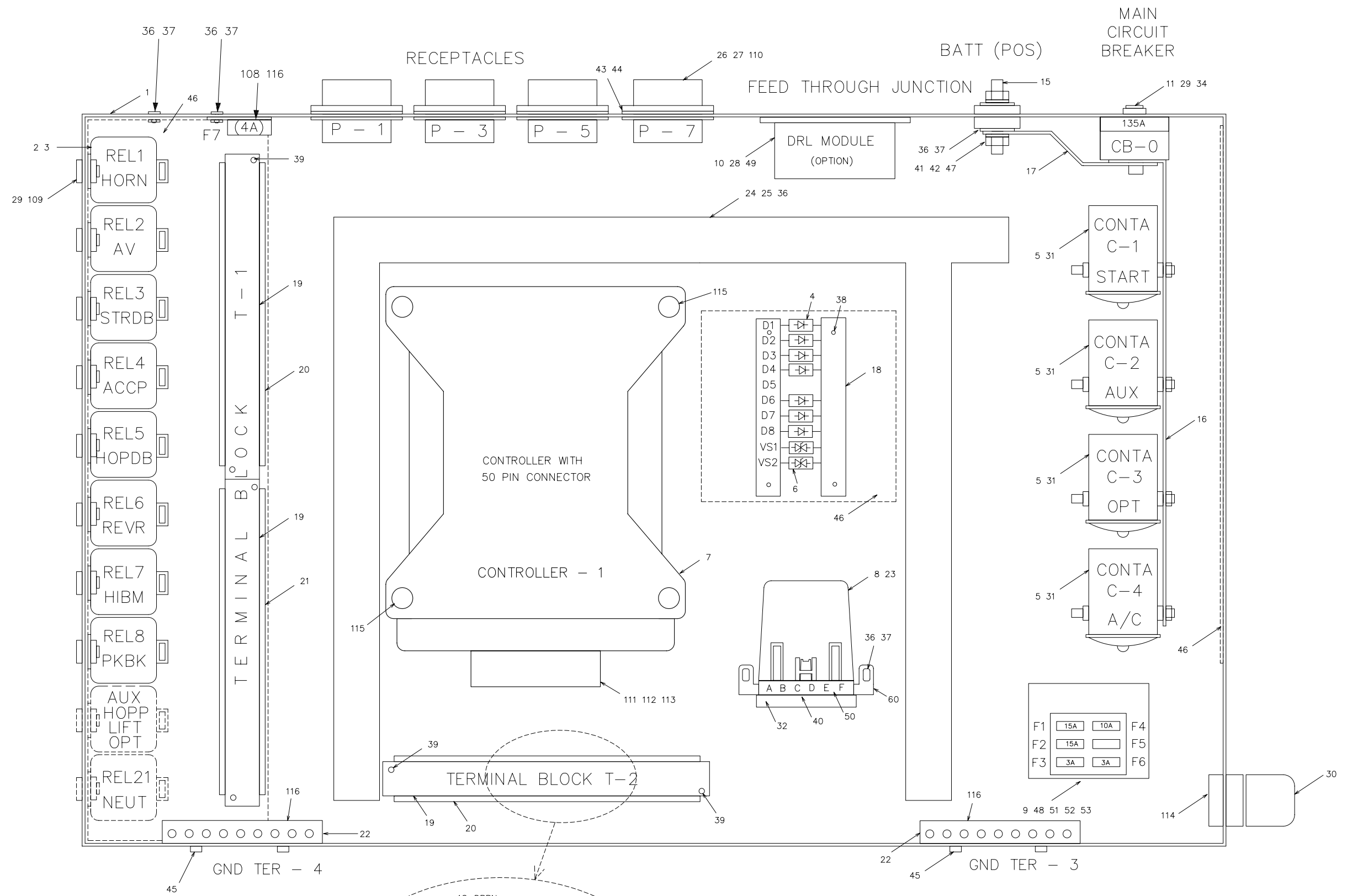
Itm	Part Number	Description	Qty
1	353640	SHIFT LEVER OVERLAY,LEXAN LAMINAT.	1
2	320341	SWITCH ROCKER, IDLE DIAG/PTO, RPM	1
3	320342	SWITCH PTO ON/OFF	1
4	328765	HARNESS,CONTROL SWITCHES,MX3J	1
5	329114	WIRE ASSY. PNL-GND, M3JD	1
6	353613	LABEL, TRAVEL/SWEEP	1
7	353614	LABEL, RPM FAST/LOW	1
8	330274	HARNESS,SAU.DRV CNTR-FRNT,M3JD	1



NOTES
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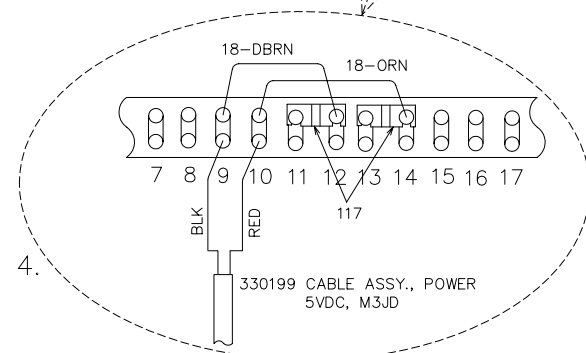


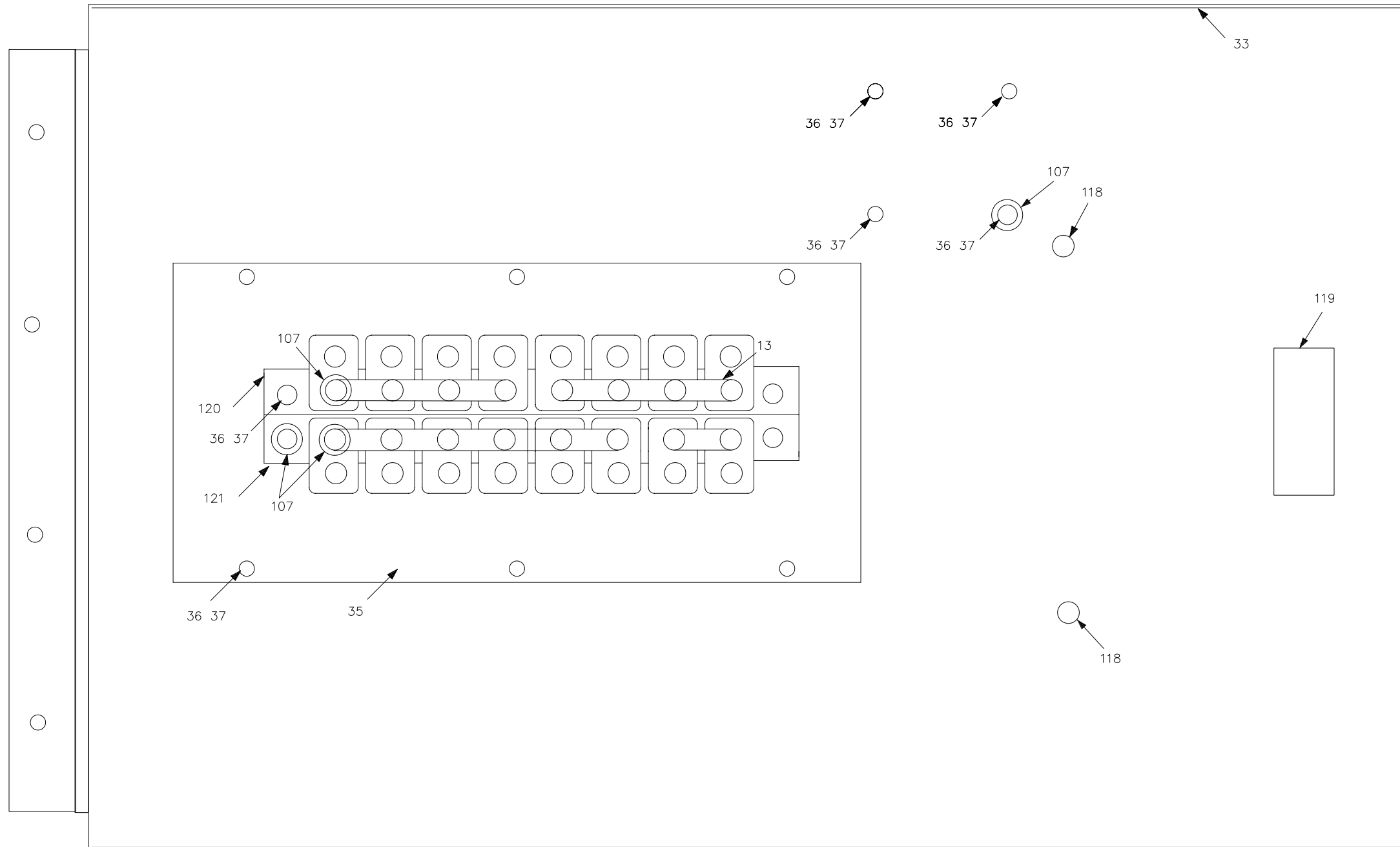
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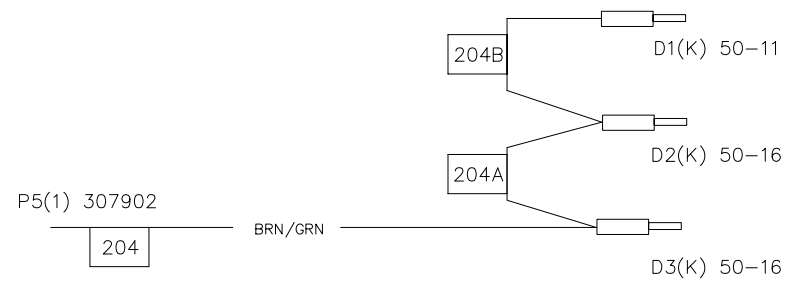


1. APPLY THREADLOCKER-REMOVABLE P/N 896796 TO LOCK CONTACT SCREWS ON THE GND-TER 3 & 4.

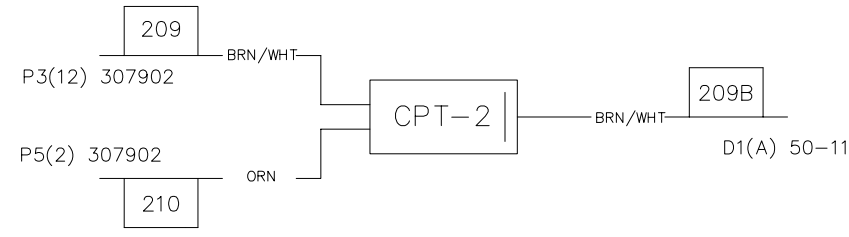
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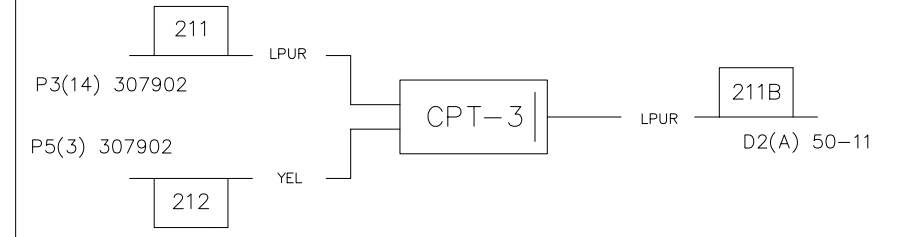




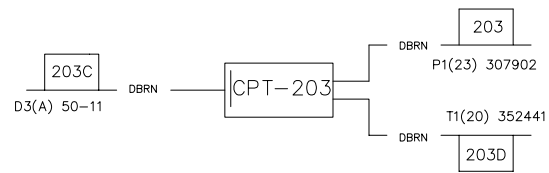
ASSY #1



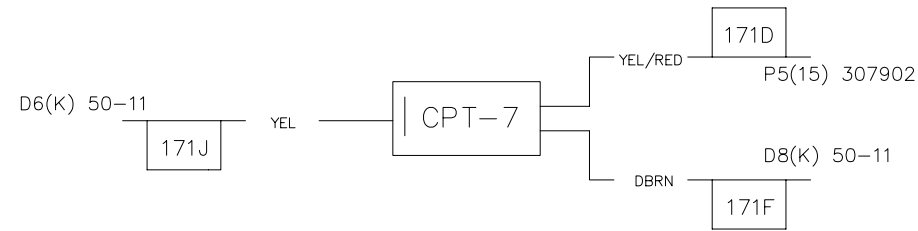
ASSY #2



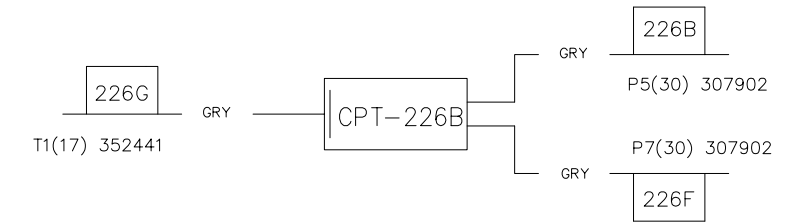
ASSY #3



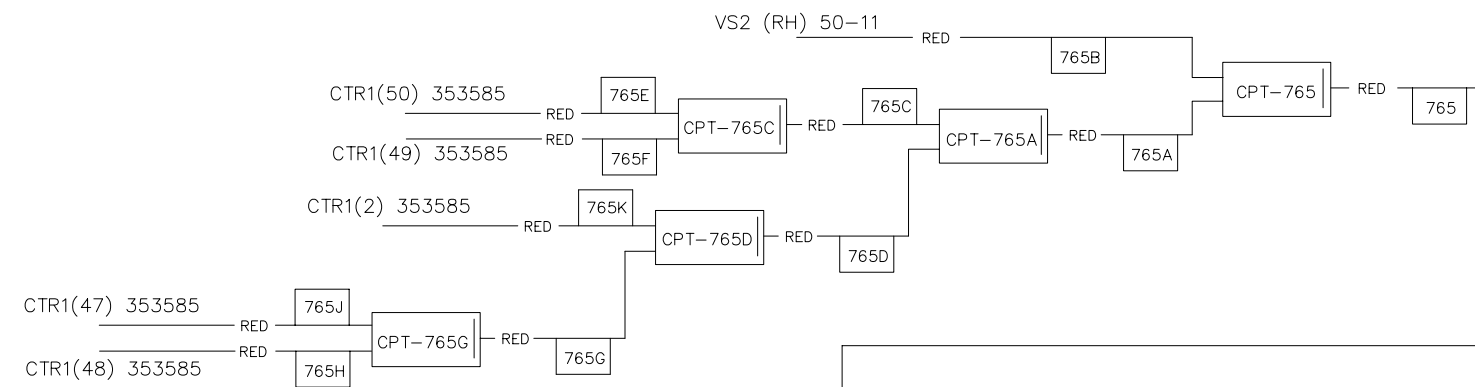
ASSY #4



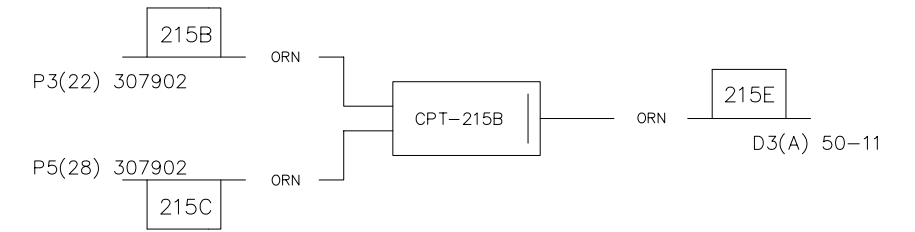
ASSY #5



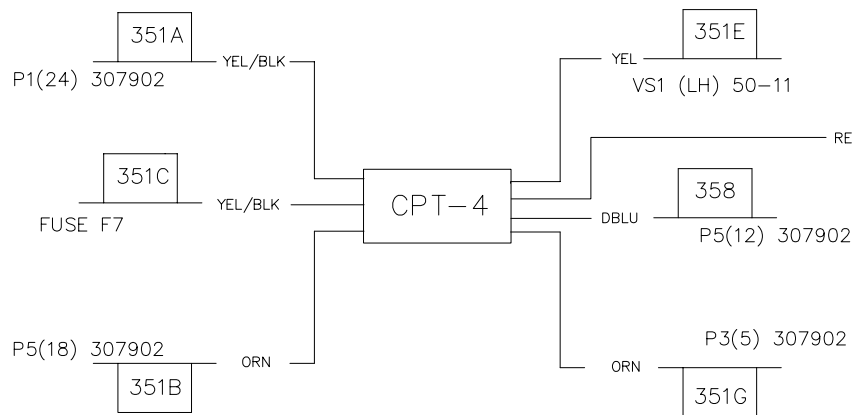
ASSY #6



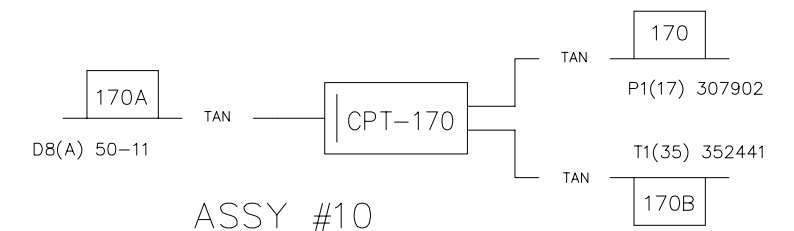
ASSY #7



ASSY #8



ASSY #9



ASSY #10



ASSY #11



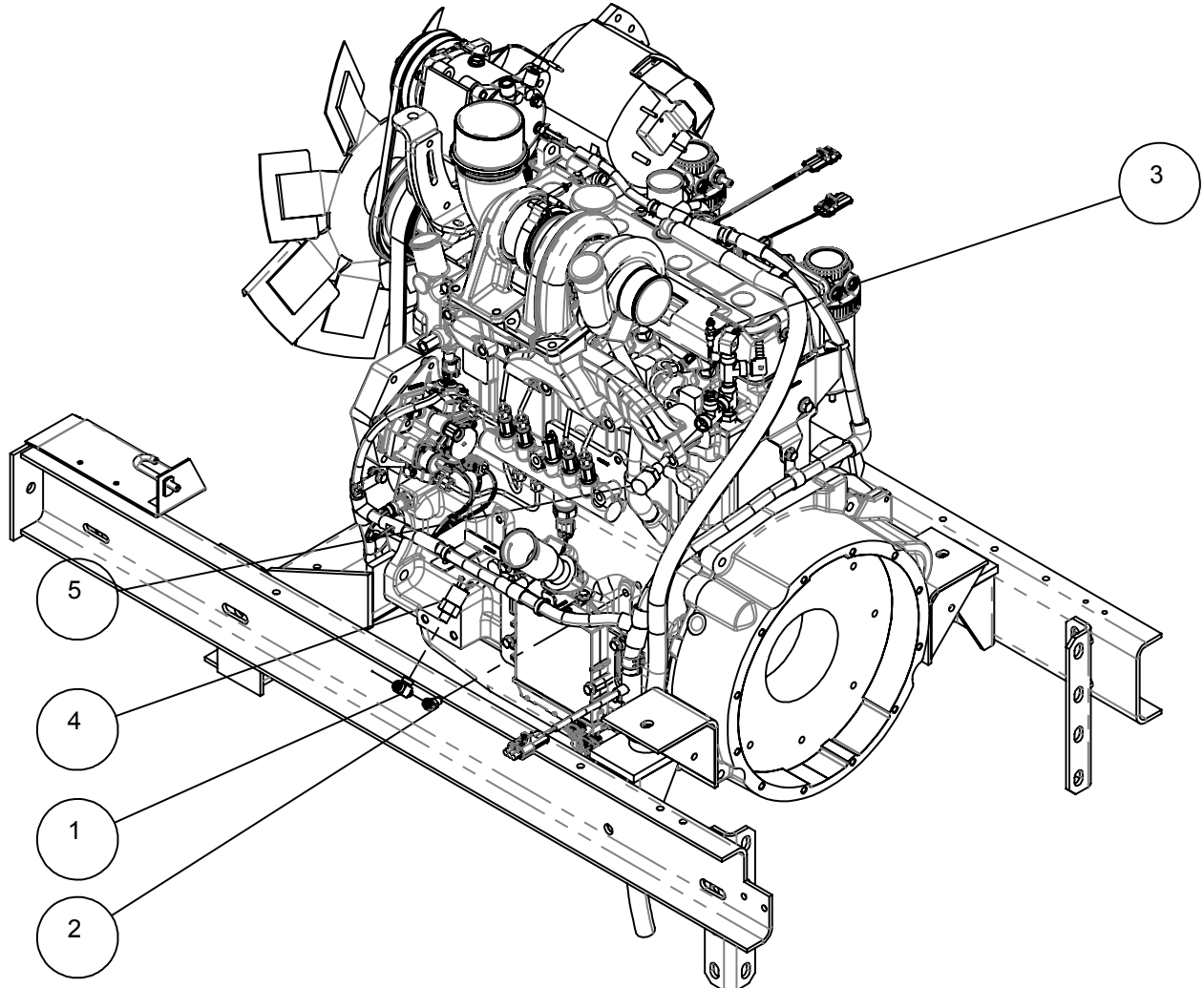
ECU Assembly

CHAPTER 5

Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	331022	ECU Assembly	1 Ref	47	035876	Nut Hex Jam 1/4-28	4
1	324096	Weldment ECU-Box	1	48	900081	Scr-Pan Hd,10-24x1	2
2	314741	Relay, 40 Amp, Weatherproof	10	49	317677	Scr-Btn Soc HD,10-32x3/4, SS	2
3	323603	Relay Socket, Weatherproof	10	50	327440	Speed Switch (Shifter)	1
4	13984	Diode 35a	7	51	319083	Fuse, 15 Amp	2
5	316082	Power Contactor 80 Amp	4	52	30-44	Fuse, Ato/Atc 1/4blade 10a (Mp)	1
6	354300	Interval Timer- Fixed 32 Sec.	1	53	321996	Fuse 3amp, Blade Type Waytek	3
7	331000	Monitor- Underspeed	0	54	900105	Nut-Keps, Plated, 1/4-20	10
8	327460	Socket - Terminal	1	55	REMOVED	REMOVED	1
				56	REMOVED	REMOVED	1
9	323889	Fuse Panel	1	57	REMOVED	REMOVED	1
10	353665	Day Time Running Lights Module	0	58	REMOVED	REMOVED	1
11	353357	Circuit Breaker 135 A., Master	1	60	327541	OFFSET CLIP	1
12	323752	Circuit Breaker Assy	1	61	893820	Wire 10 Ga Black	98
13	203766	Bus Bar	1	62	893802	Wire 10 Ga Red Wire	14
14	317491	Circuit Breaker Rework	1	63	893820	10 Ga Black	47
15	323595	Feed Through Junction	1				
16	325598	Bar,Copper-4branch Dstrib Rwrk	1	64	896007	Wire 10 Ga White	36
				65	893807	Wire 14 Ga Red	298
17	325599	Bar, Copper-Jumper Rework	1	66	893809	Wire 14 Ga Yellow	17
18	323605	Terminal Plug-In Strip 12 Pos	2	67	893810	Wire 16 Ga Black	138
19	323606	Terminal Strip, 18 Pos.	2	68	896442	Wire 16 Ga Brown/Green	43
20	323607	Marker Strip - 1-18"	1	69	896438	Wire 16 Ga Brown/Orange	53
21	323608	Marker Strip - 19-36"	1	70	896458	Wire 16 Ga Brown/White	51
22	323609	Copper Ground Terminal 6pos	1	71	896436	Wire 16 Ga Dk Blue	69
23	327539	Copper Ground Terminal 14pos	1				
24	323593	Wire Duct - Gray 1" X 2"	49	72	896457	Wire 16 Ga Dk Brown/Yellow	50
				73	896439	Wire 16 Ga Dk Brown	42
25	323594	Wire Duct Cover - Gray 1"	49	74	896434	Wire 16 Ga Dk Green	51
26	323599	Receptacle 31 Pin Pos.	3	75	896441	Wire 16 Ga Drk Purple	38
27	307902	Pin Contact (Ct)	70	76	893831	Wire 16 Ga Gray	43
28	317725	Nutsert- 10-32, Alum. Knurled	2	77	896435	Wire 16 Ga Lt Blue	82
29	900105	Scr-Truss Hd,Slit,Pl,1/4-20x3/4	12	78	896433	Wire 16 Ga Lt Green	48
30	326283	Strain Relief Pg-36, Plastic	1	79	896440	Wire 16 Ga Lt Purple	71
31	036549	Scr,1/4-20 X 1/2 Phillips Hd	10				
32	327538	Scr-Soc Hd,1/4-20x1	1	80	893814	Wire 16 Ga Orange	148
				81	896444	Wire 16 Ga Orange/Black	22
				82	896432	Wire 16 Ga Pink	64
33	324065	Cover Weldment, Ecu Box	1	83	893815	Wire 16 Ga Red	1179
34	030703	Nut Hex 1/4-20 Unc	2	84	896437	Wire 16 Ga Tan	11
35	324327	Panel, Cover	1	85	893817	Wire 16 Ga White	35
36	099335	Scr-Pan Hd,Slit,Pltd,10-24x1/2	28	86	897028	Wire 16 Ga White/Black Sxl	37
37	036860	Nut-Keps, Plated, 10-24	18	87	893816	Wire 16 Ga Yellow	82
38	321971	Screw,Phil,Oval,Hd 6-32x3/4 Ss	6				
39	035262	Scr-Pan Hd, Phil, 6-32 X 1/2	6	88	896623	Wire 16 Ga Yellow/Black	65
40	327586	Nut, 6-32 K-Lock	2	89	896815	Wire 16 Ga Yellow/Red	24
				90	323798	Wire Markers - Set	1
41	030489	Washer Flat Uss Plated 5/16	2	91	354357	Ecu-Box Parts Decal (Set)	1
42	030599	Nut- Plated, 3/8-16 Gr8	2	92	052350	Terminal Ring	3
43	323645	Panel Nut - Shell Size 24	4	93	50-11	Term.Pin 16-14ga	22
44	323646	Panel Lockwasher-Shell Size 24	4	94	50-16	Term. Pin,12-10 Ga	4
45	327858	Scr-Hx, 1/4-28 X 3/4	4	95	311004	Term-5/16 Ring, 8 Ga, Insul	3
46	896922	Tape-Seal,4" Wide	39				



<u>Item</u>	<u>Pt No.</u>	<u>Description</u>	<u>Qty</u>	<u>Item</u>	<u>Pt No.</u>	<u>Description</u>	<u>Qty</u>
96	314993	Connector-Butt, 14-16 Ga (Ak)	3	109	031428	SCR-HXHDPLTD 1/4-20X1/2 GR8	10
97	315285	Connector-Butt, 10-12 Ga (Aq)	3	110	307899	SEALING PLUG (CU)	44
98	315507	Conn Butt 14-16/10-12 stepup (Am)	6	111	327617	PLUG DRC, 50S01	1
99	352431	Permaseal Term #10, 16-14ga (Na)	31	112	353585	SOCKET CONTACT, 20GA GOLD (LR)	42
100	352432	Permaseal Trm, Tab 1/4, 16-14 (Nb)	8	113	317875	PLUG	8
101	352441	Permaseal Term-Ring #6, 16-14	52	114	326284	LOCKNUT PG-36, PLASTIC	1
102	352443	Permaseal Term, Ring 5/16, 12---10	2	115	327585	SCR-PAN HD, PHL, 1/4-12X2-1/4	52
103	352444	Permasl Term, Ring #10, 12---10 (M)	2	116	327857	SCR SET 1/4-28X3/8 SLT OMLPSS	52
104	324875	Wire Marker Booklet	0	117	300731	JUMPER BAR	2
105	324879	Wire Marker Booklet, 1-45	0	118	327610	FINISHING PLUG 1/4"	2
106	896796	Threadlocker---Removable	0	119	327241	LATCH, FLUSH-ECU BOX	1
107	352907	SLEEVE-SHRINK TUBE	0	120	323752	CIRCUIT BREAKER ASSY	1
108	18015-11	FUSE HOLDER (MV)	1	121	317491	CIRCUIT BREAKER REWORK	1
				122	897280	RUBBER, CLOSED CELL 3/8W X 1/8T	1



ITEM	PART	QTY	DESCRIPTION	REV.
1	25392	1	FITTING, HYD, T, MNPT-02 X FNPT-02 X FNPT-02	-
2	82652	1	FITTING, HYD, 45°, FNPT-02 X MNPT-02	-
3	317653	1	SENDER, TEMPERATURE	-
4	325579	1	PRESSURE SWITCH, 15PSI SPST-NO	-
5	325580	1	TEMP SWITCH, 228 DEG. F, SPST-NC	-





NOTES
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CHAPTER 6

Group--Engine

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Fuel tank Assembly.....	6.14
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Muffler Installation	6.20
Air Cleaner Installation	6.23
Radiator Installation	6.27
Charge Air Cooler.....	6-32

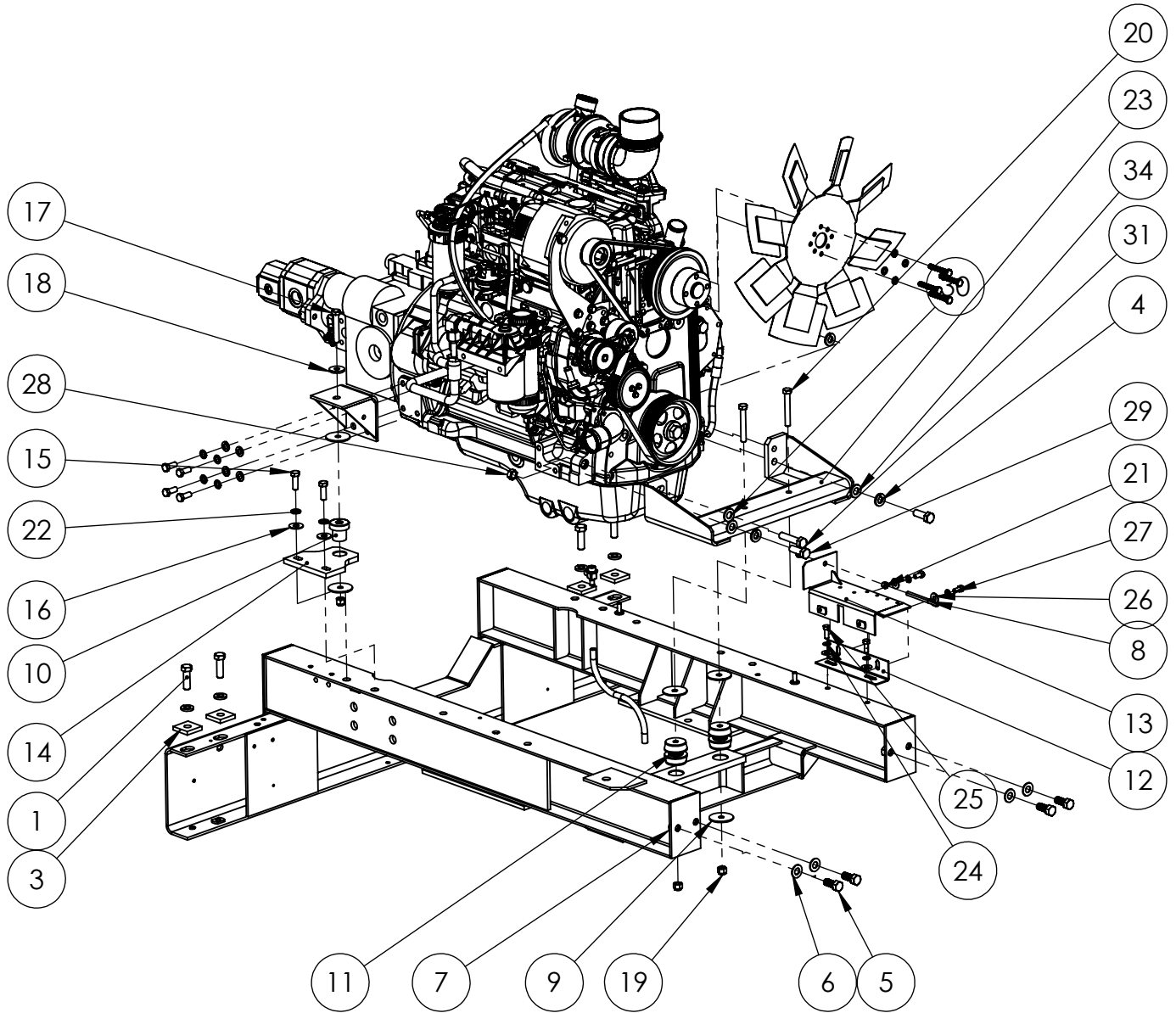
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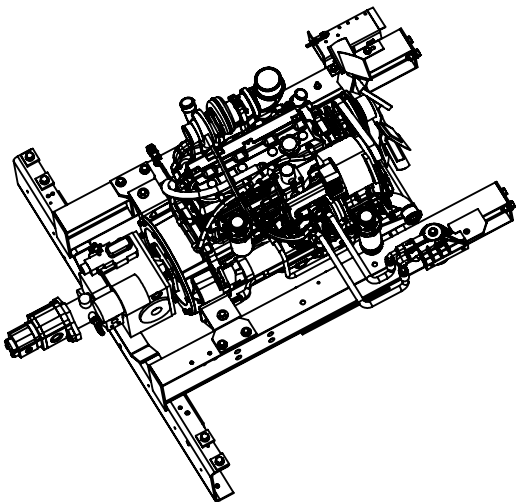
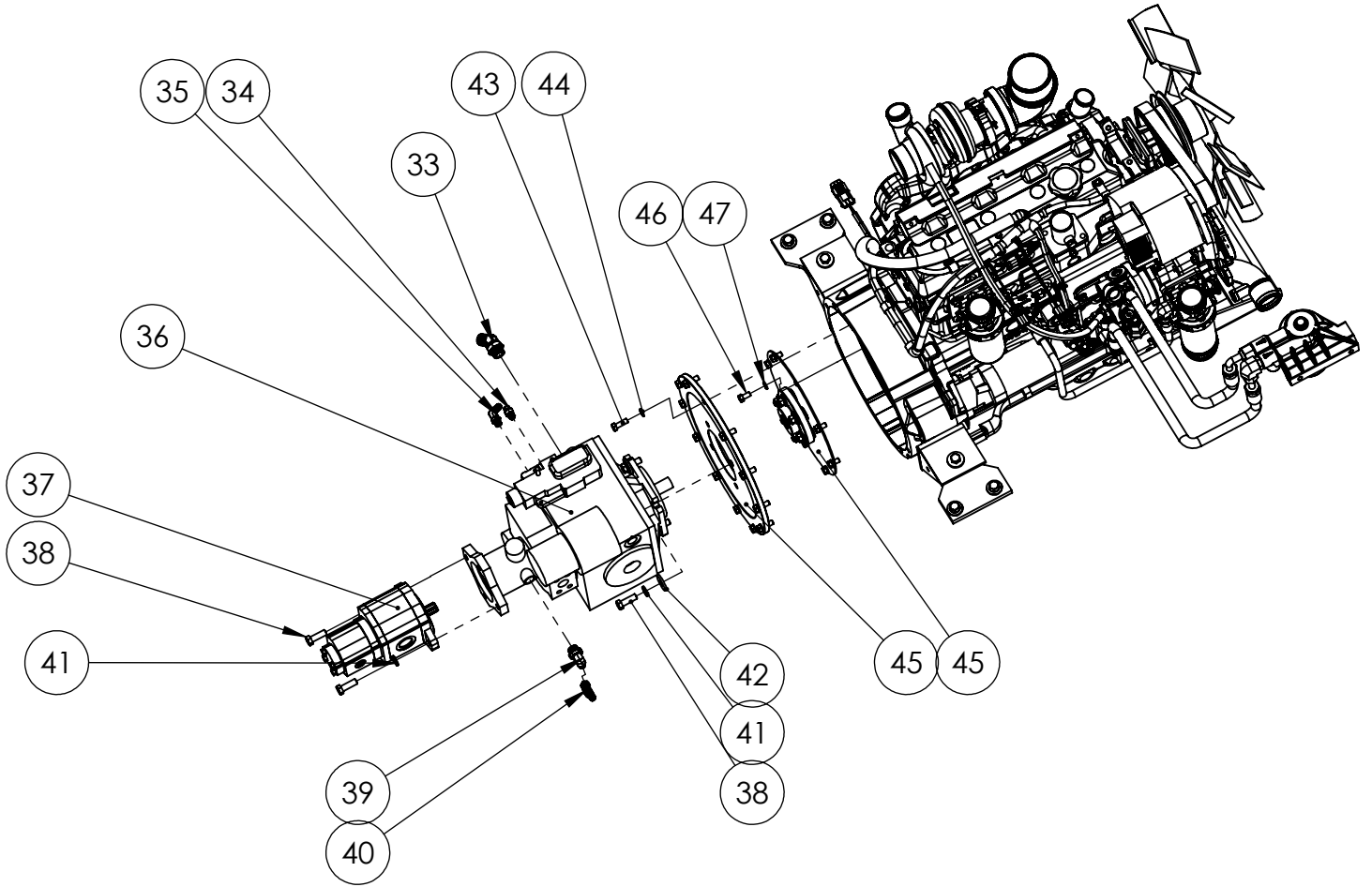
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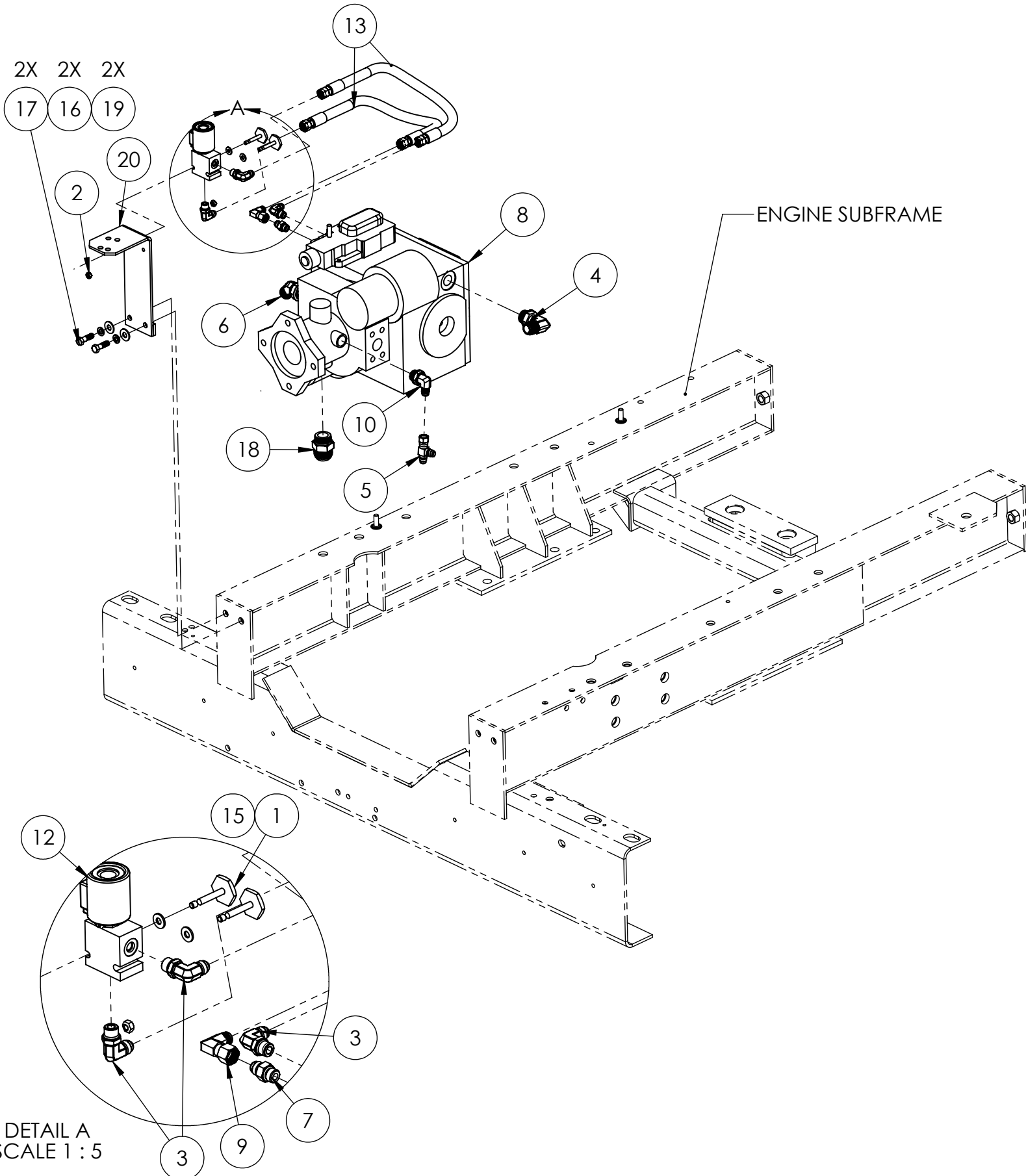


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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	305399	SCR-HX HD,PLTD,5/8-11 X 2" LG. GR8	6
2	E243450	Tower & Main Frame M3JHE3FS	1
3	353059	WASHER, 2.0 SQUARE	4
4	31146	WASHER LOCK, PLTD 5/8" ID	7
5	31457	SCR- HX HD PLTD 5/8-11X1-1/2	4
6	30558	WASHER FLAT USS PLTD 5/8 GR8	4
7	E323254	SUB-FRAME, WELDMENT, ENGINE	1
8	351091	HOOK-RAD CLAMP	1
9	E311521	WASHER ENGINE MOUNT	7
10	311167	MOUNT, RUBBER	2
11	E311506	ENGINE MOUNT, RUBBER	2
12	E313056	MOUNTING BRACKET	1
13	E320037	BRACKET WELDMENT RADIATOR LATCH	1
14	E323321	PAD, ENGINE MOUNT, FRONT	2
15	33151	SCR- HX HD 1/2-13 X 1-1/2 GR8	5
16	30595	WASHER FLAT USS PLATED 1/2" ID	4
17	32237	SCR- HX HD PLTD 1/2-13 X 3	2
18	609297	WASHER-.53 ID X 1.5 OD,7 GA	3
19	34599	NUT-NYL INSERT, PLATED, 1/2-13	4
20	33232	SCR-HX HD CAP,1/2-13X3-1/2 PL	2
21	30599	NUT-PLATED, 3/8-16 GR8	2
22	30592	WASHER- LOC, SPLT PLTD 1/2 GR8	6
23	E323269	ENGINE MT WELDMENT, REAR	1
24	30605	WASHER-LOCK,SPLIT,PLATED,3/8 GR8	13
25	34423	SCR HX HD 3/8-16X1 GR 8	2
26	30557	WASHER FL USS YELLOW 3/8 GD8	4
27	33147	BOLT, HEX HD 3/8"-16X3/4" (GR.8YZ)	10
28	303051	NUT - CONELOCK, 5/8-11 GR C	1
29	208597	SCR-HX HD,M16-2.0X45MM GR8.8	2
30	35561	WASHER FLAT SAE PLTD 5/8 GR8	3
31	53472	SCR-HX HD,5/8-11X2-3/4	1
32	E609297	WASHER-.53 ID X 1.5 OD,7 GA Special	1
33	55996	ELBOW, MB-MJ45-12	1
34	204003	CONN, MB-MJ-6	2
35	54289	ELBOW, MB-MJ90-6	2
36	247395	PUMP ASSY- ENGINE MTD	1
37	315682	GEAR PUMP-TANDEM	1
38	33151	SCR- HX HD 1/2-13 X 1-1/2 GR8	4
39	301028	EL,MB-MJ90-10-6	1
40	54681	TEE, MJ-FJX-MJ-6	1
41	30592	WASHER- LOC, SPLT PLTD 1/2 GR8	4
42	609297	WASHER-.53 ID X 1.5 OD,7 GA	4
43	124-171	BOLT M10 C X 16MM	14
44	251468	WASHER-LOCK,SPLIT,PLT,M10 GR8	20
45	312983	ASSY-FLYWHEEL/PUMP COUPLING M3	1

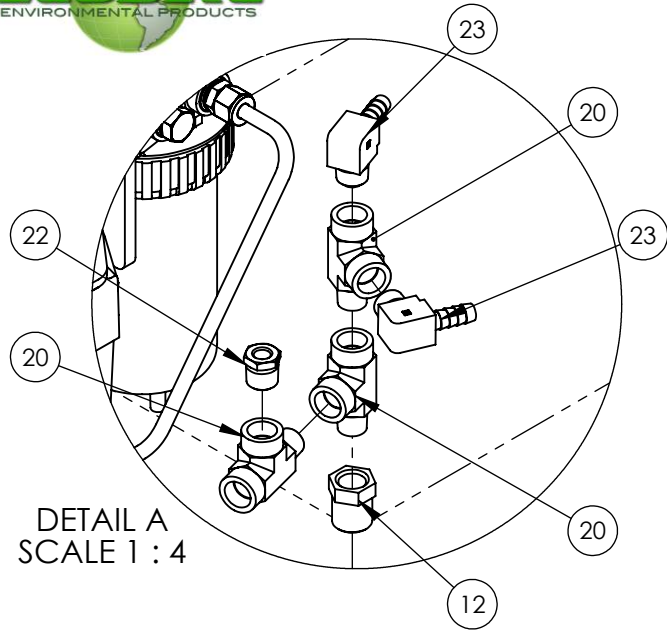




ITEM NO.	PART NUMBER	DESCRIPTION	QTY
REF	248665	PUMP TRACTION ASSY M3J3/MXJ3	REV C
1	034226	BOLT,HEX,HEAD,Ø 1/4-20-UNC x 1 3/4"LG	2
2	038896	NUT,HEX, 1/4-20-UNC, CONELOCK	2
3	054289	ELBOW, MB-MJ90-6	3
4	054471	FITTING,HYD,90°,MORB-12 X MJIC-12	1
5	054681	TEE, MJ-FJX-MJ-6	1
6	055996	FITTING,HYD,45°,MORB-12 X MJIC-12	1
7	204003	CONN, MB-MJ-6	2
8	247395	PUMP, HYDROSTATIC, 5.4/1.28, W/ EP CONT.	1
9	252013	FITTING,HYD,90°,MJIC-06 X FJIC-06	1
10	301028	FITTING,HYD,90°,MJIC-06 x MORB-10	1
12	307838	VALVE, NEUTRAL SOLENOID W/COIL	1
13	E318689	HOSE, HYD-06, 100R2, FJIC-06 X 2	2
15	609606	WASHER,FLAT,Ø 1/4",SAE NARROW	2
16	030605	WASHER,SPRING LOCK,Ø 3/8"	2
17	033139	BOLT,HEX,HEAD,3/8-16-UNC x 1 1/4"LG	2
18	301053	FITTING,HYD,STR,MORB-16 x MJIC-16	1
19	030557	WASHER,FLAT,USS,Ø 3/8"	2
20	E353545	WELDMENT, BRACKET-HYDRAULIC FILTER	1

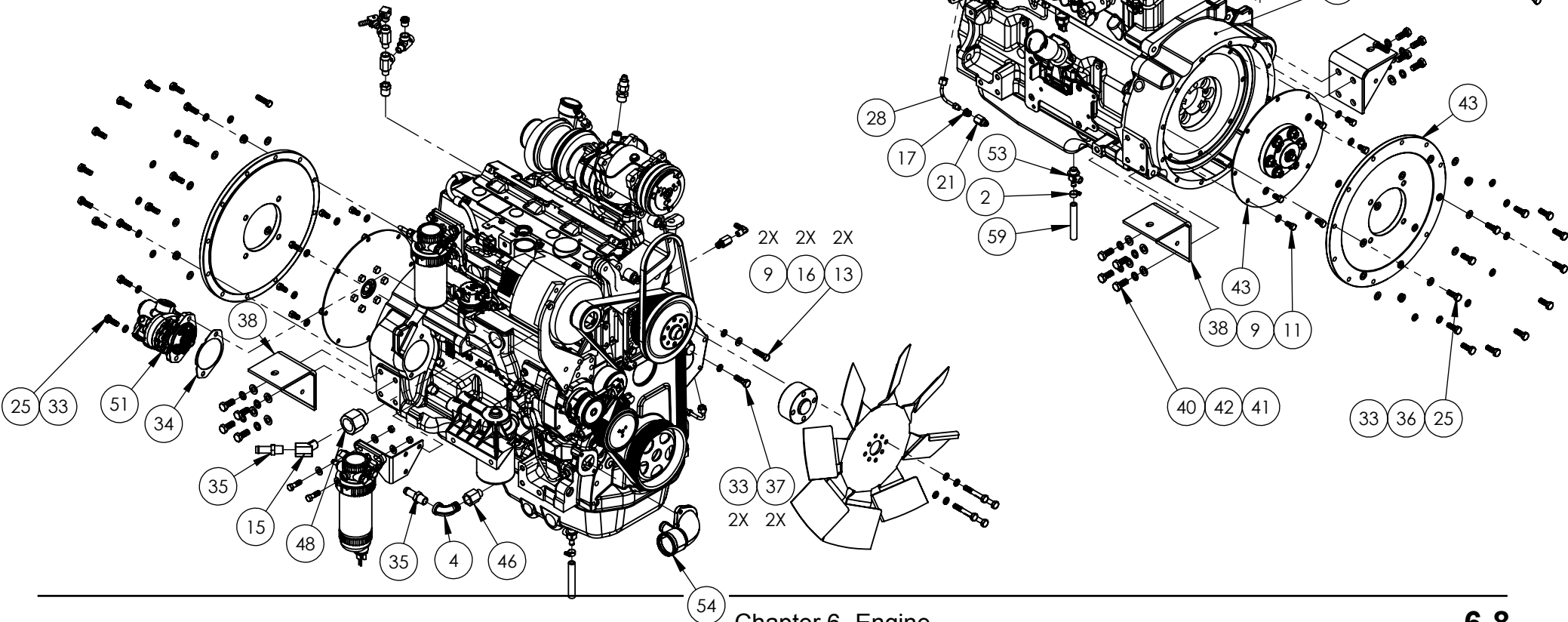
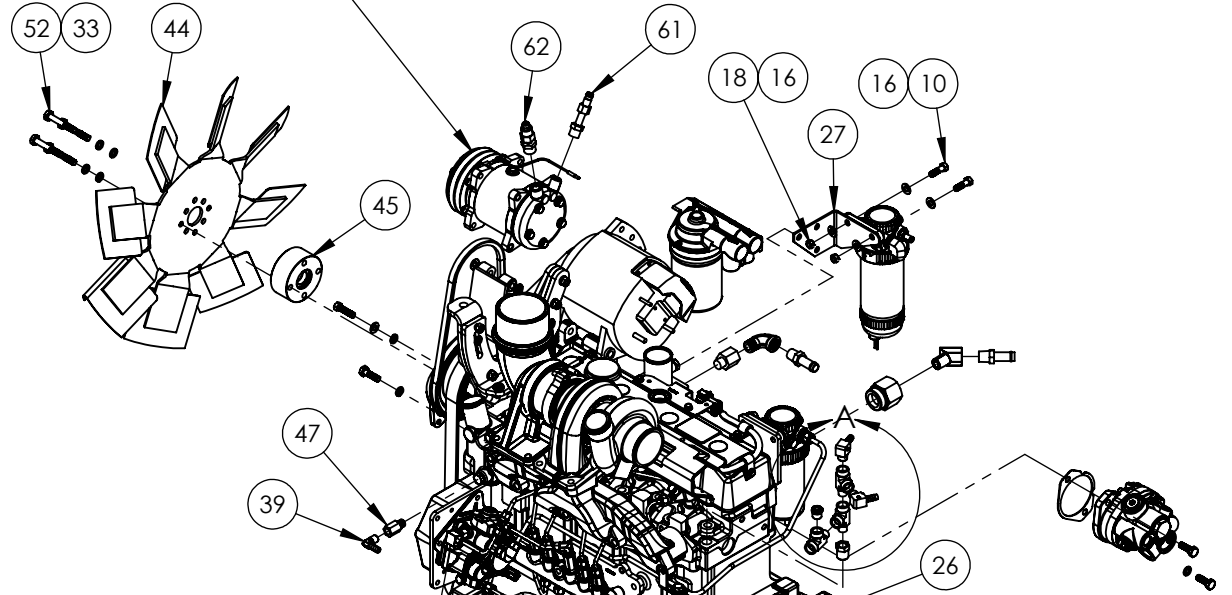


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DETAIL A
SCALE 1 : 4

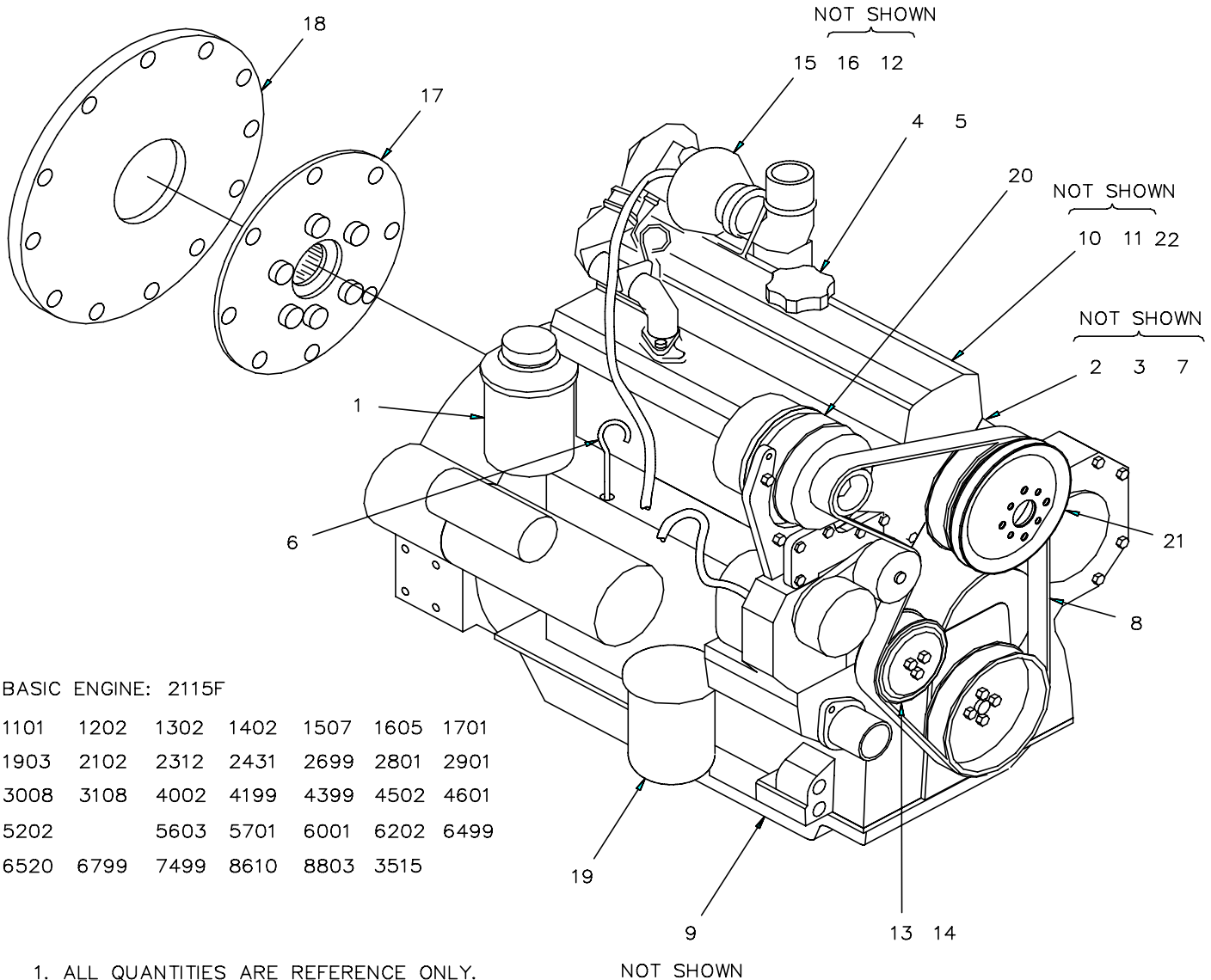
A/C COMPRESSOR



ITEM NO.	PART NUMBER	DESCRIPTION	QTY
REF	248662	ENGINE ASSEMBLY, M3	REV C
1	896808	REFRIDGERANT, R-134	3
2	501-1	HOSE CLAMP Ø11-16MM	1
4	024119	FITTING, HYD, 90°, MNPT-08 X FNPT-08(1/2"), GALV.	1
9	030605	WASHER, SPRING LOCK, Ø 3/8"	16
10	033139	BOLT, HEX, HEAD, 3/8-16-UNC x 1 1/4" LG	2
11	033147	BOLT, HEX, HEAD, 3/8-16-UNC x 3/4" LG	8
12	033985	PIPE BSHG, MP-FP-8-6	1
13	034422	BOLT, HEX, HEAD, 3/8-16-UNC x 1 1/2" LG	2
14	034425	NUT, HEX, 3/8-16-UNC, HEAVY	7
15	035563	FITTING, HYD, 45°, MNPT-08(1/2") X FNPT-08(1/2")	1
16	038266	WASHER, FLAT, Ø 3/8", SAE NARROW	10
17	46104	FITTING, HYD, STR, FNPT-02(1/8") X MNPT-04	1
18	046828	NUT, HEX, 3/8-16-UNC, CONELOCK, PLATED	2
20	82030	HYD. FITTING MALE RUN TEE (MNPT-06/FNPT-06x2)	3
21	82509	FITTING, HYD, STR, MJIC-06 X FNPT-04(1/4")	1
22	82653	FITTING, HYD, STR, MNPT-06XFNPT-02	1
23	82654	FITTING, HYD, 90°, MNPT-06XBARB-06	2
25	124-171	BOLT, HEX HEAD, M10x1.5x30mm lg.	14
26	247394	ENGINE, DIESEL, JD 4045HF285 TIER 3	1
27	E247434	HOLDER, FUEL FILTER	1
28	247454	FUEL OUTLET, JD ENGINE, 1/8" NPT	1
33	251468	WASHER, SPRING LOCK, Ø M10	22
34	305305	GASKET	1
35	309468	HOSE FITTING, 5/8 HOSE X 1/2 MP	2
36	310156	WASHER, FLAT, Ø M10	14
37	310157	BOLT, HEX HEAD, M10x1.5x35mm lg.	2
38	E311524	BRACKET WELDMENT, REAR ENGINE MOUNT	2
39	311714	FTG-90 DEG, 1/4" NPT X 3/8" HOSE	1
40	312457	BOLT, HEX HEAD, M12x1.75x30mm lg.	8
41	312684	WASHER, FLAT, Ø M12	8
42	312685	WASHER, SPRING LOCK, M12	8
43	312983	FLYWHEEL/PUMP COUPLING ASSEMBLY EJECTOR	1
44	313192	FAN, V3000 SERIES, JD ENGINE SPACER FAN, 3JD	1
45	E319055	FITTING, HYD, STR, FNPT-08 X MM-18	1
46	319057	FITTING HYD, STR, MALE M14-1.5XFNPT-04	1
47	319074	FITTING, HYD, STR, MORB-20 X FNPT-16	1
48	319084	POWER STEERING PUMP, M3	1
51	332160	BOLT, HEX HEAD, M10x1.5x65mm lg.	1
52	319576	DRAIN VALVE	4
53	320933	COOLANT INLET WELDMENT, JD ENGINE	1
54	E326825	HOSE 3/8 ID X 15" LG	1
59	891217015		1
60	896552	OIL 15W-40	1
61	375273	ADAPTER #8 AC	1
62	375272	ADAPTER #10 AC	1



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BASIC ENGINE: 2115F

1101	1202	1302	1402	1507	1605	1701
1903	2102	2312	2431	2699	2801	2901
3008	3108	4002	4199	4399	4502	4601
5202		5603	5701	6001	6202	6499
6520	6799	7499	8610	8803	3515	

1. ALL QUANTITIES ARE REFERENCE ONLY.
NOTES: UNLESS OTHERWISE SPECIFIED.

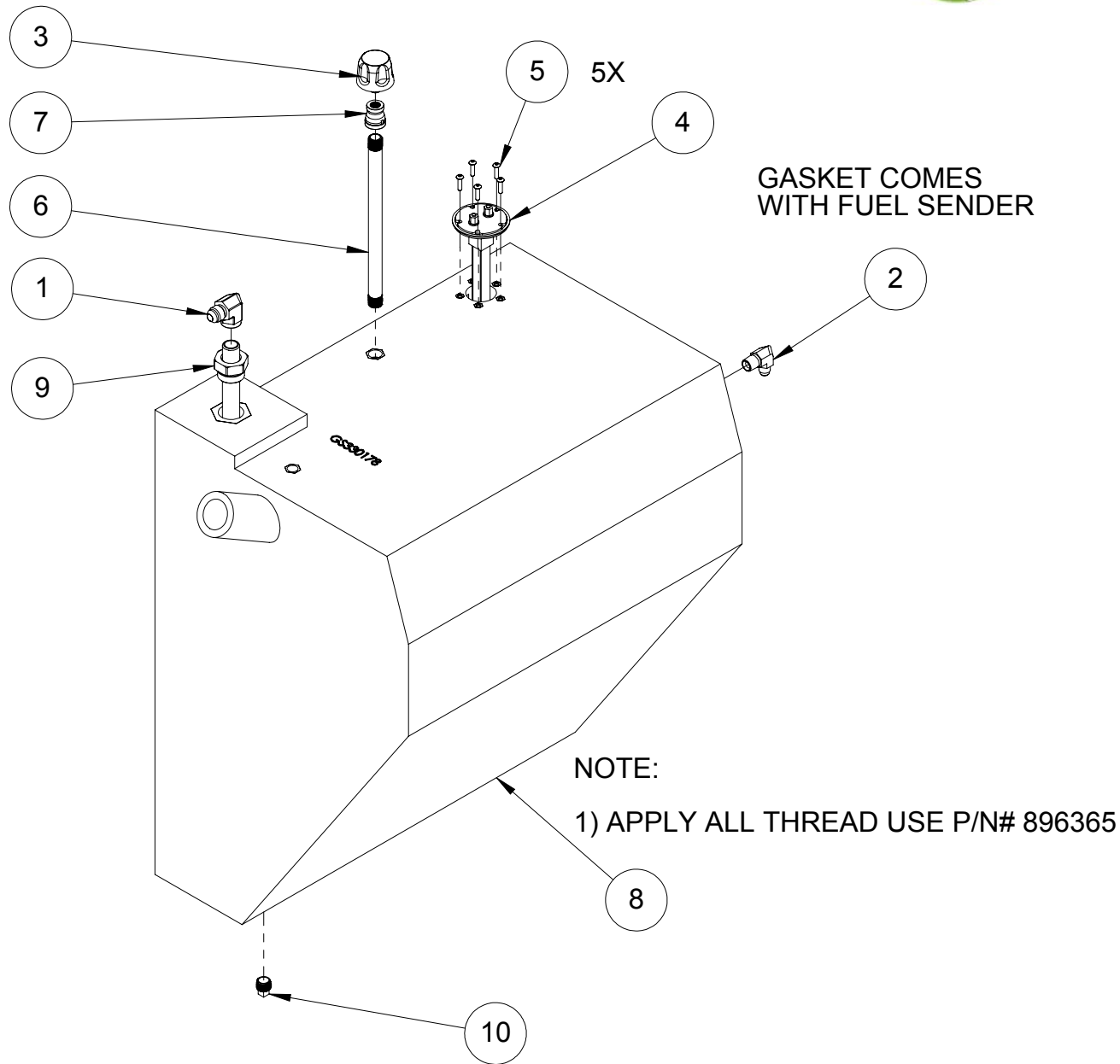


CHAPTER 6

Item	Pt No.	Description	Qty
-	247394	ENG-JOHN DEERE TIER3 4045HF285 H Ref	
Item	Part No.	Description	QTY
1	382750	V-BELT, JD	
2	382751	WATER PUMP, JD	
3	382752	CLUTCH KIT, A/C COMPRESSOR JD	
4	382772	BELT-ALTERNATOR/AC, SERPENTINE	
5	382842	TUBE, DIPSTICK JOHN DEERE	
6	382843	DIPSTICK, JOHN DEERE	
7	382898	A/C COMPRESSOR, JOHN DEERE	



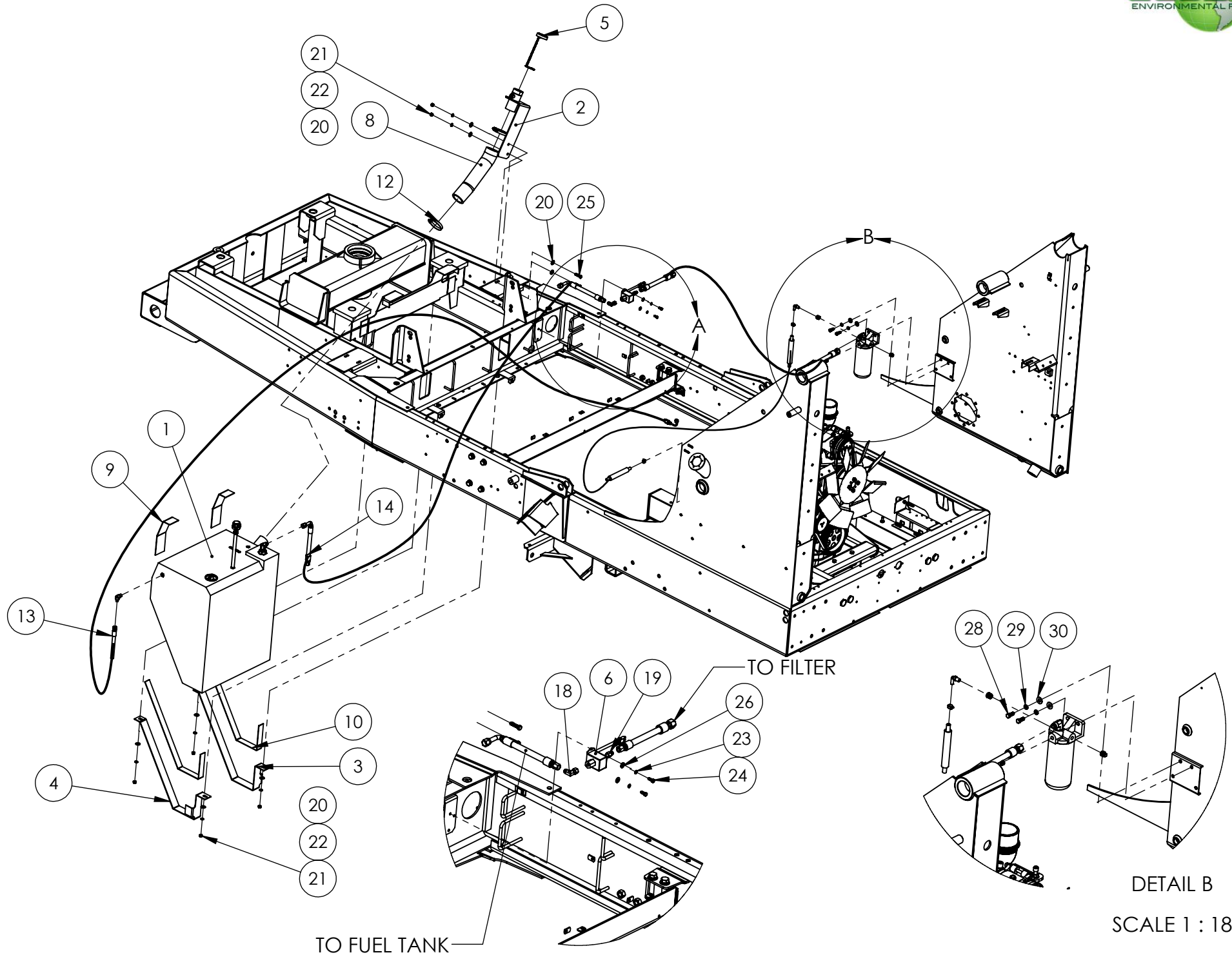
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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
REV C	248573	FUEL TANK ASSY, JD 3000	
1	329848	ELBOW-90 DEG, MJ-FNPT-8-8	1
2	033911	FITTING,HYD,STR,MNPT-06 X MJIC-06	1
3	045147	BREATHER, FILTER,MNPT-04(1/4")	1
4	E317112	SENDER, FUEL, RE-WORK (N)	1
5	317677	SCREW,BUTTON HEAD,SOCKET CAP,#10-32-UNC X 3/4" LG	5
6	323750	FITTING , HYD., STR, MNPT -6(3/8") x 2 x 10"Lg. NIPPLE	1
7	323751	FITTING,HYD,STR, FNPT-06(3/8") X FNPT-04(1/4"),GALV	1
8	330178	FUEL TANK, M3, PLASTIC	1
9	355147	HEX HEAD FUEL, WELDMENT	1
10	030251	FITTING,PLUG,SQUARE HEAD,MNPT-06 (3/8"),GALV.	1



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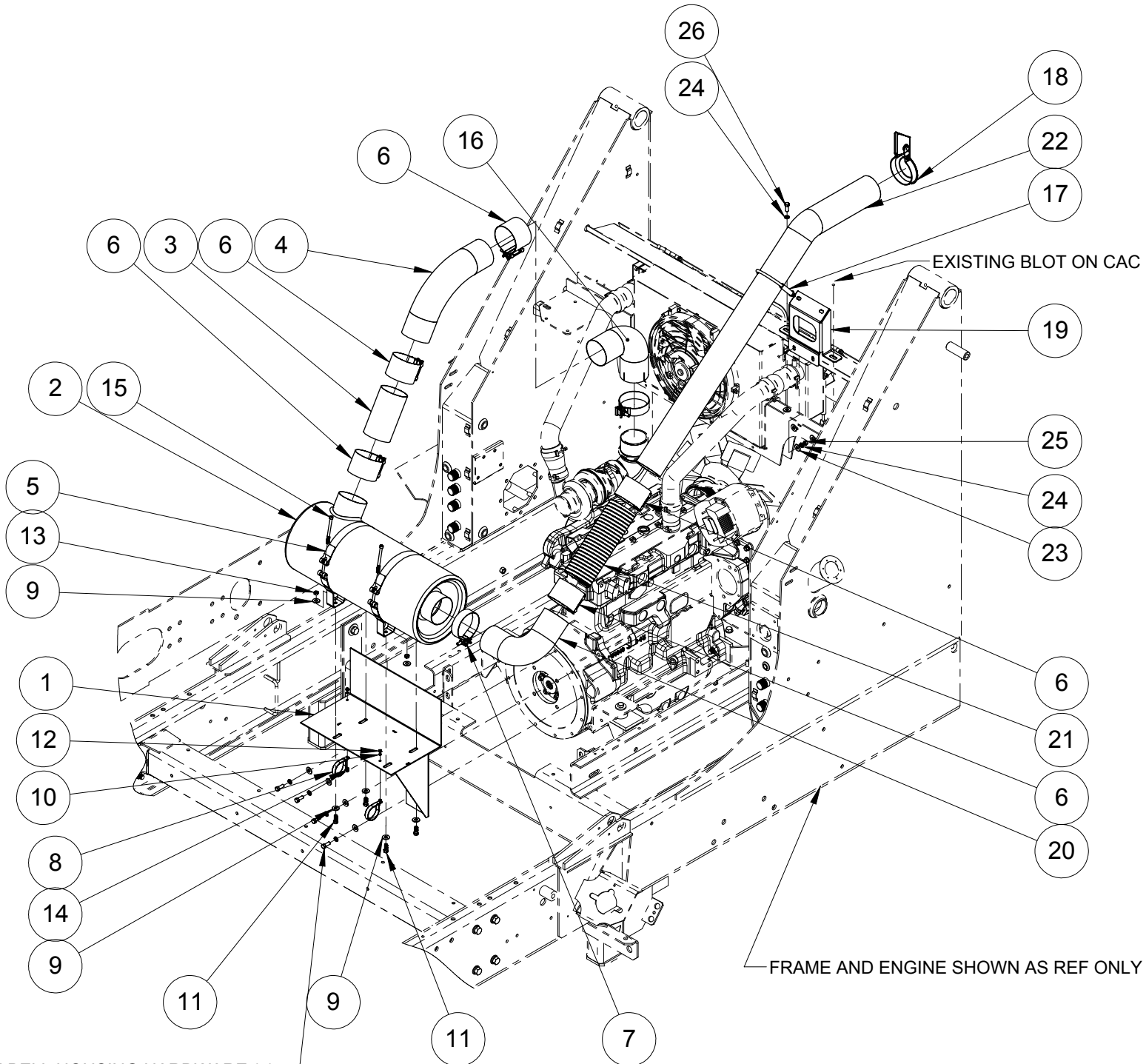


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
REF	247958	FUEL TANK INSTL-M3J3/MXJ3	REV C
1	248573	FUEL TANK ASS'Y, 3000 JD TIER3	1
2	325187	FUEL FILL, WELDMENT	1
3	E325216	FUEL TANK STRAP (RH)	1
4	E325217	FUEL TANK STRAP (LH)	1
5	332548	FUEL CAP, CHAINED	1
6	E327215	FUEL PUMP ASS'Y	1
7	896974	ADHESIVE SPRAY, 3M	1
8	E896556015	HOSE 2-1/4 ID X 15" LG	1
9	E896973012	RUBBER STRIP 1/8 X 3.0 X 12	2
10	E896975032	RUBBER STRIP 1/8" X 1.5" X 32"	2
11	501-1	HOSE CLAMP Ø11-16MM	2
12	026485	CLAMP,HOSE,Ø2-1/2",GEAR TYPE,(2-1/16@3)	2
13	324539	HOSE ASSY 3/8 ID X 182.0 CUT	1
14	E324340	HOSE,HYD-08,100R1,FJIC-06XFJIC90°(L)-08	1
15	E324540	HOSE, HYD-08, 100R1, FJIC-06 X FJIC-10	1
16	E896080100	HOSE 5/16 ID	1
17	E896615100	SLEEVE-NYLON .90 ID	1
18	252013	FITTING,HYD,90°,MJIC-06 X FJIC-06	1
19	324377	FITTING,HYD,STR,MJIC-06 X MNPT-02(1/8")	1
20	030557	WASHER,FLAT,USS,Ø 3/8"	8
21	030599	NUT, HEX, 3/8-16-UNC	6
22	030605	WASHER,SPRING LOCK,Ø 3/8"	6
23	030643	WASHER,SPRING LOCK,Ø 1/4"	2
24	033145	BOLT,HEX,HEAD,Ø 1/4-20-UNC x 3/4"LG	2
25	034422	BOLT,HEX,HEAD,3/8-16-UNC x 1 1/2"LG	2
26	035605	WASHER,FLAT,Ø 1/4",USS,(3/4" O.D.)	2



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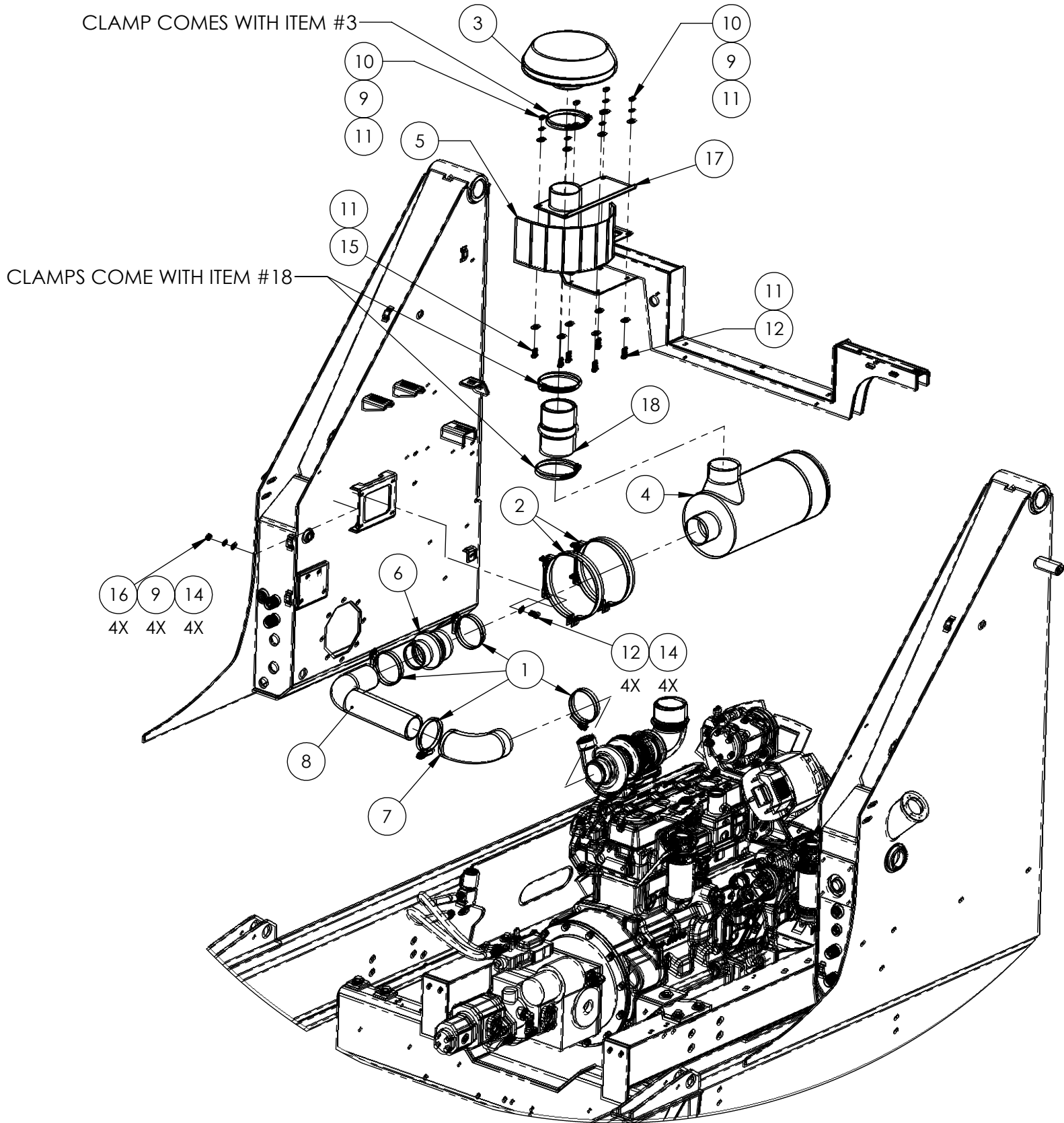
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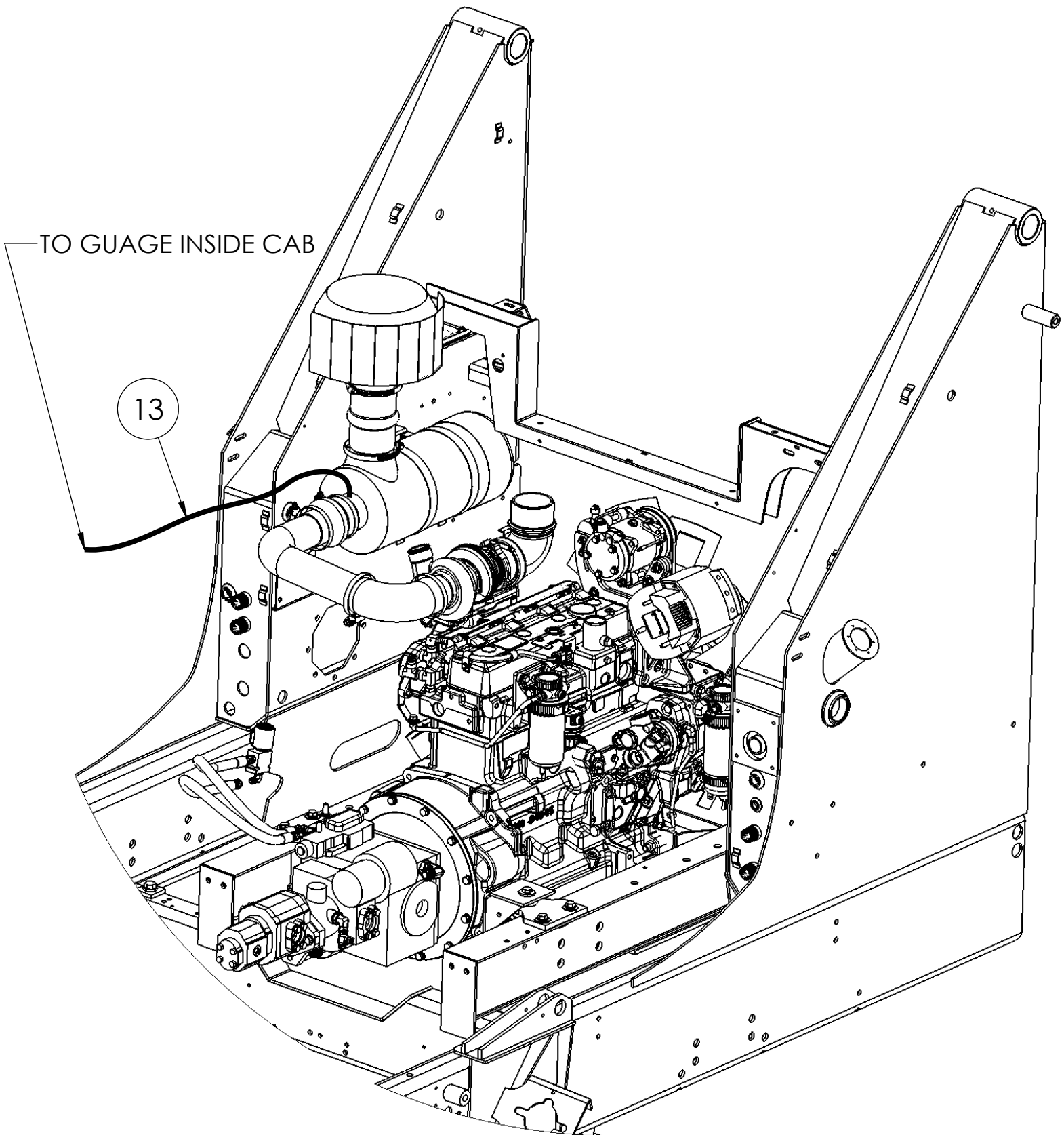


ITEM NO.	PART NUMBER	DESCRIPTION	QTY
REV A	329998	MUFFLER INSTALLATION	
1	E311033	BRACKET, MOUNTING, MUFFLER	1
2	311318	MUFFLER	1
3	E322324	TUBE, 4.0 OD X 7.0	1
4	896548017	FLEX HOSE METAL, 4" ID X 17" LONG, SS	1
5	307116	CLAMP-10.56 ID	2
6	311428	CLAMP, EXHAUST Ø4" LAP JOINT ALUMINIZE	5
7	E354125	CLAMP, EXHAUST Ø4" ACCUSEAL ALUMINIZED	2
8	609020	CLAMP,CUSHIONED LOOP,Ø2 1/8	2
9	30557	WASHER,FLAT,USS,Ø 3/8"	8
10	36645	WASHER,FLAT,Ø #10,SAE NARROW	2
11	34423	BOLT,HEX,HEAD,3\8-16-UNC x 1" LG. GR8	4
12	36860	NUT, KEPS #10-24 (ZP)	2
13	46828	NUT,HEX, 3/8-16-UNC,CONELock,PLATED	4
14	99335	SCREW,PAN HEAD,FLAT DRIVE,#10-24-UNC X 1/2" LG.	2
15	326096	SCREW,SOCKET HEAD CAP,5/16-18 UNC X 4" LG.	2
16	311830	ELBOW-90 DEG EXHAUST	1
17	207065	U-BOLT, EXHAUST Ø4"PIPE, 360°(3/8"-16)ZP	1
18	E302021	RAIN CAP 4"	1
19	329991	BRACKET-SUPPORT, MUFFLER	1
20	311429	ELBOW 90DEG SHORT RADIUS	1
21	896548012	FLEX TUBING, EXHAUST PIPE	1
22	329990	EXHAUST PIPE, OUTLET	1
23	30557	WASHER FLAT USS PLATED 3/8	6
24	30605	WASHER-LOCK,SPLIT,PLATED,3/8 GR8	4
25	30599	NUT-PLATED, 3/8-16 GR8	2
26	34423	SCR HX HD 3/8-16X1 GR 8	2



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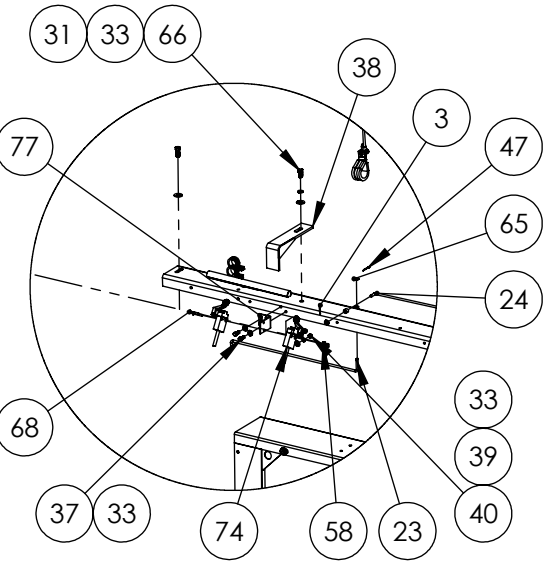




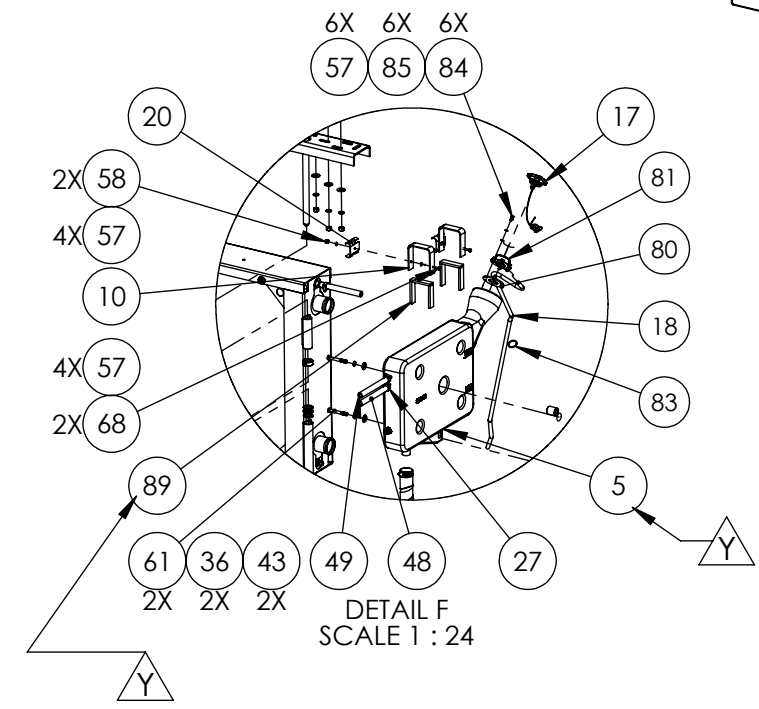
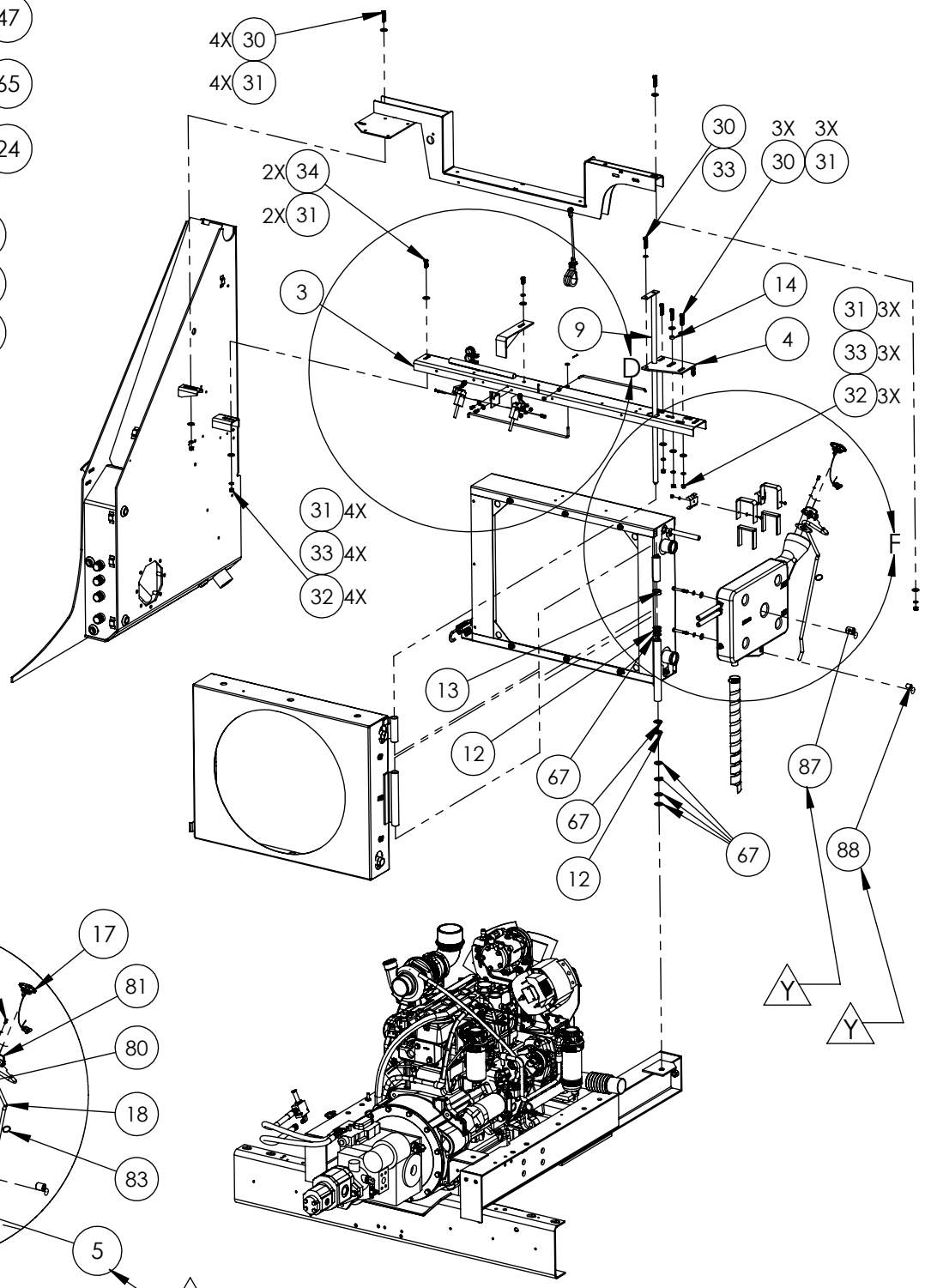
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
REF	247409	AIR CLEANER INSTALLATION	REV A
1	323515	CLAMP, CONSTANT TORQUE, 3.25" - 4.125"	4
2	311403	CLAMP 8." DIA	2
3	325478	Air-Intake option	1
4	311399	AIR FILTER ASSEMBLY	1
5	E247976	DEFLECTOR, AIR FILTER, 3000 JD TIER3	1
6	311401	REDUCER HUMP	1
7	331508	ELBOW-90 DEG. AIR INTAKE, (REWORK)	1
8	331507	TUBE, AIR INTAKE, M3JD	1
9	030373	WASHER, SPRING LOCK, Ø 5/16"	10
10	030617	NUT, HEX, 5/16-18-UNC	6
11	030489	WASHER, FLAT, Ø 5/16", USS, WIDE, 7/8" O.D.	12
12	031433	BOLT, HEX, HEAD, 5/16-18-UNC x 1" LG	8
13	896112286	HOSE - RUBBER 5/32 ID X 286 LG	1
14	651420	WASHER, FLAT, Ø 5/16", SAE NARROW, 11/16" O.D.	8
15	030483	BOLT, HEX, HEAD, 5/16-18-UNC x 3/4" LG	2
16	023559	NUT, HEX, NYLON LOCK, 5/16-18-UNC	4
17	331458	BRKT-NECK, AIR CLEANER, WLDMT	1
18	331509	SILICON, HUMP HOSE, 3.75 ID X 6.0 LG.	1



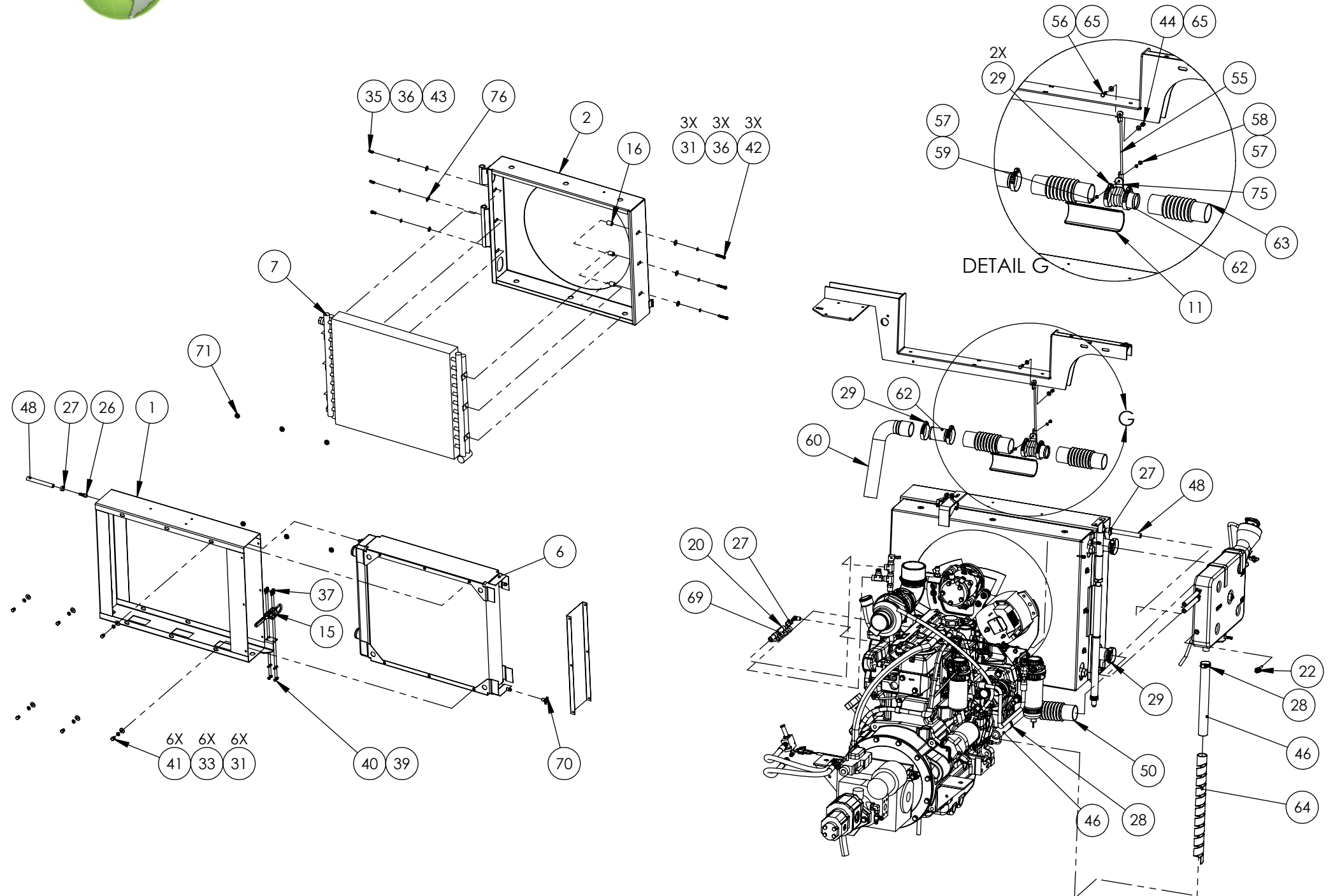
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DETAIL D
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DETAIL F
SCALE 1 : 24



RADIATOR & SHROUD INSTL



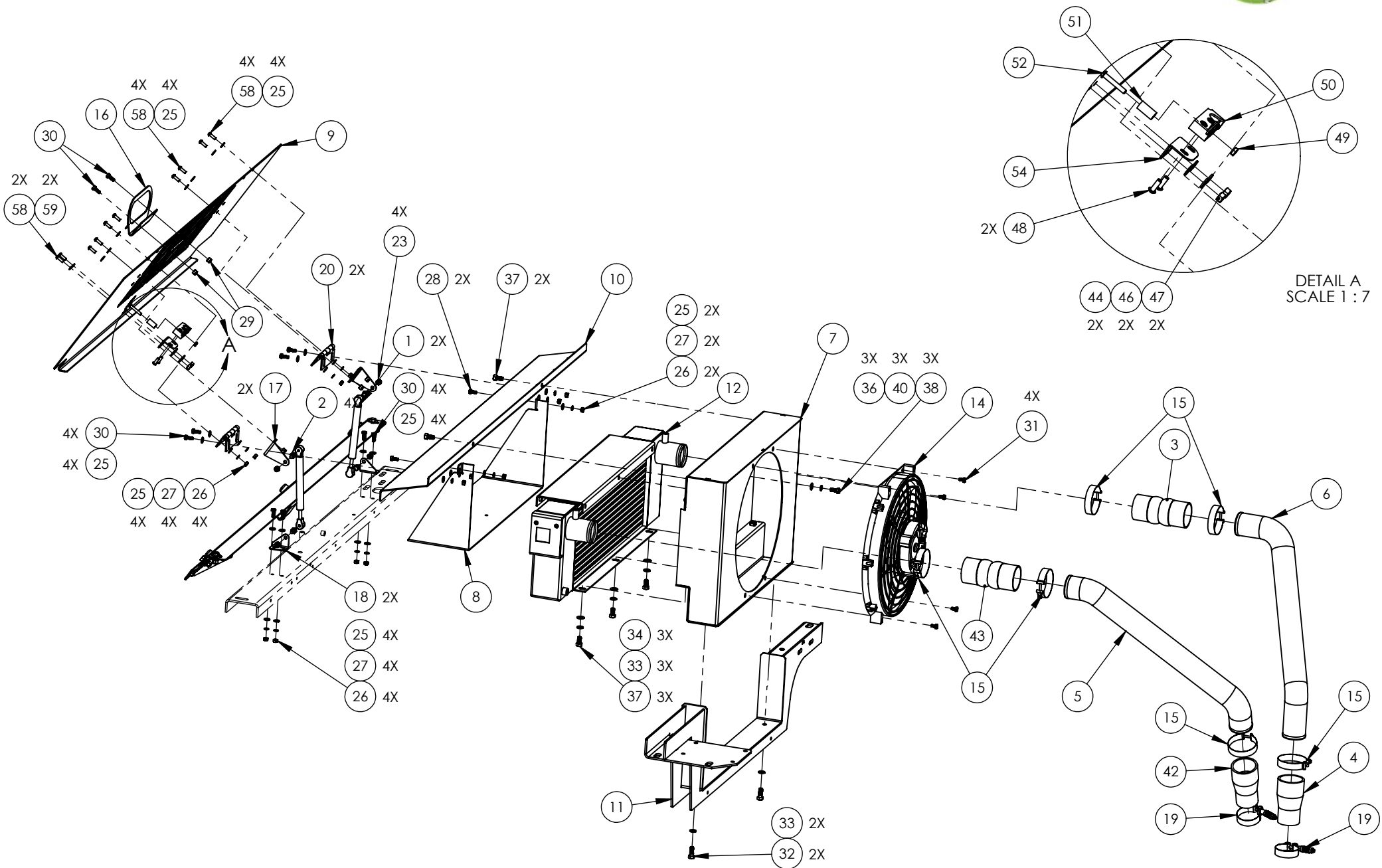
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
REF	332114	RADIATOR & SHROUD INSTL	REV A
1	318981	RADIATOR SHROUD WELDMENT	1
2	E318979	SHROUD, OIL COOLER WELDMENT	1
3	318985	PLATE-CHANNEL, SUPPORT RADIATOR WELDMENT	1
4	326363	PLATE, RADIATOR ADJUSTER	1
5	329708	DEAERATION TANK, POLY	1 
6	313080	RADIATOR	1
7	302713	OIL COOLER	1
9	E318127	SHAFT WELDMENT, PIVOT	1
10	325330	BRACKET, CLAMP	2
11	320826	HOSE PROTECTOR 8 "	1
12	E312871	THRUST BUSHING DELRIN 3/4 BORE	2
13	350761	SHAFT COLLAR	1
14	E312230	TUBE, SPACER	1
15	E351089	CLAMP REWORK	1
16	319031	ACTUATOR RET SPCR,SHORT,GB	3
17	E326313	RADIATOR CAP, 7PSI, SECURED	1
18	896617070	HOSE OVERFLOW, 5/16 ID	1
20	325331	CLAMP PARALLEL 5/8 - 3/4- PLASTIC	4
22	353996	LEVEL SENSOR	1
23	E309158	ROD - HOLDER	1
24	E351021	ROD BENT	1
26	305225	NIPPLE (MNPT-4/BARB-6)	1
27	353051	CLAMP, GEAR DIA. 3/8@5/8, HS-6	4
28	215108	CLAMP,HOSE,Ø1",GEAR TYPE,(11/16@1-1/2)	2
29	327126	CLAMP,HOSE, Ø3/8",GEAR TYPE,(3/8@5/8),WITH LINER	8
30	034422	BOLT,HEX,HEAD,3/8-16-UNC x 1 1/2"LG	6
31	030557	WASHER,FLAT,USS,Ø 3/8"	21
32	030599	NUT, HEX, 3/8-16-UNC	6
33	030605	WASHER,SPRING LOCK,Ø 3/8"	18
34	034423	BOLT,HEX,HEAD,3\8-16-UNC x 1" LG. GR8	2
35	030483	BOLT,HEX,HEAD,5/16-18-UNC x 3/4"LG	3
36	030373	WASHER,SPRING LOCK,Ø 5/16"	8
37	033145	BOLT,HEX,HEAD,Ø 1/4-20-UNC x 3/4"LG	6
38	E324845	ANGLE, STOP PLATE-BENT WELDMENT	1
39	030643	WASHER,SPRING LOCK,Ø 1/4"	6
40	030703	NUT, HEX, 1/4-20-UNC	6
41	040337	BOLT,HEX,HEAD,3/8-16-UNC x 1/2"LG	7
42	050208	BOLT,HEX,HEAD,5/16-18-UNC x 1 3/4"LG	3
43	030489	WASHER,FLAT,Ø 5/16",USS,WIDE,7\8" O.D.	4
44	203375	NUT,HEX,NYLON LOCK,1/4-20-UNC	1
46	E891474055	HOSE RUBBER 1" ID X 55" LG, RED	2
47	024669	PIN-COTTER, 1/16X 1/2	2
48	E891217038	HOSE,BLUE,LOCK-ON,3/8" I.D.,300 PSI,R3"	2
49	E891217060	HOSE,BLUE,LOCK-ON,3/8" I.D.,300 PSI,R3"	1

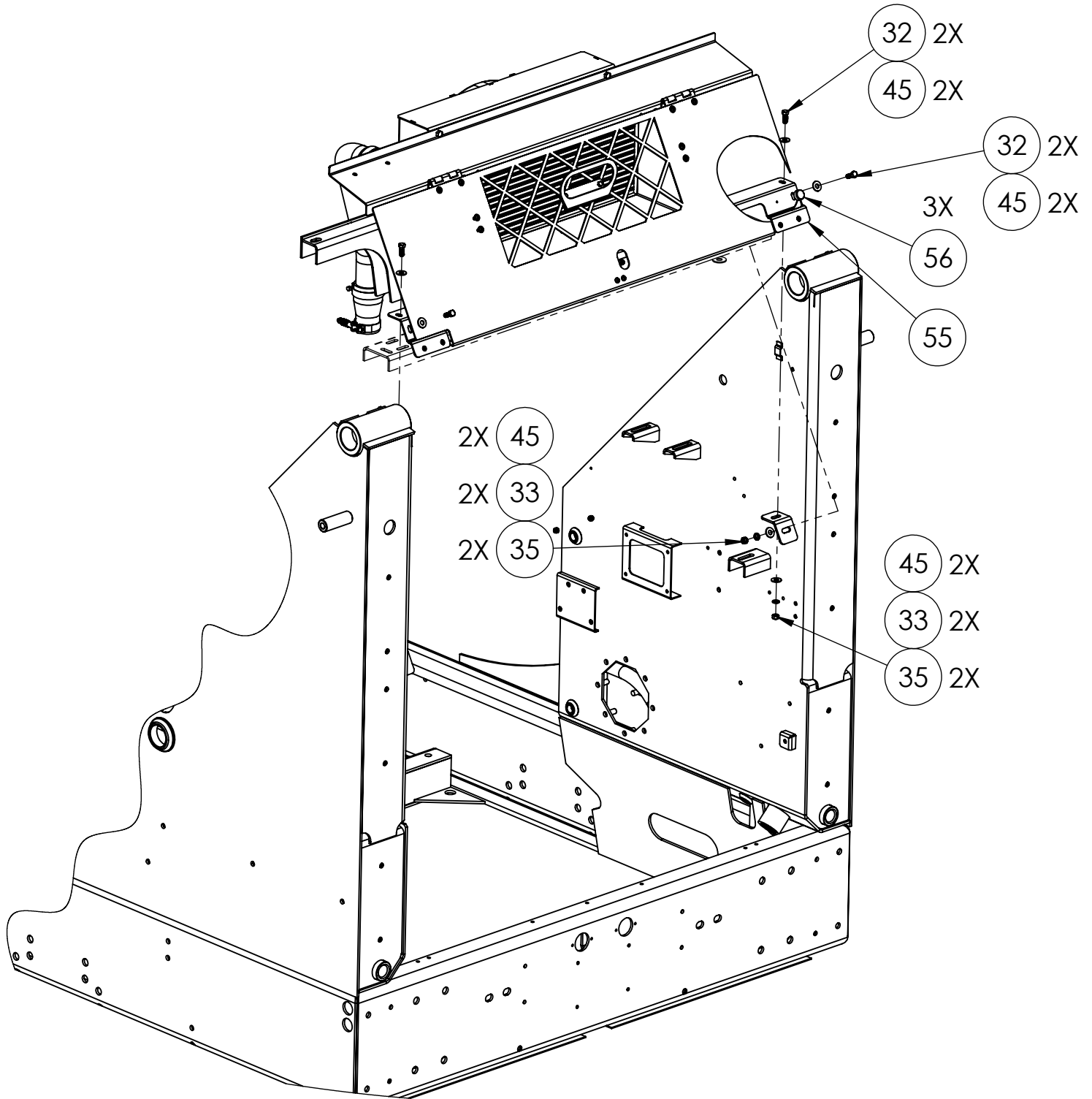
50	381905	RADIATOR HOSE, RWK	1	
55	308815	CABLE ASS'Y	1	
56	033125	BOLT,HEX,HEAD,Ø 1/4-20-UNC x 1"LG,GR.8,GOLD ZINC	1	
57	036645	WASHER,FLAT,Ø #10,SAE NARROW	12	
58	036860	NUT, KEPS #10-24 (ZP)	5	
59	900081	SCREW,PAN HEAD,CROSS DRIVE,#10-32-UNF X 1" LG.	1	
60	319536	RADIATOR HOSE, 1 3/4" TO 2"	1	
61	033147	BOLT,HEX,HEAD,5/16-18-UNC x 2 1/2"LG	2	△
62	E306605	TUBE SWEDGED	2	
63	313022	HOSE, RADIATOR, 2" ID X 20" LG	2	
64	E18009-6055	TUBING-SPIRAL WRAP, BLACK, 1" X 55"	1	
65	609606	WASHER,FLAT,Ø 1/4",SAE NARROW	5	
66	033147	BOLT,HEX,HEAD,3/8-16-UNC x 3/4"LG	1	
67	550691	ROUND,SHIM	7	
68	038198	SCREW,PAN HEAD,CROSS DRIVE,#10-32-UNF X 1" LG.	4	
69	E891217028	HOSE,BLUE,LOCK-ON,3/8" I.D.,300 PSI,R3"	1	
70	030351	DRAIN COCK,MNPT-04(1/4"),BRASS	1	
71	900071	grommet AM931-6-10	6	
72	E896451036	SLIT FLEX TUBE .75 ID X 36" LG	1	
73	353043	Clamp,Loop Ø3/4",G12,5/16Bolt	2	
74	316139	SWITCH-SIDE ROTARY	2	
75	609020	CLAMP LOOP DG 34	1	
76	E324355	WASHER, SPECIAL	1	
77	316131	BRACKET- RADIATOR LOCKOUT SW	1	
78	E307297	CHANNEL - SHROUD	1	
79	330136	HOSE NIPPLE, 1/8" NPT - 3/8" HOSE	2	
80	330842	GASKET, FILLER NECK	1	
81	330062	DEAERATION TANK FILLER NECK	1	
82	030243	PLUG PIPE 1/4 SQ HD BLACK PIPE	1	
83	301764	RING, SPLIT, 0.932"ID X 1.10" OD (ZP)	1	
84	036646	BOLT,HEX,HEAD,Ø #10-32-UNF x 1/2"LG	6	
85	035604	WASHER,SPRING LOCK,Ø #10	6	
87	E327553	TUBE SUPPORT, COVER CYLINDER	1	
88	331147	CLEARANCE TUBE	1	△
89	89668209	SPNG RBR STRIP 1/4X3/4 .08334 X 9" LG	2	△



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CHARGE AIR COOLER ASSY





CHARGE AIR COOLER ASSY



ITEM NO.	PART NUMBER	DESCRIPTION	QTY
REF	247359	CAC ASSEMBLY	REV E
1	62455	GAS SPRING	2
2	317657	BALL STUD, 5/16-18UNC	4
3	E247360	HUMP HOSE, BLUE, 2.5 " ID	1
4	E247361	HUMP REDUCER, BLUE SILICONE, 2.5" TO 2.0"	1
5	E247362	PIPE, CAC, IN	1
6	E247363	PIPE, CAC, OUT	1
7	E247365	SHROUD, CAC, JD	1
8	331385	CHUTE, CAC	1
9	331381	GRILLE, CAC	1
10	E247368	TOP COVER, CAC	1
11	247369	MOUNTING BRACKET CAC SHROUD, WLDMT	1
12	E247370	CAC, JD	1
14	247445	FAN, PUSHER	1
15	247446	CLAMP, HOSE, T-BOLT, SPRING, 2.75 @ 3.06 GRIP	6
16	E247447	BRACKET, MOUNTING, STOP LIGHT	1
17	E247448	BRACKET, MOUNTING, GAS SPRING	2
18	E247449	BRACKET, MOUNTING, GAS SPRING	2
19	329713	CLAMP, HOSE, T-BOLT 2.25-2.56	2
20	353109	HINGE 3" STAINLESS STEEL (N)	2
23	023559	NUT, HEX, NYLON LOCK, 5/16-18-UNC	4
25	609606	WASHER, FLAT, Ø 1/4", SAE NARROW	31
26	030703	NUT, HEX, 1/4-20-UNC	14
27	030643	WASHER, SPRING LOCK, Ø 1/4"	14
28	026205	BOLT, HEX, HEAD, Ø 1/4-20-UNC x 5/8" LG	2
29	203375	NUT, HEX, NYLON LOCK, 1/4-20-UNC	6
30	033145	BOLT, HEX, HEAD, Ø 1/4-20-UNC x 3/4" LG	10
31	031428	BOLT, HEX, HEAD, Ø 1/4-20-UNC x 1/2" LG	4
32	034423	BOLT, HEX, HEAD, 3/8-16-UNC x 1" LG. GR8	6
33	030605	WASHER, SPRING LOCK, Ø 3/8"	9
34	038266	WASHER, FLAT, Ø 3/8", SAE NARROW	3
35	030599	NUT, HEX, 3/8-16-UNC	4
36	455-10	WASHER, FLAT, Ø M8	3
37	033147	BOLT, HEX, HEAD, 3/8-16-UNC x 3/4" LG	5
38	124-135	BOLT, HEX HEAD, M8x1.25x20mm lg.	3
40	381674	WASHER, SPRING LOCK, Ø M8	3
42	247361H	HUMP REDUCER HOT, ORANGE SILICONE, 2.5" TO 2.0"	1
43	247360H	HUMP HOSE HOT, 2.5 " ID	1
44	651420	WASHER, FLAT, Ø 5/16", SAE NARROW, 11/16" O.D.	2
45	030557	WASHER, FLAT, USS, Ø 3/8"	8
46	030373	WASHER, SPRING LOCK, Ø 5/16"	2
47	030617	NUT, HEX, 5/16-18-UNC	3
48	352986	SCREW, BUTTON HEAD, SOCKET CAP, 1/4-20-UNC X 3/4" LG.	2
49	032317	NUT, HEX, JAM, 1/4-20-UNC	1
50	49801	ROTARY LATCH	1
51	331215	RUBBER UNTHREADED SPACER 1/4 ID X 1" LG	1
52	331232	SCREW, BUTTON HEAD, SOCKET CAP, 1/4-20-UNC X 1- 1/2" LG., (S.S.)	1
53	331301	SCREW, SHOULDER, Ø5/16x5/8" LG (1/4-20-UNC)	1
54	331401	BRACKET, LATCH, REAR GRILLE	1
55	331383	BRACKET REAR LATCH & GRILLE, WLDMT	1
56	331102	BUMPER W/STUD, #10-24UNC	3
59	324412	WASHER, SPRING LOCK, Ø 1/4" SS	2
58	331243	SCREW, BUTTON HEAD, SOCKET CAP, 5/16-18-UNC X 3/4" LG. (SS)	10



CHAPTER 7

Group--Hydraulics

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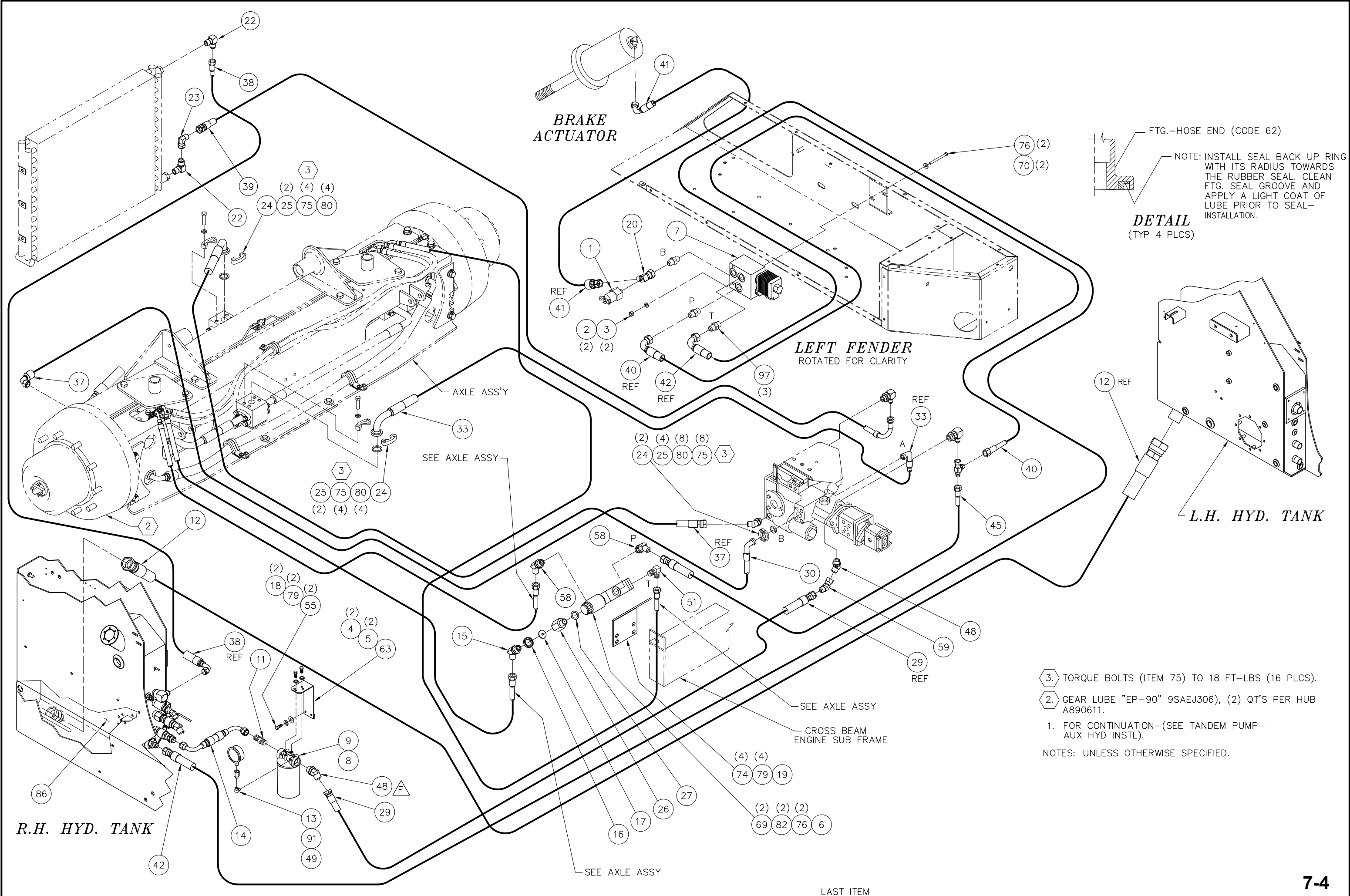
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BRAKE ACTUATOR

LEFT FENDER
ROTATED FOR CLARITY

R.H. HYD. TANK

L.H. HYD. TANK

FTG.—HOSE END (CODE 62)

NOTE: INSTALL SEAL BACK UP RING WITH ITS RADIUS TOWARDS THE RUBBER SEAL. CLEAN FTG. SEAL GROOVE AND APPLY A LIGHT COAT OF LUBE PRIOR TO SEAL-INSTALLATION.

DETAIL
(TYP 4 PLCS)

- 3. TORQUE BOLTS (ITEM 75) TO 18 FT—LBS (16 PLCS).
 - 2. GEAR LUBE "EP-90" 9SAEJ306), (2) QT'S PER HUB A890611.
 - 1. FOR CONTINUATION—(SEE TANDEM PUMP—AUX HYD INSTL).
- NOTES: UNLESS OTHERWISE SPECIFIED.

323858 REV *G

ITEM NO.	PART NUM	QTY	DESCRIPTION
1	330067	1	SWITCH-PRESSURE, PARKING BRAKE
2	030643	2	WASHER- LOC SPLIT PLTD 1/4 GR8
3	030703	2	NUT HEX 1/4-20 UNC
4	030373	2	WASHER- LOC SPLIT PLT 5/16 GR8
5	034800	2	SCR-HX HD,PLT,5/16-18 x 3/4 GR8
6	324803	1	HIGH-LOW VALVE ASSEMBLY
7	319874	1	MANIFOLD- PARKING BRAKE
8	311794	1	FILTER HEAD
9	300115	1	ELEMENT, FILTER TRACTION SYS
11	301053	1	CONN, MB-MJ-16
12	320975	1	HOSE ASSY- 1 1/2 ID X 54 CUT
13	314379	1	GAUGE, VACUUM, (-30"HG)
14	319915	1	HOSE ASSY 1.0 ID X 5 CUT
15	600974	1	ELBOW,MP-MJ45-6
16	306346	1	ORIFICE RETAINER
17	323879	1	ORIFICE, 3/8 NPTF X .043
18	038266	2	WASHER FLAT SAE PLATED 3/8
19	323631	1	ANGLE- HI/LOW VALVE
20	REMOVED	1	REMOVED
22	311724	2	ELBOW, MJ-MP90-12-12L
23	055839	1	ELBOW, MJ-FJX90-12
24	307016	4	SEAL - STATIC FACE 1"
25	308533	0	HALF-SPLIT FLANGE 1" (CODE 62)
26	350387	1	BOSS-MALE, MB-FP-6-6
27	381692	0	O-RING, 3/8 SAE BOSS
29	248831	1	HOSE ASSY- 1.0 ID X 23.25 CUT
30	323704	1	HOSE ASSY 1.0 ID X 27.0 CUT
33	323703	1	HOSE ASSY 1.0 ID X 30.75 CUT
37	326034	1	HOSE ASSY, 3/4 ID X 49 CUT
38	322875	1	HOSE ASSY 3/4 ID X 130 CUT
39	320214	1	HOSE ASSY 3/4ID X 59 CUT
40	322511	1	HOSE ASSY 3/8 ID X 79 CUT
41	322512	1	HOSE ASSY - 3/8 ID X 72.0 CUT
42	322385	1	HOSE ASSY 3/8 ID X 136.0 CUT
45	323706	1	HOSE ASSY 3/8 ID X 33.0 CUT
48	054292	2	ELBOW, MB-MJ45-16
49	321844	1	ELBOW, MP-FP90-2
51	054289	1	ELBOW, MB-MJ90-6
55	034423	2	SCR-HX HD,3/8-16X1 GR8
58	550267	2	EL, MB-MJ45-6
59	REMOVED	1	REMOVED
63	353545	1	BRACKET WLDMT- HYD FILTER
69	022868	2	SCR-HX HD,PLTD,1/4-20X2 GR8
70	022921	2	SCR- HX HD CAB 1/4-20 X 2 3/4
74	034423	4	SCR-HX HD,3/8-16X1 GR8
75	309825	16	SCR-HX HD,7/16-14X1-3/4 GR8
76	609606	4	WASHER FLAT SAE PLATED 1/4
79	030605	6	WASHER- LOC,SPLIT,PLTD,3/8 GR8
80	030499	16	WASHER- LOC,SPLIT,BLK,7/16 GR8
82	038896	2	NUT-LOCK,1/4-20 (CONELock)
91	501811	1	PIPE RDCR, MP-FP-2-4
97	204003	3	CONN, MB-MJ-6



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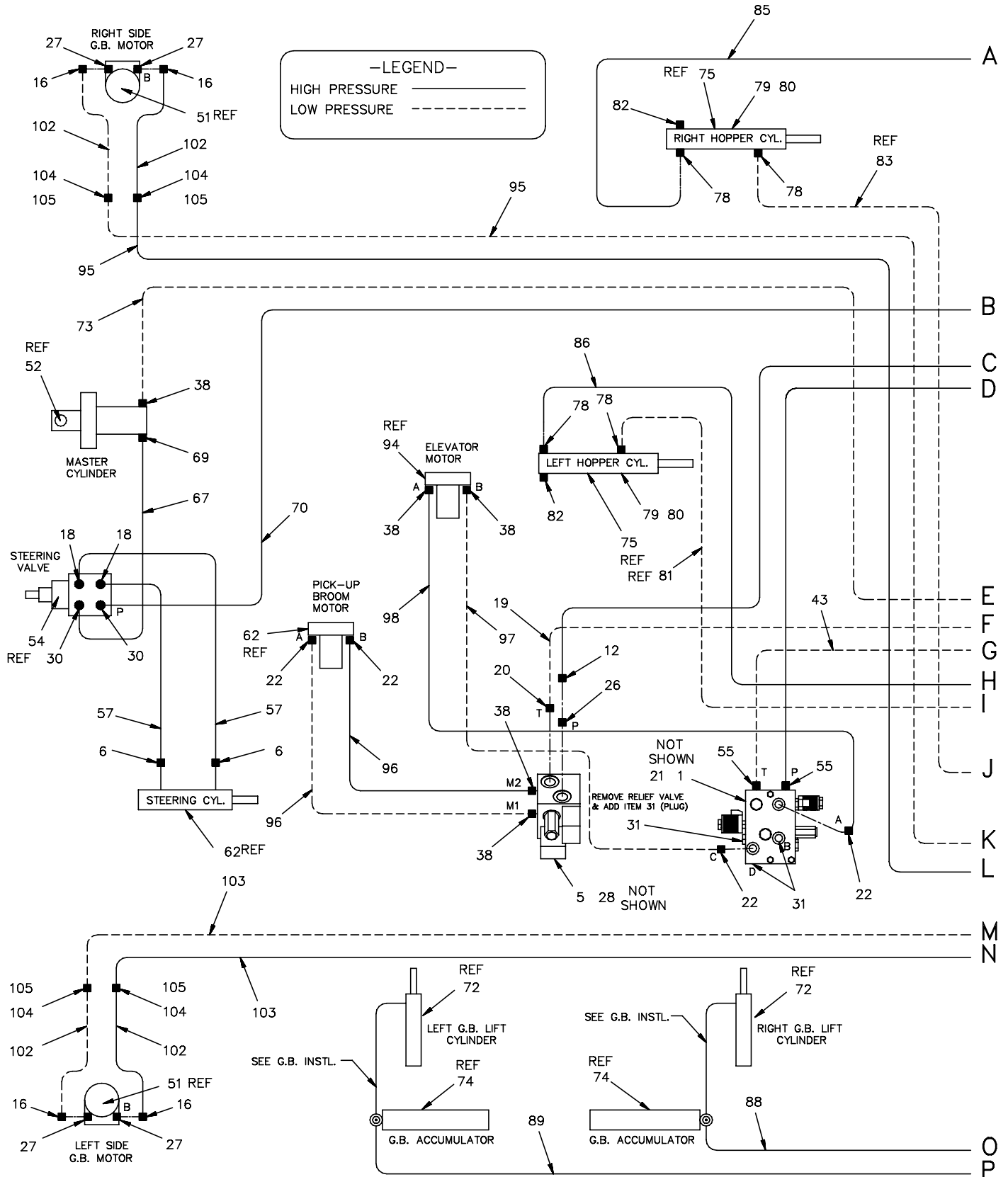


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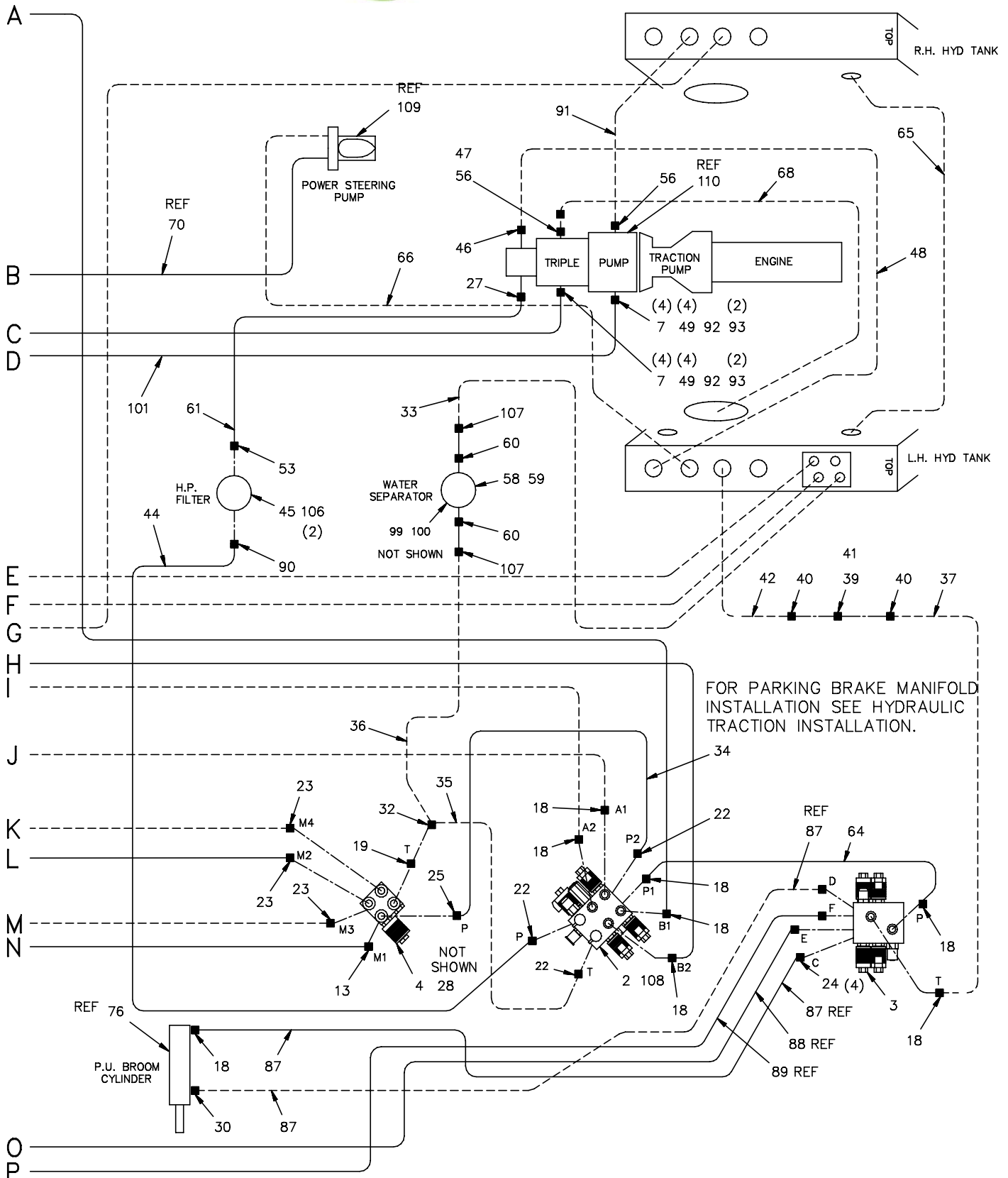


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Auxiliary Hydraulic Installation

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Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	323865	Aux Hyd Inst – Triple Pump	L Ref	49	033139	Scr– Hxhd Plt 3/8–16x1–1/4 Gr8	16
1	319872	Manifold– Elev/Pickup Broom	1	50	352825	Scr–Hx Hd Cap,1/4–20x3–1/2	2
2	319870	Manifold– Hopper, Up/Down	1	51	323533	Motor Assy, G.B.	0
3	319875	Manifold– Split Blk, Brm Lift	1	52	309893	Master Cylinder Assembly	0
4	319871	Manifold– Gutter Broom Drive	1	53	207505	Elbow Mb–Mj90–12–10	1
5	319876	Manifold– Pub Drive	1	55	055882	El, Mb–Mj45–10–12	2
7	035605	Washer Flat Uss Plated 1/4	16	56	320902	O–Ring Flange Set– 16 Cfhs	2
8	030643	Washer– Loc Split Pltd 1/4 Gr8	2	57	316557	Hose Assy–3/8 Id X 22 Lg	2
9	030489	Washer Flat Uss Plated 5/16	27	58	323759	Filter Head	1
10	030373	Washer– Loc Split Plt 5/16 Gr8	23	59	323760	Filter Elmt Spin–On, Water Sep	1
11	030483	Scr– Hxhd Pltd 5/16–18x3/4 Gr8	15	60	323762	Connector, Mb–Mj–20–12	2
12	055839	Elbow, Mj–Fjx90–12	1	61	324346	Hose Assy 5/8 Id X 29.0 Cut	1
13	306523	Elbow– Mb–Mj90II–8	1	62	323384	Hyd Cyl,2”Bore,1”Rod,11.75 Stk	0
14	030599	Nut– Plated, 3/8–16 Gr8	4	63	309291	Pub Motor	0
15	030557	Washer Flat Uss Plated 3/8	4	64	322505	Hose Assy 3/8 Id X 15.5 Lg	1
16	251975	Elbow Mj–Fjx90–10	4	65	322876	Hose Assy 3/8 Id X 87.0 Lg	1
17	050353	Scr–Hx Hd,3/8–16x3–3/4 Gr8	3	66	319915	Hose Assy– 1.0 Id X 27.5 Lg.	1
18	204003	Conn, Mb–Mj–6	10	67	316556	Hose Assy–3/8 Id X 17 Lg	1
19	323746	Hose Assy 3/4 Id X 27.0 Cut	1	68	323693	Hose Assy 1.0 Id X 67.5 Cut	1
20	351707	El,Mb–Mj90–10–12	1	69	301028	El,Mb–Mj90–10–6	1
21	322479	Angle, Elev. Manifold Support	1	70	309721	Hose Assy–3/8 Id X 234 Lg	1
22	620385	El,Mb–Mj90–10	8	71	030617	Nut– Plated 5/16–18	8
23	620513	El, Mb–Mj90–8	3	72	302344	Hydr Cyl–1 1/2 X 10 X 17.25	0
24	054289	Elbow, Mb–Mj90–6	6	73	323929	Hose Assy–5/8 Id X 245.0 Cut	1
25	302683	Conn, Mb–Mj–8–10	1	74	350836	Accumulator	0
26	056501	Conn, Mb–Mj–10–12	1	75	318441	Hydr Cyl–4 X 26 7/8 X 36.875	0
27	204272	Conn, Mb–Mj–10	5	76	308593	Cyl. Pub Lift	0
28	322480	Angle, Manifold Support	2	77	893704029	Trim– Plastic	1
29	031433	Scr– Hx Hd Pltd 5/16–18x1 Gr8	8	78	205791	Elbow Mb–Mj90–8–6	4
30	550267	El, Mb–Mj45–6	3	79	890115007	Loom	2
31	306101	Plug,Mb–10	3	80	400755	Clamp,Adj,2–1/2–7	2
32	205439	Tee–Swivel Branch	1	81	322507	Hose Assy 3/8 Id X 94.5 Lg	0
33	323860	Hose Assy–3/4 Id X 50.0 Cut	1	82	301207	Plug–Mb–8	2
34	323799	Hose Assy–5/8 Id X 14.0 Cut	1	83	322506	Hose Assy 3/8 Id X 158.0 Lg	0
35	322509	Hose Assy 5/8 Id X 4.25 Cut	1	85	322376	Hose Assy 3/8 Id X 118.75 Lg	1
36	315994	Hose Assy–5/8 Id X 46 Lg	1	86	320957	Hose Assy– 3/8 Id X 53.75 Lg	1
37	322374	Hose Assy 3/8 Id X 17.75 Lg	1	87	322372	Hose Assy 3/8 Id X 90.38 Lg	2
38	204257	Elbow–Mb–Mj45–10	4	88	323961	Hose Assy–3/8 Id X 198.0 Cut	1
39	322791	Valve Check	1	89	325096	Hose Assy 3/8 Id X 143 Cut	1
40	101845	Adapter, Mp–Mj–6	2	90	054471	Elbow, Mb–Mj90–12	1
41	896365	Sealant–Pipe Thd 1.00000	1	91	323692	Hose Assy 1.0 Id X 43.5 Cut	1
42	322375	Hose Assy 3/8 Id X 21.88 Lg	1	92	307015	Seal – Static Face 3/4”	4
43	319919	Hose Assy, 3/4”Id X 105”Cut	1	93	300324	Half–Split Flange 3/4	8
44	315128	Hose Assy–5/8 Id X 64 Lg	1	94	308612	Motor Rwk	0
45	308591	Filter – High Pressure	1	95	324462	Hose Assy 5/8 Id X 170.0 Cut	2
46	316932	Conn, Mb–Mj–12–16	1	96	322515	Hose Assy 5/8 Id X 80.5 Lg	2
48	322890	Hose Assy 1.0 Id X 68.90 Lg	1	97	322518	Hose Assy–5/8 Id X 111 Cut	1
				98	322519	Hose Assy–5/8 Id X 106.5 Cut	1

Auxiliary Hydraulic Installation



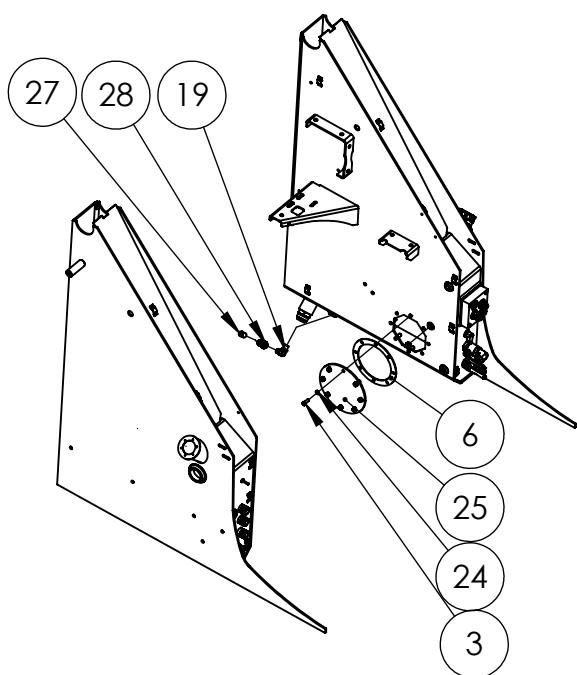
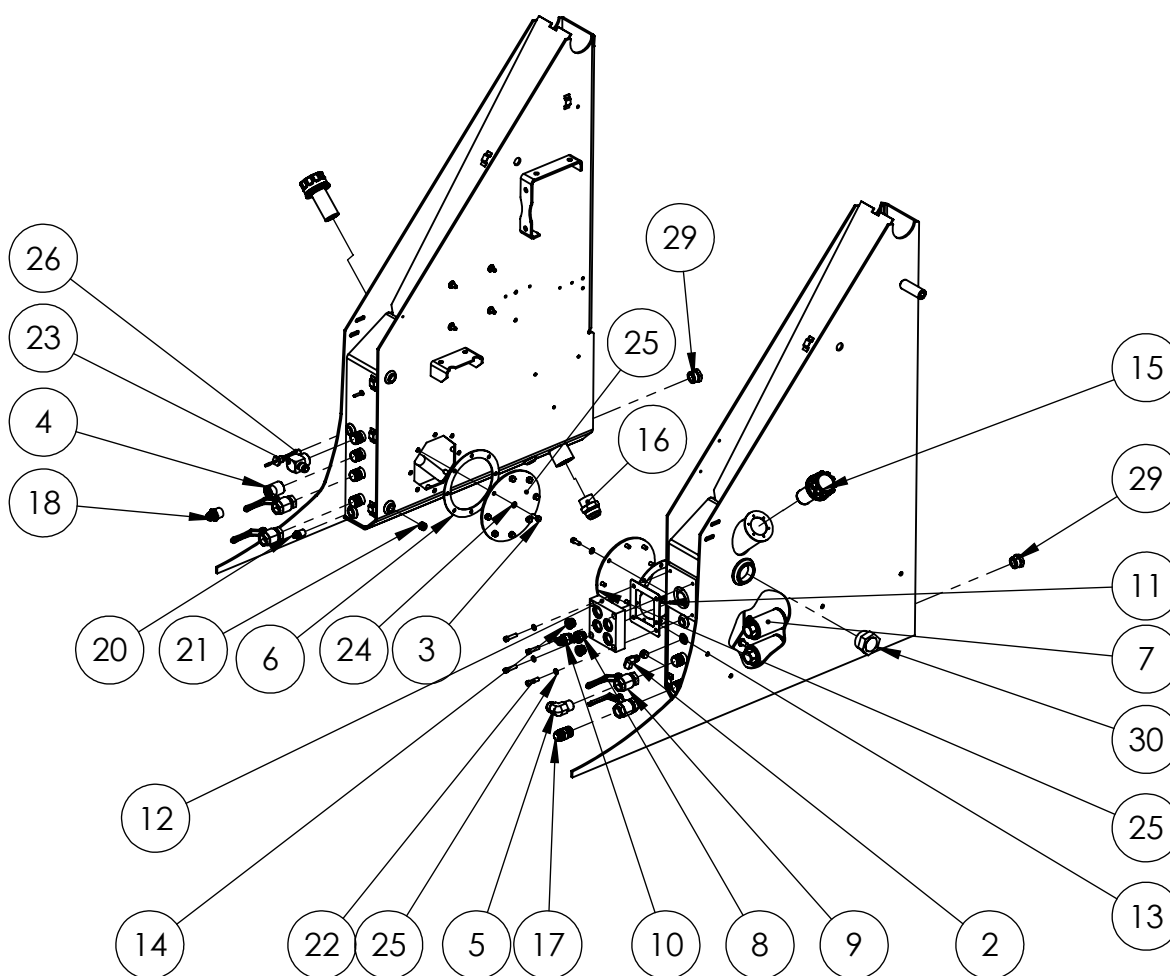
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Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
99	323937	Water Separator Brkt, Wldmt	1				
100	323969	Adapter Brkt Wldmt	1				
101	322516	Hose Assy, 3/4" Id X 54.5" Cut	2				
102	322660	Hose Assy, 5/8 Id X 32.62 Lg	4				
103	324461	Hose Assy 5/8 Id X 113.0 Cut	2				
104	057648	El-Blkhd, Mj-Mjh45-10	4				
105	035045	Nut-Jam, Plated, 7/8-14	4				
106	308598	Spacer	2				
107	055839	Elbow, Mj-Fjx90-12	2				
108	316818	Stand-Manifold, Hopper Up/Dn	1				
109	319297	Pump, Steering Gear, Ccw	0				
110	380866	Pump, Triple 26+22+17	0				





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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	E243450	Tower & Main Frame M3JHE3FS	1
2	33911	FITTING, HYD, STR, MNPT-06 X MJIC-06	1
3	34423	SCR HX HD 3/8-16X1 GR 8	16
4	52172	COUPLING 1" PIPE GALV	1
5	54288	FITTING, HYD, 90°, MNPT-16(1")xMJIC-16	1
6	E300664	GASKET, HYD TANK COVER PLATE	2
7	318356	SUCTION STRAINER, 1-1/4" FNPT	2
8	303165	HYD FITTING STRAIGHT (ORB-12/JIC-10)	1
9	308883	VALVE, BALL 1"	4
10	206382	CONN, MB-MJ-12	1
11	30251	FITTING, PLUG, SQUARE HEAD, MNPT-06 (3/8")	1
12	E320316	RETURN MANIFOLD	1
13	E320319	GASKET- RETURN MANIFOLD	1
14	311315	FITTING, HYD, PLUG, MORB-12	2
15	301310	BREATHER FLNG AIR	2
16	320969	FITTING, HYD, STR, MNPT-24(2") X MJIC-24, STEEL	2
17	115072	FITTING, HYD, STR, MJIC-16 X MNPT-16	1
18	115074	FITTING, HYD, STR, MNPT-16 X MJIC-12	1
19	57081	FITTING, HYD, 90°, MNPT-18(1/2")x2	1
20	35439	FITTING, HYD, STR, MJIC-06xMNPT-08	1
21	33991	FITTING HYD, PLUG, MNPT-08	2
22	34409	SOC HD C/S, 3/8-16 X 1-1/2	4
23	320973	ELBOW- MJ-FP90-12-16	1
24	30605	WASHER-LOCK, SPLIT, PLATED, 3/8 GR8	20
25	E326993	Cover Plate, Hyd Tank Tower	2
26	322069	FLOAT SENSOR ASSEMBLY	1
27	324080	DUST CAP, 1/2" BODY, RIGID NIPPLE, ALUMINIUM	1
28	324422	QUICK CONNECT, SM, TYPE , FNPT-08 X BODY-08	1
29	325034	FITTING, HYD, HEX PLUG, MORB-16	2
30	325424	OIL GAUGE 2", LEVEL RING	2





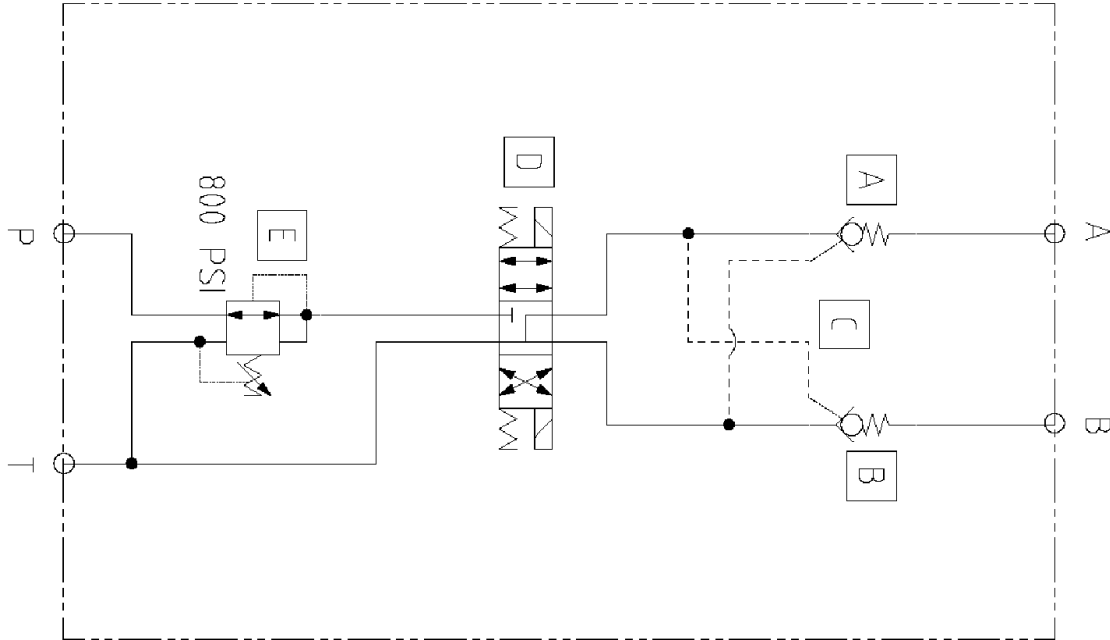
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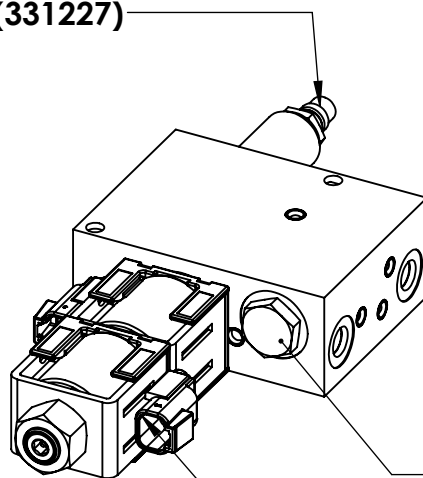
NOTES
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BLUE MANIFOLD- EXT O-REACH OPT PART# (248020)



NOTE:
PART#331223 & 331224
ARE BUILT INSIDE AND ARE
NOT SHOWN.

REDUCING/ RELIEVING
CARTRIDGE (800PSI)
PART # (331227)

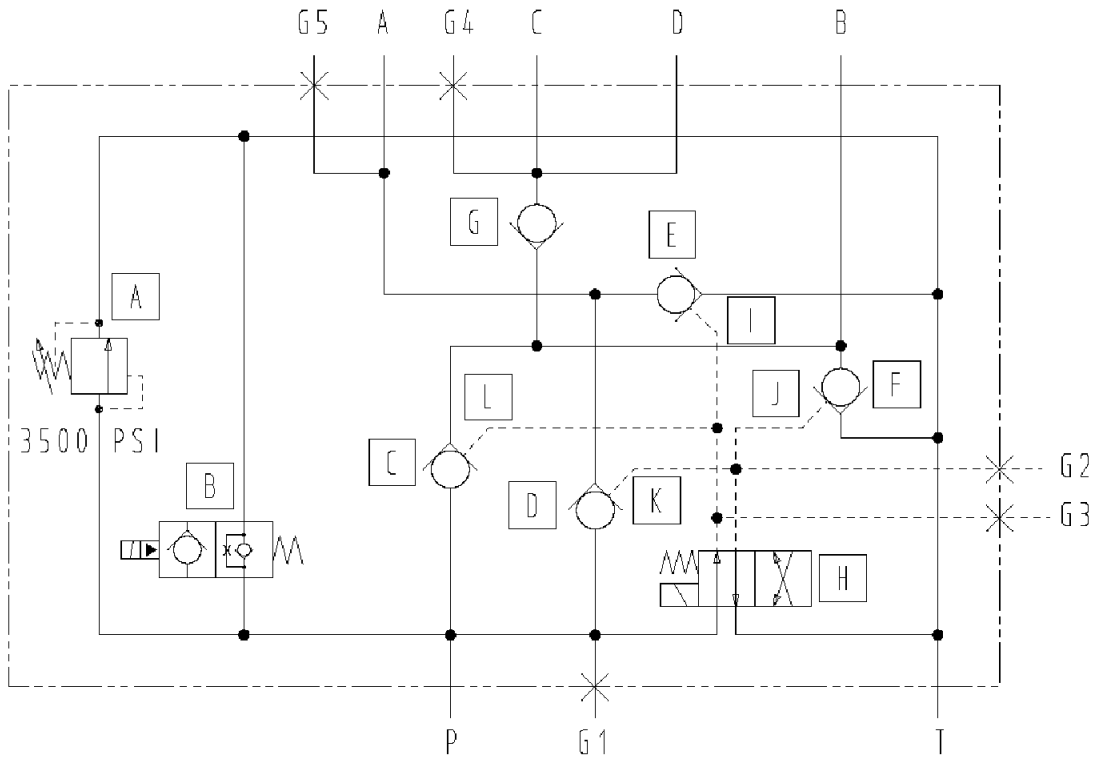


CHECK VALVE
PART# (331222)

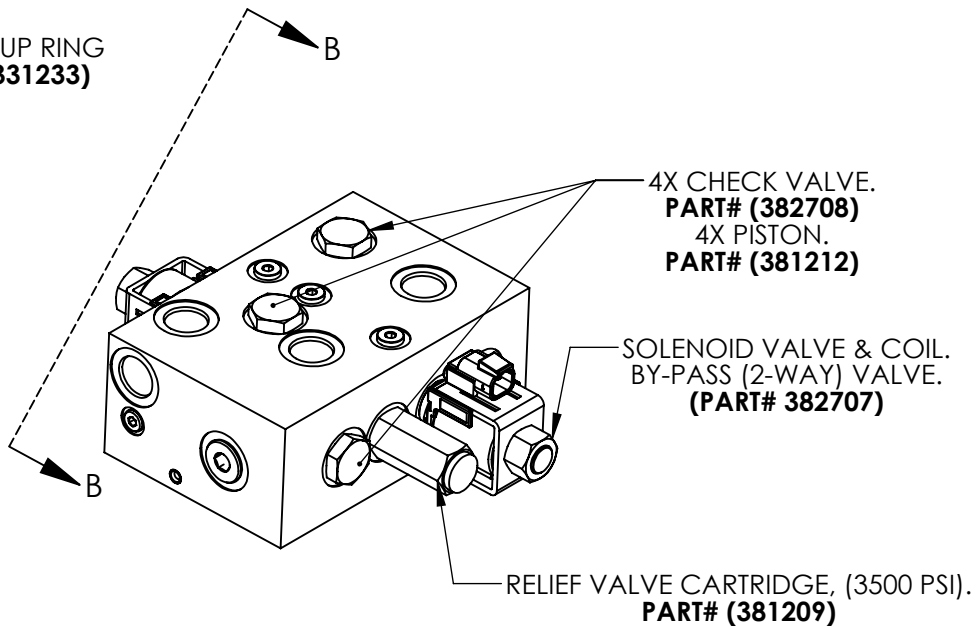
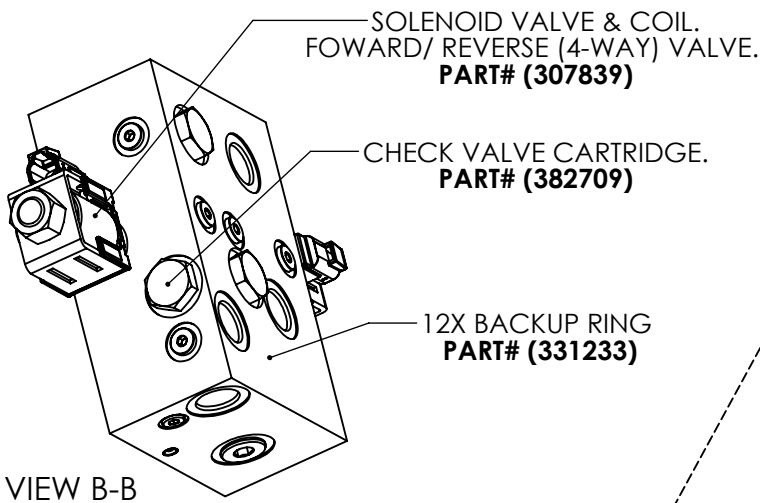
SOLENOID VALVE & COIL
PART# (331225)

PART #	DESCRIPTION
248020	G.B EXTENDED
	331227 REDUCING/ RELIEVING CARTRIDGE (800PSI). 331288 SEAL KIT
	331225 SOLENOID VALVE & COIL 331289 CARTRIDGE ONLY 331214 COIL 331290 SEAL KIT
	331222 CHECK VALVE 331291 SEAL KIT

BLUE MANIFOLD- ELEV./ PICKUP BROOM PART# (319872)

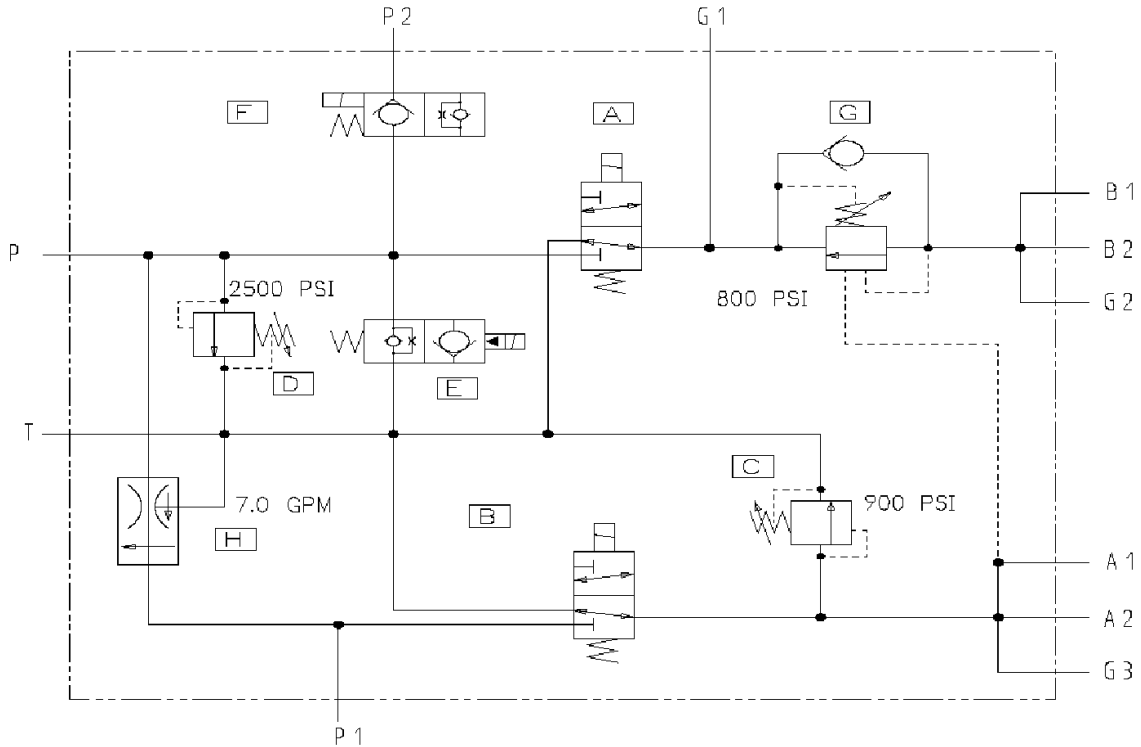


NOTE:
BACK UP RINGS AND PISTONS
ARE BUILT INSIDE MANIFOLD
AND ARE NOT SHOWN IN
DRAWING.



PART #	DESCRIPTION
319872	ELEV./ PICK UP BROOM
	382708 CHECK VALVE 381258 SEAL KIT
	382707 BY-PASS (2-WAY) VALVE 382723 CARTRIDGE 382724 COIL 331276 SEAL KIT
307839	FORWARD/ REVERSE (4-WAY) VALVE 331280 CARTRIDGE 382724 COIL 331283 SEAL KIT
	331236 RELIEF VALVE (3500PSI). 381258 SEAL KIT
	382709 CHECK VALVE 381258 SEAL KIT
	331284 BACK UP RING FOR PILOT PISTON

BLUE MAINFOLD- HOPPER, UP/ DOWN PART# (319870)



2X CARTRIDGE & COIL
HOPPER UP.
PART# (331247)

2X CARTRIDGE & COIL
HOPPER DOWN.
PART# (331247)

FLOW CONTROL CARTRIDGE(7GPM).
PART# (381202)

NOTE:
PART NUMBER (381223) &
(381224) NOT SHOWN.

3X FITTING, DIAGNOSTIC, 7/16.
PART# (381223)
3X DUST CAP.
PART# (381224)

COUNTERBALANCE VALVE(800 PSI).
PART# (331238)

CARTRIDGE & COIL
BYPASS VALVE.
PART# (382707)

RELIEF VALVE CARTRIDGE (900 PSI).
PART# (331240)

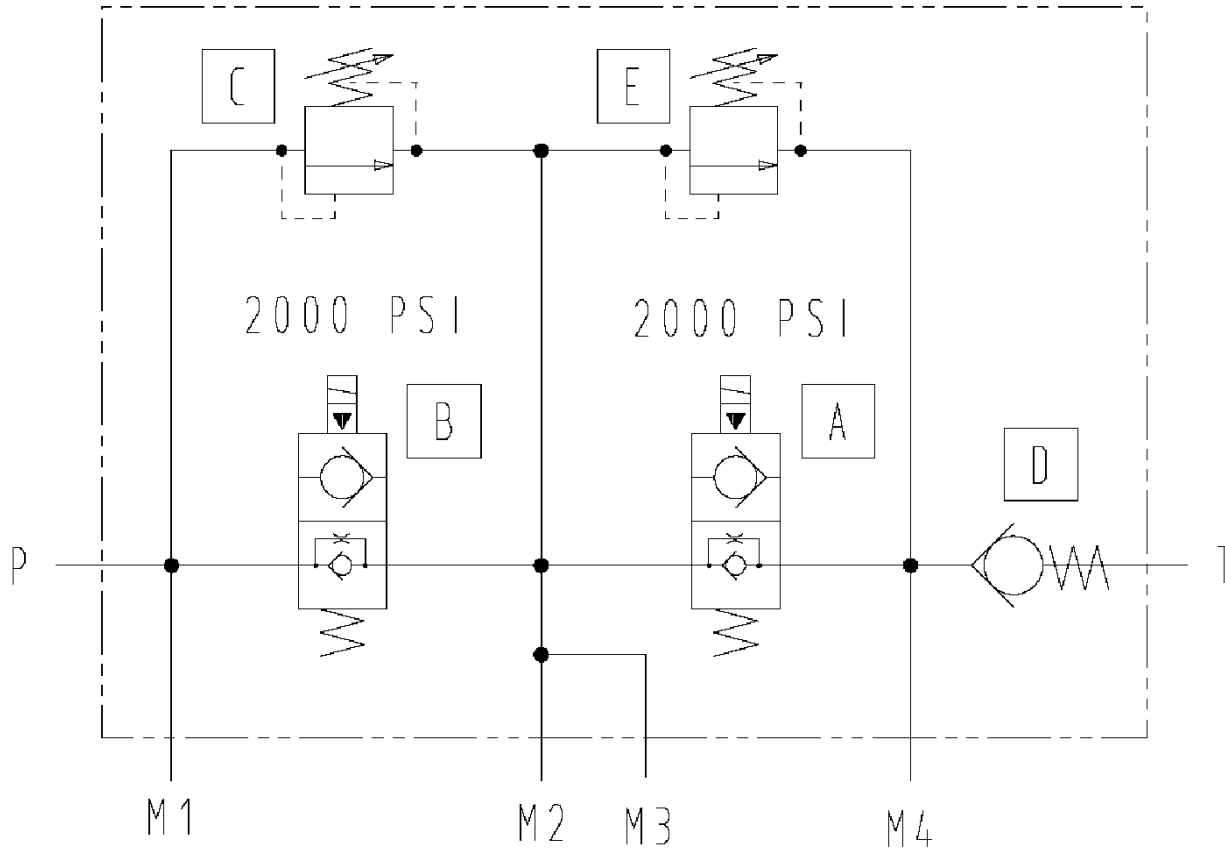
RELIEF VALVE CARTRIDGE (2500 PSI).
PART# (331239)

CARTRIDGE & COIL
G.B. RUN VALVE.
PART# (382706)

PART #	DESCRIPTION
319870	HOPPER, UP/DOWN
331238	COUNTERBALANCE VALVE (800 PSI)
	331277 SEAL KIT
331239	RELIEF VALVE (2500 PSI)
	381258 SEAL KIT
331240	RELIEF VALVE (900 PSI)
	381258 SEAL KIT
381202	FLOW CONTROL (7GPM)
	331278 SEAL KIT
382707	BYPASS VALVE
	382723 CARTRIDGE
	382724 COIL
	331276 SEAL KIT
331247	HOPPER UP/DOWN VALVE
	331280 CARTRIDGE
	382724 COIL
	331281 SEAL KIT
382706	G.B. RUN VALVE
	331282 CARTRIDGE
	382724 COIL
	331276 SEAL KIT

BLUE MANIFOLD- GUTTERBROOM DRIVE.

PART# (319871)

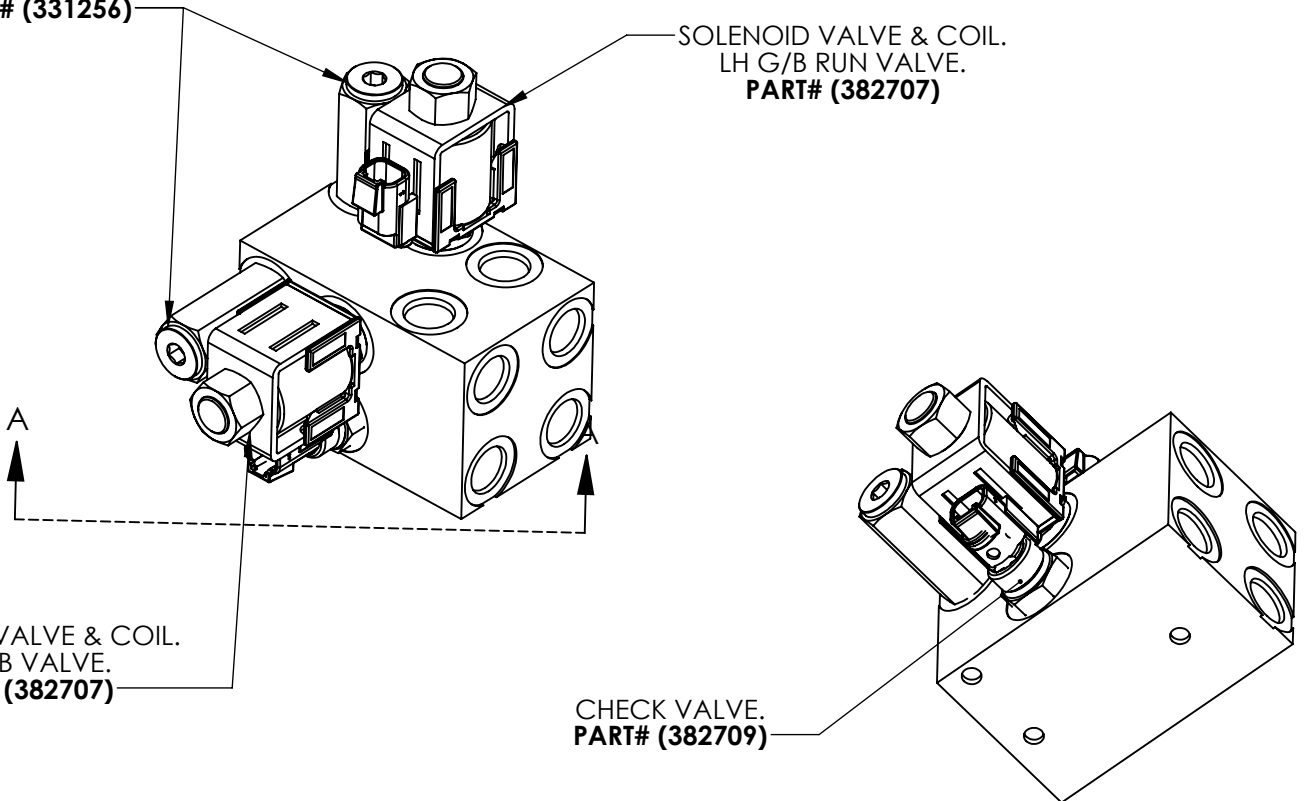


RELIEF VALVE CARTRIDGE (2000 PSI).
PART# (331256)

SOLENOID VALVE & COIL.
LH G/B RUN VALVE.
PART# (382707)

SOLENOID VALVE & COIL.
RH G/B VALVE.
PART# (382707)

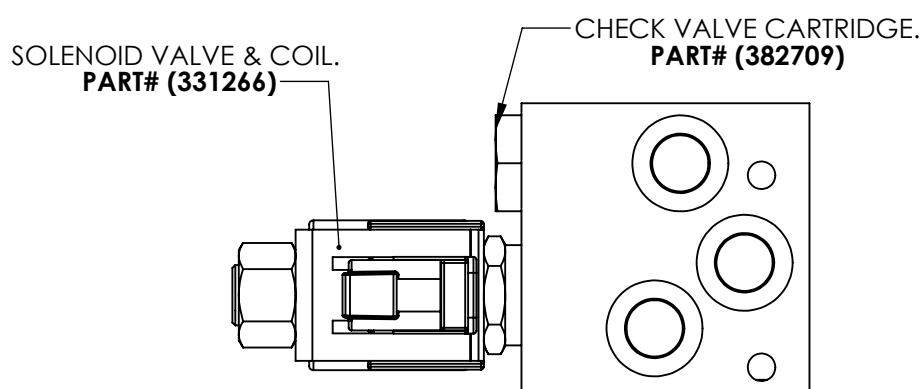
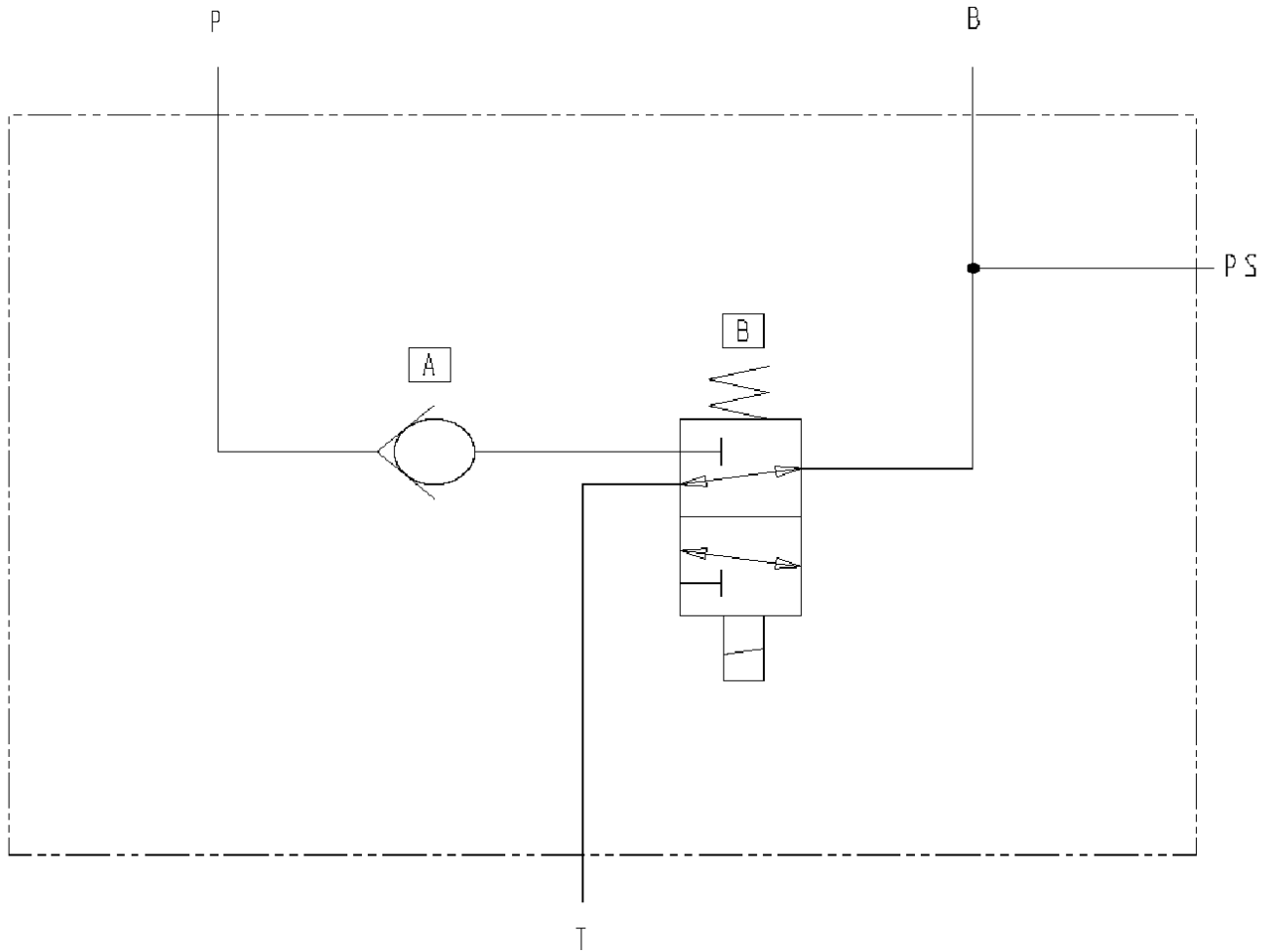
CHECK VALVE.
PART# (382709)



VIEW A-A
SCALE 1 : 3

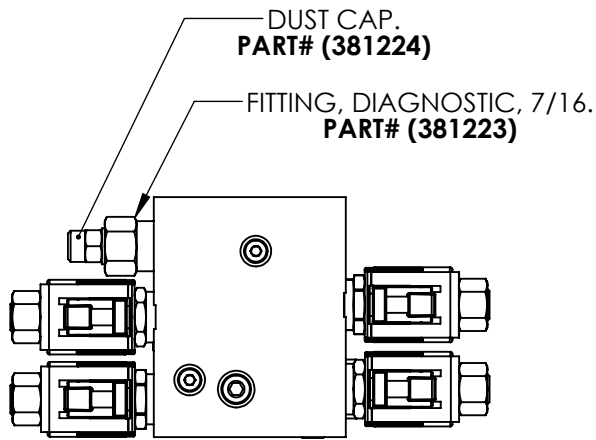
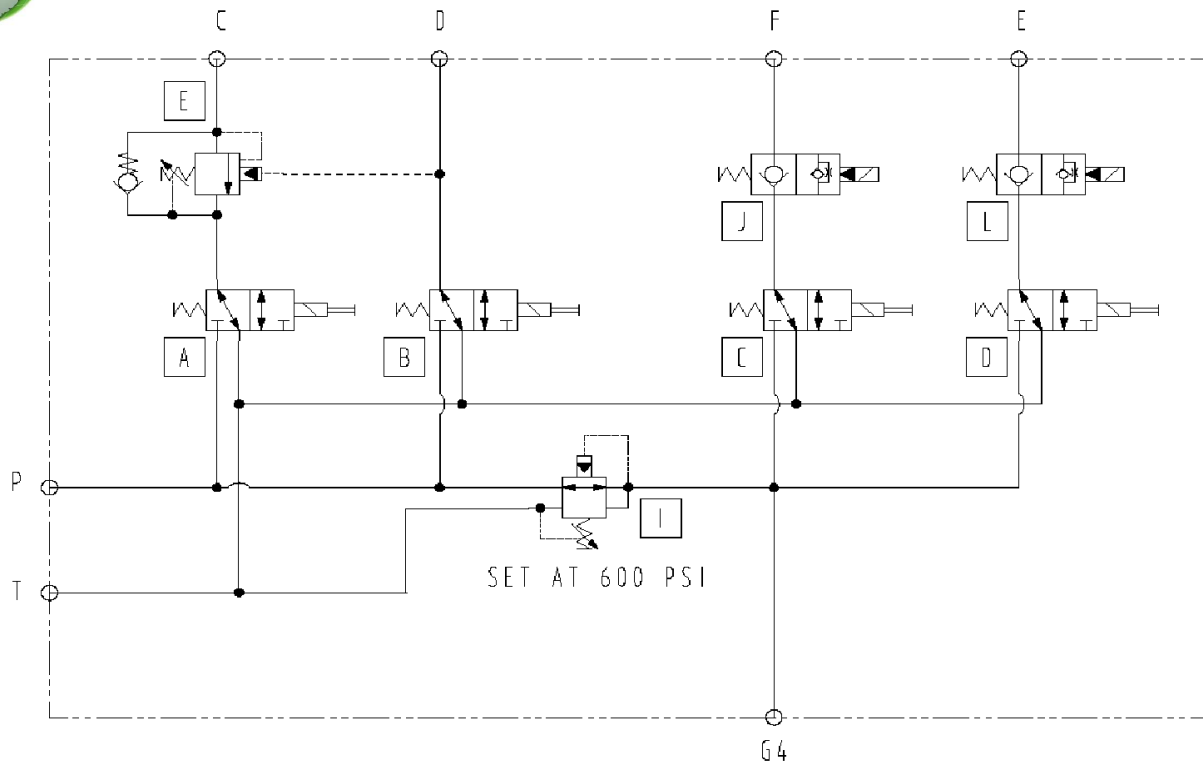
PART #	DESCRIPTION
319871	GUTTER BROOM DRIVE
	331256 RELIEF VALVE (2000 PSI) 381258 SEAL KIT
	382707 SOLENOID VALVE & COIL 382723 CARTRIDGE 382724 COIL 331276 SEAL KIT
	382709 CHECK VALVE 381258 SEAL KIT

BLUE MANIFOLD-PARKING BRAKE PART# (319874)

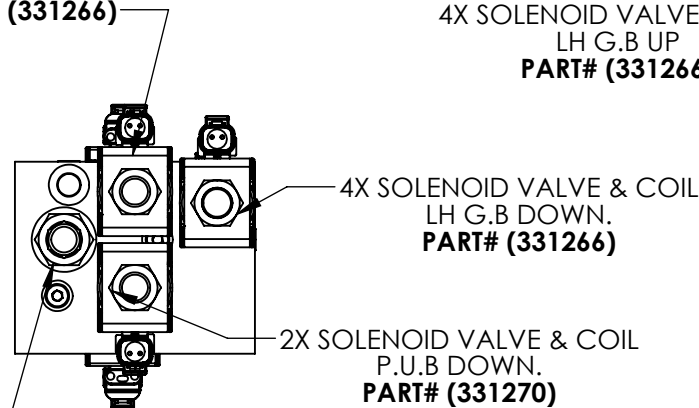


PART #	DESCRIPTION
319874	PARK BRAKE
	331266 SOLENOID VALVE & COIL
	331280 CARTRIDGE
	382724 COIL 331281
	SEAL KIT
	382709 CHECK VALVE
	381258 SEAL KIT

BLUE MANIFOLD-BROOM LIFT PART# (319875)

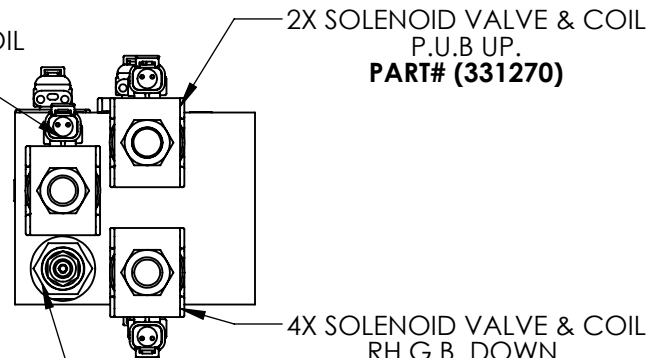


4X SOLENOID VALVE & COIL
P.U.B DOWN.
PART# (331266)



PRESSURE REDUCING/RELIEVING(600PSI).
PART# (382712)

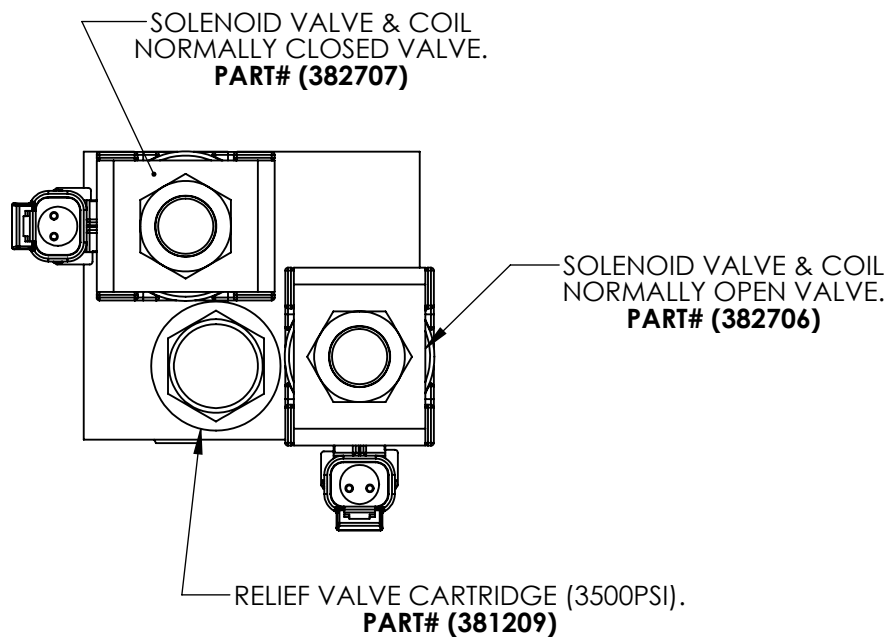
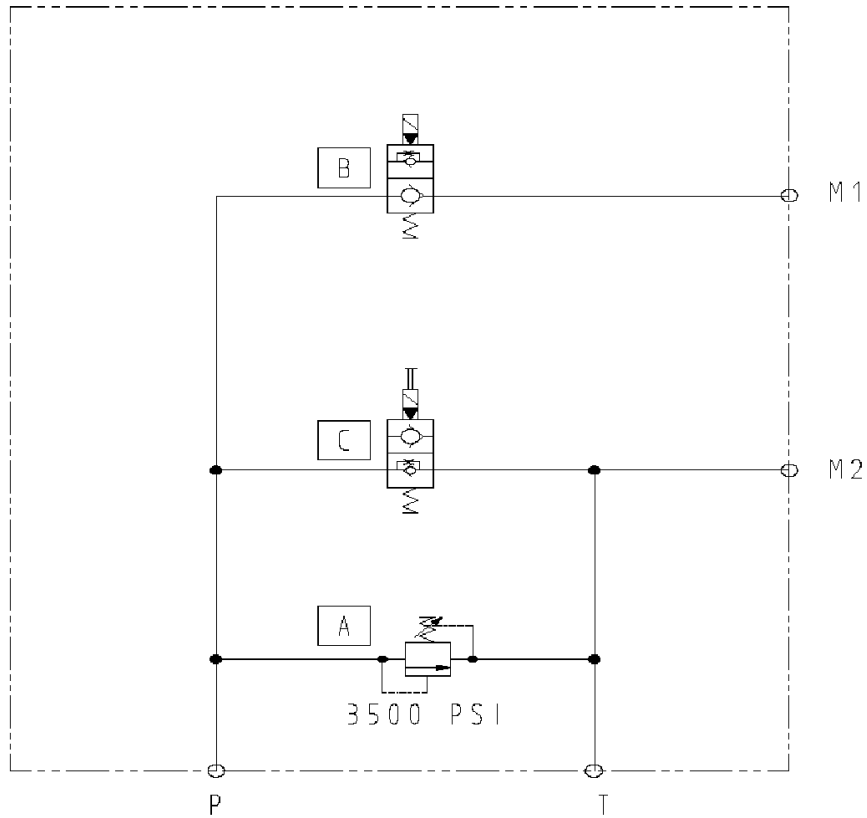
4X SOLENOID VALVE & COIL
LH G.B UP
PART# (331266)



COUNTERBALANCE CARTRIDGE (3045PSI).
PART# (331268)

PART #	DESCRIPTION
319875	BROOM LIFT
331268	COUNTERBALANCE VALVE (3045PSI)
331277	SEAL KIT
382712	PRESSURE REDUCER VALVE (600PSI)
331285	SEAL KIT
331266	P.U.B DOWN
331280	CARTRIDGE
382724	COIL
331281	SEAL KIT
331270	P.U.B UP
331282	CARTRIDGE
382724	COIL
331276	SEAL KIT

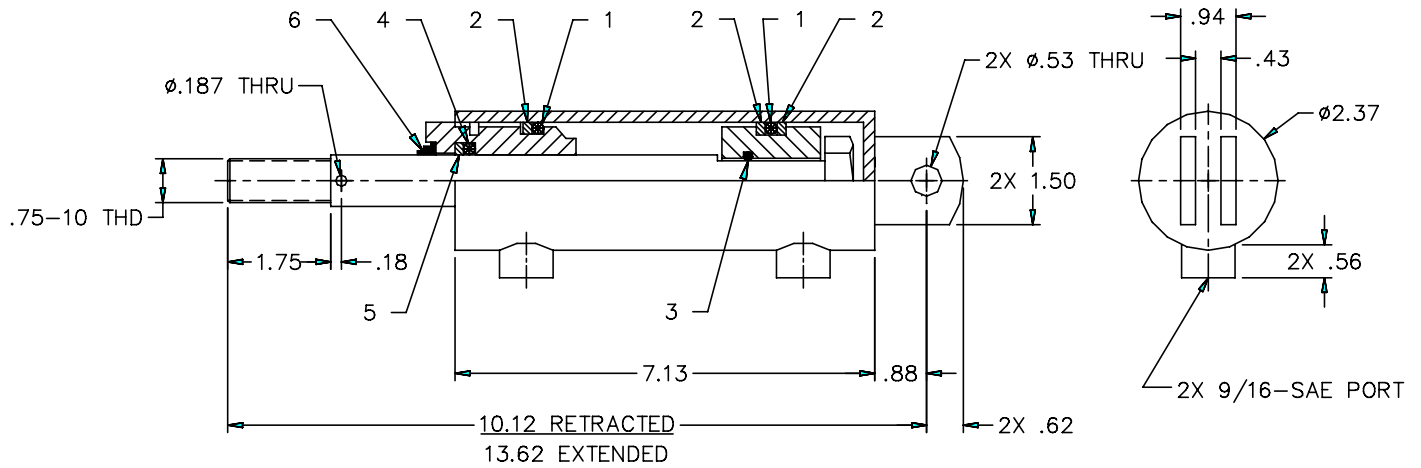
BLUE MANIFOLD- P.U.B DRIVE PART# (319876)



PART #	DESCRIPTION
319876	P.U.B DRIVE
382707	NORMALLY CLOSED VALVE
	382723 CARTRIDGE
	382724 COIL
	331276 SEAL KIT
382706	NORMALLY OPEN VALVE
	331282 CARTRIDGE
	382724 COIL
	331276 SEAL KIT
381209	RELIEF VALVE (3500PSI)
	381258 SEAL KIT



NOTES
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2. PRESSURE TEST REQUIRMENTS:

- WORKING PRESSURE: 2500 PSIG
- TESTING PRESSURE: 3250 PSIG
- BURST PRESSURE: 5000 PSIG

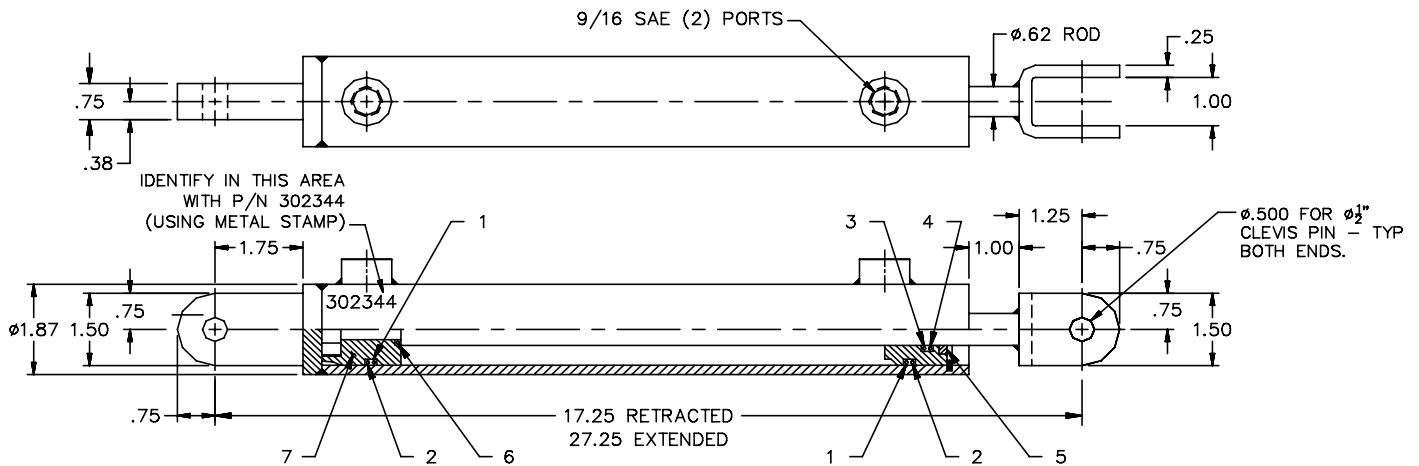
NOTES, UNLESS OTHERWISE SPECIFIED:

Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	308593	Pickup Broom Lift Cylinder	C Ref				
1	070680	O-Ring	2				
2	070679	Backup Ring	3				
3	070678	O-Ring	1				
4	070683	O-Ring	1				
5	070682	Backup Ring	1				
6	070681	Dust Seal	1				
7	070684	Seal Kit	1				

**figure 12
page 7.32**



NOTES
NOTES



SPECIFICATION:

MODEL LD 1 1/2" BORE X 10" STROKE
 5/8" DIA, CHROME PLATED SHAFT;
 9/16" SAE PORTS; STANDARD SEALS &
 PRIME PAINT.

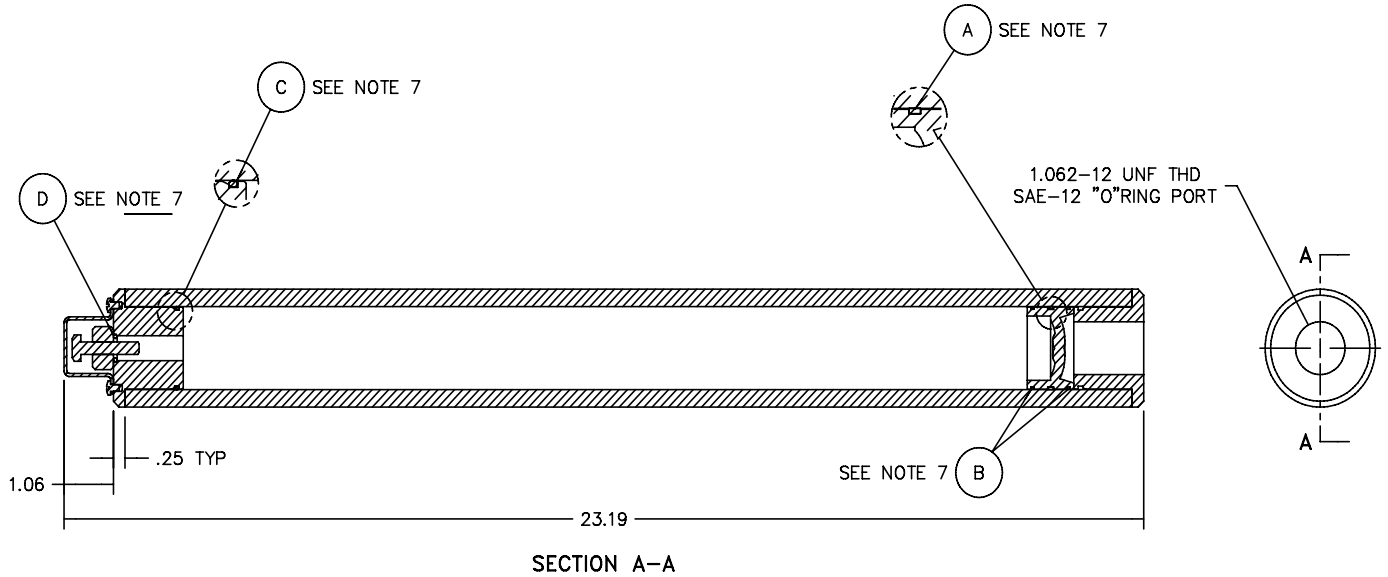
- 3. ALL DIM'S ARE REFERENCE.
- 2. PRESSURE TEST REQUIRMENTS:
 WORKING PRESSURE; 1500 PSIG
 TESTING PRESSURE: 2250 PSIG
 BURST PRESSURE: 3000 PSIG
- 1. SEAL KIT A302515 IS FOR CYLINDERS
 DATE CODED BEFORE 7/94.
 CYLINDERS DATED BEFORE 7/94
 MAY BE UPGRADED BY USING PISTON
 P/N 380856 & SEAL KIT P/N 380855.
 DATE CODE IS STAMPED ON CYLINDER.

NOTES, UNLESS OTHERWISE SPECIFIED:

Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	302344	Gutter Broom Lift Cylinder	D Ref				
1	302509	O Ring 1.5 Odx 1.25 ldx 1/8 W	0				
2	302510	Ring- Backup 1.5 Od X 1.25 ld	0				
3	302511	O Ring 13/16 Odx 5/8 ldx 3/32w	0				
4	302512	Ring- Backup 13/16 Odx 5/8 ld	0				
5	380854	Dust Seal	0				
6	302514	O Ring .5 Odx .38 ld X 1/16 W	0				
7	380856	Piston	0				
8	380855	Seal Kit- Cylinder, Hydraulic	0				



NOTES
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NOTES:

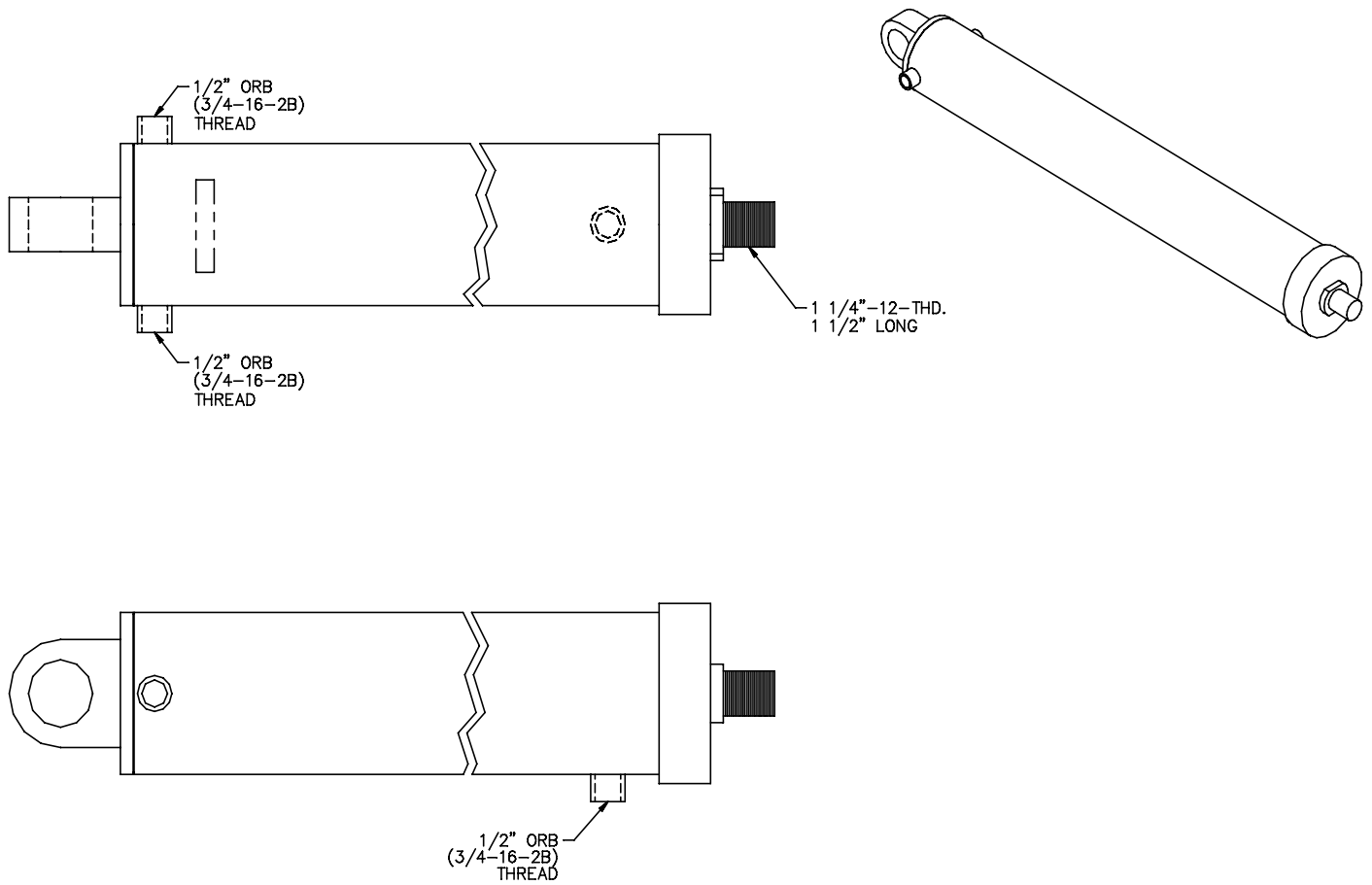
1. MAX WORKING PRESSURE: 3000 PSI.
2. RECHARGE PRESSURE: 85 PSI ⁺¹⁰ PSI ₋₀
3. RECHARGE WITH FILTERED AIR.
- 4.
5. VOLUME: 58 IN³ (1QT).
- 6.
7. ITEMS A,B,C,& D ARE COMPONENTS OF ITEM 1. THEY ARE NOT SERVICED SEPARATELY.
8. ALL DIM'S REF.

Item	Pt No.	Description	Qty
-	350836	Gutter Broom Accumulator	E Ref
1	380940	Accumulator Service Kit (No Further Breakdown Available)	1





NOTES
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Item	Pt No.	Description	Qty
-	318440	Hydr Cylinder 4X44 7/16X58.25 (High Dump)	Ref
1	381011	Seal Kit, Cylinder (No Further Breakdown Available)	1





NOTES
NOTES



CHAPTER 8

Group--Water Spray

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Water Tank Installation	8.13
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Water Valve Manifold Assembly	8.22
Water Pump Motor Assembly	8.24
Float Switch Assembly	8.26
Hose color chart and nozzles.....	8.28

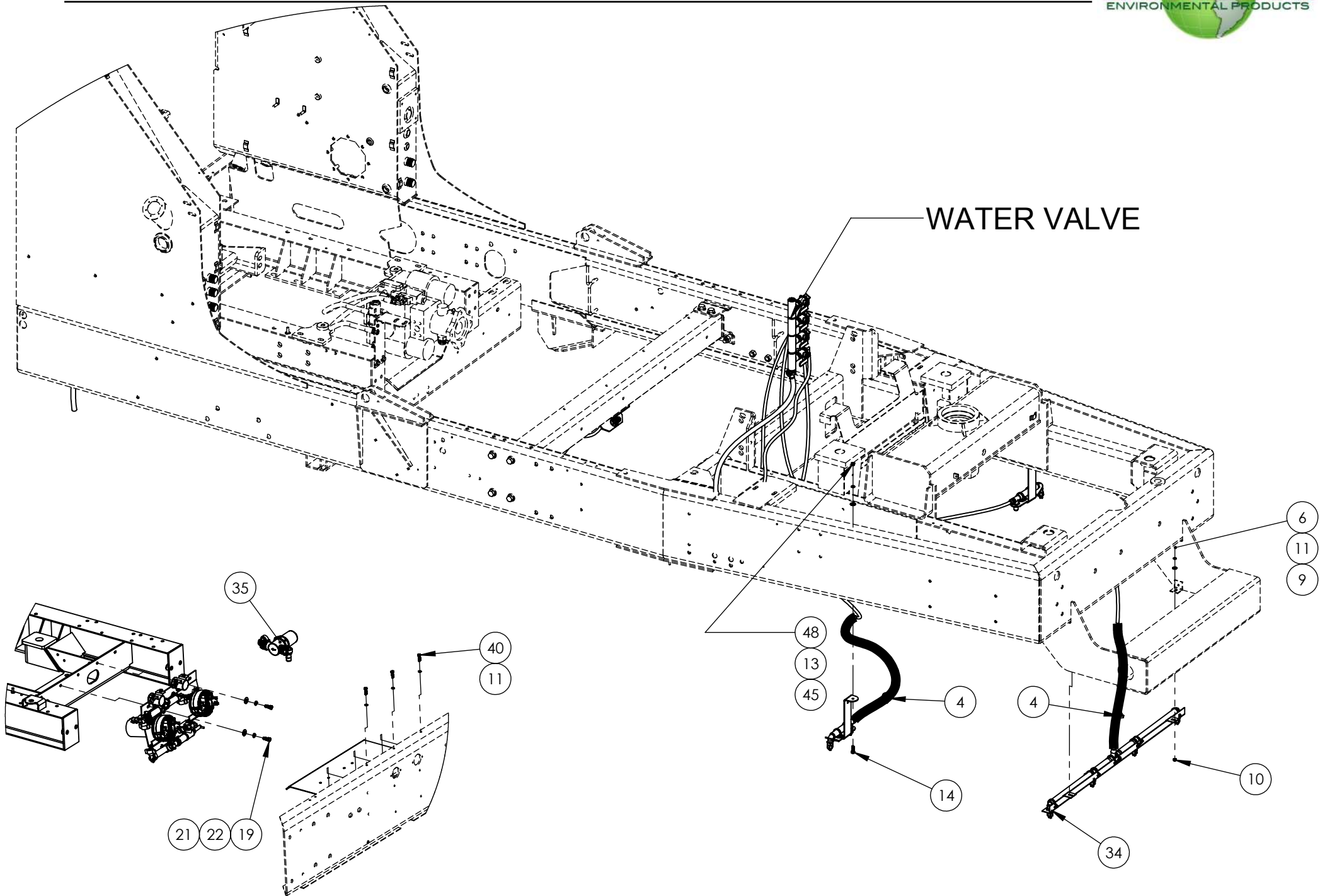


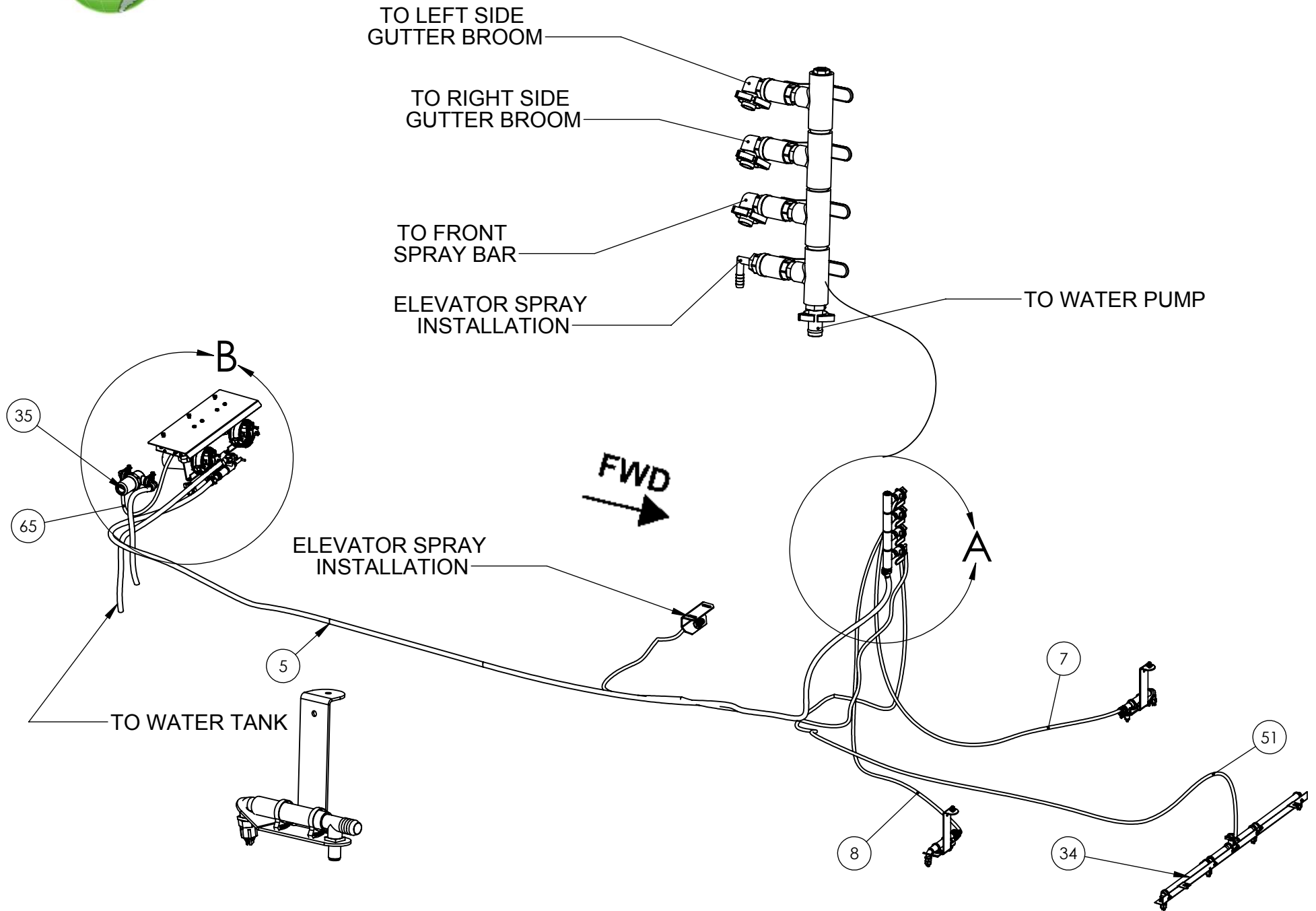
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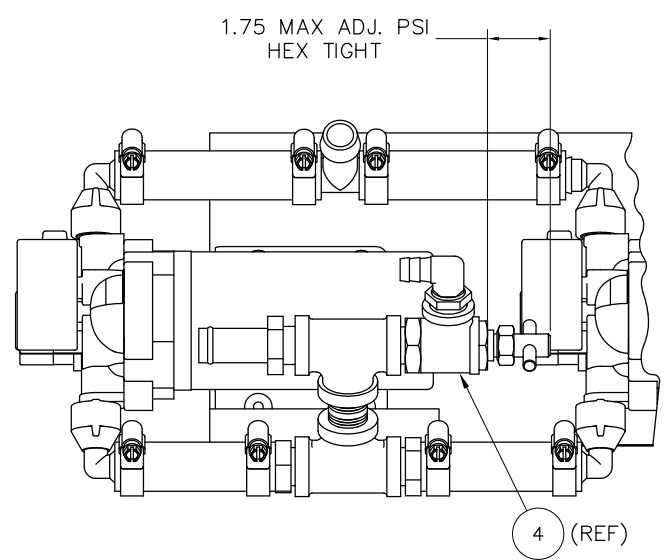
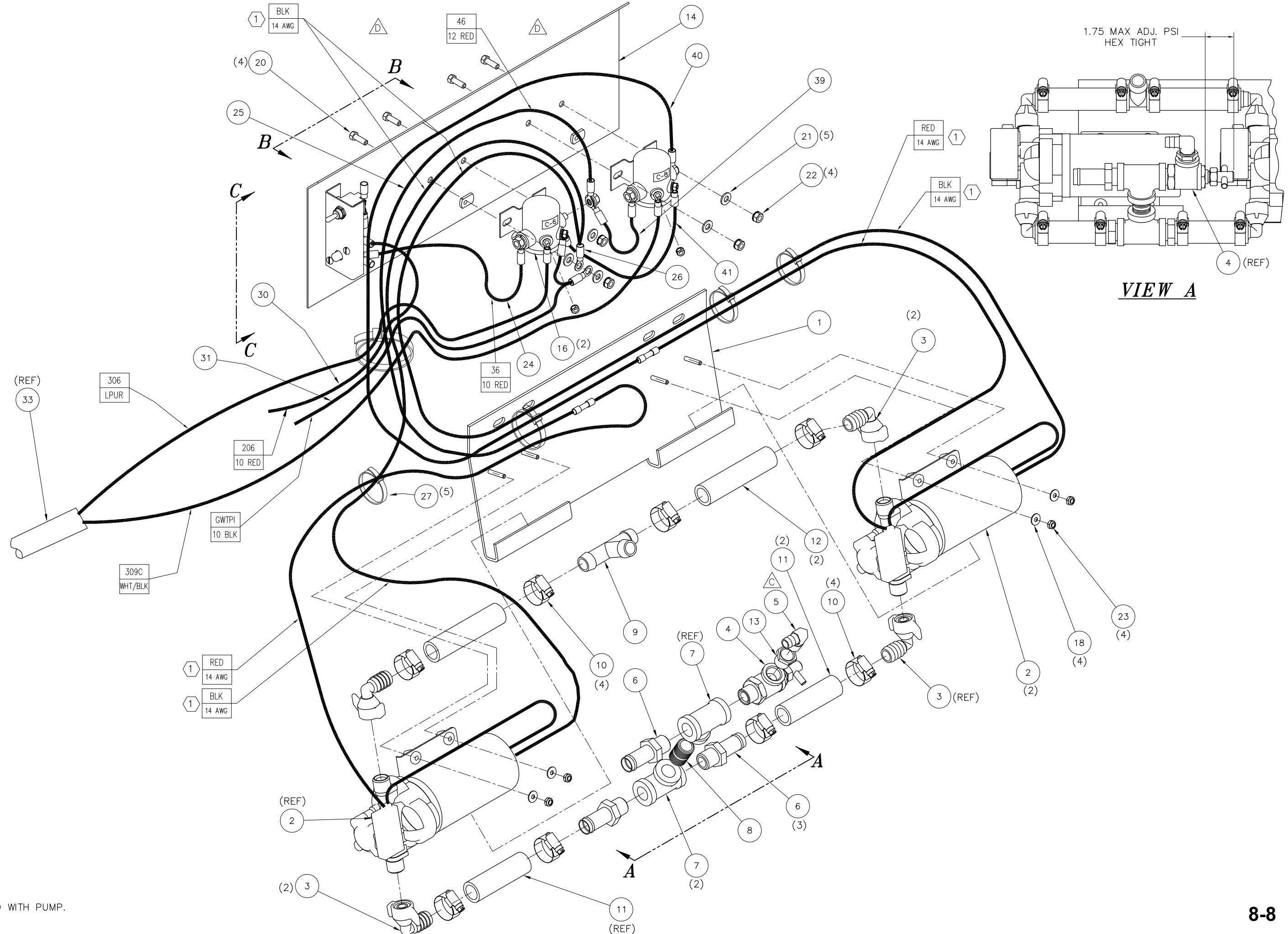


WATER PLUMBING INSTALLATION

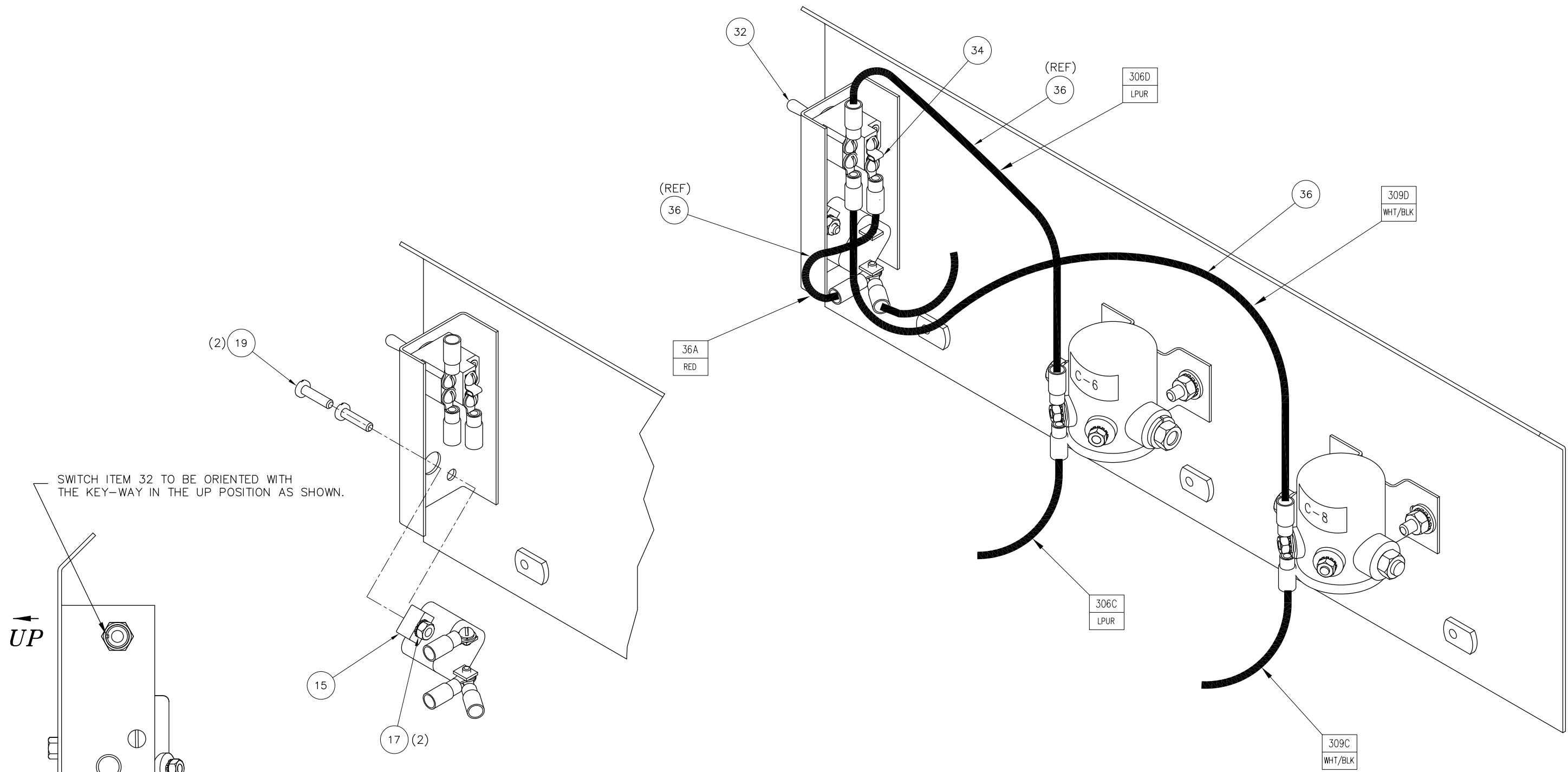
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
REF	323566	WATER PLUMBING INSTL	REV F
4	324482	SNAP GRIP CLAMP#62,61/64-35/32	7
5	893522212-	HOSE, 3/4 ID X 212.0" LG	1
7	893522090	3/4 ID X 90" LG	1
8	893522110	HOSE 3/4 ID X 110" LG	1
9	035605	WASHER,FLAT,Ø 1/4",USS,(3/4" O.D.)	2
10	030703	NUT, HEX, 1/4-20-UNC	4
11	DELETE	WASHER,SPRING LOCK,Ø 1/4"	7
13	030373	WASHER,SPRING LOCK,Ø 5/16"	2
14	031433	BOLT,HEX,HEAD,5/16-18-UNC x 1"LG	2
15	040774	CLAMP,HOSE,Ø3/4",GEAR TYPE,(9/16@1-1/4)	4
19	034423	BOLT,HEX,HEAD,3\8-16-UNC x 1" LG. GR8	2
21	030557	WASHER,FLAT,USS,Ø 3/8"	2
22	030605	WASHER,SPRING LOCK,Ø 3/8"	2
25	053308	CLAMP HOSE #8 7/16-29/32	1
26	896044052	HOSE 1/2 ID X 52" LG	1
33	893522054	HOSE 3/4" ID X 54 LG	1
34	322076	FRONT SPRAY BAR ASSY-M3	1
35	322773	STRAINER- CLEAR BOWL, 50 MESH	1
37	322912	ELBOW, 3/4" M-NPT X 3/4" BARB NYLON	2
38	501838	CLAMP LOOP G 21	2
40	033125	BOLT,HEX,HEAD,Ø 1/4-20-UNC x 1"LG,GR.8,GOLD ZINC	5
45	030489	WASHER,FLAT,Ø 5/16",USS,WIDE,7\8" O.D.	2
48	030617	NUT, HEX, 5/16-18-UNC	2
51	893522136	HOSE WATER	1
65	893522032	HOSE 3/4 ID X 32.0" LG	1



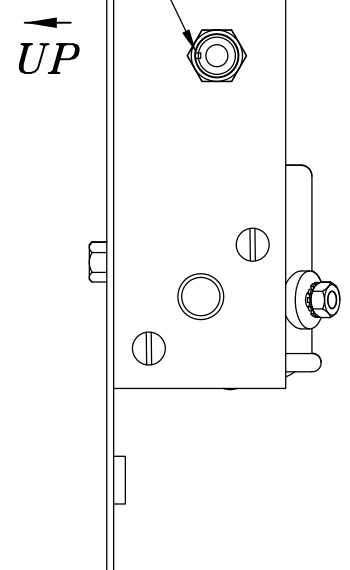
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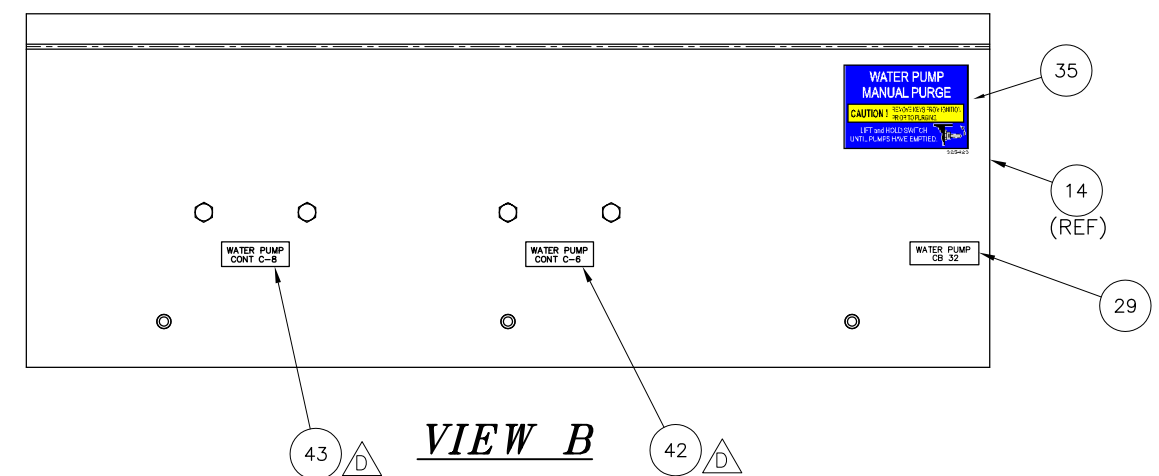
NOTES:
 1. WIRE SUPPLIED WITH PUMP.



SWITCH ITEM 32 TO BE ORIENTED WITH THE KEY-WAY IN THE UP POSITION AS SHOWN.



VIEW C



VIEW B

324575 REV *E

Water Plumping Assembly Standard

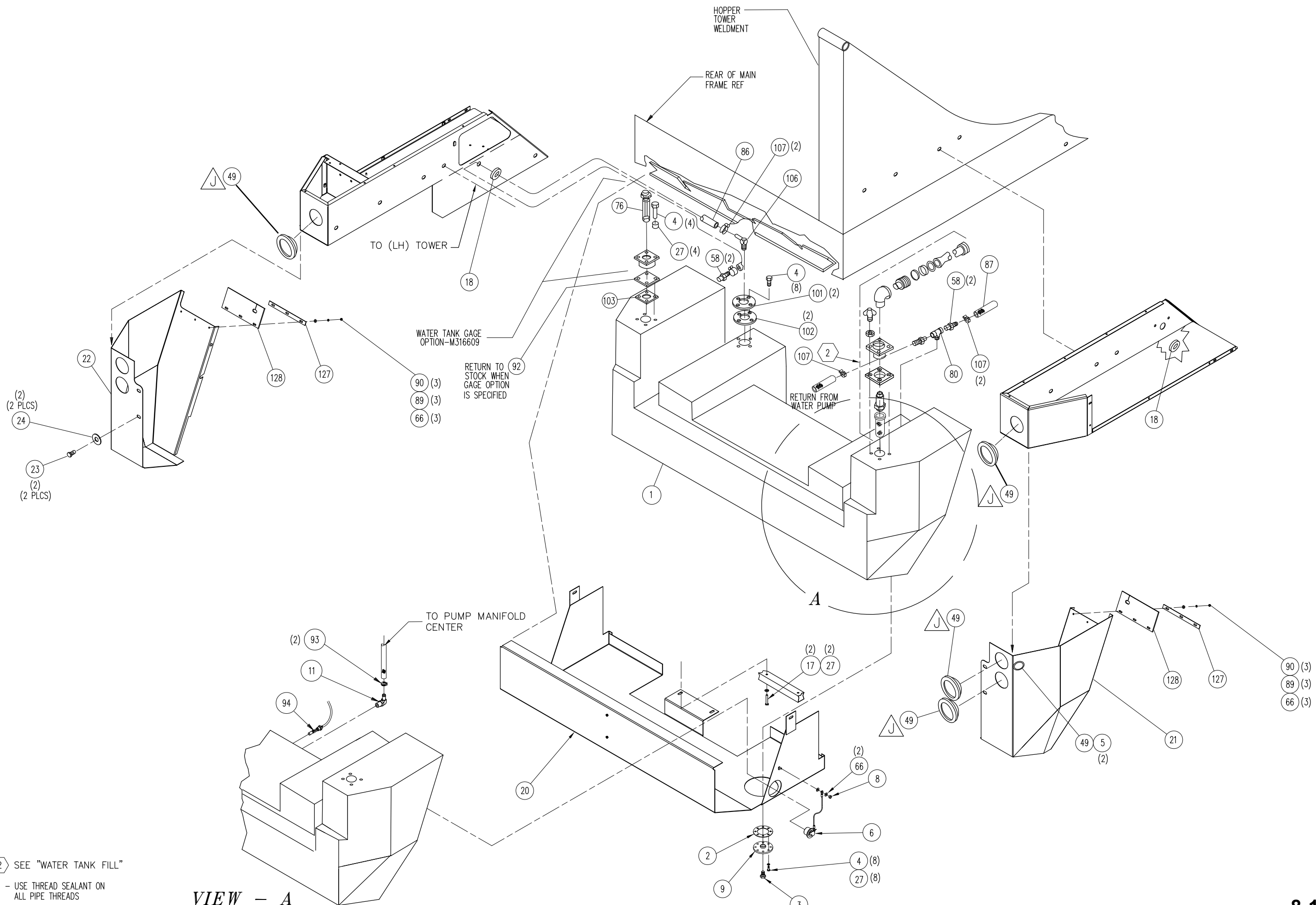
ITEM NO.	PART NUM	QTY	DESCRIPTION
1	322707	1	Bracket Weldment Water Pump Mount
2	313915	2	PUMP, WATER, DIAPHRAGM, ELECTRIC, 12V AMI 9910
3	-	4	ELBOW, 90 DEG, 1/2 NPSM X 3/4 HOSE
4	-	1	Pressure Relief Valve 0-300PSI
5	-	1	FTG-90 DEG,3/8 P X 1/2 HOSE
6	315138	3	HOSE FTG-PUSH-ON 3/4H X 1/2MP
7	034048	2	Fitting,Water,TEE, FNPT-08(Ø1/2") Galv
8	024119	1	NIPPLE- CLOSE 1/2 GALV
9	322032	1	TEE, NYLON 3/4 HOSE
10	040774	8	Clamp,Gear Ø11/16@1-1/4",HS-12
11	893522003	2	Hose 3/4 ID X 3-1/8"Lg, 1 Braid
12	893522004	2	Hose 3/4"ID X 4-1/2"Lg, 1 Braid
13	-	1	BUSHING - RED 1/2X3/8 BLK PIPE
14	322705	1	Cover Weldment, Water Pumps
15	350859	1	CIRCUIT BREAKER - 30 AMP
16	353107	2	RELAY, 65 AMP, PLASTIC COATED (N)
17	036860	2	Nut, Keps #10-24 (ZP)
18	900135	4	Washer, Flat #10 USS (Gr5 YZ)
19	036859	2	Screw, Pan Hd Slot #10-24x3/4" (ZP)
20	033145	4	Bolt, Hex Hd 1/4"-20x3/4" (Gr.8YZ)
21	609606	5	Washer, Flat 1/4" SAE (Gr.8YZ)
22	900105	4	Nut, Keps 1/4"-20 (ZP)
23	305121	4	Nut, Lock Nylon #10-24 (Gr.8ZP)
24	354385	0	WIRE ASSY LINE 36
25	324578	0	WIRE ASSY LINE-46
26	352449	1	Terminal, Ring 12-10Ga Stud Ø1/4"(Shrink
27	309105	5	CABLE TIE,14.75 LG, HEAVY DUTY
28	896676	0	Rubber Coating Dip, Blue Colour Guard
29	354388	0	DECAL - WATER PUMP CB 32
30	650008	1	SWITCH-TOGGLE
31	354384		WATER SPRAY WIRE ASSY-GWTP2
32	322703	0	WIRE ASSY LINE 206
33	325144	1	HARNESS "P6-REAR" M3J M-CAB
34	300731	0	JUMPER BAR
35	325423	0	DECAL, WATER PUMP MANUAL PURGE
36	325254	0	WIRE ASSY "WATER PUMP PURGE"
39	324556	0	WIRE ASSY LINE - 347
40	324557		LED CLEARANCE & MARKER RED
41	324558		WIRE ASSY LINE - GWTP3
42	324560		DECAL WATER PUMP, CONT C-6
43	324561		DECAL WATER PUMP, CONT C-8



NOTES
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2 SEE "WATER TANK FILL"

1 - USE THREAD SEALANT ON ALL PIPE THREADS

NOTES, UNLESS OTHERWISE SPECIFIED;

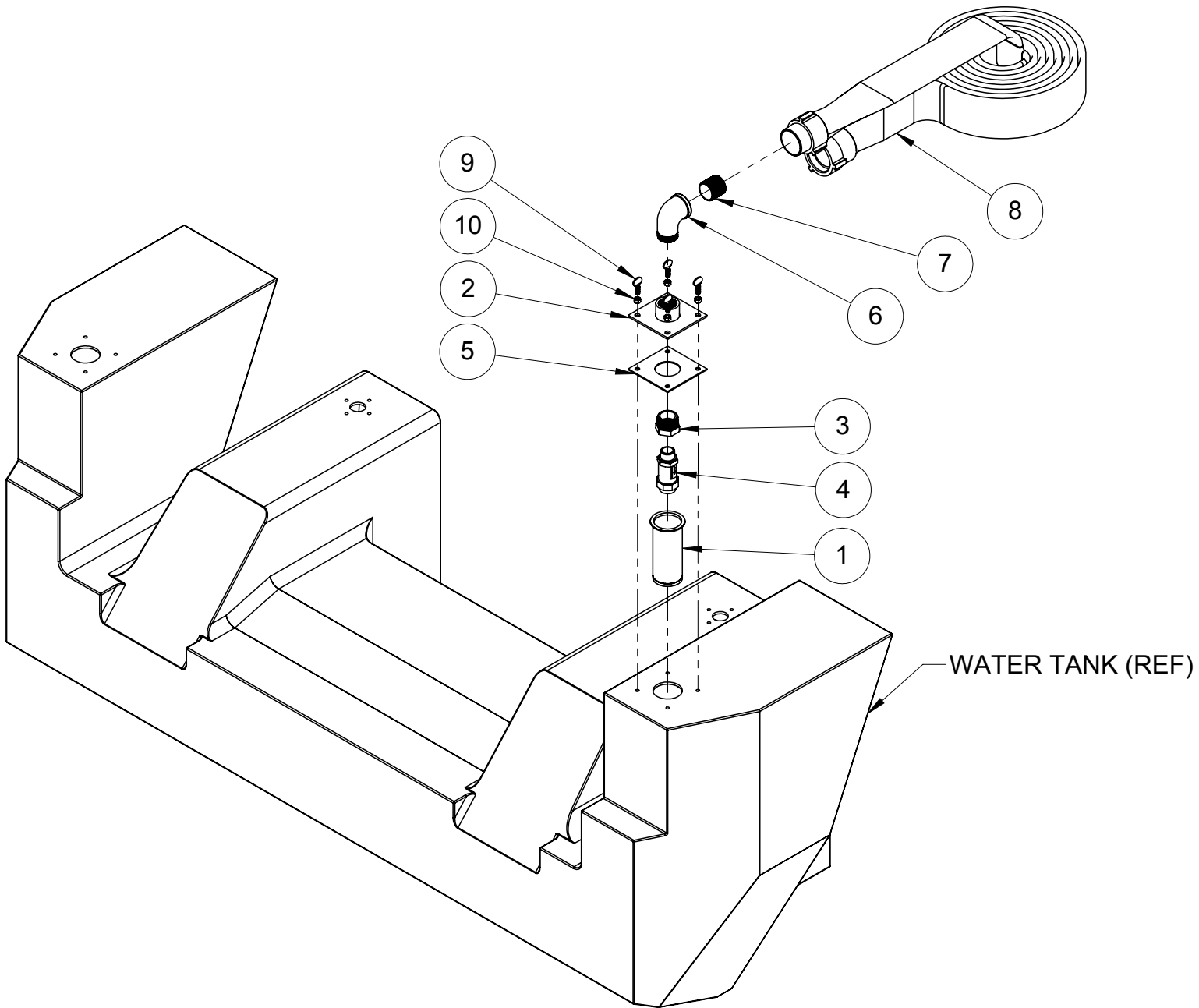
VIEW - A

323470 Rev J

ITEM NO.	PART NUM	QTY	DESCRIPTION
1	323167	1	TANK, WATER (220 GAL)
2	300556	1	GASKET
3	302876	1	PLUG- 1" NPT, 1/2 SQ, CNTRSUNK
4	039809	20	SCR-HX HD,PLTD,3/8-16X7/8 GR8
5	351231	2	GROMMET
6	351159	1	DRAIN PLUG ASSY, WATER TANK
7	REMOVED	REMOVED	
8	038896	1	NUT-LOCK,1/4-20 (CONELOCK)
9	300383	1	OUTLET ADPT WLD
10	REMOVED	REMOVED	
11	322912	1	ELB 3/4 MPT X 3/4 BARB NYLON
17	033149	2	SCR- HX HD PLT 3/8-16 X 2-1/2
18	601451	2	GROMMET AN931-A12-17
20	323471	1	SUPPORT WELDMENT, WATER TANK
21	323714	1	FENDER WLDMT TANK SUPPORT (RH)
22	323713	1	FENDER WLDMT TANK SUPPORT (LH)
23	030636	4	SCR- HX HD PLTD 1/2-13 X 1
24	030595	4	WASHER FLAT USS PLATED 1/2
27	030605	14	WASHER- LOC,SPLIT,PLTD,3/8 GR8
49	324401	0	VEHICLE LIGHT OPTIONS - M3
58	035478	4	HOSE FTG PUSH-ON, 1/2 X 3/8 MP
66	035605	8	WASHER FLAT USS PLATED 1/4
80	312044	1	TEE, FP-FP-MPT-6
86	896044040	1	HOSE 1/2 ID X 40" LG
87	896044052	1	HOSE 1/2 ID X 52" LG
89	030643	6	WASHER- LOC SPLIT PLTD 1/4 GR8
90	030703	6	NUT HEX 1/4-20 UNC
92	307959	1	RECTANGLE
93	215108	2	CLAMP HOSE #15 13/16 - 1-1/2
94	322069	1	FLOAT SENSOR ASSEMBLY
101	312045	2	FLANGE
102	307278	2	GASKET
103	307958	1	GASKET
106	308678	1	FTG-90 DEG,3/8 P X 1/2 HOSE
107	053308	5	CLAMP HOSE #8 7/16 - 29/32
113	030592	4	WASHER- LOC, SPLT PLTD 1/2 GR8
127	323731	2	PLATE, RUBBER FLAP
128	323732	2	RUBBER FLAP- WATER TANK



NOTES
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NOTES, UNLESS OTHER SPECIFIED:

- 1) USE THREAD SEALANT ON ALL PIPE THREADS.
- 2) ITEM (12) NOT SHOWN PART. USE TO BLOCK HOLE IN FENDER WHEN NO FLUSHER OPTION IS INSTALLED.

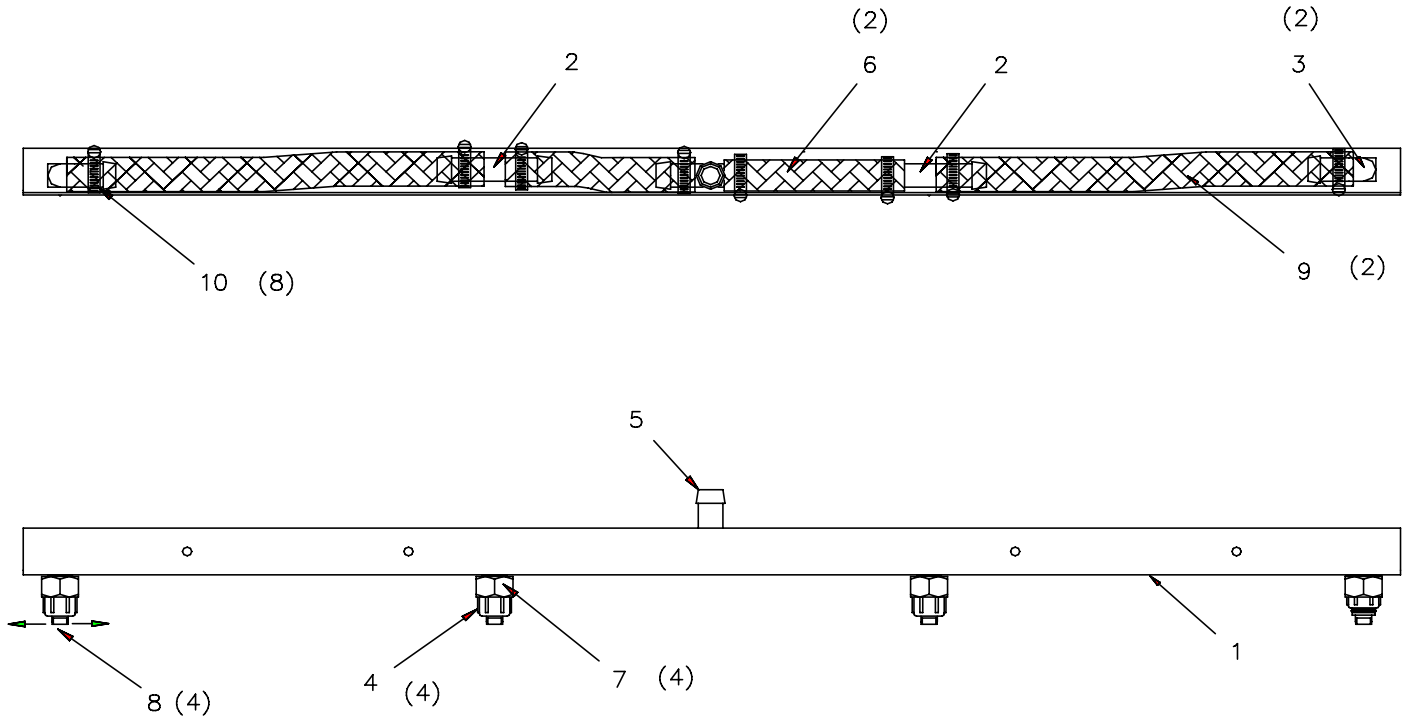


WATER TANK FILL INSTALLATION

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
REF	324456	WATER TANK FILL INSTALLATION	REF
1	E354986	STRAINER, WATER FILL	1
2	E307940	COVER PLATE WELDMENT	1
3	317513	FITTING, HYD, STR, MNPT-24 X FNPT-16, GALV	1
4	317512	CHECK VALVE-DUAL	1
5	E307958	GASKET	1
6	056018	ELBOW ST, 1-1/2 90 DEG GALV	1
7	045522	FITTING, HYD, NIPPLE, FNPT-24(1 1/2")x1 3/4, CLOSE, GALV.	1
8	046368	HYDRANT HOSE 15 FT.	1 (REF)
9	96966A852	SCR-THUMB, TYPE P, 3/8-16X1	4
10	030599	NUT, HEX, 3/8-16-UNC	4
11	350747	PLATE, COVER	1



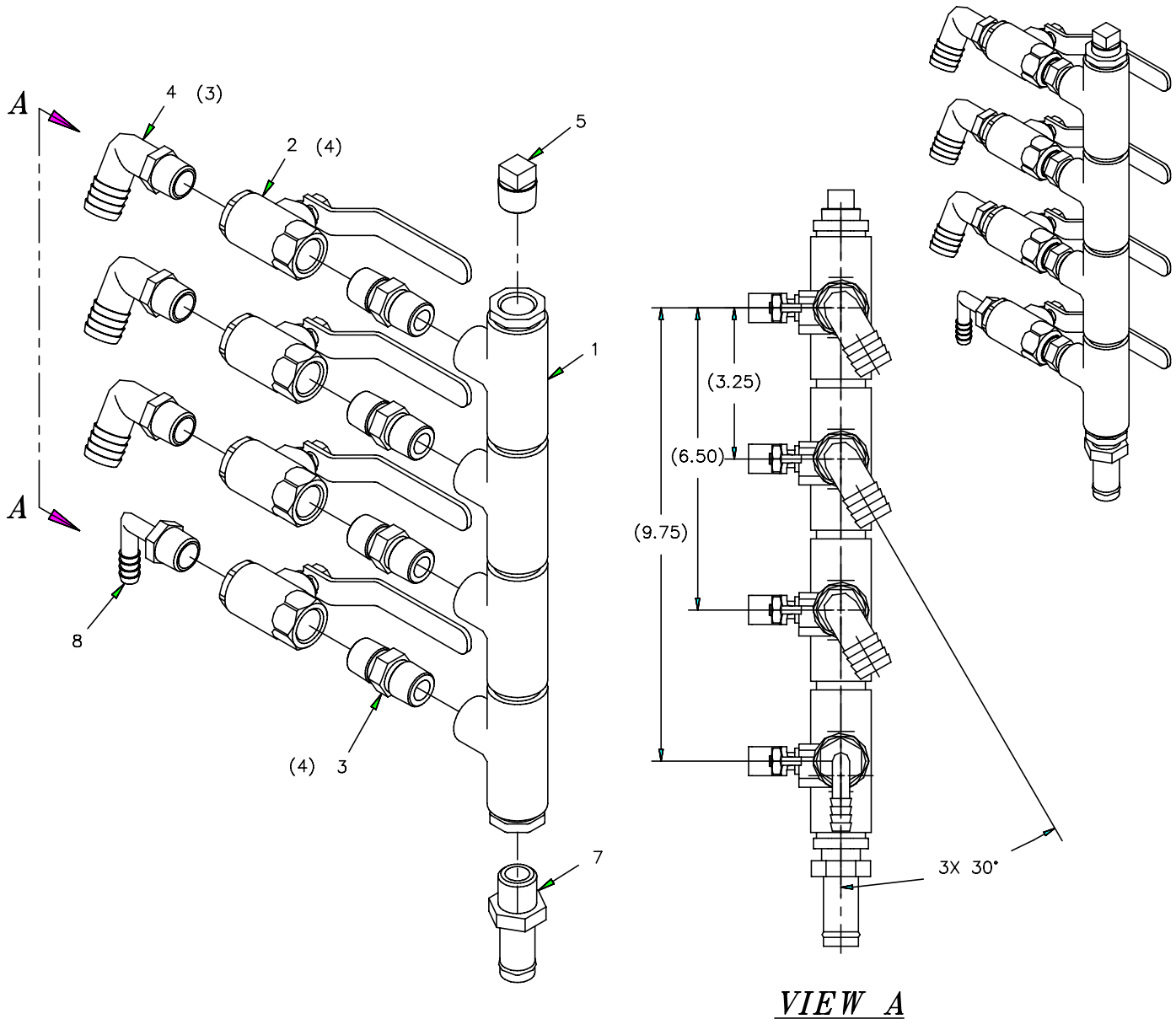
NOTES
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1. NOZZLE, ITEM 8, MUST BE INLINE WITH BRACKET, 4 PLACES. (ARROWS)

NOTES, UNLESS OTHERWISE SPECIFIED:

Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	322076	Pickup Broom Spray Bar Assy. C Ref		9	893522013	Hose, 3/4id X 13" Lg	2
1	322043	Bracket, Front Spray Bar	1	10	324482	S Snap-grip Clamp 61/64-1 3/32	8
2	322034	Tee 11/16male Un X 3/4h	2				
3	322036	Elbow 11/16male Un X 3/4h	2				
4	322038	Swivel Nut 11/16fem Un	4				
5	322032	Tee 3/4 Hose	1				
6	893522006	Hose, 3/4 X 6" Lg	2				
7	322037	Hex Nut 11/16fem Un	4				
8	322039	Nozzle Flat Spray 80deg Tp	4				



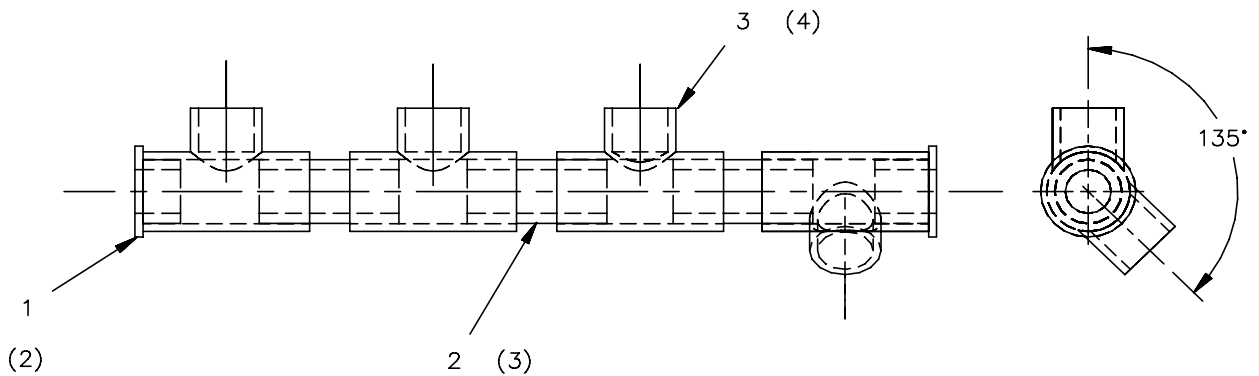
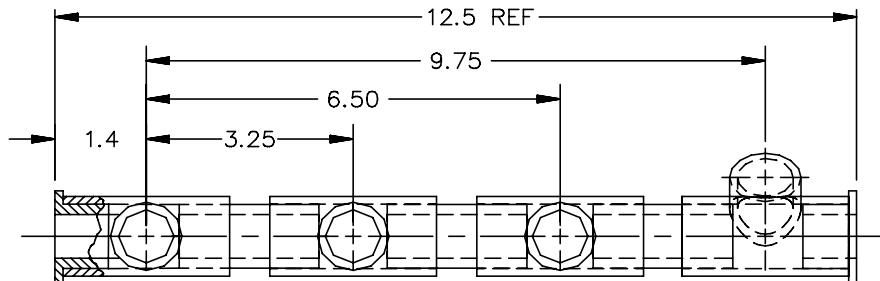
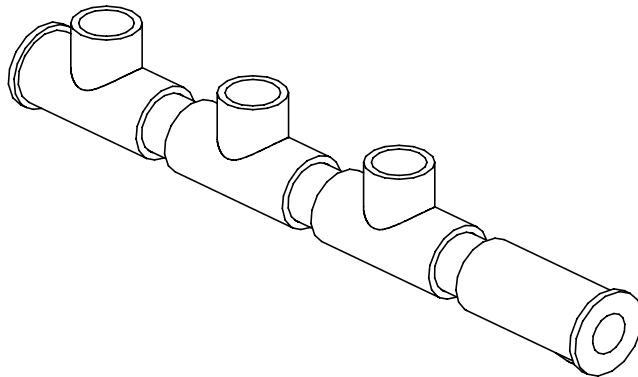
Item	Pt No.	Description	Qty
-	324907	Water Valve Manifold Inst.	B Ref
1	319663	Water Valve Manifold Assy.	1
2	204325	Valve Ball 1/2	4
3	034617	Pipe Nipple, Mp-mp-8	4
4	319662	El 1/2mpt X 3/4 Hose Barb(Nyl)	3
5	030131	Plug Mp-8, Galv Pipe	1

Item	Pt No.	Description	Qty
6	896365	Sealant-pipe Thd	1.00000
7	315138	Hose Ftg-push-on 3/4h X 1/2mp	1
8	324910	Elbow, Nylon 1/2mpt X 3/8 Hose	1





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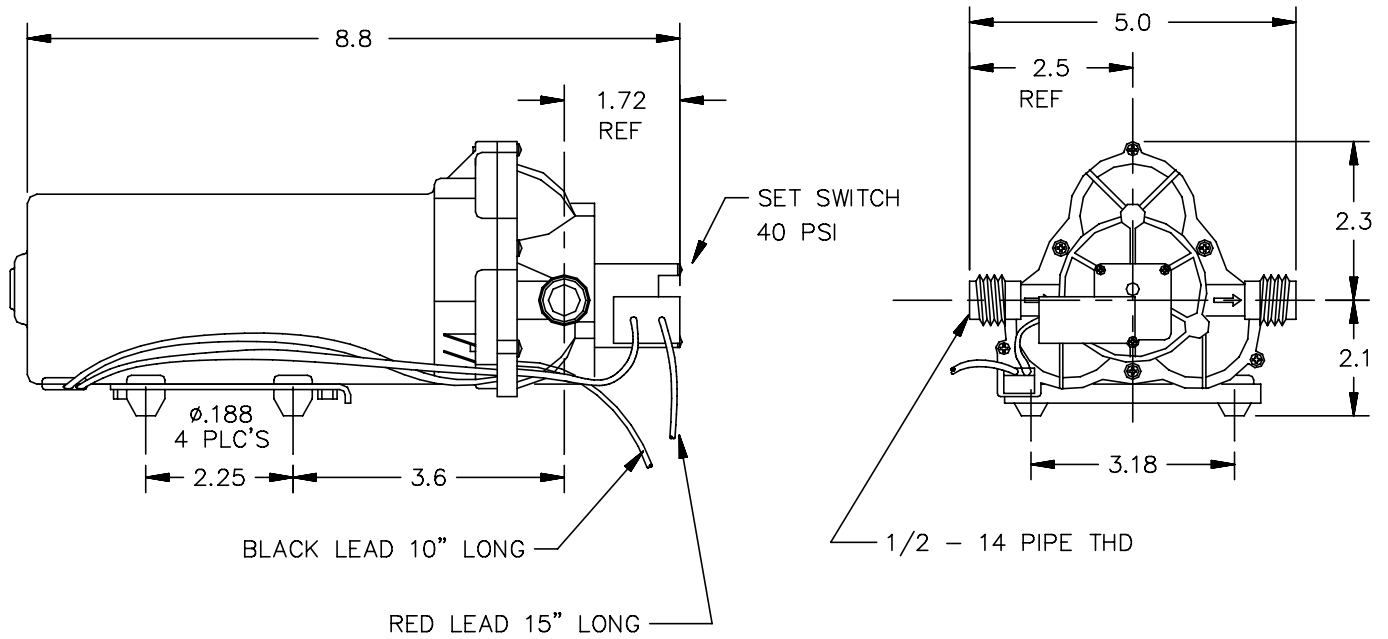
Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	319663	Water Valve Manifold Assy.	C Ref	4	896771	Primer-pvc, Low Voc	0
1	314783	Red. Bush, 3/4 Spg X 1/2 Npt	2	5	896772	Cement-pvc, Low Voc	0
2	314785	Nipple-pvc, 3/4 X 2.2 Lg	3				
3	314784	Tee, Pvc, 3/4 X 3/4 X 1/2 Npt	4				






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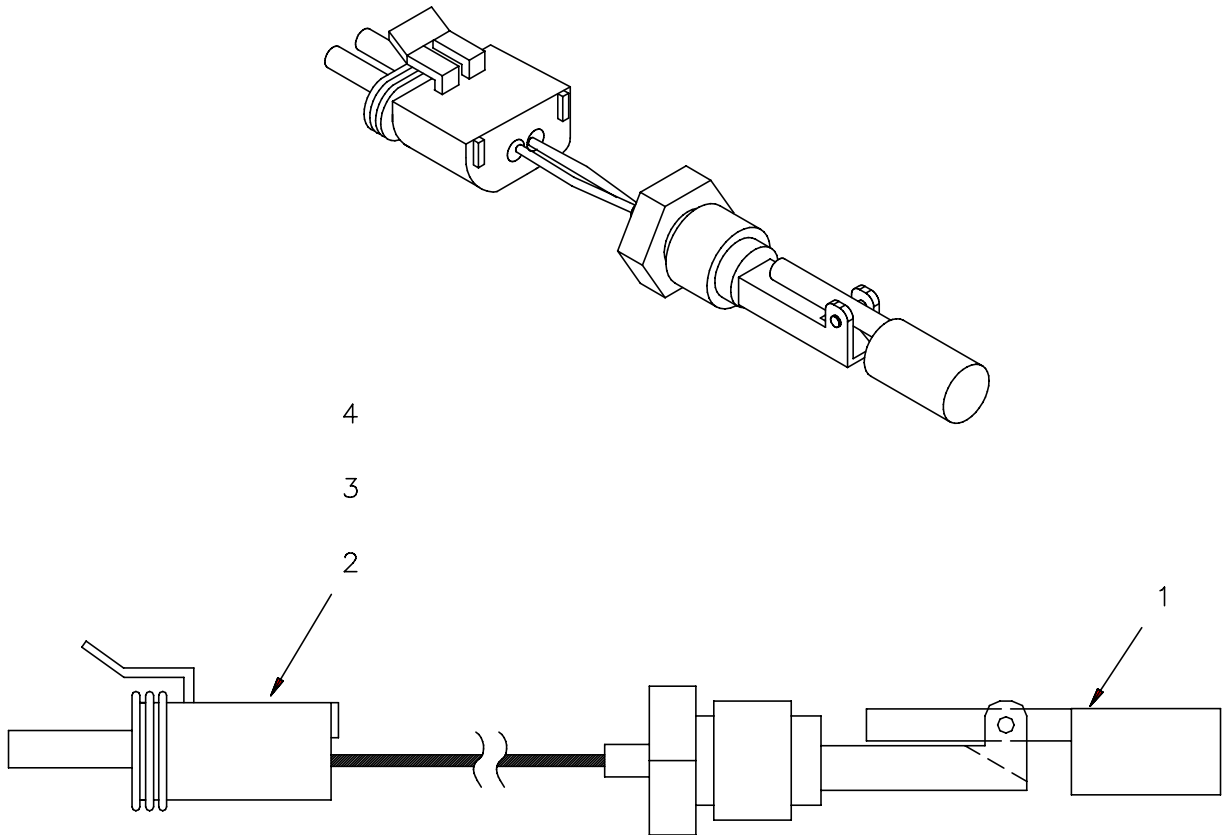


ALL DIM'S REF

Item	Pt No.	Description	Qty	395300	Diaphragm	0
-	313915	Water Pump Assy	A Ref			
	395299	Valve Kit	0			



NOTES
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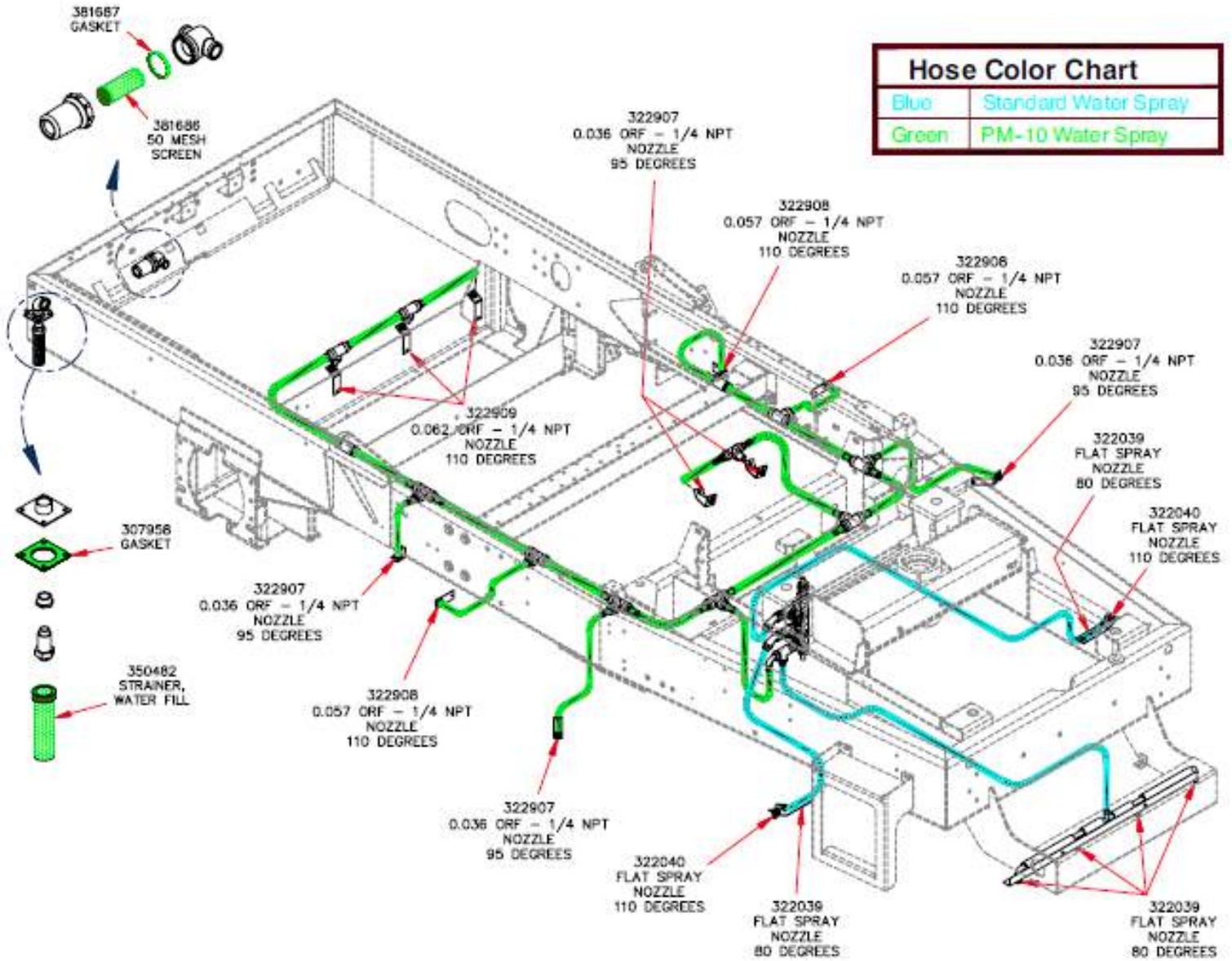
Item	Pt No.	Description	Qty					
-	322069	Float Switch Assembly	E	Ref	3	353111	Terminal-female (Jd)	2
					4	315686	Seal-Wire (Kf)	2
1	319613	Float Switch	C	1				
2	353110	Conn-tower Half (Jc)		1				





NOTES
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Pickup Broom Spray Assembly





CHAPTER 9

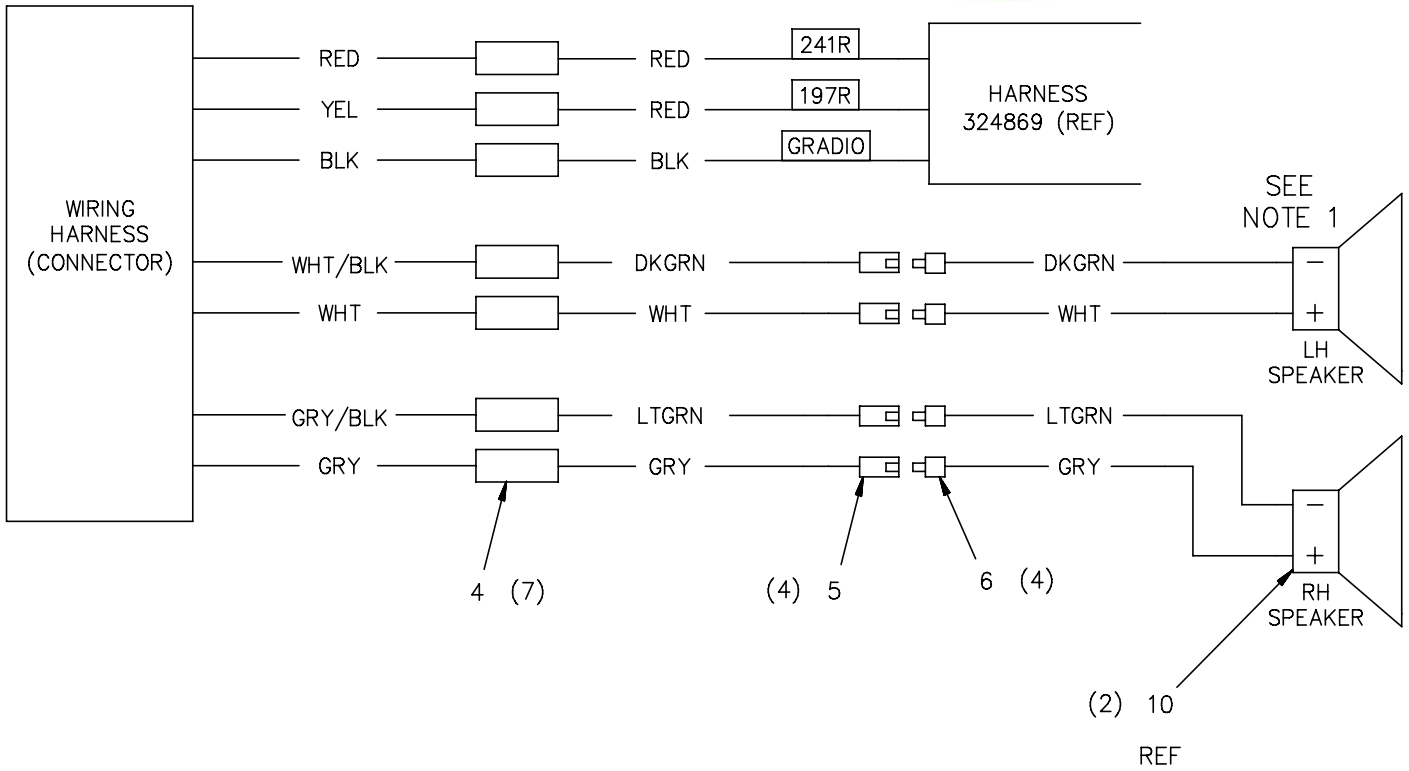
Group--Options

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Hopper Access Door Assembly	9.24
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Front Brush Installation	9.39
Front Brush Hydraulics ..	9.44
Arm Joystick Installation	9.52
Strobe Light Installation (Cab Mounted)	9.54
Strobe Light Installation	9.57
Arrow Stick Installation (Halogen)	9.60
Arrow Stick Assembly (Halogen)	9.67
Arrow Stick (Halogen)	9.69
Turbo Precleaner option	9.71
Air Gap Water Tank Fill Instl.....	9.73
AutoLube Installation	9.75

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CHAPTER 9

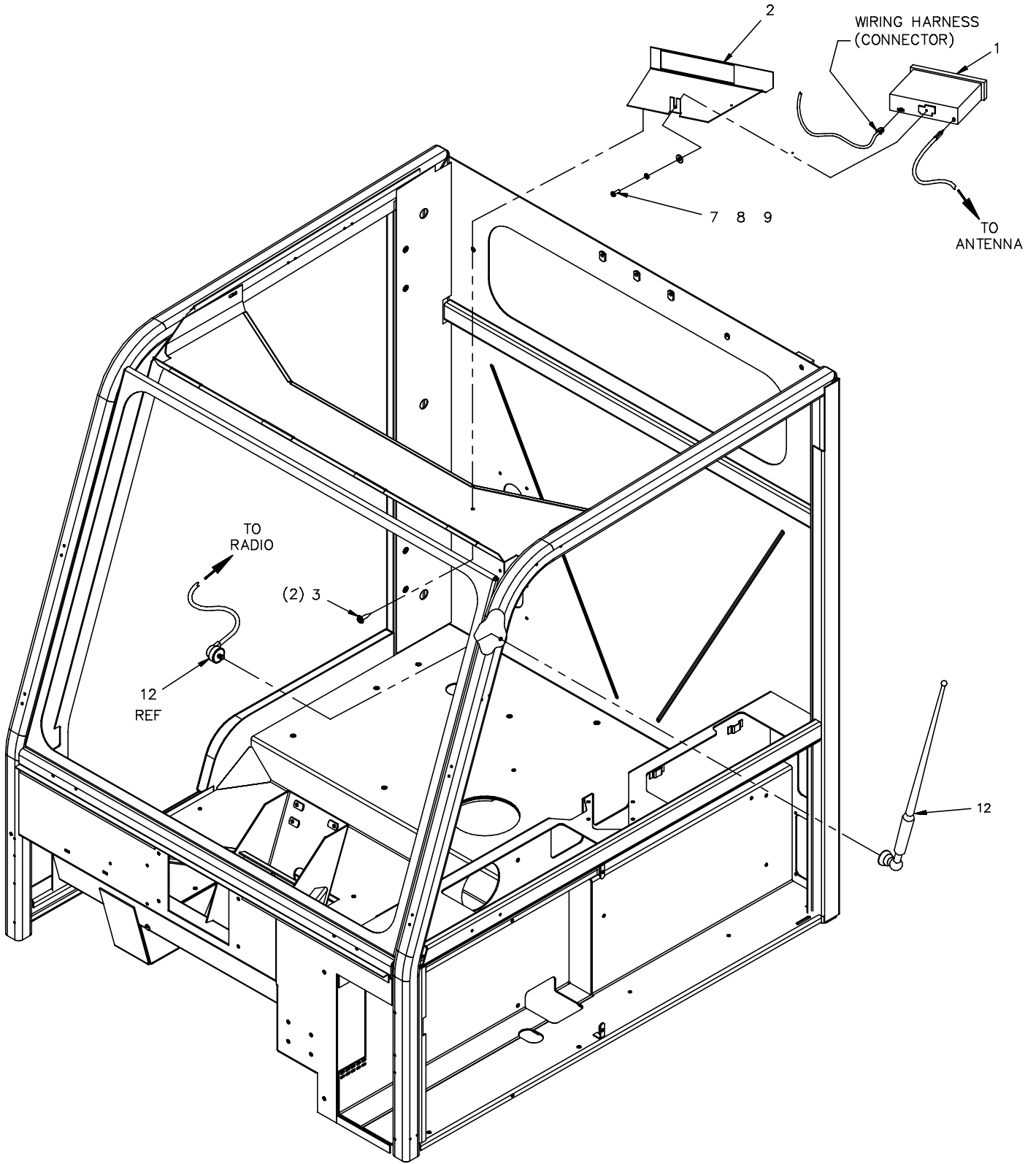


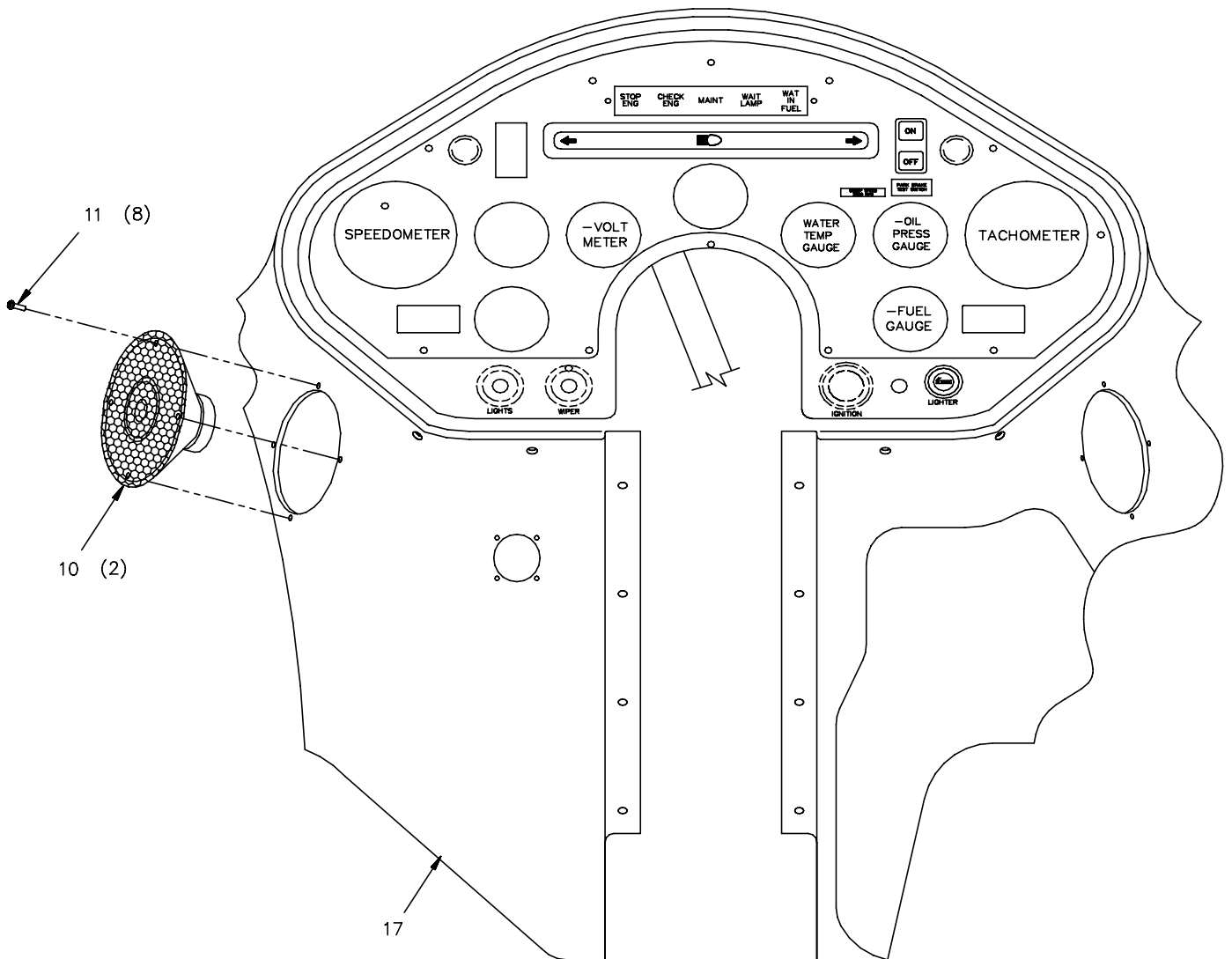
CUT AND ASSEMBLY SHEET

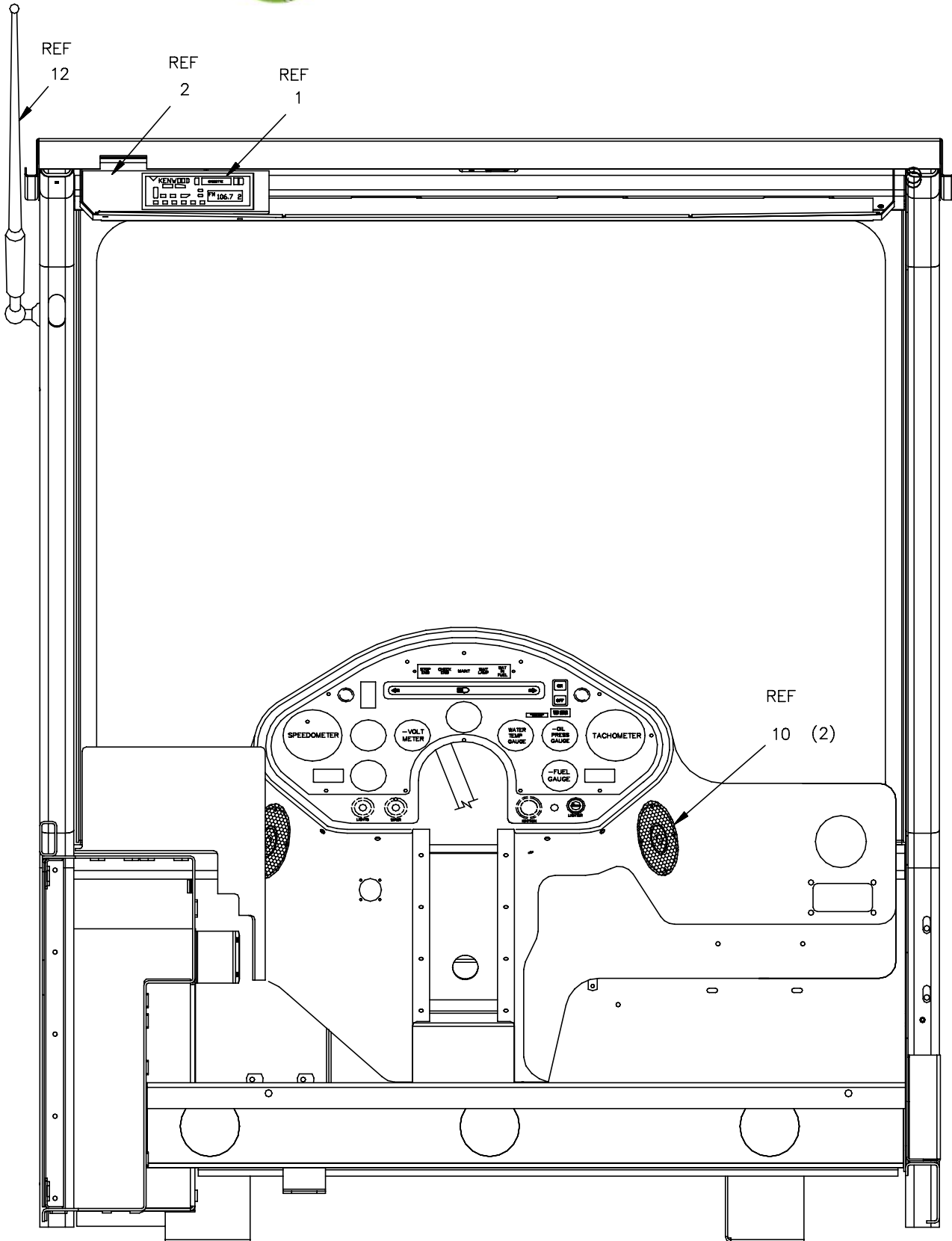
AWG	COLOR	LINE #	LABEL	LNG	FROM	TO	STOCK #	TERM-1		TERM-2	
								JSC P/N	COD	JSC P/N	COD
18	DGRN		LFTSPK	90	RD (WHT/BLK)	SPK CONNECT	896871	352447		352456	NU
18	DGRN		LFTSPK	12	LF SPK (-)	SPK CONNECT	896871	SEE NOTE 1		352445	NJ
18	WHT		LFTSPK	90	RADIO (WHT)	SPK CONNECT	896867	352447		352456	NU
18	WHT		LFTSPK	12	LF SPK (+)	SPK CONNECT	896867	SEE NOTE 1		352445	NJ
18	LGRN		RTSPK	90	RD (GRY/BLK)	SPK CONNECT	896870	352447		352456	NU
18	LGRN		RTSPK	12	RT SPK (-)	SPK CONNECT	896870	SEE NOTE 1		352445	NJ
18	GRY		RTTSPK	90	SEE UP	SPK CONNECT	896868	352447		352456	NU
18	GRY		RTSPK	12	SEE UP	SPK CONNECT	896868	SEE NOTE 1		352445	NJ

1. SOLDER WIRES TO THE SPEAKER.

NOTES:









Radio Installation

CHAPTER 9

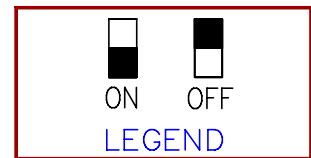
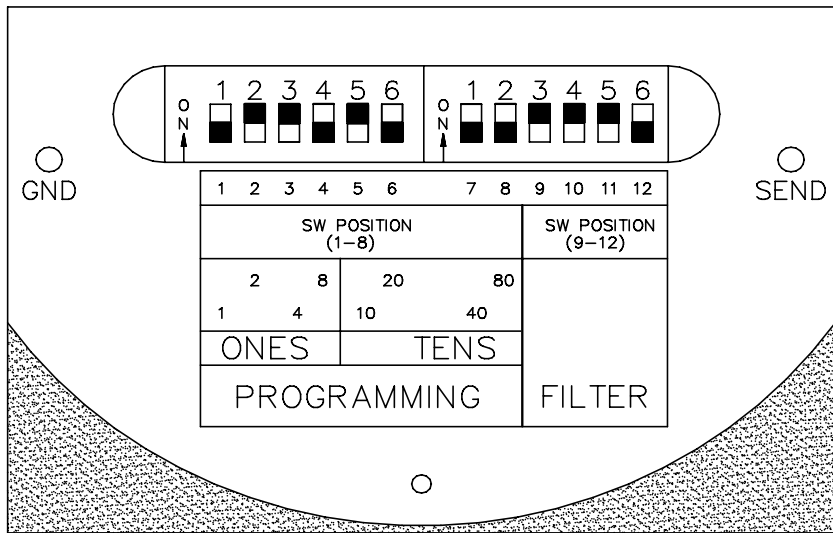
Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	325256	Radio Installation	B Ref	13	896871	Wire 18 Ga Green	102
1	375103	Radio Am/Fm/Cd Player	1	14	896867	Wire 18 Ga White	102
2	325127	Bracket, Radio	1	15	896870	Wire 18 Ga Light Green	102
3	325138	Scr Typ A #10x1/2 Ovl W/Cs Was	2	16	896868	Wire 18 Ga Gray	102
4	352447	Permaseal Term,Butt 22-18 Ga	7	17	353605	Dashboard, Cab	1
5	352456	Permaseal Trm,Bullet,16-14(Nu)	4				
6	352445	Permaseal Term(W/D)Bullet (Nj)	4				
7	023639	Scr- Pn Hd Sltd Pld 8-32 X 1/2	1				
8	035604	Washer Lock Split #10 Plated	1				
9	036645	Washer Flat Sae Plated #10	1				
10	324991	Speaker, Radio - 4" Dual Cone	2				
11	611474	Scr-pan Phil Teks #6 X 1/2	8				
12	315313	Antenna	1				





NOTES
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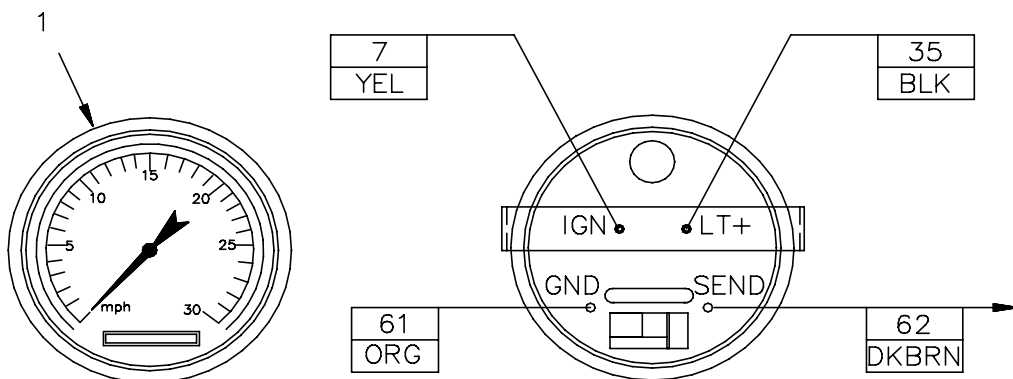
CHAPTER 9



PROGRAM: OFF ON ON OFF ON OFF OFF OFF ON ON ON OFF

 ONES TENS FILTER

PROGRAM = 0110-1000-1110



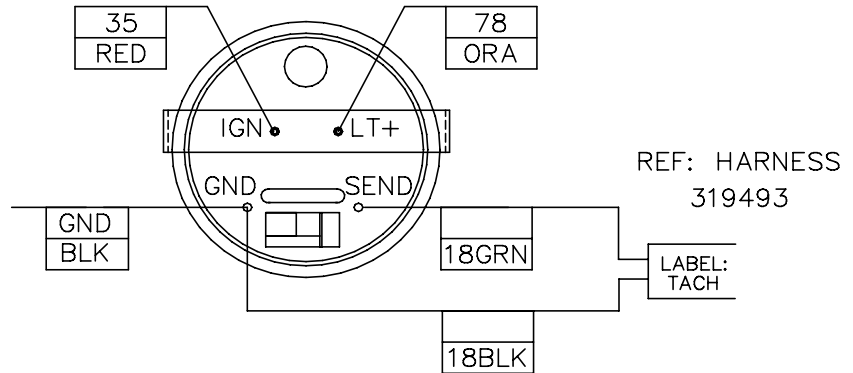
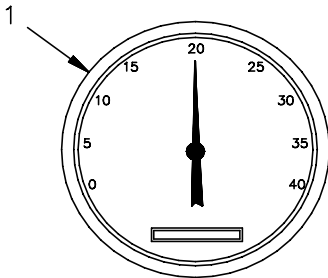
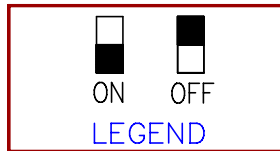
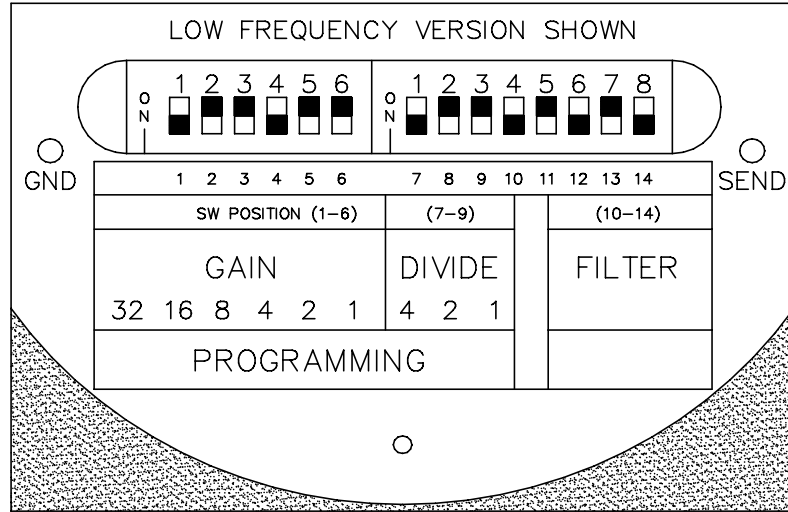
$$\begin{aligned}
 & \text{TIRE/REV} \times \# \text{ OF TEETH} \times \text{MAX SPEED} \times \text{RATIO} \\
 & 501 \times 12 \times 30 \times 21 = \frac{3787560(3788)}{3600} = 1052 \text{ FSF} \\
 & \frac{1052 \text{ FSF}}{66.66 \text{ CONSTANT (d)}} = 1578(16) \text{ PROGRAM DIVIDE NO.}
 \end{aligned}$$

Item	Pt No.	Description	Qty
-	311057	Speedometer 0-30 MPH	B Ref
	309578	Speedometer 0-30 MPH	1



NOTES
NOTES

CHAPTER 9



5. PROGRAM FOR ALL CUMMINS DIESEL ENGINE, TACHOMETER DRIVEN BY ENGINE ECM

PROGRAM: ON OFF OFF ON OFF OFF ON OFF OFF ON OFF ON OFF ON

GAIN DIVIDE FILTER

PROGRAM = 100100, 1001, 0101

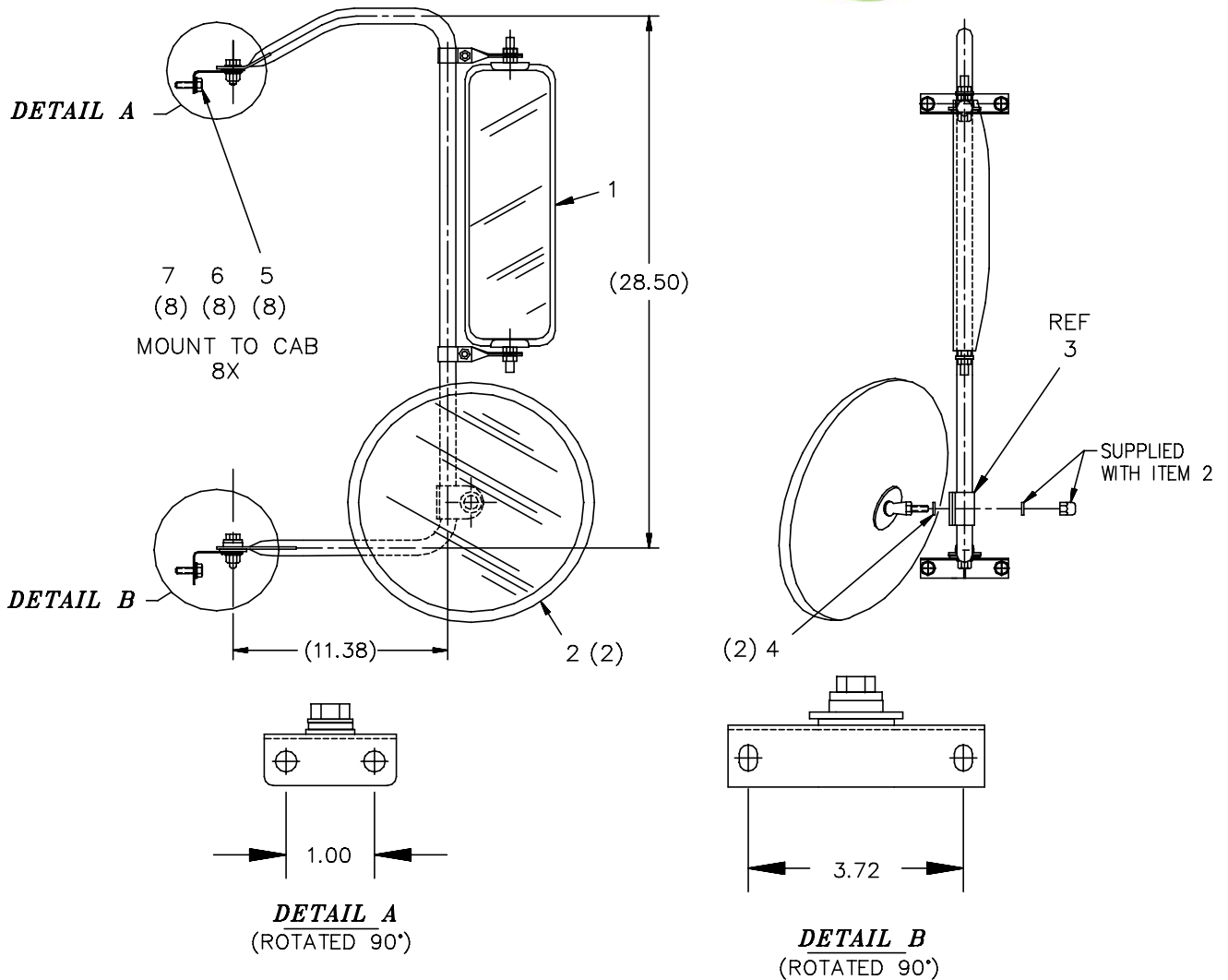
Item	Pt No.	Description	Qty
-	320280	Tachometer- Programmable	Ref
1	311702	Tachometer- 4k RPM Alt	1





NOTES
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CHAPTER 9



2. ALL MTG.HARDWARE EXCEPT ITEM 3,4,5,6 & 7 ARE SUPPLIED BY VENDOR.

1. ALL DIMENSIONS ARE REF.

Item	Pt No.	Description	Qty
-	324798	Mirror Assembly (Opt)	B Ref
1	306771	Mirror (Set Of 2)	1
2	04096901	Mirror 12in Dia	2
3	306066	Clamp-short	0
4	038266	Washer Flat Sae Plated 3/8	2
5	609606	Washer Flat Sae Plated 1/4	8
6	030643	Washer- Loc Split Pltd 1/4 Gr8	8
7	031428	Scr- Hx Hd Pltd 1/4-20x1/2 Gr8	8





NOTES
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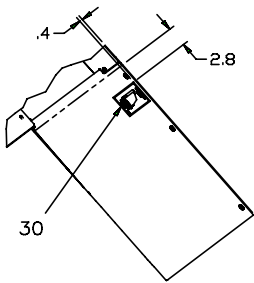
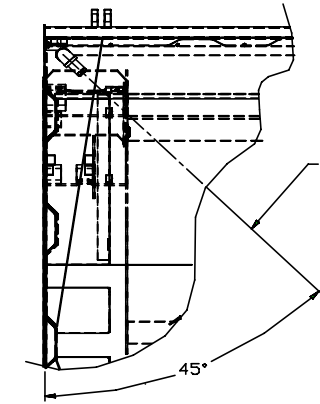
Elevator & Hopper Flusher Installation



VIEW - AA

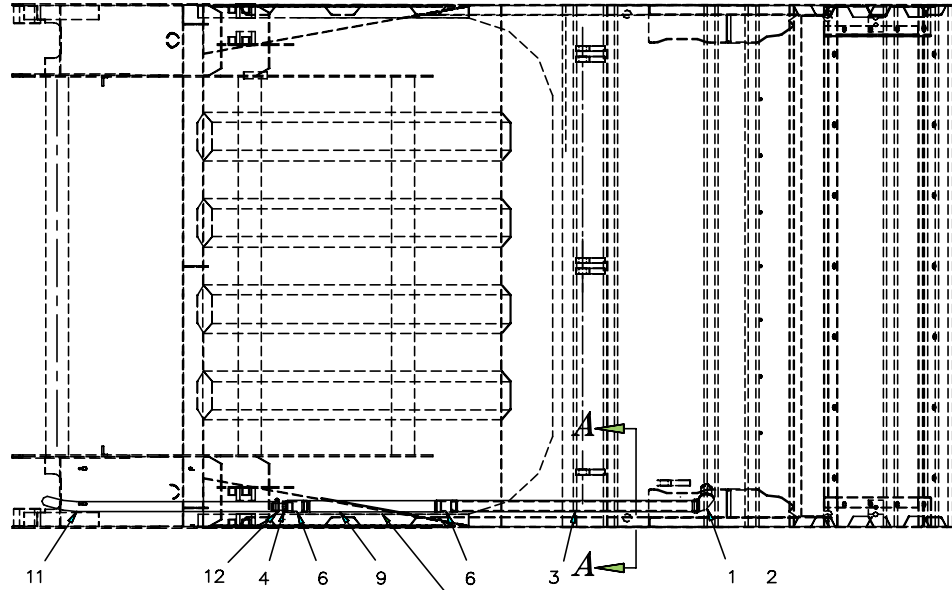
SCALE: NONE

TIGHTEN ELBOW SO THAT NOZZLE
CENTERLINE IS AT 45° TO WALL



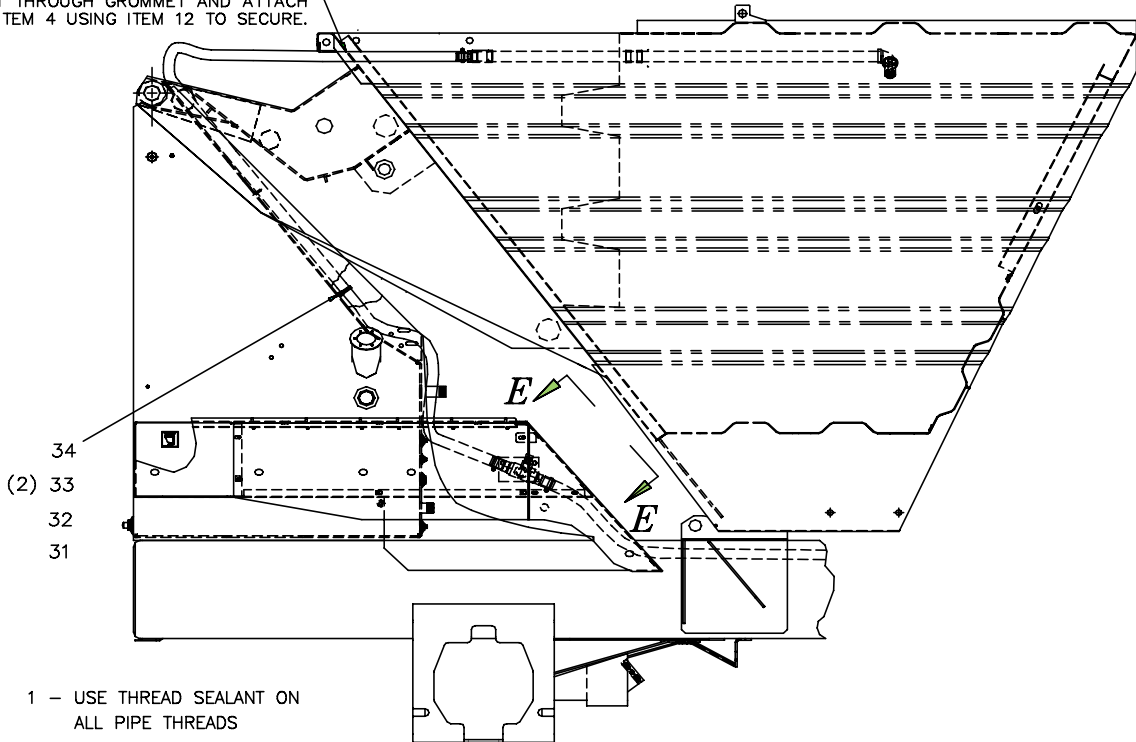
VIEW - EE

SCALE: NONE



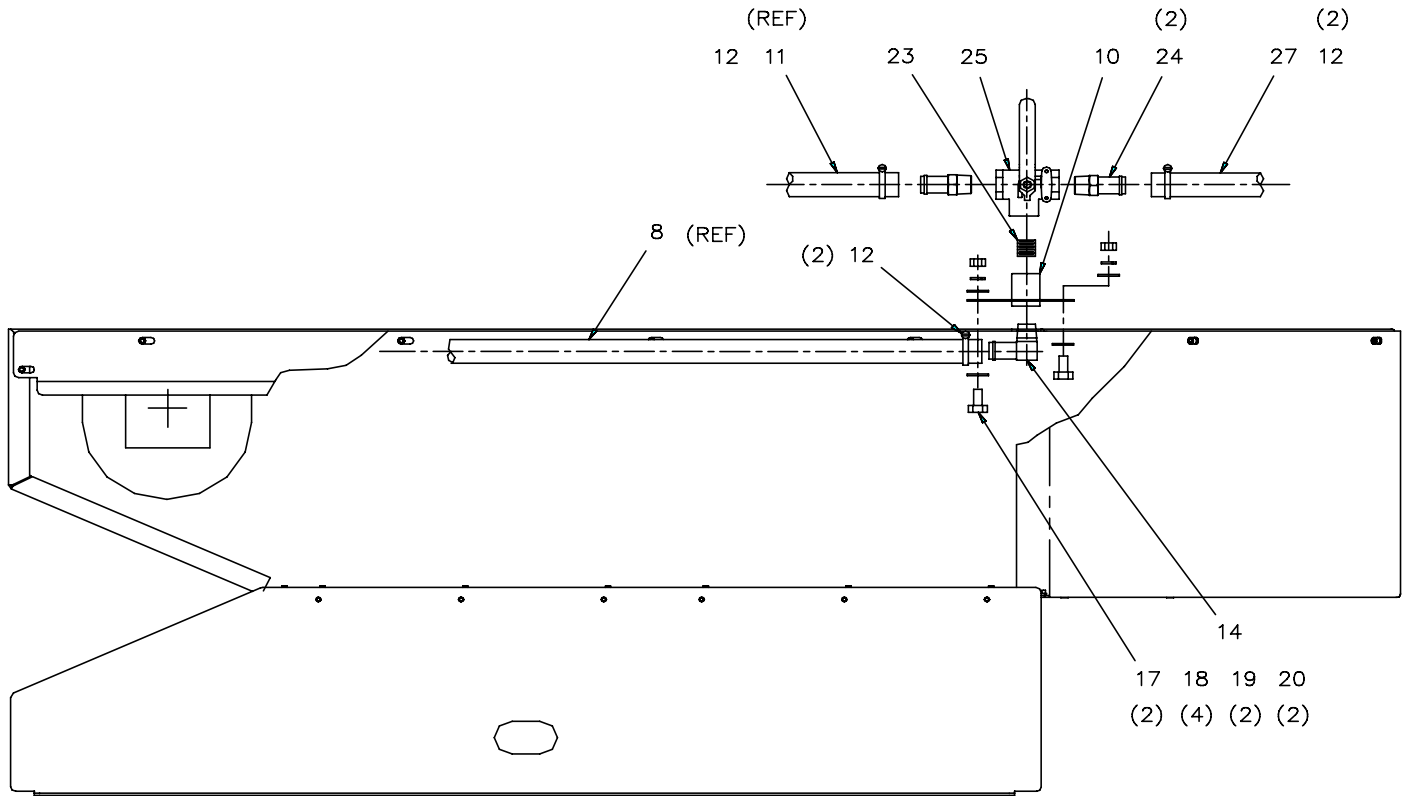
REMOVE PLUG FROM REAR FLOOR PLATE
AND INSTALL GROMMET ITEM 5. FEED HOSE
ITEM 11 THROUGH GROMMET AND ATTACH
TO ITEM 4 USING ITEM 12 TO SECURE.

REMOVE COVER PLATE AND INSTALL
PLATE WELDMENT ITEM 9 USING EXISTING
HARDWARE.



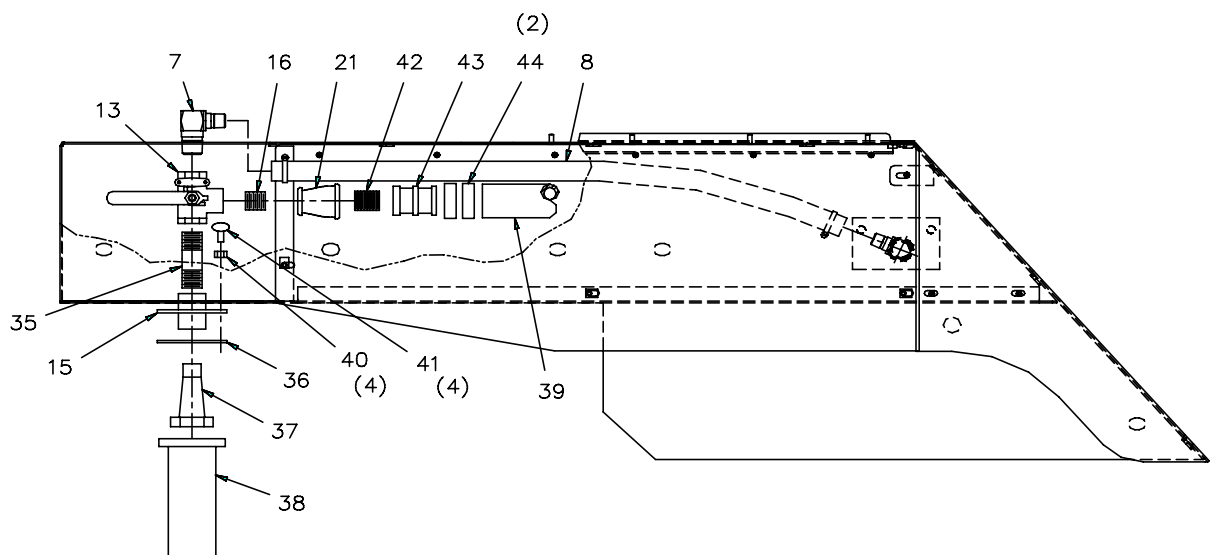
1 - USE THREAD SEALANT ON
ALL PIPE THREADS

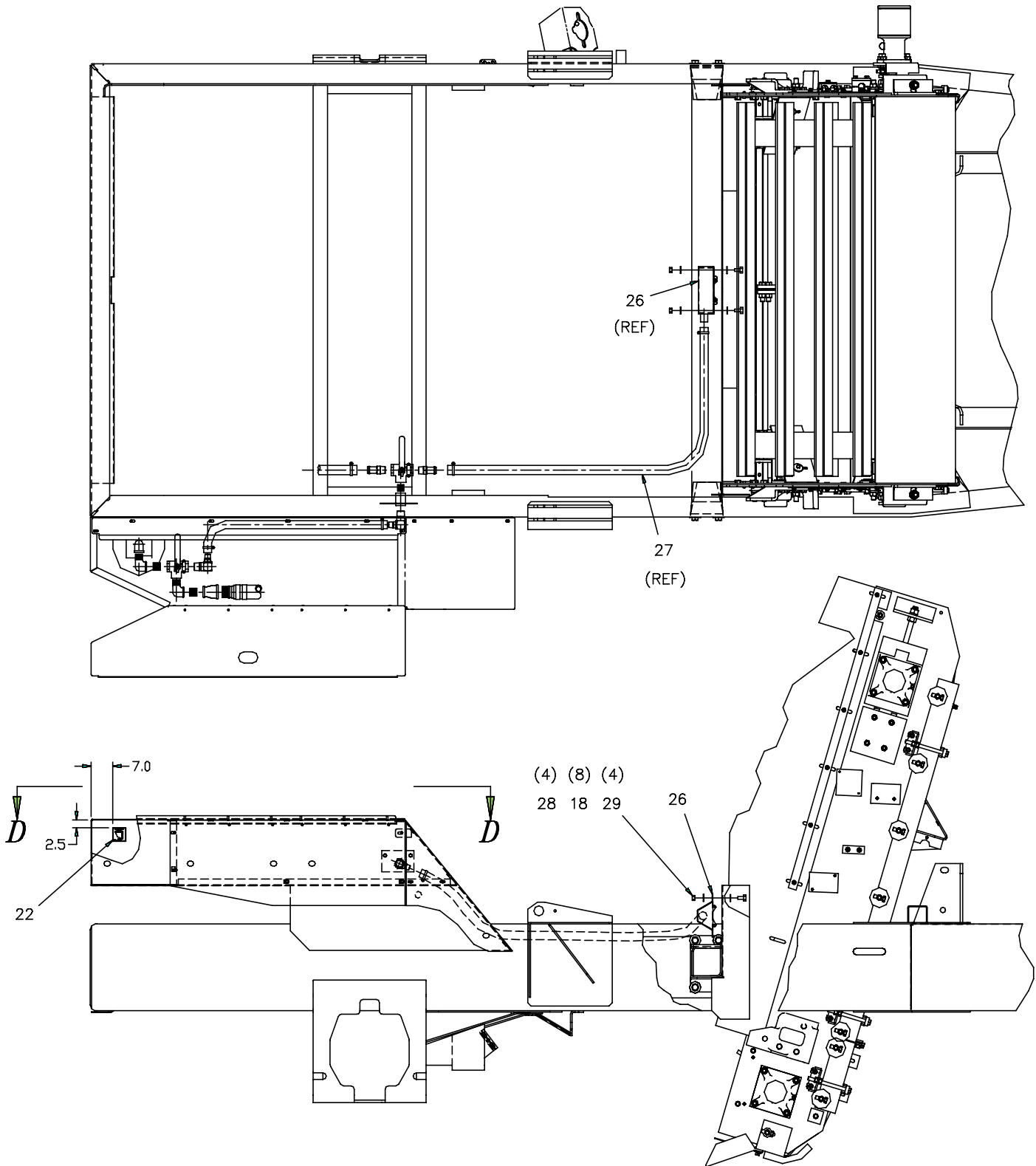
NOTES, UNLESS OTHERWISE SPECIFIED;



VIEW - DD

SCALE: NONE







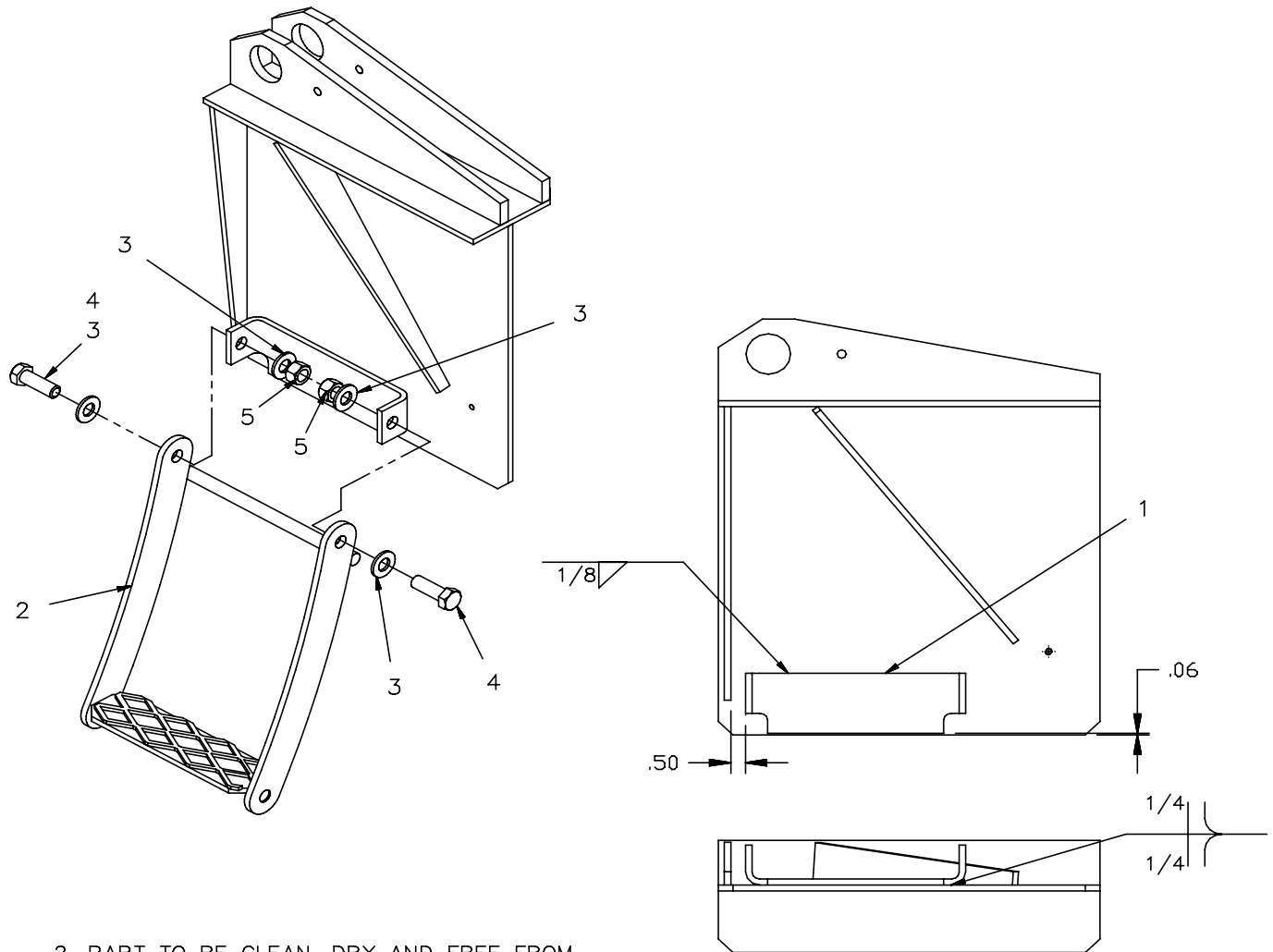
Elevator & Hopper Flusher Installation

CHAPTER 9

Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
–	323150	Elevator/Hopper Flusher Instl.	*H Ref	31	311629	Clamp, Loop	1
1	324115	Nozzle, Hopper Flusher	1	32	030643	Washer – Loc Split Pltd 1/4 Gr8	1
2	324119	Elbow, 90 Deg – 1” Pipe Galv	1	33	035605	Washer Flat Uss Plated 1/4	2
3	324131	Nipple, 1” Npt X 15.0”	1	34	030703	Nut Hex 1/4 – 20 Unc	1
4	052171	Nipple – Mh – mp – 16	1	35	310679	Nipple, 1” Pipe X 4” Lg Galv	1
5	309752	Grommet An931 – a24 – 28	1	36	307958	Gasket	1
6	052172	Coupling 1” Pipe Galv	2	37	317512	Check Valve – dual	1
7	324702	Elbow Mp – Hb90 – 16 – 16	1	38	350482	Strainer, Water Fill	1
8	891474050	Hose, 1” Id x 50” Lg.	1	39	046368	Hose Assy Filler	1
9	324177	Plate Wldmt Hopper Flusher	1	40	030599	Nut – Plated, 3/8 – 16 Gr8	4
10	323087	Plate Weldment	1				
				41	104649	Scr – thumb, Type P, 3/8 – 16x1	4
11	891474120	Hose 1” Id X 120 Lg	1	42	045522	Nipple Close, 1 – 1/2 Galv	1
12	215108	Clamp – 13/16 – 1 3/4 Id	6	43	048217	Adapter Hose	1
13	323152	Ball Valve, 3 Way – 1” Npt	1	44	045573	Clamp Hose	2
14	315080	EI – 90 Deg, 1” Hose X 3/4 Mpt	1	–	324724	Bushing – Mp – Fp – 42 – 16	1
15	323090	Flange Weldment	1				
16	310243	Nipple, Pipe, Mp – Mp – 16	1				
17	030617	Nut – Plated 5/16 – 18	4				
18	030489	Washer Flat Uss Plated 5/16	2				
19	030373	Washer – Loc Split Plt 5/16 Gr8	2				
20	030483	Scr – Hxhd Pltd 5/16 – 18x3/4 Gr8	2				
21	352301	Bell Reducer, 1 – 1/2 X 1	1				
22	324452	Decal – Fill/Flush	1				
23	030085	Nipple – Pipe Close 3/4 Galv	1				
24	322018	Adaptor – Str, 3/4p X 1h	2				
25	322932	Valve 3/4” Npt 3 Way	1				
26	323075	Flusher Weldment	1				
27	891474075	Hose, Rubber – 1” Id X 75” Lg	1				
28	023559	Nut – Loc Nyl Insert Pl 5/16 – 18	4				
29	034800	Scr – hx Hd, Plt, 5/16 – 18x5/8 Gr8	4				
30	323625	Decal – Flush Hopper/Elevator	1				



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2. PART TO BE CLEAN, DRY AND FREE FROM WELD SPLATTER, SCALE AND RUST.
1. REMOVE BURRS AND BREAK SHARP EDGES.
- NOTES, UNLESS OTHERWISE SPECIFIED:

Item	Pt No.	Description	Qty
-	325065	Hopper Inspection Step Instl	A Ref
1	325067	Bracket, Step Mount	1
2	325068	Step Wldmt	1
3	023687	Washer Flat Sae Plated 1/2	4
4	033151	Scr - Hx Hd 1/2-13 X 1-1/2 Gr8	2
5	034599	Nut-nyl Insert, Plated, 1/2-13	2
6	10234-2	Decal - "NO STEP", Red	1
7	896688	Tape - 1" Red (Reflective)	1/3 ft

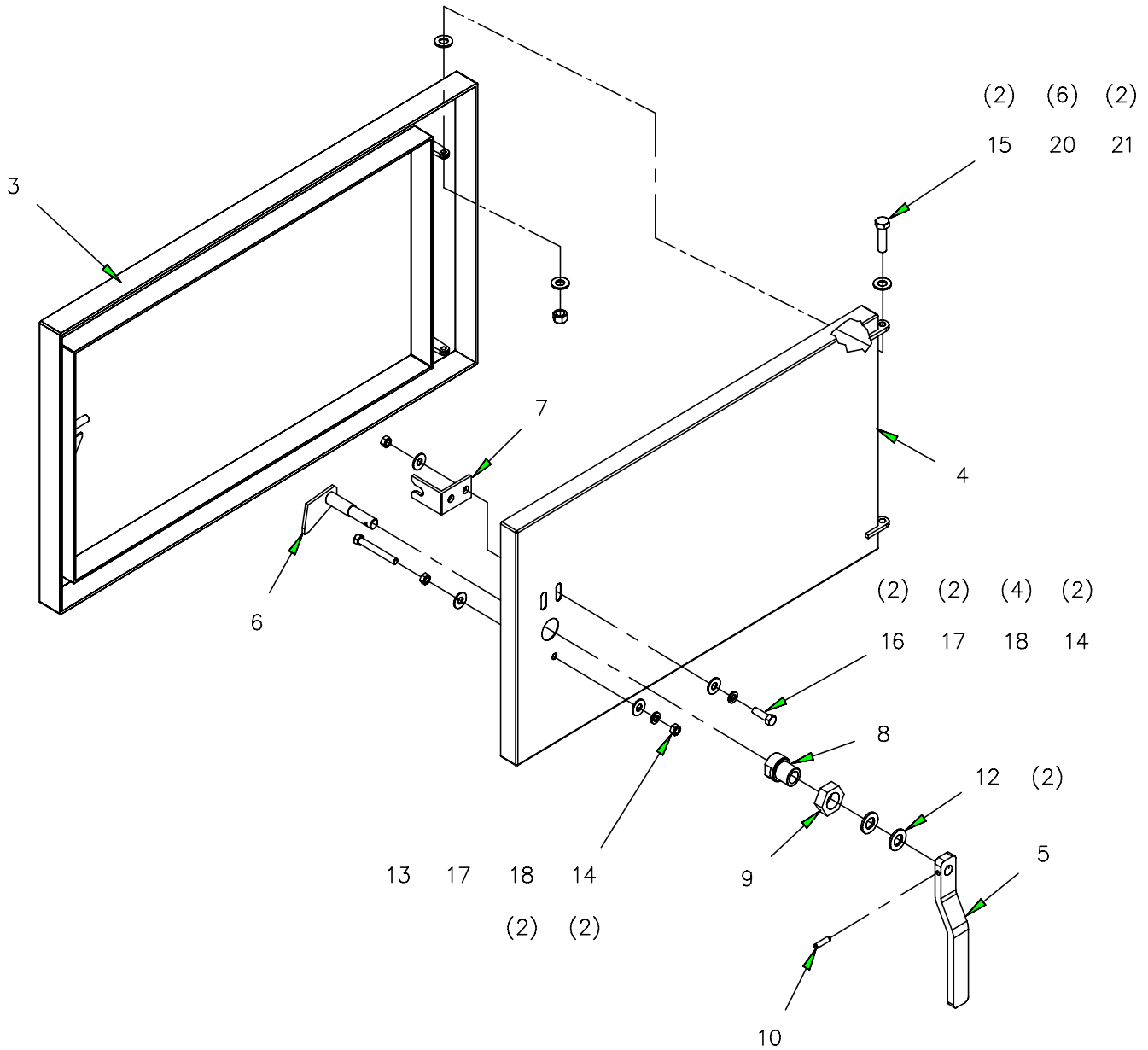




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- 2. USE DOOR SEAL (896308) AS REQUIRED.
- 1. USE LOCTITE (895109) AS REQUIRED ON ALL SCREWS.

NOTES:



Hopper Access Door Assembly

CHAPTER 9

Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	317335	Hopper Access Door Assembly A	Ref				
3	317026	Door Frame Wldmt	1	17	030605	Washer- Loc,Split,Pltd,3/8 Gr8	3
4	317028	Access Door Wldmt	1	18	030557	Washer Flat Uss Plated 3/8	2
5	317033	Handle, Access Door	1	20	023687	Washer Flat Sae Plated 1/2	6
6	317037	Pin Wldmt-latch	1	21	900378	Nut-lock,Plated,1/2-13	6
7	317275	Stop Bracket Wldmt	1	22	891091088	Seal-door	1
8	317044	Hub-door Latch	1	23	896308	Contact Cement 1.00000	0
9	039734	Nut-jam, 1-1/8-12, Gr8	1				
10	317340	Roll Pin, 1/4 X 1-1/4 Stnlss	1				
11	895109	Loctite 242 (Blue) 1.00000	0				
12	035561	Washer Flat Sae Pltd 5/8 Gr8	2				
13	033309	Scr-hx Hd,Pltd,3/8-16 X 3	1				
14	030599	Nut- Plated, 3/8-16 Gr8	4				
15	606999	Washer	2				
16	034423	Scr-hx Hd,3/8-16x1 Gr8	2				

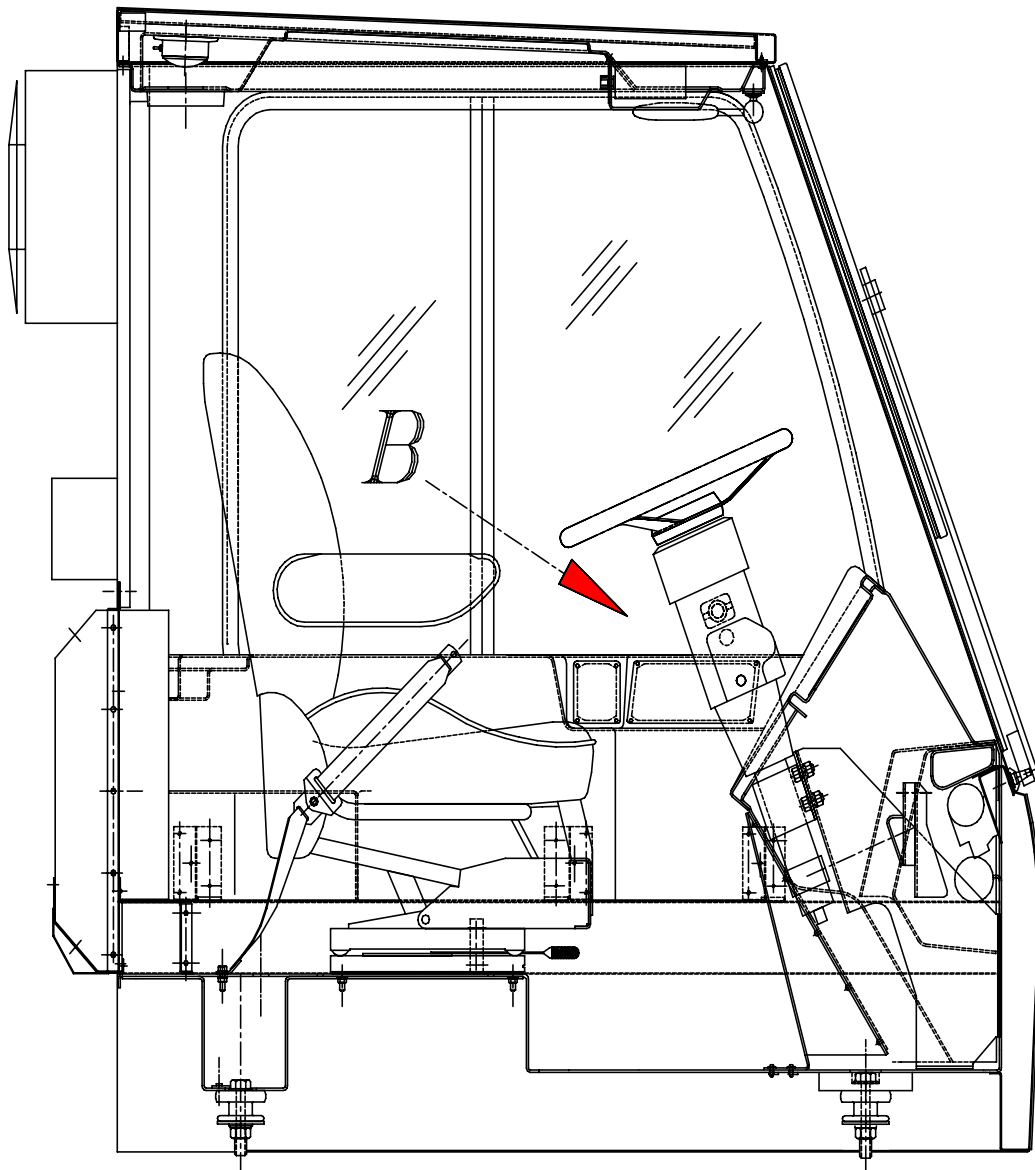


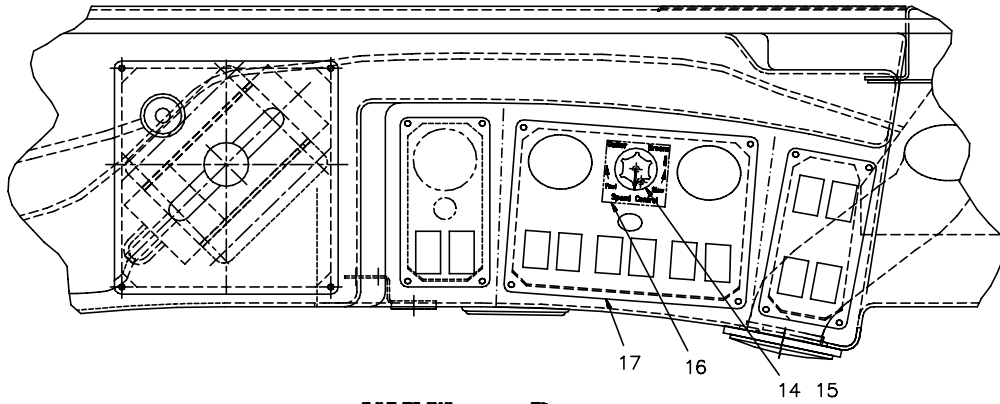


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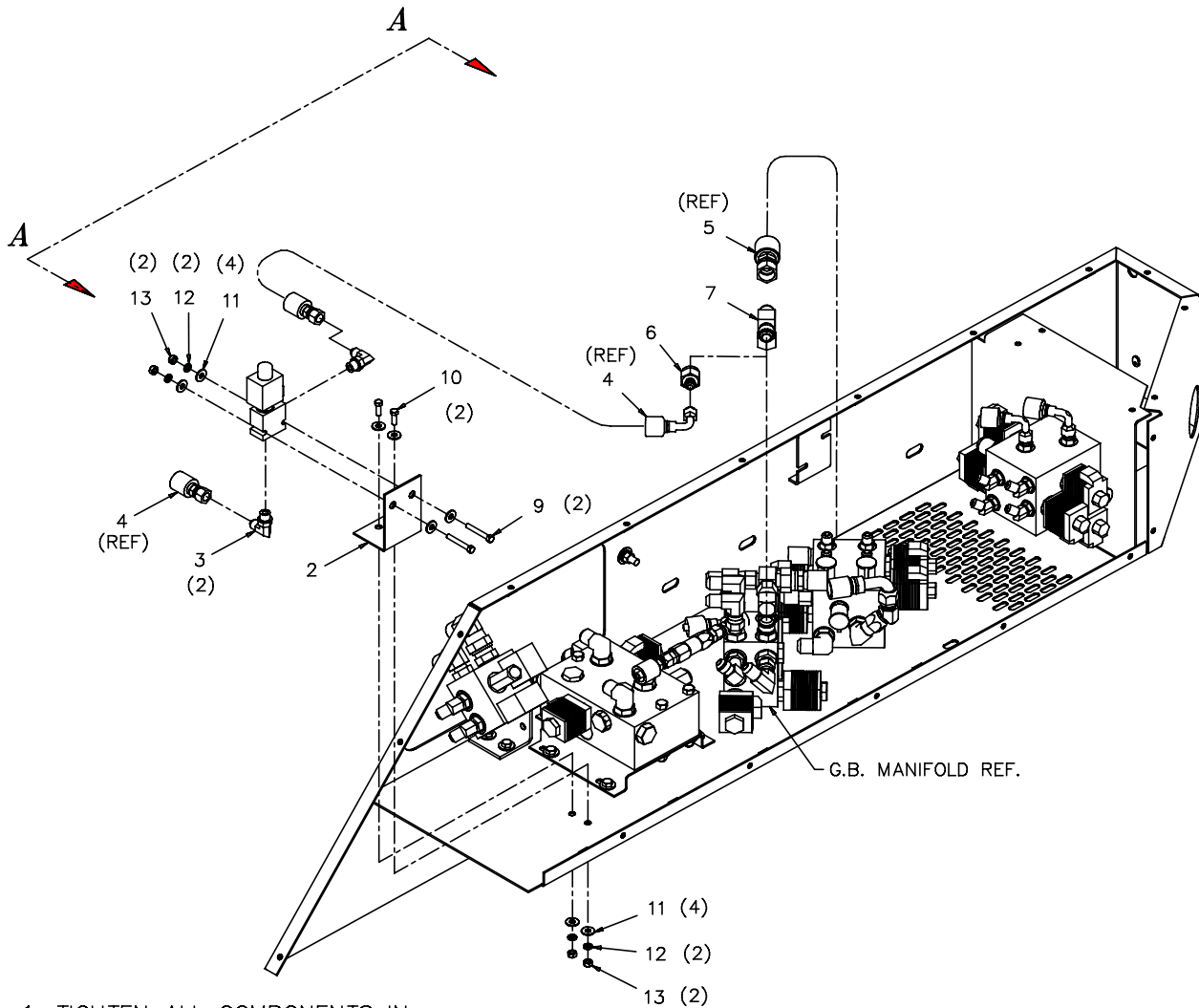


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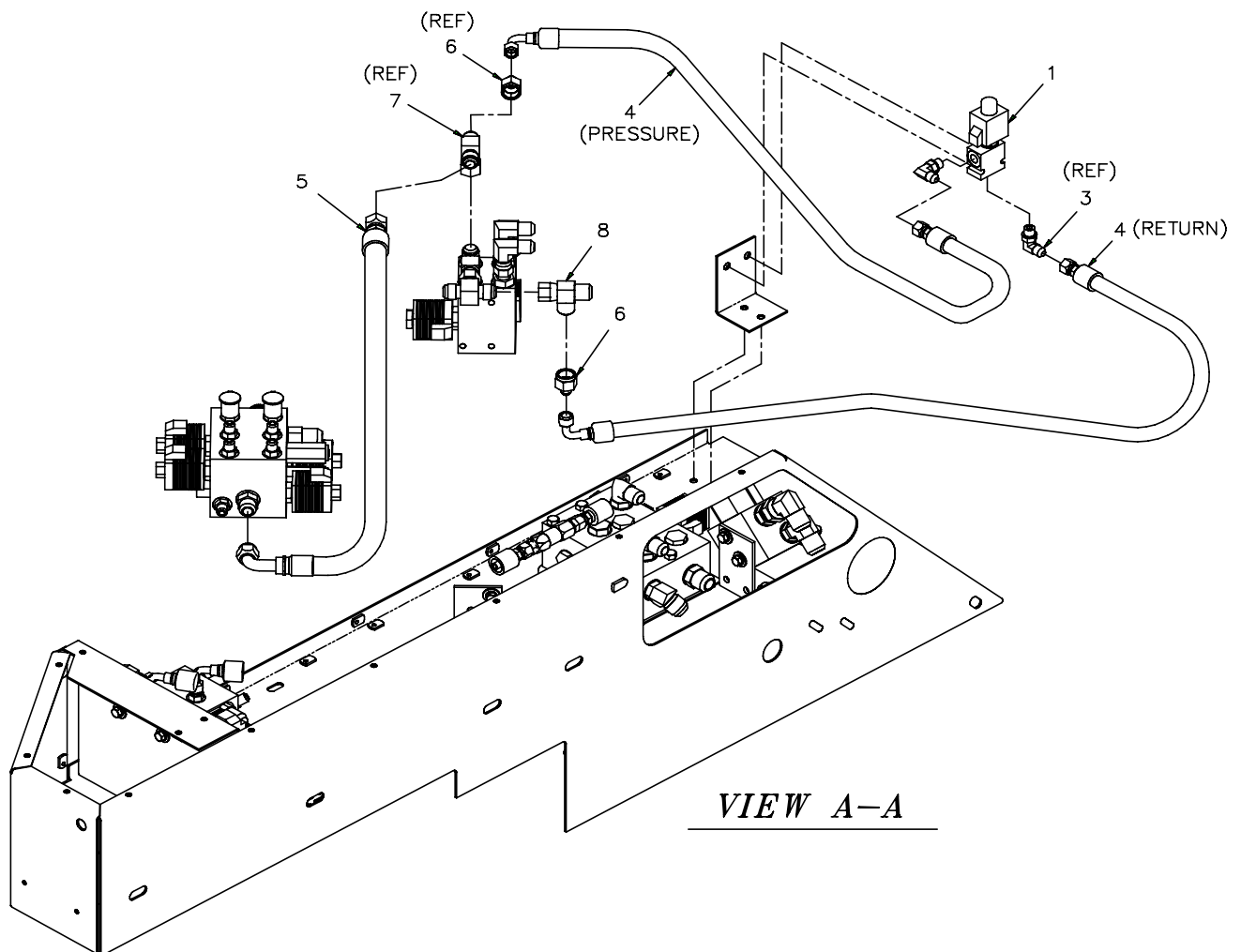
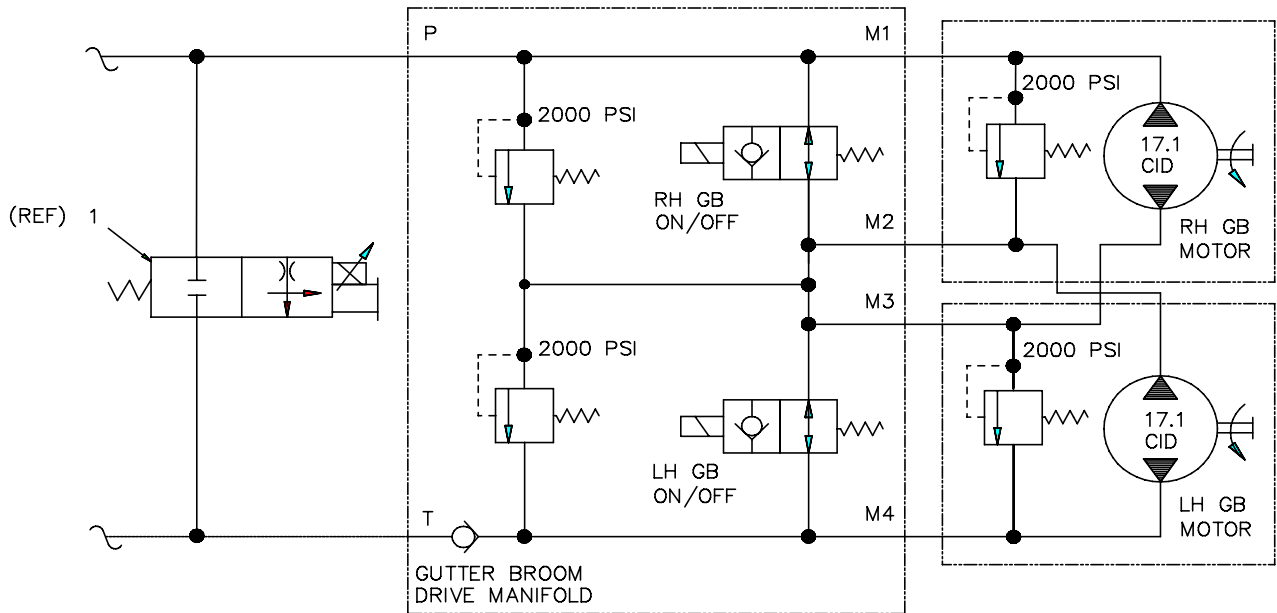
VIEW - B
(GUTTER BROOM SWITCH PANEL)



1. TIGHTEN ALL COMPONENTS IN THE ORIENTATION SHOWN.

NOTES, UNLESS OTHERWISE SPECIFIED.

Gutter Broom Speed Control Option





Gutter Broom Speed Control Option

CHAPTER 9

Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	323753	Gutter Broom Speed Control	E Ref	13	030703	Nut Hex 1/4-20 Unc	4
1	318230	Valve-proportional Flow Contrl	1	14	318235	Knob-rheostat	1
2	318759	Mtg Bracket	1	15	318254	Rheostat Rework-gb Flow Contrl	1
3	054289	Elbow, Mb-mj90-6	2	16	318284	Decal-gb Speed Control	1
4	323800	Hose Assy-3/8 Id X 20.5 Cut	2	17	323848	Gb/Elevator Switch Panel Lexan	1
5	319859	Hose Assy. 5/8 Id X 16.0 Lg.	0				
6	245438	Reducer Mj-fj-6-10	2				
7	205439	Tee-swivel Branch	1				
8	057651	Tee, Mj-fjx-mjt-10	1				
9	034226	Scr-hx Hd, 1/4-20x1-3/4 Gr8	2				
10	033145	Scr- Hx Hd Pltd 1/4-20x3/4 Gr8	2				
11	035605	Washer Flat Uss Plated 1/4	8				
12	030643	Washer- Loc Split Pltd 1/4 Gr8	4				



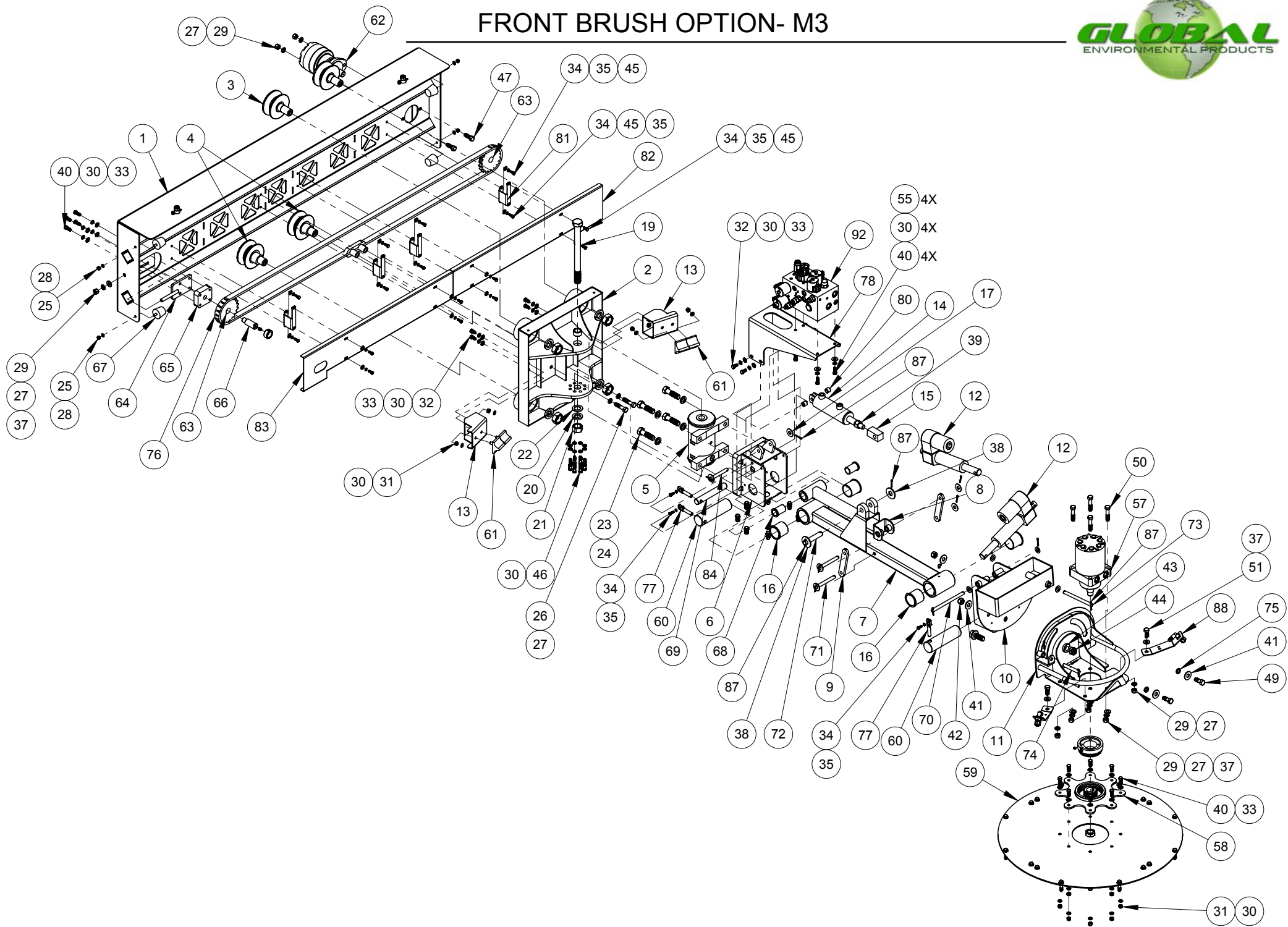


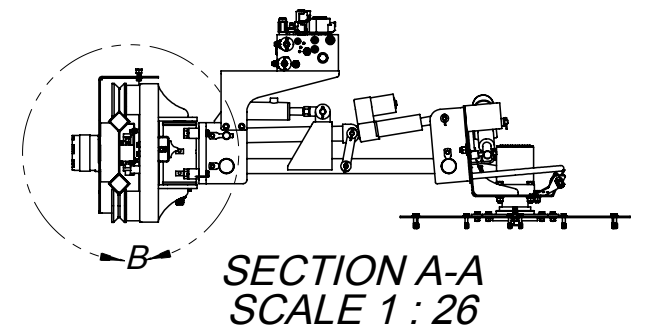
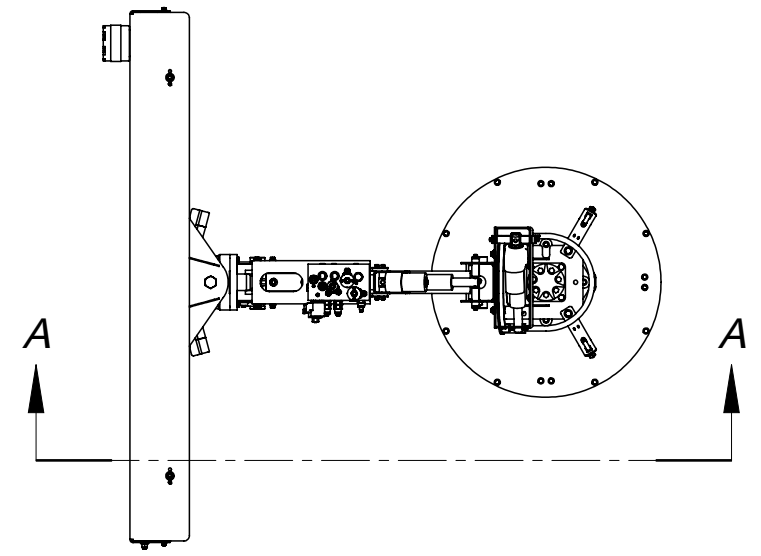
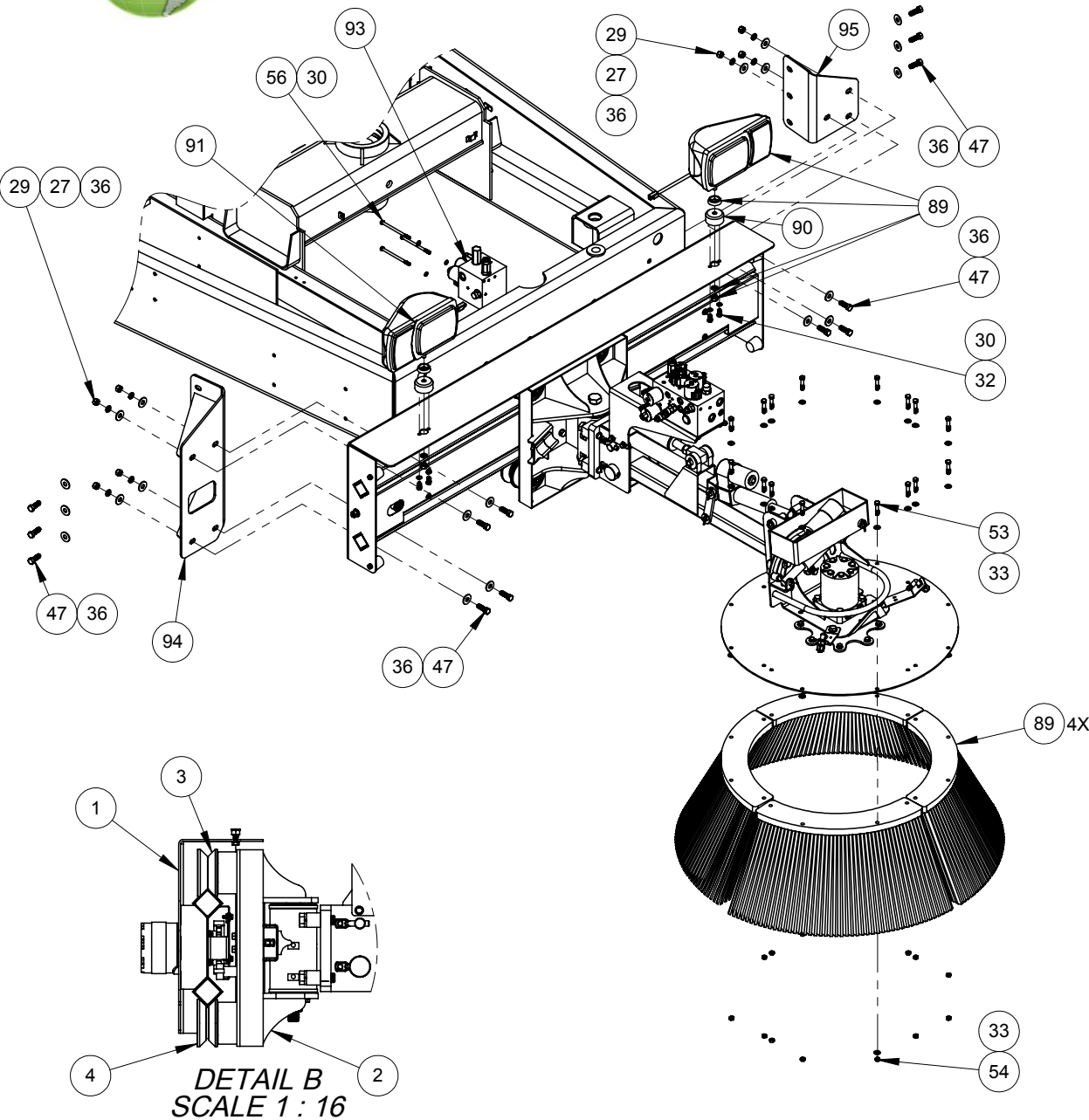
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FRONT BRUSH OPTION- M3





ITEM NO	PART #	DESCRIPTION	QTY.
REF	329496	FRONT BRUSH OPTION- M3	REV B
1	328886	RAIL SUPPORT WLDMT, FRONT BRUSH	1
2	328885	SLIDER MACHINING, FRONT BRUSH	1
3	325503	AXLE ASSY,2-SPEED,KNOTT BRAKE	2
4	325504	LOAD RUNNER 4.5 ECCENTRIC	2
5	324488	HYD ROTARY ACTUATOR, (SPCL)	1
6	328887	KING PIN, WELDMENT	1
7	328892	MAIN ARM WLDMT, FRONT BRUSH	1
8	325643	CONNECTOR ROD WLDMT	1
9	325573	PLATE, LOAD TRANSFER	2
10	325572	BRACKET WLDMT, BRUSH TILT	1
11	328896	BRUSH PIVOT, WLDMT	1
12	319044	LINEAR ACTUATOR	2
13	328918	ACTUATOR, WLDMT BUMPER PAD	2
14	308593	CYL. PUB LIFT	1
15	314362	KNUCLE	1
16	325588	BRONZE BUSHING, FLANGED, 2 IN	4
17	030595	WASHER FLAT USS PLATED 1/2" ID	2
18	325576	BUSHING, ACTUATOR TOP	1
19	325661	SCR, HX HD 1-8 X 12 GR8	1
20	033390	WASHER- LOC SPLIT 1" MEDIUM	1
21	18005-11	HEX NUT-FINISHED, 1"-8	1
22	032597	WASHER 1" FLAT	1
23	328917	SCR. HX HD, 3/4-16UNF X 2-3/4" LG. GR#8	4
24	031505	WASHER,SPRING LOCK,Ø 3/4"	4
25	030617	NUT, HEX, 5/16-18-UNC	4
26	030752	BOLT,HEX,HEAD,1/2-13-UNC x 2 1/4"LG	2
27	030592	WASHER,SPRING LOCK,Ø 1/2"	18
28	030373	WASHER,SPRING LOCK,Ø 5/16"	6
29	030596	NUT, HEX, 1/2-13-UNC	16
30	030605	WASHER,SPRING LOCK,Ø 3/8"	48
31	030599	NUT, HEX, 3/8-16-UNC	19
32	033147	BOLT,HEX,HEAD,3/8-16-UNC x 3/4"LG	12
33	038266	WASHER,FLAT,Ø 3/8",SAE NARROW	59
34	033145	BOLT,HEX,HEAD,Ø 1/4-20-UNC x 3/4"LG	19
35	030643	WASHER,SPRING LOCK,Ø 1/4"	19
36	030595	WASHER,FLAT,Ø 1/2",USS,(1 3/8" O.D.)	24
37	023687	WASHER,FLAT,SAE,Ø 1/2"	11
38	030517	WASHER,FLAT,Ø 3/4",USS WIDE	2
39	030426	NUT, HEX, 3/4-10-UNC	1
40	034423	BOLT,HEX,HEAD,3/8-16-UNC x 1" LG. GR8	23
41	331991	WASHER-FLAT PLTD, 9/16" ID	4
42	331994	NUT HEX NYLON LOCK PLTD, 9/16"-12UNC	2
43	323557	WASHER,FLAT,Ø 3/4",SAE NARROW	1
44	331995	NUT HEX SLOTTED LOCK PLTD, 3/4"-10UNC	1
45	035605	WASHER,FLAT,Ø 1/4",USS,(3/4" O.D.)	16
46	033139	BOLT,HEX,HEAD,3/8-16-UNC x 1 1/4"LG	8
47	033151	BOLT,HEX,HEAD,1/2-13-UNC x 1 1/2"LG	15
48	331989	BOLT HEAD FLANGE SCREW, (REWORK)	1
49	317001	BOLT,HEX,HEAD,9/16-12-UNC-2B x 1 1/2"LG GR8	2
50	305400	BOLT,HEX,HEAD,1/2-13-UNC x2 1/2"LG	4
51	033150	BOLT,HEX,HEAD,1/2-13-UNC x 1 1/4"LG	2
52	5561	NUT, HEX, 1-12-UNF	1
53	033148	BOLT,HEX,HEAD,3/8-16-UNC x 1 3/4"LG	16
54	046828	NUT,HEX, 3/8-16-UNC, CONELOCK, PLATED	16
55	030557	WASHER,FLAT, USS,Ø 3/8"	4
56	90178	BOLT,HEX,HEAD,5/16-18-UNC x 5"LG	3
57	323532	MOTOR, G .B., WHEEL	1
58	328908	DRIVE WLDMT, GUTTER BROOM	1
59	328910	PLATE, BRUSH MOUNT, GB	1
60	325584	KING PIN, MAIN ARM PIVOT	2
61	325654	BUMPER, ROTARY ACTUATOR	4

ITEM NO	PART #	DESCRIPTION	QTY.
62	325805	HYD MOTOR, FRONT BRUSH SLIDE	1
63	325499	SPROCKET 60BS-19-1	2
64	325644	IDLER GEAR ADJ. WLDMT	1
65	325536	IDLER GEAR PIN BASE	1
66	325535	IDLER GEAR SHAFT	1
67	325548	PLATE, ACTUATOR BUMPER SHIM	4
68	325589	BRONZE BUSHING, FLANGED 1 IN	2
69	325585	PIN, CONNECTOR ROD PIVOT	1
70	325594	PIN, LINEAR ACTUATOR	1
71	325597	PIN, LOAD TRANSFER	2
72	328834	PIN, LIFT CYLINDER	1
73	325617	PIN, ACTUATOR ANCHOR	1
74	325618	PIN, BROOM ACTUATOR PIVOT	1
75	325621	TUBE, ADJUST	2
76	325502	ROLLER CHAIN, #60 RIVETED	1
77	331963	PIN, TAB RETAINING	3
78	329149	BRKT, FUNCTIONS MANIFOLD	1
79	329174	CHAIN WLDMT CONNECTING LINK	1
80	329219	BUSHING, SPACER, 1/2" ID	2
81	329468	CHAIN GUARD SUPPORT, WLDMT	4
82	329470	CHANNEL, CHAIN GUARD, (RH) SIDE	1
83	329471	CHANNEL, CHAIN GUARD, (LH)	1
84	331964	PIN, LIFT CYLINDER	1
85	035136	GREASE ZERK STRAIGHT 1/4 -28 N.F. TAPER	2
86	035137	GREASE ZERK 90° ELBOW Ø 1/4" -28 UNF	2
87	055012	PIN-COTTER, 5/32" X 1" LG.	15
88	332009	GUTTER FRONT BRUSH, SPRAY ASS'Y	2
89	320914	GB SEGMENT	4
90	325684	HEADLIGHT, SPACER	2
91	325652	HEADLIGHT LAMP, (RH) SIDE	1
92	325562	MANIFOLD, FRONT BRUSH ACTUATOR	1
93	325538	MANIFOLD, FRONT BRUSH MOTOR	1
94	329295	BRKT WLDMT, MAIN PLATE SUPPORT, (RH)	1
95	329299	BRKT WLDMT, MAIN PLATE SUPPORT, (LH)	1

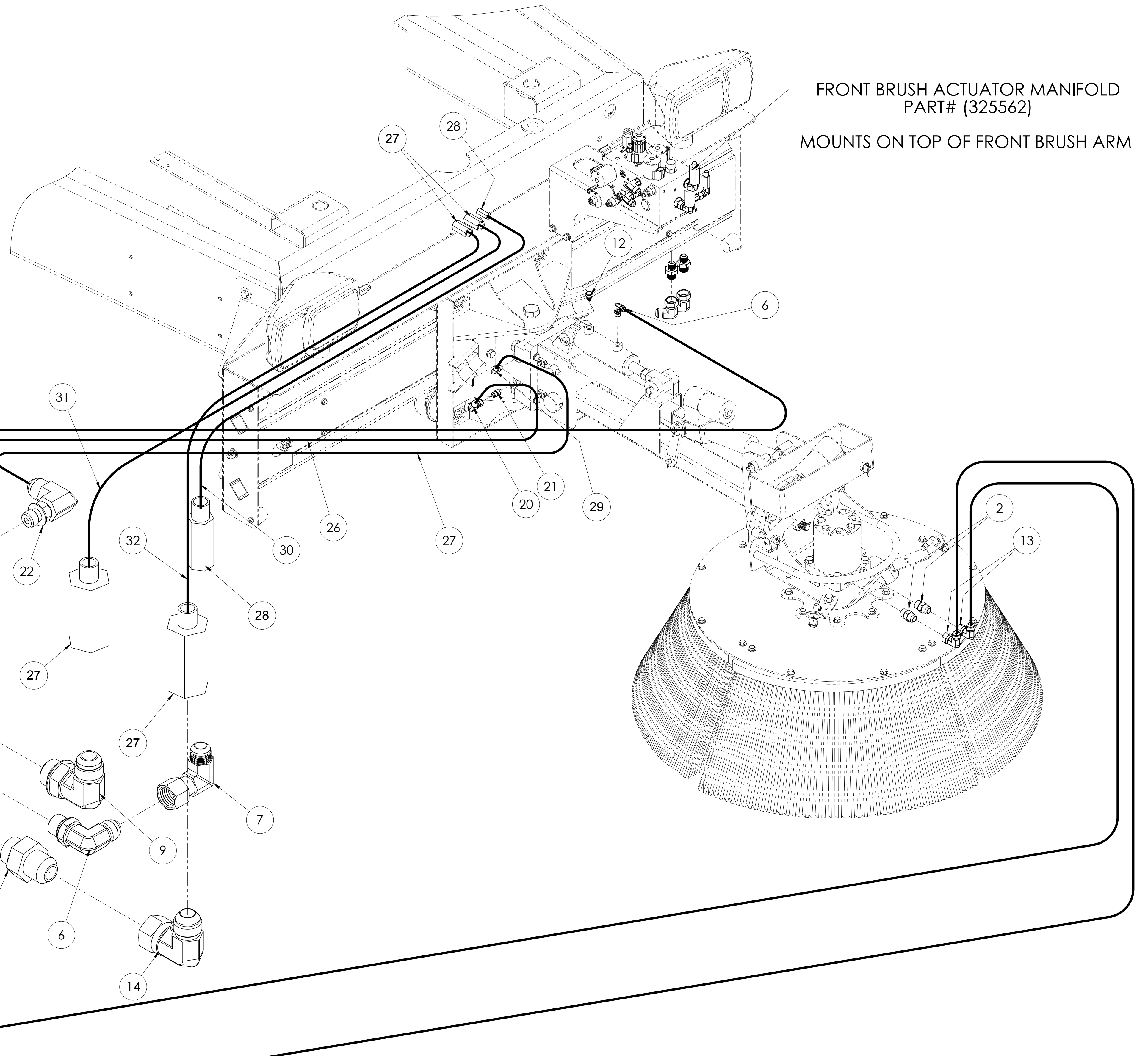


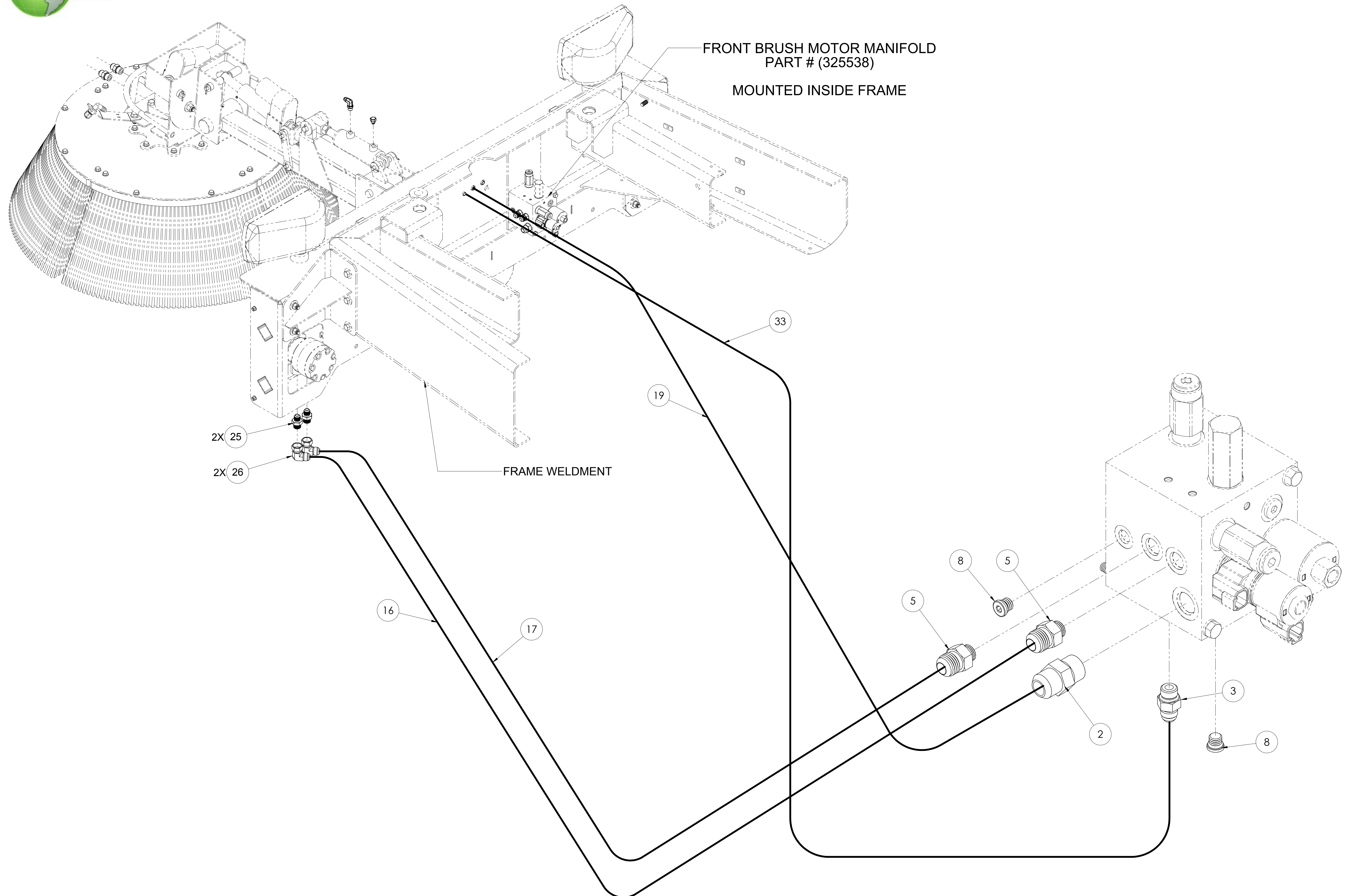
CHAPTER 9

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FRONT BRUSH HYDRAULICS

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	329496	FRONT BRUSH INSTALLATION, OPTION	1
2	204272	CONN, MB-MJ-10	3
3	204003	CONN, MB-MJ-6	2
4	205994	FITTING, HYD, 90°, MJIC-08 X MJIC-06	1
5	055946	FITTING, HYD, STR, MORB-06 X MJIC-08	3
6	054289	ELBOW, MB-MJ90-6	2
7	252013	FITTING, HYD, 90°, MJIC-06 X FJIC-06	1
8	14000	FITTING, HYD, PLUG, HOLLOW HEX, MORB-04	4
9	620513	ELBOW, MB-MJ90-8	1
10	204283	PLUG-6	1
11	205783	CONN MB-MJ-8	1
12	331084	BRASS BREATHER VENT	1
13	251975	ELBOW MJ-FJX90-10	2
14	039270	ELBOW-90 DEG, MJ-FJX90-8	2
15	332295	HOSE ASSY, 3/8" ID X 14.125" LG	1
16	332296	HOSE ASSY, 1/2" ID X 42" LG	1
17	332297	HOSE ASSY, 1/2" ID X 39.25" LG	1
18	332298	HOSE ASSY, 1/2" ID X 57.25" LG	2
19	332299	HOSE ASSY, 5/8" ID X 16.25" LG	1
20	313886	ELBOW, MP-FJX90-6	1
21	325737	FITTING, HYD, STR, MORB-04 X MJIC-06	1
22	316234	FITTING, HYD, 90°, MJIC-06 X MORB-04	2
23	332302	HOSE ASSY, 1/4" ID X 28" LG	1
24	332303	HOSE ASSY, 1/4" ID X 28" LG	1
25	303165	HYD FITTING STRAIGHT (ORB-12/JIC-10)	2
26	055839	FITTING, HYD, 90°, MJIC-12 X FJIC-12	2
27	332398	LIVE SWIVEL 10-10	4
28	332400	LIVE SWIVEL 6-6	2
29	332401	90° 4-4 MALE ELBOW	1
30	332402	HOSE ASSY, 1/4" ID X 65.75" LG	1
31	332403	HOSE ASSY, 5/8" ID X 63.75" LG	1
32	332404	HOSE ASSY, 5/8" ID X 66.75" LG	1
33	332405	HOSE ASSY, 1/4" ID X 15.50" LG	1

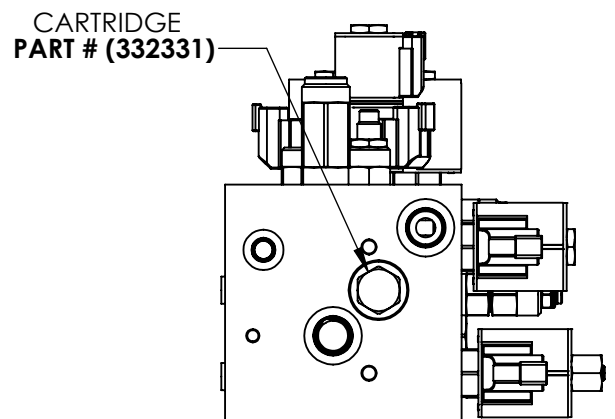
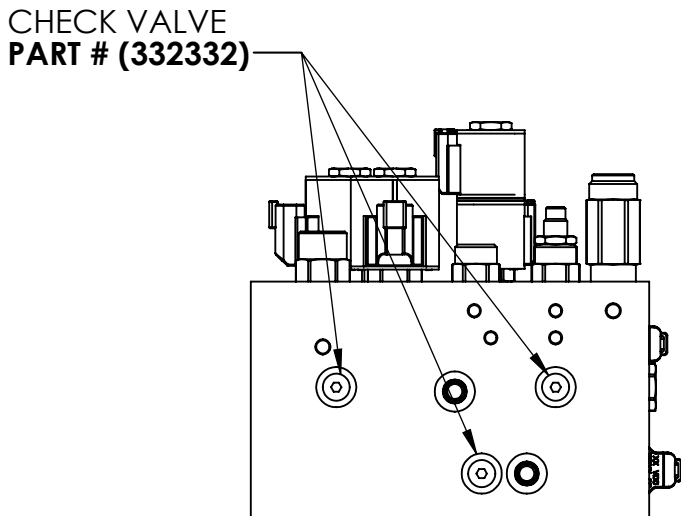
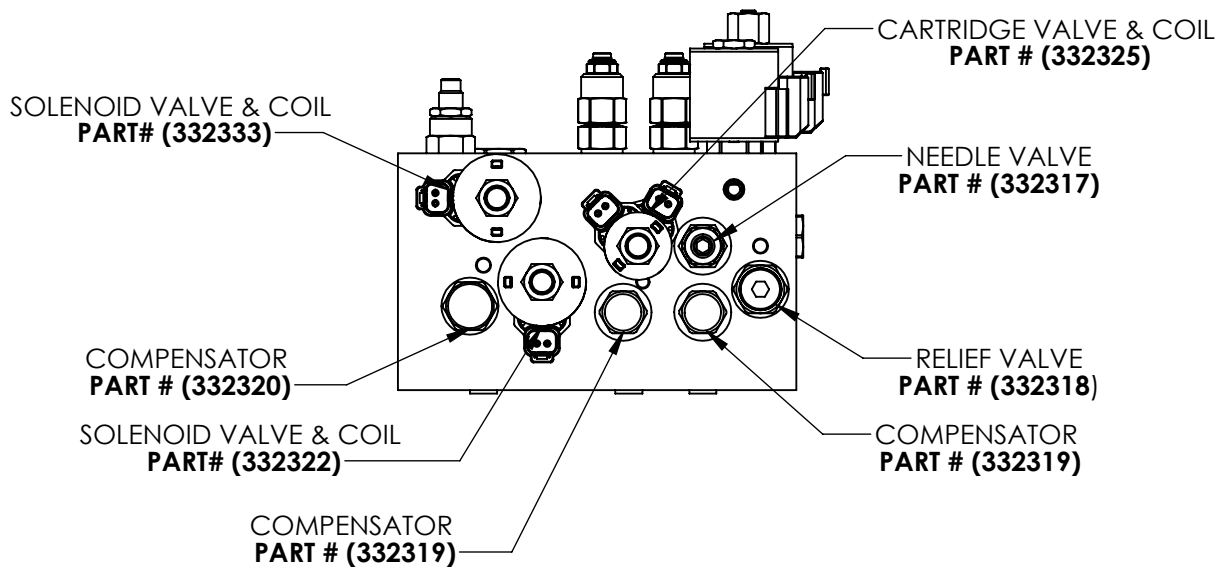
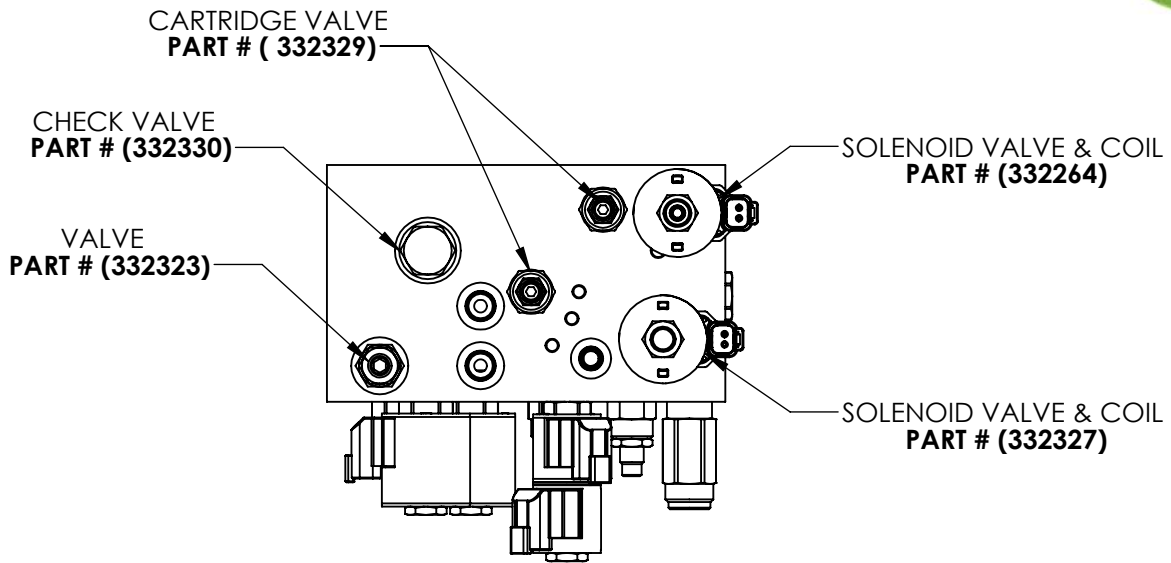


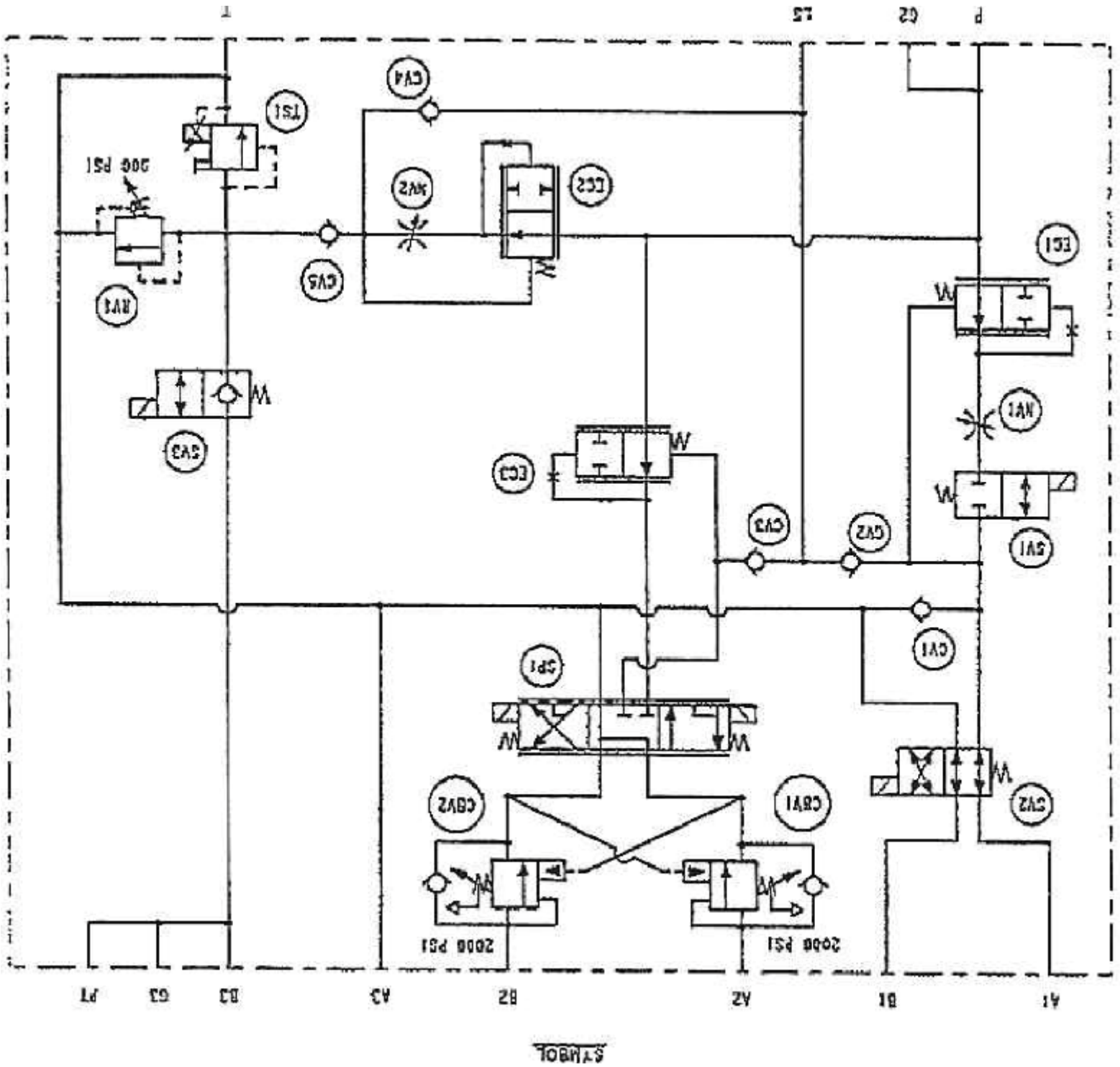




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MANIFOLD, FRONT BRUSH ACTUATOR

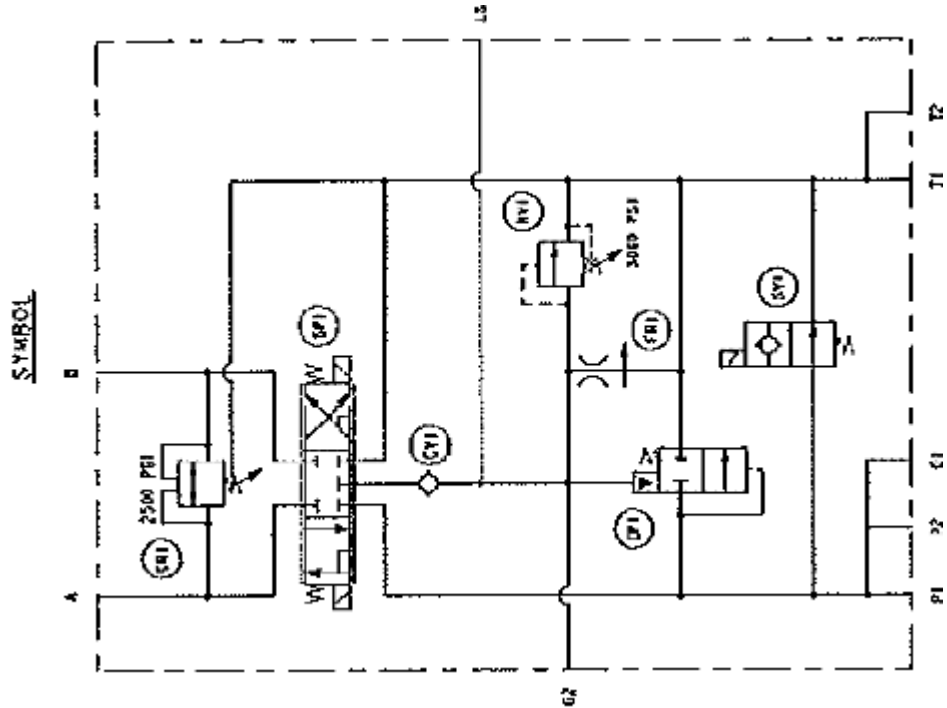






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MANIFOLD-FRONT BRUSH MOTOR PART #325538



RELIEF VALVE
PART #(332335)

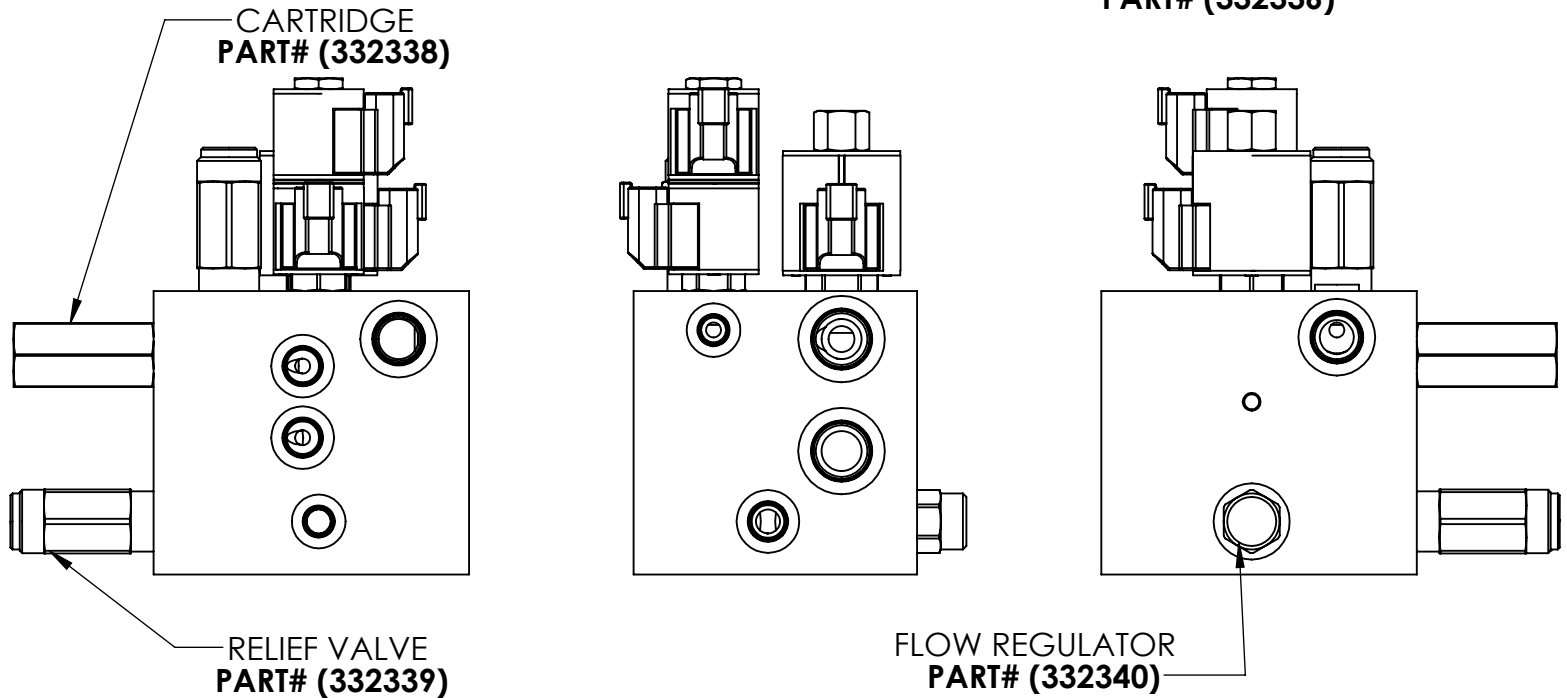
SOLENOID VALVE & COIL
PART# 332406

SOLENOID VALVE & COIL
PART# (332336)

CARTRIDGE
PART# (332338)

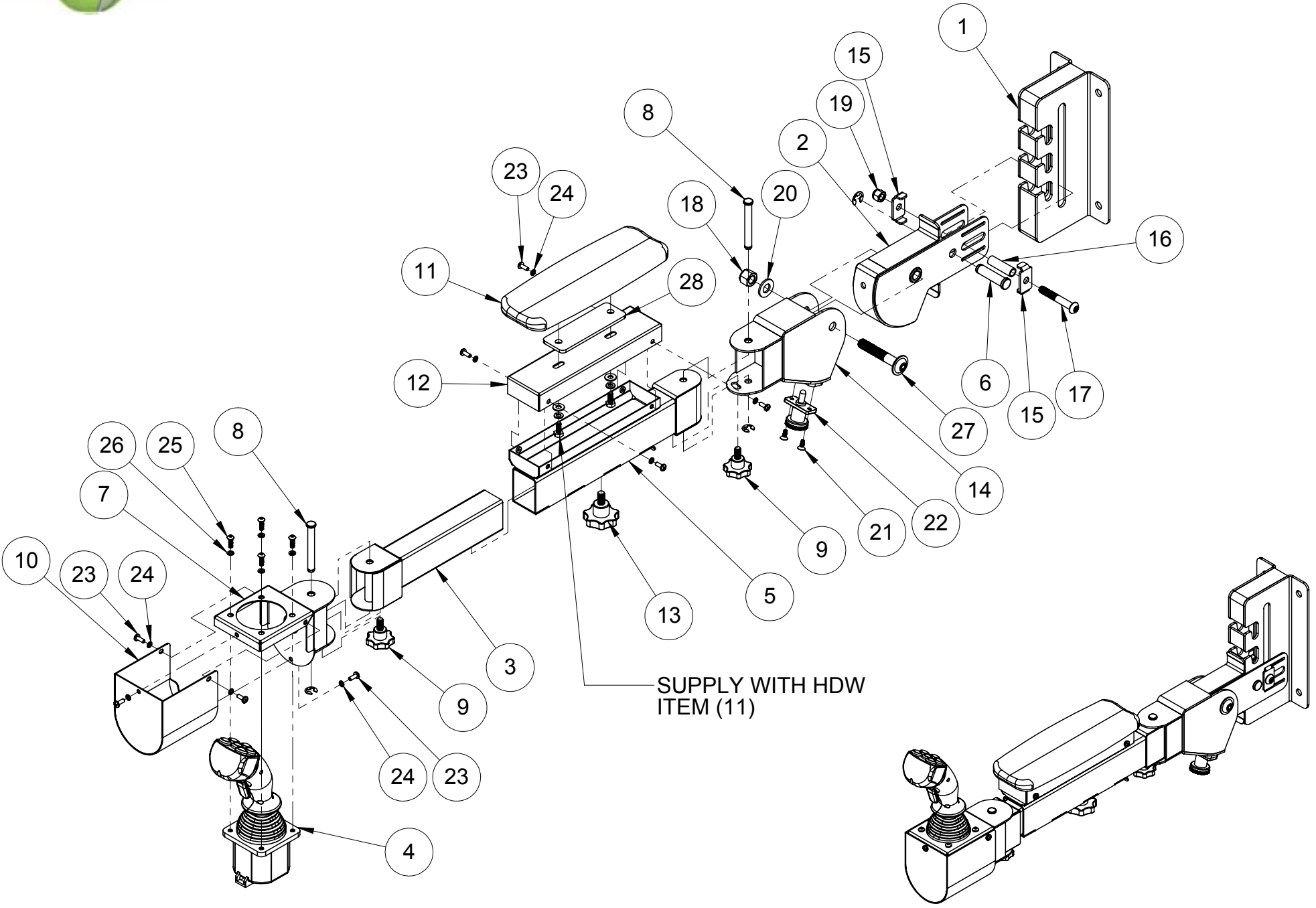
RELIEF VALVE
PART# (332339)

FLOW REGULATOR
PART# (332340)



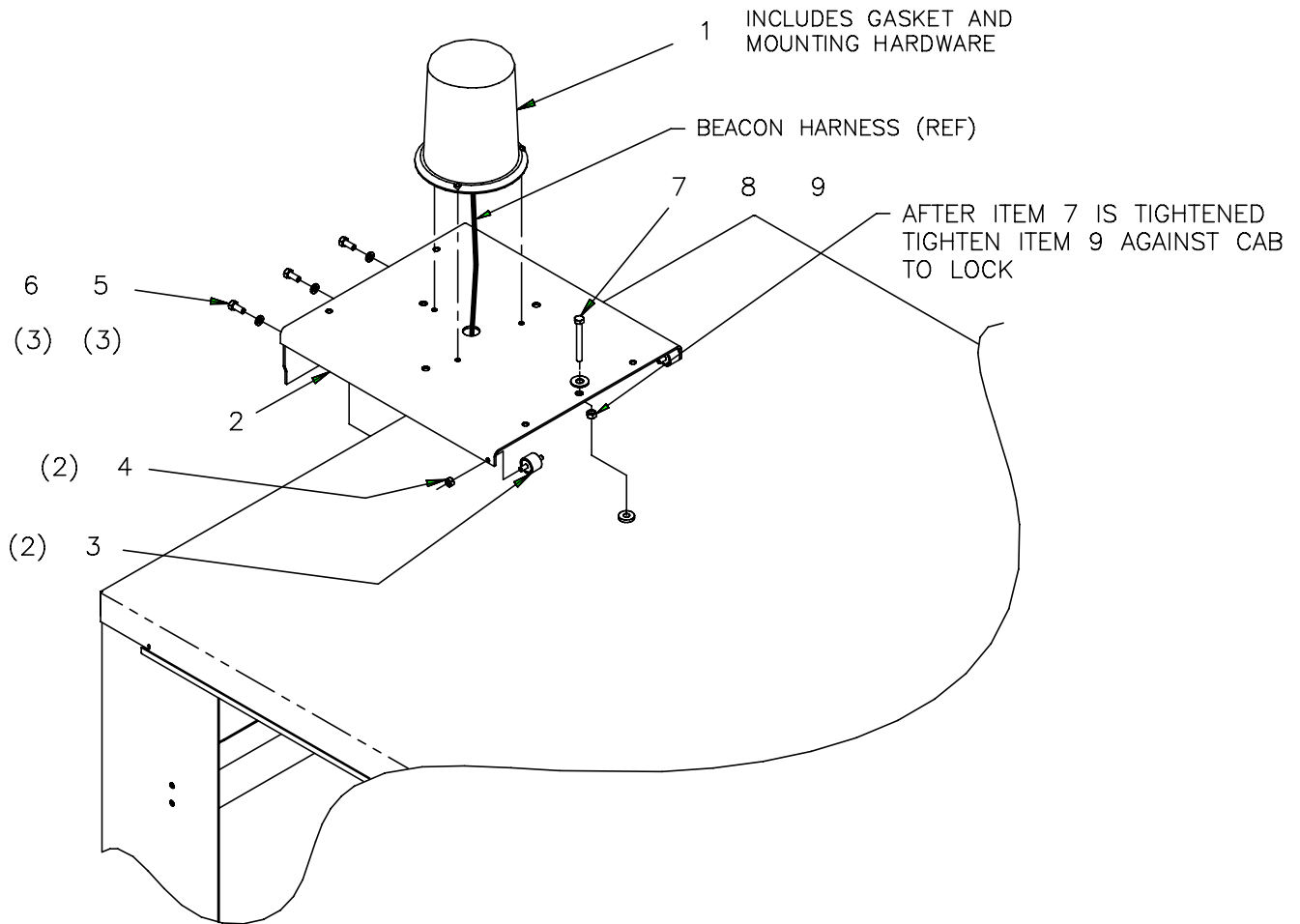


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ITEM NO.	PART NUMBER	DESCRIPTION	QTY
REF	331973	ARM-JOYSTICK, INSTL.	REV 1
1	328935	WLDMT, ARMREST MOUNT	1
2	328932	PIVOT WLDMT, HEIGHT ADJUST	1
3	328925	SUPPORT WLDMT, JOYSTICK	1
4	75364	JOYSTICK, CONTROL	1
5	328929	ARM WLDMT, JOYSTICK, ADJUST	1
6	331970	GROOVE CLEVIS PIN, 1/2" X 2" LG.	1
7	329099	BOX WLDMT, JOYSTICK FRONT	1
8	331969	GROOVE CLEVIS, PIN 3/8" DIA X 2-27/32" LG.	2
9	331968	KNOB-HANDLE, WHEEL 5/16"-18	2
10	329103	COVER WLDMT, JOYSTICK BOX	1
11	325815	ARMREST-PAD	1
12	328944	CHANNEL, ARMREST PAD	1
13	331967	KNOB-HANDLE, WHEEL	1
14	329156	ARM WLDMT, JOYSTICK	1
15	329151	CHANNEL-LOCK	2
16	329157	TUBE, PIVOT	1
17	331972	SOC. HD BUTTON SCR. 3/8"-16UNC X 2-1/2" LG. SST	1
18	034599	NUT,HEX,NYLON LOCK,1/2-13-UNC	1
19	023885	NUT,HEX,NYLON LOCK,3/8-16-UNC	1
20	023687	WASHER,FLAT,SAE,Ø 1/2"	1
21	331976	SOC. CAP SCR-FLAT, #10-24UNC X 1/2" LG.	2
22	329076	RETRACTABLE SPRING-PLUNGER	1
23	099335	SCREW,PAN HEAD,CROSS DRIVE,#10-24-UNC X 3/4" LG.	8
24	035604	WASHER,SPRING LOCK,Ø #10	8
25	91051	SCREW,BUTTON,Sock HEAD,M5x0.8x16mm LG.	4
26	460-7	WASHER,SPRING LOCK,Ø M5	4
27	331977	SOC. CAP HD FLANGE SCR., 1/2"-13UNC X 3.0" LG.	1
28	329120	PLATE-ARMREST	1

CHAPTER 9



NOTES:

1. ITEM 10 (SWITCH, NOT SHOWN) INSTALLS IN CAB ON PANEL 324567

Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	325229	Strobe Light Installation	A Ref	11	608989 353774	Gromet, AN931-B4-7 Light Guard Weldment	1 1
1	240512	Light Strobe-amber	1				
2	353773	Beacon Bracket Weldment	1				
3	317804	Mount,Sandwich-rubber	2				
4	203375	Nut-lock,Nyl Insert,1/4-20	2				
5	030483	Scr- Hxhd Pltd 5/16-18x3/4 Gr8	3				
6	030373	Washer- Loc Split Plt 5/16 Gr8	3				
7	350708	Scr-hx Hd Cap,3/8-16x1-3/4 Gr8	1				
8	030557	Washer Flat Uss Plated 3/8	1				
9	030599	Nut- Plated, 3/8-16 Gr8	1				
10	317372	Switch Rocker Rotary Beacon	1				





NOTES
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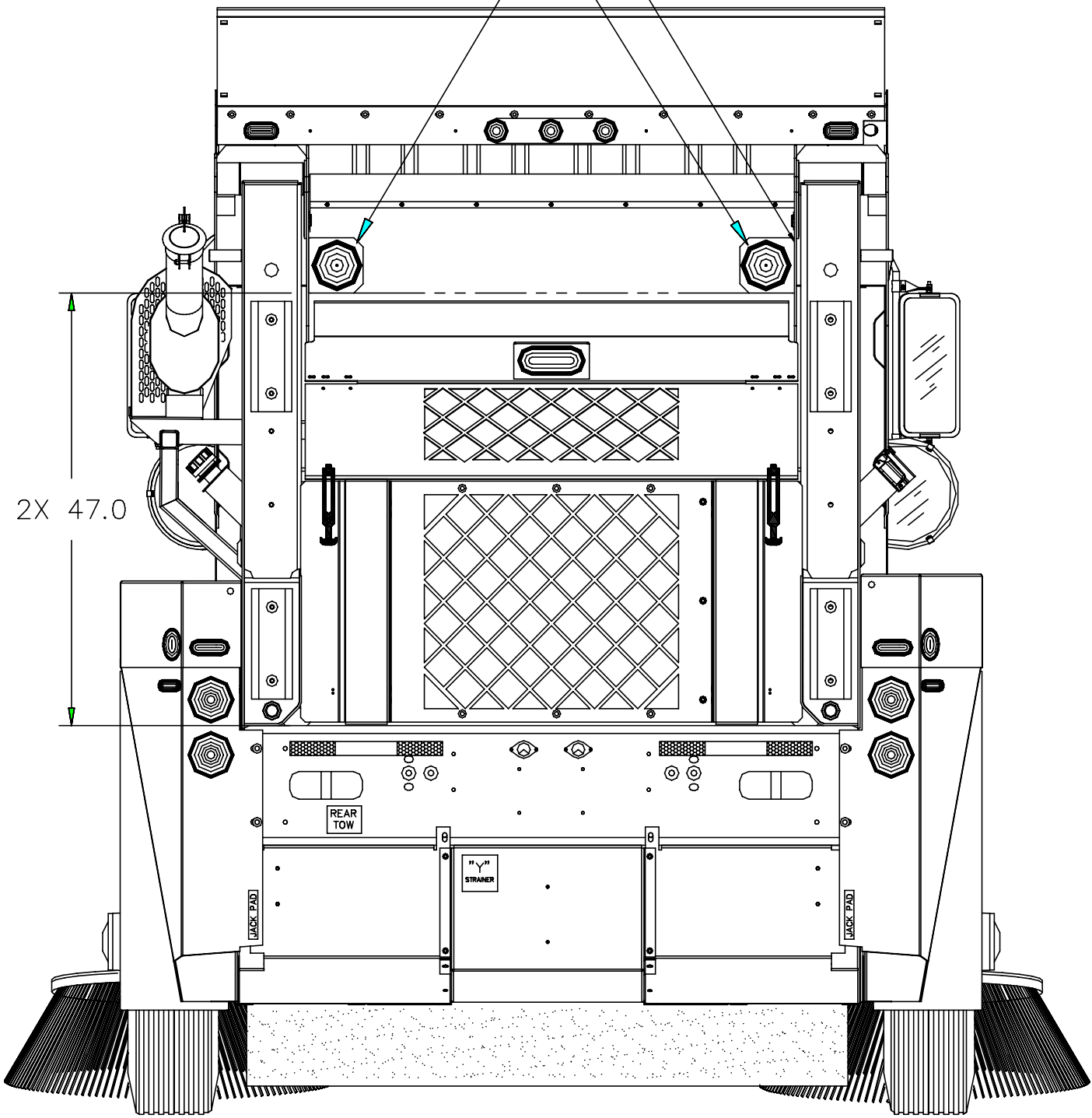
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Strobe Light Installation



- (6) (6) (6) (6) (2) (2) (2)
- 7 6 5 4 3 2 1

POSITION ITEM 1 FLUSH WITH THE REAR OF THE TOWERS AND AT THE HEIGHT SHOWN. WELD TO TOWERS PRIOR TO PAINTING.






Strobe Light Installation

CHAPTER 9

Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	324805	Strobe Light Instl (Rear Mtd)	B Ref	-	324458	Stop/Tail/Clr/Marker Instl (LED) A	Ref
1	324809	Bracket, Mounting-fm Light	2	324351	Led Stop, Dir & Tail Light 4"		2
2	324810	Light, Warning(Led) Flange Mt	2	324352	Led Side Marker 2" Red		2
3	324811	Plug, Pigtail	2	324457	Led Clearance & Marker Red		5
4	900081	Scr-pan Hd,10-24x1	6				
5	036645	Washer Flat Sae Plated #10	6				
6	035604	Washer Lock Split #10 Plated	6				
7	023598	Nut- 10-24 Hex Pltd	6				

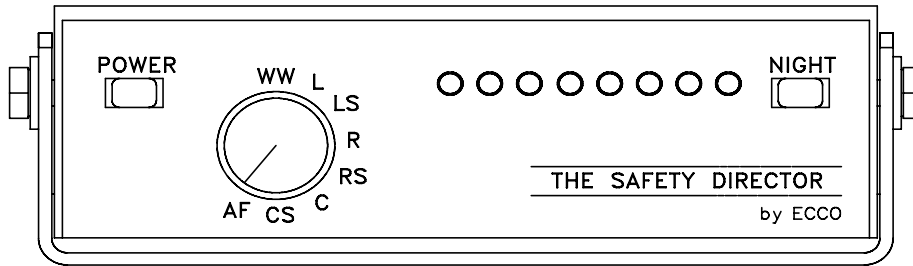




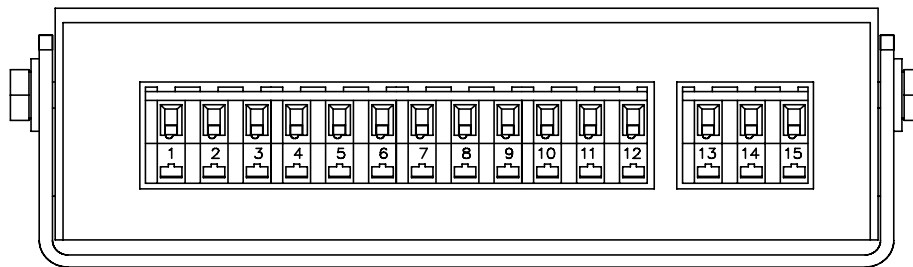
Arrow Stick Installation (Halogen)

CHAPTER 9

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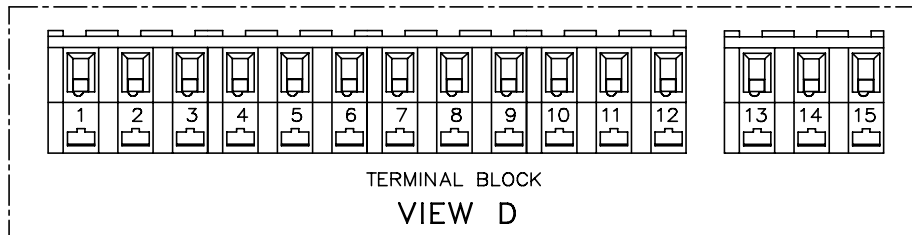


FRONT VIEW OF CONTROL BOX



REAR VIEW OF CONTROL BOX

SEE NOTE 8

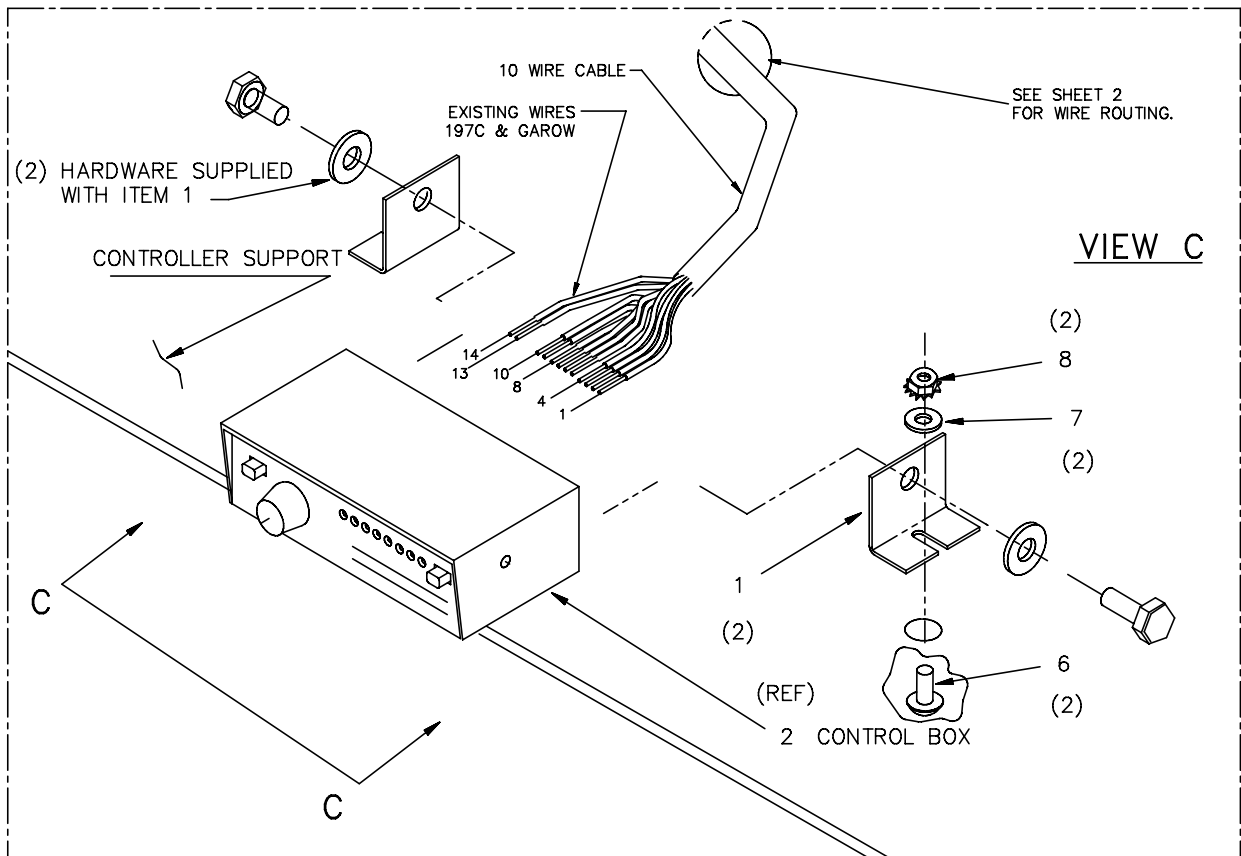
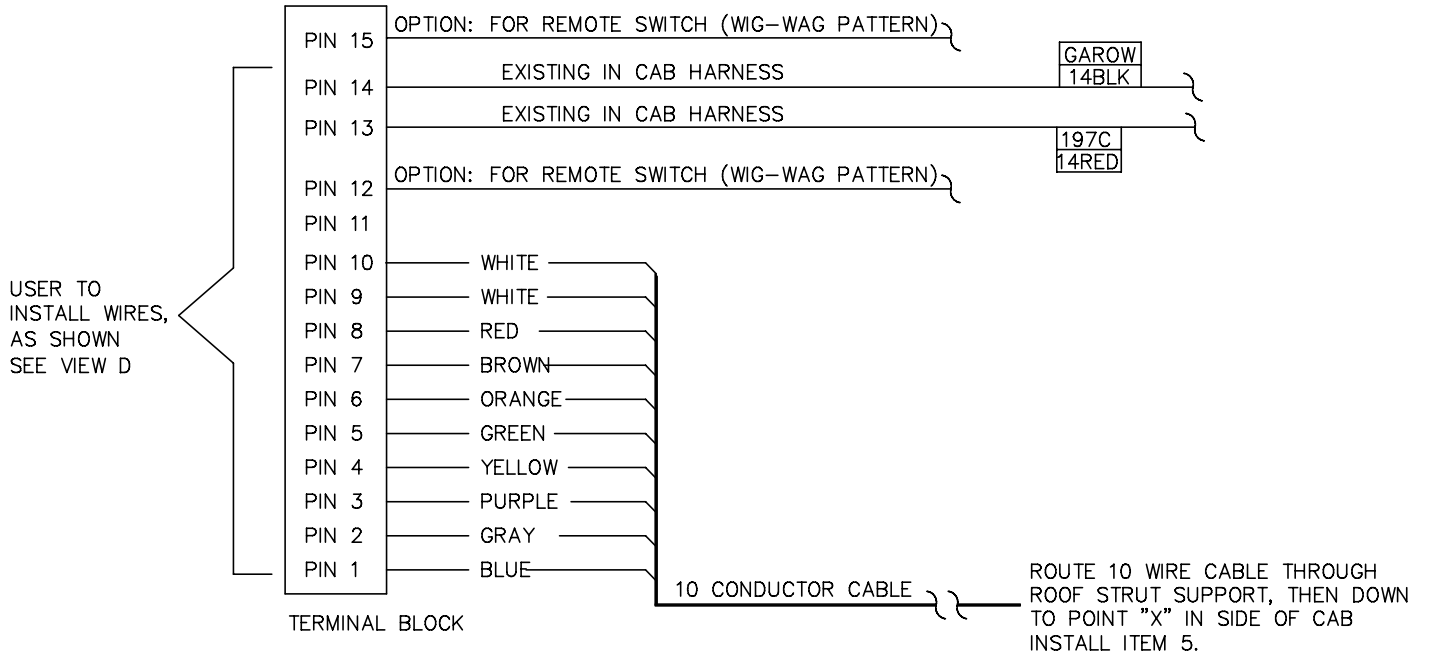


TERMINAL BLOCK
VIEW D

8. SUPPLIED MOUNTING BRACKET NOT USED.
7. LIGHTS ON CONTROL BOX WILL SHOW SAME PATTERN AS THE ARROW STICK.
6. INSTALL ITEM 5 TO 10 TEN WIRES IN CABLE. SEE SHEET 2, VIEW B. CONNECT BOTH MATING HALFS OF THE 9 PIN DEUTSCH PLUG
5. INSTALL ITEM 1 TO CONTROL BOX ITEM 2 AS SHOWN IN VIEW C ON PAGE 1 OF 3. THEN INSTALL ITEM 1 AND 2 TO CAB AS SHOWN IN VIEW C-C ON PAGE 2 OF 3.
4. INSERT LINE 197C IN CAVITY 13, AND GAROW IN CAVITY 14.
3. ROUTE THE REMAINING HALF OF THE 10 WIRE CABLE THROUGH THE ROOF STRUT SUPPORT OF CAB. CONNECT 10 WIRE CABLE TO PINS 1 THRU 10 SHOWN ABOVE. PINS 11,12 AND 15 ARE NOT USED!
2. ROUTE CABLE FROM ARROW STICK DOWN TO THE LEFT SIDE CHASSIS FRAME RAIL TO POINT "X" IN LH SIDE OF CAB.
1. INSTALL ITEM 2, 3 & 4 (ARROW STICK) ON REAR OF HOPPER PIVOT TUBE. SEE SHEET 3.

NOTES; UNLESS OTHERWISE SPECIFIED:

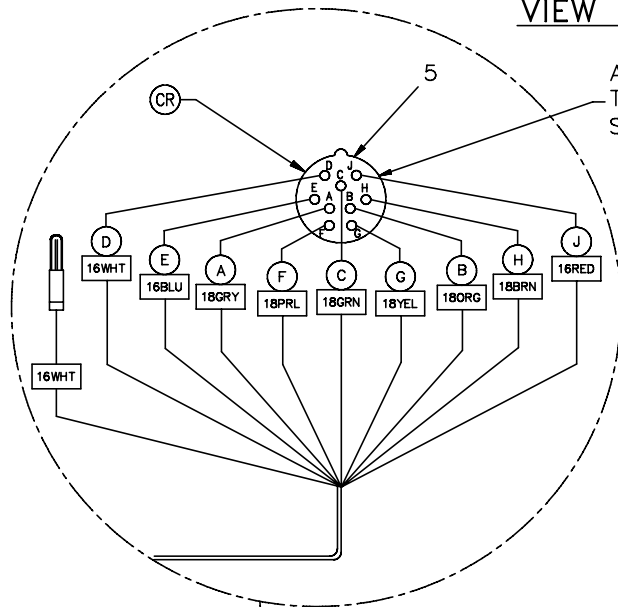
CHAPTER 9



Arrow Stick Installation (Halogen)

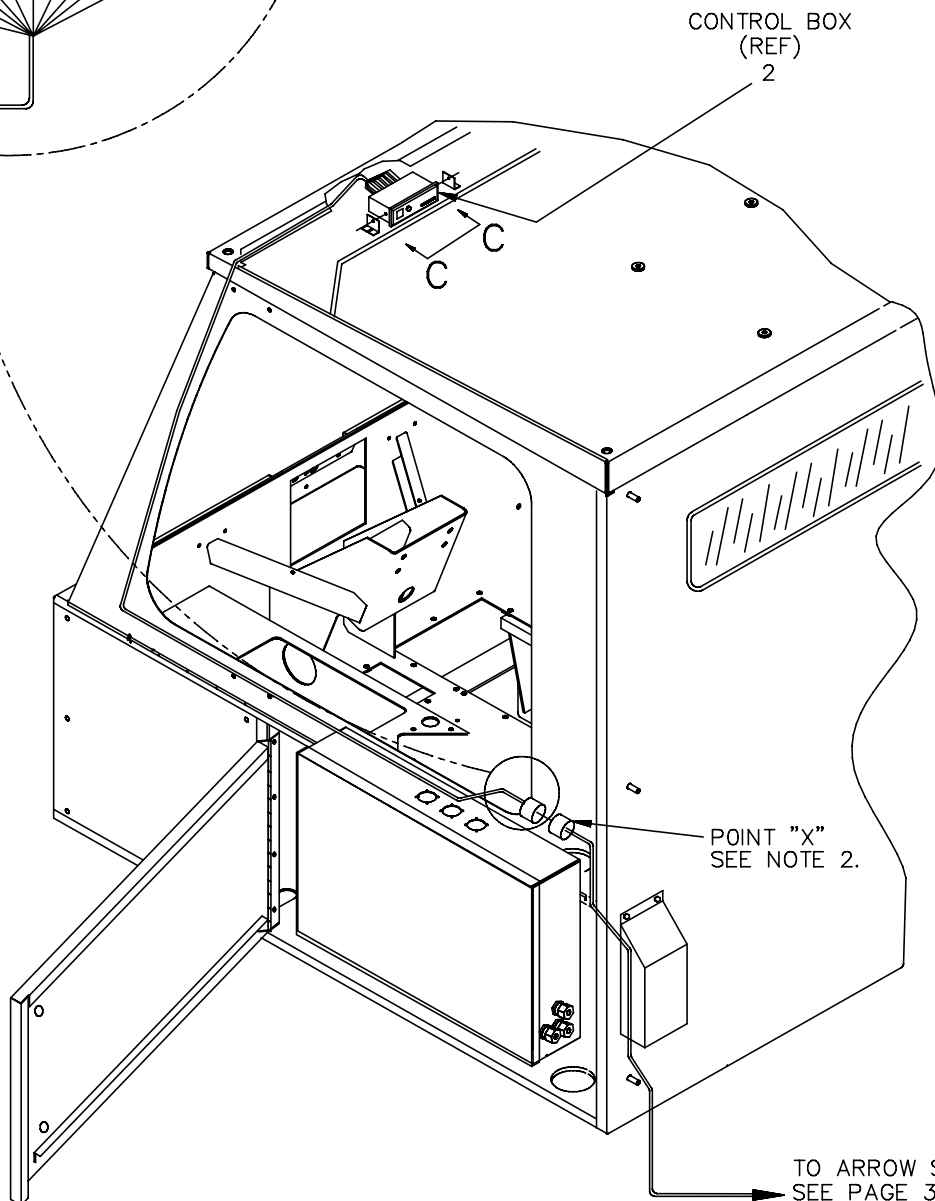


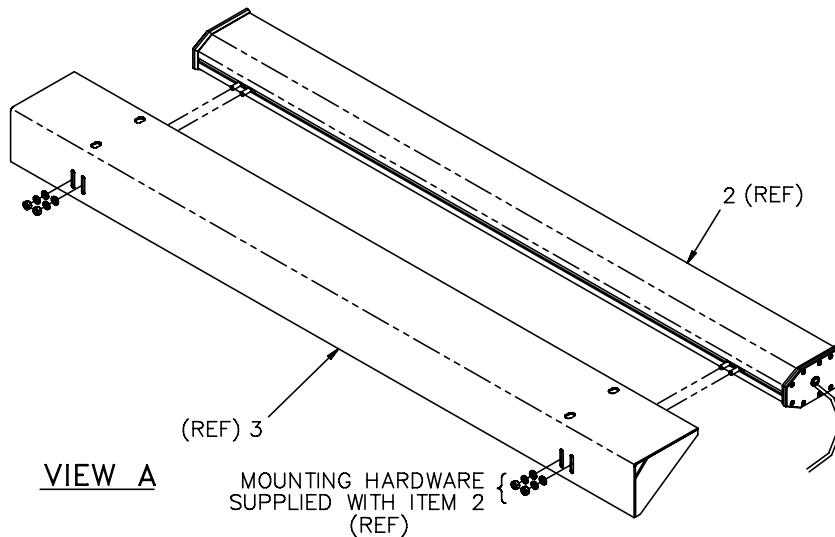
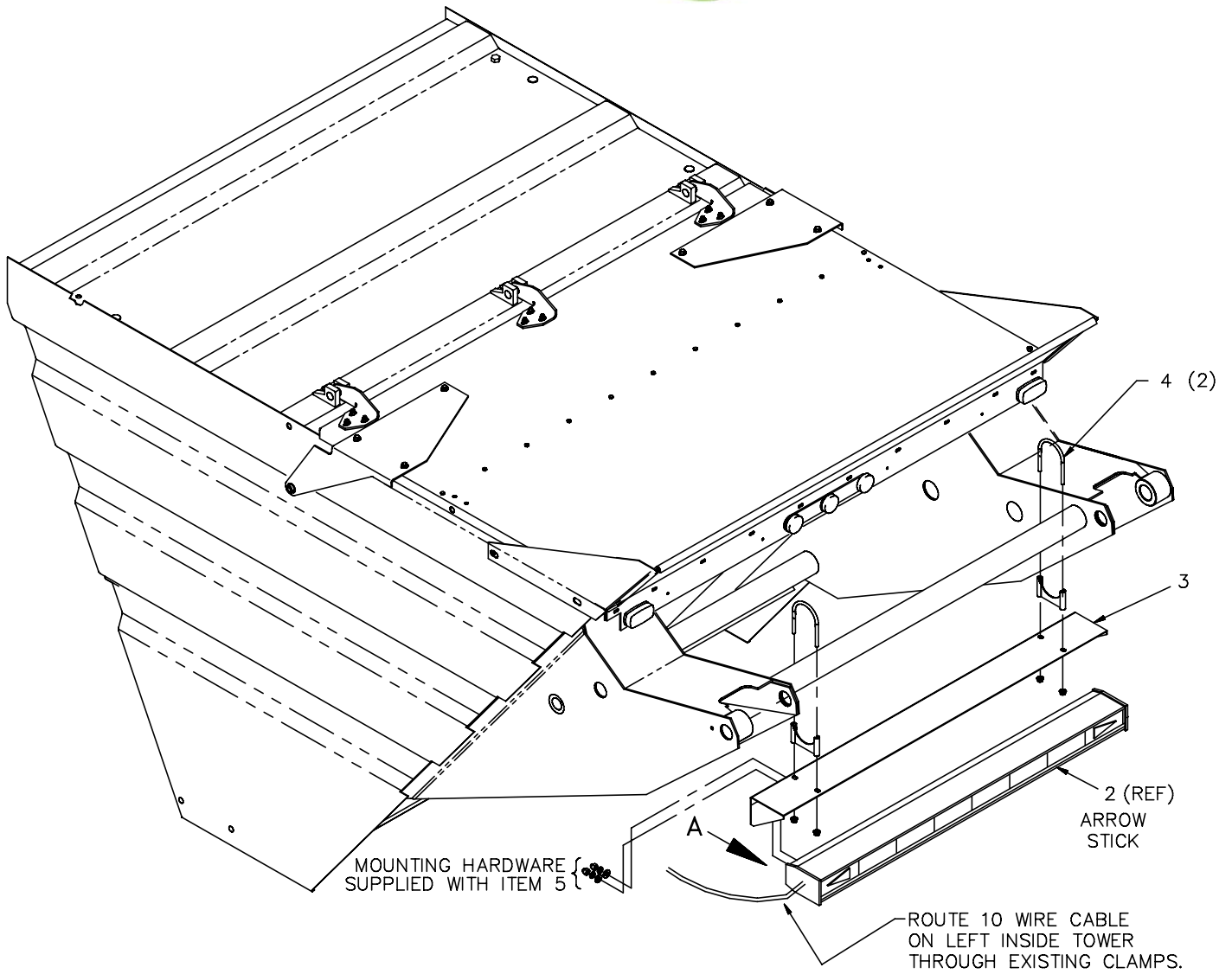
VIEW B

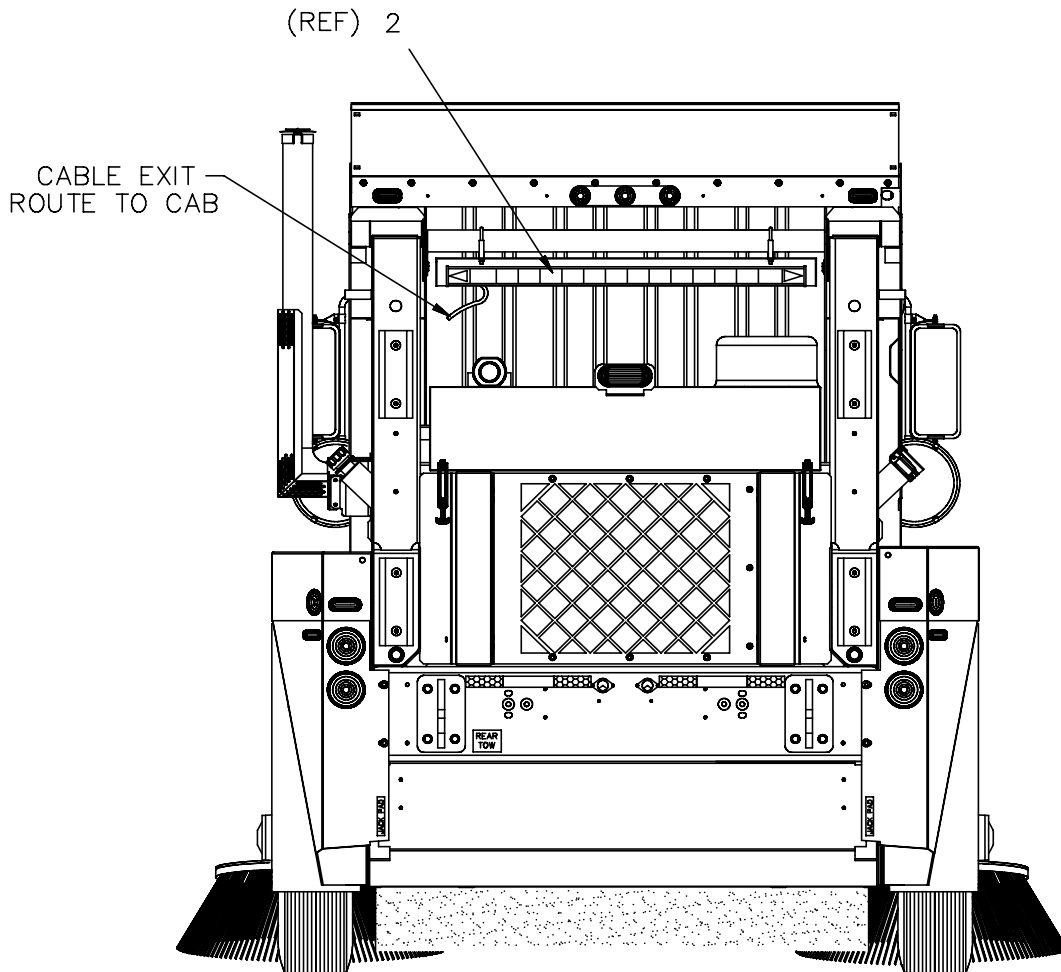
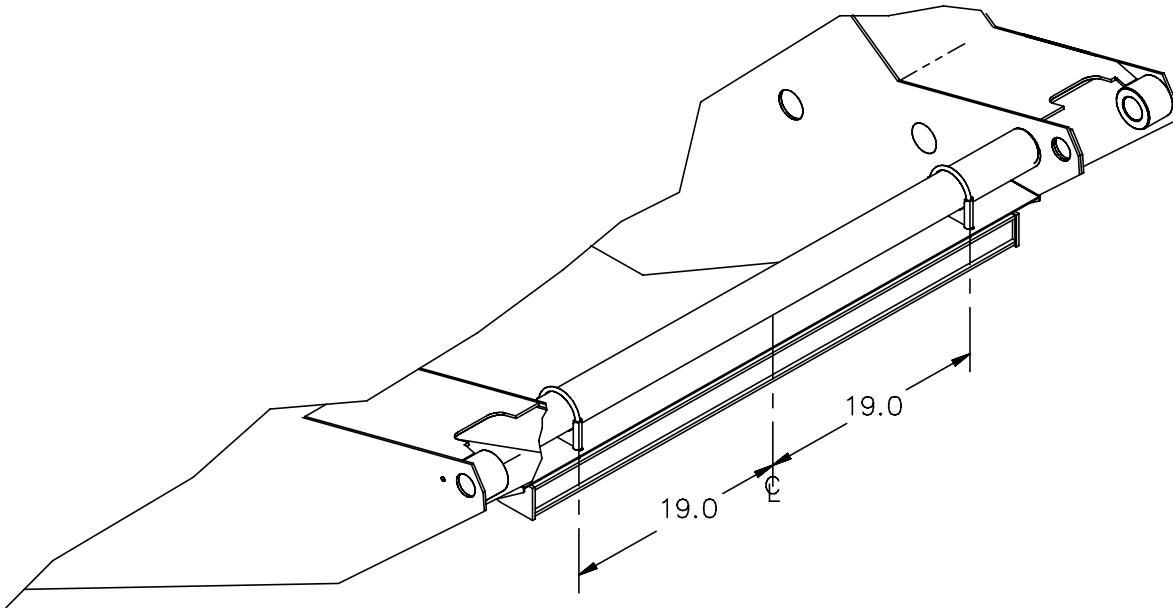


AFTER INSERTING WIRES INTO ITEM 5 CONNECT TO MATING PLUG ITEM 2 ON ARROW STICK. SEE DRAWING (322549)

CONNECTS TO MATING RECEPTACLE ITEM 5 ON ARROW STICK. SEE DRAWING (322549)









Arrow Stick Installation (Halogen)

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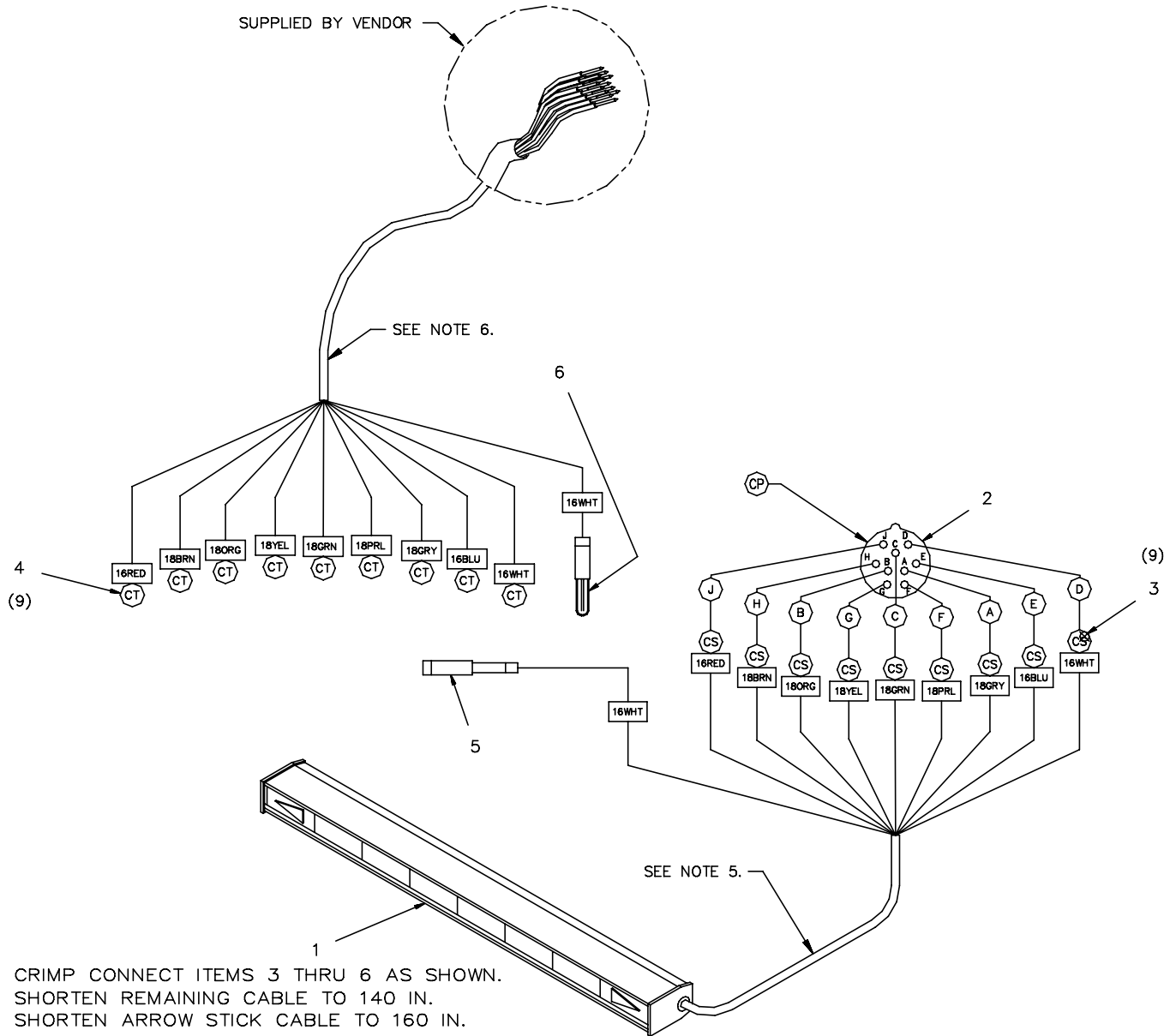
Item	Pt No.	Description	Qty
-	325206	Arrowstick Instl (Halogen)	B Ref
1	325168	Bracket, Mounting – Controller	2
2	322549	Arrow Stick– Halogen, Rework	1
3	320809	L Bracket Support Wldmt	1
4	312504	Clamp, Exhaust, 3” Dia	2
5	307901	Plug 9–way (Cr)	1
6	900114	Scr–truss Hd,Slit,Pl,1/4–20x3/4	2
7	609606	Washer Flat Sae Plated 1/4	2
8	900105	Nut–keps, Plated, 1/4–20	2
9	381860	Instl & Operation Instructions	1
10	326202	Bracket, Mounting – Arrow Stick	2
11	034423	Scr–Hx Hd,3/8–16x1 Gr8	4
12	030557	Washer Flat Uss Plated 3/8	4
13	023885	Nut– Loc Nyl Insert Plt 3/8–16	4





NOTES
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CHAPTER 9



7. CRIMP CONNECT ITEMS 3 THRU 6 AS SHOWN.
6. SHORTEN REMAINING CABLE TO 140 IN.
5. SHORTEN ARROW STICK CABLE TO 160 IN.
4. ALL WIRES ARE SOLID COLOR INSULATION.
3. ALL WIRES ARE 18GA. UNLESS OTHERWISE SPECIFIED.
2. ITEM 2 SHOWN FROM INSERTION SIDE.
1. MANUFACTURE PER ENGINEERING SPECIFICATION ES053.

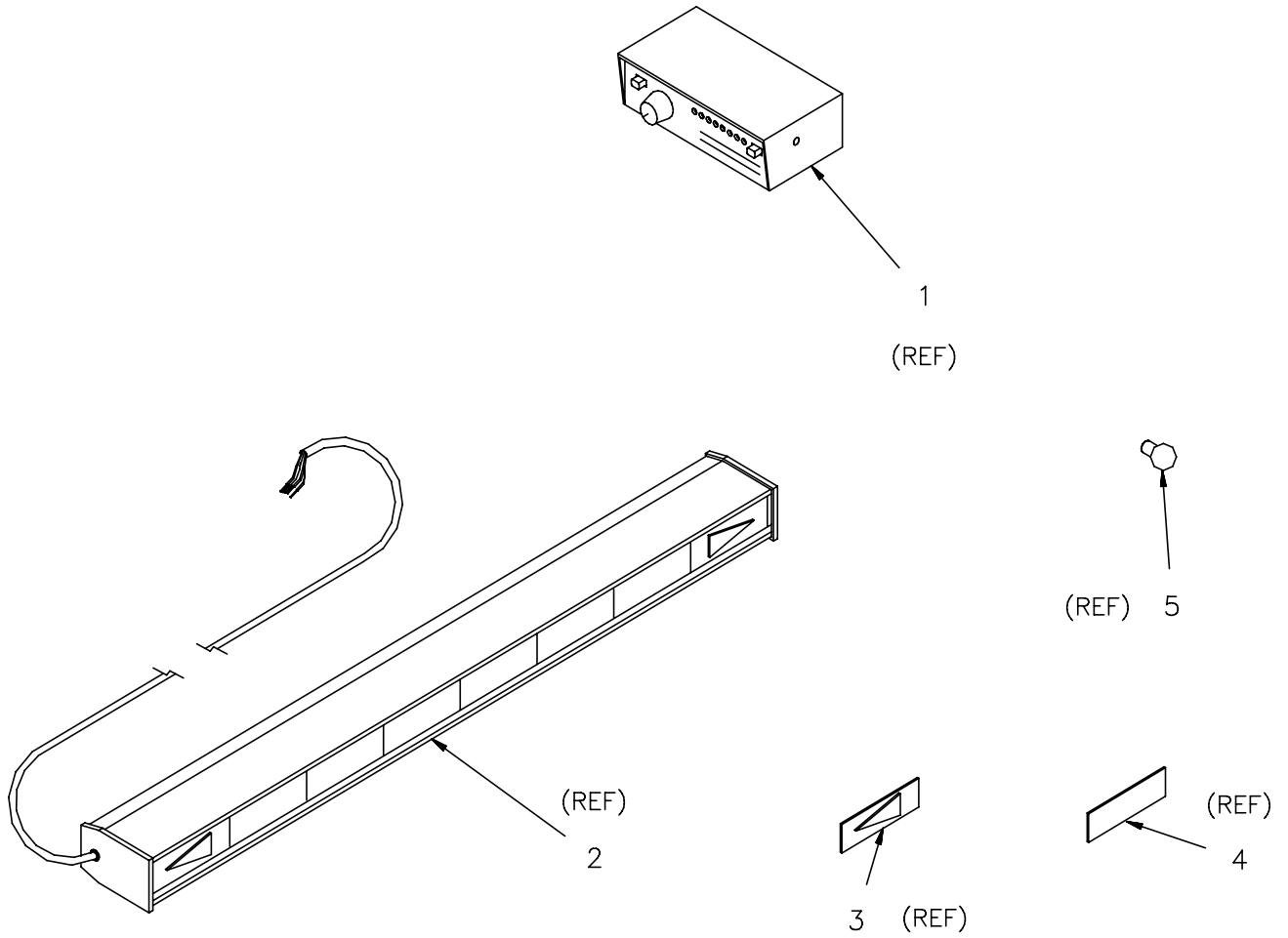
NOTES,

Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	322549	Arrow Stick Assy – Halogen	A Ref	4	307902	Pin Contact (Ct)	9
1	322544	Arrow Stick 3035h – Halogen	1	5	352456	Permaseal Term, Bullet, 16 – 14	1
2	307896	Receptacle – 9 Way	1	6	352445	Permaseal Term (W/D) Bullet	1
3	307897	Socket Contact	9				





NOTES
NOTES

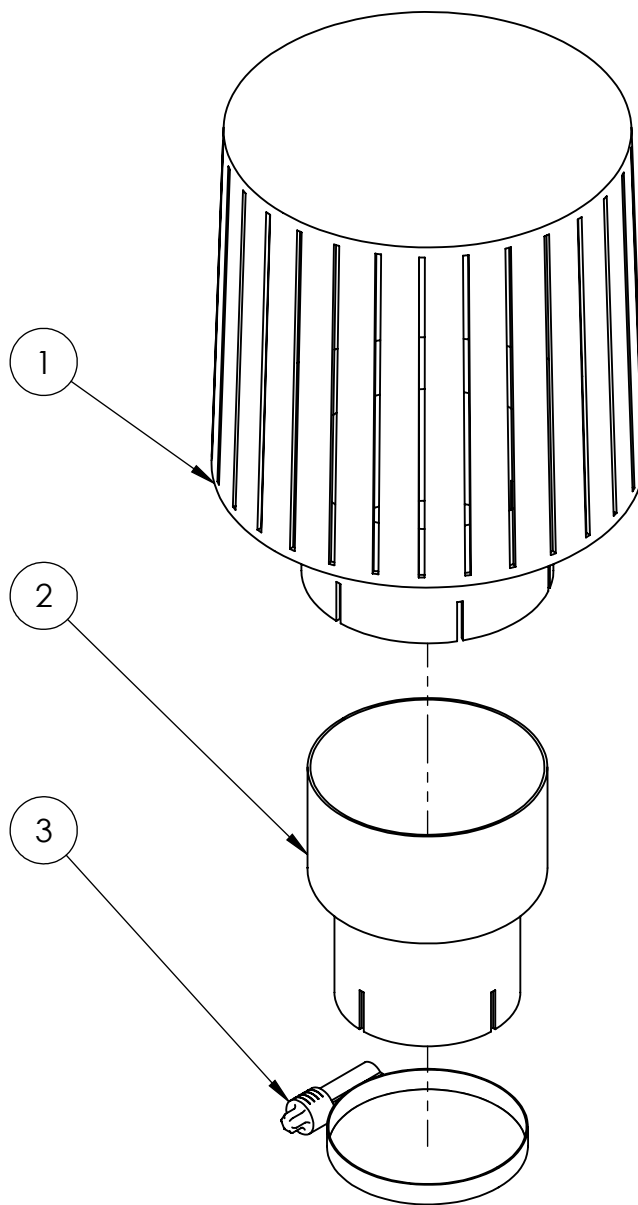


Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	322544	Arrow Stick 3035H- Halogen	B Ref				
1	381513	Control Box	0				
2	381515	Light Bar- Halogen	0				
3	381518	Lens- Amber, Arrow	0				
4	381517	Lens- Amber, Solid	0				
5	381516	Flash Tube	0				



NOTES

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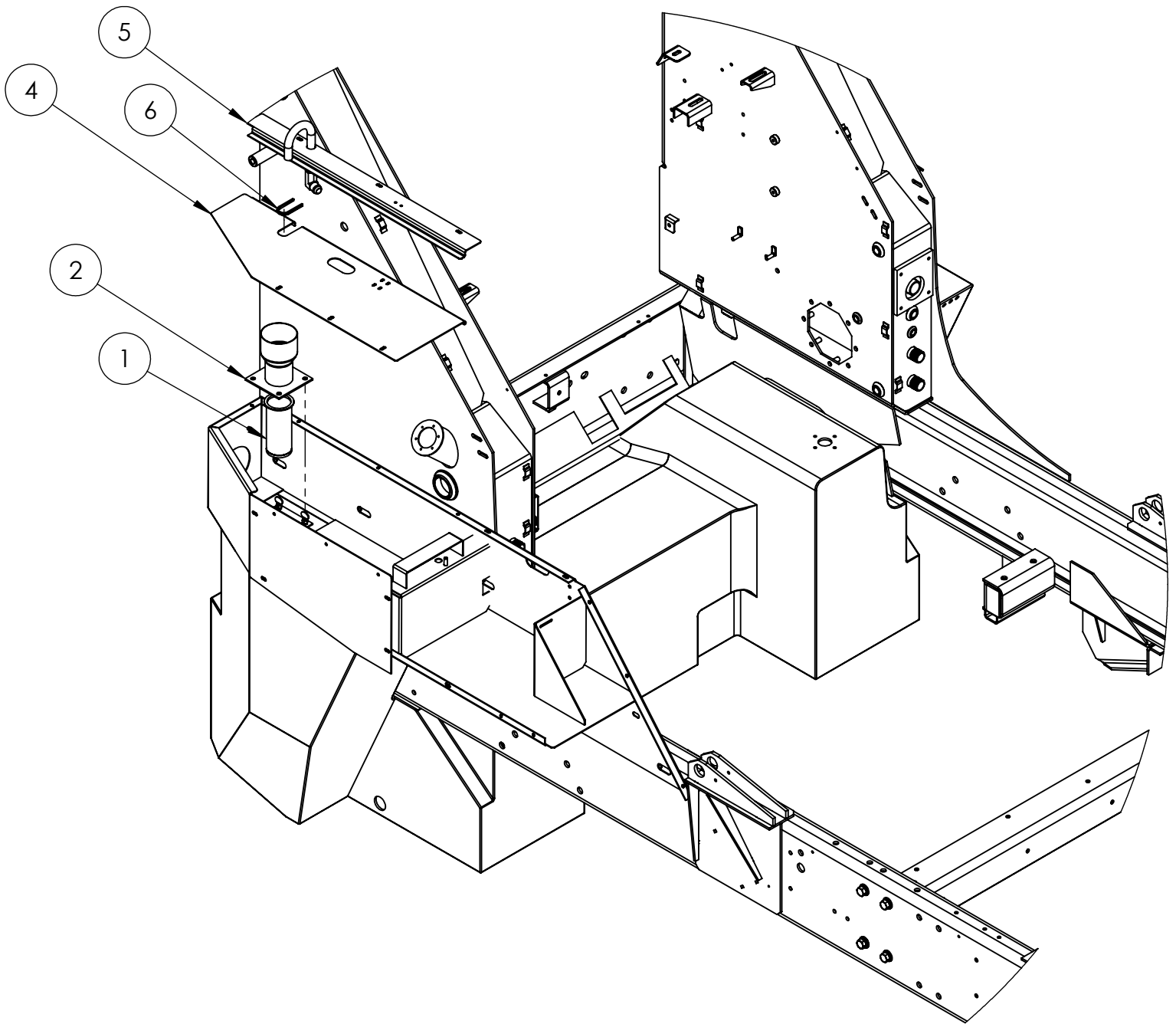


NOTE: Ø5" CLAMP INCLUDED WITH PRECLEANER (NOT SHOWN)

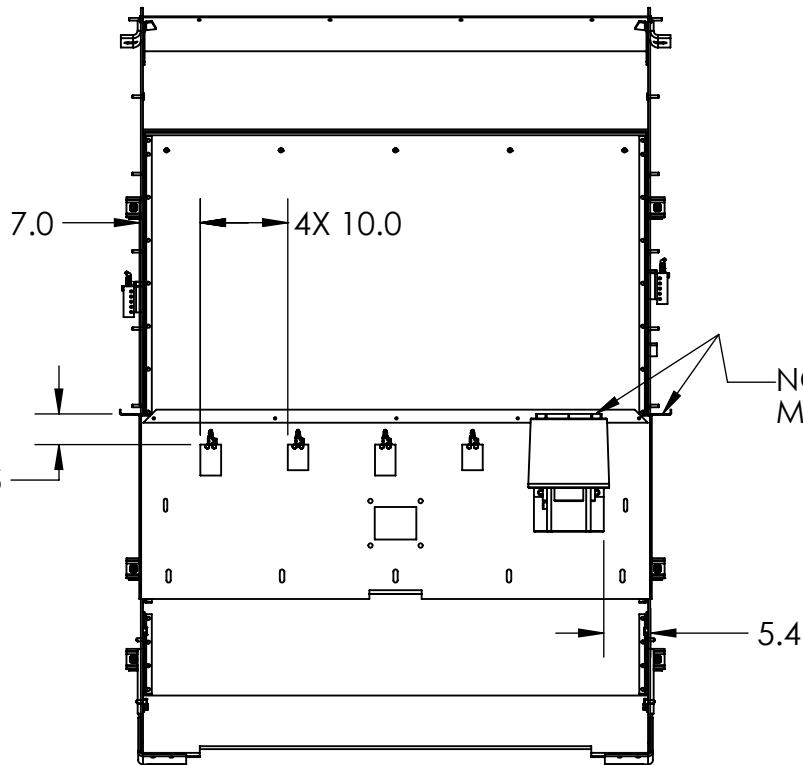
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
REF	331721	TURBO PRECLEANER OPTION TURBO	REV A
1	311517	PRECLEANER	1
2	331712	REDUCER - 5" OD X 3-3/4" ID	1
3	323515	CLAMP, CONSTANT TORQUE, 3.25" - 4.125"	1



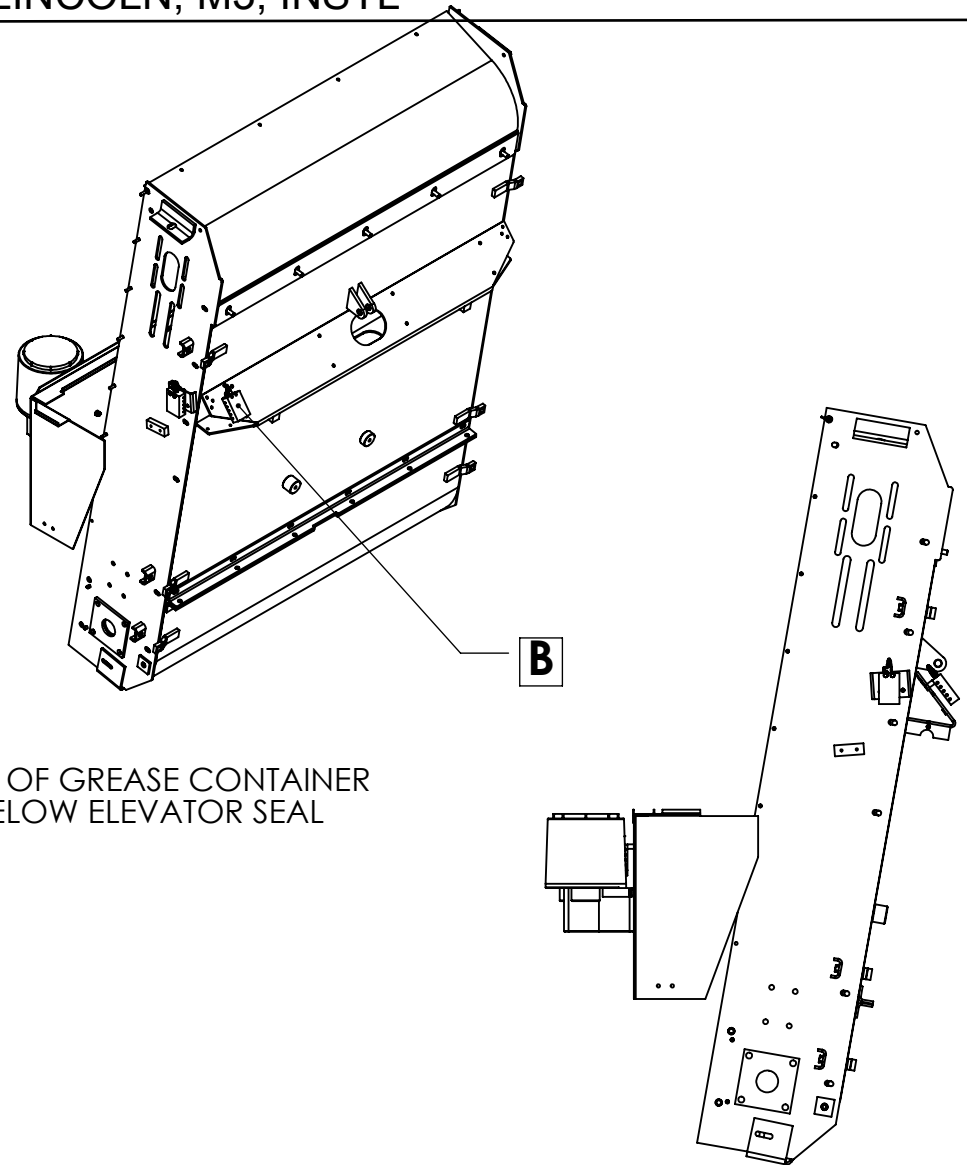
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ITEM NO.	PART NUMBER	DESCRIPTION	QTY
REF	331825	AIR GAP WATER TANK FILL	REV A
1	E354986	STRAINER, WATER FILL	1
2	E248228	COVER PLATE & FUNNEL WELD. FOR AIR GAP	1
3	E323990	PLATE, FENDER PANEL (RH)	1
4	331832	FENDER TOOLBOX LID, RWK	1
5	331833	LID SUPPORT WLDMT, RWK	1
6	1016006-12	TRIM, EDGE, SINGLE LIP 3/16"	1

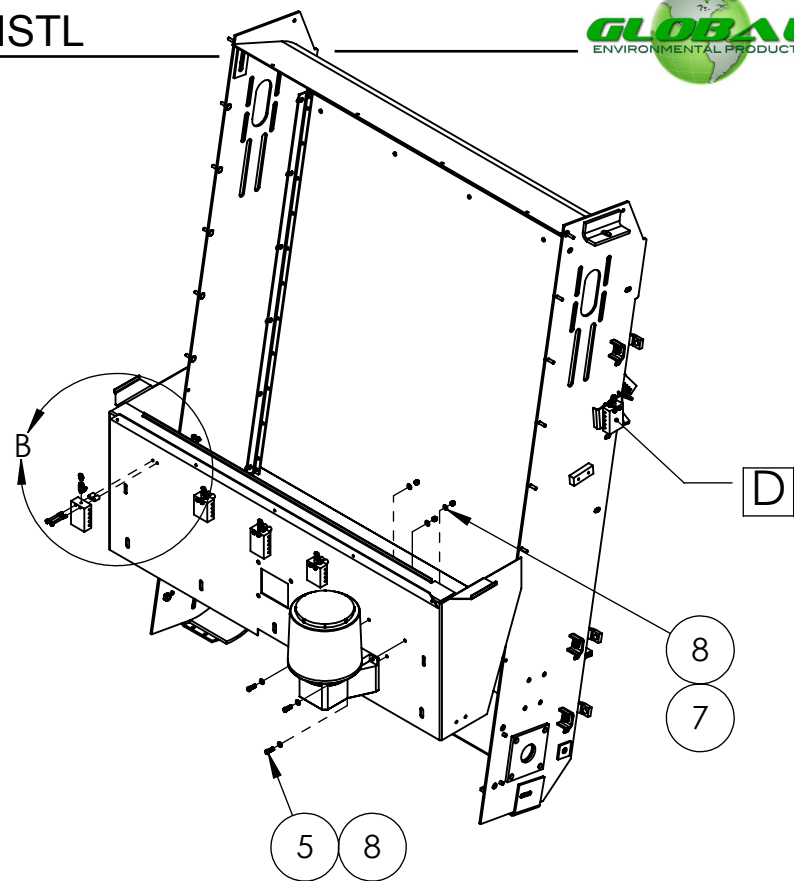
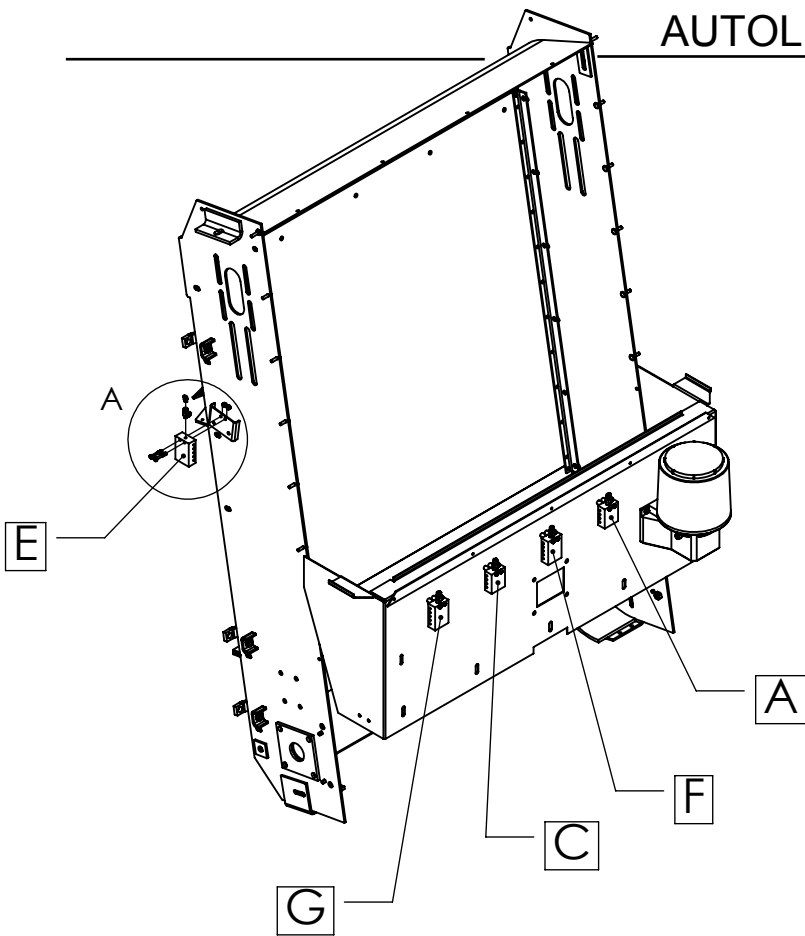


NOTE: TOP OF GREASE CONTAINER
MUST BE BELOW ELEVATOR SEAL



NOTES:

- SEE MIDWEST AUTOLUBE INSTALLATION (248537) FOR GREASE POINT LOCATIONS
- HOSES TO & FROM MANIFOLD "A" ARE HIGH PRESSURE (LARGE DIAMETER)
- HOSES FROM MANIFOLDS TO NUMBERED GREASE LOCATIONS ARE LOW PRESSURE (SMALL DIAMETER)
- TORQUE MANIFOLD MOUNTING BOLTS TO 6.7-8.3 FT-LBS
- "X" DENOTES PLUGGED PORT
- MANIFOLDS "A" & "C" HAVE 8 PORTS, ALL OTHERS HAVE 10 PORTS



CONNECT TO MANIFOLD "A" USING HIGH-PRESSURE HOSE

TEE SUPPLIED WITH AUTOLUBE SYSTEM

TORQUE MOUNTING BOLTS TO 6.7 - 8.3 FT-LBS

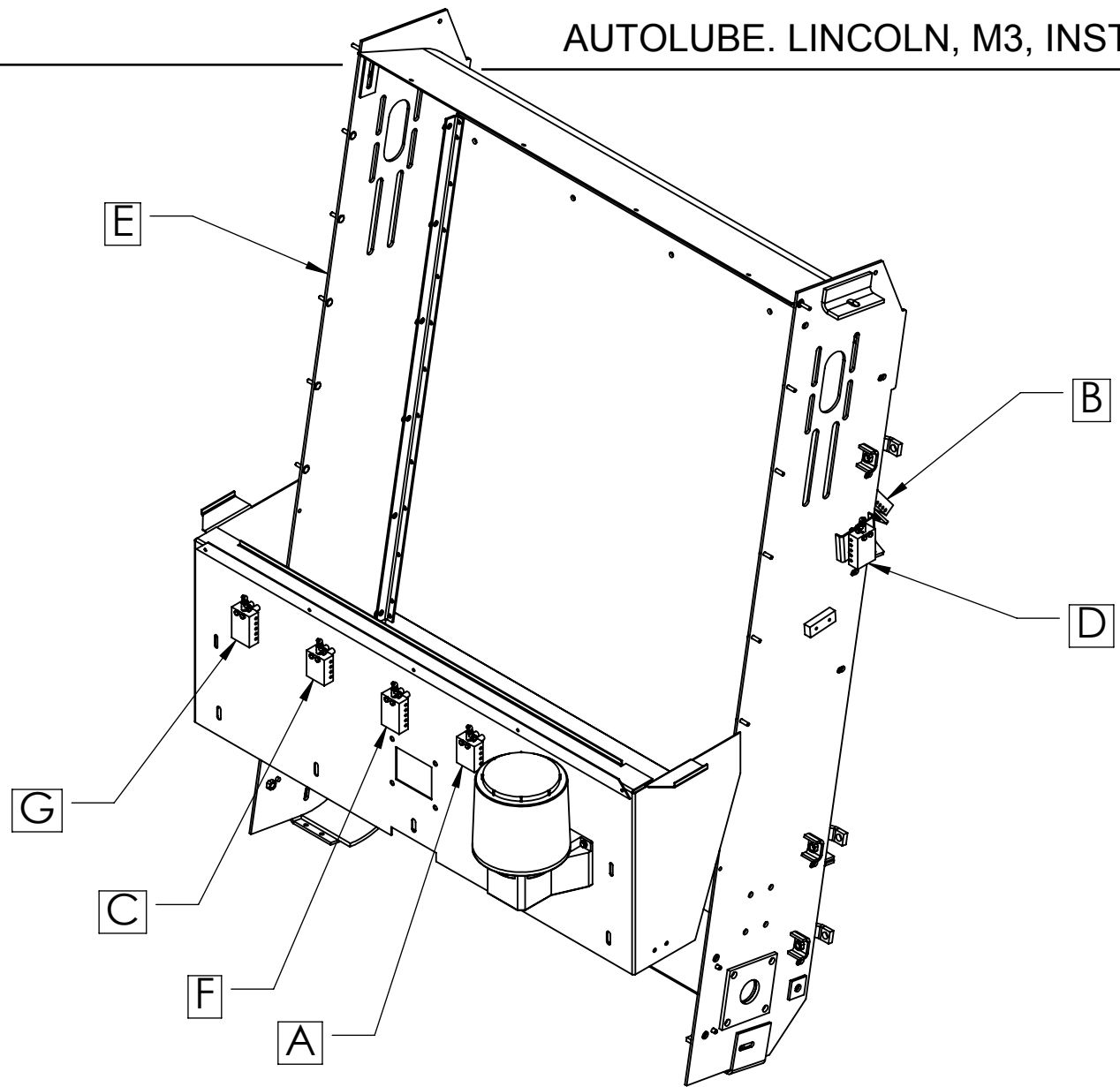
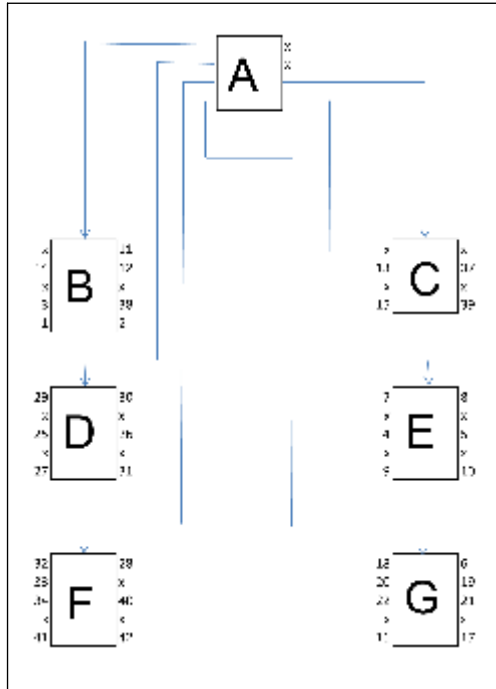
DETAIL A
SCALE 1 : 6

USE MANIFOLD AS TEMPLATE TO DRILL $\phi 9/32$ " MOUNTING HOLES

USE SPACERS TO MOUNT MANIFOLDS "A, B, C, G & F"

DETAIL B
SCALE 1 : 10

MANIFOLD DIAGRAM



NOTES:

- SEE MIDWEST AUTOLUBE INSTALLATION (248537) FOR GREASE POINT LOCATIONS
- HOSES TO & FROM MANIFOLD "A" ARE HIGH PRESSURE (LARGE DIAMETER)
- HOSES FROM MANIFOLDS TO NUMBERED GREASE LOCATIONS ARE LOW PRESSURE (SMALL DIAMETER)
- TORQUE MANIFOLD MOUNTING BOLTS TO 6.7-8.3 FT-LBS
- "X" DENOTES PLUGGED PORT
- MANIFOLDS "A" & "C" HAVE 8 PORTS, ALL OTHERS HAVE 10 PORTS



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
REF	331166	AUTOLUBE. LINCOLN, M3, INSTL	REV A
1	375257	AUTOLUBE SYSTEM - LINCOLN	1
2	331168	SPACER, 1/4" ID X 1/2" OD X 3/4" LG.	10
3	602636	BOLT,HEX,HEAD,Ø 1/4-20-UNC x 2 1/2"LG	8
4	034226	BOLT,HEX,HEAD,Ø 1/4-20-UNC x 1 3/4"LG	4
5	031433	BOLT,HEX,HEAD,5/16-18-UNC x 1"LG	3
6	203375	NUT,HEX,NYLON LOCK,1/4-20-UNC	12
7	023559	NUT,HEX,NYLON LOCK,5/16-18-UNC	3
8	651420	WASHER,FLAT,Ø 5\16", SAE NARROW, 11/16" O.D.	6
9	035133	ZERK FITTING, 45 DEGREE - 1/8 NPT	7



APPENDIX

A

Supplements

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A



APPENDIX **Aa**

Option List

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M3/MX3

Options

PM 10

Qty	Part No.	Description
1	322397	PM10 Installation
1	323494	Elevator Installation - PM10 (ILOS 319167)
1	375111	PUB - Sealer Blend Tight Wind PM10 (ILOS, 304868)
1	323495	Hopper Installation Hi Dump PM-10 (ILOS 320140)
1	323210	PUB Flap Install - PM10

Engine

Qty	Part No.	Description
1	319095	Cold Start Aid (3000)
1	319139	Fuel Shut Valve(all units)
1	306911	Gas Cap, Locking (ILOS 325247)
1	323530	Alternator Kit, 33 SI John Deere
1	31151701	Precleaner, Turbo I (LD)(JD)(ILOS 311400)
1	323410	Precleaner, Centri Model EX-40 (ILOS 311400)
1	323893	Fuel Filter W/Heater Installation (JD)(ILOS 318994)
1	311365	Fuel/Water Separator (JD) (ILOS-318994)
1	324760	Fuel/Water Separator w/Light/buzz(JD)(ILOS-318994)

Elevator

Qty	Part No.	Description
1	323148	Elevator Flusher (ILOS 324456)
1	323150	Elevator & Hopper Flusher (ILOS 324456)
1	322998	Elevator Stall Alarm
1	323466	Elevator Assy 2 pc bottom 11 squeegee (ILOS323467)
1	319610	Elevator, Adjustable Height

Brooms

Qty	Part No.	Description
(1)	301152	Deduct for GB Plates and GB Segments (300905 & 301149)
1	320913	GB Spare 12 Segment Tuff Grip Refill Set
1	302202	GB Spare Aluminum Bolt On
1	057436	GB Spare Plastic Bolt On(Broom only)
2	323124	GB Tuff Grip w/Wear Ring(ILOS, 301152)
2	302192	GB - Aluminum Bolt On (ILOS, 301152)
2	302193	GB - Plastic Bolt On (ILOS, 301152)
2	320915	GB - Poly Filled (ILOS, 301152)
1	323753	GB Flow Control
1	323207	GB, Right Single(ILOS, 322695)
1		GB, Left Single (ILOS, 322695)



Brooms (Continued)

<u>Qty</u>	<u>Part No.</u>	<u>Description</u>
1	308888	GB Plate Wear Ring
1	301149	Gutter Broom (Spare)
1	311700	PUB, Dual Spring Suspension
1	317786	PUB, Arm Assy, Bushing (ILOS 317787)
1	324796	Dirt Shoe W/Carbide insert (ILOS 324797)
1	304895	PUB - Cable Wrap (ILOS, 304868)
1	304373	PUB - Poly (ILOS, 304868)
1	304868	PUB - Red (ILOS 304868)
1	308587	PUB - S/Lock Red (ILOS, 304868)
1	308588	PUB - S/Lock Natural (ILOS 304868)
1	308589	PUB - S/Lock .06/.08 Blend (ILOS 304868)
1	308590	PUB - S/Lock .08/.03 N/Wire (ILOS 304868)
1	308203	PUB - S/Lock .108 Natural (ILOS 304868)
1	324667	PUB - Strip Broom, Poly/Wire Combo (ILOS 304868)
1	320698	Strip Broom(ILOS 304868)
1	395313	Strip Broom Segments(13) SPARE
1	30369004	PUB - Wafer - Poly (ILOS, 304868)
1	320912	50/50 mix wire/poly Tube Broom
1	319802	GB-Hourmeter-RH
1	319803	GB-Hourmeter-LH
1	324587	GB-Odometer Recorder, Miles-LH (3JD)
1	324584	GB-Odometer Recorder, Miles-RH (3JD)
1	324590	Mag P/U (1 Per Unit w/GB or PUB Recorder)
1	319811	GB-Odometer (0-50KPH)-LH
1	324617	PUB- Odometer Recorder, Miles (3JD)
1	319772	PUB- Odometer, (0-50 KPH)
1	319773	PUB- Hour meter
1	306908	Hubometer
1	301149	Gutter Broom
1	30801402	PUB - Spinlock
1	308203	PUB Spinlock .108" Dia.(spare)
1	375000	San Diego style Gutter Broom
1	375003	San Diego style Gutter Broom Plates

Hopper

<u>Qty</u>	<u>Part No.</u>	<u>Description</u>
1	317335	Hopper Access Door (Ribbed)
1	317973	Hopper - Low Dump (ILOS, 320140)
1	310154	Hopper Coating-Urethane
1	324818	Hopper Emergency Lift W/Pump
1	318899	Hopper Lift Opt. (No Pump)
1	323149	Hopper Flusher Inst.(ILOS 324456)
1	323150	Hopper & Elevator Flusher (ILOS 324456)
1	323103	Hopper Full Indicator
1	320140SS	Stainless Steel Hopper (Hopper Only)

Water Spray System

<u>Qty</u>	<u>Part No.</u>	<u>Description</u>
1	316609	Gauge, Water Tank
1	306607	Gravity Fill, Water
1	320164	Washdown Hose 25'
1	305624	Anti Siphon Valve
1	308916	Hydrant Hose 25'

Cab

<u>Qty</u>	<u>Part No.</u>	<u>Description</u>
1	320751	AM/FM Cassette
1	375103	AM/FM Radio w/ CD player
1	323575	Quartz Clock
1	323876	Camera / TV Monitor
1	318806	Seat, High Back Air Gray (ILOS 317052)
1	30811601	Radio, Noise Suppression
1	901325	Cigarette Lighter
2	317134	Limb Guard Blue (ILOS 318900)
1	319934	Toronto style Mirrors
1	306545	Dual Horns
1	319156	Heater (ILOS)
1	324357	Kilometer Speedo (0-50km/h) - M3J (ILOS)
1	324400	Kilometer Speedo (0-50km/h) - M3C (ILOS)
1	313690	Tachograph
1	306350	Turn Buzzer
1	353033	6" Fan
1	1011002	Mirror, Heated and Remote(ILOS, 315832)

Lights & Safety

<u>Qty</u>	<u>Part No.</u>	<u>Description</u>
1	324458	L.E.D. Stop/Tail/Clearance/Marker Lights
1	322402	ECCO Arrowstick(halogen #3035H)
1	322543	ECCO Arrowstick(incandescent #3035)
1	320062	Whelen Traffic Adviser(LDOT)
1	316896	Beacon Bracket
1	315386	Beacon, Amber-Rear
1	316745	Beacon, Amber-Cab
1	312388	Strobe System, Whelen Dot 3 102 A
1		Strobe System, Whelen Dot 3 102B
1	350002	Strobe Kit, Whelen 1200
1	324406	Beacon/Strobe, Cab & Hopper Mounted
1	324443	Dual Cab Top Strobe
1	302523	Limb Guard (Cab Mounted)
1	316744	Strobe, Amber (Cab Mounted)
1		Limb Guard (Rear Mounted)
1	310554	Strobe, Amber (Rear Mounted)
1	323126	Dual Rear Strobe, Amber (ECCO 6640)
1	316606	Rear Alt. Flashers, Amber, 2
1	316742	Flasher, Amber, SF



Lights & Safety (Continued)

<u>Qty</u>	<u>Part No.</u>	<u>Description</u>
1	316743	Flasher, Amber, DF
1	316607	Flood Lights, Dual Rear
1	324158	Front Flood Light (Dual)
1	057966	Fire Extinguisher 5#
1	302224	Fire Extinguisher 2 1/2#
1	10891-2	Triangular Flare Kit
1	323541	First Aid Kit
1	319758	Utility Light-Cab
1	302220	Slow Moving Vehicle Sign
1	896851	Safety Red/White Striping Rear
1	896852	Safety Chevron White Striping Rear
1	324815	Daytime Running Lights
1	324783	Daytime Running Lights

Wheels & Tires

<u>Qty</u>	<u>Part No.</u>	<u>Description</u>
1	323726	Spare Wheel/Tire-Front
1	313807	Spare Wheel/Tire-Rear
1	323724	Wheel Only-Front
1	313720	Wheel Only-Rear
1	323725	Spare Tire Only - Front
1	309123	Spare Tire Only - Rear
1	306623	Mud Flaps, Rear
1	381356	Jack Tool (Toronto)
1	319564	Adapter, Jack-Assembly

Special Options

<u>Qty</u>	<u>Part No.</u>	<u>Description</u>
1	324187	Solargizer 12V
1	324147	Manual Parking Brake Release
1	318918	Autolube - 7 Point System
1	319124	Autolube - Full System
1	324288	Manual, Parts
1	324289	Manual, Service
1	381290	Cummins Parts
1	381291	Cummins Maintenance/Operations
1	381292	Cummins Troubleshooting



Special Options (Continued)

<u>Qty</u>	<u>Part No.</u>	<u>Description</u>
1	307242	Step installation rear and side(4 Steps)
1	303305	Special Paint - Hopper - Cab - Frame (Est) (Dealer To Provide Color Sample/Lettering/Striping)
1	375073-1	1 Year extended warranty (Parts Only)
1	375073-2	2nd Year extended warranty (Parts Only)
1		8" wide black safety stripes applied to rear of unit (M3 / M4) in an inverted "v" pattern - dealer to provide sketch.
1	307937	Magnet Bar, Front Mounting
1	381491	Complete set of Filters
1		Cummins five year warranty



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APPENDIX **Ab**

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