

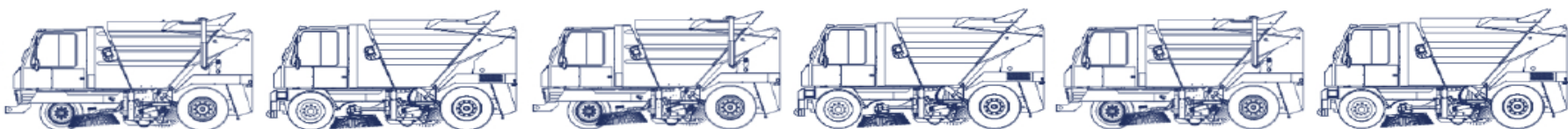


GLOBAL R3 AIR

Parts Manual

Mechanical Sweeper
JANUARY 2018

Manual GS335172



2018

GLOBAL RES AIR
Parts Manual

JANUARY 2018

Part # 335172



GLOBAL R3 AIR



GLOBAL R3 Parts Manual

pn: GS335172, JAN. 2018

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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

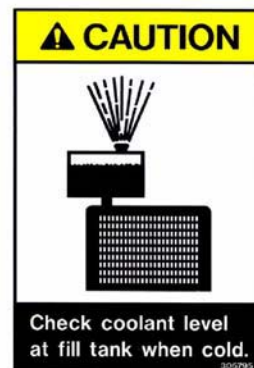
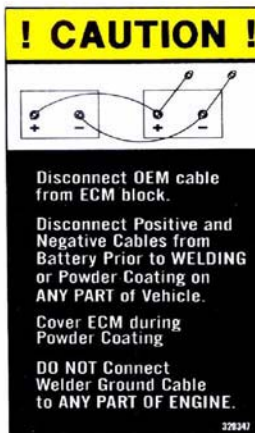
Web: www.globalsweeper.com

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.

213880

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

315732

Raise Step To Closed Position Before Driving

317712

WARNING

Turn off all sweeping functions before shutting engine off.

328439

CAUTION!

After starting engine, PAUSE momentarily before shifting.

325497

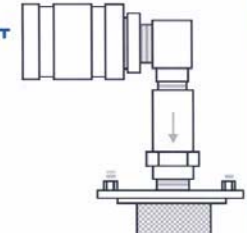
ATTENTION!

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

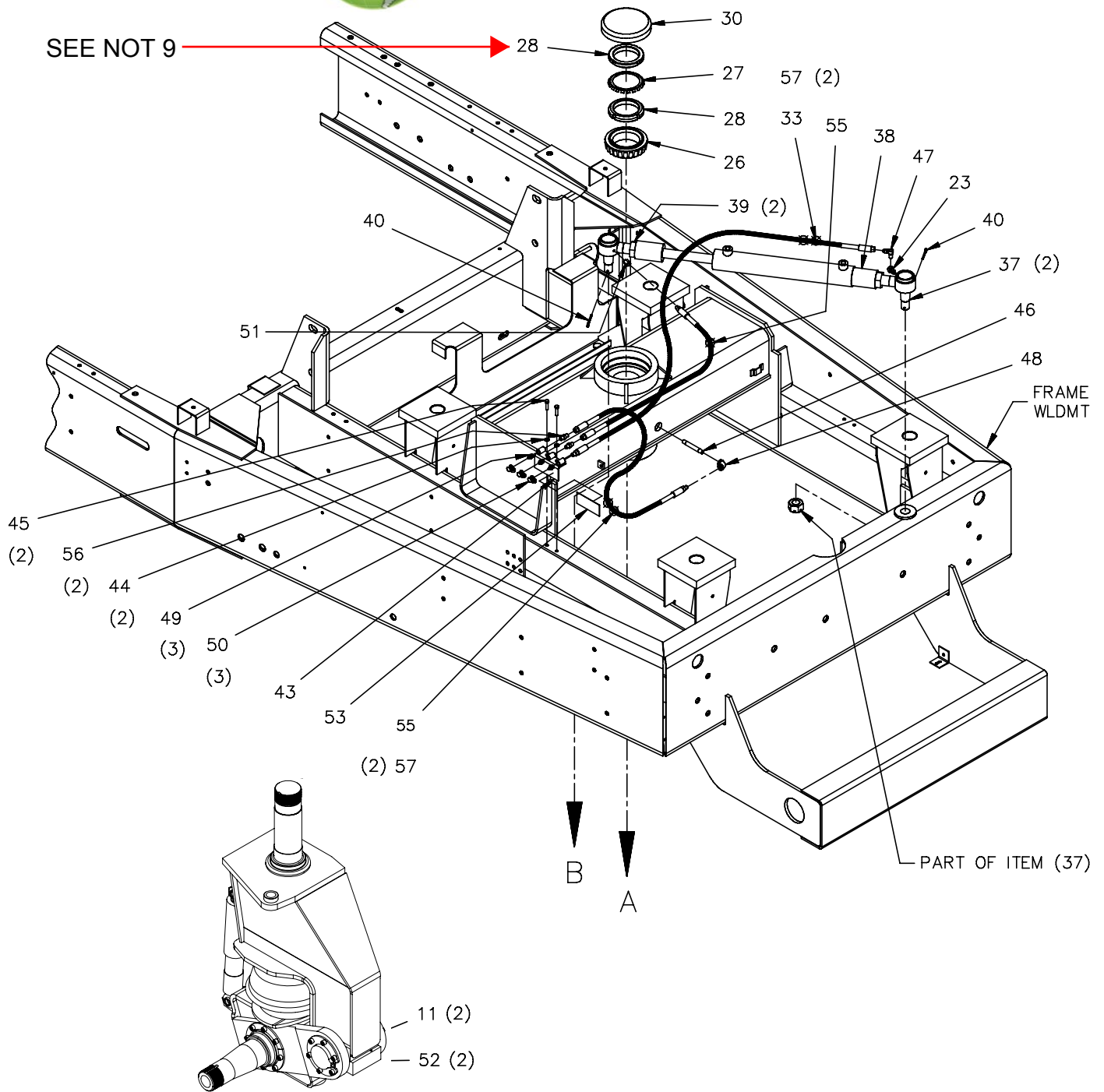
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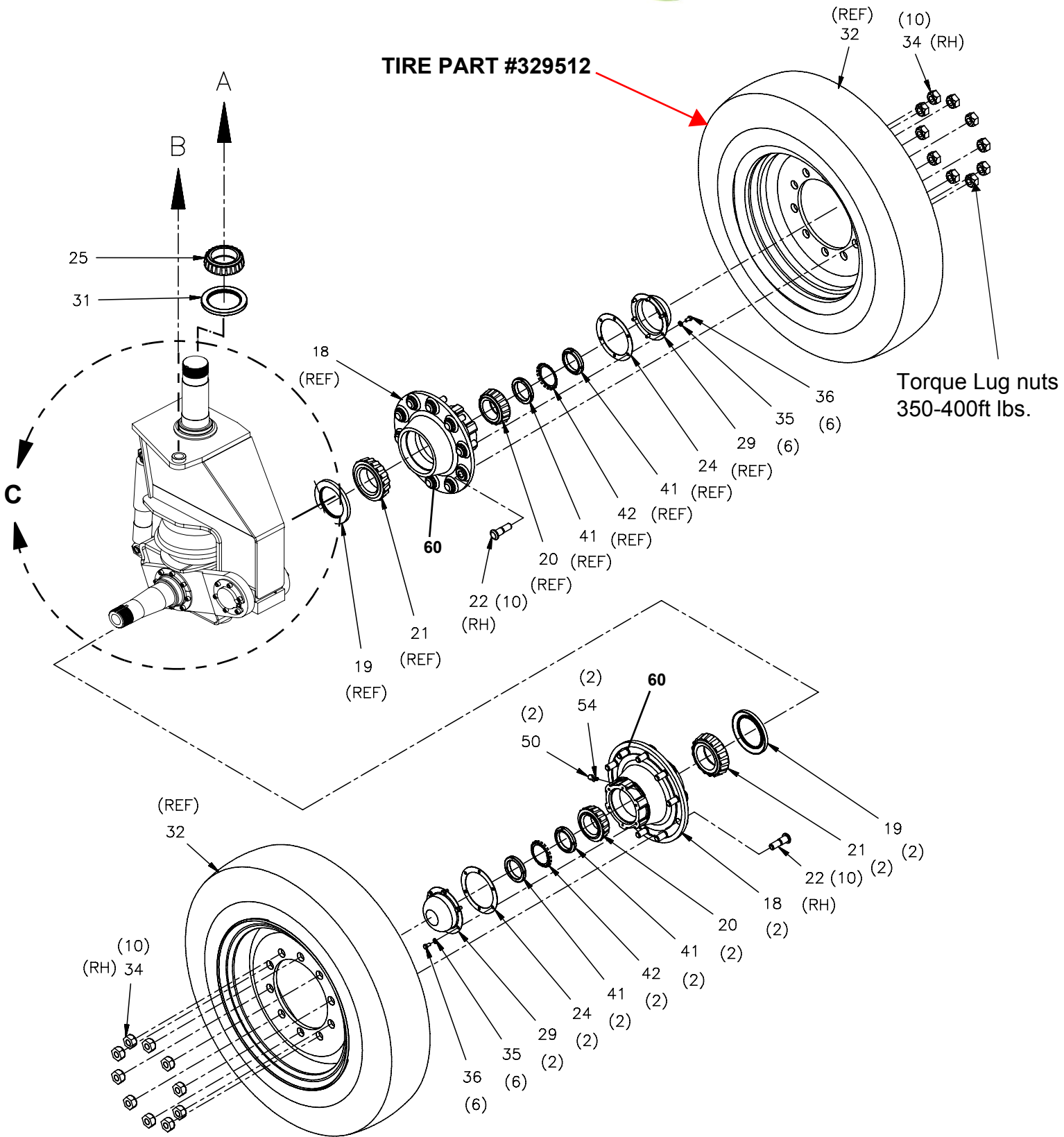
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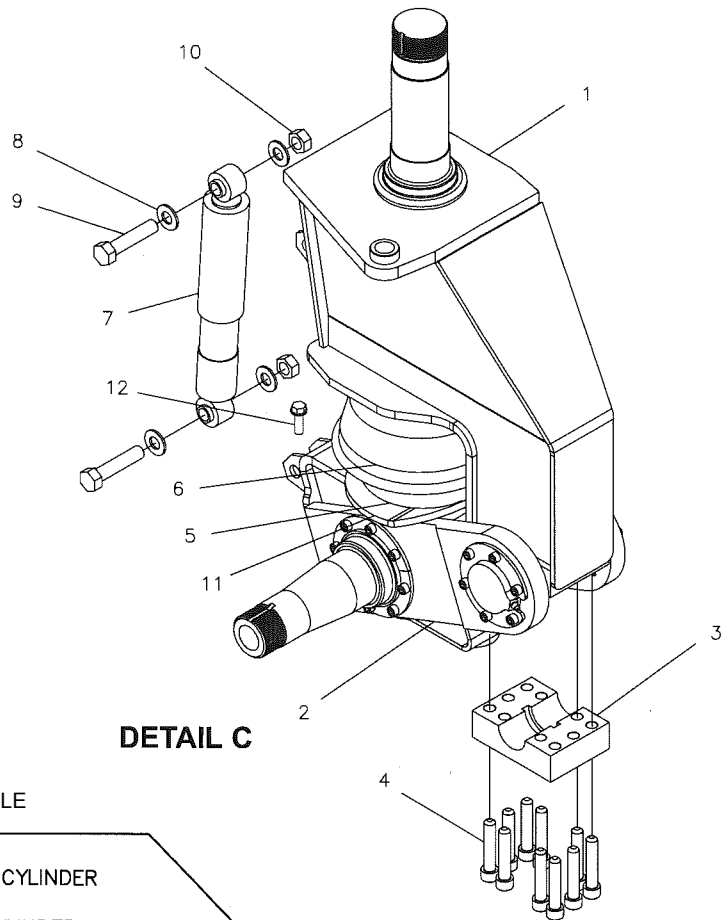
Group--Axle/Brakes/Drive

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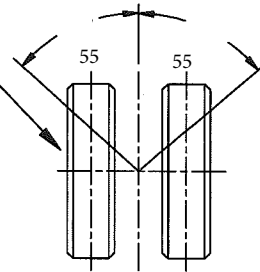
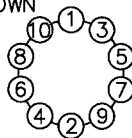






DETAIL C

9. LOCK NUT MUST BE EVEN WITH TOP OF SPINDLE
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.



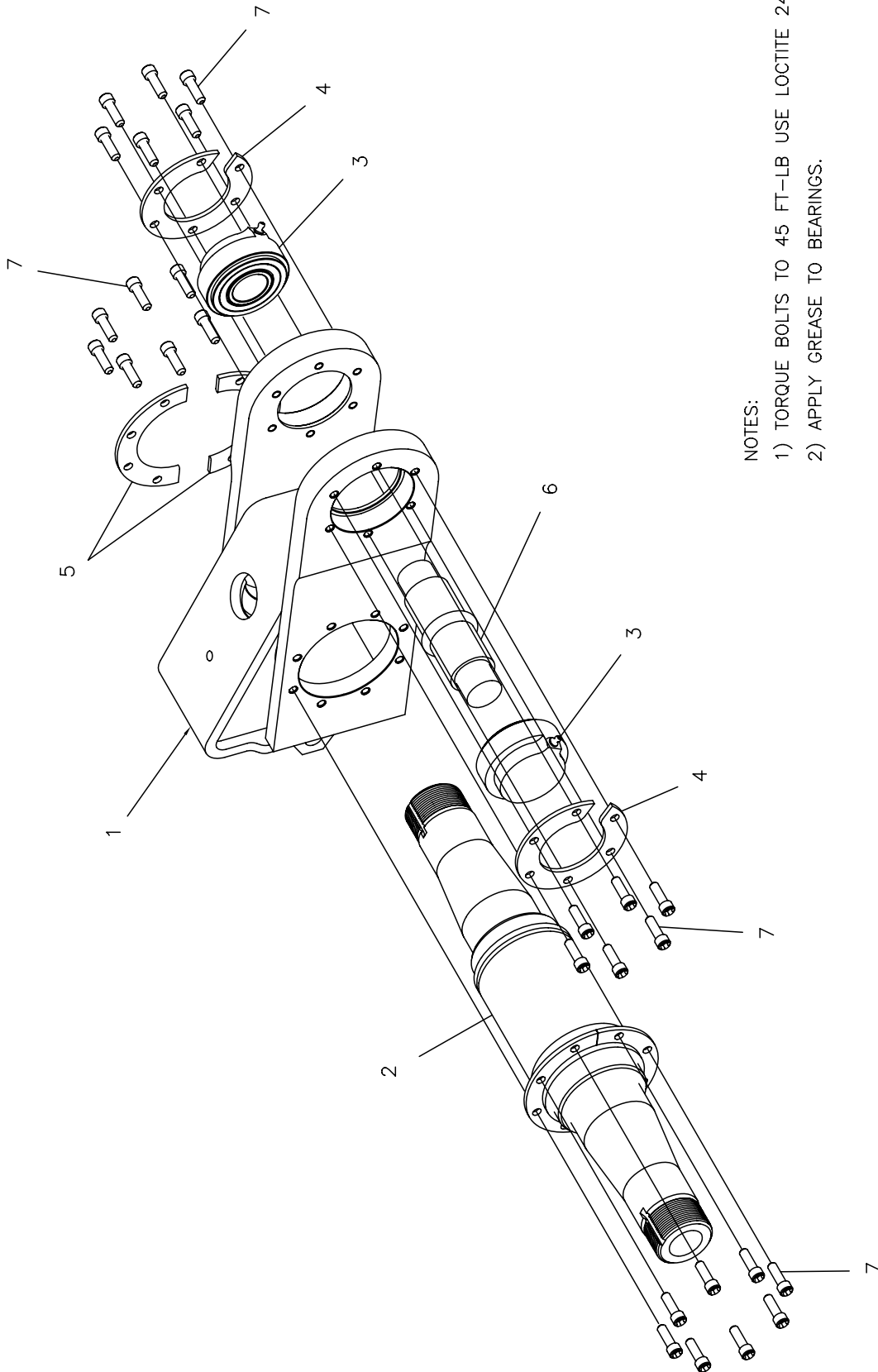
ASSEMBLE HUBS AS SHOWN, DO NOT INSTALL ITEMS 42, 24 & 29 AT THIS TIME.



**Suspension
Brake/Drive**

Item Pt No.	Description	Qty
- A323460	Front Suspension Installation Rev 3J	
1	382517 Upper Assembly	1
2	382516 Lower Assembly	1
3	382519 Block	1
4	382520 5/8 Shcb	10
5	382521 Rubber Spring	1
6	382522 Restrictor Can	1
7	382523 Shock	1
8	382524 Washer Flat 3/4 Id X .125 Thk	4
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	329514 WHEEL/TIRE DOUBLE COIN	
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 Locknut	2
41	021001 Lockwasher	4
42	021002 Bracket, Grease Fitting Widmt	2
43	325223 Washer- Loc Split Pltd 1/4 Gr8	1
44	030643 Scr- Hx Hd Pltd 1/4-20 X 1 Gr8	2
45	033125 Nipple 1/8 Npt X 3 Galv	2
46	245924 Elbow, Mj-Mp90-4-2	1
47	033925 Elbow, 1/8 Fpt90, Galv	1
48	030230 Zerk, Tapered 1/8 Npt (#1610)	1
49	030287	3

Item Pt No.	Description	Qty
50	311745 Caplug-Grease Fitting	5
51	325335 Reducer, 1/8 Npt X 1/4-28 Zerk	1
52	030489 Washer Flat USS 5/16	2
53	325337 Decal, Remote Grease	1
54	024190 Zerk Fitting, Long (1/4-28)	2
55	325338 Hose Assy 3/16 Id X 17.5 Cut	2
56	034548 Adapter, Mj-Mp-4-2	2
57	608881 Cable Tie	4
59	382528 Bolt 3/8 Nc X 1,75	1
60	248222 Wheel Spacer	2



NOTES:

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



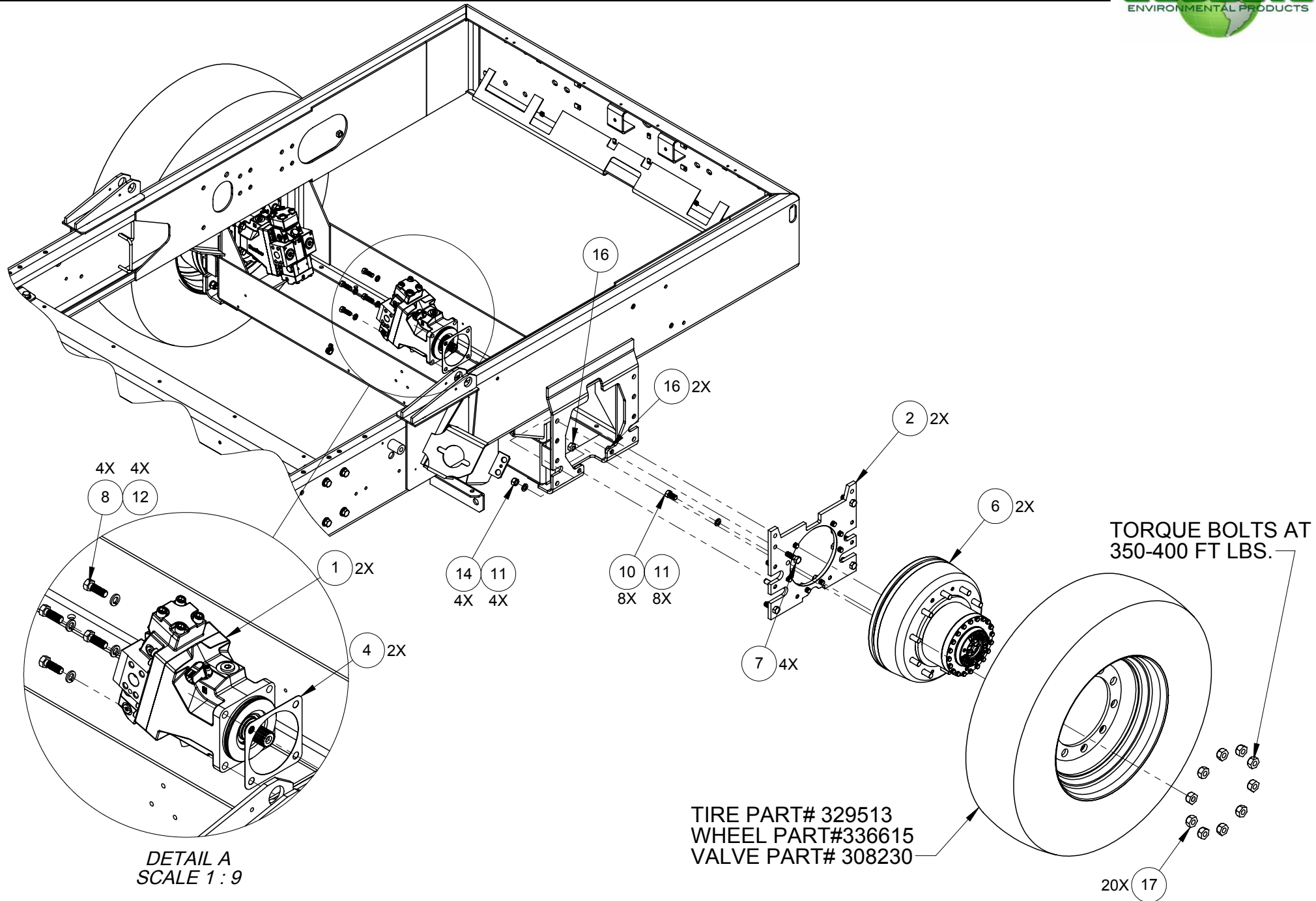
**Suspension
Brake/Drive**

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
-------------	-------------	-----

Rear Axle Non-Suspension

TORQUE HUB INSTALLATION



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
REF	322331	TORQUE HUB INSTALLATION	REV G
1	332895	MOTOR, DANFOSS DRIVE M3	2
2	322329	TORQUE HUB PLATE WLDMT, (LH) SIDE	1
3	322328	TORQUE HUB PLATE WLDMT, (RH) SIDE	1
4	306244	GASKET	2
5	326414	TORQUE HUB (RH) SIDE (#W4C18HD421)	1
6	326415	TORQUE (LH) SIDE (#W4C18JD421)	1
7	305399	BOLT,HEX,HEAD,5/8-11-UNC x 2"LG	8
8	033151	BOLT,HEX,HEAD,1/2-13-UNC x 1 1/2"LG	8
9	033145	BOLT,HEX,HEAD,Ø 1/4-20-UNC x 3/4"LG	1
10	305116	BOLT,HEX,HEAD,5/8-11-UNC x 1 1/4"LG	16
11	031146	WASHER,SPRING LOCK,Ø 5/8"	24
12	030592	WASHER,SPRING LOCK,Ø 1/2"	8
13	030643	WASHER,SPRING LOCK,Ø 1/4"	1
14	030420	NUT, HEX, 5/8-11-UNC	8
15	030703	NUT, HEX, 1/4-20-UNC	1
16	313987	NUT, WHEEL, HEX 5/8-11UNC	8
17	021008	NUT- LUG	20
18	461755	CLAMP LOOP DG 10	1
19	319074	FITTING HYD, STR, MALE M14-1.5XFNPT-04	2
20	609835	CONNECTOR, MP-INV-FL-4	2

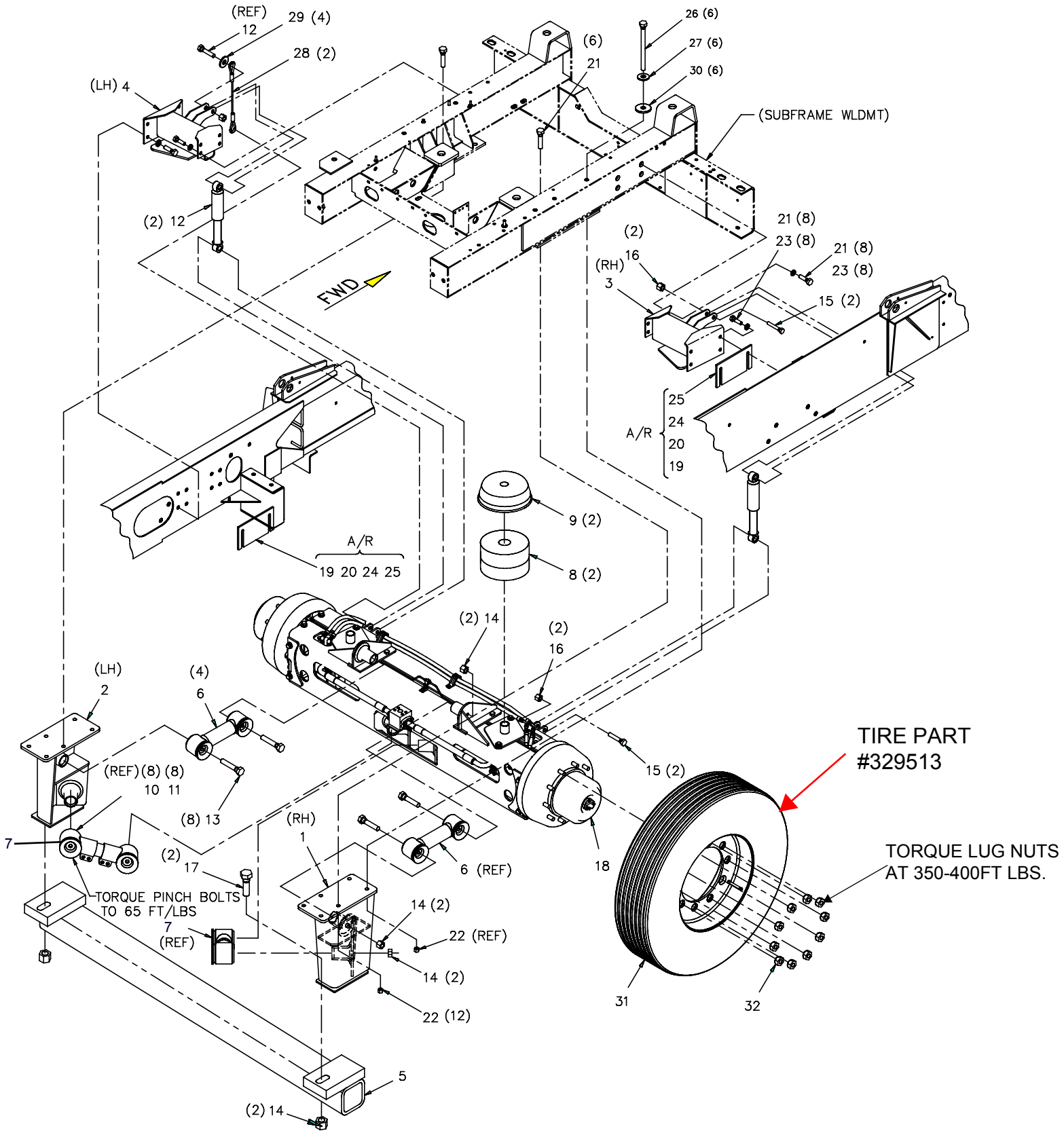
Rear Axle W/ Suspension

Note: This is an additional option and may not be included in this vehicle.

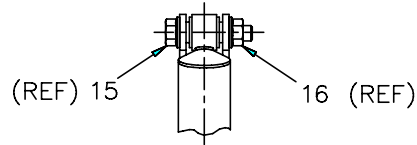
Rear Suspension Installation



CHAPTER 1

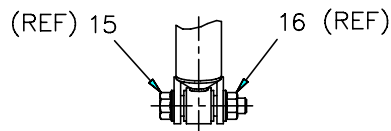


UPPER SHOCK MOUNT



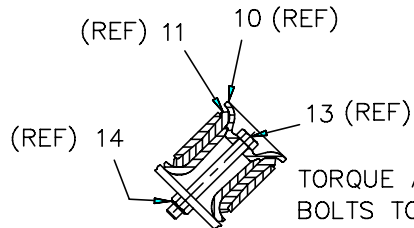
TORQUE ALL SHOCK
ABSORBER NUTS &
BOLTS TO 175 FT/LBS.

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:



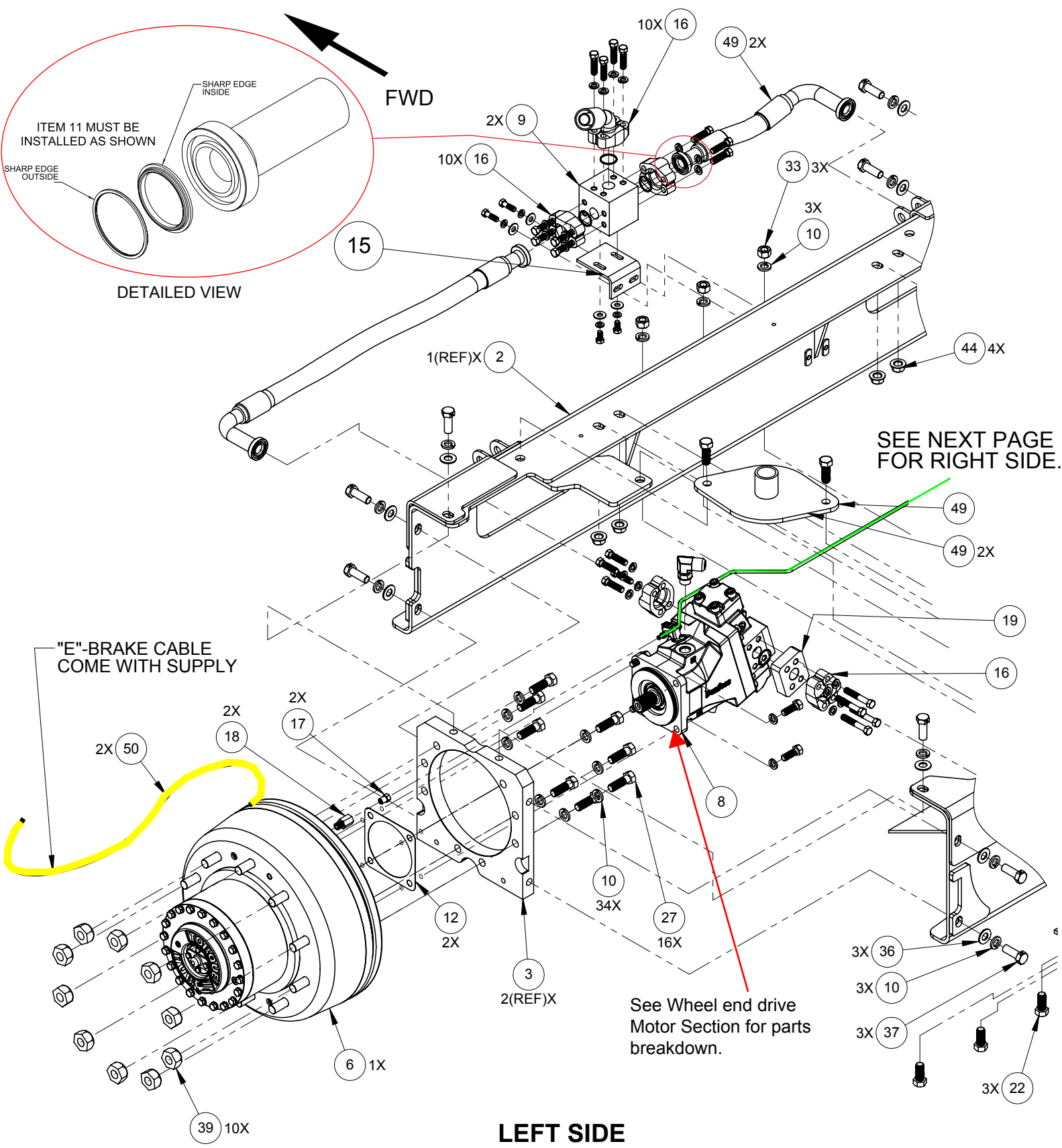
Rear Suspension Installation

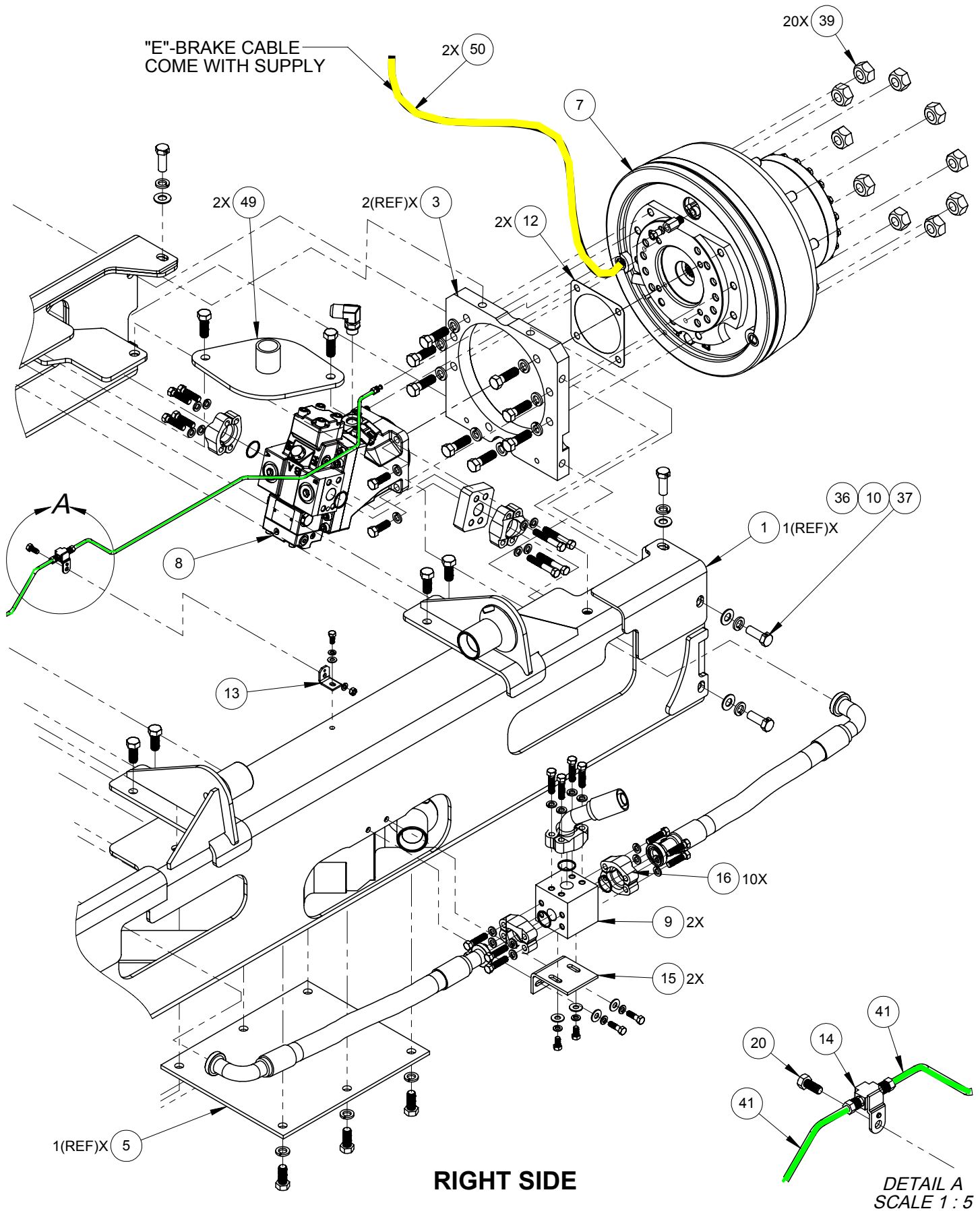
CHAPTER 1

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	329515	Wheel/Tire Assembly– Rear	2
18	335305	Drive Axle Assembly	1		313720	Wheel–v3rear, 8.25 X 22.5	1
19	322050	Shim Plate– Suspension, 3/8 Ss	1		329513	Tire–tubeless 11r22.5 (Rear)	1
20	315944	Shim Plate– Suspension	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				

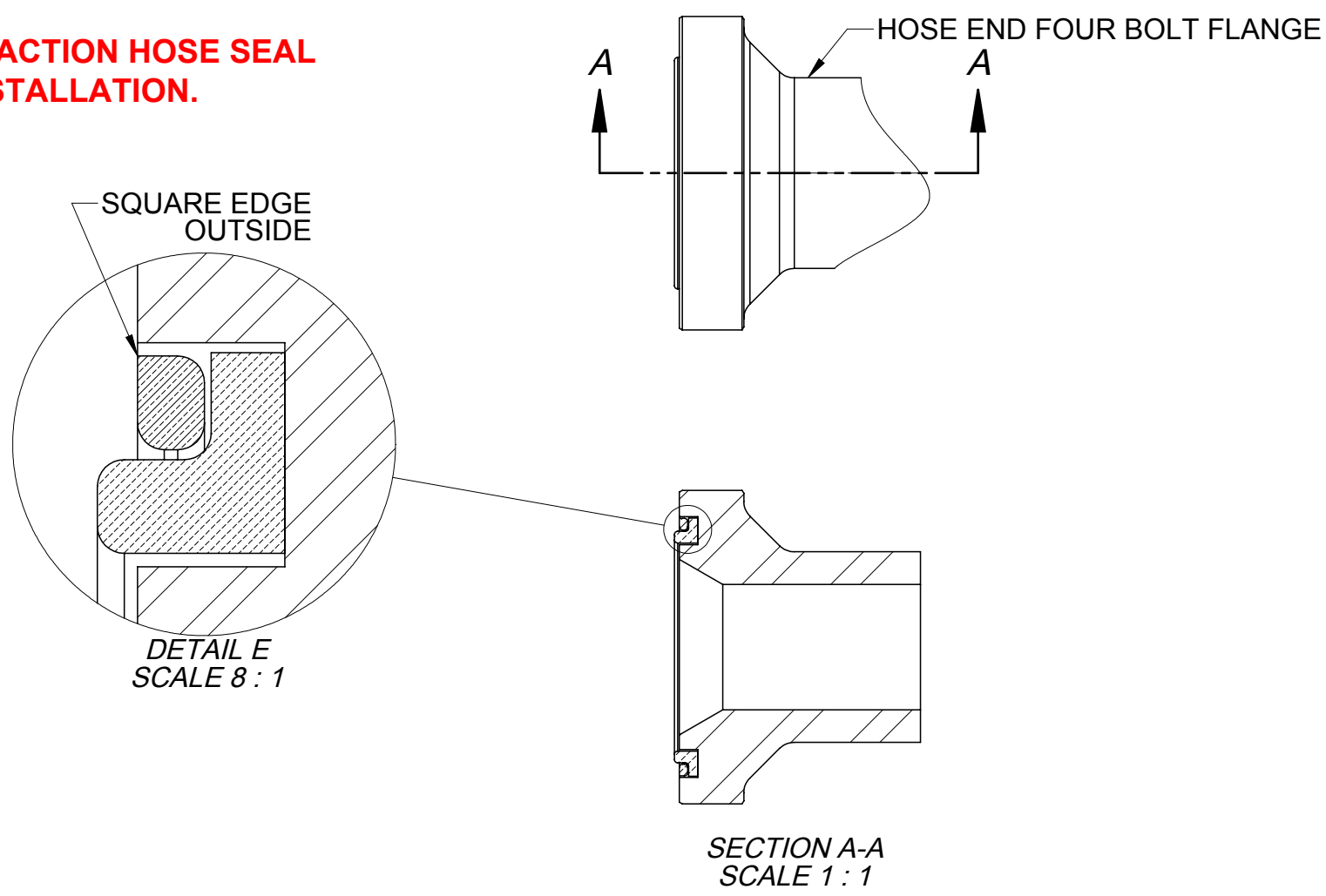


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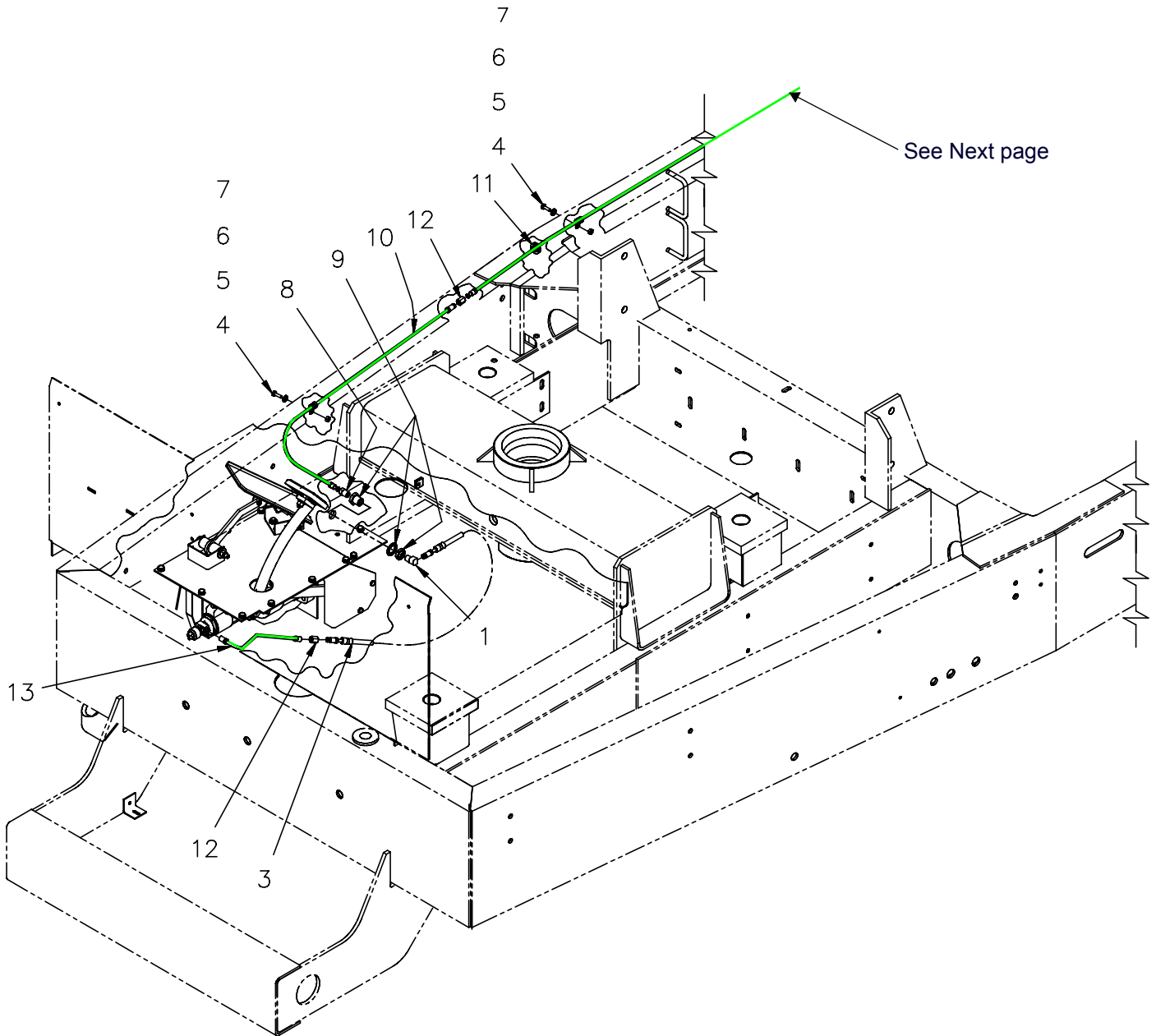


**TRACTION HOSE SEAL
INSTALLATION.**



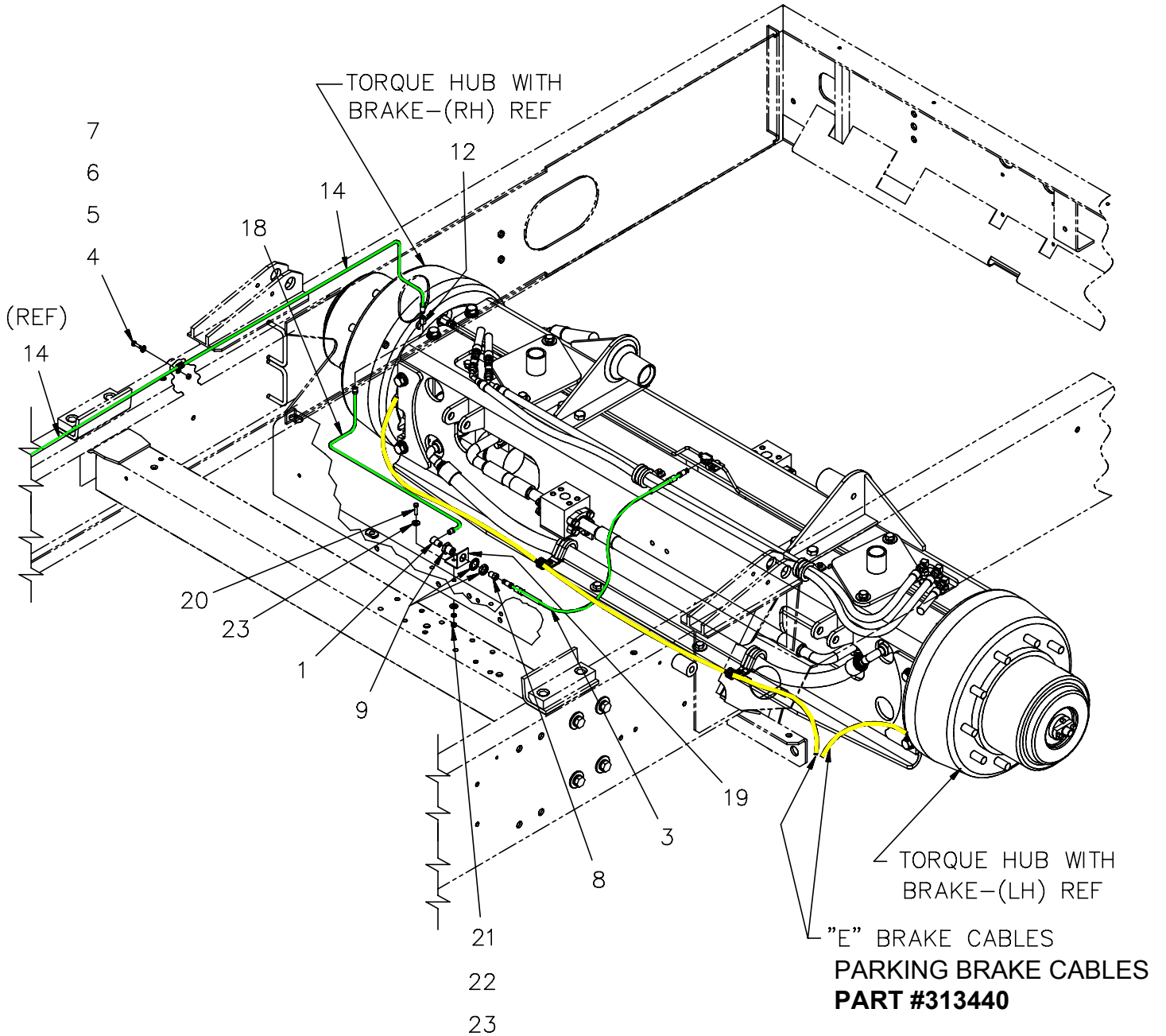
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
REF	335305	REAR AXLE	REV B
1	334726	CHANNEL REAR SUSPENSION, WLDMT	1(REF)
2	334727	Z-PLATE REAR SUSPENSION, WLDMT	1(REF)
3	322085	MOUNTING PLATE, TORQUE HUB	2(REF)
5	323422	PLATE- TIE	1(REF)
6	326415	TORQUE (LH) SIDE (#W4C18JD421)	1
7	326414	TORQUE HUB (RH) SIDE (#W4C18HD421)	1
8	332895	MOTOR, DANFOSS DRIVE M3	2
9	308962	BLOCK TEE	2
10	031146	WASHER,SPRING LOCK,Ø 5/8"	34
11	307016	SEAL - STATIC FACE 1"	10
12	306244	GASKET	2
13	323440	ANGLE, BRAKE TEE SUPPORT	1
14	323442	FITTING, UNION TEE W/BACKET	1
15	323518	BRACKET, BLOCK -T HYD.	2
16	308533	HALF-SPLIT FLANGE 1" (CODE 62)	10
17	609835	CONNECTOR, MP-INV-FL-4	2
18	319074	FITTING HYD, STR, MALE M14-1.5XFNPT-04	2
19	323527	BLOCK-SPACER HYD. HOSE	2
20	030483	BOLT,HEX,HEAD,5/16-18-UNC x 3/4"LG	2
21	18004-54	BOLT,HEX,HEAD,5/8-11-UNC x 1 3/4"LG	4
22	031457	BOLT,HEX,HEAD,5/8-11-UNC x 1 1/2"LG	10
23	033147	BOLT,HEX,HEAD,3/8-16-UNC x 3/4"LG	4
24	033139	BOLT,HEX,HEAD,3/8-16-UNC x 1 1/4"LG	4
25	309825	BOLT,HEX,HEAD,7/16-14-UNC x 1 3/4"LG	32
26	323561	BOLT,HEX,HEAD,7/16-14-UNC x2 3/4 "LG	8
27	305399	BOLT,HEX,HEAD,5/8-11-UNC x 2"LG	16
28	030373	WASHER,SPRING LOCK,Ø 5/16"	2
29	030605	WASHER,SPRING LOCK,Ø 3/8"	8
30	030499	WASHER,SPRING LOCK,Ø 7/16"	40
31	030592	WASHER,SPRING LOCK,Ø 1/2"	8
32	030617	NUT, HEX, 5/16-18-UNC	1
33	030420	NUT, HEX, 5/8-11-UNC	3
34	651420	WASHER,FLAT,Ø 5/16", SAE NARROW, 11/16" O.D.	1
35	030557	WASHER,FLAT,USS,Ø 3/8"	8
36	035561	WASHER,FLAT,Ø 5/8"	12
37	322220		12
38	033151	BOLT,HEX,HEAD,1/2-13-UNC x 1 1/2"LG	8
39	021008		20
40	351707	FITTING,HYD,90°,MORB-10 X MJIC-12	2
41	333158	BRAKE LINE, REAR SUSPENSION, (3JD)	2
42		REMOVED	
43	375270	PLATE-TIE, SUPENSION	2
44	380849	STOVER L/NUT-5/8-11, GR C	4
45	333160	HOSE ASS'Y, 1.0" ID X 24.5" LG.	1
46	333162	HOSE ASS'Y, 1.0" ID X 35.3" LG.	1
47	333161	HOSE ASS'Y, 1.0" ID X 13.84" LG.	1
49	323421	PLATE-SPRING, WLDMT	2
50	313440	CABLE ASSY	2

CHAPTER 1



1) SEE ES 049 FOR BRAKE BLEEDING PROCEDURE.

NOTE:



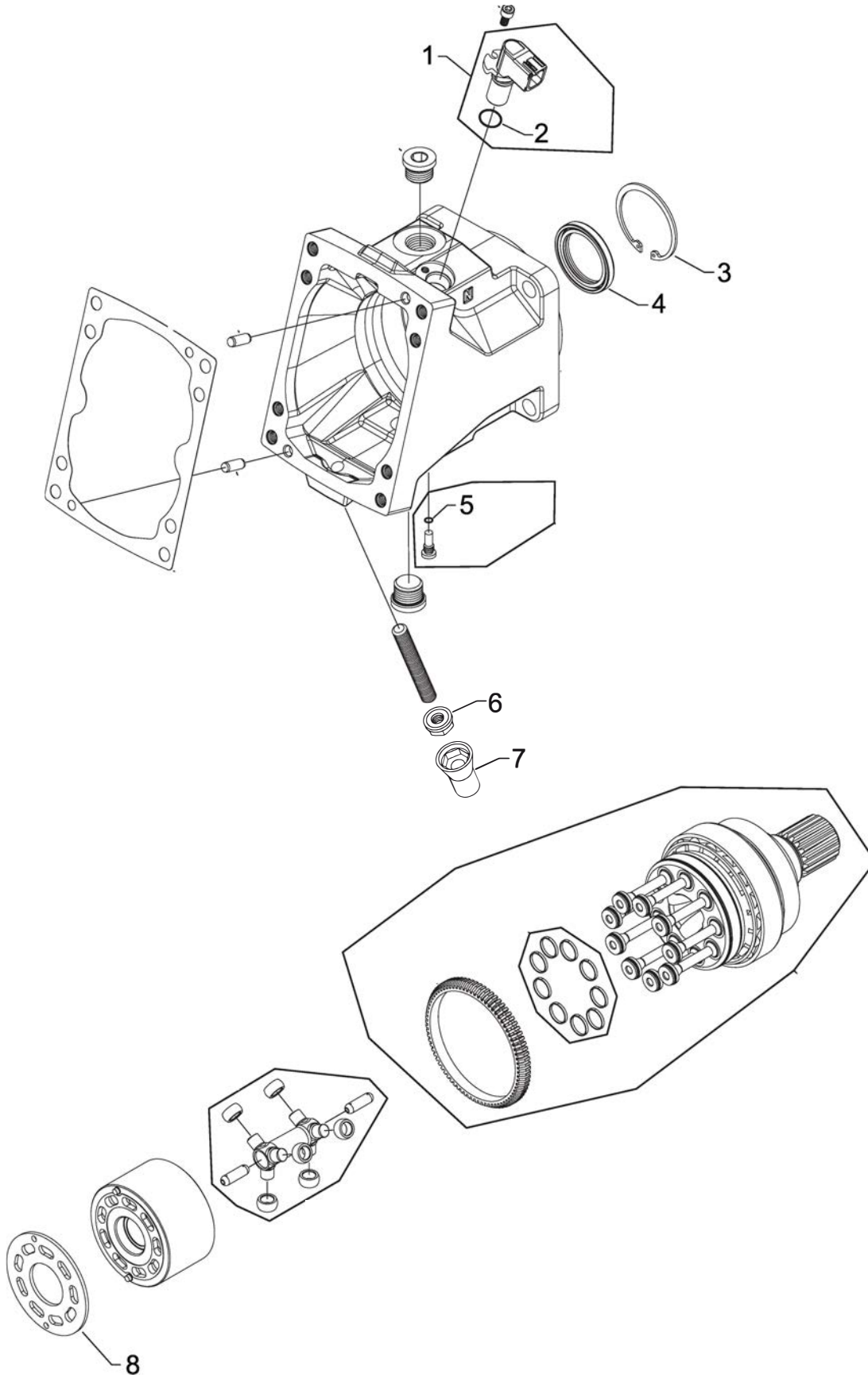


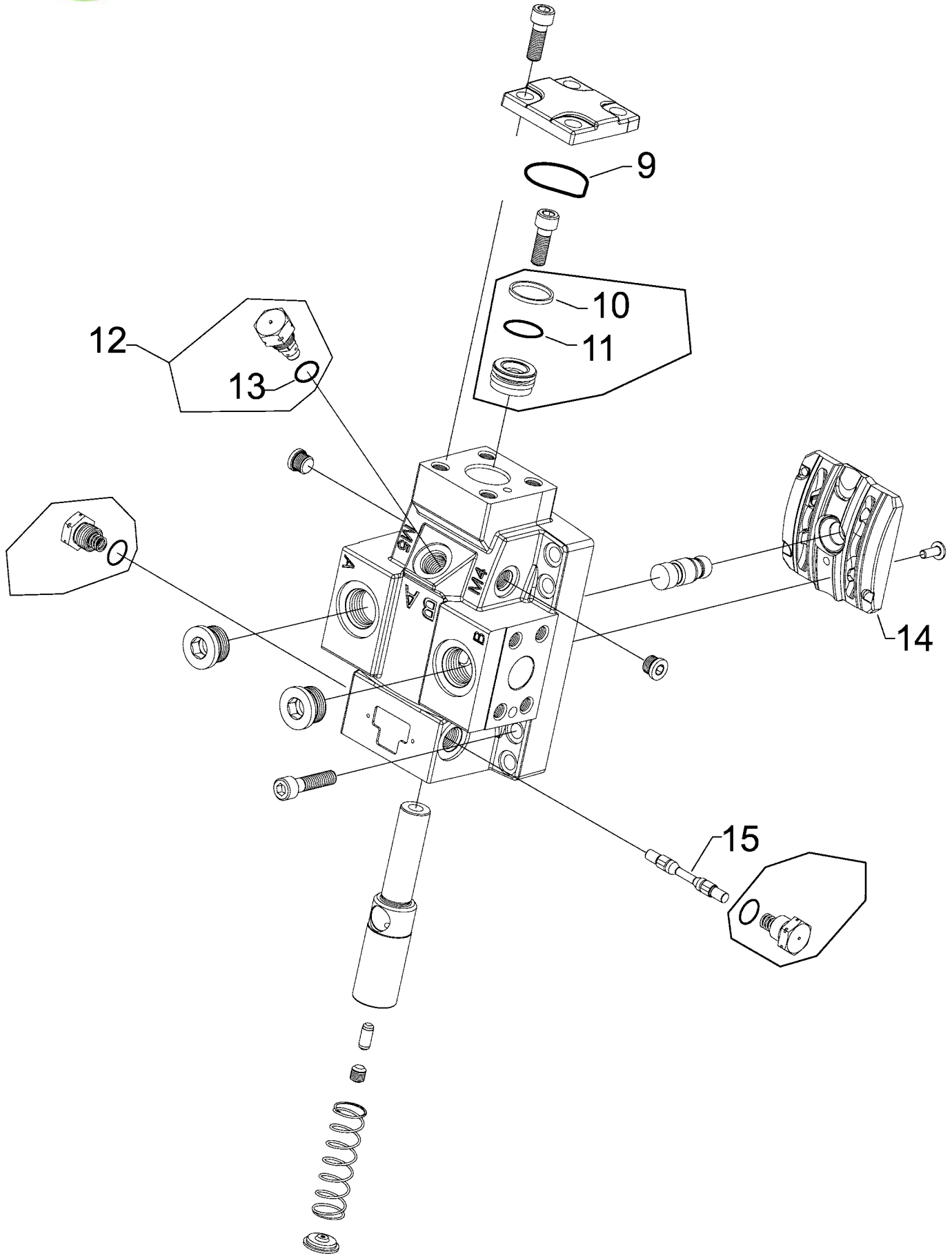
Brake Line Installation

CHAPTER 1

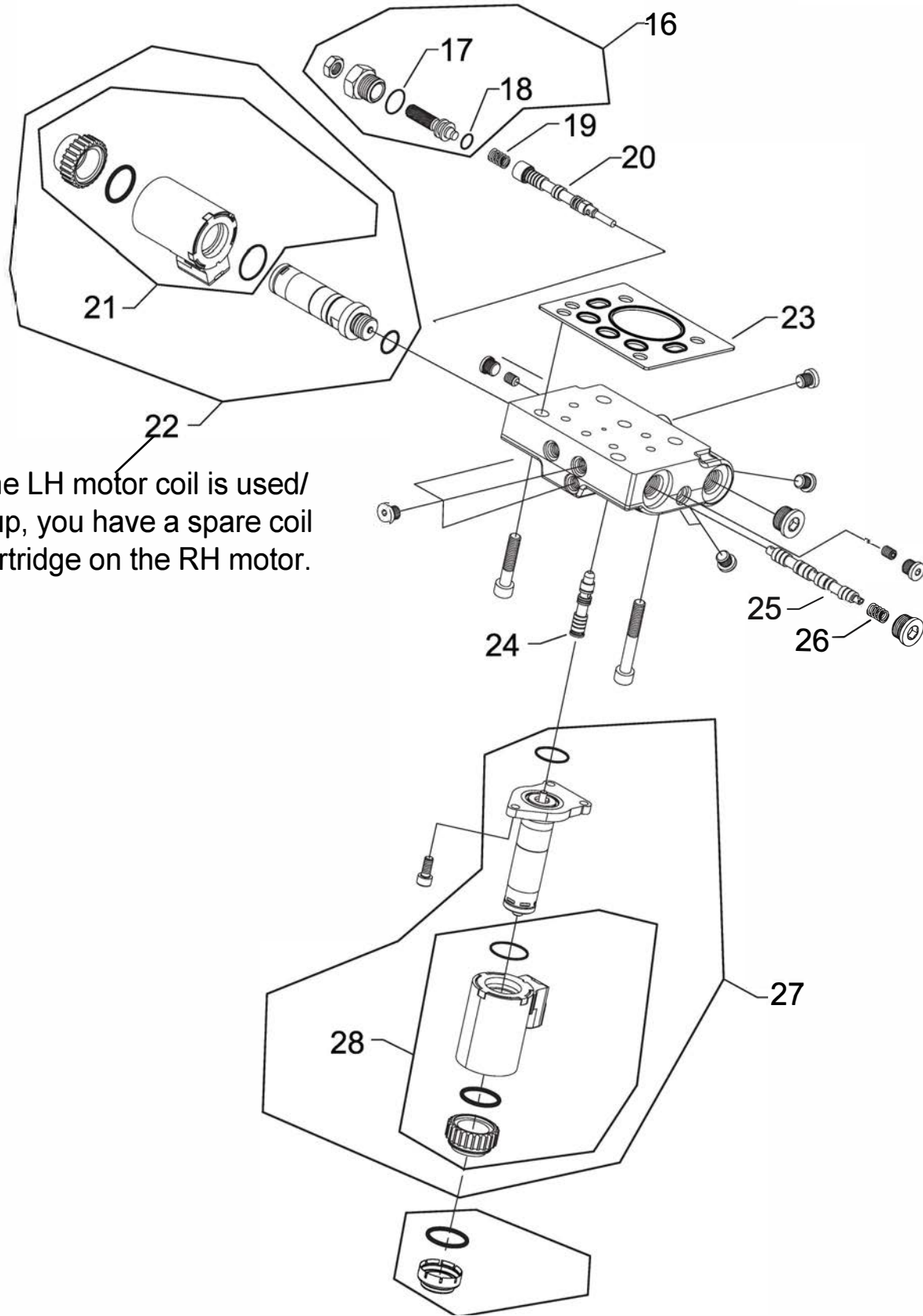
Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	323405	Brake Line Instl (Rear Susp)	C Ref	11	216037	Grommet An931-c12-17	1
1	605220	Elbow- Mp Inv Fl 90-4	2	12	312372	Union-inverted 1/4 Tube	3
2	890426	Brake Fluid 1.00000	1	13	325219	Brake Line, Master Cylinder	1
3	203887	Hose Assy- Hyd Brke	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				







WHEEL END DRIVE MOTOR

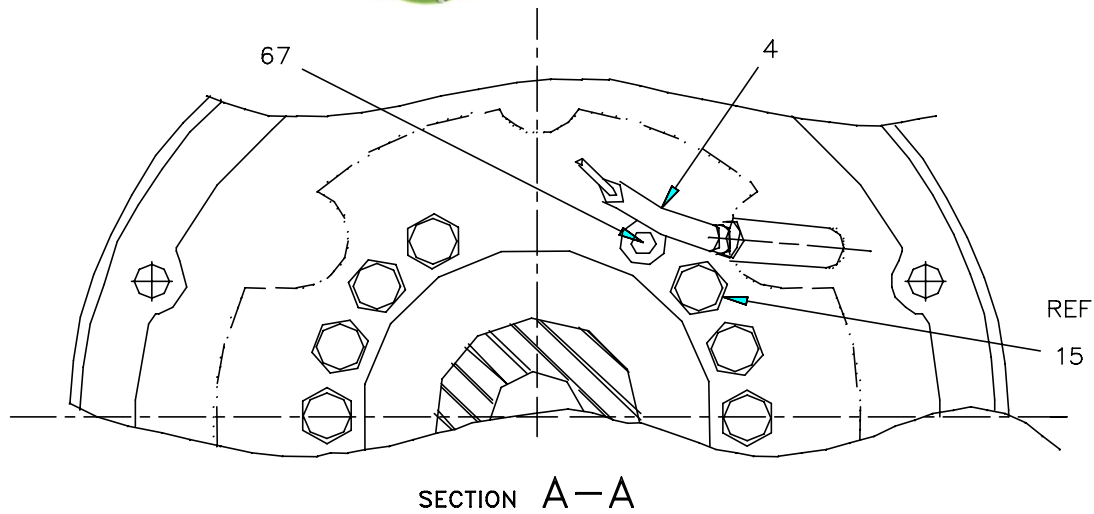


Only the LH motor coil is used/
wired up, you have a spare coil
and cartridge on the RH motor.



WHEEL END DRIVE MOTOR

ITEM #	PART #	DESCRIPTION	QTY
	332896	WHEEL END DRIVE MOTOR	REV A
1	333934	SPEED SENSOR	1
2	333936	ASSEMBLY O-RING	1
3	333937	RETAINING RING	1
4	333938	LIP SEAL	1
5	382023	O-RING	1
6	333940	SEAL NUT, M12	1
7	380912	PLASTIC CAP, GREEN BEARING	1
8	333942	PLATE	1
9	333943	O-RING	1
10	395395	SEAL RING	1
11	380982	O-RING	1
12	333946	LOOP FLUSHING VALVE, 5L/MIN	1
13	333947	O-RING	1
14	333948	VALVE SEGMENT ASSY	1
15	333949	LOOP FLUSHING SPOOL	1
16	333950	ADJUSTER	1
17	382031	O-RING	1
18	333952	O-RING	1
19	333953	SPRING	1
20	333954	SPOOL	1
21	333955	COIL KIT	1
22	333956	SOLENOID	1
23	333957	CONTROL SEAL	1
24	333958	SPOOL	1
25	333959	SPOOL	1
26	333960	SPRING	1
27	337671	PRE-SET, SOLENOID, 12 VOLT	1
28	333962	COIL KIT, 12 VOLT	1



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

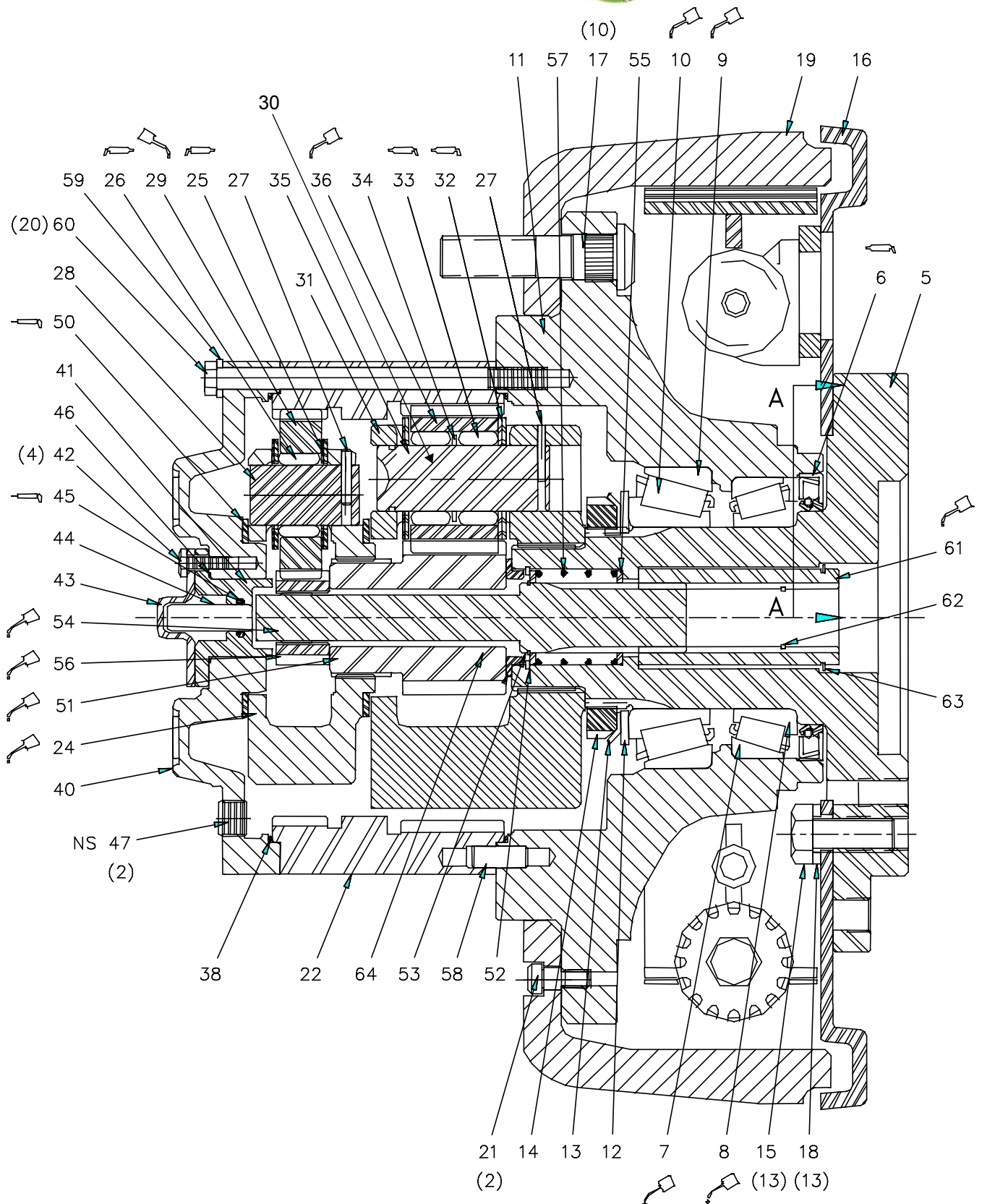
ADJUSTMENT BOLT 85 FT-LBS TORQUE

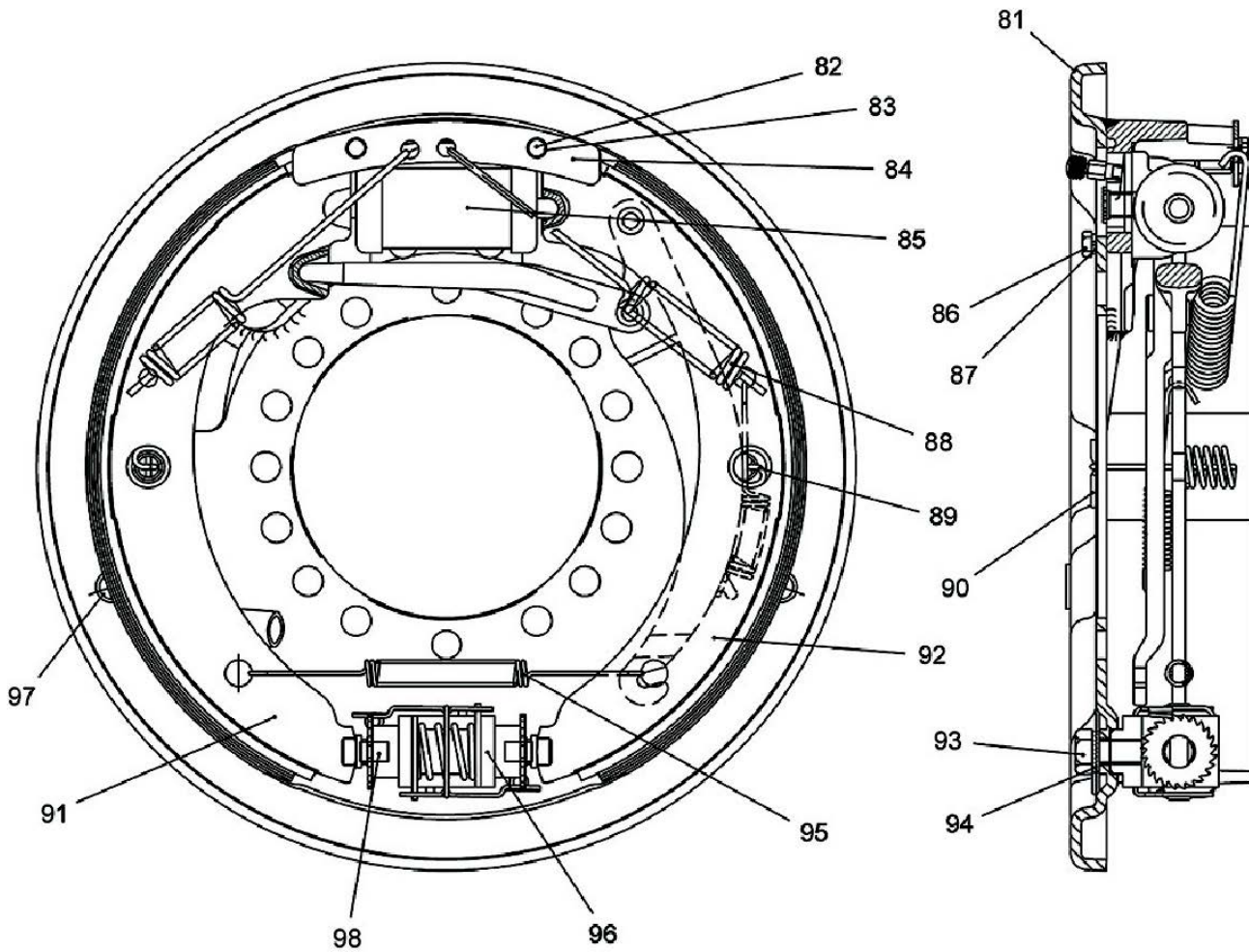
DRUM ROLLING TORQUE 70-100 IN-LBS

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. 





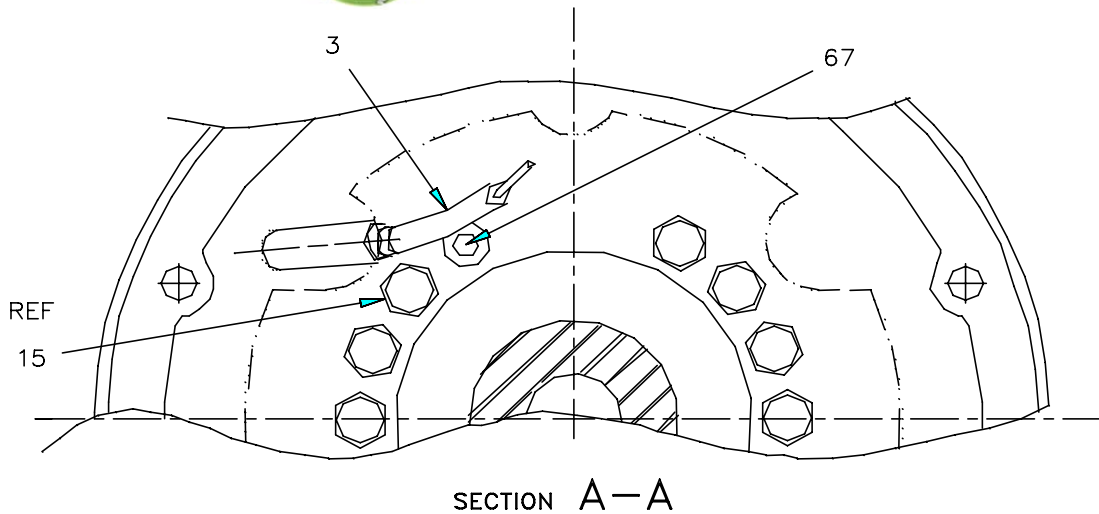


Torque Hub Assembly LH

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				





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

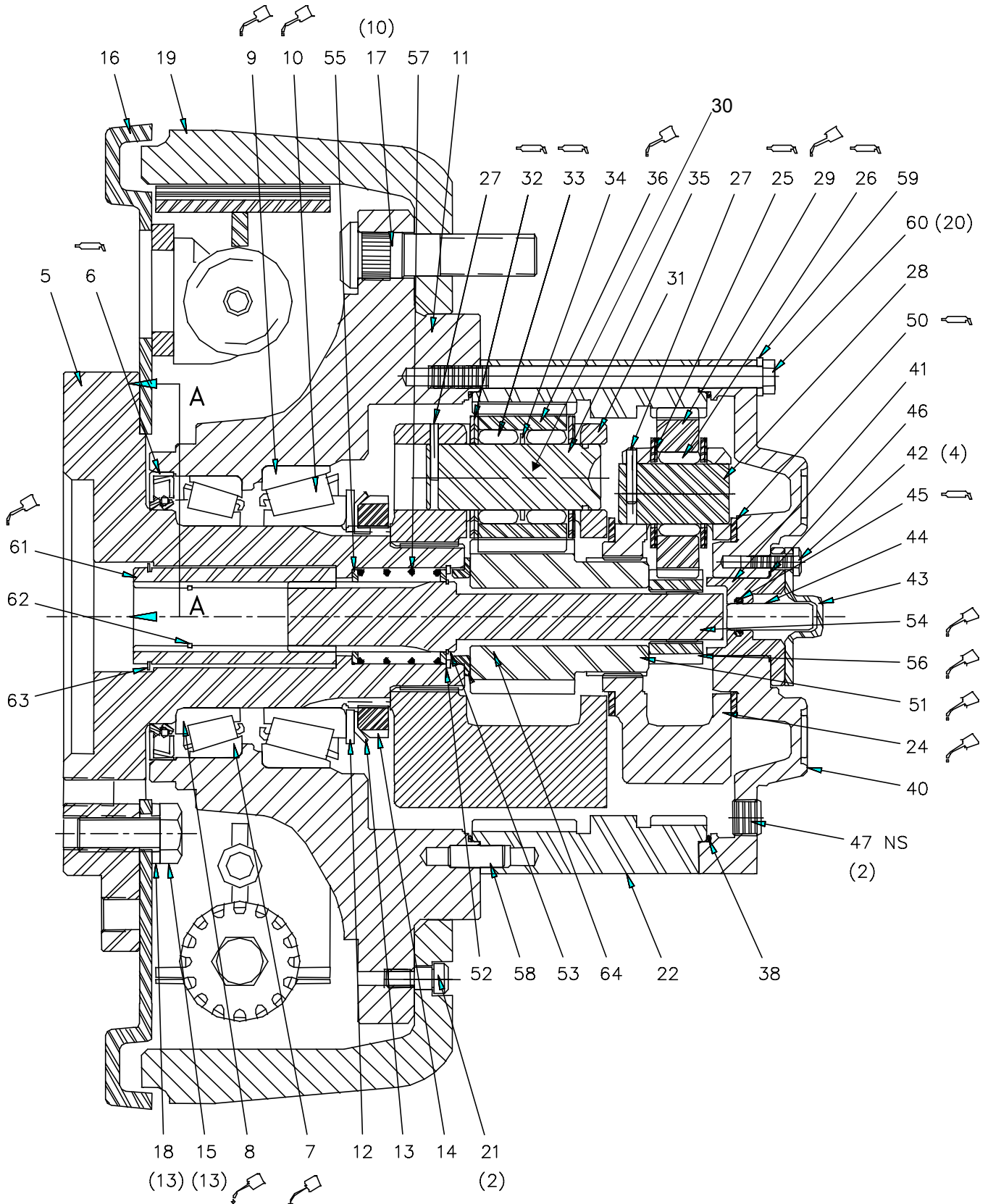
4. APPLY A LIGHT COAT OF GREASE TO PARTS. 

5. APPLY A LIGHT FILM OF OIL TO PARTS. 

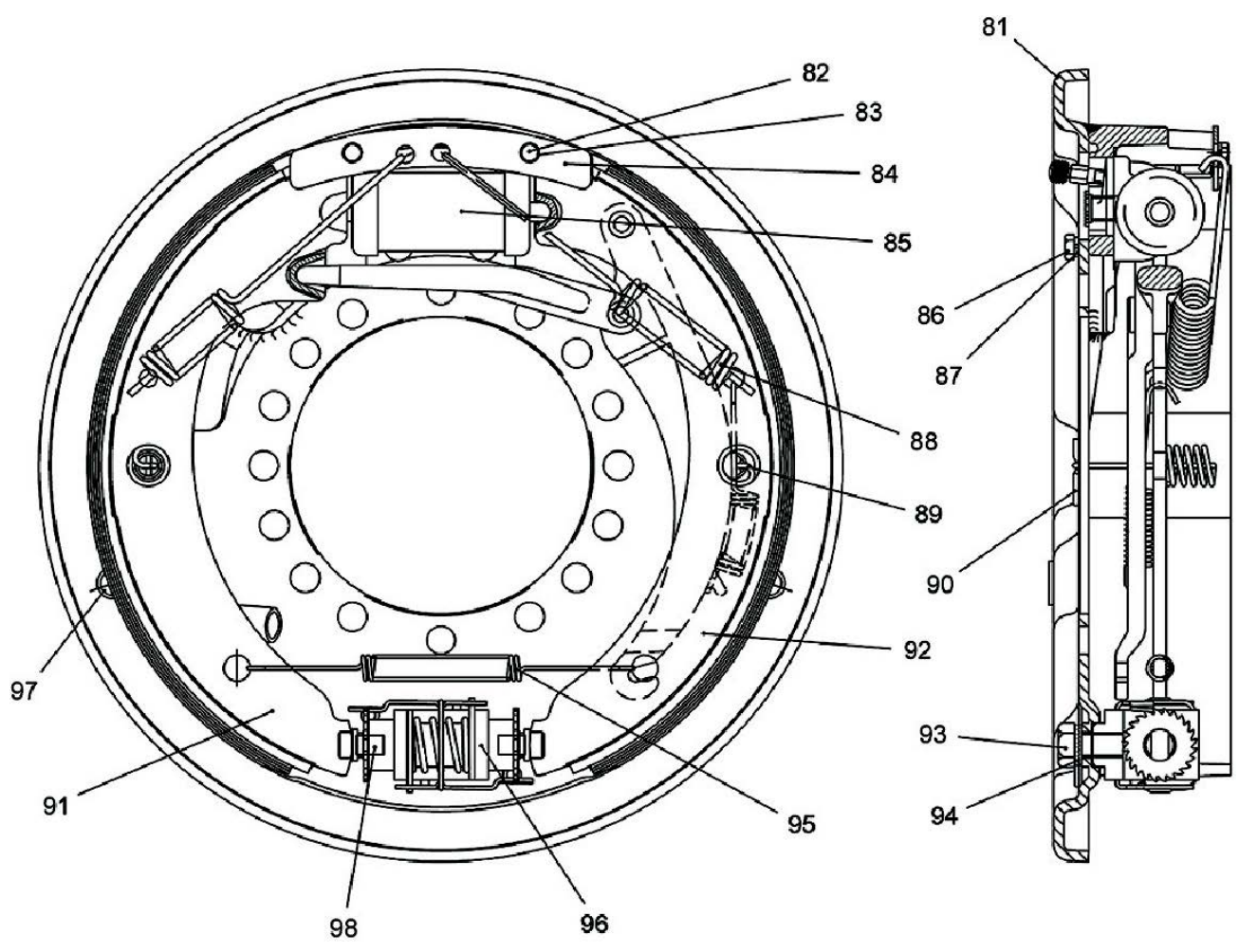
6. APPLY A LIGHT COAT OF "NEVER-SIEZE" TO PARTS.



CHAPTER 1



Torque Hub Assembly RH





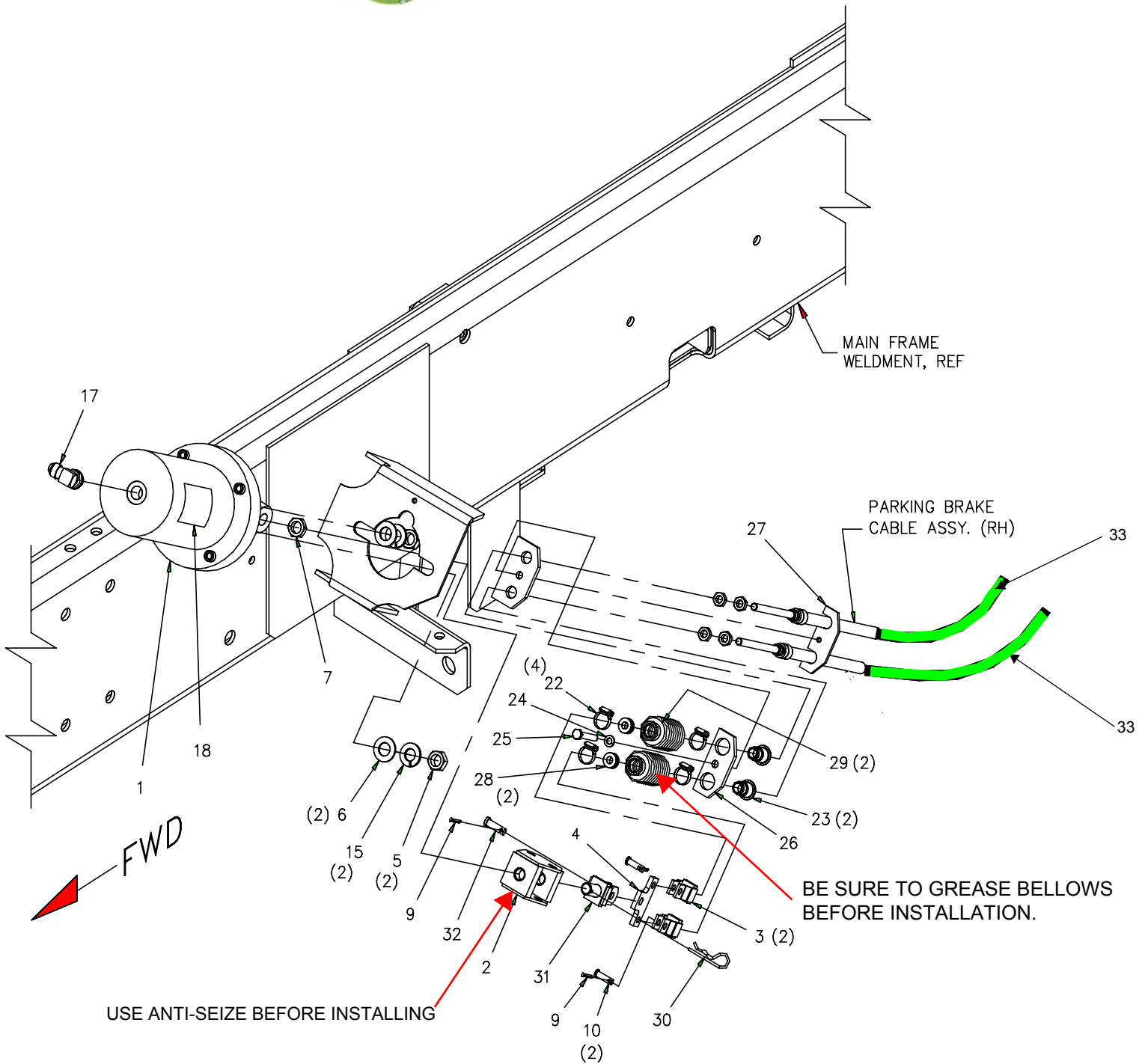
Torque Hub Assembly RH

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				
				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	305643	Brake – Rh	0
16	305643	Brake – Rh	0	66	890611	Gear Oil Sae 90 1.00000	0
17	305644	Stud	0	67	305889	Bolt Round Head, 5/8	0
18	305645	Washer–Lock	0				
19	305646	Brake Drum	0	80	381979	Complete Brake Assembly	0
				81	380432	Backing Plate	0
20	305647	Pin–Dowel	0	82	382359	Bolt – Thread Cutting, Fastener	0
21	305648	Bolt – Shoulder	0	83	381673	Washer – Lock, M6	0
22	305649	Gear Ring	0	84	380434	Retainer Plate	0
23	305650	Carriage Assy. 1st Stage	0	85	306682	Wheel Cylinder	0
24	305651	Carrier Input	0	86	382360	Bolt – Hx Hd, Fastener	0
25	305652	Washer Thrust	0	87	381674	Washer – Lock, M8	0
26	305653	Roller – Needle	0				
27	305654	Pin – Dowel	0	88	306684	Spring, Return	0
				89	306686	Spring, Hold Down	0
28	305655	Shaft–Planet	0	90	380436	Spring Buckle	0
29	305656	Gear Planet	0	91	306679	Brake Shoe, RH or LH	0
30	305657	Carrier Assy, 2nd Stage	0	92	306680	Brake Shoe, Lh	0
31	305658	Carrier–Output	0	93	381671	Bolt – Hx Hd, Fastener	0
32	305659	Washer–Thrust	0	94	381892	Washer – B15, D125	0
33	305660	Roller – Needle	0	95	381643	Spring Return	0
34	305661	Spacer	0				
35	305662	Shaft Planet	0	96	382361	Adjuster, Automatic	0
				97	381676	Plug, M20 X 1.5	0
36	305663	Gear, Planet	0	98	380433	Plug, Square, 17 X 15 X 11	0
37	305664	Use 305654 Pin–Groove	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				



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	33	313440	CABLE ASSY, PARKING BRAKE	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				



CHAPTER

2

Group -- Body/Hopper/Frame

2

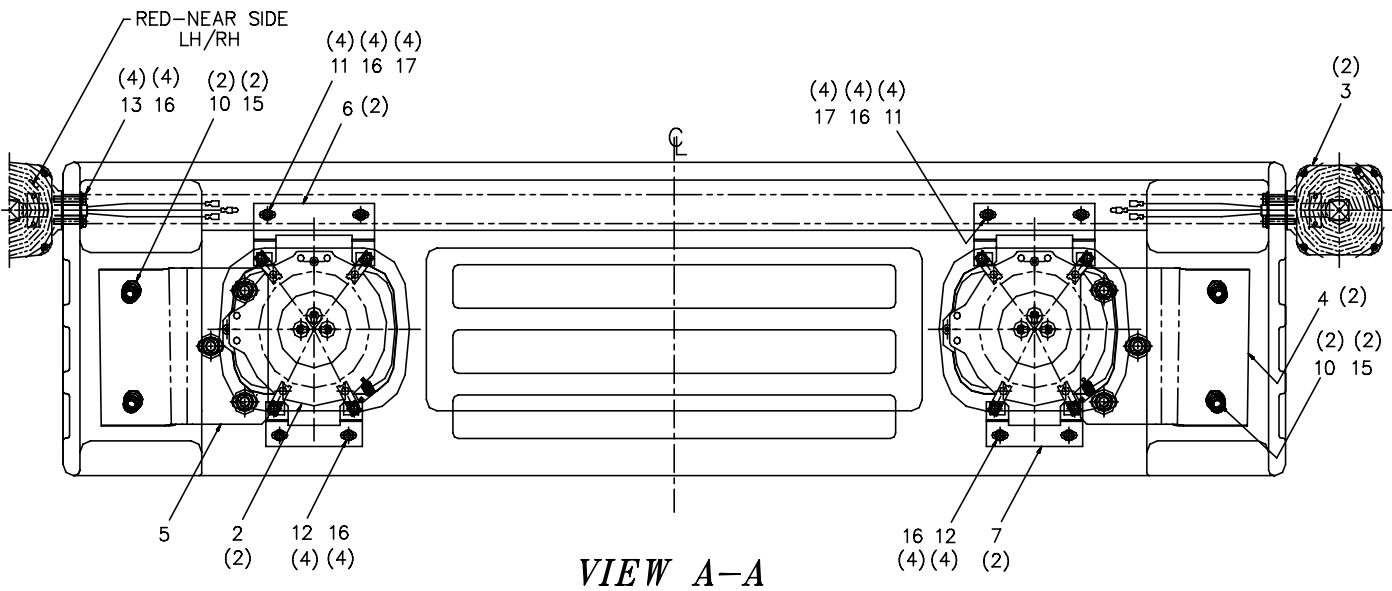
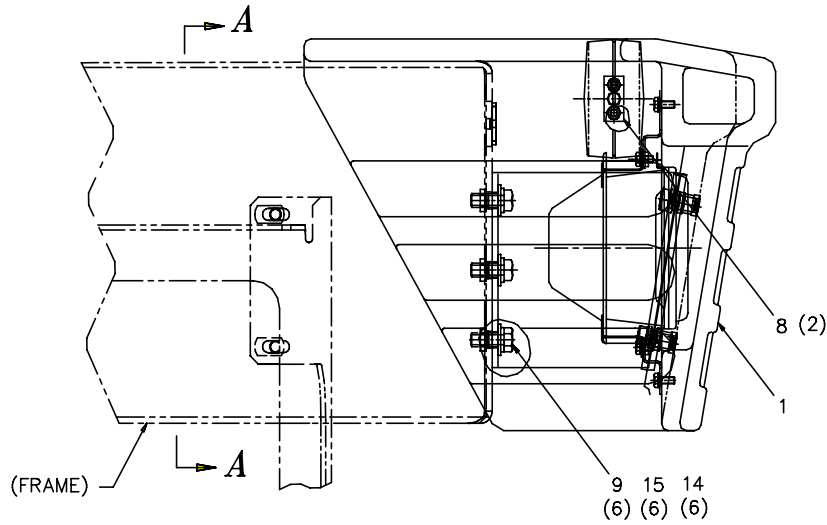
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Rear Fender Installation	2.6
Center Body Panel Installation	2.10
Center Body Panel Assy, RH	2.13
Center Body Panel Assy, LH	2.14
Rear Grille Assy.....	2.17
Rear Grille installation	2.18
Hopper Installation - High Dump	2.21
Hopper Assembly - High Dump	2.24
Frame Assembly	2.28



2

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

NOTES:



Bumper Installation

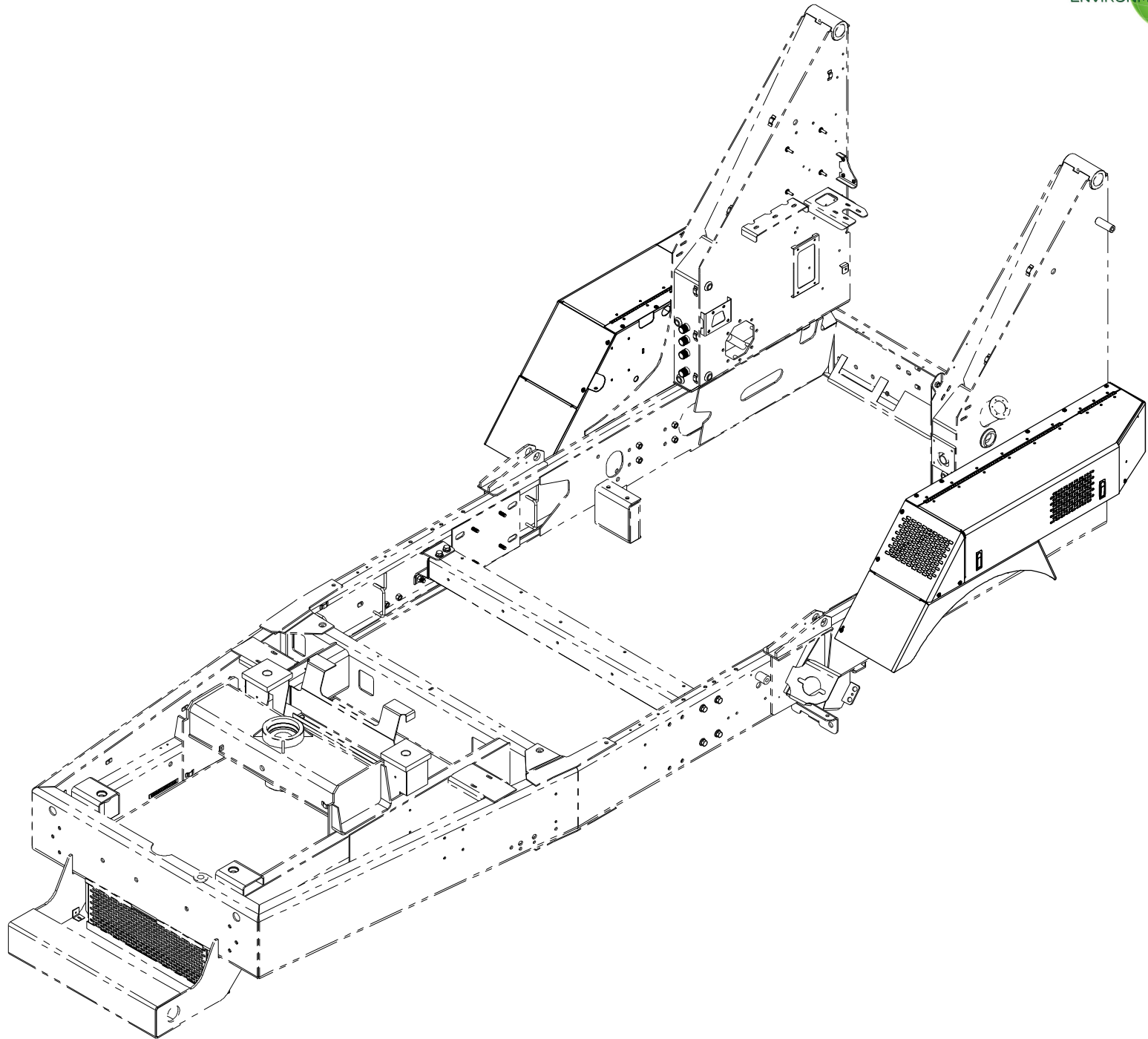
CHAPTER 2

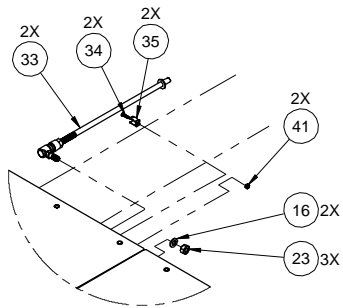
Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	317855	Bumper Installation	D Ref	11	026205	Scr-Hx Hd,Pltd,1/4-20x5/8	8
1	324776	Bumper- Polyethylene (Black)	1	12	031428	Scr-Hx Hd,Pltd,1/4-20x1/2 Gr8	8
2	309909	Headlamp Assy. - Halogen	A 2	13	461903	Scr-Hx Hd Cap,1/4-20x1-3/8	4
3	317834	Lamp 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				



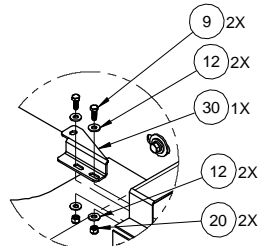


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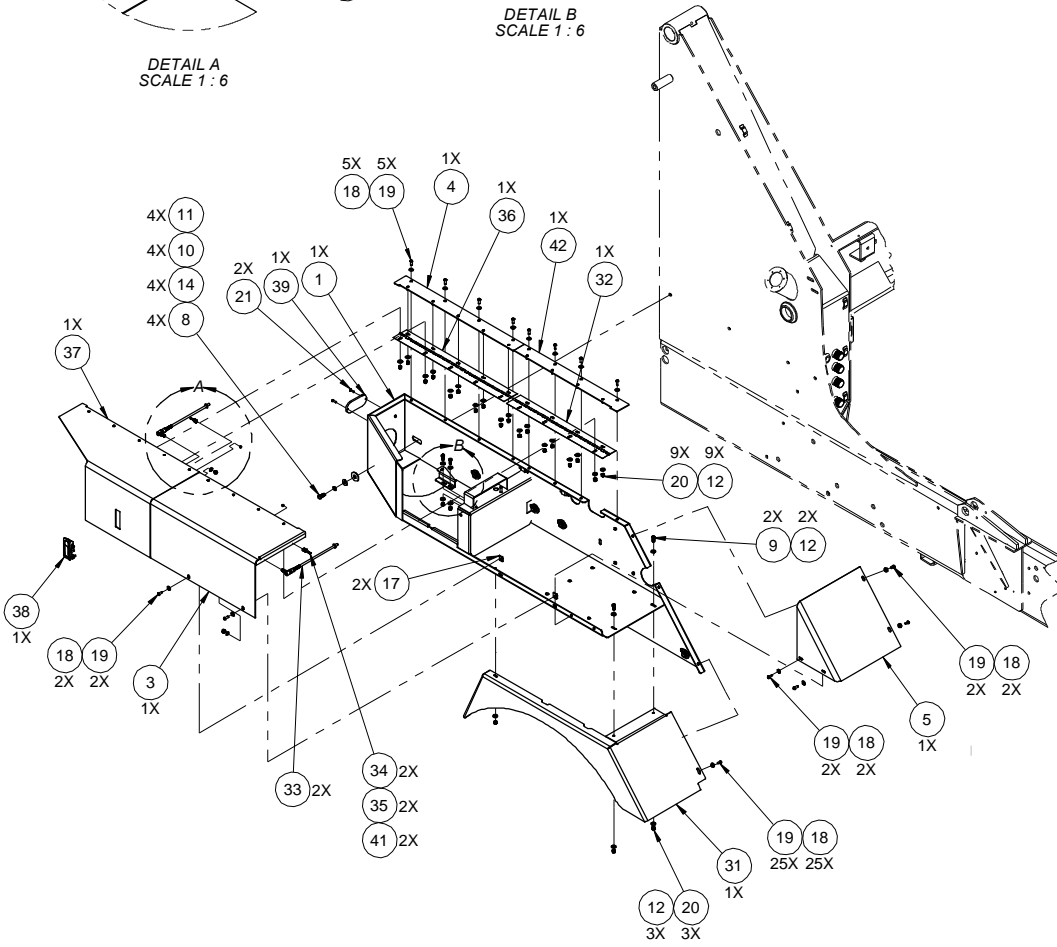




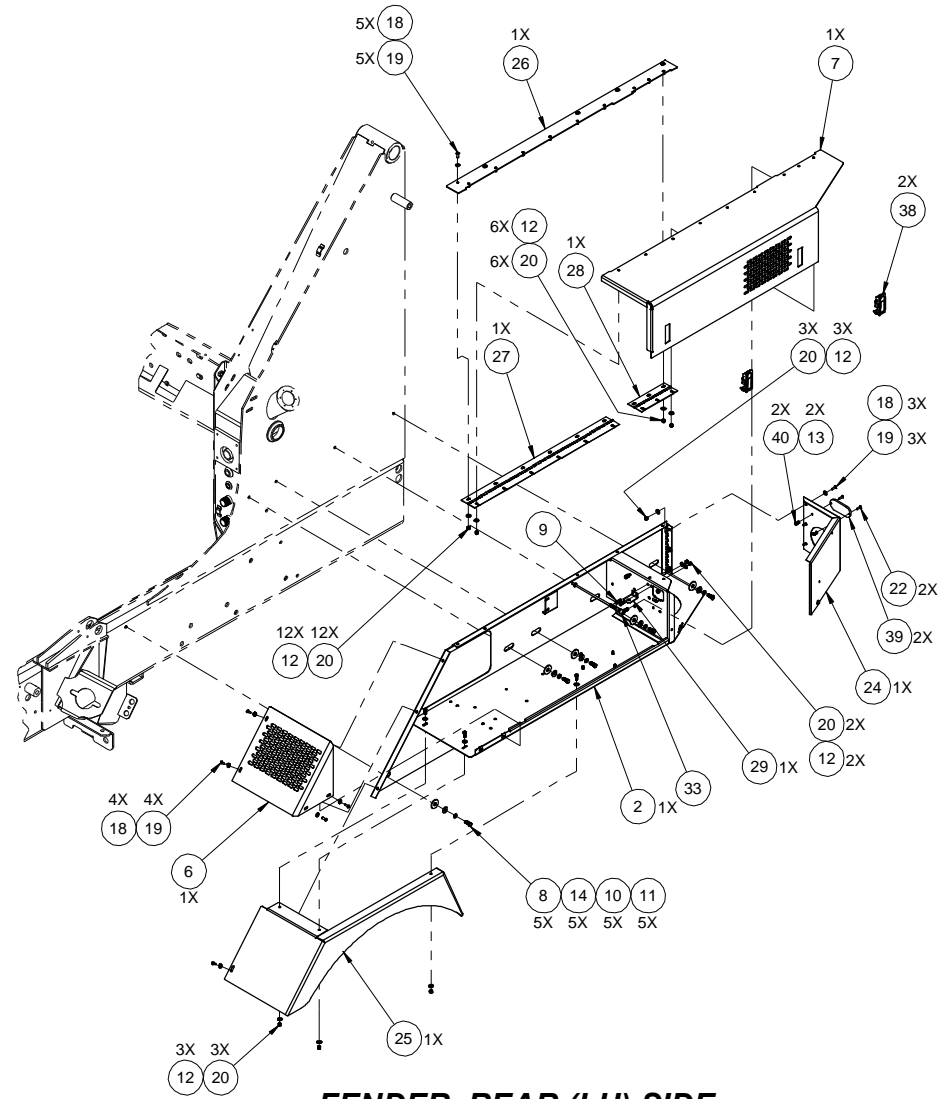
DETAIL A
SCALE 1 : 6



DETAIL B
SCALE 1 : 6



FENDER REAR (RH) SIDE

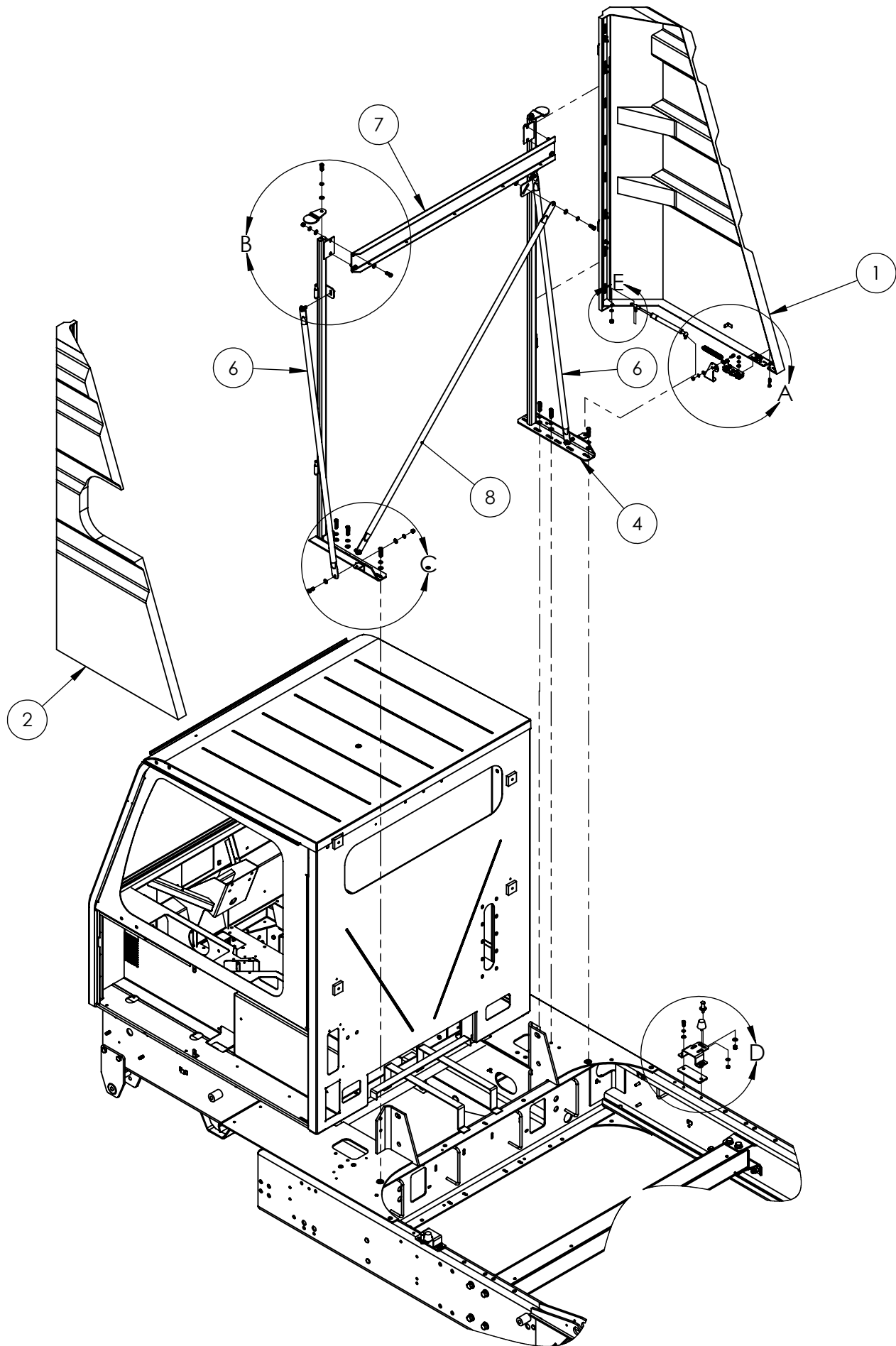


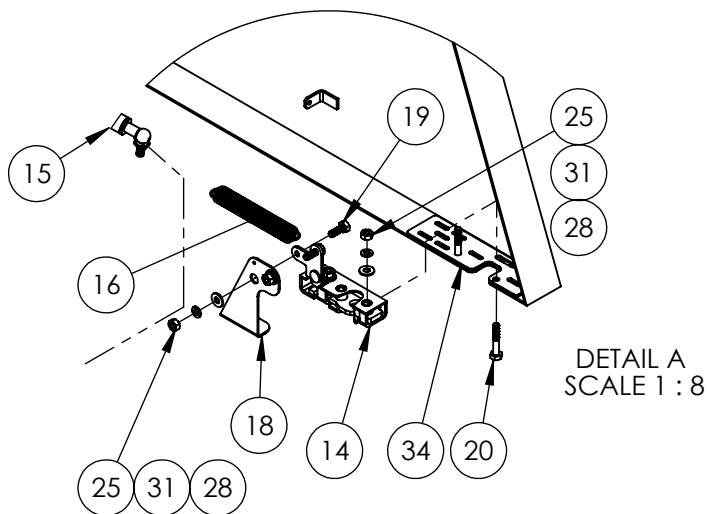
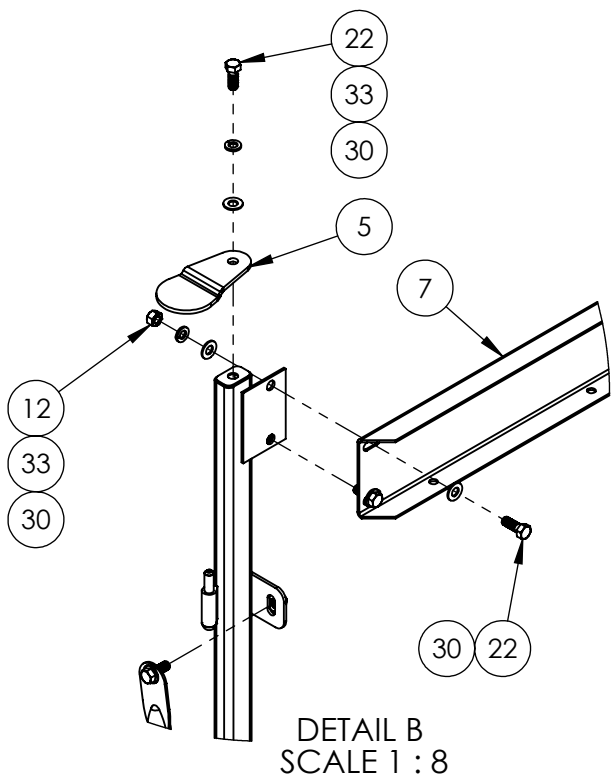
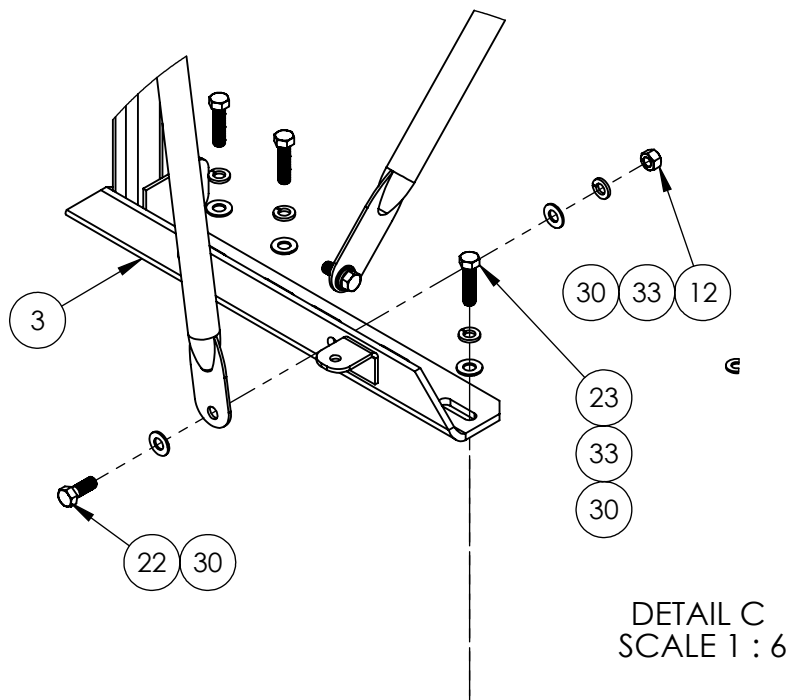
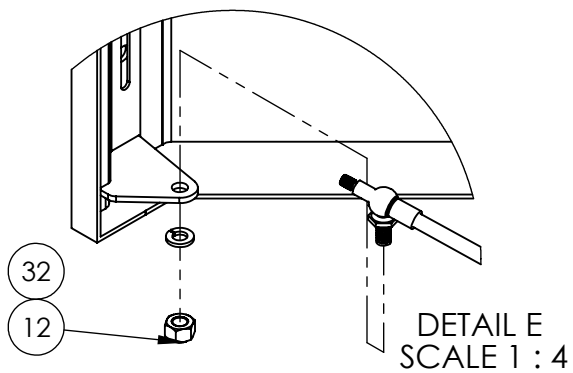
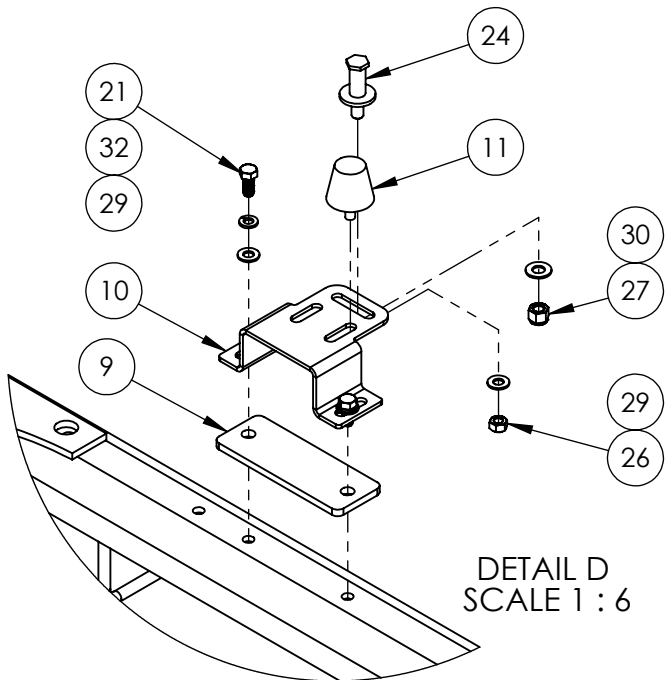
FENDER REAR (LH) SIDE

REAR FEDNER INSTALLATION

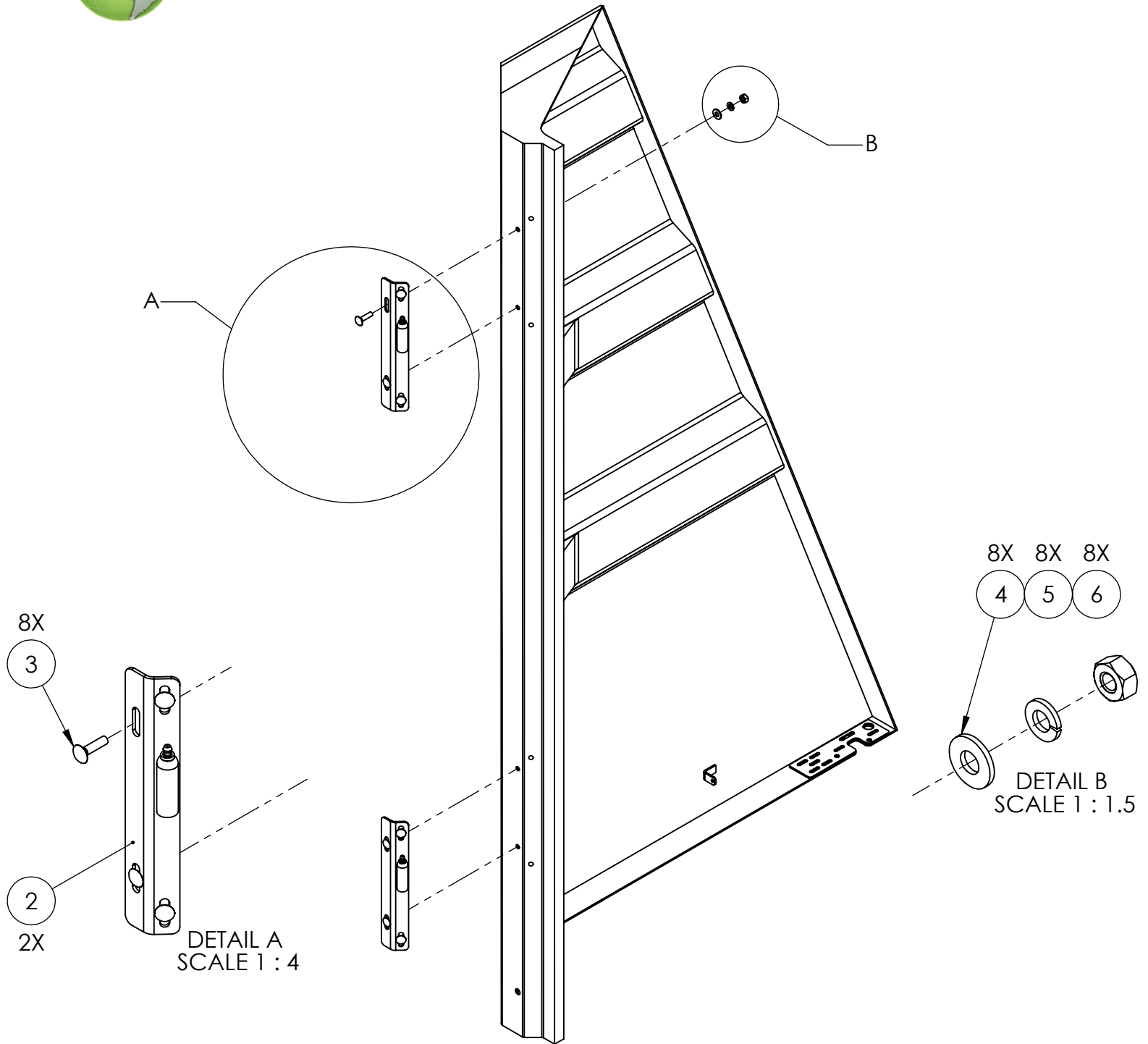


ITEM NO.	PART NUMBER	DESCRIPTION	QTY
REF	336376	REAR FEDNER INSTALLATION	REV 1
1	335812	FENDER BATTERY (RH) SIDE, WLDMT	1
2	323584	FENDER W/MANIFOLDS (LH) SIDE WELDMENT	1
3	336111	BATTERY COVER, WLDMT, (R3AIR)	1
4	336121	HINGE MOUNTING STRIP REAR, WLDMT	1
5	333664	FENDER FRONT PANEL, RH	1
6	333665	FENDER FRONT PANEL, LH	1
7	333995	FENDER MANIFOLD COVER L/H-ASSY	1
8	39809	BOLT,HEX,HEAD,3/8-16-UNC x 7/8"LG	10
9	33145	BOLT,HEX,HEAD,Ø 1/4-20-UNC x 3/4"LG	9
10	30557	WASHER,FLAT,USS,Ø 3/8"	10
11	30595	WASHER,FLAT,Ø 1/2",USS,(1 3/8" O.D.)	10
12	35605	WASHER,FLAT,Ø 1/4",USS,(3/4" O.D.)	56
13	36645	WASHER,FLAT,Ø #10,SAE NARROW	2
14	30605	WASHER,SPRING LOCK,Ø 3/8"	9
15	90065	WASHER,SPRING LOCK,Ø 3/8"	1
16	30373	WASHER,SPRING LOCK,Ø 5/16"	2
17	323844	NUT, PANEL 1/4"-20, "U" TAP FIT. 150"BLK	4
18	333343	WASHER FLAT, 1/4 BONDED-SEAL	29
19	331279	SCREW,BUTTON HEAD,SOCKET CAP,1/4-20-UNC X 3/4" LG.,(S.S.)	29
20	203375	NUT,HEX,NYLON LOCK,1/4-20-UNC	49
21	6810	SCREW,PAN HEAD,CROSS DRIVE,#10-24-UNF X 5/8" LG.	2
22	36859	SCREW,PAN HEAD,CROSS DRIVE,#10-24-UNC X 3/4" LG.	2
23	609400	NUT, HEX , 5/16-24-UNF	3
24	334106	FENDER DOOR LEFT REAR, WLDMT	1
25	331774	FENDER WHEEL SKIRT, LH	1
26	331397	HINGE MOUNTING STRIP ASSEMBLY, LH	1
27	331398	PIANO HINGE, 32"	1
28	331399	PIANO HINGE, 8"	1
29	332184	FENDER COVER PROP ROD PERCH	1
30	332233	FENDER COVER PROP ROD PERCH RH	1
31	336129	FENDER WHEEL SKIRT, (RH) SIDE	1
32	336113	HINGE FENDER COVER, (SHORT)	1
33	332203	PROP ROD FENDER COVER	3
34	91048	SCR, PLTD PH MS #4-40UNC X 1/2" LG.	3
35	332219	TOOL HOLDER, 3/16" -3/8" DIA	3
36	336119	HINGE FENDER COVER, (LONG)	1
37	336109	FENDER DOOR (RH) SIDE, WLDMT	1
38	327241	LATCH, FLUSH-ECU BOX	3
39	215499	REFLECTOR-RED	2
40	36860	NUT, KEPS #10-24 (ZP)	2
41	600808	NUT #4-40UNC LOCK NYLON INSERT PLT	3
42	336378	HINGE MNT STRIP FRONT, WLDMT	1

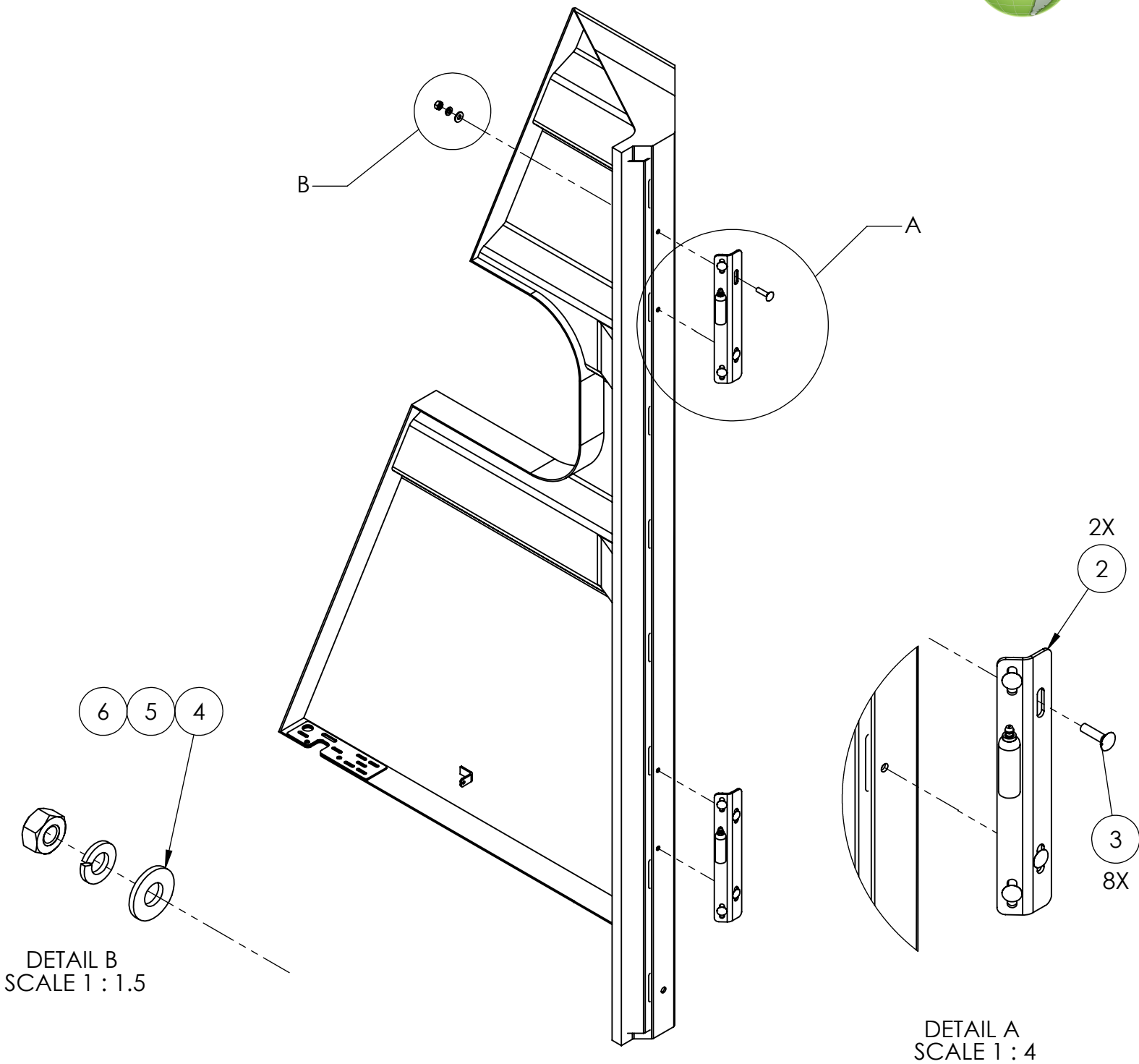




ITEM NO.	PART NO.	DESCRIPTION	QTY.
REF	330293	CENTER BODYPANEL, INSTALLATION	REV B
1	330254	ASSEMBLY, FIBERGLASS BODY PANEL, RH	1
2	330255	ASSEMBLY, FIBERGLASS BODY PANEL, LH	1
3	328054	PANEL SUPPORT WELDMENT, - LH	1
4	328053	PANEL SUPPORT WELDMENT, (RH)	1
5	319354	PLATE - STOP, CENTER BODY PANEL	2
6	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

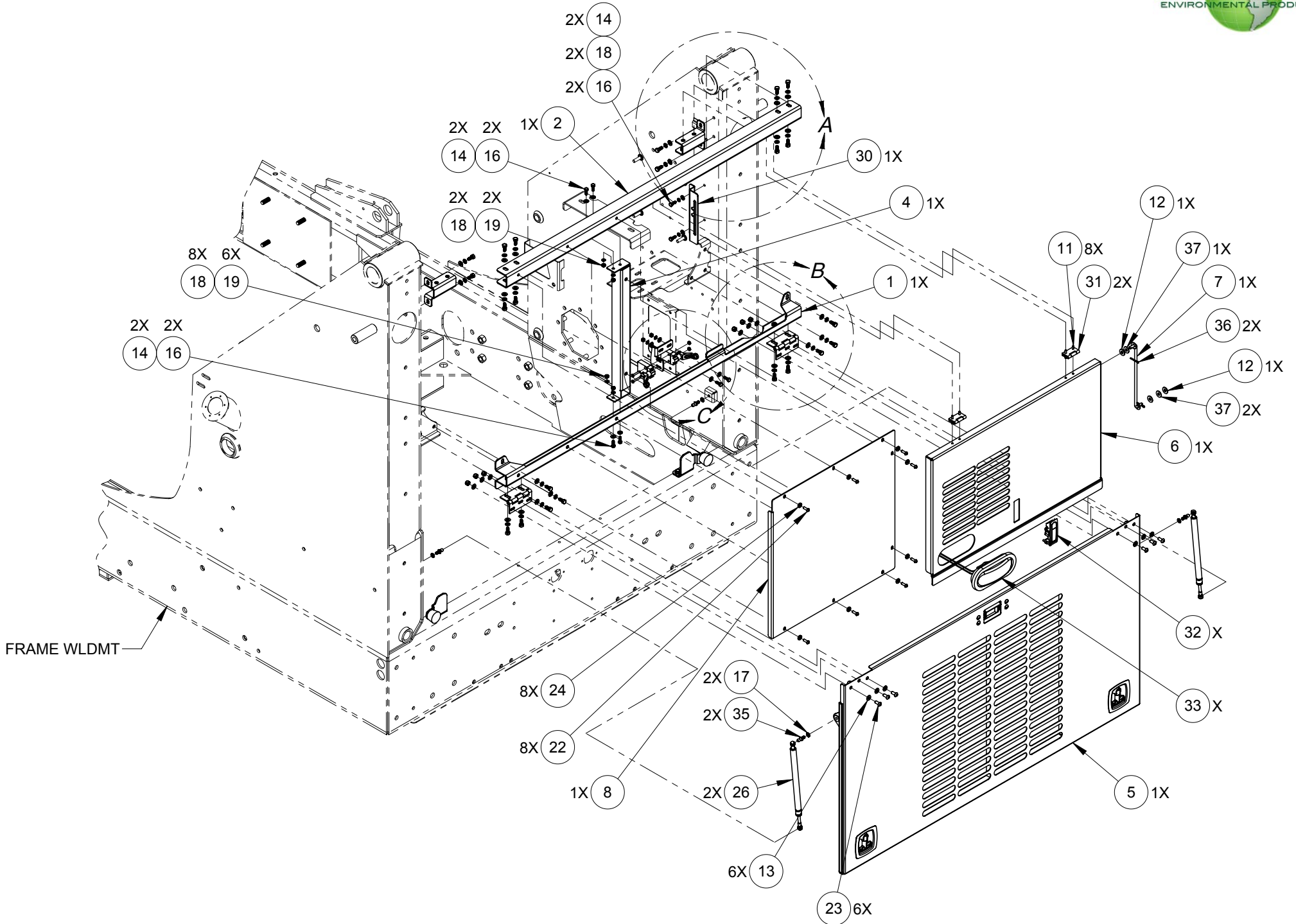


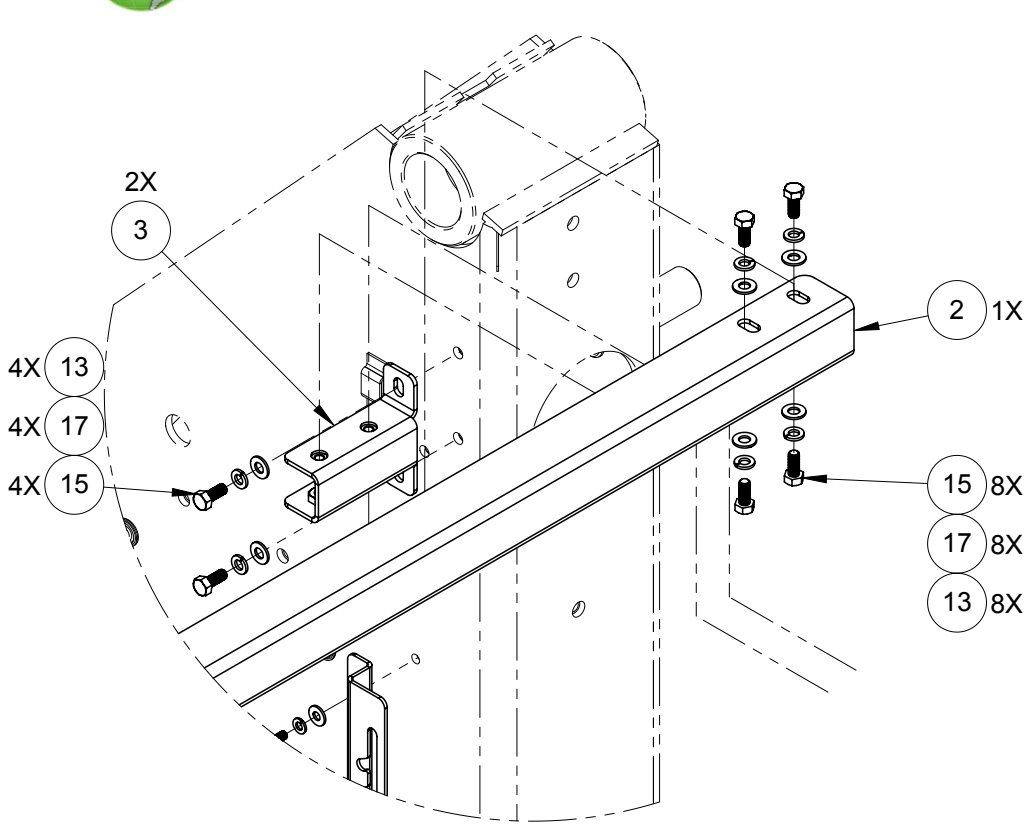
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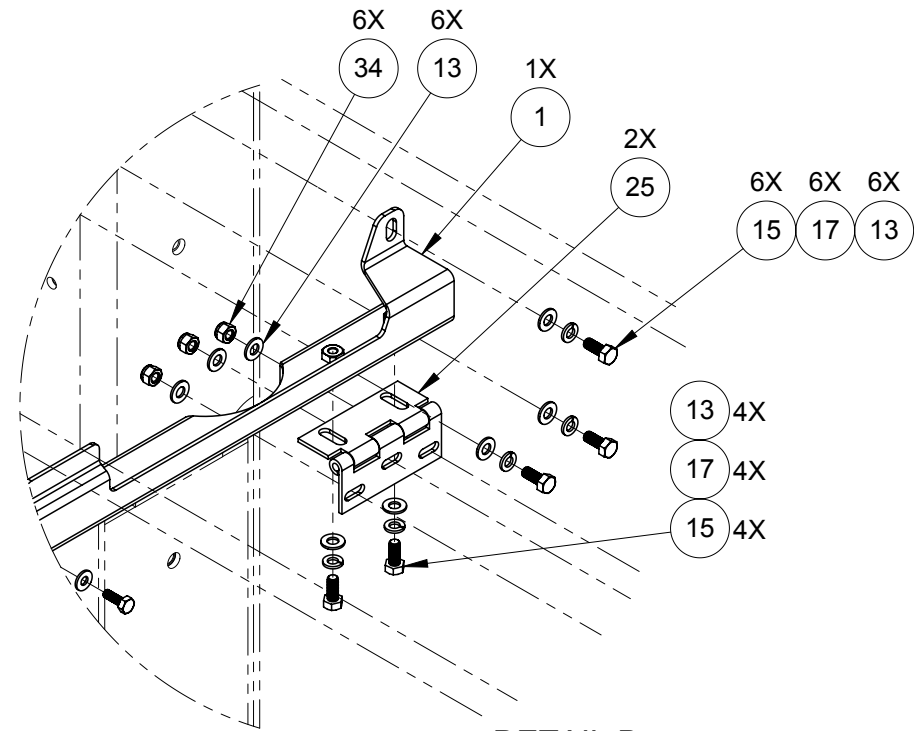
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REAR GRILLE INSTALLATION

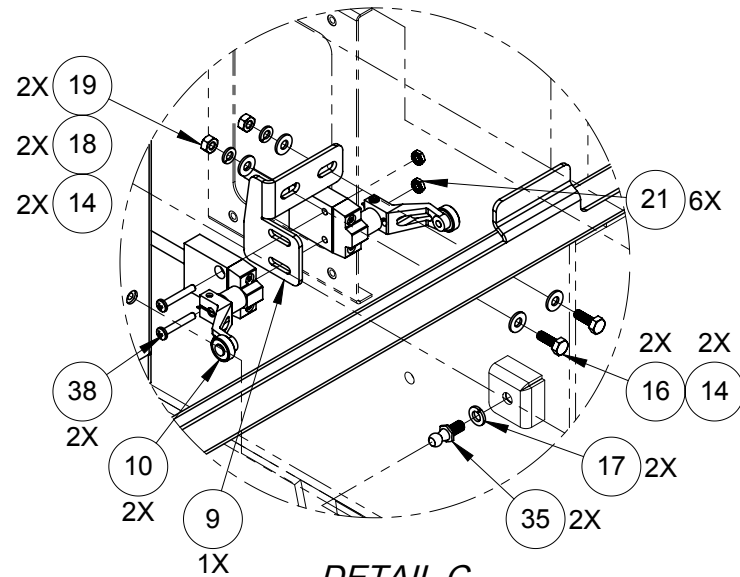




DETAIL A
SCALE 2 : 11



DETAIL B
SCALE 2 : 11

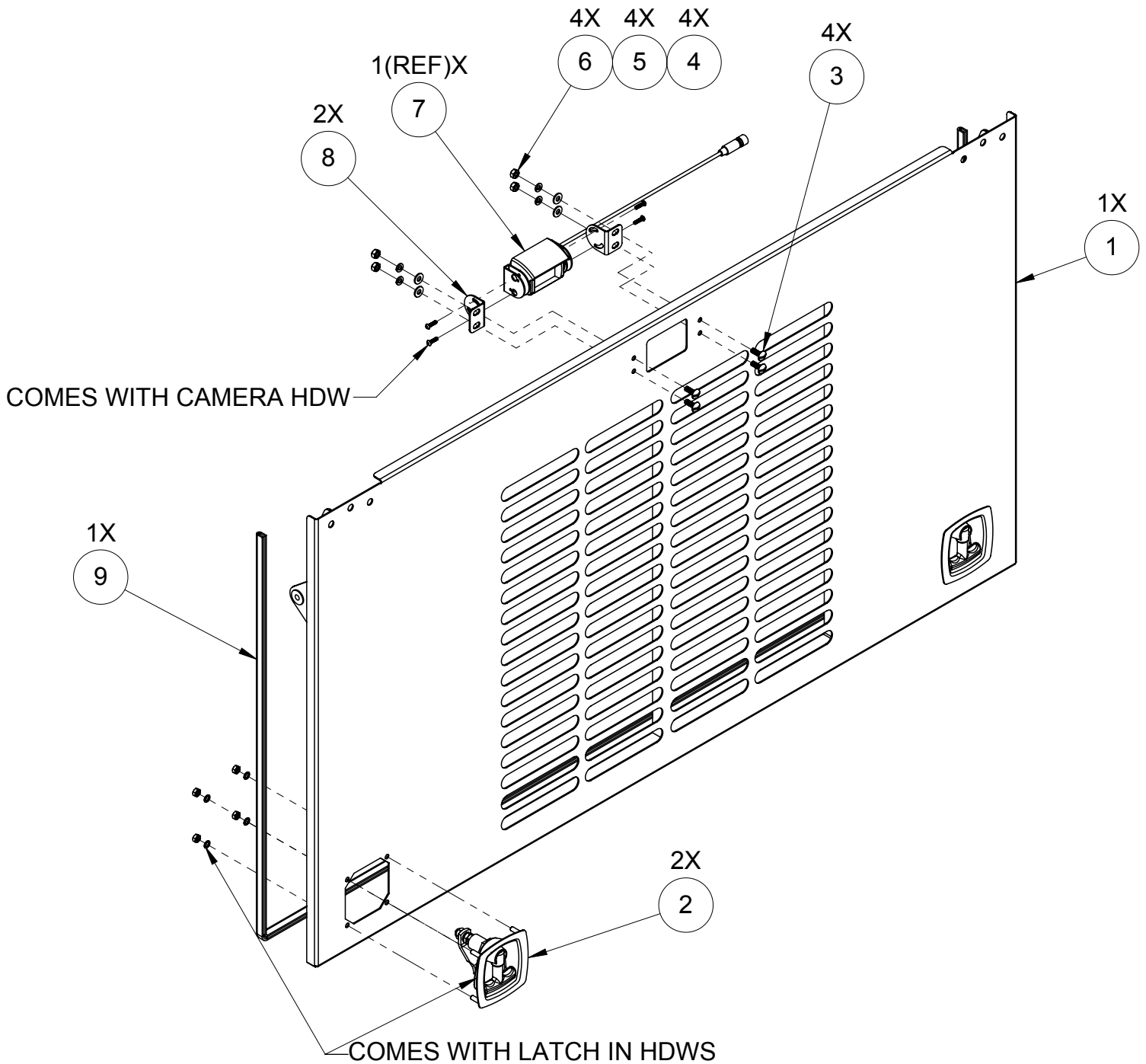


DETAIL C
SCALE 2 : 11

REAR GRILLE INSTALLATION



ITEM NO.	PART NUMBER	DESCRIPTION	QTY
REF	333000	REAR GRILLE INSTALLATION	REV 1
1	332250	CHANNEL-TOP DOOR, WLDMT	1
2	332306	CHANNEL-SUPPORT TOP DOOR, WLDMT	1
3	332270	CROSSBAR U-BRACKET, WLDMT	2
4	332255	BRACKET, VERTICAL DOOR, WLDMT	1
5	333001	REAR GRILLE ASS'Y, (R3AIR/M3I)	1
6	332257	GRILLE REAR, (RH) SIDE WLDMT	1
7	332260	ROD, HOOK-UP, WLDMT	1
8	332254	PLATE-BENT, GRILLE REAR	1
9	332246	ANGLE-TOP, SWITCH LEVEL	1
10	316139	SWITCH-SIDE ROTARY	2
11	332266	SCREW, SOCKET HEAD C'SUNK, #10-32 UNF x 1/2" LG. (S.S.)	8
12	030489	WASHER, FLAT, Ø 5/16", USS, WIDE, 7/8" O.D.	2
13	651420	WASHER, FLAT, Ø 5/16", SAE NARROW, 11/16" O.D.	38
14	609606	WASHER, FLAT, Ø 1/4", SAE NARROW	10
15	030483	BOLT, HEX, HEAD, 5/16-18-UNC x 3/4" LG	26
16	033145	BOLT, HEX, HEAD, Ø 1/4-20-UNC x 3/4" LG	8
17	030373	WASHER, SPRING LOCK, Ø 5/16"	30
18	030643	WASHER, SPRING LOCK, Ø 1/4"	8
19	030703	NUT, HEX, 1/4-20-UNC	6
20	006906	NUT, HEX, 5/16-24-UNF	2
21	036860	NUT, KEPS #10-24 (ZP)	6
22	331243	SCREW, BUTTON HEAD, SOCKET CAP, 1/4-20-UNC X 3/4" LG. (SS)	8
23	331242	SCREW, BUTTON HEAD, SOCKET CAP, 5/16-18-UNC X 3/4" LG. (SS)	6
24	333343	WASHER FLAT, 1/4 BONDED-SEAL	8
25	353109	HINGE 3" STAINLESS STEEL (N)	2
26	331241	GAS SPRING 8" STROKE 60LB	2
27	331393	ANGLE, LOCKING LATCH, (LH) SIDE	1
28	331392	ANGLE, LOCKING LATCH, (RH) SIDE	1
29	355343	BUMPER RUBBER	2
30	332269	PLATE-BENT, HOOK-UP DOOR	1
31	332262	HINGE SURFACE MOUNT, SST	2
32	327241	LATCH, FLUSH-ECU BOX	1
33	353230	BRAKE LIGHT ASSEMBLY, THIRD	1
34	023559	NUT, HEX, NYLON LOCK, 5/16-18-UNC	6
35	317657	BALL STUD, 5/16-18UNC	4
36	031495	COTTER PIN Ø1/8" X 1" LG	2
37	335314	NYLON PLASTIC WASHER, .344 ID X .875 OD	3
38	038198	SCREW, PAN HEAD, CROSS DRIVE, #10-32-UNF X 1" LG.	2

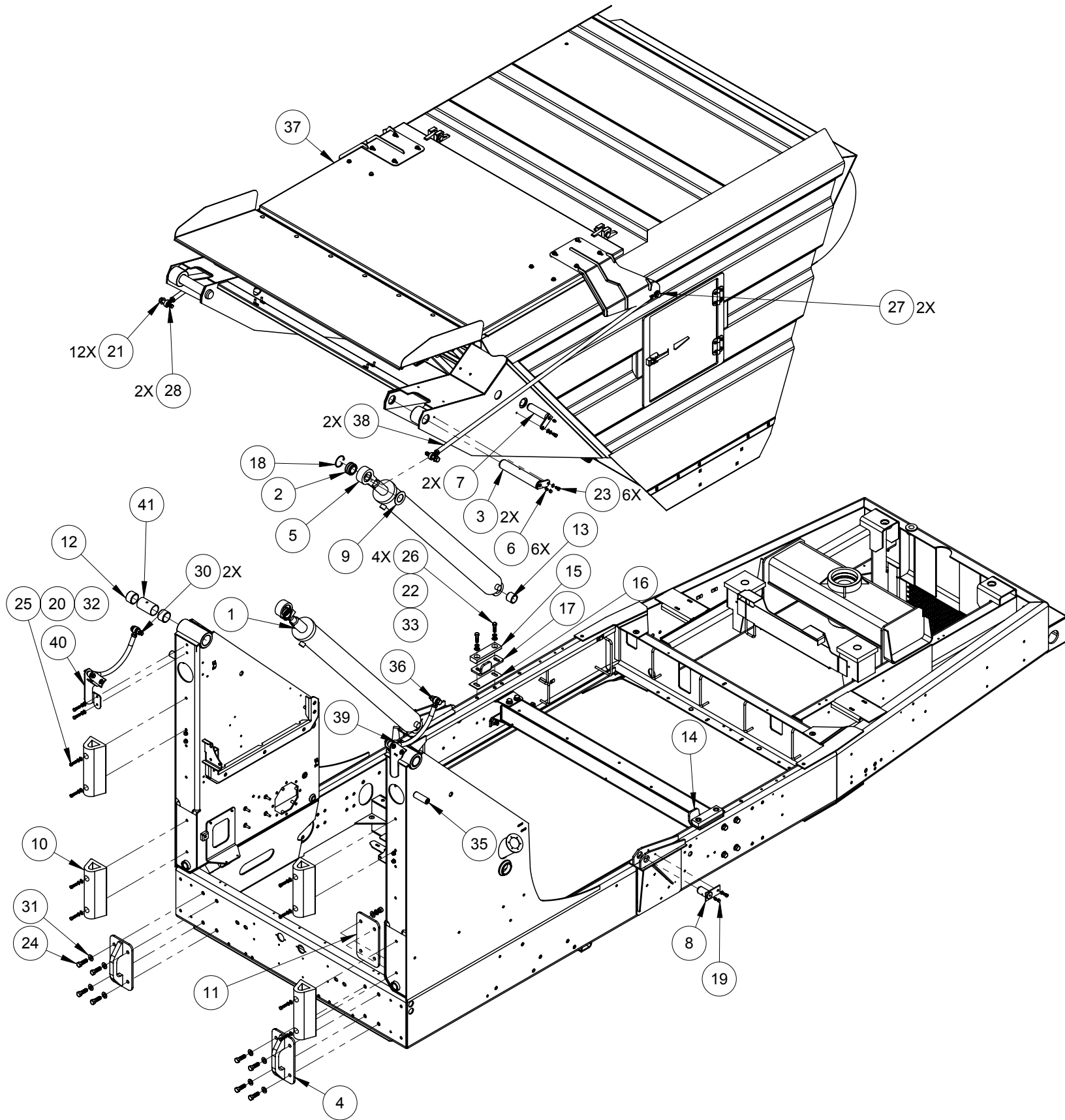


ITEM NO.	PART NUMBER	DESCRIPTION	QTY
REF	333001	REAR GRILLE ASSEMBLY	REV 1
1	332272	GRILLE REAR, WELDMENT (3AIR)	1
2	121898	T-HANDLE, COMPRESSION LATCH, NON LOCK	2
3	900114	SCREW, TRUSS HEAD, FLAT DRIVE, 1/4-20-UNC X 3/4" LG.	4
4	609606	WASHER, FLAT, Ø 1/4", SAE NARROW	4
5	030643	WASHER, SPRING LOCK, Ø 1/4"	4
6	030703	NUT, HEX, 1/4-20-UNC	4
7	330080	REAR CAMERA, COLOR FIXED HIRES	1(REF)
8	356969	ANGLE-BRACE CAMERA, ADJUST	2
9	8937040	PLASTIC TRIM	1



CHAPTER 2

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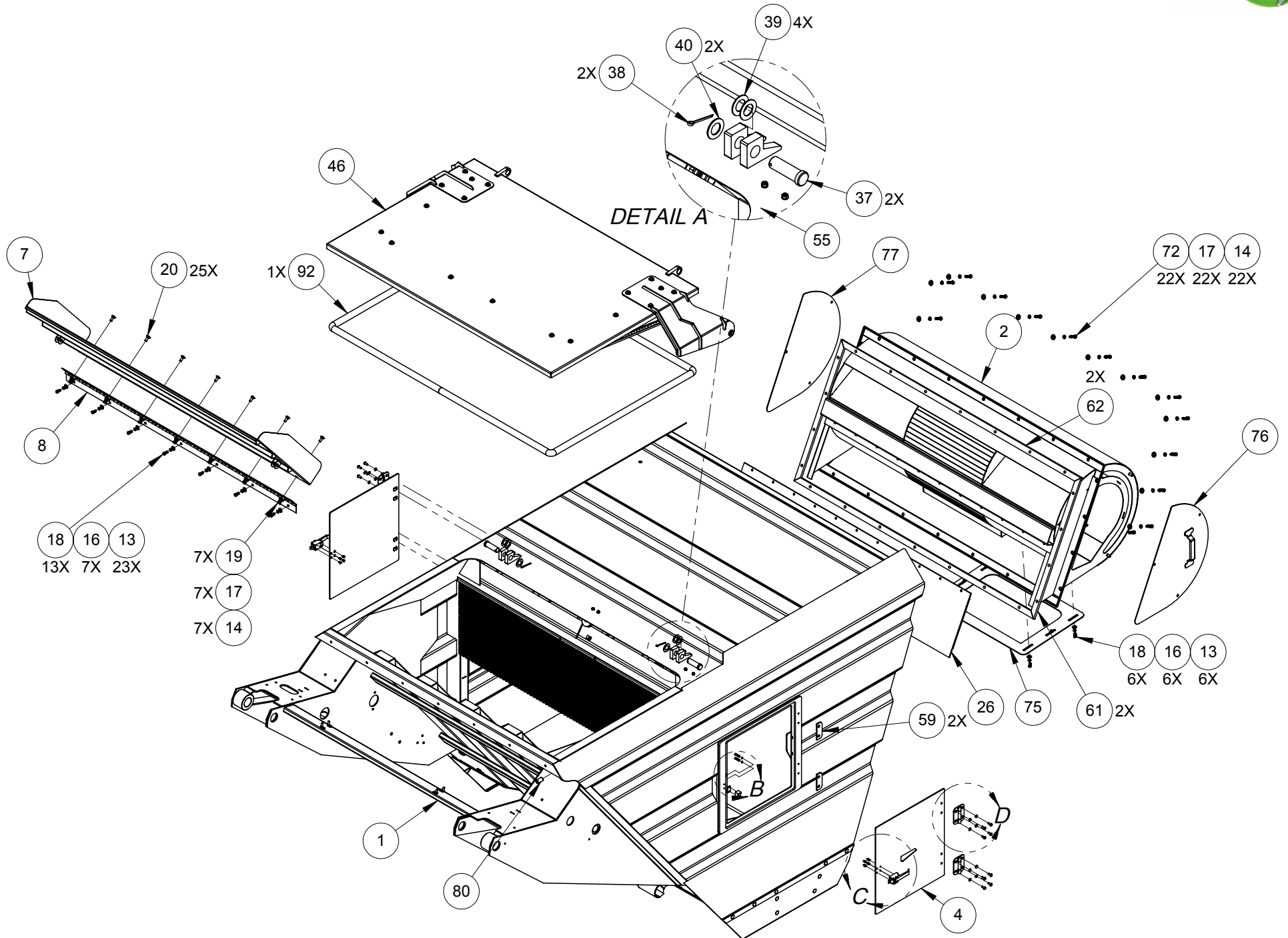


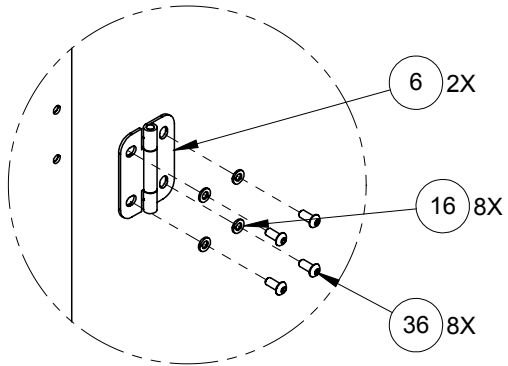
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
REF	335365	HOPPER INSTALLATION	REV A
1	318440	HYD. CYL. 4.00" BORE X 44.44" STROKE	2
2	070988	BEARING, RADIAL	2
3	301718	PIN, PIVOT HOPPER WELD'T	2
4	325433	TOW HOOK WELDMENT	2
5	328075	ROD END-TILT CYLINDER, MODIFIED	2
6	030287	GREASE ZERK STRAIGHT 1/8" Pipe Thread	6
7	301714	PIVOT - PIN WELDMENT	2
8	300401	PIVOT PIN, WELDMENT	2
9	319370	SHIM 3"OD X 1 3/4"ID	2
10	309464	DOCK BUMPER	4
11	325432	PLATE, TOW HOOK	2
12	070540	BUSHING LINKAGE	4
13	070934	BUSHING LINKAGE	2
14	356647	ANGLE-STOP, (RH) SIDE	1
15	313009	PAD	2
16	314134	SHIM HOPPER REST PAD	2
17	356648	ANGLE-STOP, (LH) SIDE	1
18	070991	RETAINING RING, INTERNAL, N5000-244	2
19	311745	CAPLUG - GREASE FITTING	4
20	030605	WASHER,SPRING LOCK,Ø 3/8"	22
21	031146	WASHER,SPRING LOCK,Ø 5/8"	12
22	030592	WASHER,SPRING LOCK,Ø 1/2"	4
23	033147	BOLT,HEX,HEAD,3/8-16-UNC x 3/4"LG	6
24	305399	BOLT,HEX,HEAD,5/8-11-UNC x 2"LG	8
25	034422	BOLT,HEX,HEAD,3/8-16-UNC x 1 1/2"LG	12
26	041847	BOLT,HEX,HEAD,1/2-13-UNC x 1 3/4"LG	4
27	030560	BOLT,HEX,HEAD,5/8-11-UNC x 1 1/4"LG	2
28	039445	BOLT,HEX,HEAD,5/8-18-UNF x 3" LG	2
29	034423	BOLT,HEX,HEAD,3\8-16-UNC x 1" LG. GR8	4
30	305467	BOLT,HEX,HEAD,5/8-11-UNC x 2 1/2"LG	2
31	035561	WASHER,FLAT,Ø 5/8"	24
32	038266	WASHER,FLAT,Ø 3/8",SAE NARROW	18
33	023687	WASHER,FLAT,SAE,Ø 1/2"	4
34	030420	NUT, HEX, 5/8-11-UNC	8
35	032945	NUT,HEX,JAM,5/8-18-UNF	4
36	038598	NUT,HEX,NYLON LOCK,5/8-11-UNC	2
37	335076	HOPPER ASSEMBLY, R3	1
38	332241	ROD ASSEMBLY, HIGH DUMP, (3AIR)	2
39	333701	CHUTE SUPPORT ASSY_RH	1
40	333702	CHUTE SUPPORT ASSY_LH	1
41	301726	TUBE	2



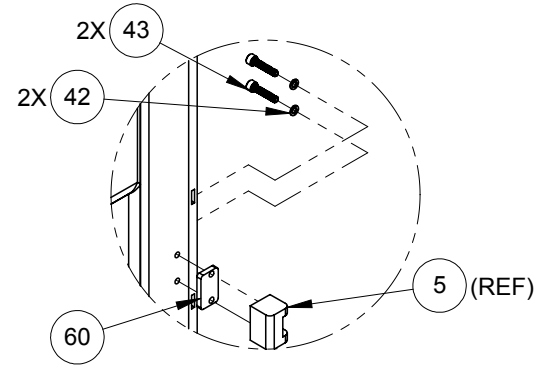
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HOPPER ASSEMBLY, R3

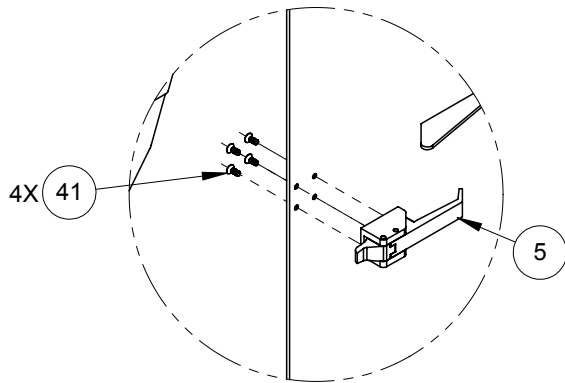




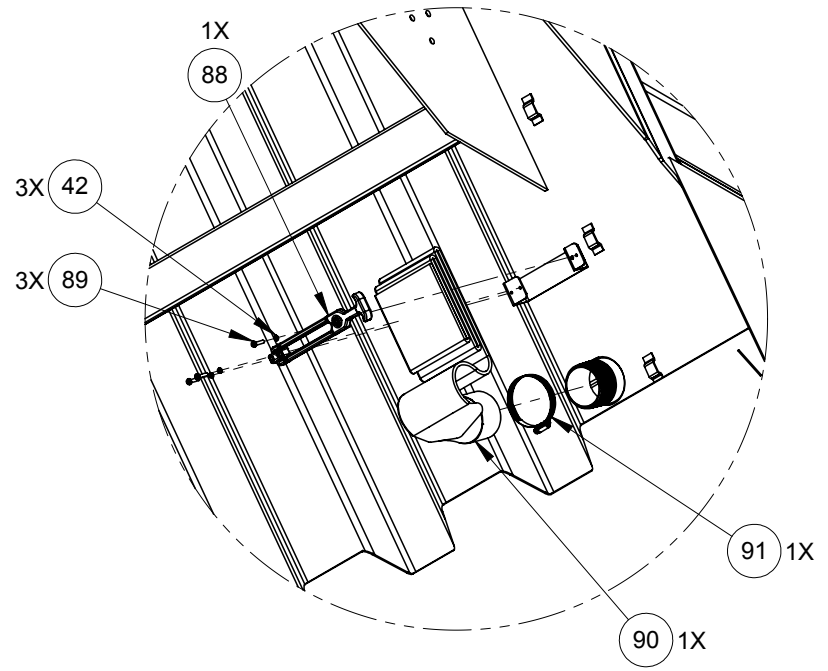
DETAIL D
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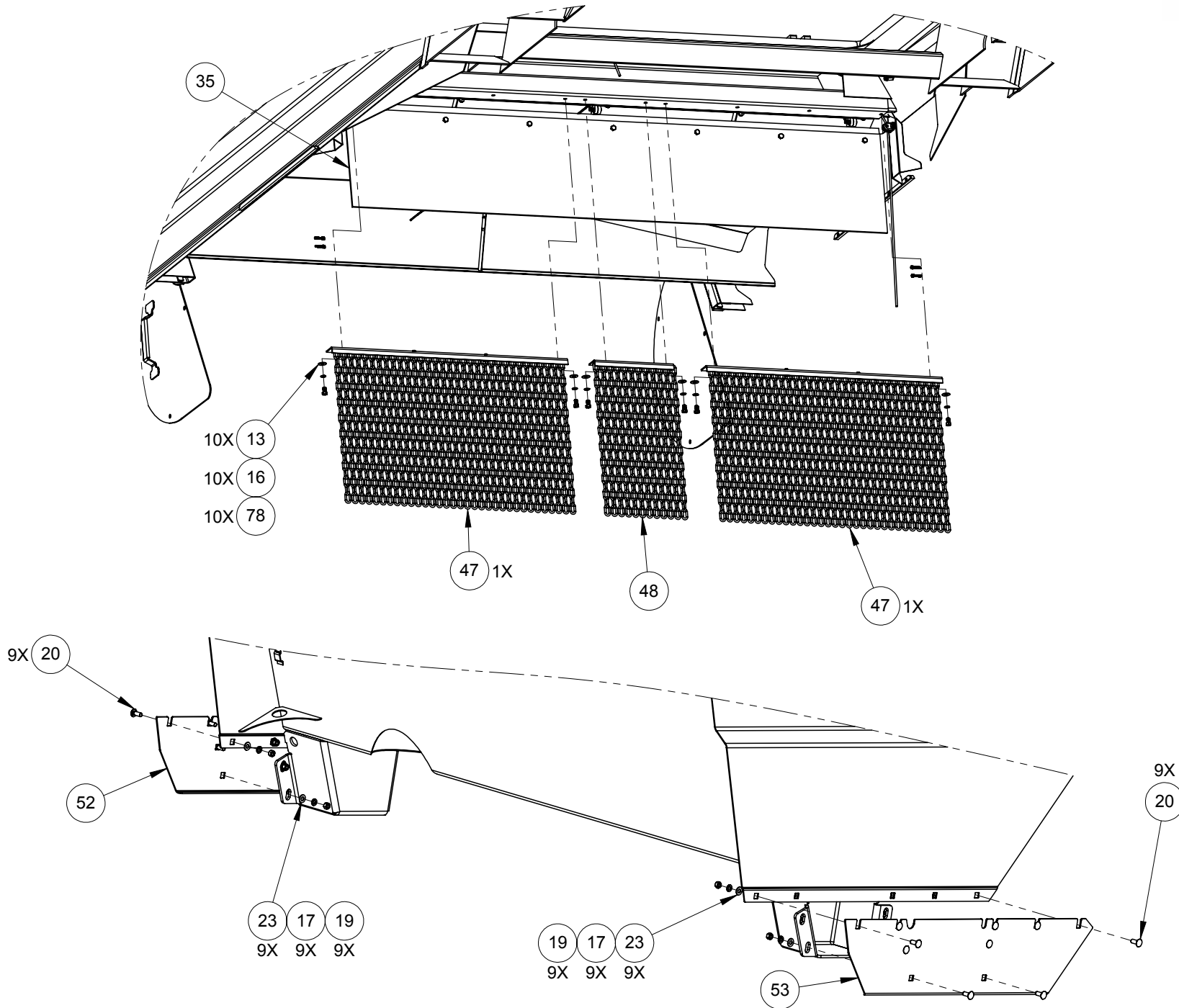


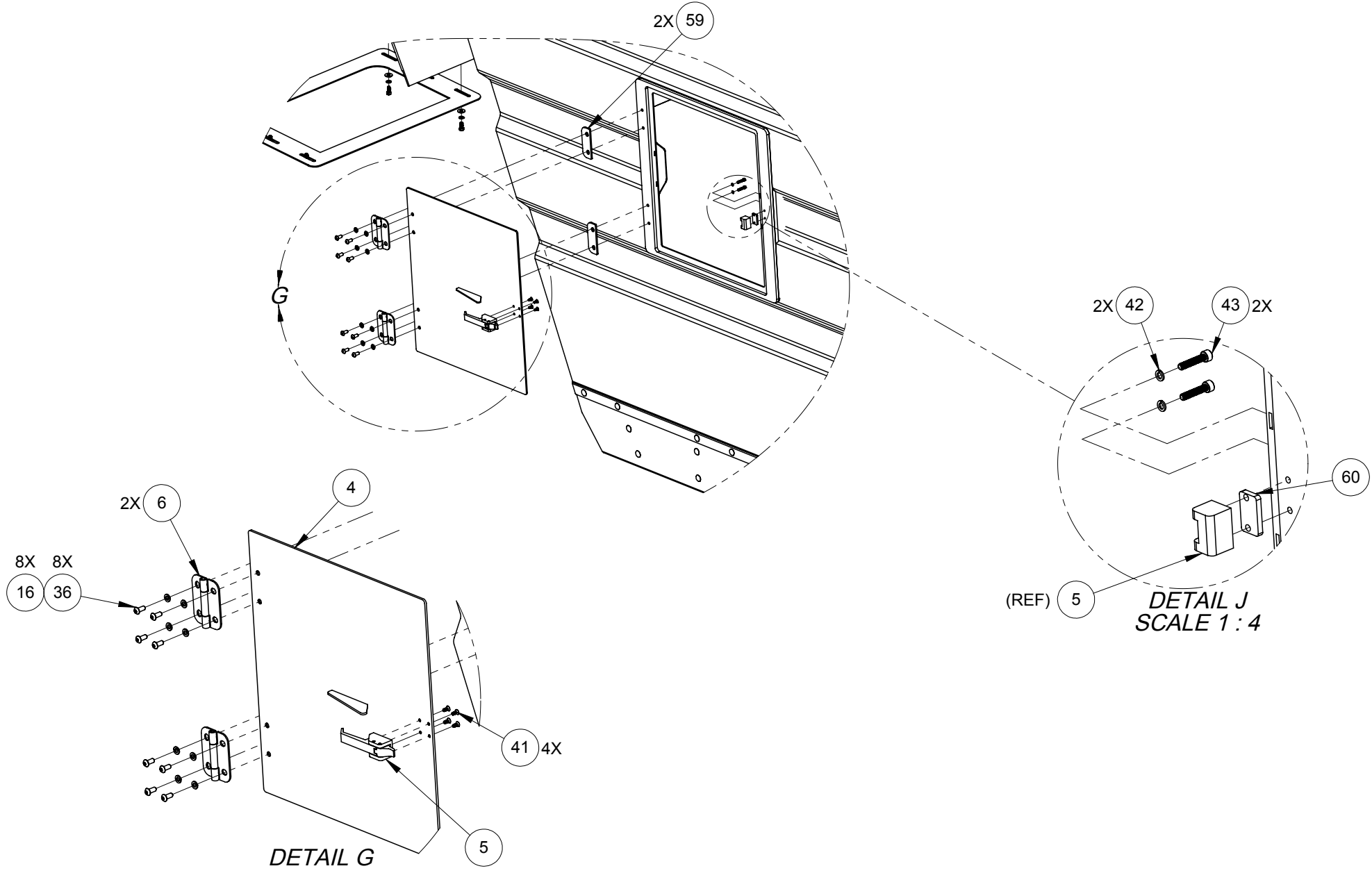
DETAIL B
SCALE 1 : 6

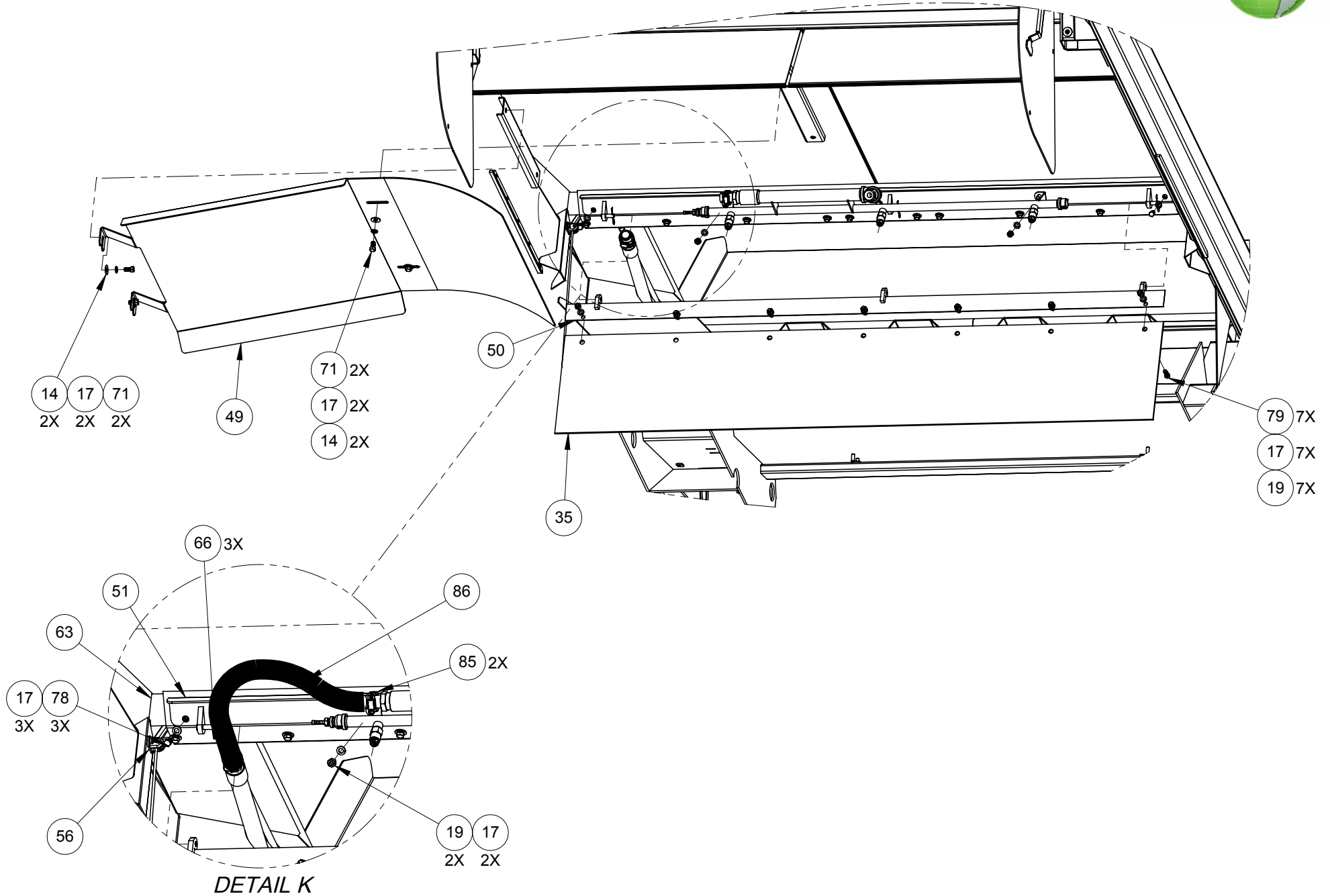


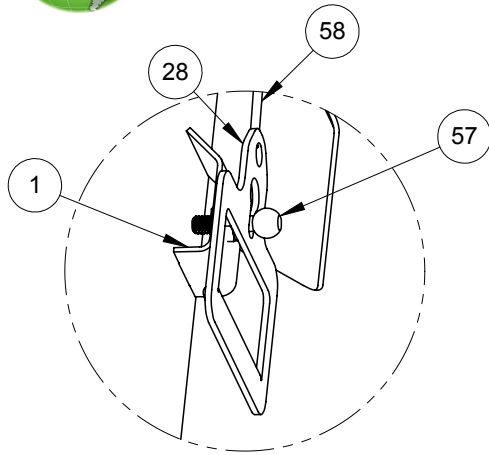
DETAIL C
SCALE 2 : 15



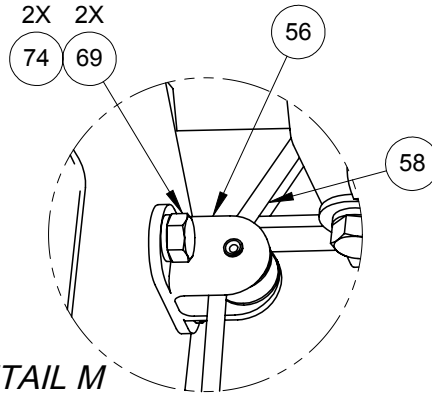




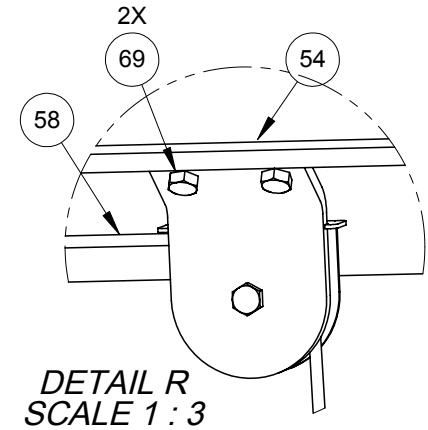




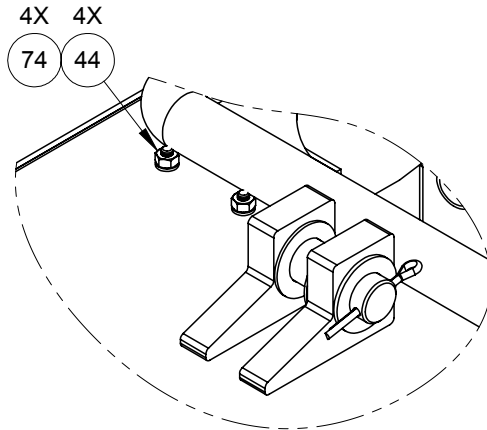
DETAIL L
SCALE 1 : 4



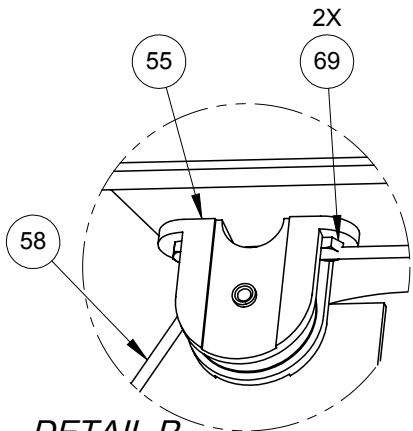
DETAIL M
SCALE 1 : 2



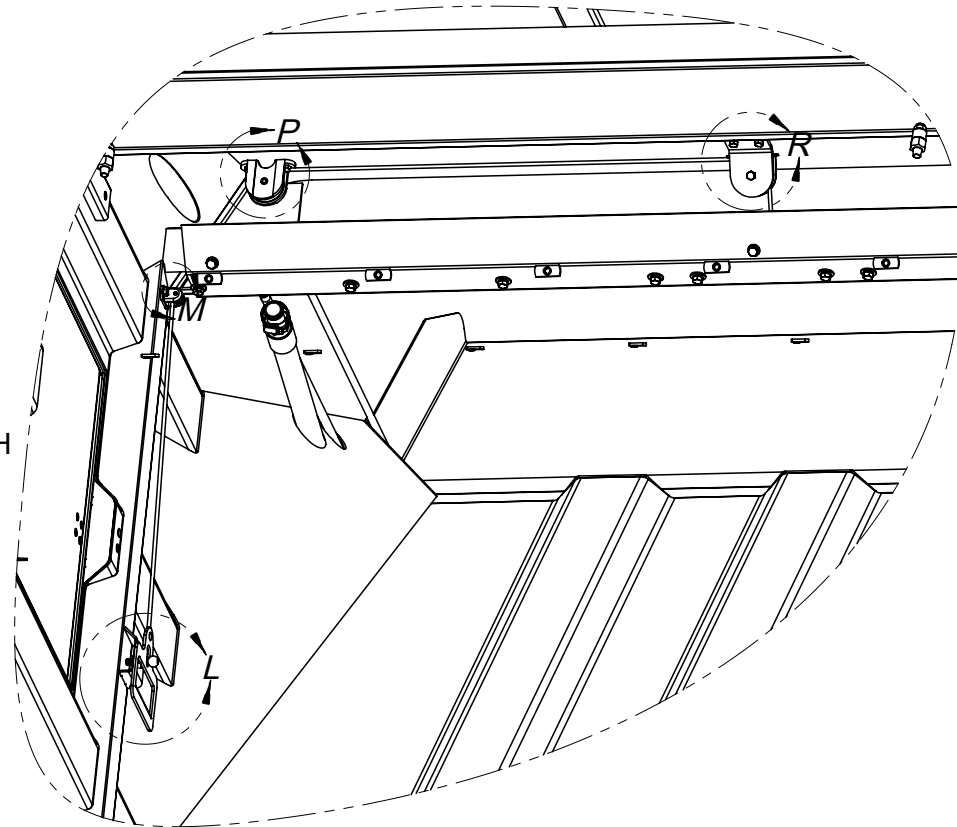
DETAIL R
SCALE 1 : 3



NOTE: BOLTS FROM 52 AND 53 GO THROUGH ROOF OF HOPPER, AS SHOWN ABOVE



DETAIL P
SCALE 1 : 3



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
REF	335076	HOPPER ASSEMBLY, R3	REV A
1	337063	HOPPER HIGH DUMP VACUUM, WLDMT	1
2	336435	WLDMT - DUST SEPARATOR	1
4	332382	HOPPER ACCESS DOOR, WLDMT	2
5	332380	LATCH, COMPRESSION	2
6	332360	HINGE, BUTT S.S.T.	4
7	329895	WELDMENT, DUMP CHUTE, EXTENDED	1
8	329926	HINGE, DUMP CHUTE	1
13	030489	WASHER,FLAT,Ø 5/16",USS,WIDE,7/8" O.D.	23
14	030557	WASHER,FLAT,USS,Ø 3/8"	33
16	030373	WASHER,SPRING LOCK,Ø 5/16"	39
17	030605	WASHER,SPRING LOCK,Ø 3/8"	63
18	030483	BOLT,HEX,HEAD,5/16-18-UNC x 3/4"LG	13
19	030599	NUT, HEX, 3/8-16-UNC	34
20	325772	BOLT,CARRIAGE,ROUND HEAD,3/8-16-UNC x 1" LG.	25
23	038266	WASHER,FLAT,Ø 3/8",SAE NARROW	18
26	306961	FLAP-DUST SEPARATOR DOOR	1
28	334011	HANDLE	1
35	314006	BAFFLE, DUST	1
36	331242	SCREW,BUTTON HEAD,SOCKET CAP,5/16-18-UNC X 3/4" LG. (SS)	16
37	331875	CLEVIS-PIN, 1.0" DIA X 3.0" LG.	2
38	351214	COTTER PIN Ø5/32" X 2" LG	2
39	331876	WASHER-FLAT NYLON, 1.0 I.D.	4
40	331872	WASHER-FLAT STAINLESS STL. , 1.0" ID	2
41	332385	SCR, FLT HD ALLEN M5X.8 X 12MM LG.	8
42	035604	WASHER, LOCK #10 (GR.8YZ)	4
43	334155	SCR SOC HD CAP, M5-0.8 X 25MM LG.	4
44	030703	NUT, HEX, 1/4-20-UNC	4
46	337076	HOPPER DOOR VACUUM ASSY	1
47	337510	CHAIN CURTAIN WLDMT 18-1/2" LG.	2
48	337511	CHAIN CURTAIN CENTER 18-1/2" LG.	1
49	337256	WEAR PLATE WELDMENT	1
50	337091	FLAP SUPPORT WELDMENT	1
51	337092	FIXED SUPPORT WELDMENT	1
52	331877	HOPPER-PANEL BOTTOM, (RH) SIDE	1
53	331878	HOPPER-PANEL BOTTOM, (LH) SIDE	1
54	337137	PULLEY ASSY	1
55	337075	SCREEN PULLEY	1
56	337143	SMALL PULLEY	1
57	337158	BALL STUD, 3/8"-16	1
58	337078	WIRE CABLE 3/16" OD	1
59	336764	DOOR SPACER	4
60	336765	DOOR SPACER LATCH	2

HOPPER ASSEMBLY, R3



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
61	304885	SEAL-SHORT	2
62	304886	SEAL-LONG	2
63	337554	HOPPER CENTER BRACE EXTENSION	1
65	337097	SPRAY TUBE WELDMENT	1
66	337077	1" CLEVIS PIN	3
67	337270	SPRAY NOZZLE 1/4LNN ATMZING	5
69	033145	BOLT,HEX,HEAD,Ø 1/4-20-UNC x 3/4"LG	6
71	033147	BOLT,HEX,HEAD,3/8-16-UNC x 3/4"LG	4
72	034422	BOLT,HEX,HEAD,3/8-16-UNC x 1 1/2"LG	22
74	030643	WASHER,SPRING LOCK,Ø 1/4"	6
75	337560	DUST SEPARATOR BOTTOM PLATE	1
76	337563	OUTSIDE CAP WLDMT (LH)	1
77	337564	OUTSIDE CAP WLDMT (RH)	1
78	034800	BOLT,HEX,HEAD,5/16-18-UNC x 5/8"LG	13
79	031433	BOLT,HEX,HEAD,5/16-18-UNC x 1"LG	7
80	025236	COUPLING, 1/4 NPT	1
82	337583	FITTING, 1/4" NPT TO 1/4" BARB	1
83	337584	REDUCER, 1/2" FNPT TO 1/4" FNPT	1
83	211222	CAP 1/2 PIPE TAPERED	1



NOTES
NOTES



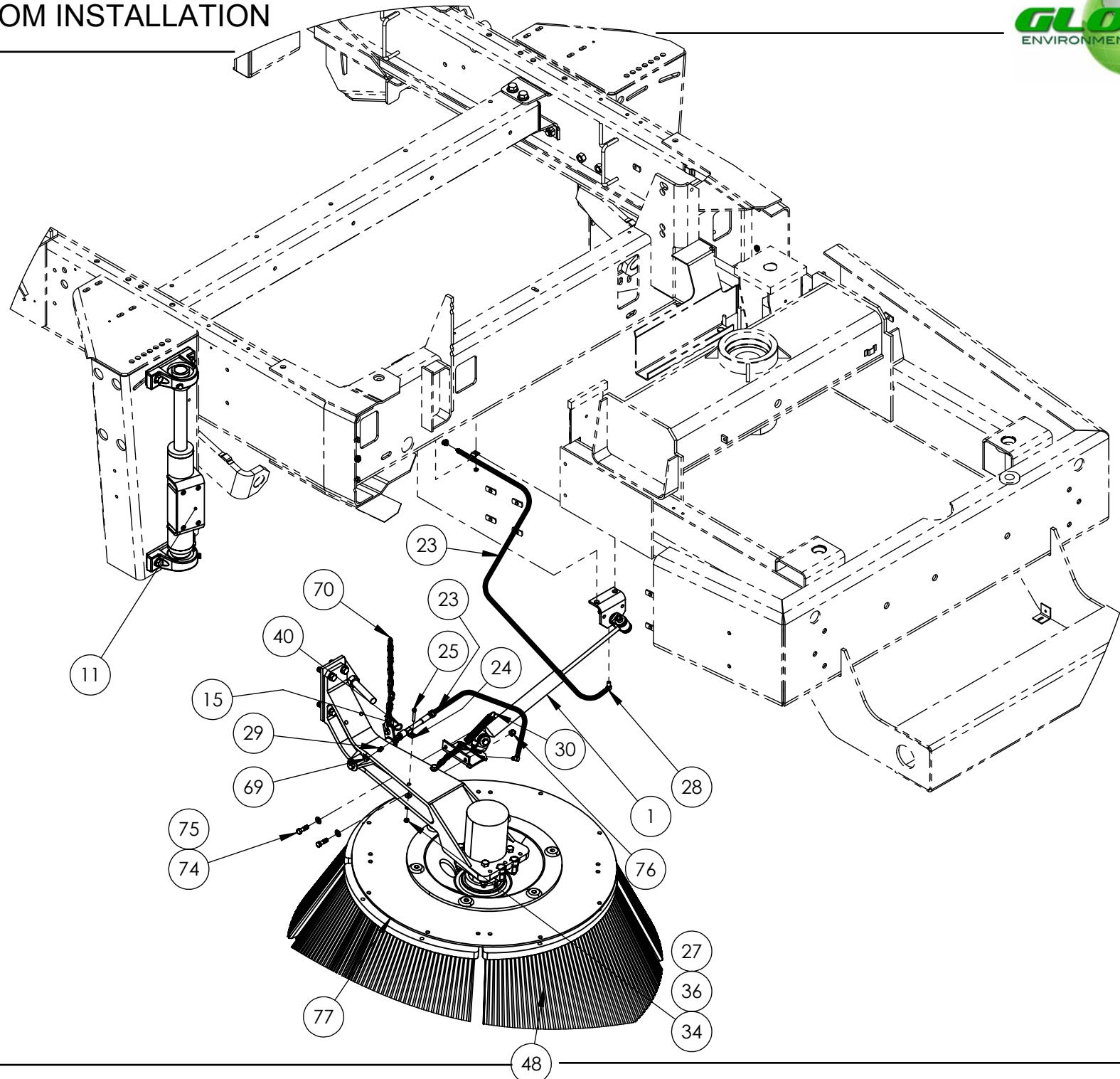
CHAPTER 3

Group--Broom, Vacuum & Blower

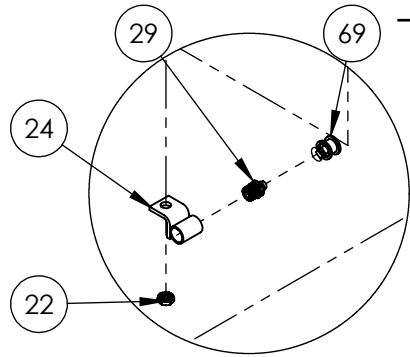
3

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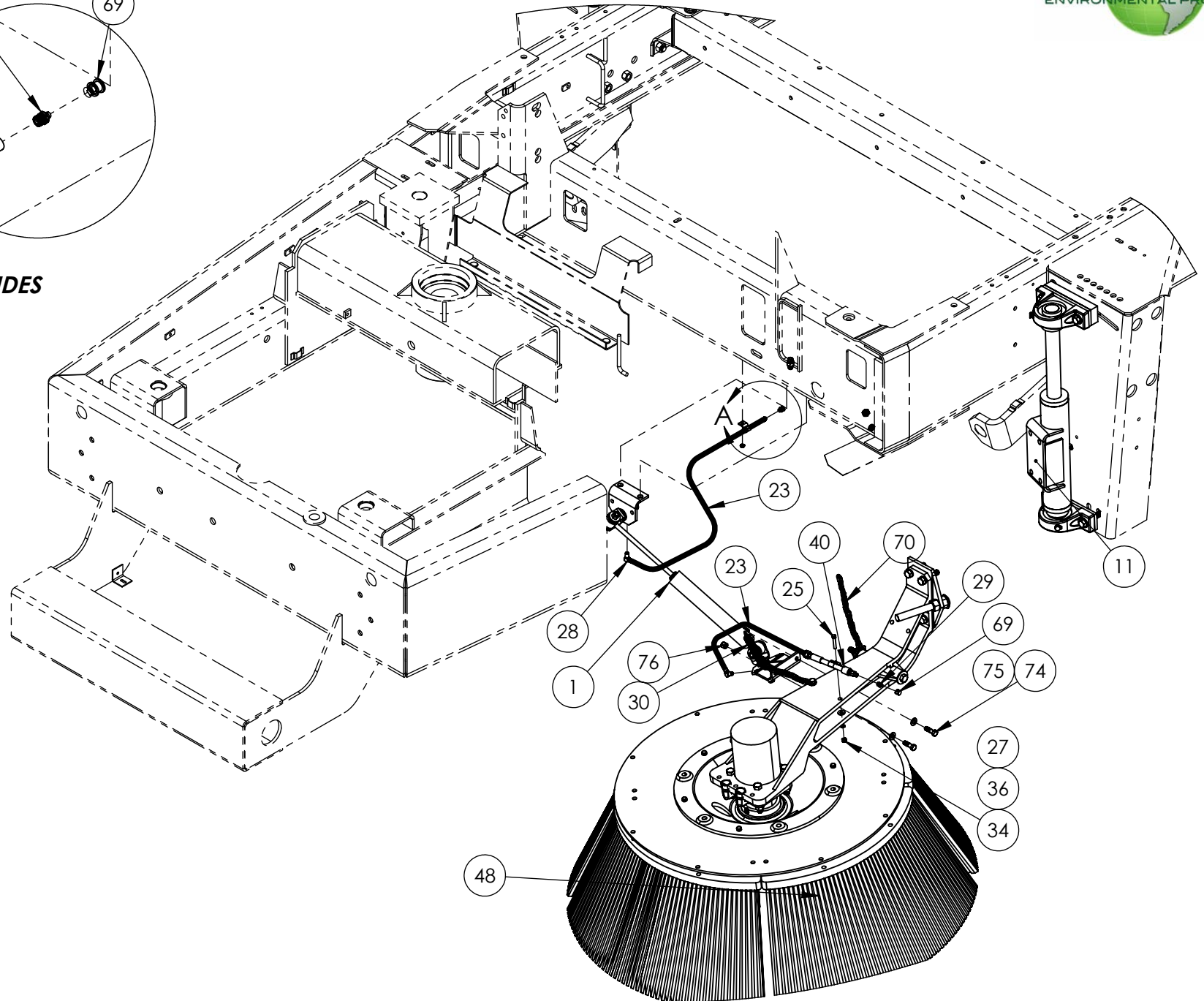
<u>Subject</u>	<u>Page</u>
Gutter Broom Installation	3.4
Gutter Broom Shock Assy	3.18
Gutter Broom Lift Shaft	3.22
Gutter Broom Tilt Assembly LH	3.25
Gutter Broom Tilt Assembly RH	3.29
Gutter Broom Motor Assembly	3.33
Gutter Broom Support Installation	3.35
Fan Housing Installation/Assembly.....	3.39
Vacuum Hood installation	3.46



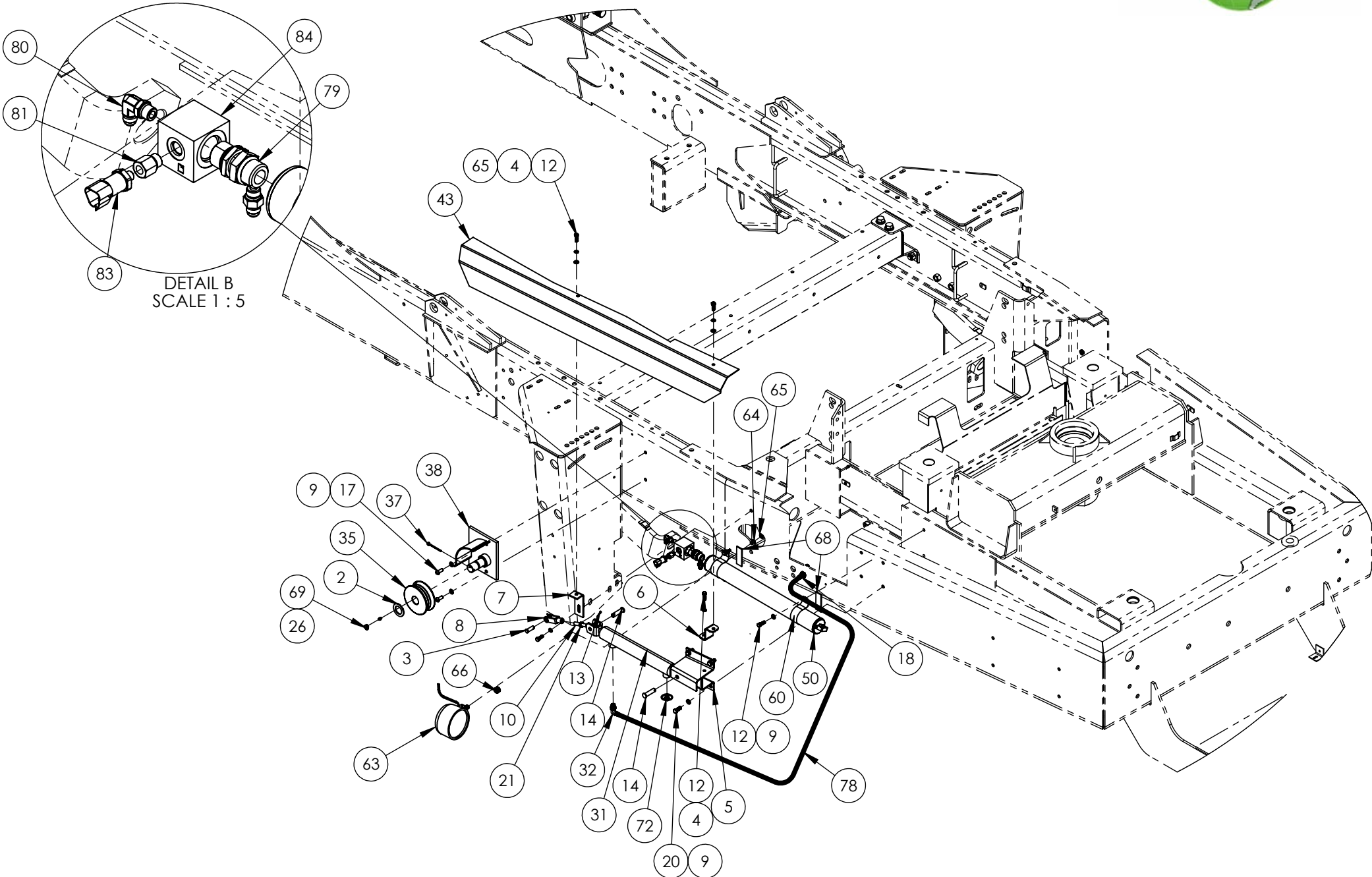
GUTTERBROOM INSTALLATION



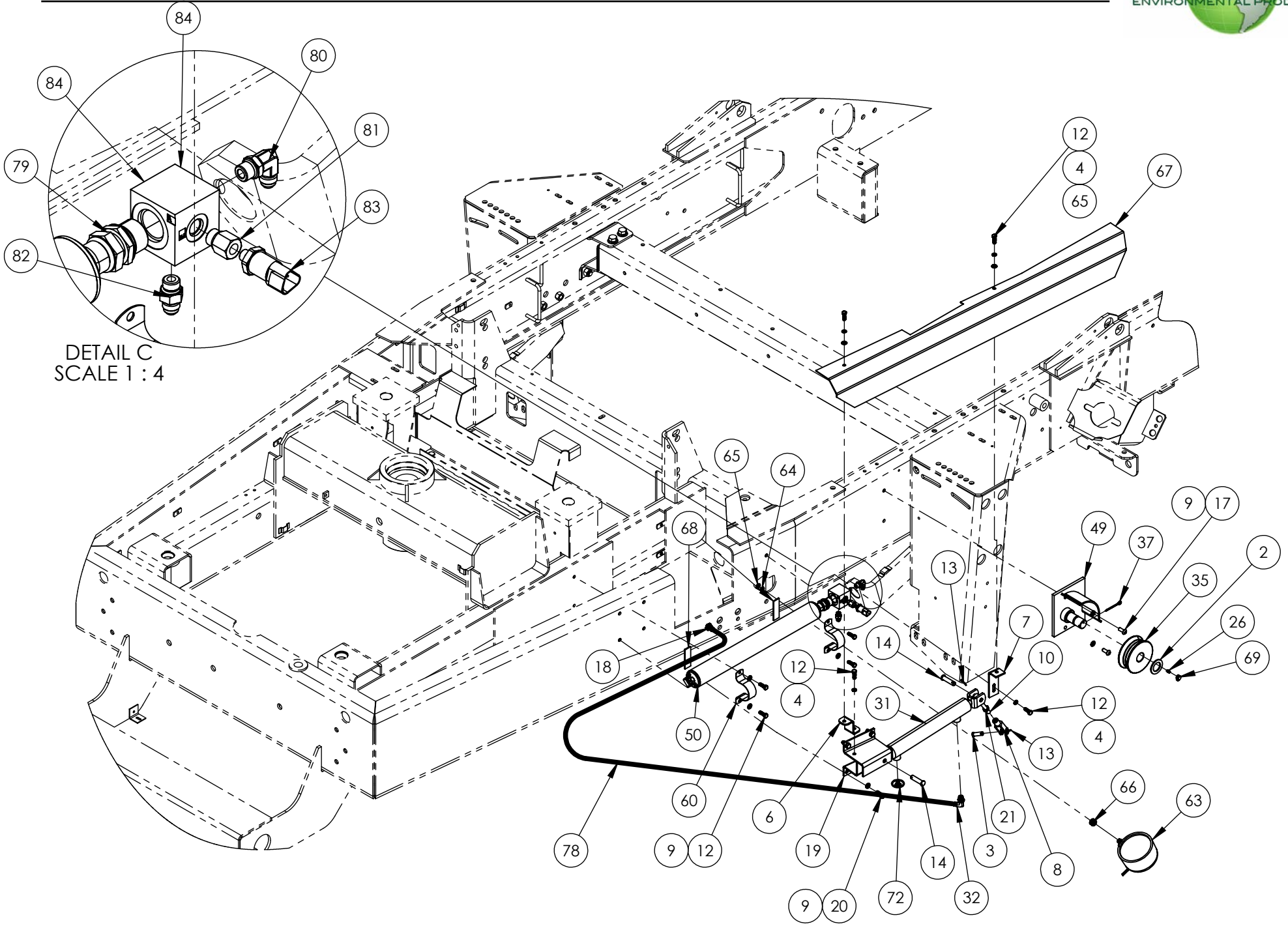
DETAIL A
SAME ON BOTH SIDES
SCALE 1 : 5



GUTTERBROOM INSTALLATION



GUTTERBROOM INSTALLATION





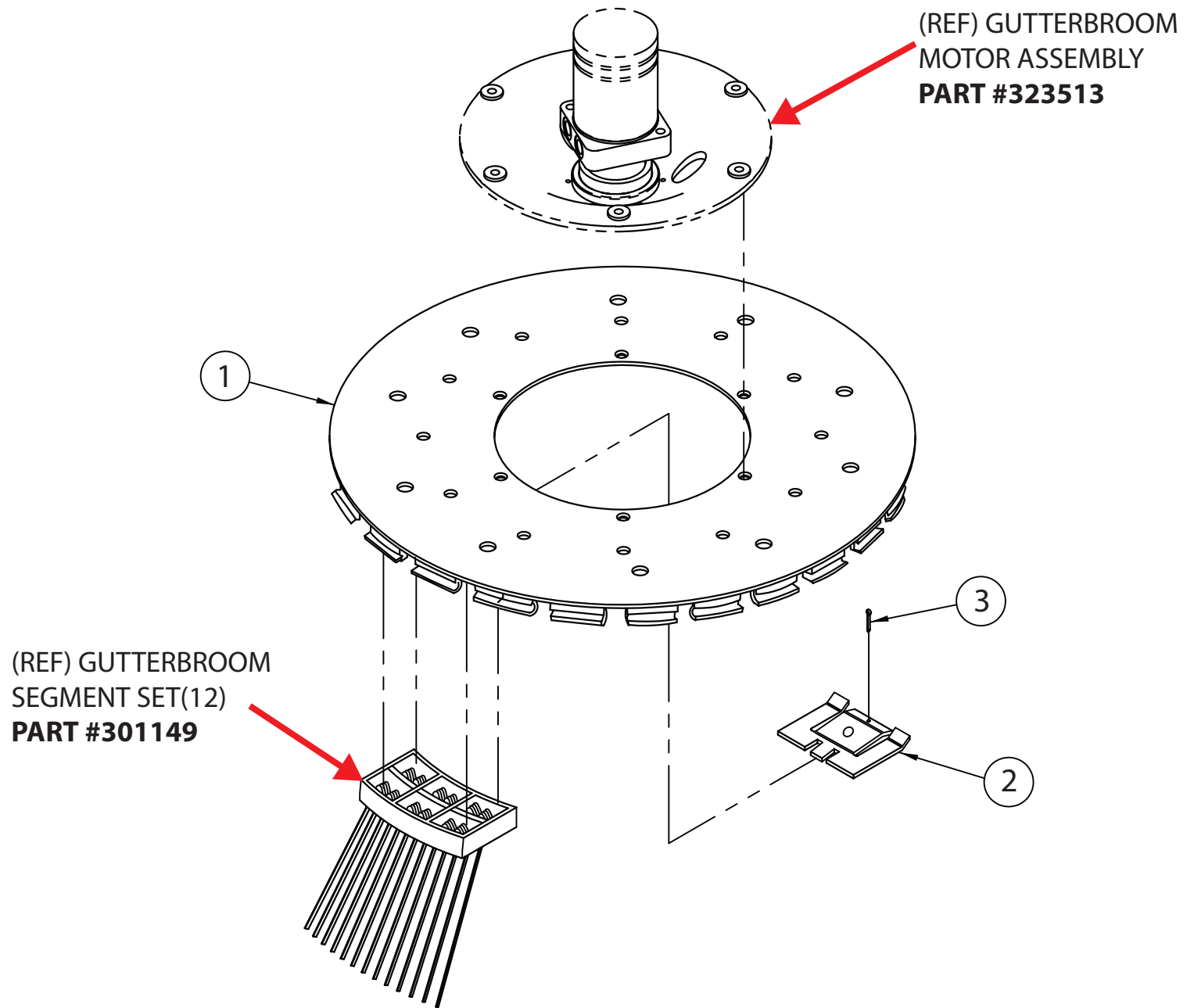
GUTTERBROOM INSTALLATION

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
REF	322695	GUTTERBROOM INSTALLATION	REV M
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, BTN HD 1/4-20UNC X 5/8" LG SST	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	CYLINDER COVER RH, FIBERGLASS	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
60	322713	CLAMP, PIPE STRAP, 2.28 @ 2.40"Ø	4
63	329574	LED G.B. WORK LIGHT	2
64	023805	WASHER, STAR 5/16", EXT. (ZP)	2

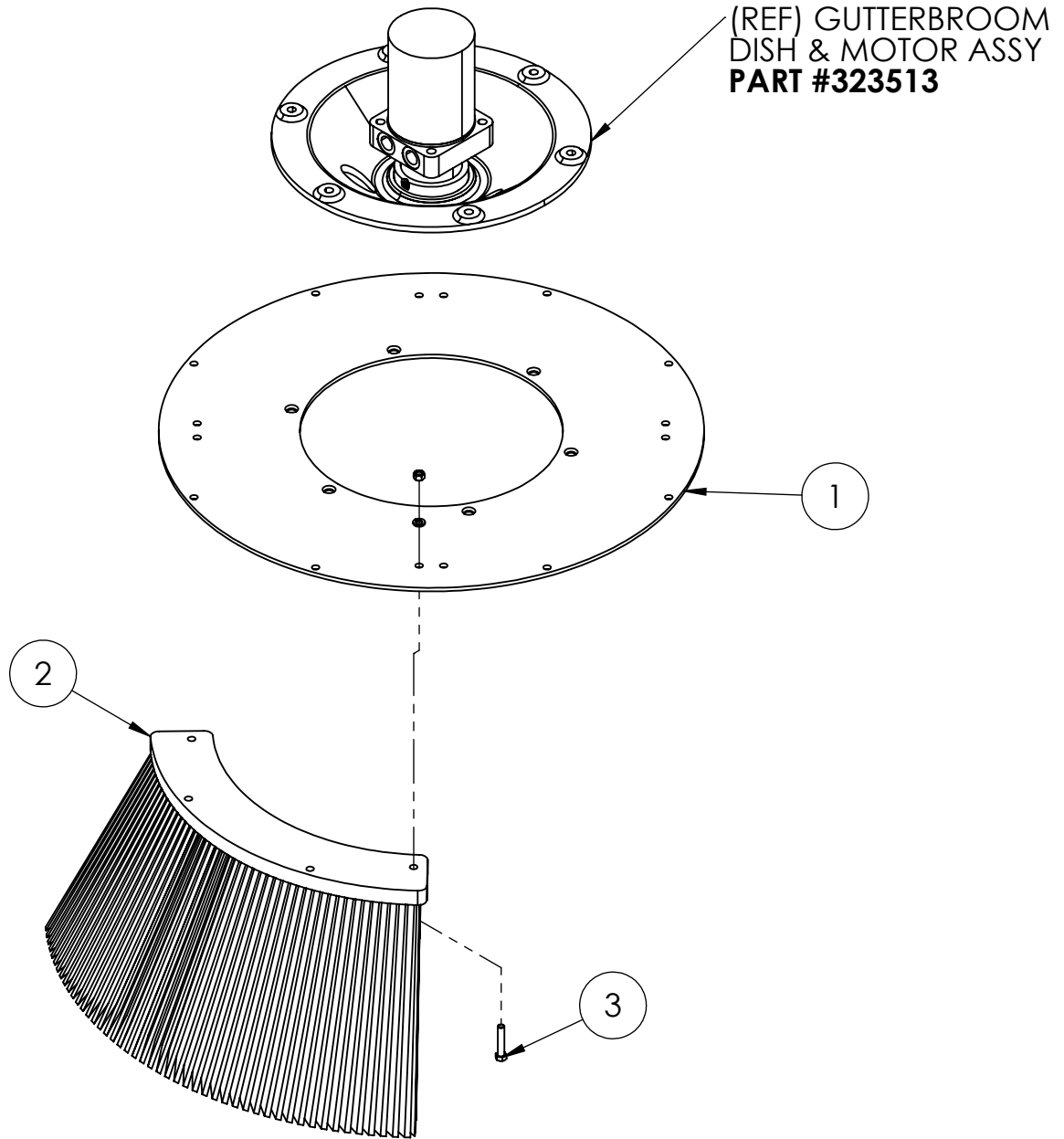
GUTTERBROOM INSTALLATION



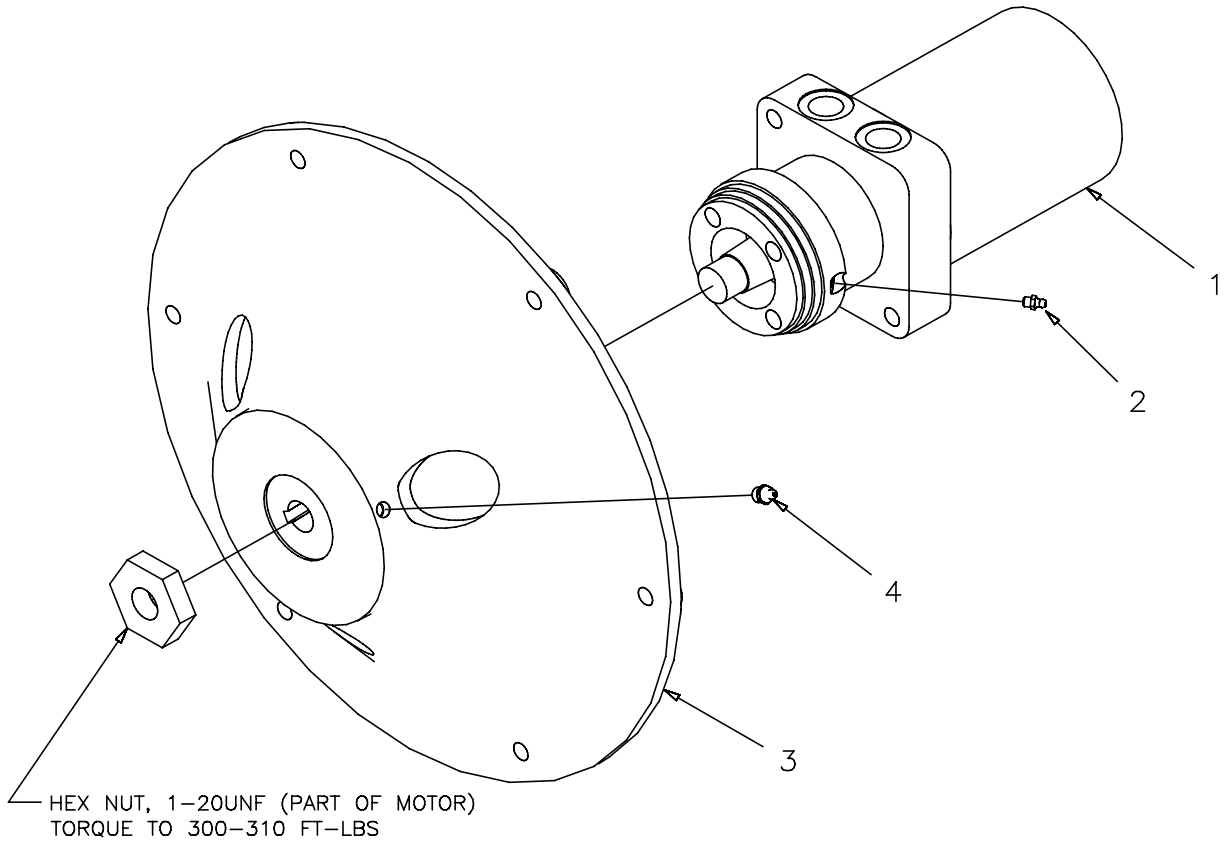
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
65	651420	WASHER,FLAT,Ø 5\16", SAE NARROW, 11/16" O.D.	6
66	324190	GROMMET AN931-C6-9	2
67	331828	COVER, CYLINDER L.H.	1
68	896973001	RUBBER STRIP 1/8x3X1	4
69	311745	CAPLUG - GREASE FITTING	6
70	896636030	CHAIN, 1/4 HI CARBON 30 LINKS	2 REF
71	896636032	CHAIN, 1/4 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
79	334628	UNION-STRAIGHT, 12-12 O-RING	2
80	054289	ELBOW, MB-MJ90-6	2
81	355711	ADAPTER, MB-FP-6-2	2
82	204003	CONN, MB-MJ-6	2
83	331006	PRESSURE TRANSDUCER, 1000PSI	2
84	334777	ACCUMULATOR MANIFOLD	2



ITEM #	PART #	DESCRIPTION	QTY
1	300905	PLATE WLD 12 SEG	1
2	054990	LATCH SEGMT	12
3	055012	PIN-COTTER, 5/32 X 1	12



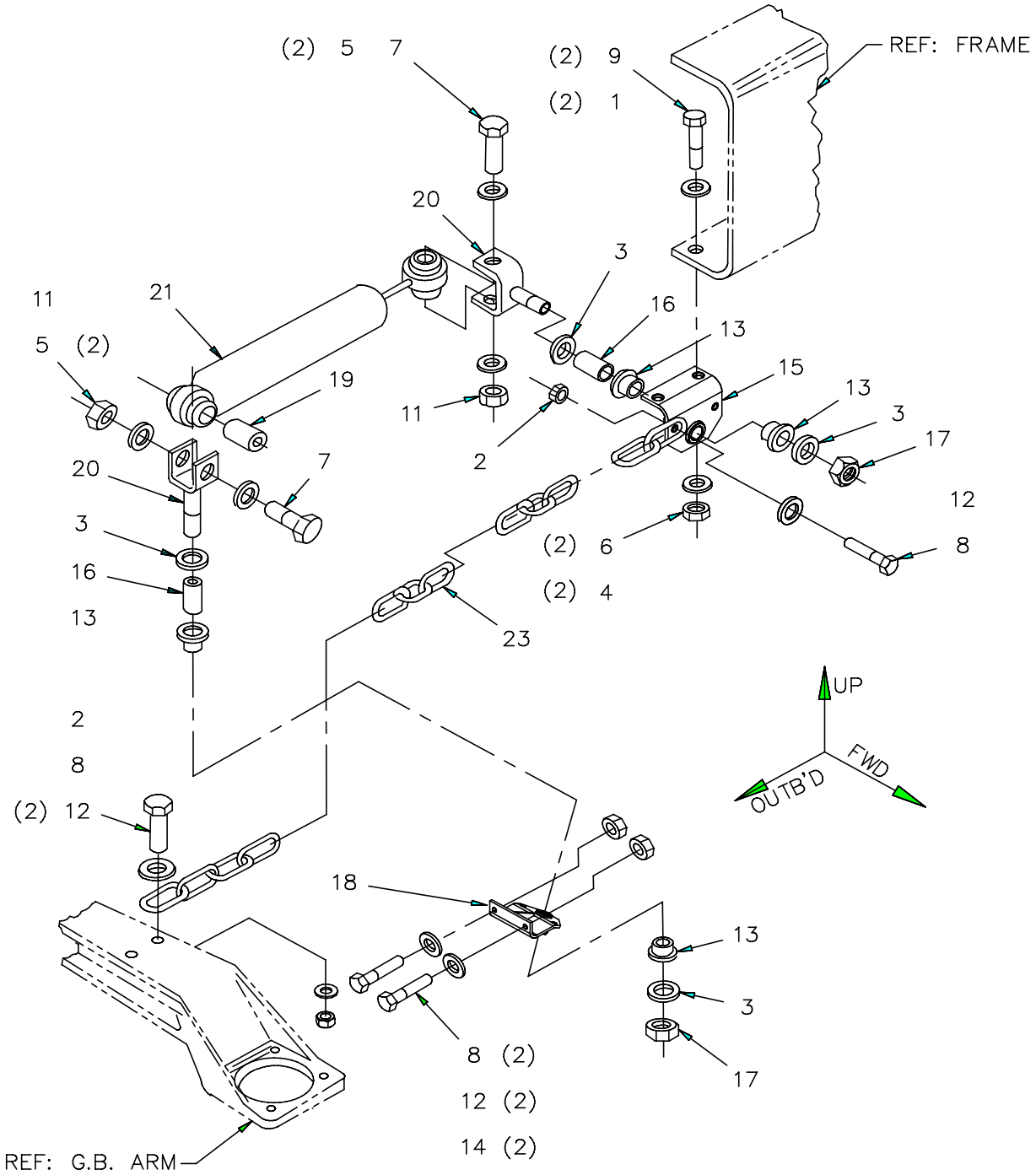
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	D302191	PLATE-G.B. 4 BOLT ON SEGMENTS	1
2	320914	GB- 4 SEG. BOLT-ON	1
3	033146	SCR-HX HD PLTD 3/8-16 X 2 GR8	16
4	030605	WASHER- LOC,SPLIT,PLTD,3/8 GR8	16
5	030599	NUT- PLATED, 3/8-16 GR8	16



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



Shock Absorber Assembly



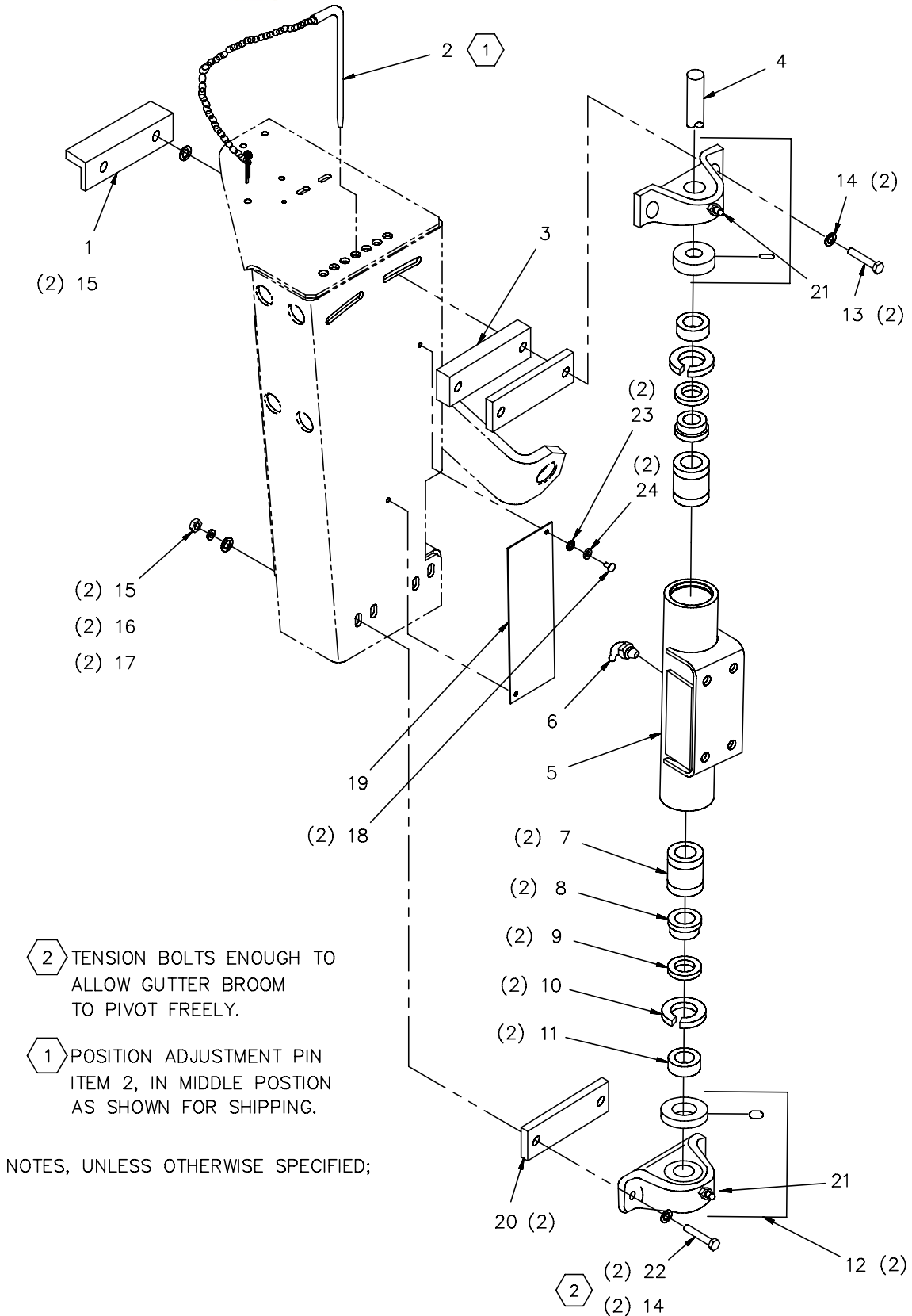


Shock Absorber Assembly

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				







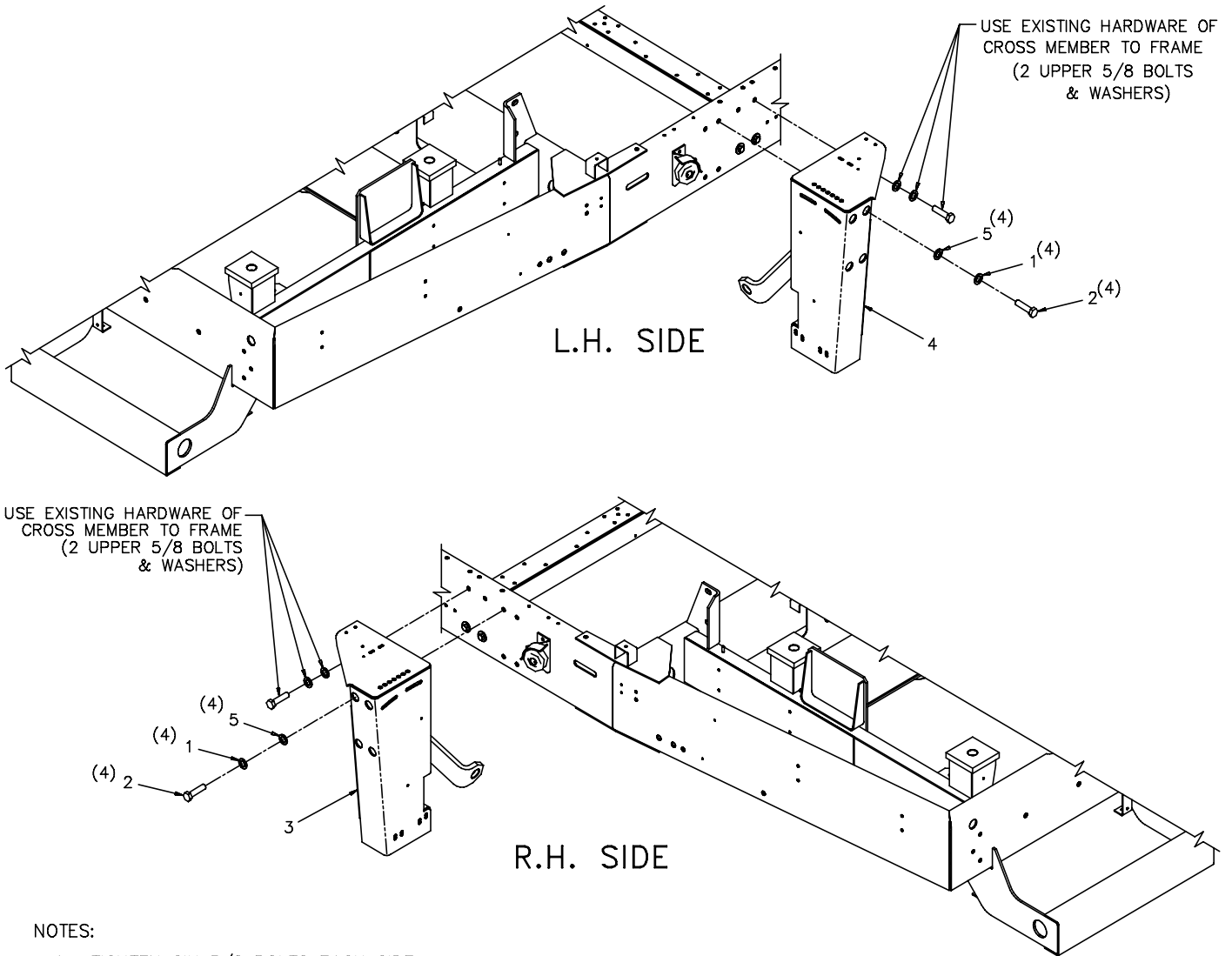
Gutter Broom Lift Shaft Assy

CHAPTER 3

Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	319145	Gutter Broom Lift Shaft Assy	E Ref	21	035136	Zerk Fitting 1/4-28	2
1	301523	Angle Wld	1	22	305400	Scr-hx Hd,Plt,1/2-13x2-1/2 GR8	2
2	301763	Chain Assy	0	23	035605	Washer - Flat, USS, Pltd 1/4	2
3	308007	Spacer	1	24	030643	Washer - Loc, Splt, Pltd 1/4 GR8	2
4	304386	Shaft Stnls Stl	1				
5	309038	Pivot Mounting Weldment	1				
6	035137	Zerk Fitting 90 Deg 1/4-28	1				
7	300285	Bushing-ball	2				
8	300234	Wiper Ring	2				
9	300235	Housing Wiper	2				
10	300284	Retaining Rint, Int N5000-237	2				
11	300003	Bumper	2				
12	305207	Bearing, Pillow Block	2				
13	032237	Scr- Hx Hd Pltd 1/2-13 X 3	2				
14	023687	Washer Flat Sae Plated 1/2	4				
15	030595	Washer Flat Uss Plated 1/2	4				
16	030592	Washer- Loc, Splt Pltd 1/2 GR8	2				
17	030596	Nut- Plated, 1/2-13	2				
18	033145	Scr-Hx Hd Pltd,1/4-20x3/4 GR8	2				
19	317644	Plate,Rub-gb Stop	1				
20	303592	Spacer G B Arm	2				



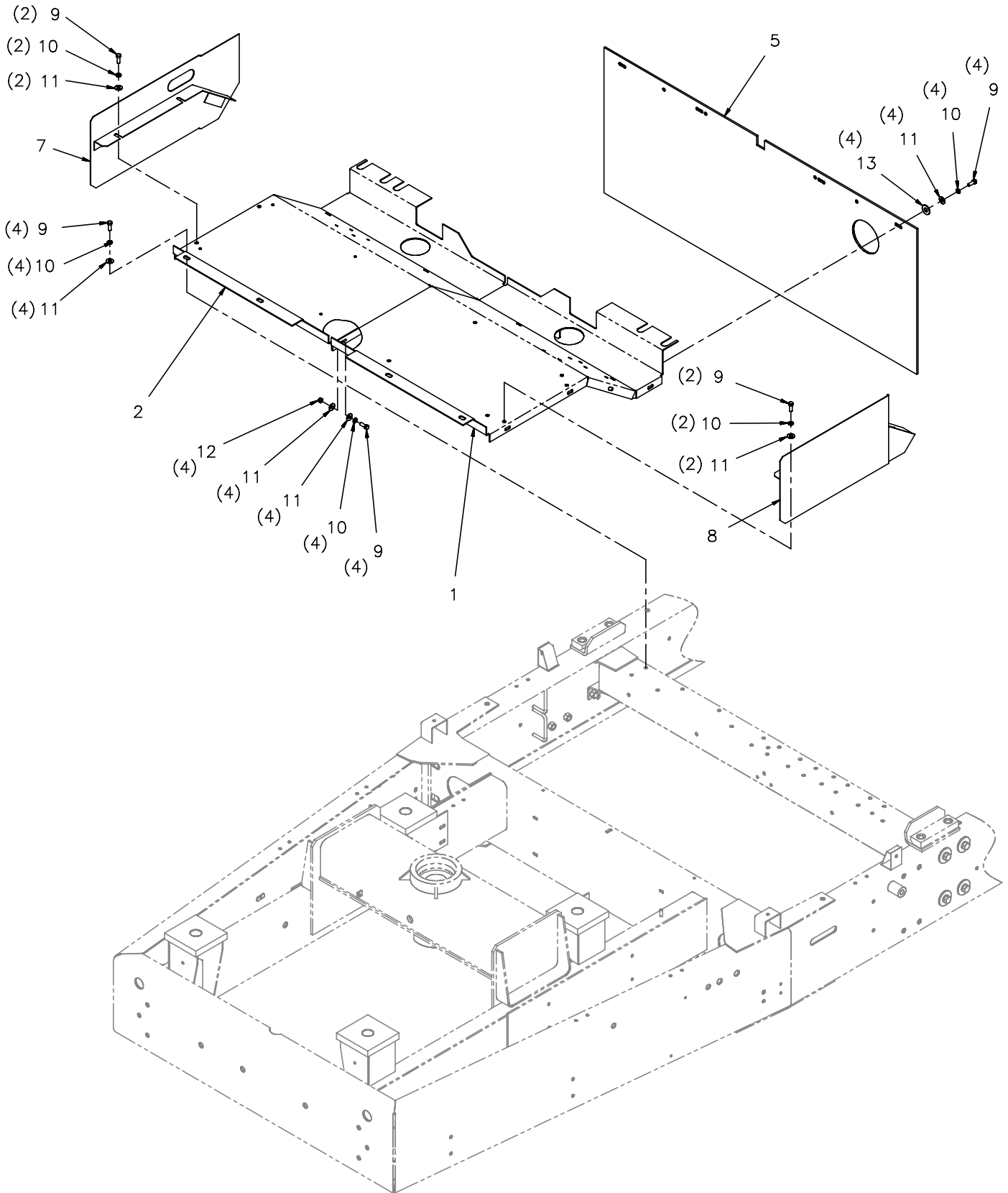
CHAPTER 3



NOTES:

1. TIGHTEN SIX 5/8 BOLTS EACH SIDE TO 165 FT. LBS. OF TORQUE.

Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	326576	Gutter Broom Support Inst.	A Ref				
1	031146	Washer-lock, Split, Pltd, 5/8	8				
2	031457	Scr- Hx Hd, Pltd, 5/8-11x1-1/2	8				
3	326574	Support Wldmt- GB, RH	1				
4	326574	Support Wldmt- GB, LH	1				
5	030558	Washer-flat, Uss, Plated, 5/8	8				





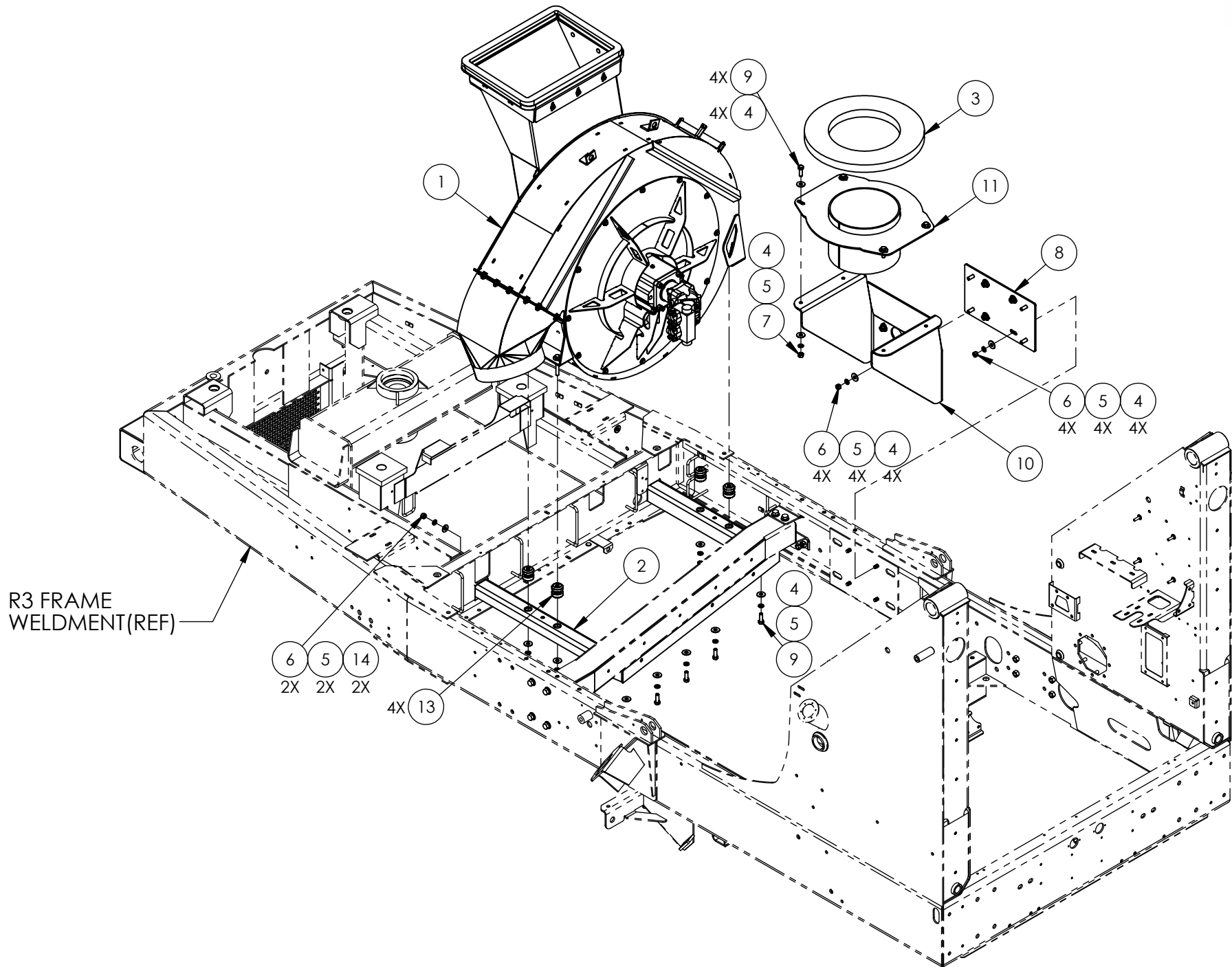
CHAPTER 3

<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>
-	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				



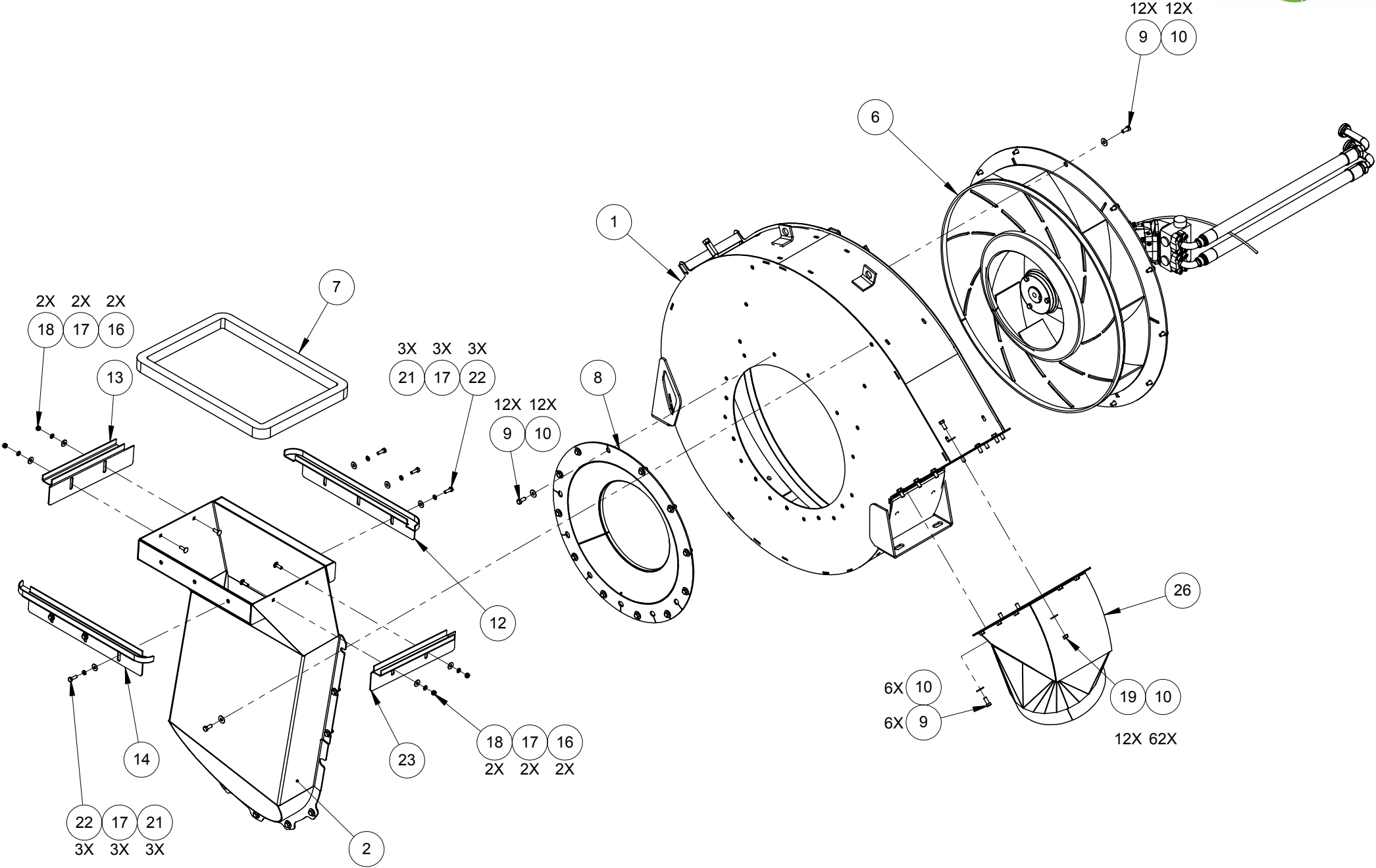


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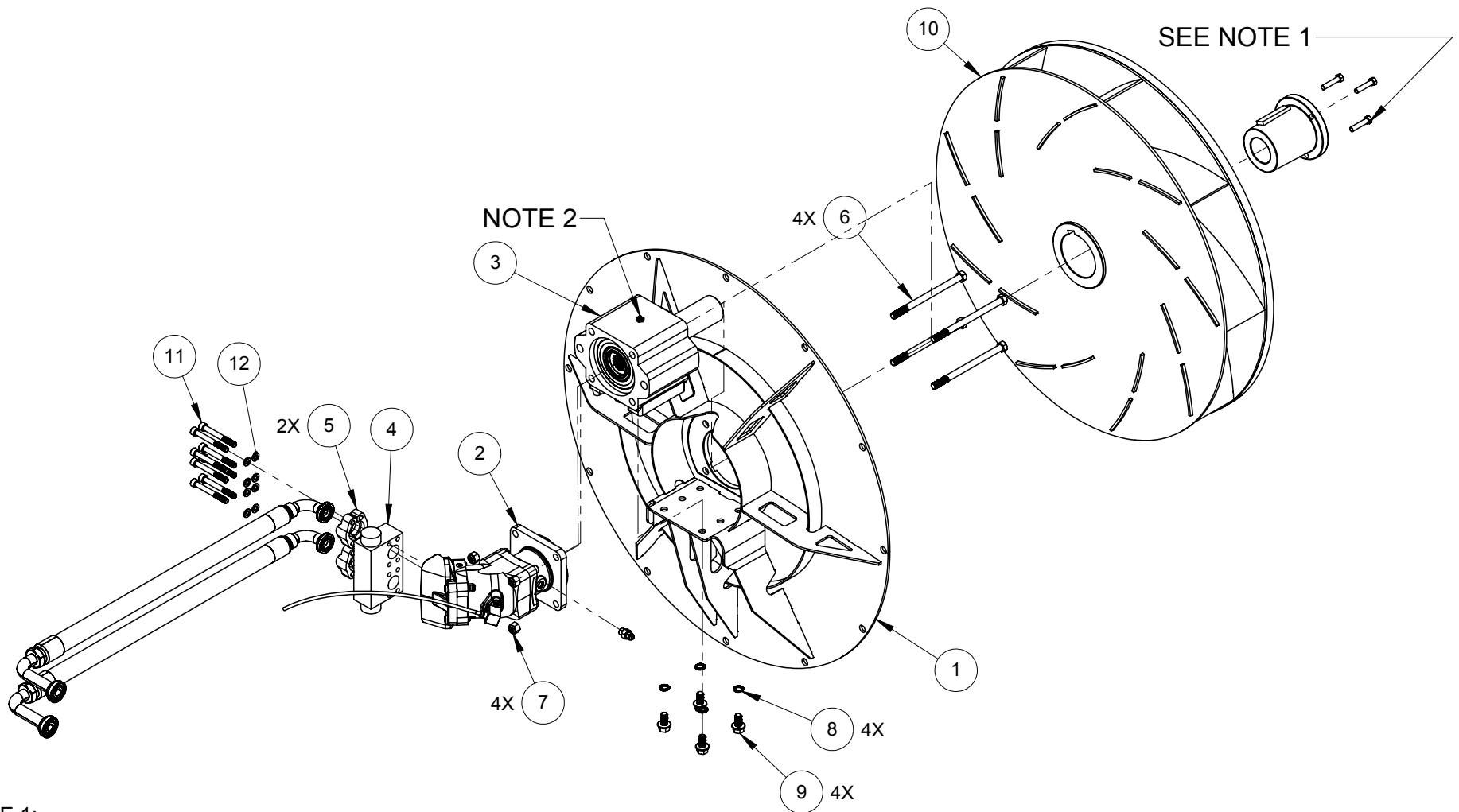


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
REF	335094	BLOWER INSTALLATION	REV A
1	334674	FAN HOUSING ASSEMBLY	1
2	336568	FRAME WLDMT-BLOWER, MTG.	1
3	337424	RUBBER-SEAL, HOPPER	1
4	030595	WASHER FLAT USS PLATED 1/2 GD8	29
5	030592	WASHER- LOC, SPLT PLTD 1/2 GR8	23
6	030596	NUT- PLATED, 1/2-13	14
7	032566	HEX NUT .5000-13-D-C	4
8	332397	PLATE-SPACER ADJUST, WLDMT	1
9	033151	SCR- HX HD 1/2-13 X 1-1/2 GR8	11
10	336417	TRANSITION SUPPORT	1
11	336574	INLET TUBE CONNECTION	1
12	033232	SCR-HX HD CAP,1/2-13X3-1/2 PL	4
13	337108	FAN VIBRATION MOUNT	4
14	023687	WASHER FLAT SAE PLATED 1/2 GR8	4

FAN HOUSING ASSY



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
REF	334674	FAN HOUSING ASSY	REV A
1	334645	BLOWER HOUSING WELDMENT	1
2	335018	FAN INLET	1
4	334675	INSPECTION COVER	1
5	305400	SCR-HX HD,PLT,1/2-13X2-1/2 GR8	1
6	334637	FAN AND MOTOR ASSEMBLY	1
7	334499	SEAL AIR HOOD	1
8	334677	FAN TRANSITION RING	1
9	039809	SCR-HX HD,PLTD,3/8-16X7/8 GR8	48
10	030557	WASHER FL USS YELLOW 3/8 GD8	62
11	900020	BOLT,CARRIAGE,ROUND HEAD,5/16-18-UNC x 1 " LG.	4
12	334716	REAR SEAL SUPPORT WELDMENT	1
13	334717	SIDE SEAL SUPPORT WELDMENT	1
14	334715	FRONT SEAL SUPPORT WLDMT	1
15	334724	BRACE INSPECTION DOOR	1
16	030489	WASHER FLAT USS PLTD 5/16 GR8	4
17	030373	WASHER- LOC SPLIT PLT 5/16 GR8	10
18	030617	NUT-PLATED 5/16-18 GR8	4
19	030599	NUT- PLATED, 3/8-16 GR8	12
21	651420	WASHER FLAT SAE 5/16 ID	6
22	031433	SCR- HX HD PLTD 5/16-18X1 GR8	6
23	337353	SEAL-SUPPORT (RH) SIDE, WLDMT	1
24	337222	ACCESS SCROLL LINER	1
25	308739	LINER SCROLL	2
26	337219	EXIT BLOWER, WELDMENT	1
27	337142	TOP LINER SCROLL	1



NOTE 1:

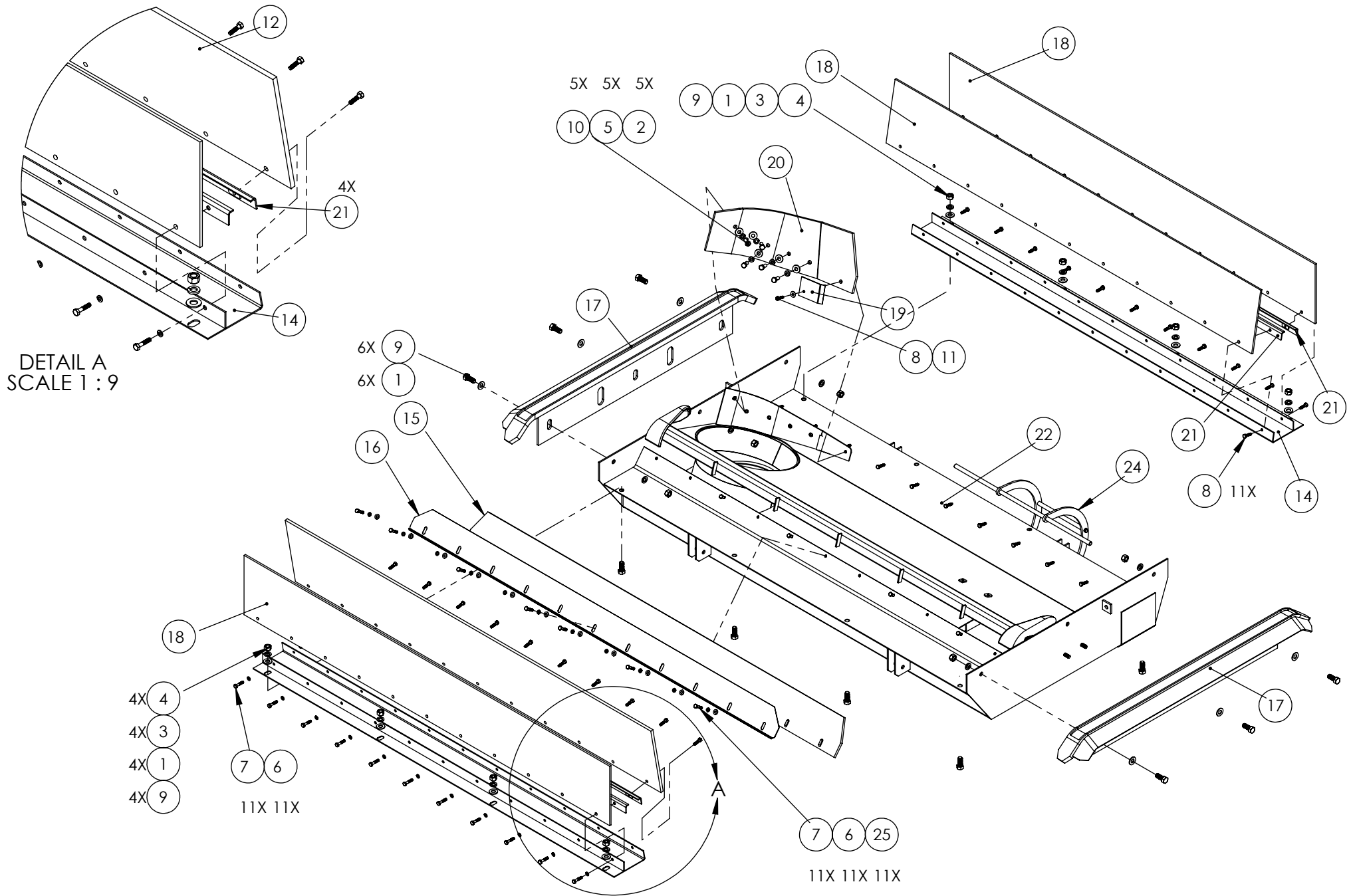
- 1. ITEMS INCLUDED IN FAN KIT
- 2. AFTER ASSEMBLY TORQUE BOLTS TO 348 IN-LBS (DRY)
- 3. USE SS SAFETY WIRE ON BOLT HEADS
(WIRE SHOULD APPLY TENSION TO TORQUE BOLTS)

NOTE 2:

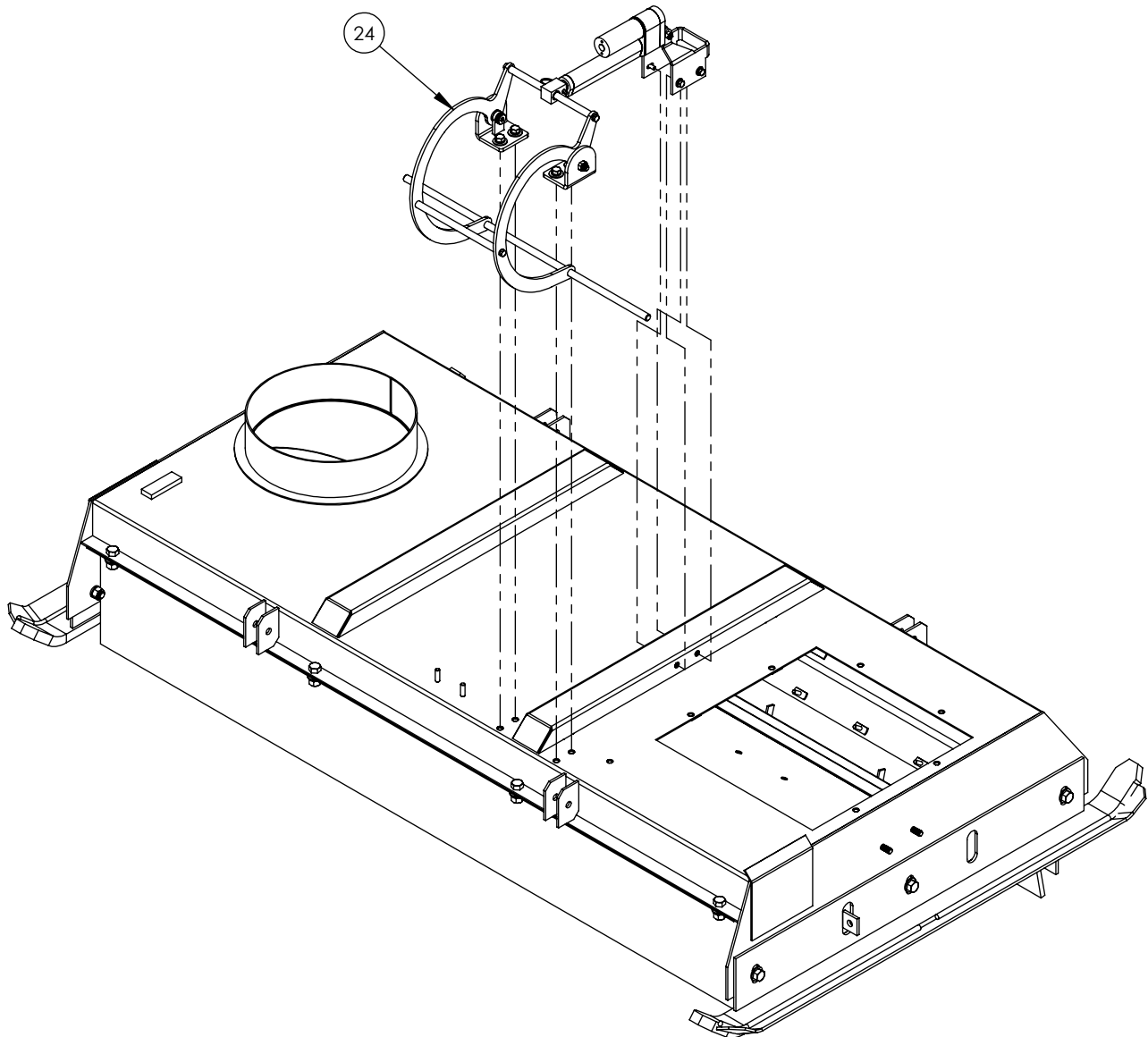
- USE NLGI #1OR #2 SYNTHETIC GREASE
- 4. 4 oz (MIN) and 8.6 oz (MAX) [BEARING IS DRY FROM FACTORY]

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
REF	334637	FAN AND MOTOR ASSEMBLY	REV A
1	333263	FAN HOUSING BACKPLATE WLDMNT	1
2	334324	SUNFAB BLOWER MOTOR	1
3	333299	ZERO MAX BEARING	1
4	331931	MANIFOLD, ANTI-CAVITY VALVE	1
5	334814	HALF-SPLIT FLANGE 3/4" (CODE 62)	2
6	334816	CAP SCR 1/2-20, 7-1/2 LONG	4
7	334817	1/2-20 NYLOCK NUT	4
8	334818	1/2 NORD LOCK WASHER	4
9	334819	FL HEX CAP SCR 1/2-13, 1" LG	4
10	333298	IMPELLER WELDMENT	1
11	334815	SCKT HD SCR M10 X 1.5, 85mm LG	8
12	460-11	WASHER, SPRING LOCK, Ø M10	8
17	337135	16FLH90L-12FLH90M-23.5	1
18	337136	16FLH90L-12FLH90M-24.375	1
19	337363	LOOP FLUSH ORIFACE	1

VACUUM HOOD ASSEMBLY



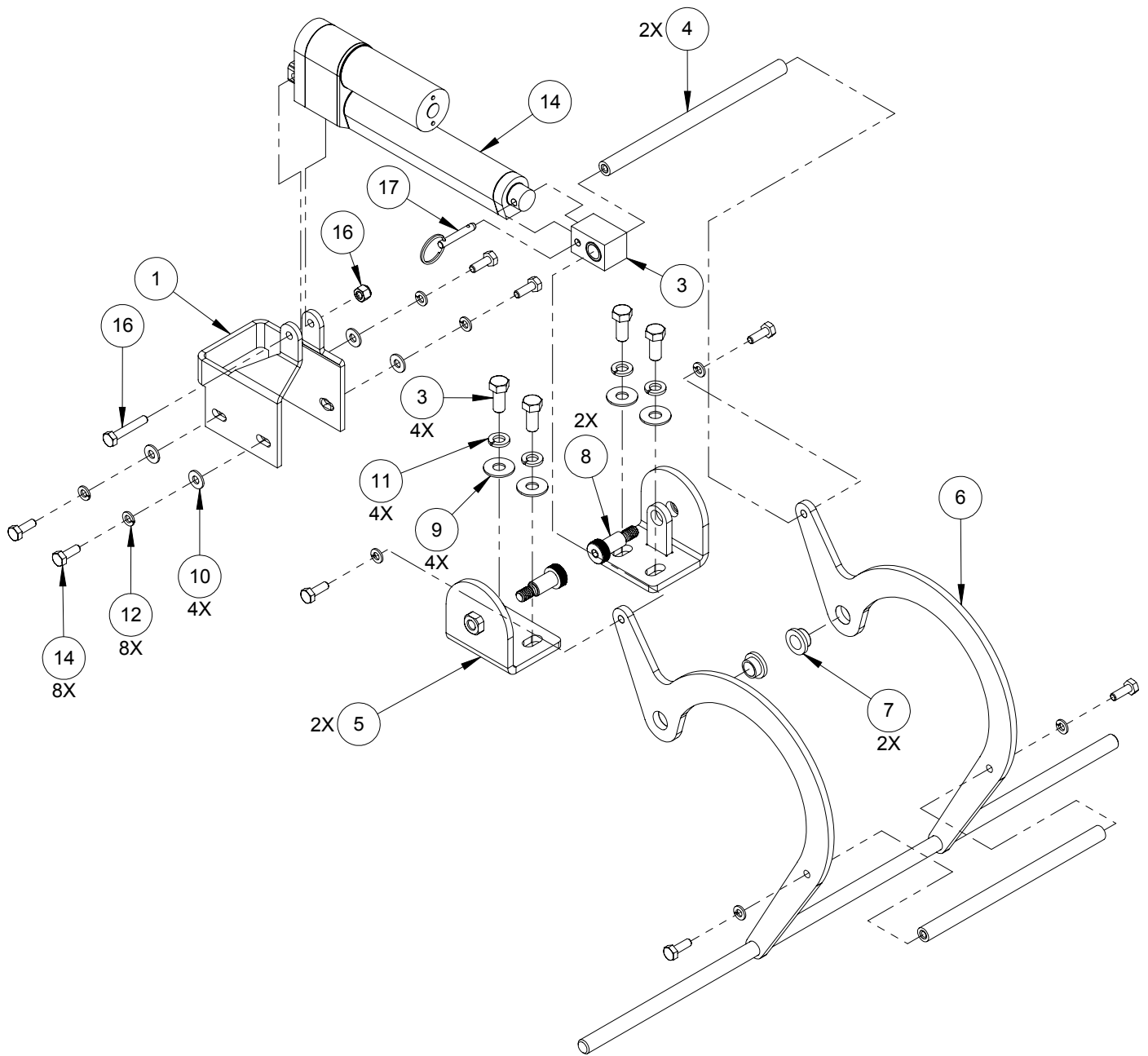
SEE DWG 182158 FOR ASSEMBLY INSRTUCTIONS



VACUUM HOOD ASSEMBLY



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
REF	332563	VACUUM HOOD ASSEMBLY	REV C
1	023687	WASHER FLAT SAE PLATED 1/2" ID	14
2	030557	WASHER FLAT USS PLATED 3/8	5
3	030592	WASHER,SPRING LOCK,Ø 1/2"	14
4	030596	NUT, HEX, 1/2-13-UNC	14
5	030605	WASHER-LOCK,SPLIT,PLATED,3/8 GR8	5
6	030643	WASHER,SPRING LOCK,Ø 1/4"	22
7	031343	SCR-HX HD,1/4-20X1-1/4 GR8	22
8	033125	BOLT,HEX,HEAD,Ø 1/4-20-UNC x 1"LG,GR.8,GOLD ZINC	34
9	033150	BOLT,HEX,HEAD,1/2-13-UNC x 1 1/4"LG	14
10	034423	SCR HX HD 3/8-16X1 GR 8	5
11	035605	Washer, Flat, USS Pltd 1/4	1
12	337572	FLAP-REAR-INNER	1
14	304848	WELDMENT, FLAP BRAKET	2
15	337876	FLAP - BLAST CONTROL	1
16	337844	FLAP-BLAST CONTROL	1
17	305025	SKATE WELDMENT	2
18	335088	HOOD FRONT FLAP	3
19	309658	RECTANGULAR BEND	1
20	314255	Outlet Flap	1
21	314710	ANGLE RETAINER - WLDMNT	4
22	337213	VACUUM HOOD, WELDMENT	1
24	182158	FLAP LIFT MECHANISM ASSY	1
25	609606	WASHER,FLAT,Ø 1/4",SAE NARROW	11



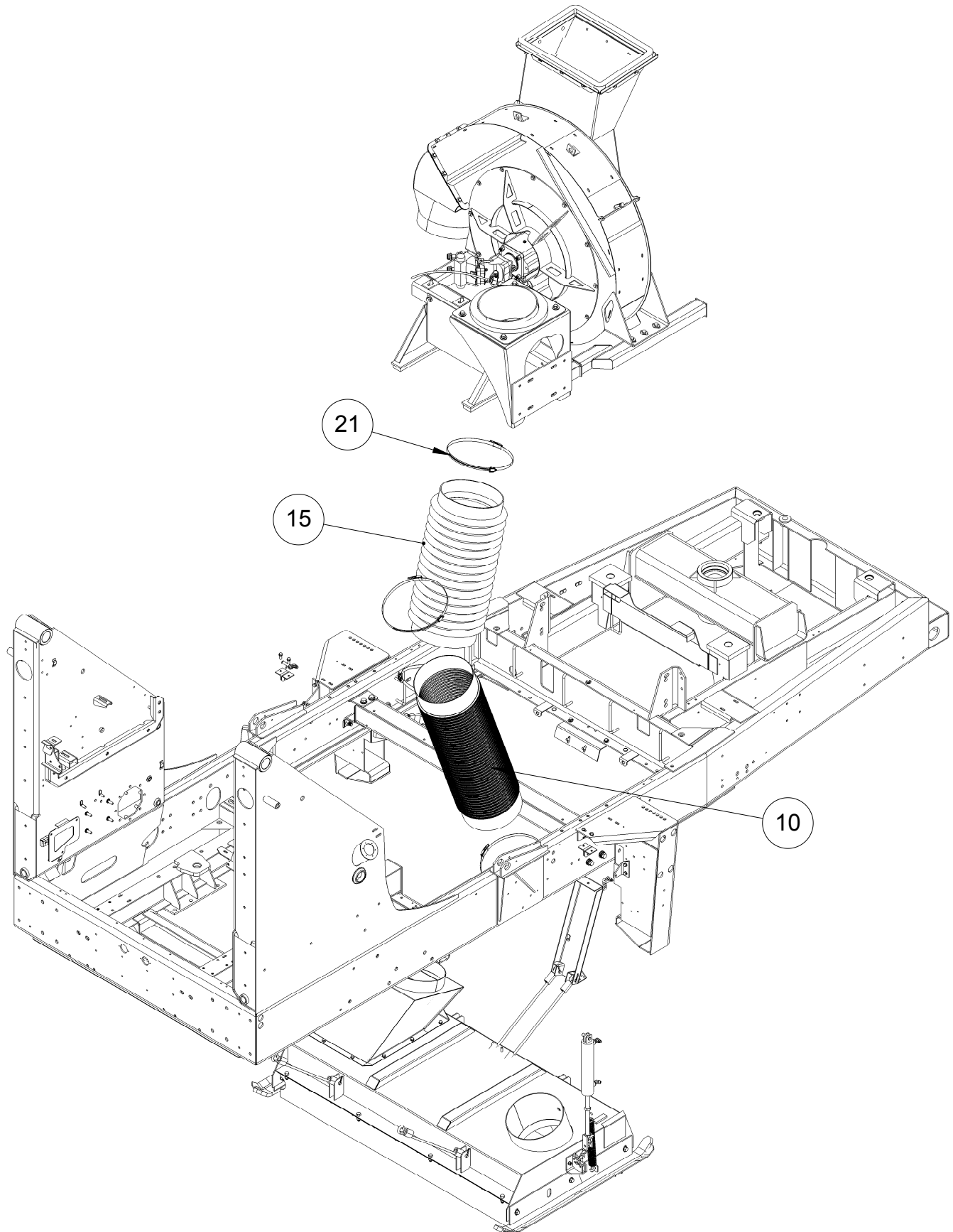
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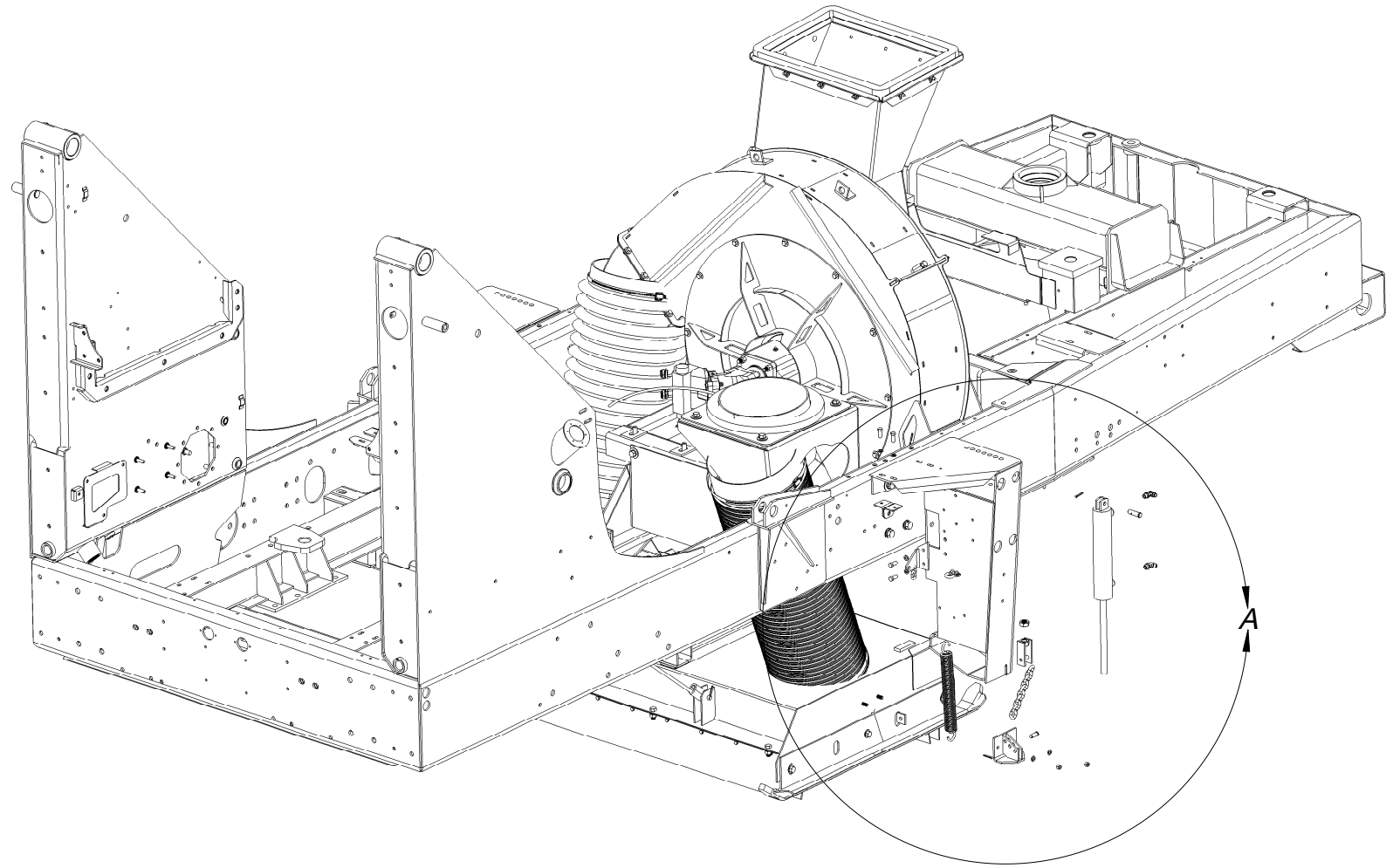
- 1) APPLY GREASE TO ITEMS 15 & 17
- 2) DO NOT APPLY GREASE TO ITEMS 3 & 7

FLAP LIFT MECHANISM ASSY

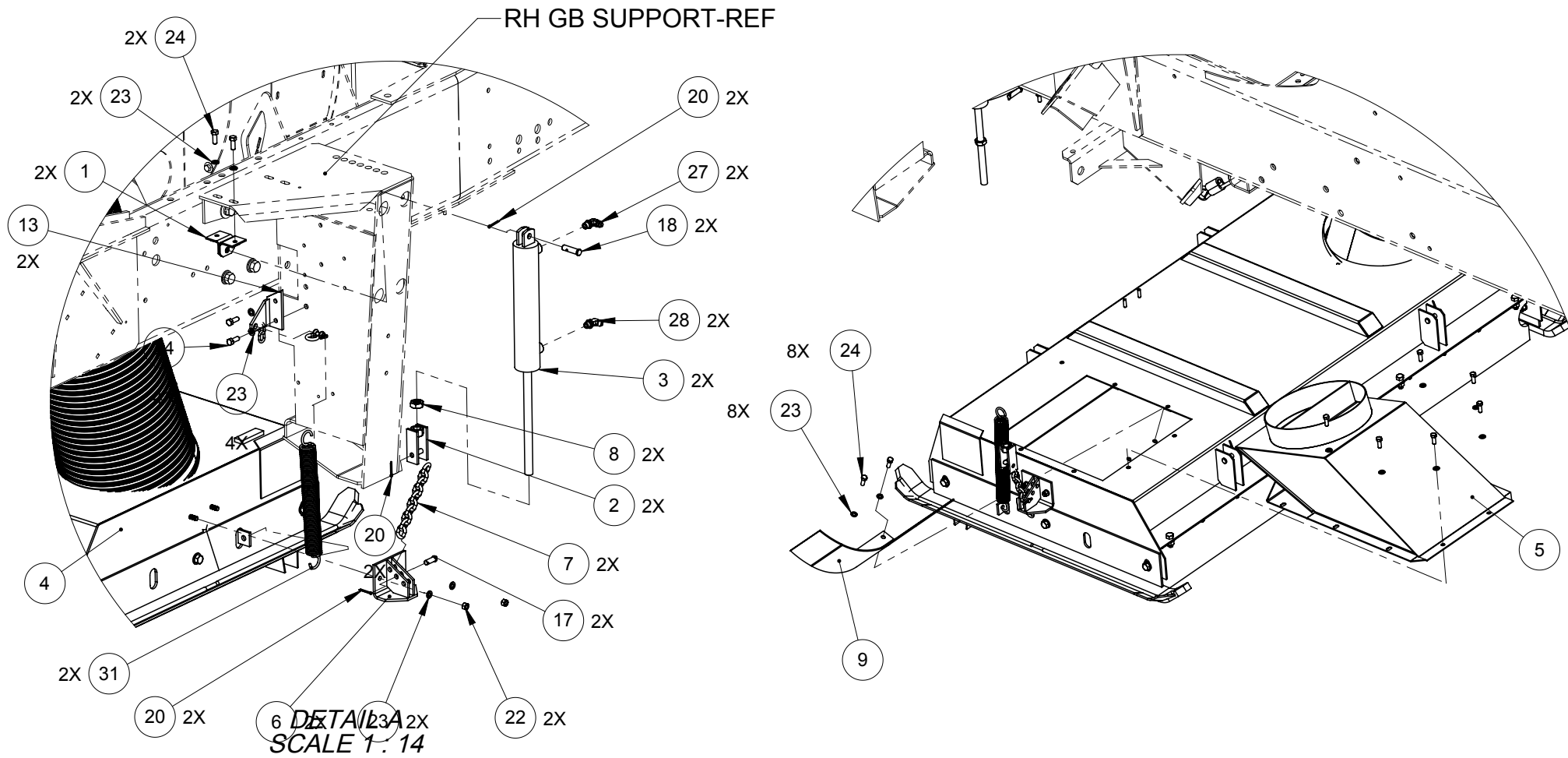


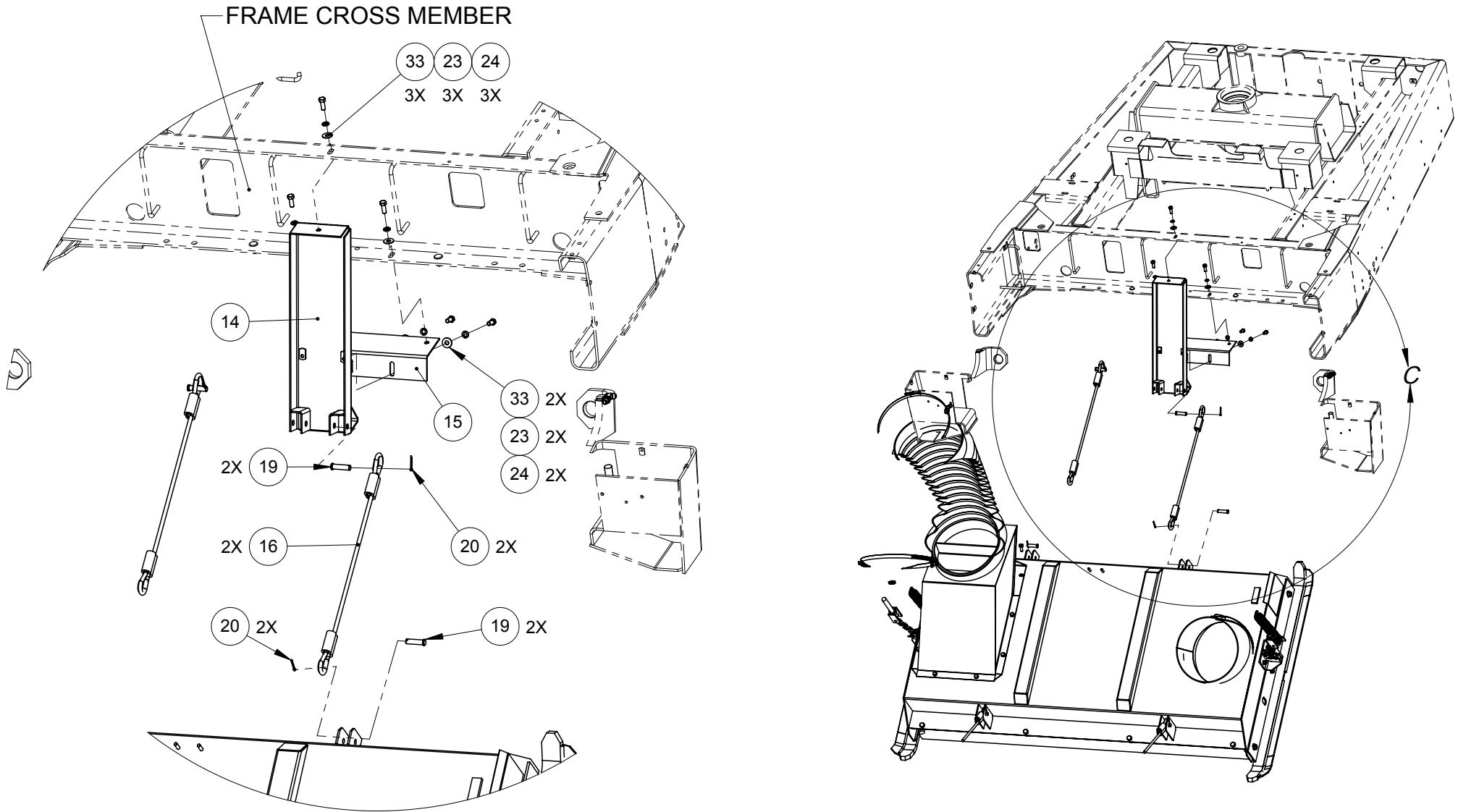
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
REF	182158	FLAP LIFT MECHANISM ASSY	REV 1
1	182168	ACTUATOR MOUNT PLATE	1
3	182162	CLEVIS BLOCK ASSY	1
4	182169	ROD, 1/2" OD X 8" LG	2
5	182159	PIVOT WLDMNT	2
6	182165	LEVER ARM WLDMNT	1
7	182147	BEARING, FLANGE, .501"ID X .627"OD	2
8	182171	SHLDR SRW, 1/2" DIA X 7/8" LG, 3/8"-16 THRD	2
9	038266	WASHER FLAT SAE PLATED 3/8	4
10	609606	WASHER FLAT SAE PLATED 1/4 GR8	4
11	030605	WASHER- LOC,SPLIT,PLTD,3/8 GR8	4
12	030643	WASHER- LOC SPLIT PLTD 1/4 GR8	8
14	332516	ACTUATOR_4" STROKE	1
14	033145	SCR- HX HD PLTD 1/4-20X3/4 GR8	8
16	023802	SCR- HX HD CP 1/4-20 X 1 1/2	1
16	612667	NUT,HEX,NYLON LOCK,1/4-20-UNC	1
17	182175	QUICK RELEASE PIN, 6mm DIA X 25mm LG	1



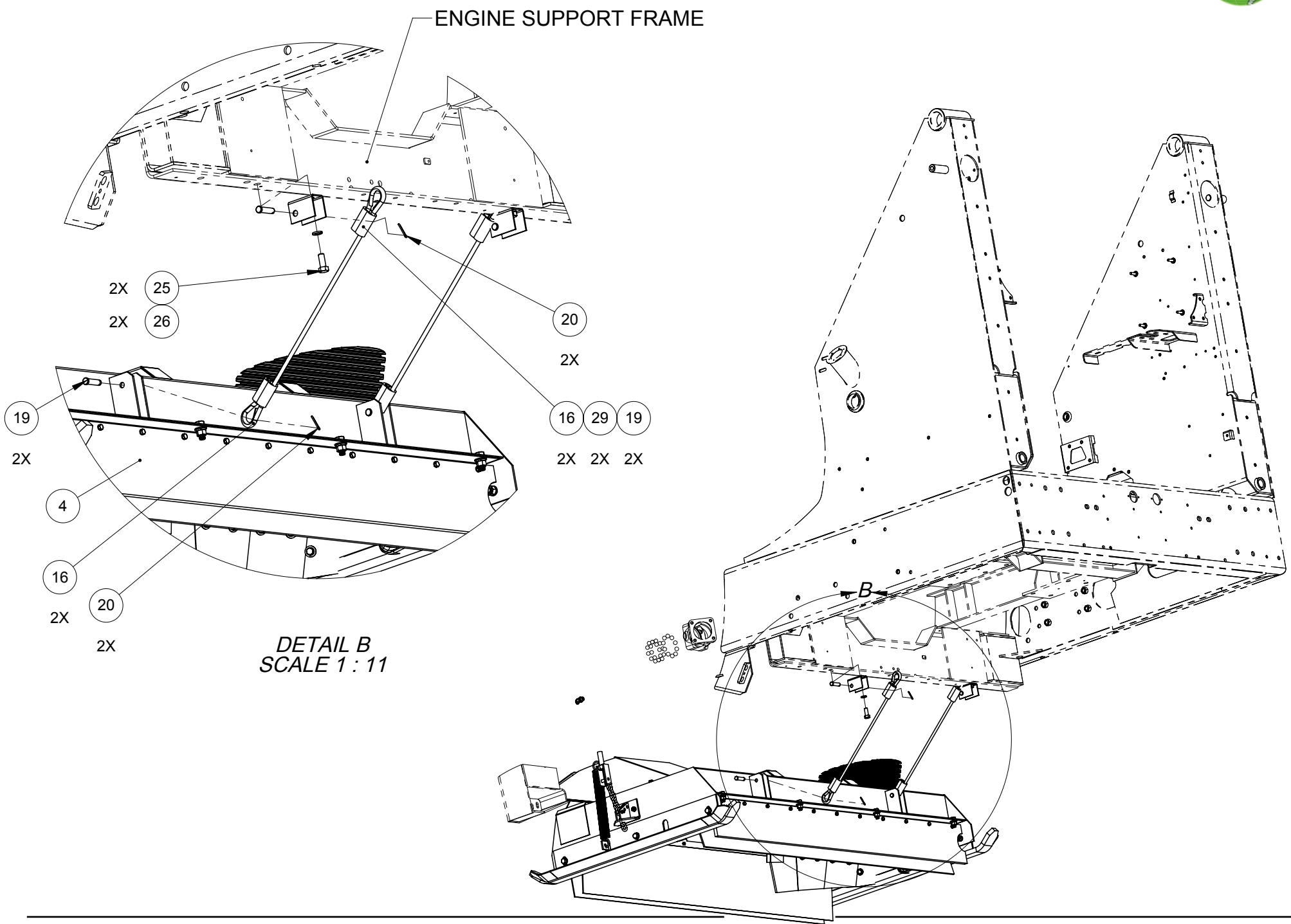


VACUUM HOOD INSTALLATION





VACUUM HOOD INSTALLATION





VACUUM HOOD INSTALLATION

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
REF	332562	VACUUM HOOD INSTALLATION	REV 1
1	319481	BRACKET-PUB CYLINDER	2
2	305326	CLEVIS WELDMENT	2
3	304267	HYDR CYL-2 X 9 X 15.37	2
4	332563	VACUUM HOOD ASSEMBLY	1
5	311098	TRANSITION HOOD, WELDMENT	1
6	306262	WLDMT- BRACKET LIFT	2
7	896663009	CHAIN - 1/4" X 7 LINKS	2
8	032018	NUT - JAM PLATED 3/4 - 10	2
9	309657	PLATE-DEFLECTOR	1
10	245023	HOSE-SUCTION	1
11	305387	HOSE-BLOWER	1
12	305123	SPRING ANCHOR, VACUUM HOOD (R.H.)	1
13	305124	SPRING ANCHOR	1
14	313892	WLDMT-CHANNEL, SUPPORT	1
15	313899	WLDMT-ANGLE, SUPPORT	1
16	305327	CABLE ASSY.	4
17	030822	0.4375-Clevis Pin X 1 1/4"	2
18	024155	0.5-Clevis Pin X 1 1/4"	2
19	033545	Clevis Pin Ø1/2 X 2 INCHES	8
20	031495	PIN COTTER PLATED, 1/8" X 1" LG.	14
21	332578	CLAMP-HOSE-QUICK RELEASE, 12" I.D.	4
22	030599	NUT, HEX, 3/8-16-UNC	4
23	030605	WASHER,SPRING LOCK,Ø 3/8"	26
24	034423	SCR-HX HD, 3/8-16X1 GR8	22
25	033150	SCR- HX HD PLTD 1/2-13 X 1-1/4	2
26	030592	WASHER- LOC, SPLT PLTD 1/2 GR8	2
27	054289	ELBOW, MB-MJ90-6	2
28	550267	FITTING,HYD,45°,MJIC-06 x MORB-06	2
29	308878		2
30	030264	SHACKLE, 1/4", W/ 5/16 SCREW PIN	3
31	305561	SPRING-EXTENSION	3
32	896663003	Chain - 1/4" X 2 Links	3
33	030557	WASHER FL USS YELLOW 3/8 GD8	5



NOTES
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CHAPTER 4

Group--Cab/Pedal/AC

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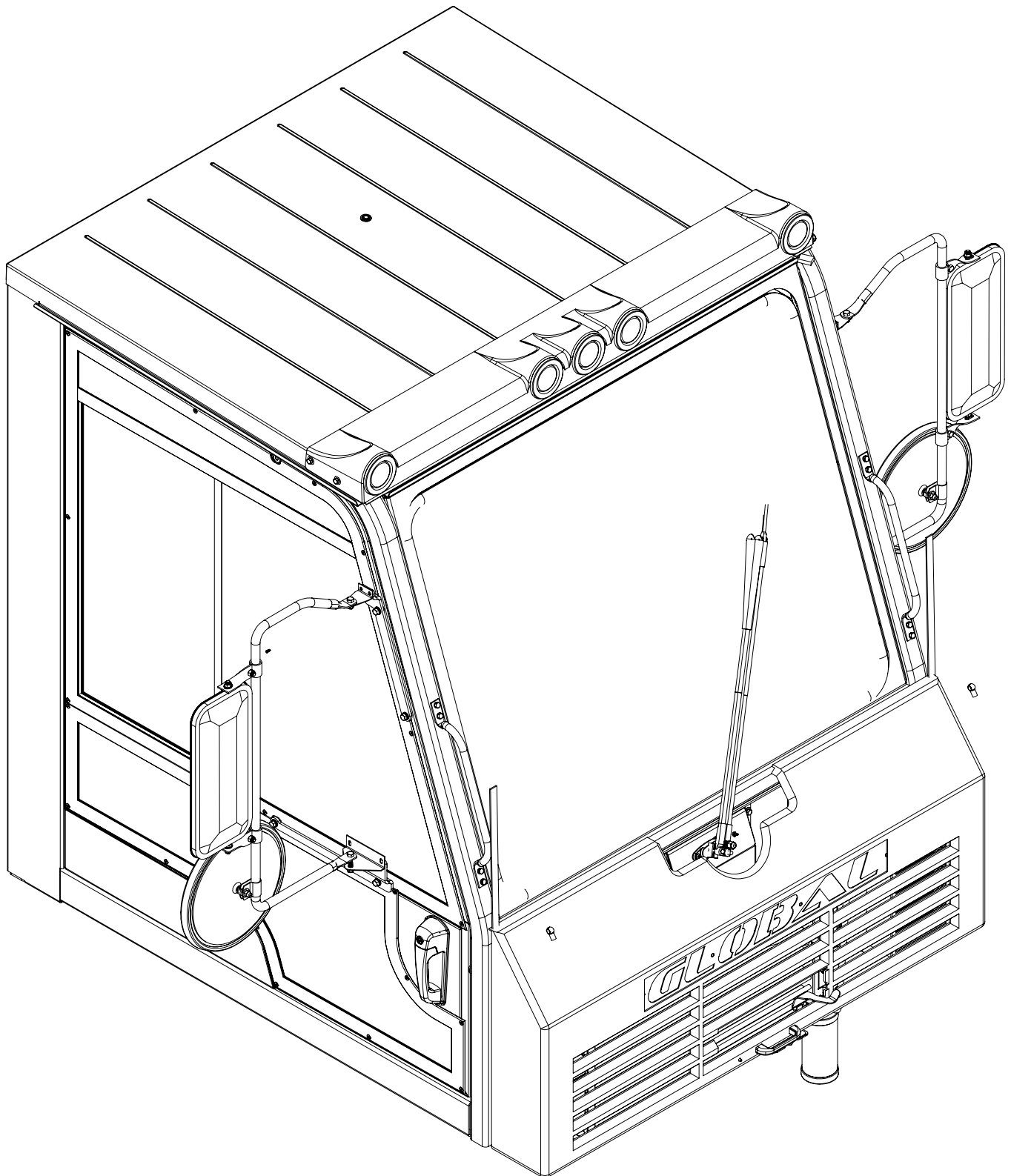
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Cab Door Assembly	4.14
Sun Visor Assembly	4.23
Wiper Motor Assembly	4.26
Steering Column Assembly	4.28
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Buddy Seat Assembly	4.35
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A/C Hose Support Installation	4.57
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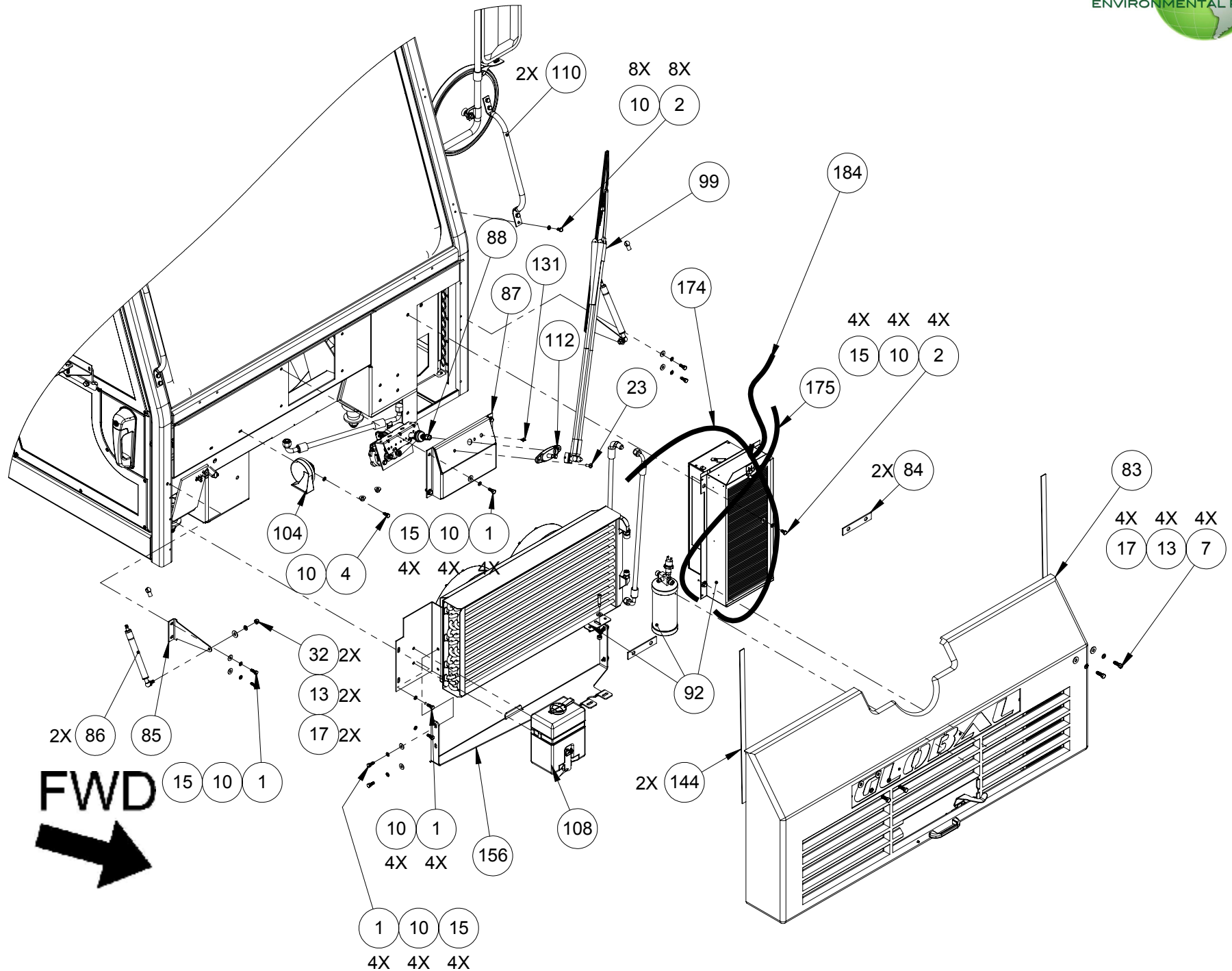
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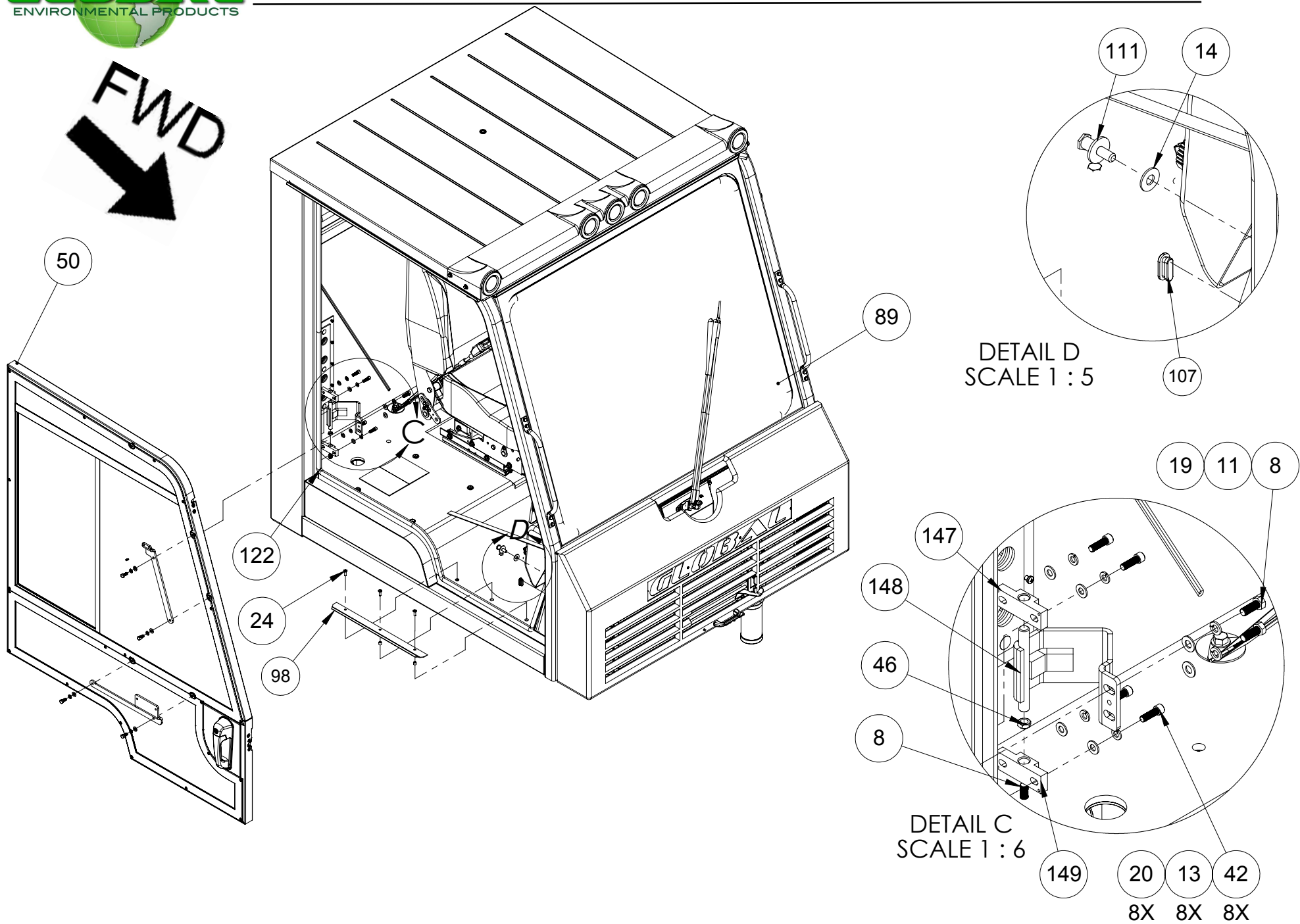


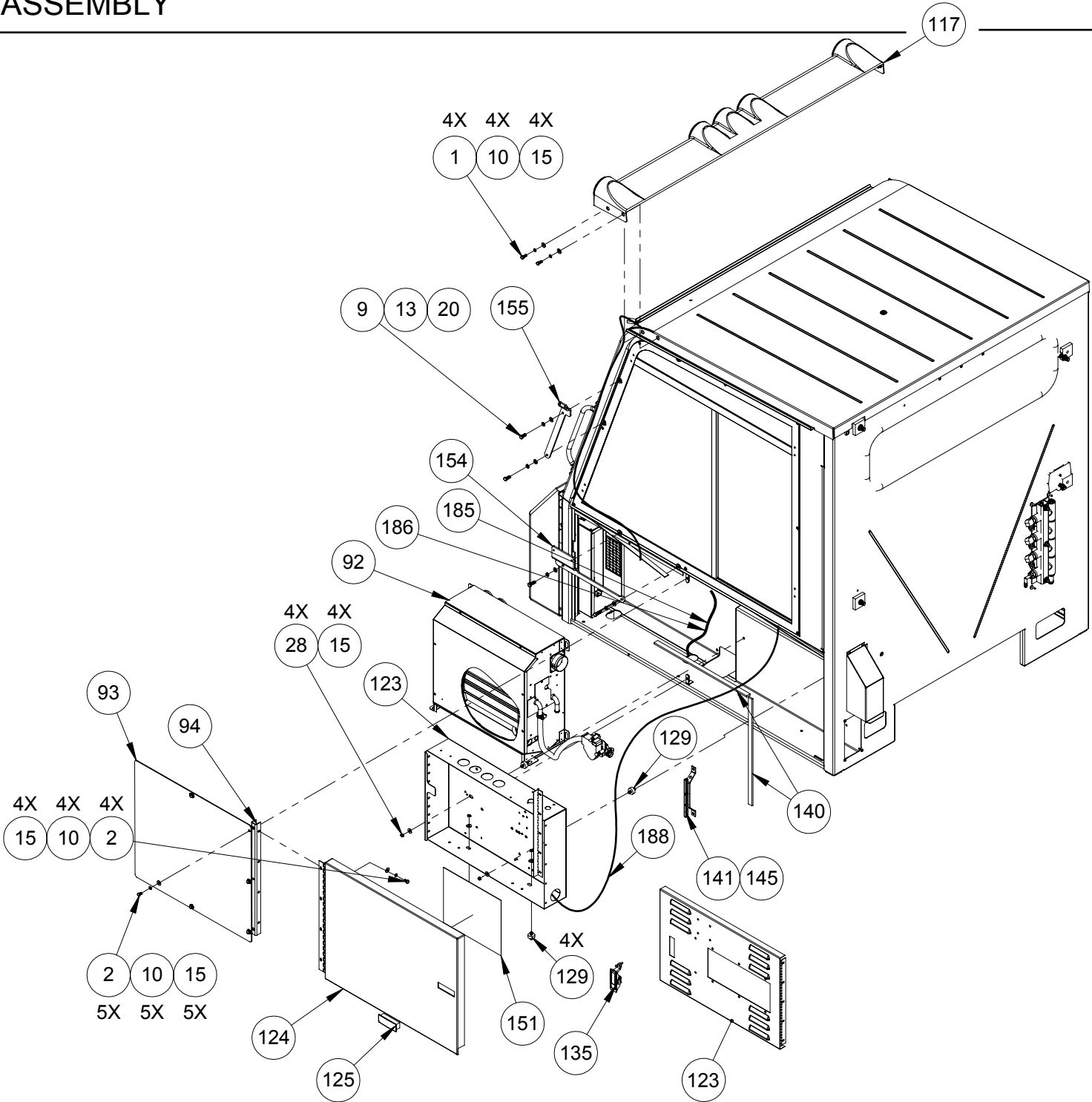
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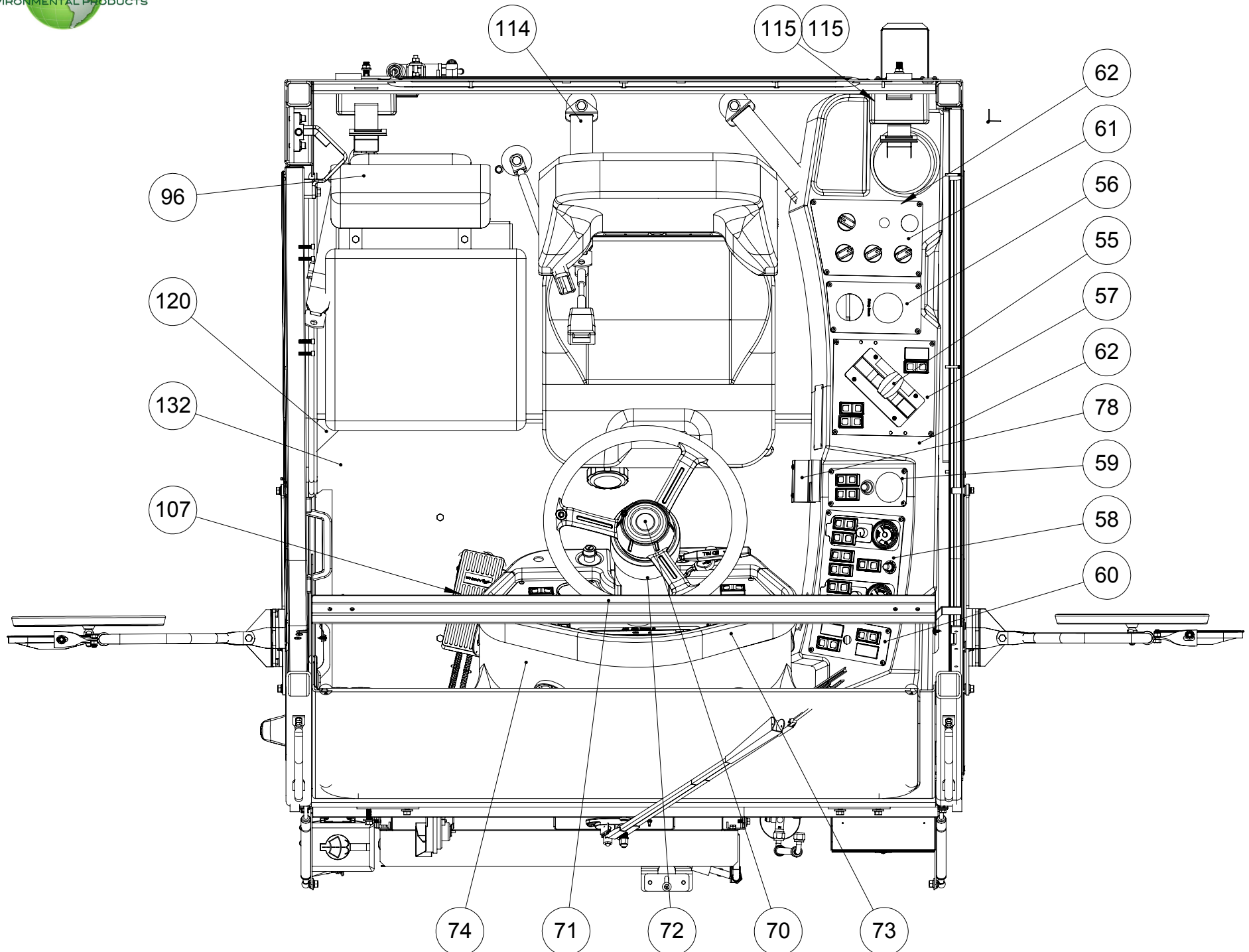
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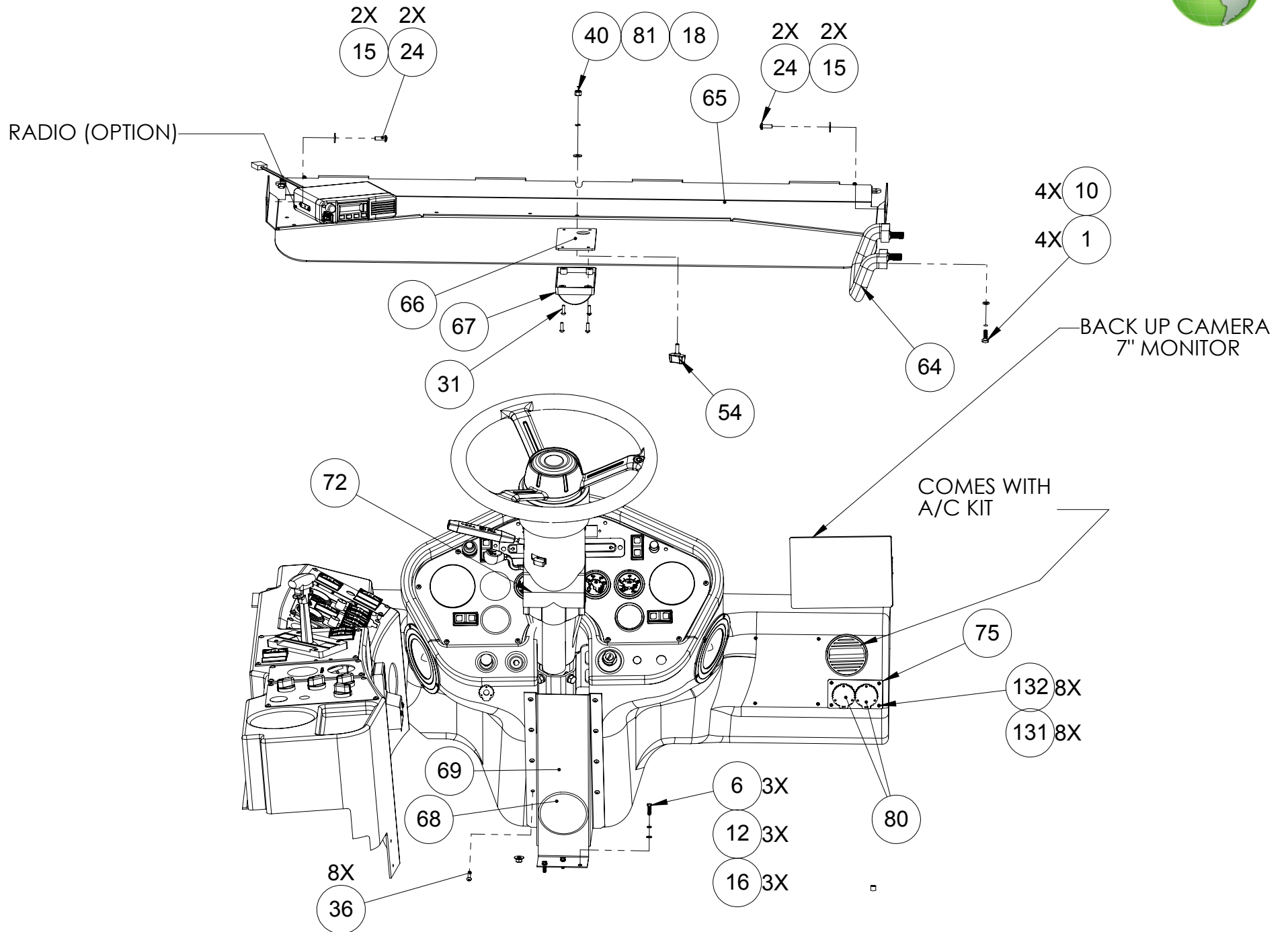












ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
REF	331499	CAB ASSEMBLY	REV 1
1	033145	BOLT,HEX,HEAD,Ø 1/4-20-UNC x 3/4"LG	26
2	031428	BOLT,HEX,HEAD,Ø 1/4-20-UNC x 1\2"LG	23
3	304720	BOLT,HEX,HEAD,3/4-10-UNC x 4"LG	4
4	026205	BOLT,HEX,HEAD,Ø 1/4-20-UNC x 5\8"LG	1
5	034423	BOLT,HEX,HEAD,3\8-16-UNC x 1" LG. GR8	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 3/4" 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

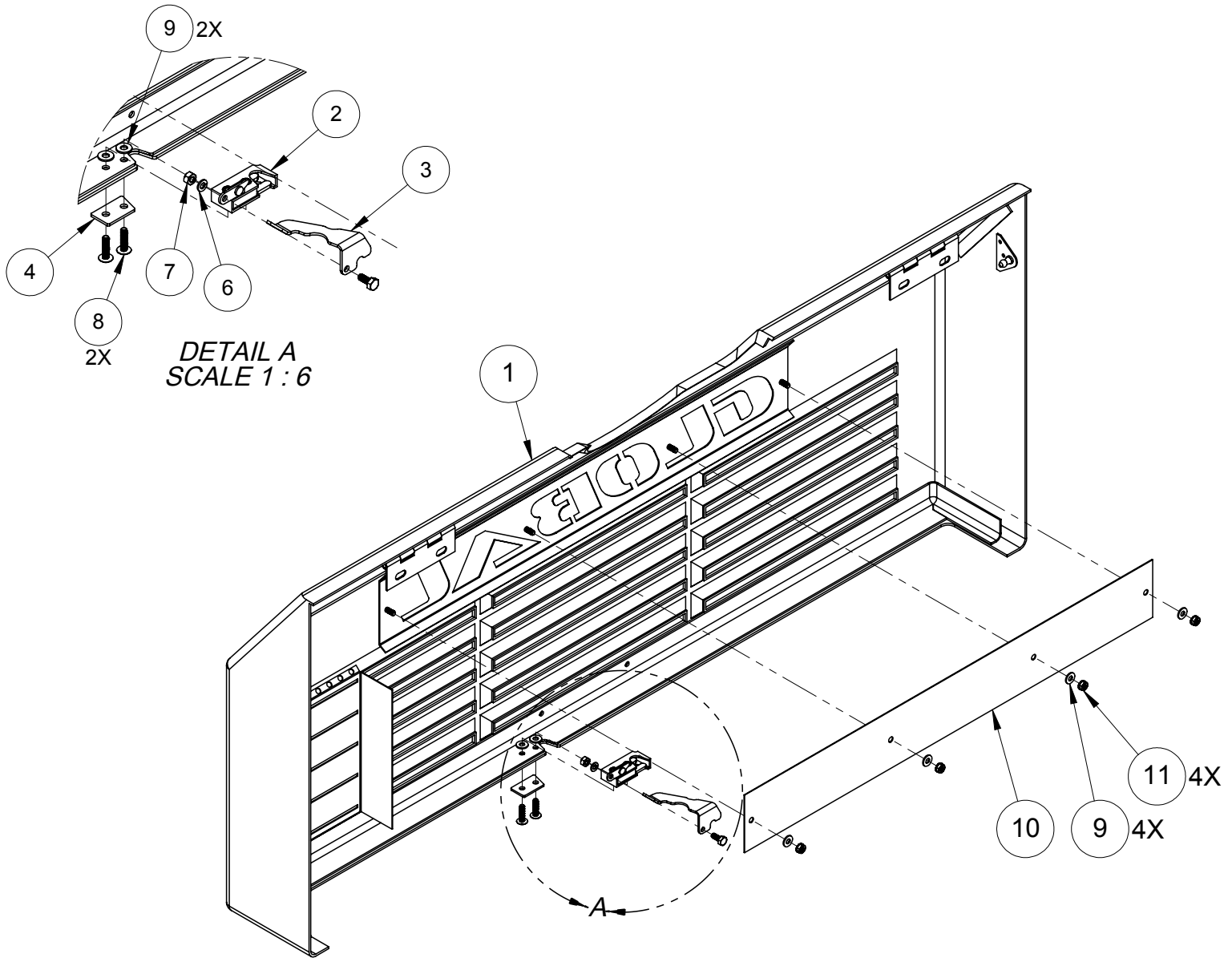


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
144	315820022	TRIM SEAL- FLEXIBLE 22.5" LG	2
145	E323652	GROUND BAR HOLDER COPPER	1
146	896853006	NON-SKID TAPE	2
147	331141	HINGE MOUNT, UPPER	2
148	331533	DOOR HINGE WLDMNT	2
149	331142	HINGE MOUNT, LOWER	2
150	323129		1
151	329726	DECAL, ECU-BOX, M4C	1
152	331358	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



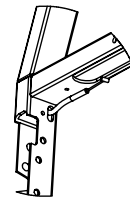
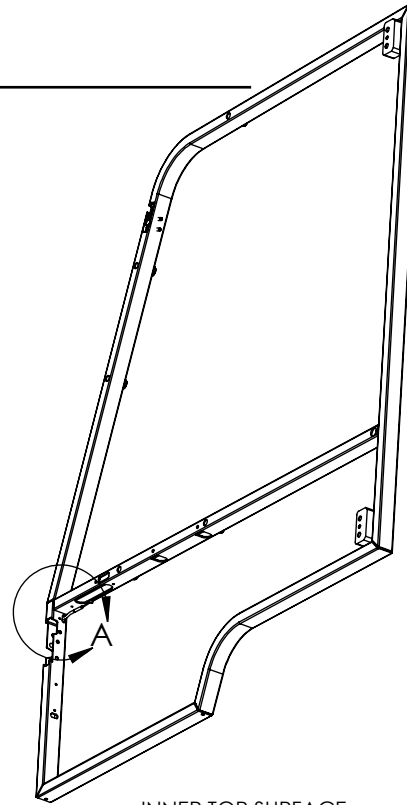
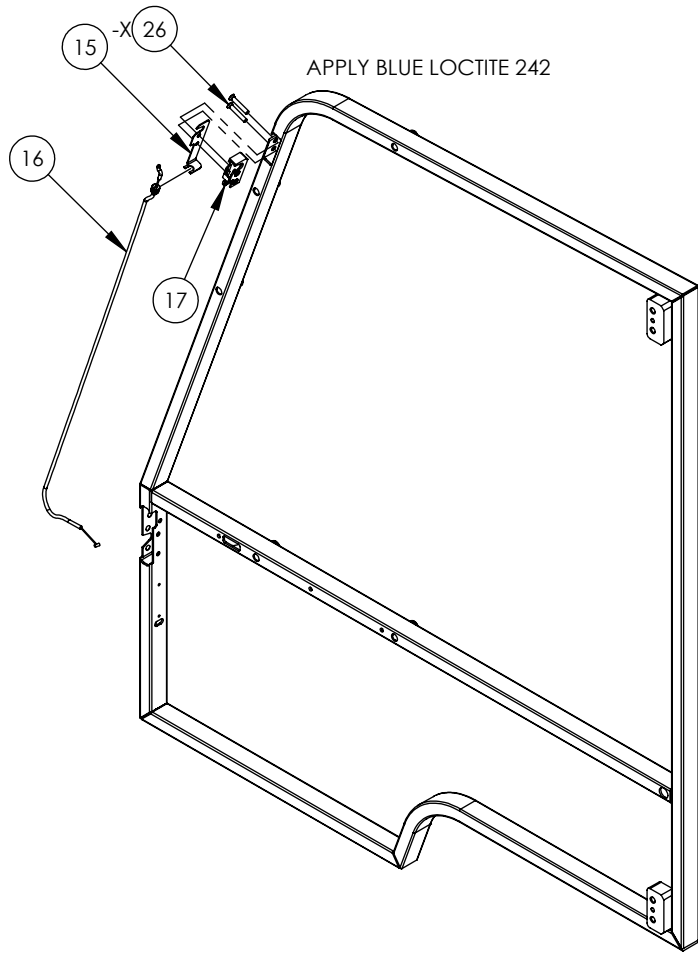
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FRONT NOSE FIBERGLASS, ASSY



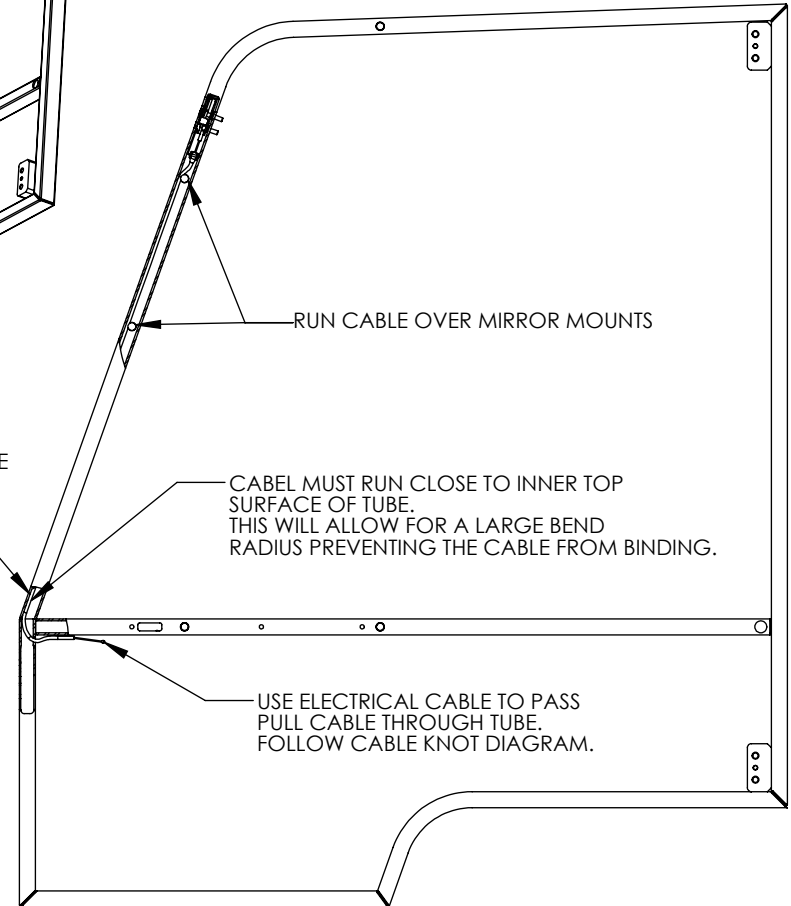
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
REF	333674	FRONT NOSE FIBERGLASS, ASSY	REV A
1	329686	FRONT NOSE, FIBERGLASS	1
2	49801	ROTARY LATCH	1
3	356947	PLATE-BENT, LATCH PULL	1
4	356952	PLATE-BOTTOM, LATCH	1
5	026205	BOLT, HEX, HEAD, Ø 1/4-20-UNC x 5/8" LG	1
6	030643	WASHER, SPRING LOCK, Ø 1/4"	1
7	030703	NUT, HEX, 1/4-20-UNC	1
8	331316	SCR-TRUSS HD, PHL, PLD, 1/4-20UNC X 1" LG.	2
9	609606	WASHER, FLAT, Ø 1/4", SAE NARROW	6
10	330505	BACKING PLATE	1
11	900105	NUT-KEPS, PLATED, 1/4-20UNC	4

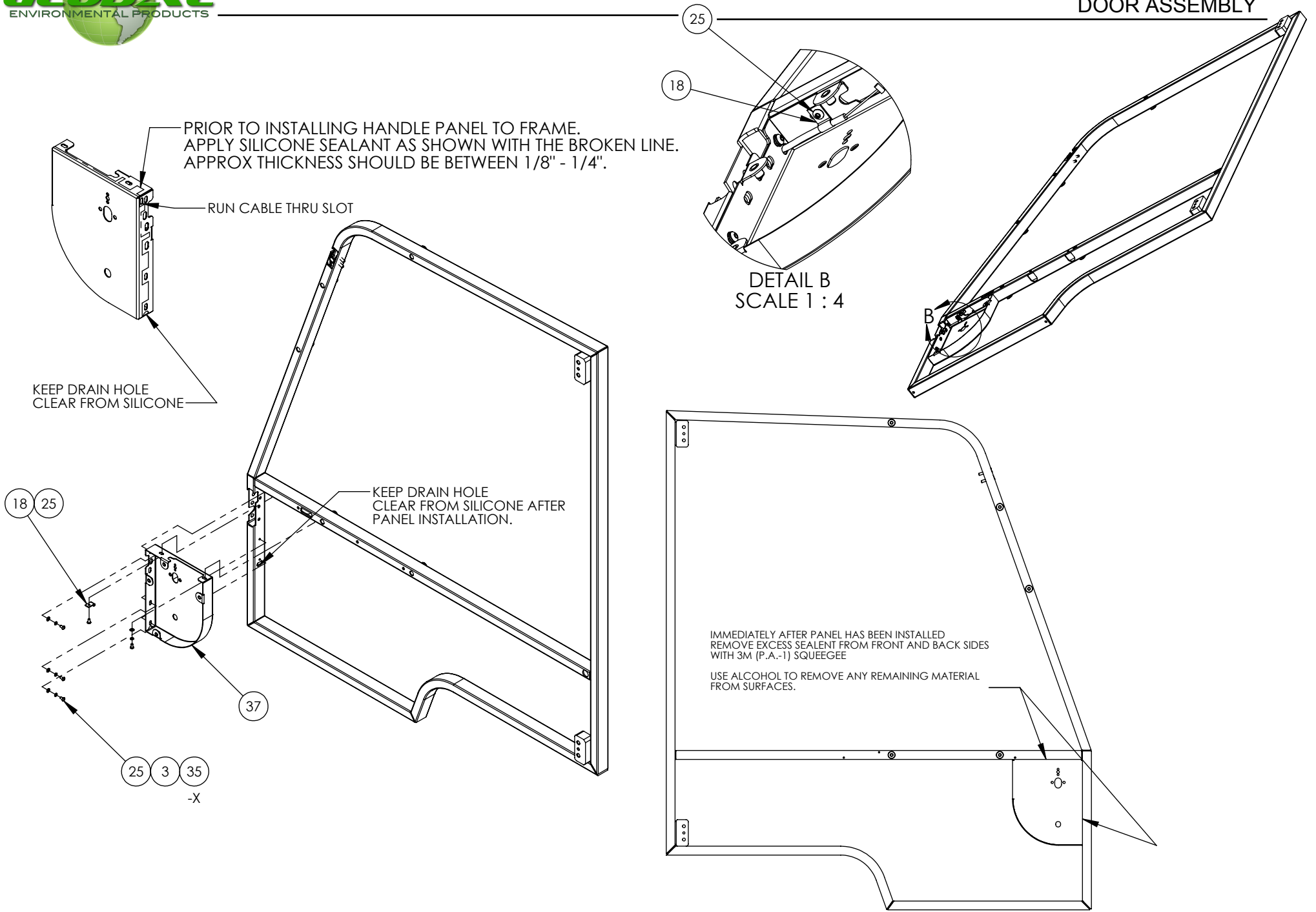
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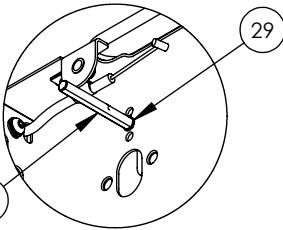
DETAIL A
SCALE 1 : 8

INNER TOP SURFACE
OF TUBE

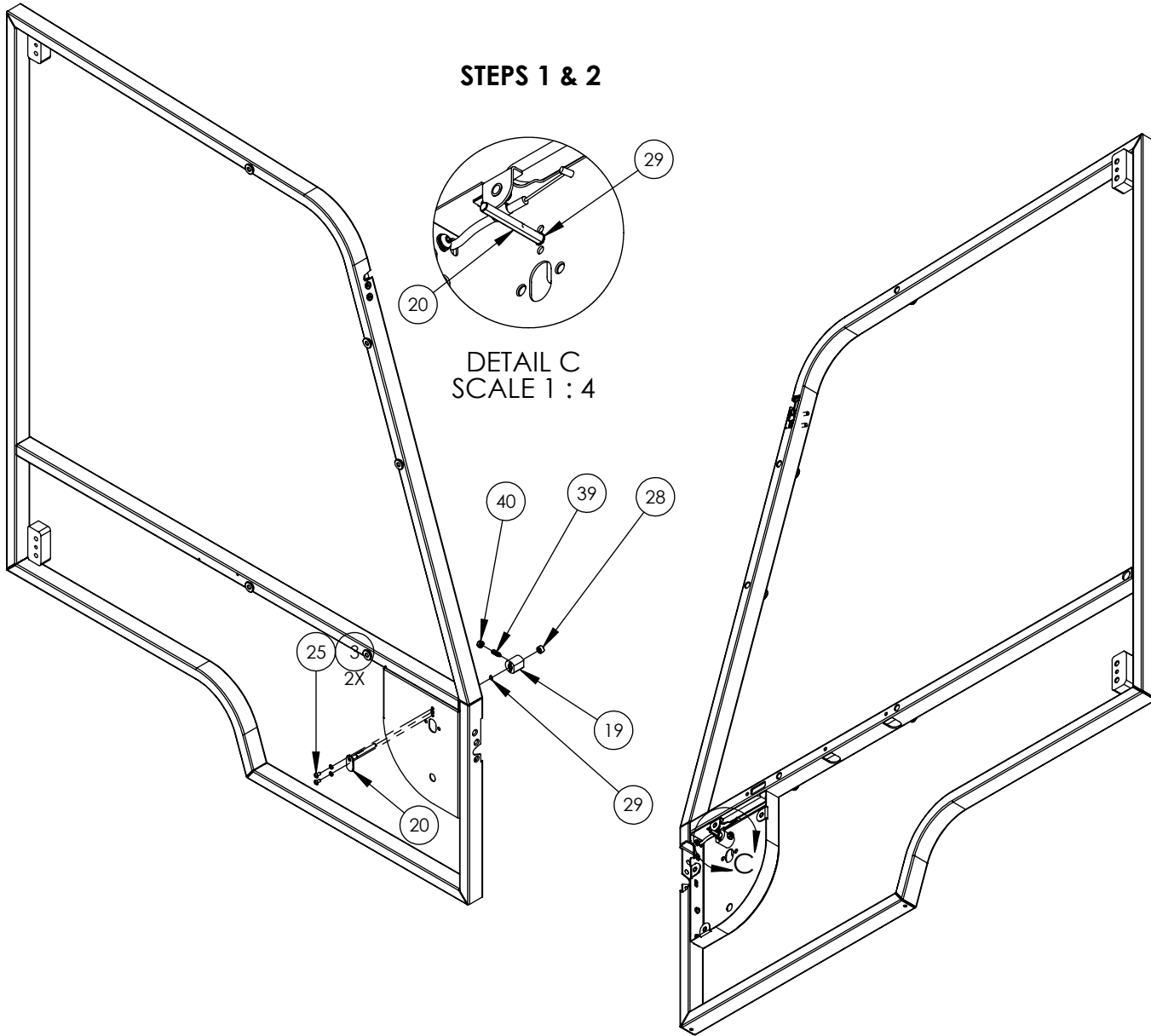




STEPS 1 & 2



DETAIL C
SCALE 1 : 4



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.

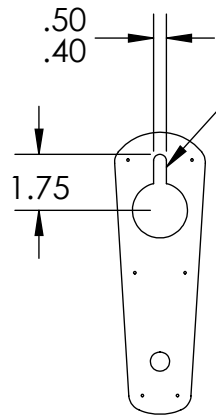
STEP 4:
INSERT ITEM 20 THROUGH ITEM 19.

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

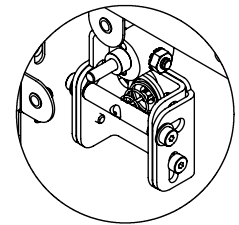
STEP 6:
CONFIRM THAT ITEM 20 IS FREE TO ROTATE.

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).

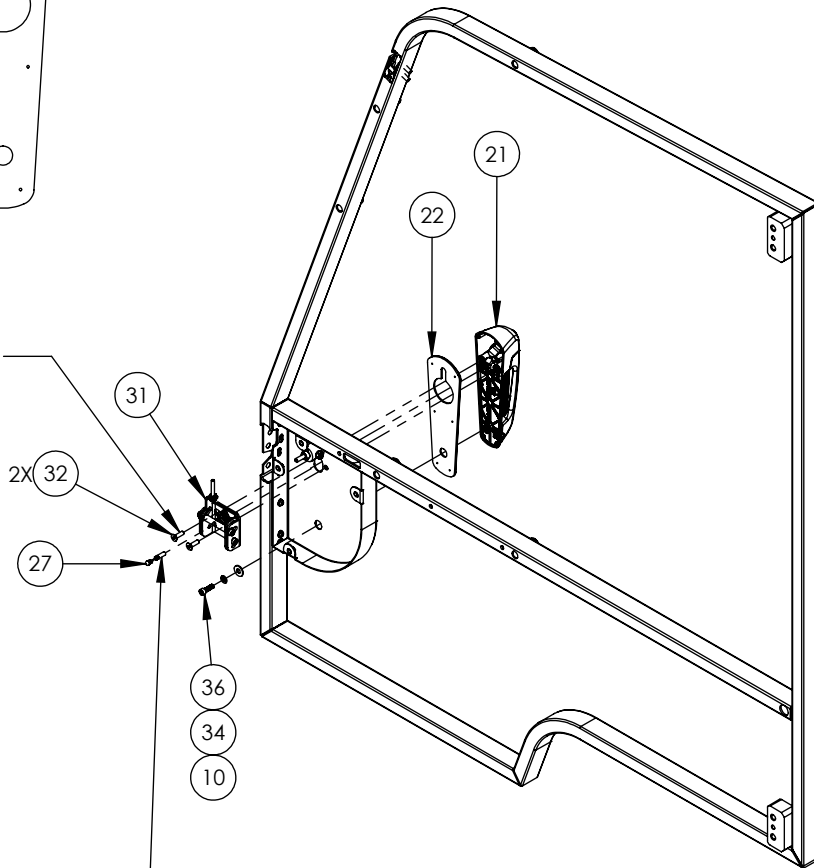


THIS SLOT NEEDS TO BE CUT OUT PRIOR TO ATTACHEING THE HANDLE.
SLOT CAN BE CUT OUT USING A RAZOR BLADE.
SLOT DOES NOT NEED TO HAVE A RADIUSUED TOP, A FLAT TOP IS OKAY.

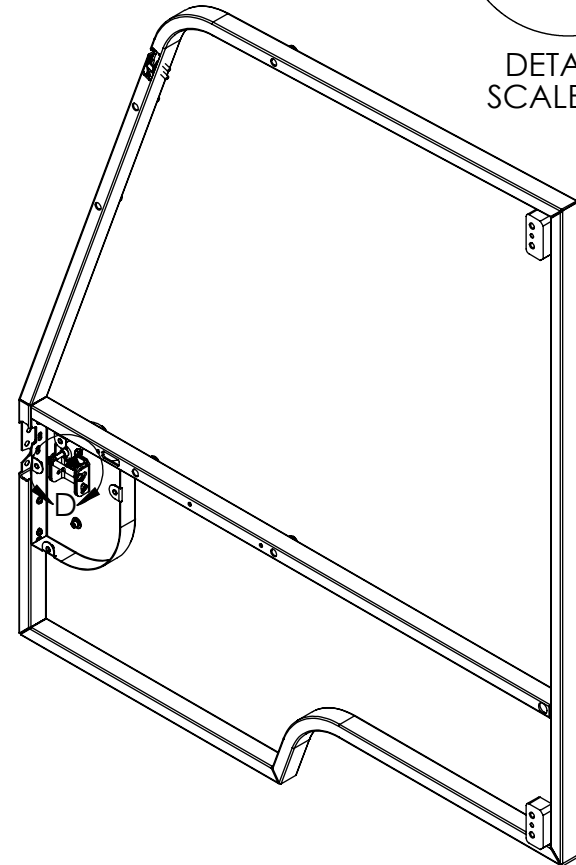


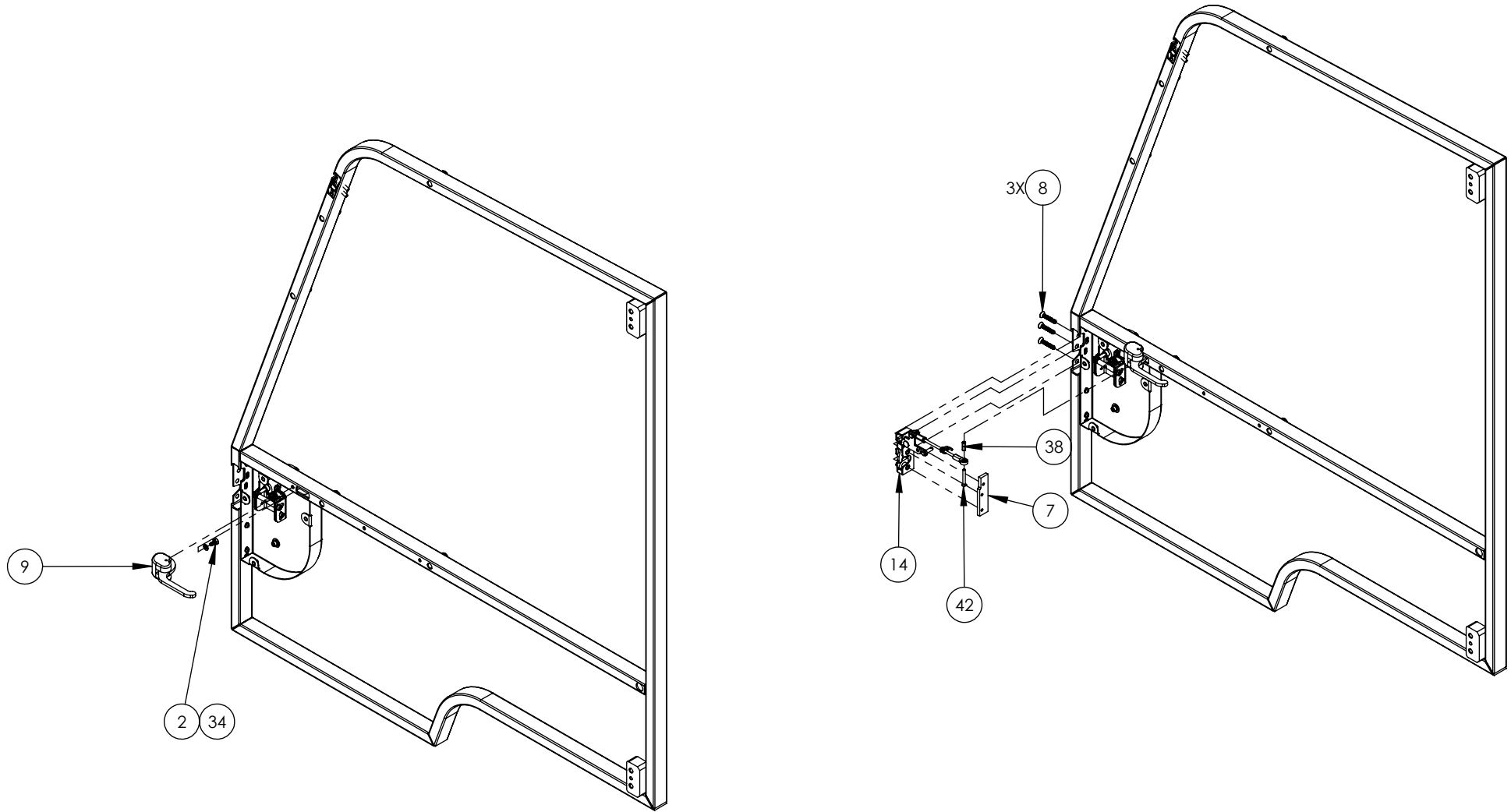
DETAIL D
SCALE 1 : 4

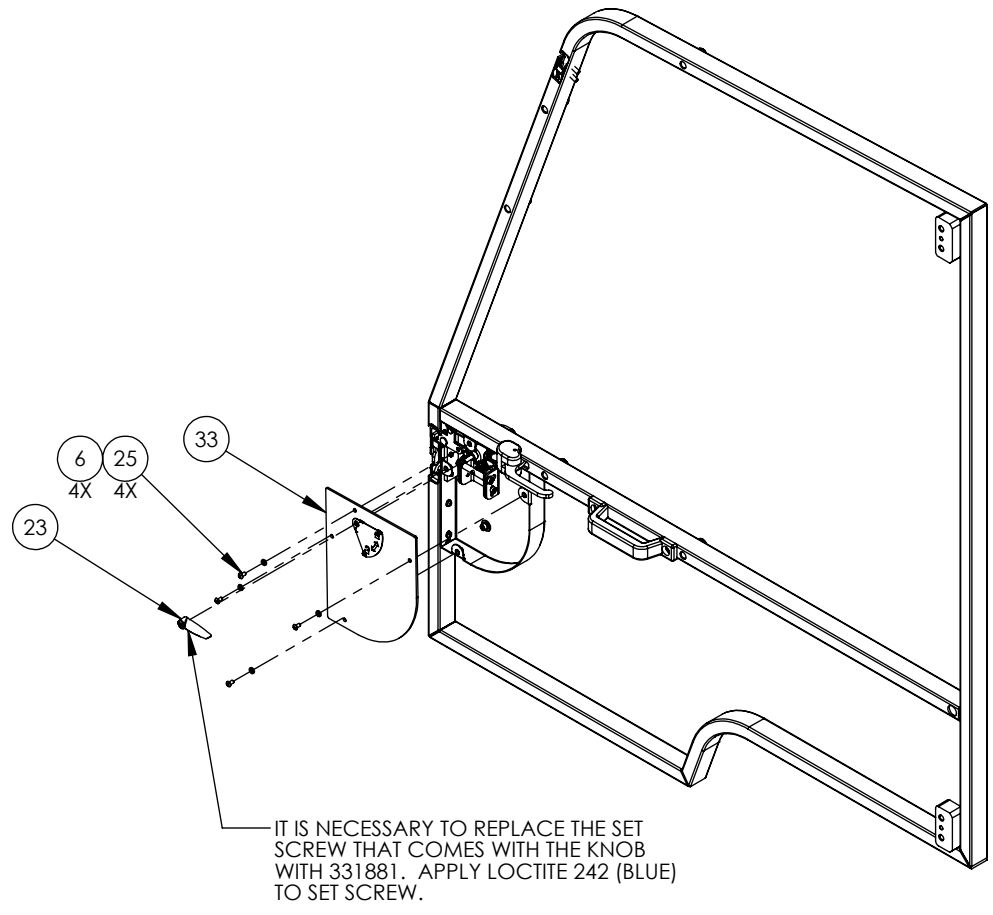
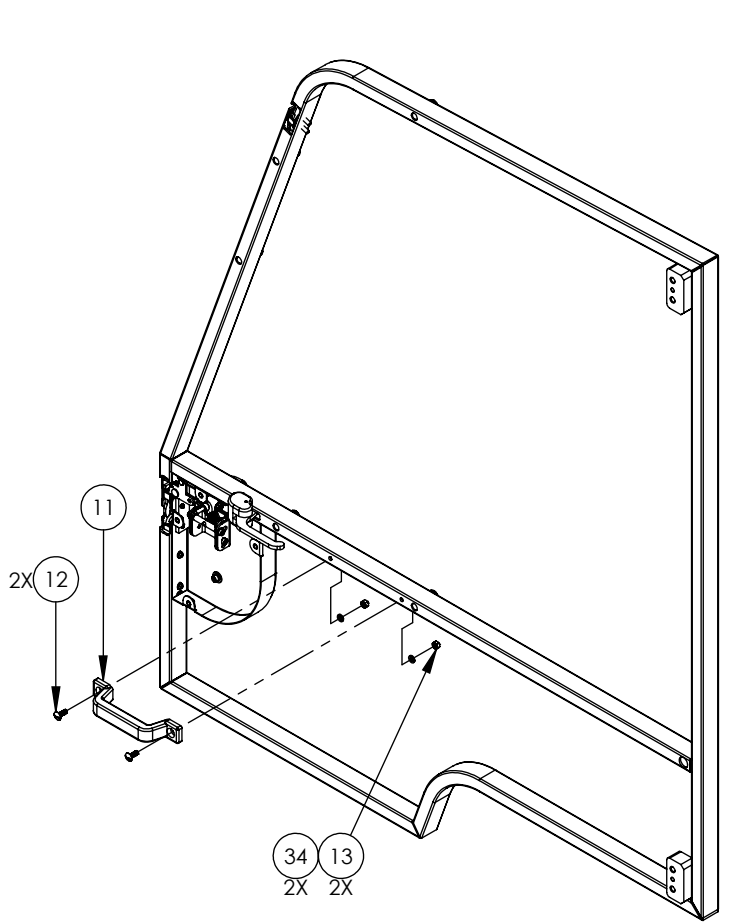
APPLY LOCTITE 242 TO THREAD

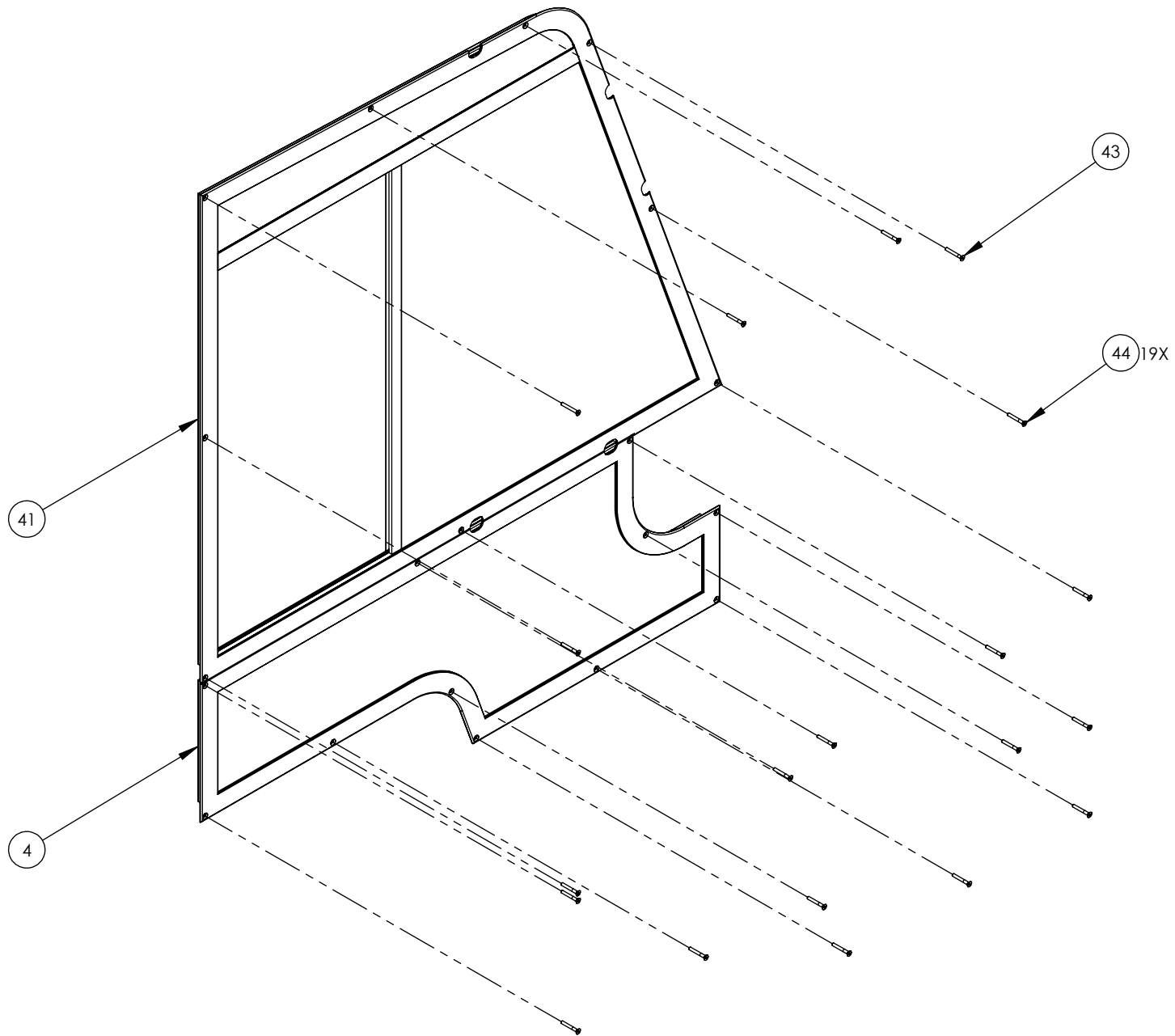


APPLY LOCTIE 242 TO THREAD
INSERT MICRO CABLE UNTIL HEAD IS BELOW SHAFT SURFACE
SEE DETAIL D







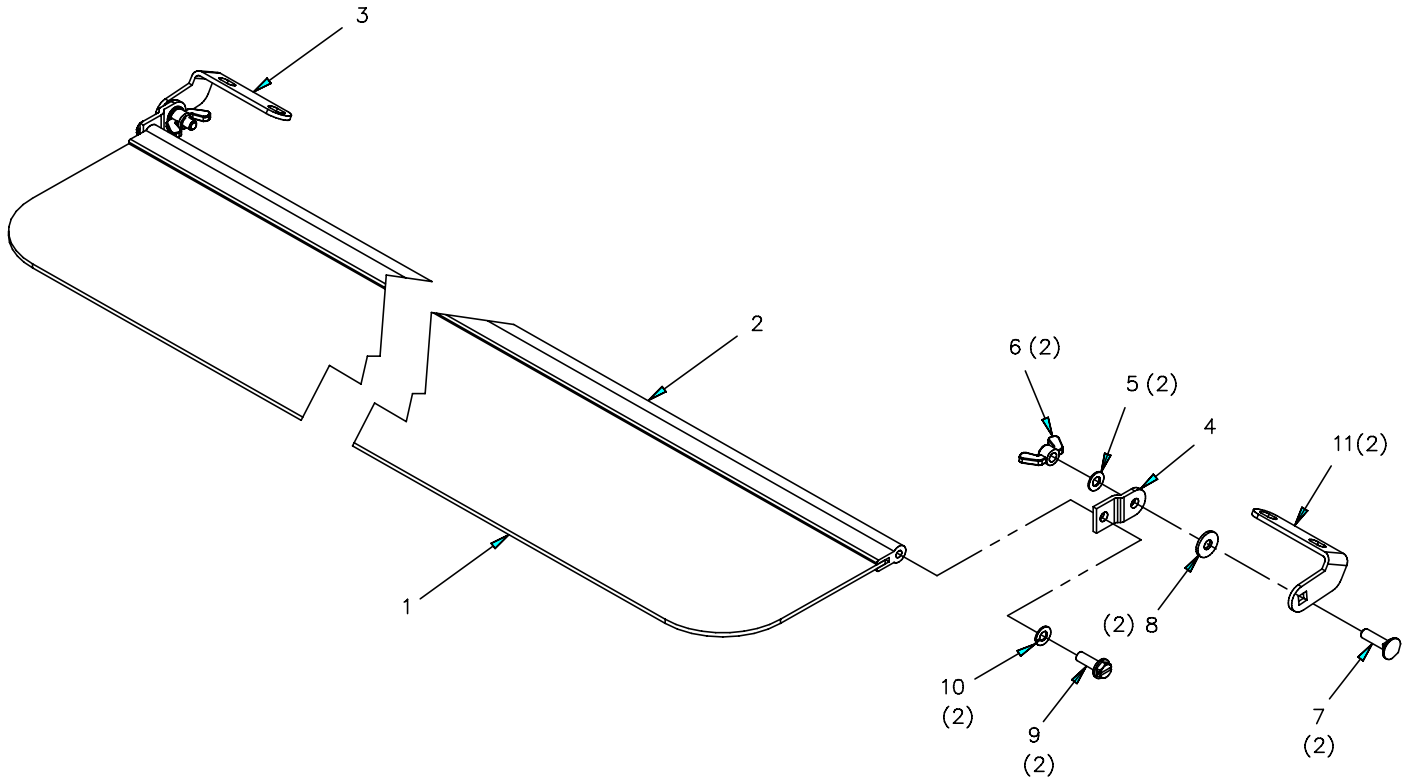


ITEM NO.	PART NUMBER	DESCRIPTION	QTY	REV
REF	331463	CAB DOOR ASSEMBLY W/PULL HNDL	1	REV 2
1	331531	DOOR FRAME WLDMNT W / SQUARE HINGES	1	-.6
2	031428	BOLT,HEX,HEAD,Ø 1/4-20-UNC x 1\2"LG	1	A.8+
3	035604	WASHER,SPRING LOCK,Ø #10	6	-.3
4	330818	CAB DOOR WINDOW_LOWER	1	-.2+
6	331124	NEOPRENE RUBBER WASHER	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



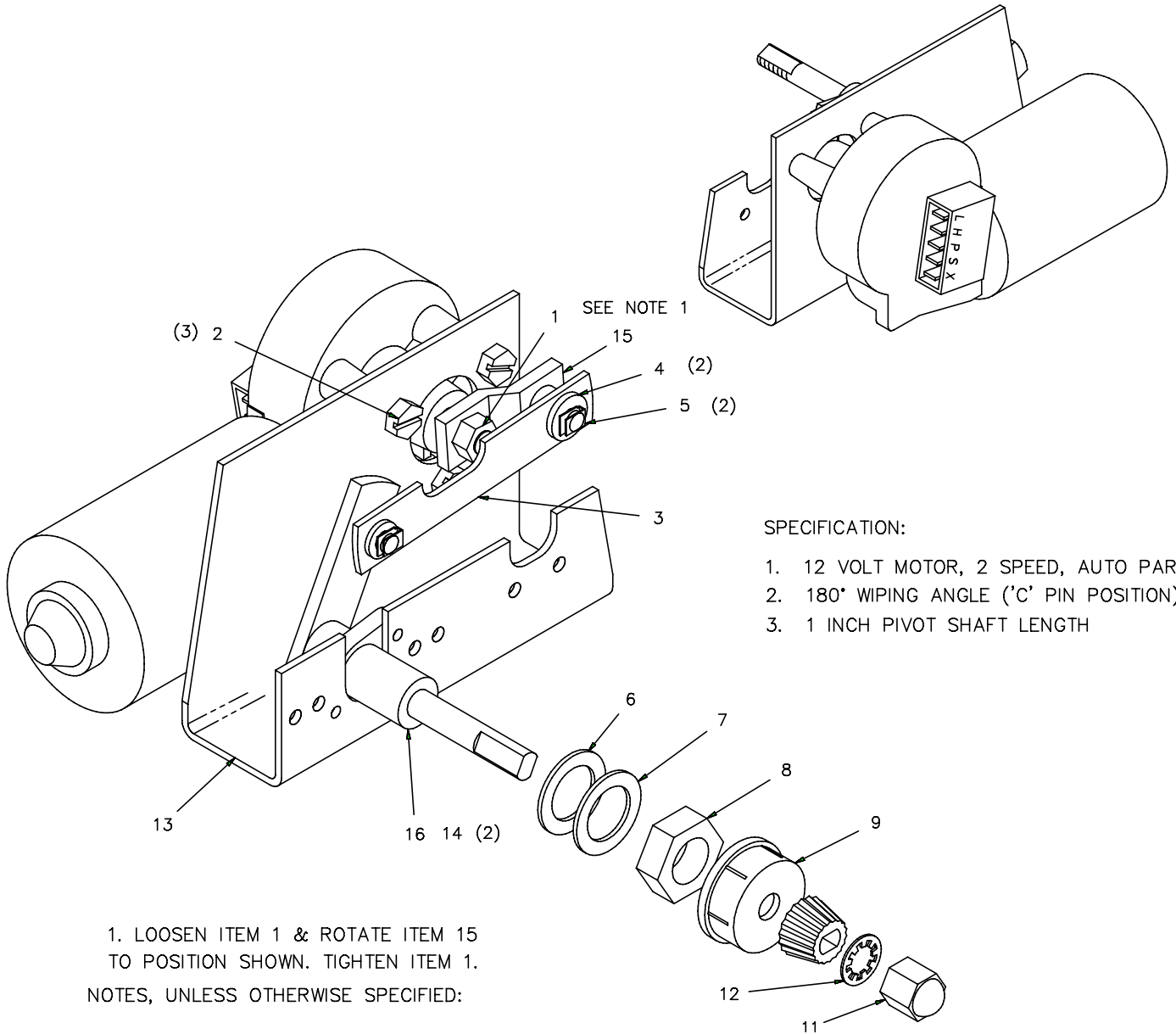
Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	321621	Sun Visor Assembly	A Ref	8	325748	Washer, Nylon	2
1	325741	Grey Plexiglass	1	9	325749	Scr, Self-tapping	2
2	325742	Aluminum Hinge	1	10	030643	Washer- Loc Split Pltd 1/4 Gr8	2
3	325743	Bracket, Anglt Mtg (Rh)	1	11	325750	Bracket, Angle Mtg (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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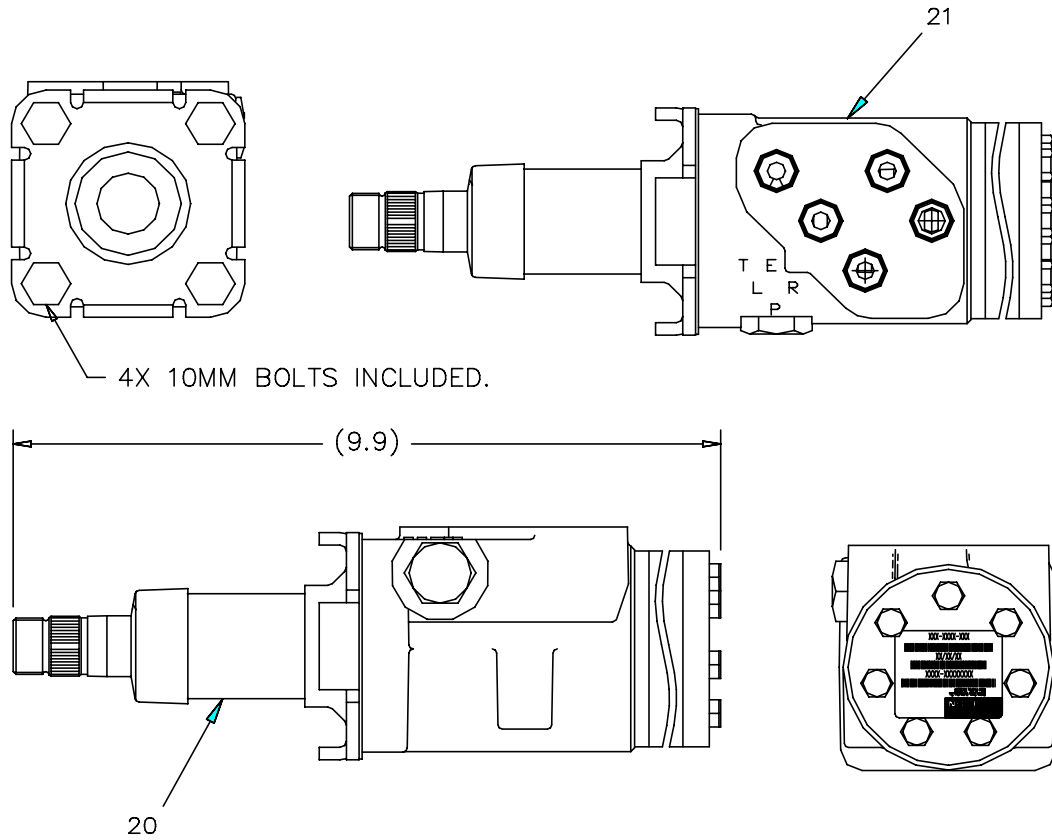


Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
–	312700	Windshield Wiper Motor Assy	C Ref	11	312711	Nut	1
1	312701	Nut	1	12	312712	Washer, Flat	1
2	312702	Screw, Mounting	3	13	312713	Bracket	1
3	305983	Connecting Link	1	14	312714	Screw	2
4	312704	Spacing Washer	2	15	312715	Drive Arm	1
5	312705	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				





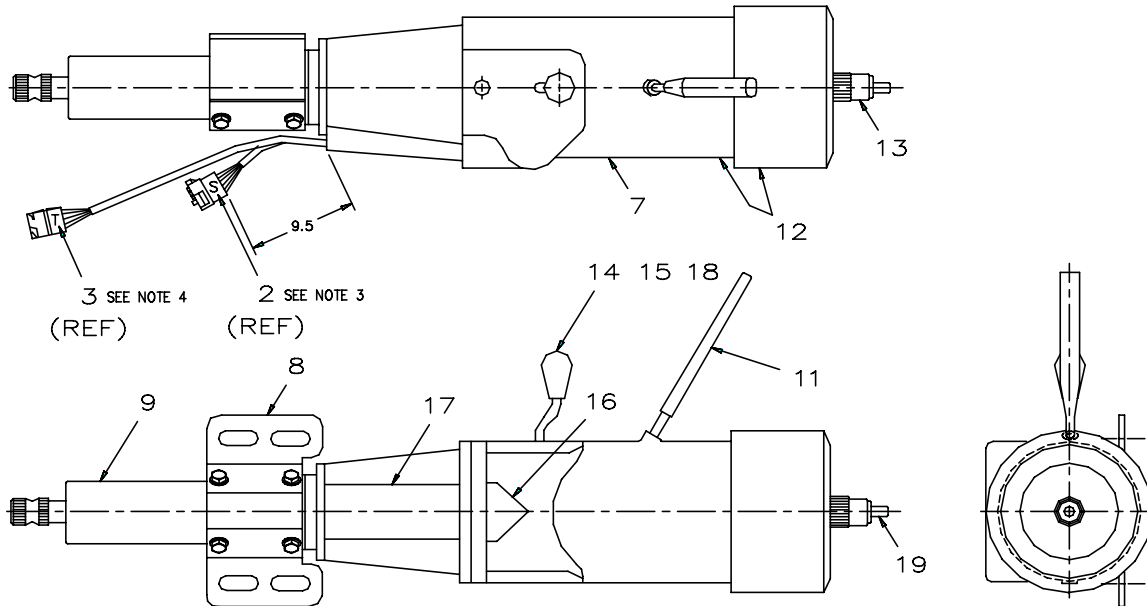
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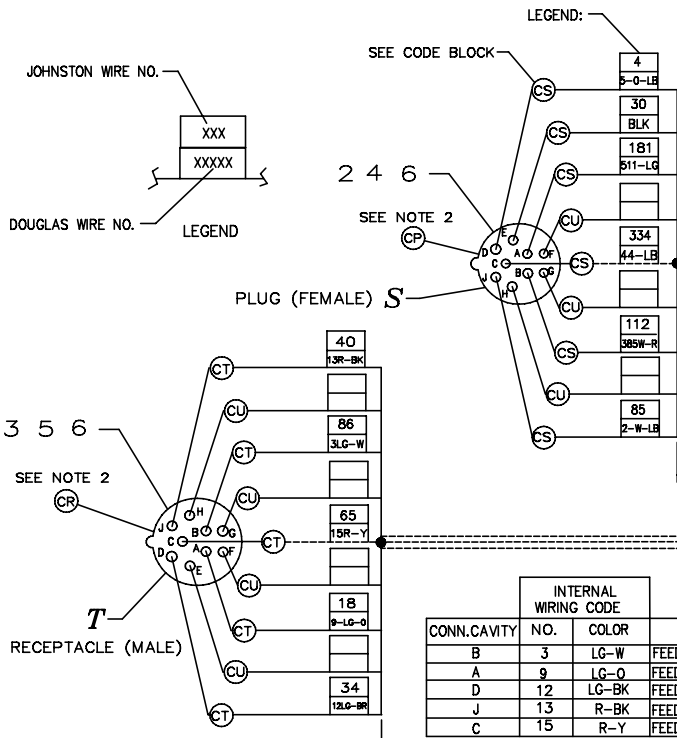
NOTES:

- 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 WARING FLASHER
A	511	LG	FEED FROM STOP LAMP SWITCH
E		BLK-Y	HORN WIRE



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

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



Steering Column Assembly

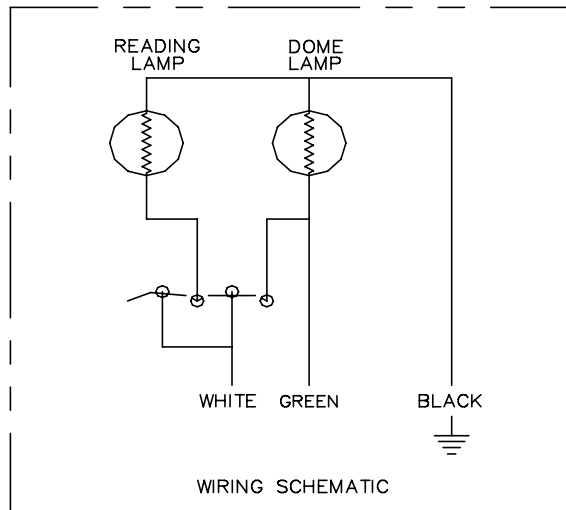
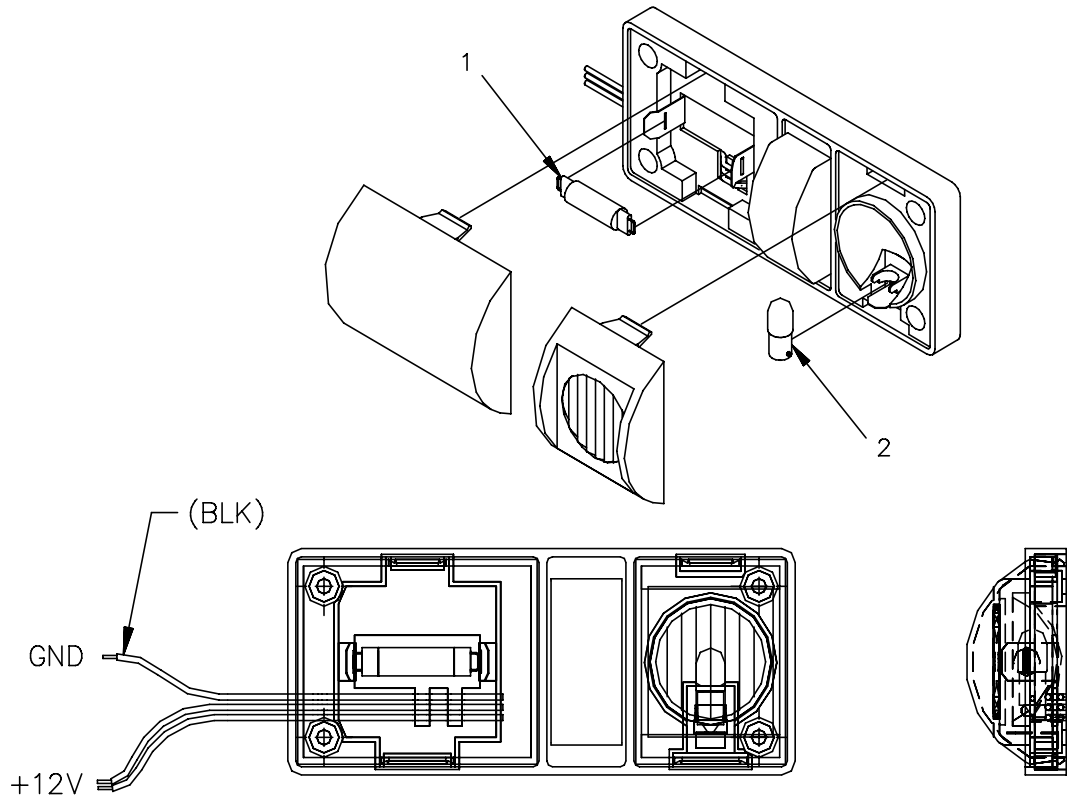
CHAPTER 4

Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	318395	Steering Column Assembly	B Ref				
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				





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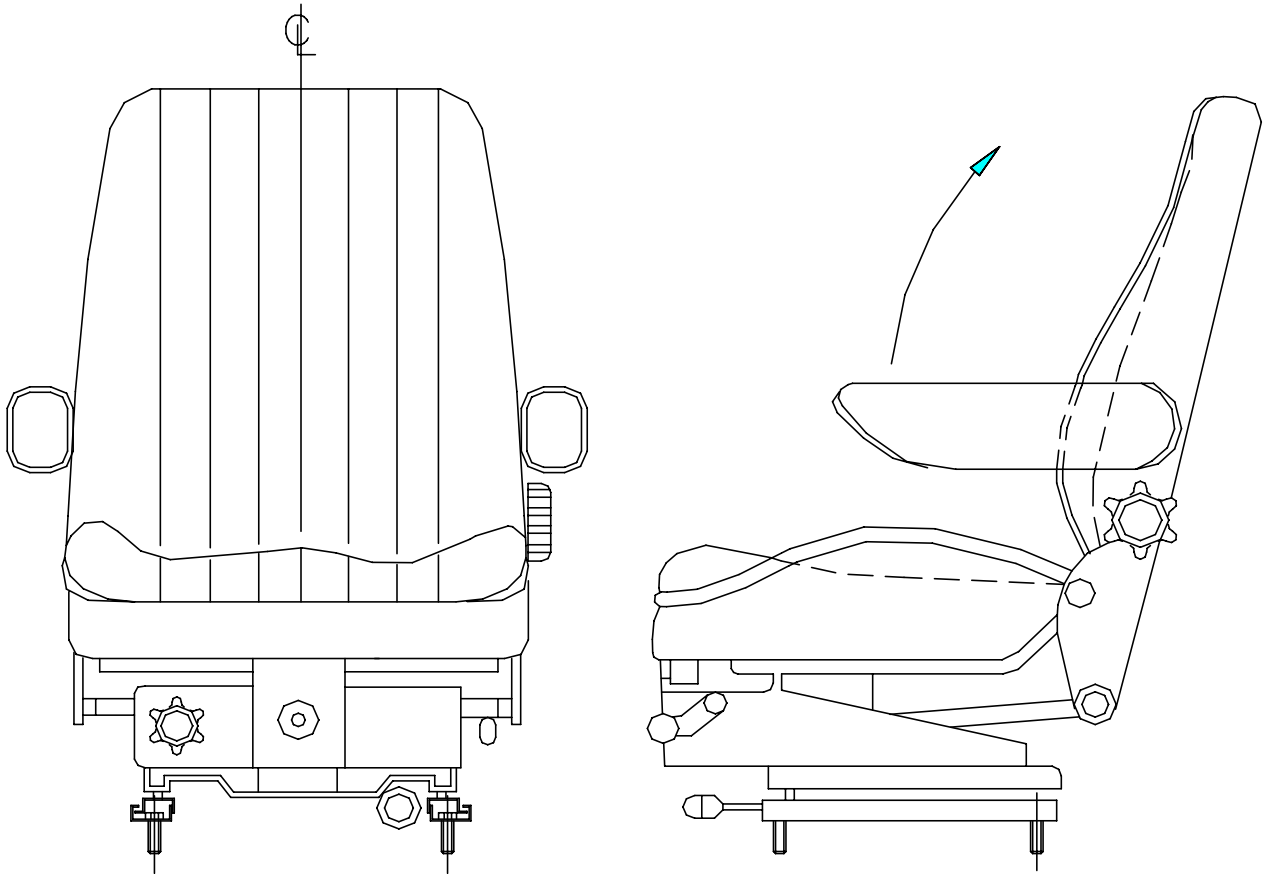
Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	317629	Dome Lamp Assembly	- Ref	1	317634	Bulb,Tube	0
	317729	Dome Lamp	1	2	317635	Bulb,Lamp	0
	601097	Terminal – Plug	1				
	316024	Connector – bullet, Fem 0.156	1				





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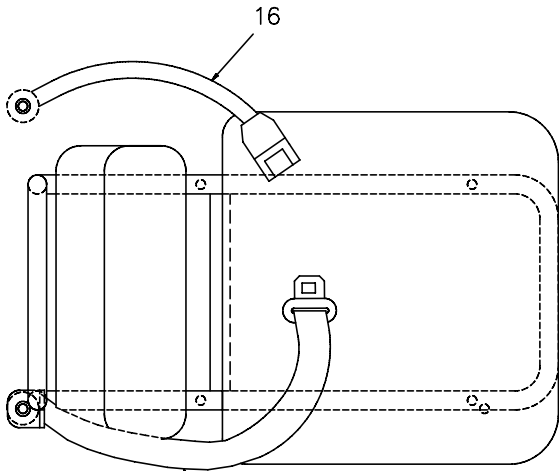
Item	Pt No.	Description	Qty				
-	318806	Driver Seat Assembly	B	Ref			
1	381189	Compressor	-	0			
			2	381190	Knob, Air Valve	-	0
			3	381655	Valve- Air	A	0





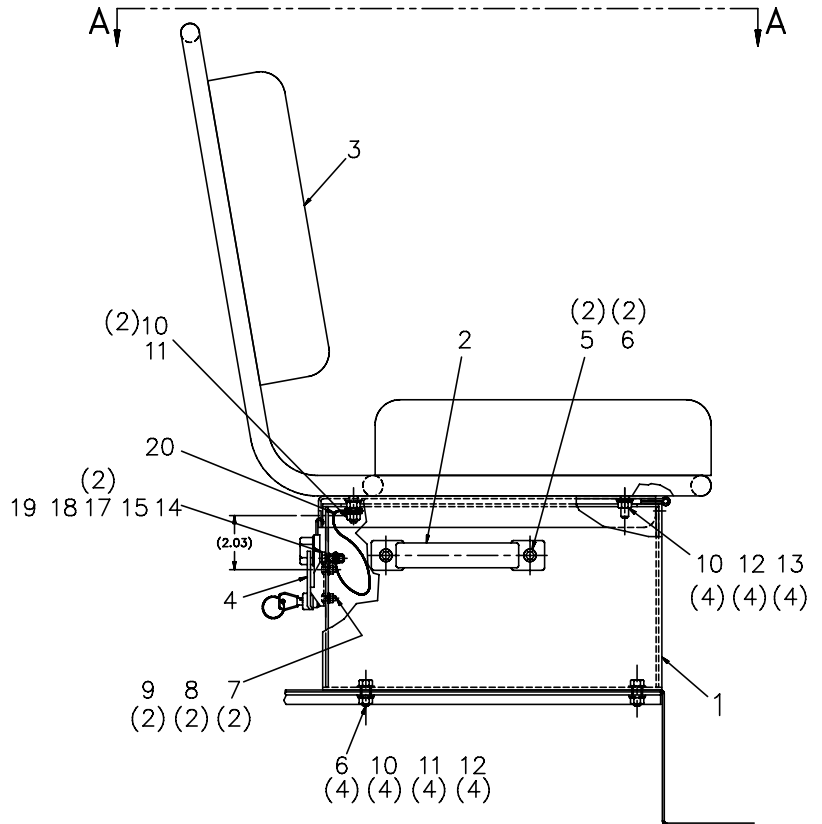
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16 REF
ANCOR POINTS ON REAR CAB SKIN
ARE NOT SHOWN.

VIEW A-A

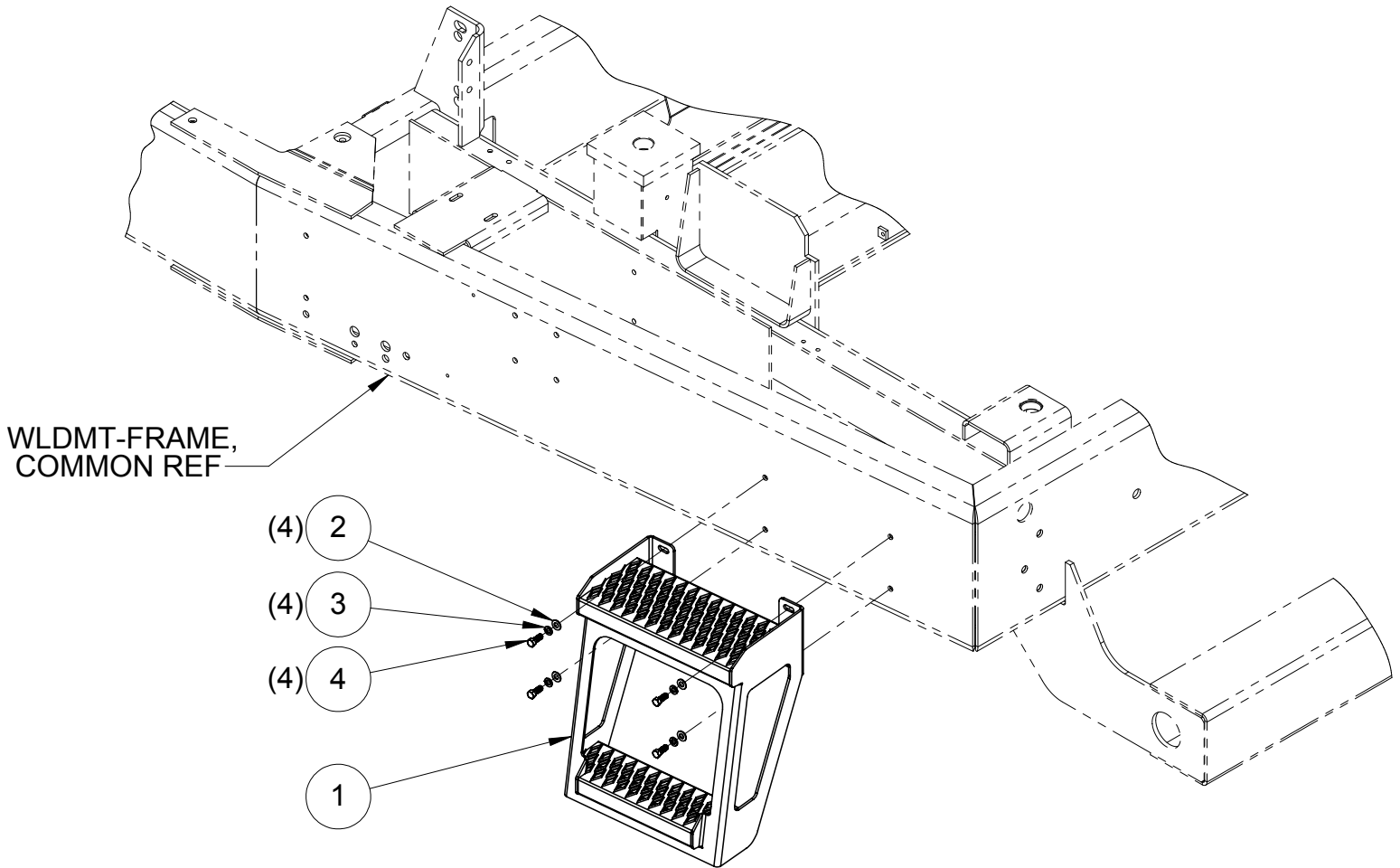


Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	353875	Buddy Seat Installation	A Ref	11	026025	Nut- Loc 5/16-18 (Conelock)	5
1	315775	Pedestal Wldmt-buddy Seat	E 1	12	030373	Washer- Loc Split Plt 5/16 Gr8	8
2	318797	Grip Handle-7"	0	13	030617	Nut- Plated 5/16-18	4
3	320903	Buddy Seat, Folding - '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	1
10	030489	Washer Flat Uss Plated 5/16	10				





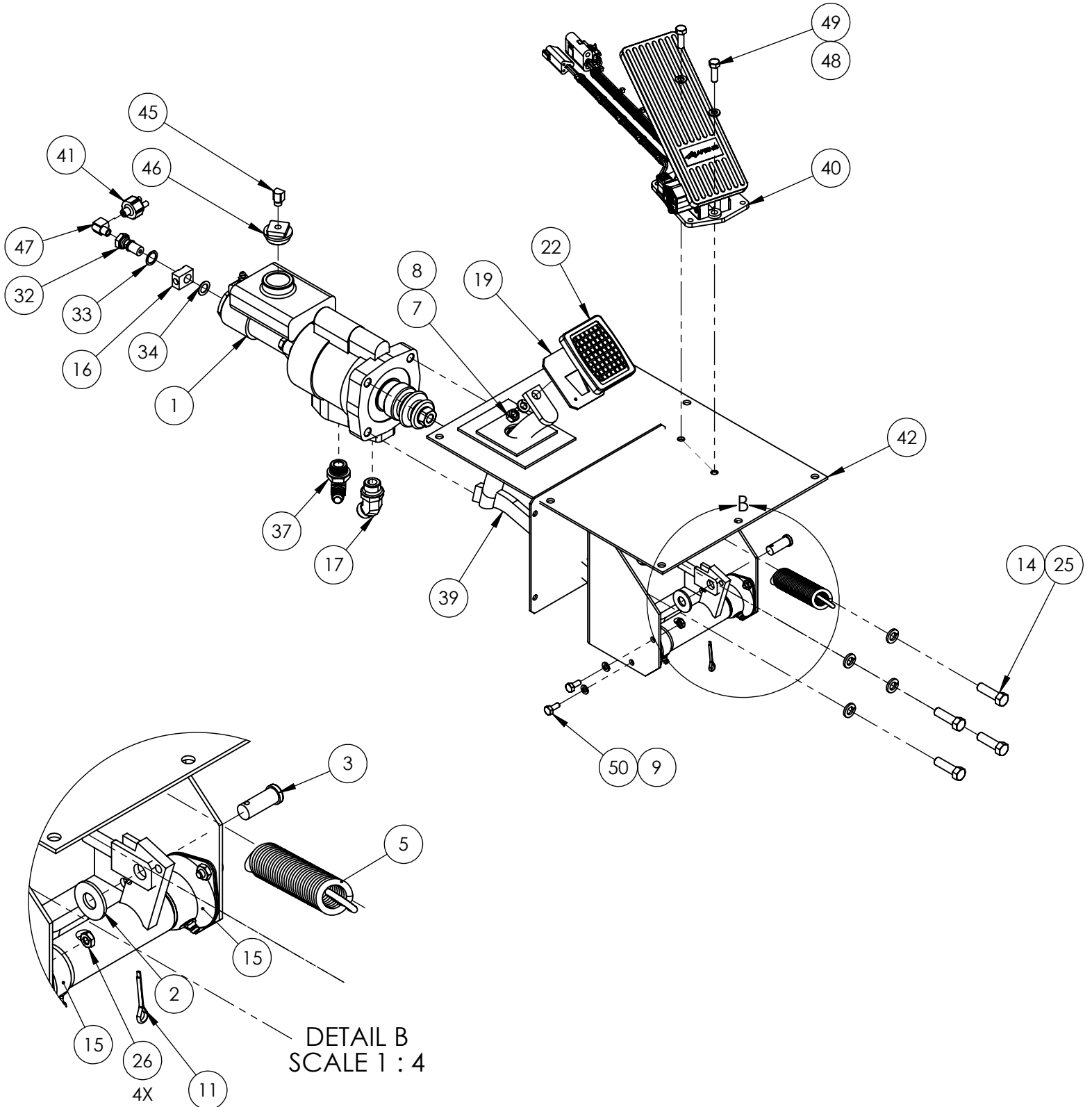
NOTES



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



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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

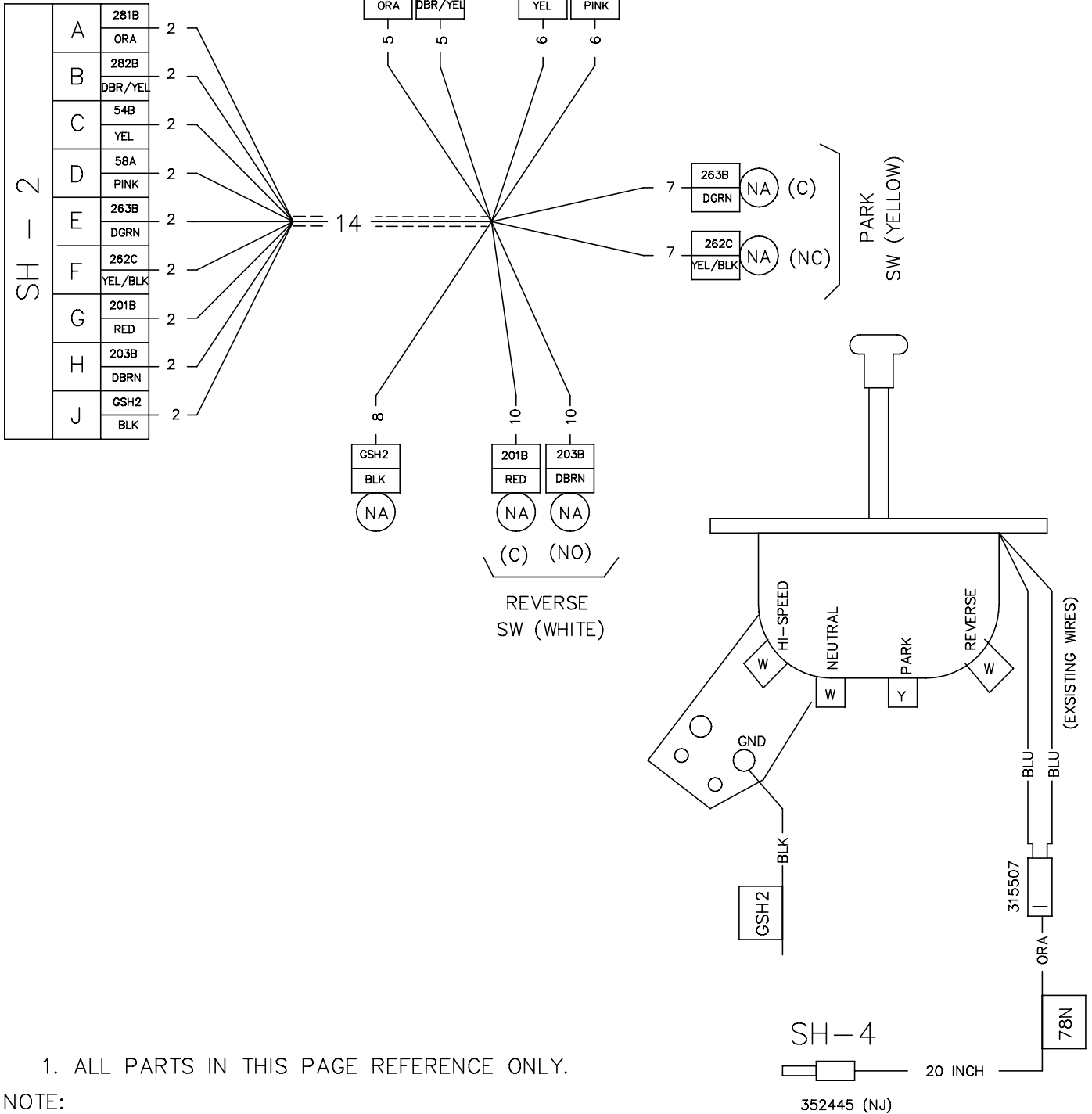


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CHAPTER 4

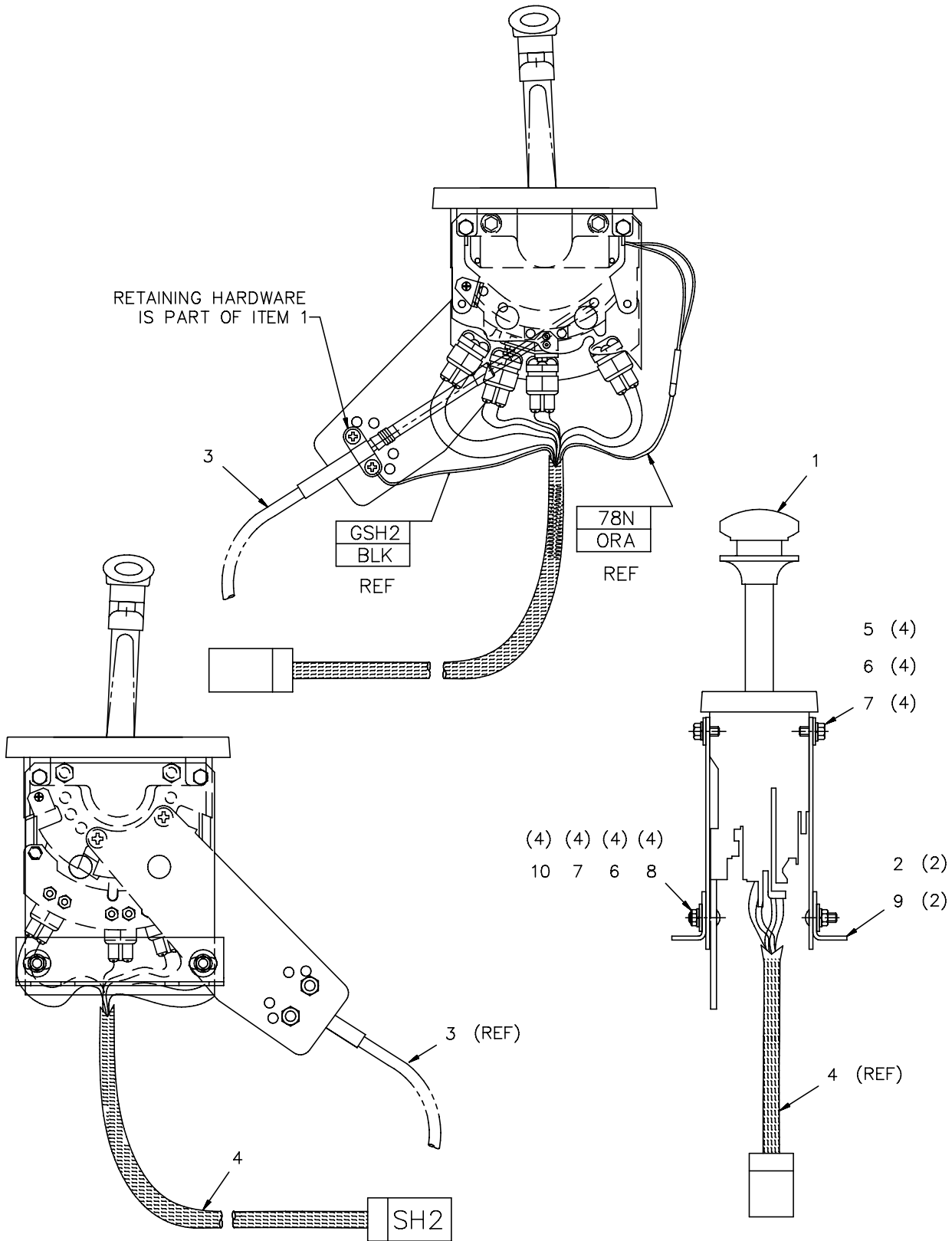
REF ONLY

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

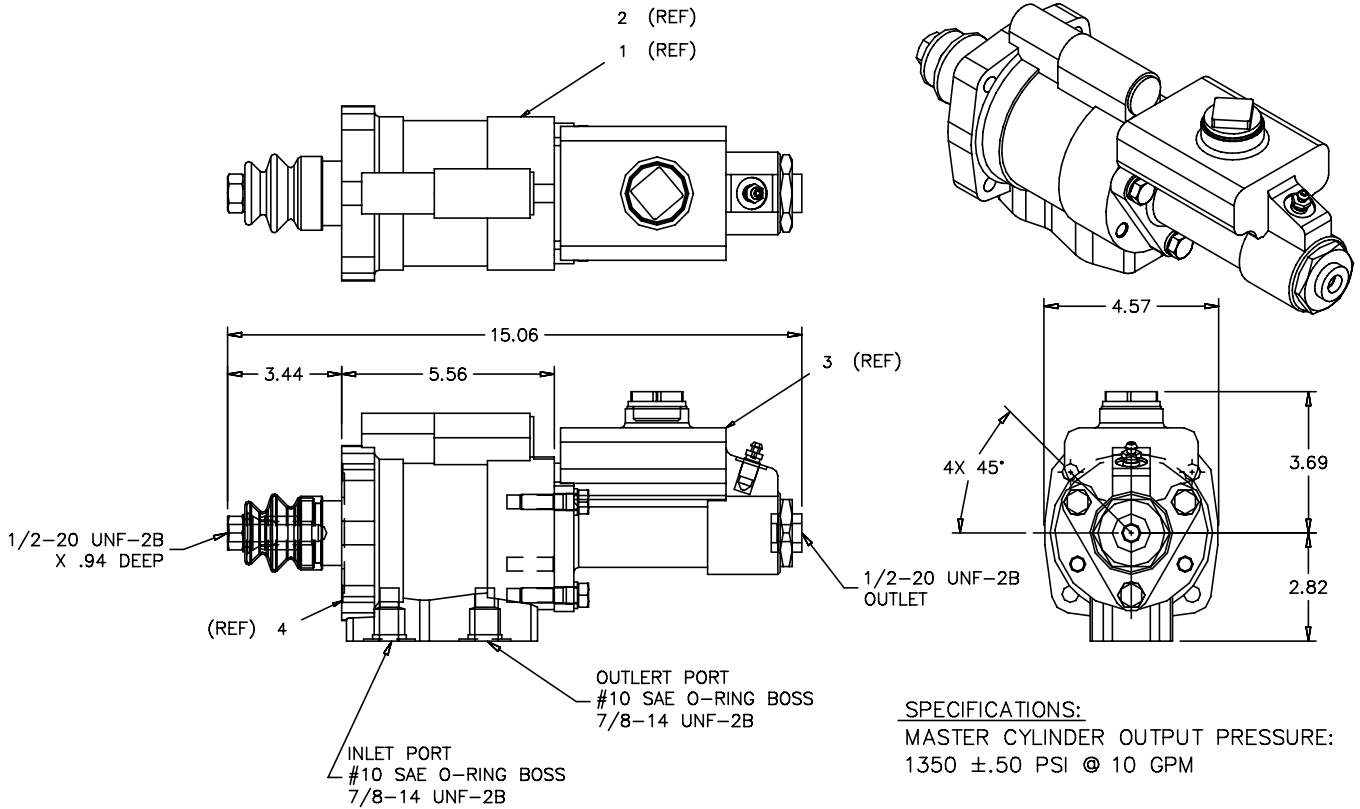
Item	Pt No.	Description	Qty
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CHAPTER 4



- 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)

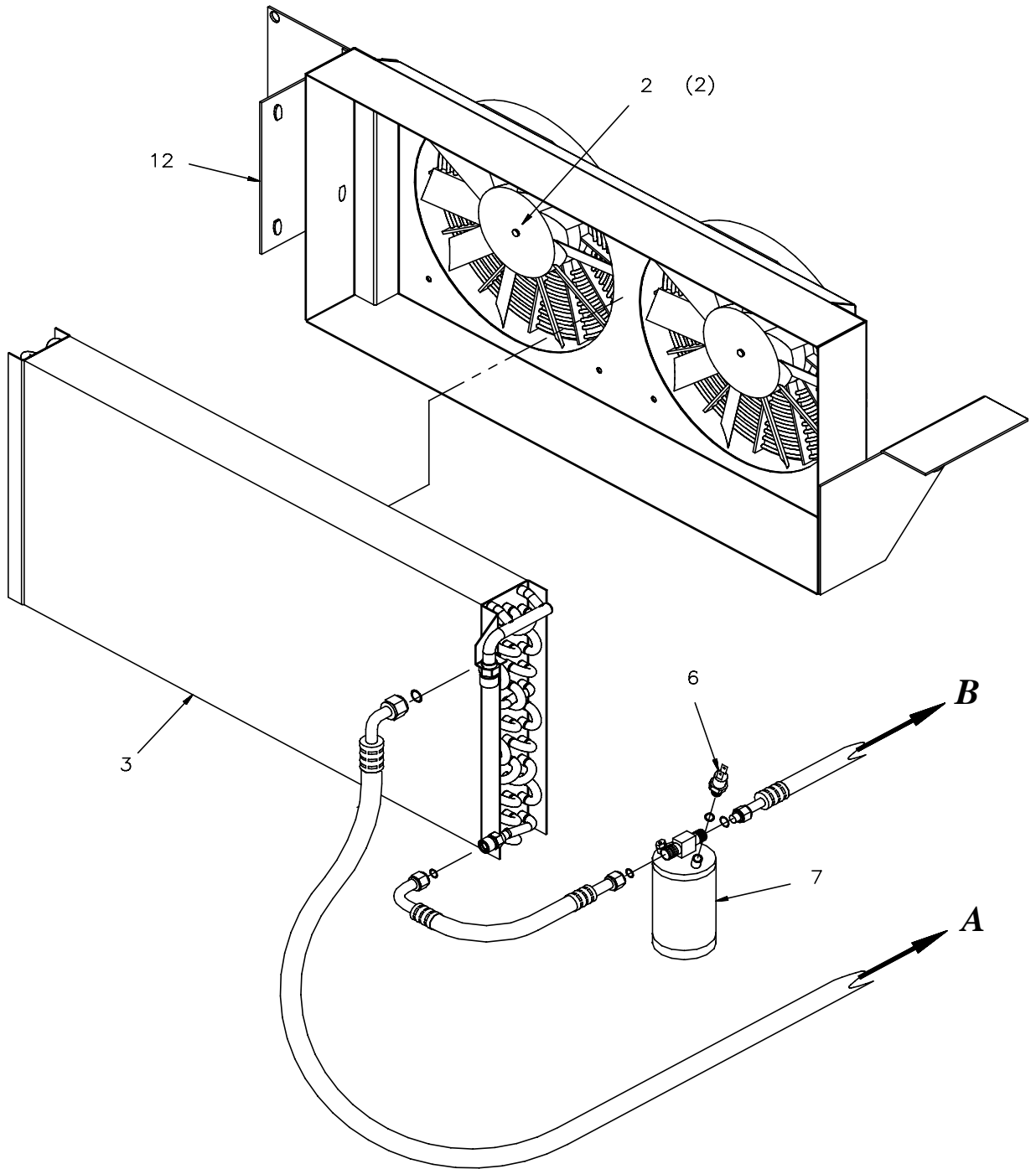
Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	309893	Master Cylinder Assembly	D Ref				
1	310386	Kit – Master Cylinder Repair	0				
2	307008	Kit–power Assist	0				
3	381193	Master Cylinder	0				
4	381194	Power Assist Section	0				





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CHAPTER 4



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

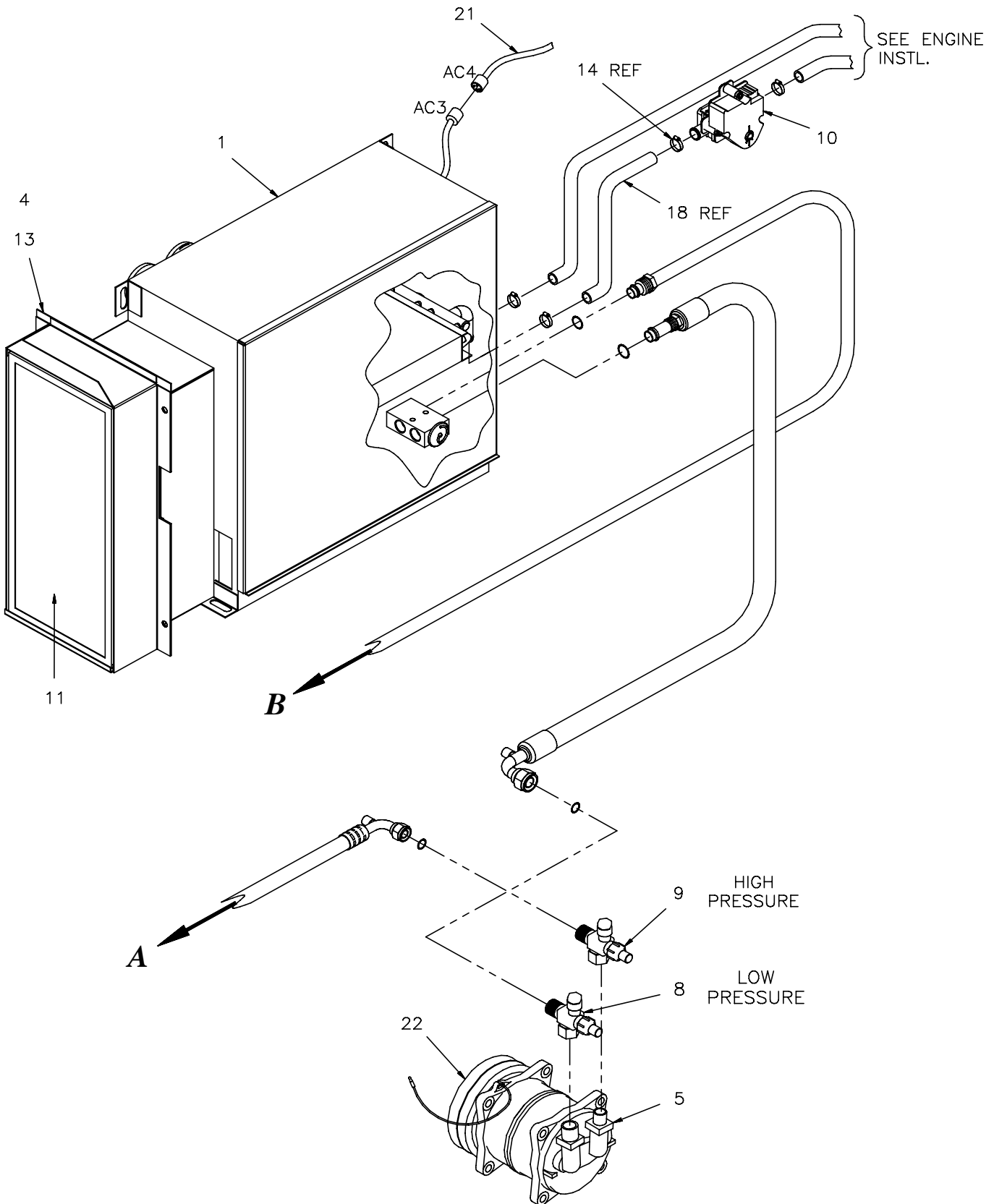
1. USE 4 LBS OF R-134A REFRIGERANT.

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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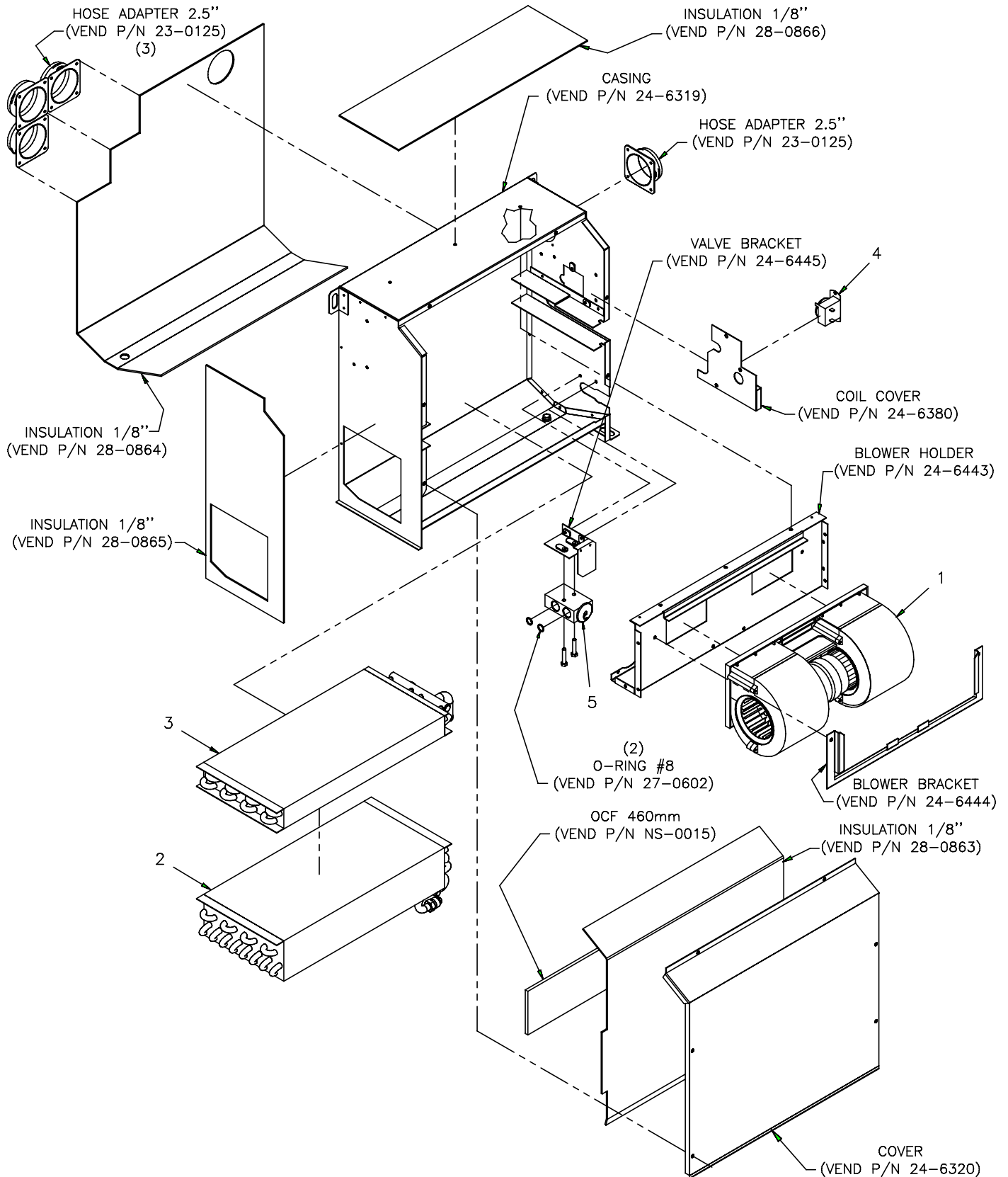


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Evaporator Housing Assembly



CHAPTER 4





Evaporator Housing Assembly

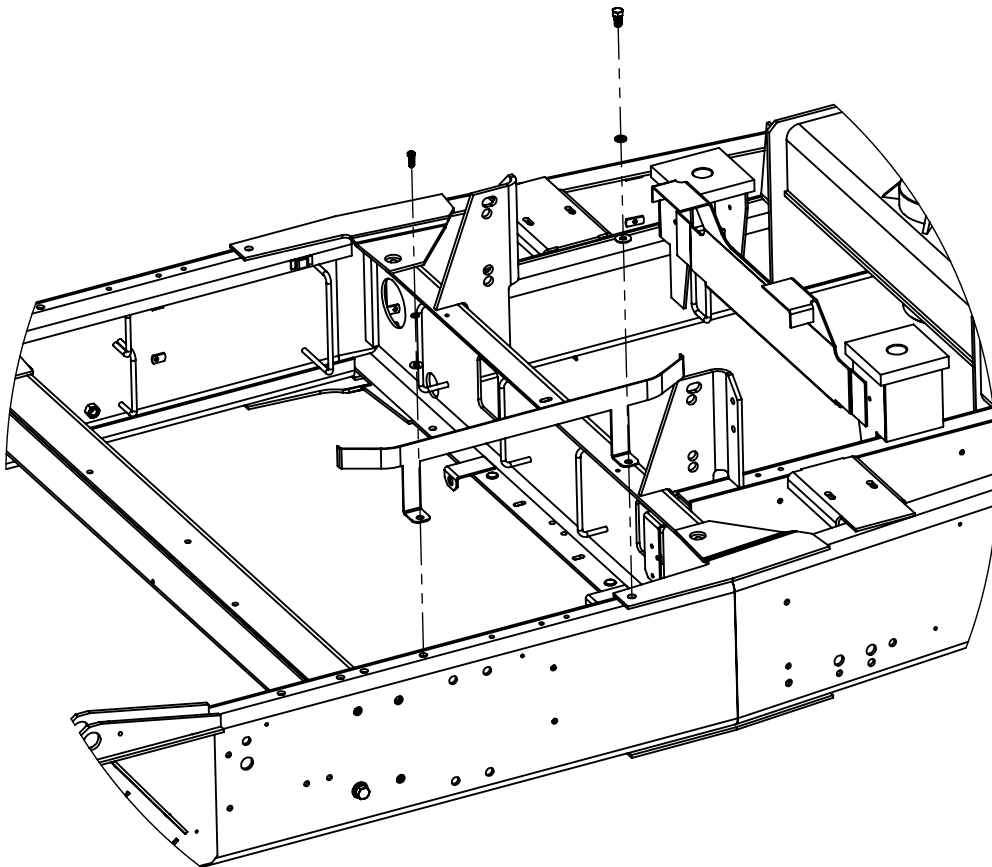
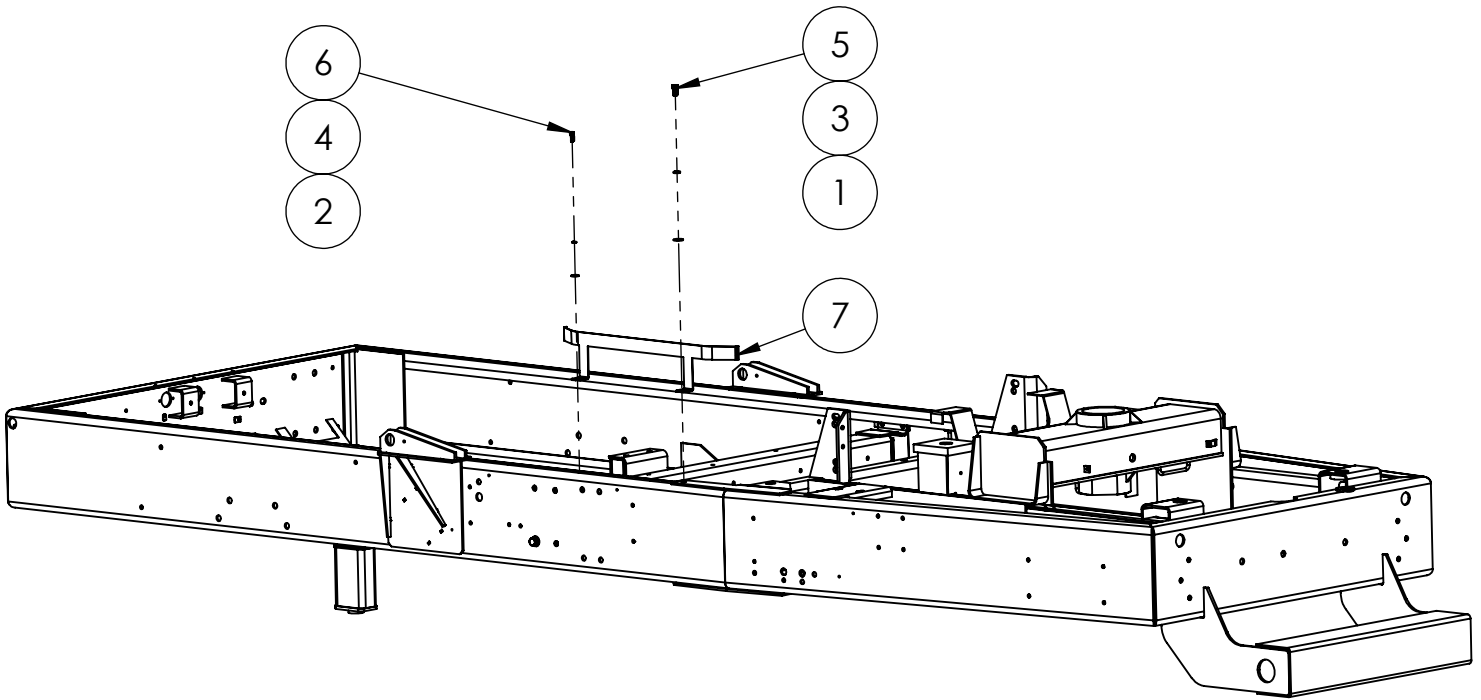
CHAPTER 4

<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





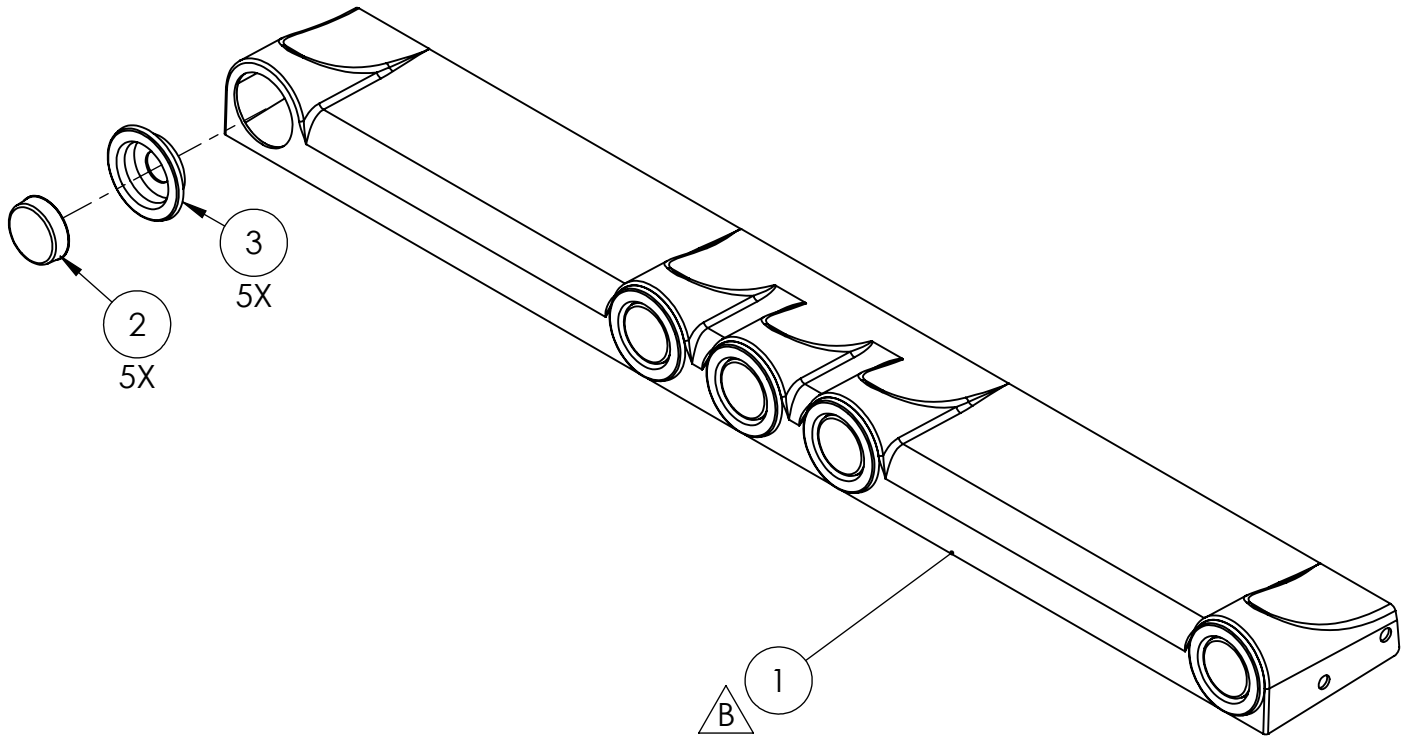
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ITEM NO.	PART NUMBER	DESCRIPTION	QTY
REF	330915	AC HOSE BRACKET INSTL	REF
1	031506	WASHER,FLAT,Ø 7/16",USS	1
2	030557	WASHER,FLAT,USS,Ø 3/8"	1
3	030592	WASHER,SPRING LOCK,Ø 1/2"	1
4	030373	WASHER,SPRING LOCK,Ø 5/16"	1
5	030636	BOLT,HEX,HEAD,1/2-13-UNC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



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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

Table of Contents

	Page
Battery Installation RH Fender	5.6
Front Console Panel Assembly	5.10
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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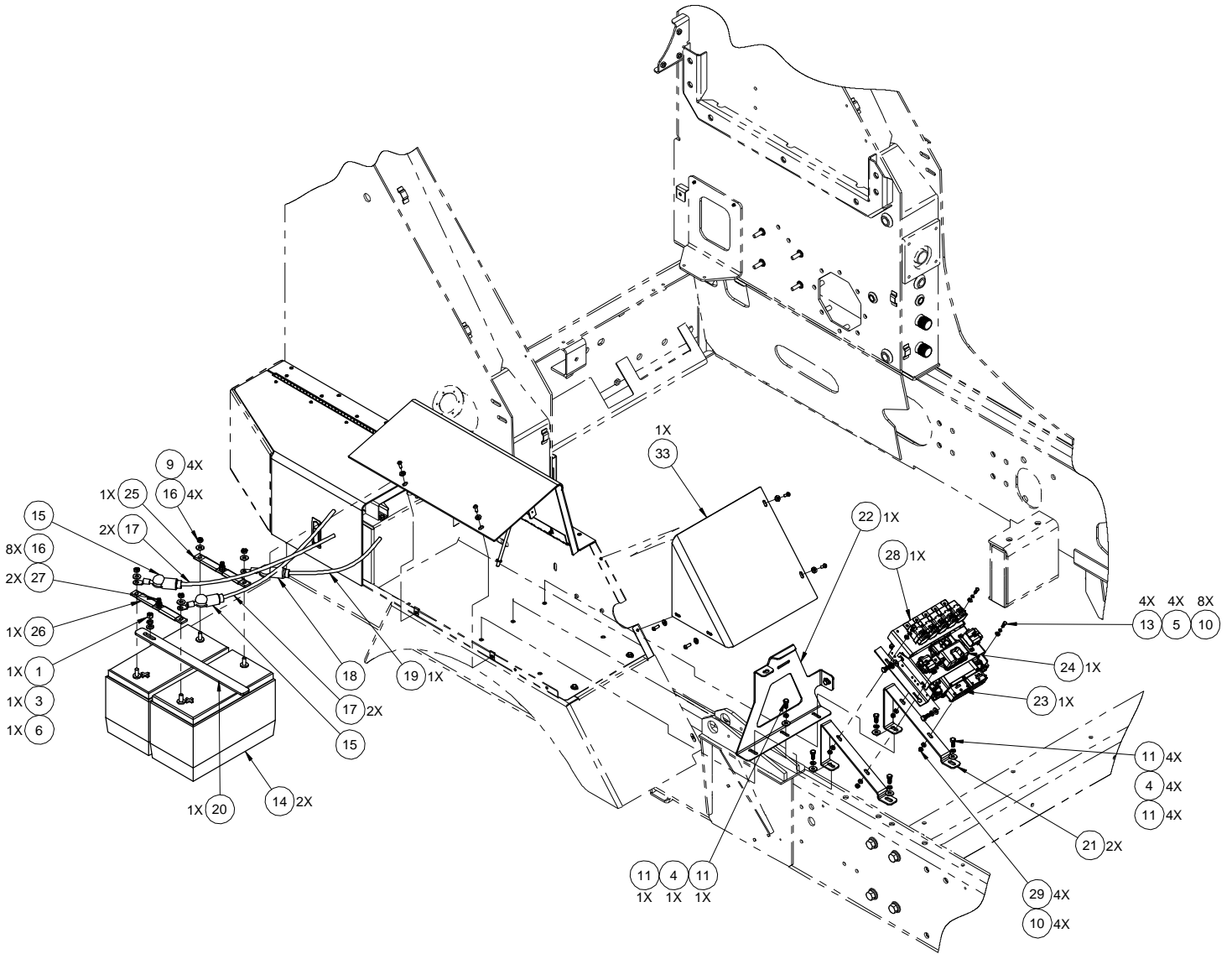
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BATTERY INSTALLATION



ITEM NO.	PART NUMBER	DESCRIPTION	QTY
REF	336377	BATTERY INSTALLATION	REV 1
1	30599	NUT, HEX, 3/8-16-UNC	1
2	30617	NUT, HEX, 5/16-18-UNC	1
3	30605	WASHER, SPRING LOCK, Ø 3/8"	1
4	30373	WASHER, SPRING LOCK, Ø 5/16"	6
5	35604	WASHER, SPRING LOCK, Ø #10	4
6	38266	WASHER, FLAT, Ø 3/8", SAE NARROW	1
11	30489	WASHER, FLAT, Ø 5/16", USS, WIDE, 7/8" O.D.	5
8	651420	WASHER, FLAT, Ø 5/16", SAE NARROW, 11/16" O.D.	2
9	325879	Washer, Flat Ø.391"xØ.875"x.062" (Brass)	4
10	900135	WASHER, FLAT, Ø #10, USS WIDE	8
11	30483	BOLT, HEX, HEAD, 5/16-18-UNC x 3/4" LG	5
12	31433	BOLT, HEX, HEAD, 5/16-18-UNC x 1" LG	1
13	318833	BOLT, HEX, HEAD, Ø #10-24-UNC x 3/4" LG	4
14	309003	BATTERY-MAINT.FREE 12V 900 CCA	2
15	352799	CAP, TERMINAL, BATTERY, RED	2(REF)
16	325880	NUT, HEX, JAM, 3/8-16-UNC, BRASS	8
17	325079	WIRE ASSY, BATT (+) TO STARTER	2
18	352831	CAP, TERMINAL, BATTERY, BLACK	1(REF)
19	325080	CABLE-BAT#1(-) TO GND STUD	1
20	336373	BRACE, BATTERY (R3AIR & M3I)	1
21	334044	BRACKET, CONTROL	2
22	336128	ANGLE-BRACE BATTERY, (R3AIR & M3I)	1
23	335292	ENGINE CONTROL MODULE (#8982995490)	1
24	335294	TURBO CONTROLLER (#8981331241)	1
25	325891	JUMPER ASSY BATTERY, BLACK	1
26	325890	JUMPER BATTERY ASSY, RED	1
27	325853	SCR, FH-SLT, BRASS, 3/8-16X 1-1/4	2
28	336830	ECM BRKT & ENGINE WIRE HARNESS	1
29	36860	NUT, KEPS #10-24 (ZP)	4
30	124-135	BOLT, HEX HEAD, M8x1.25x20mm lg.	4
31	460-10	WASHER, SPRING LOCK, Ø M8	4
32	455-10	WASHER, FLAT, Ø M8	4
33	333664	FENDER FRONT PANEL, RH	1

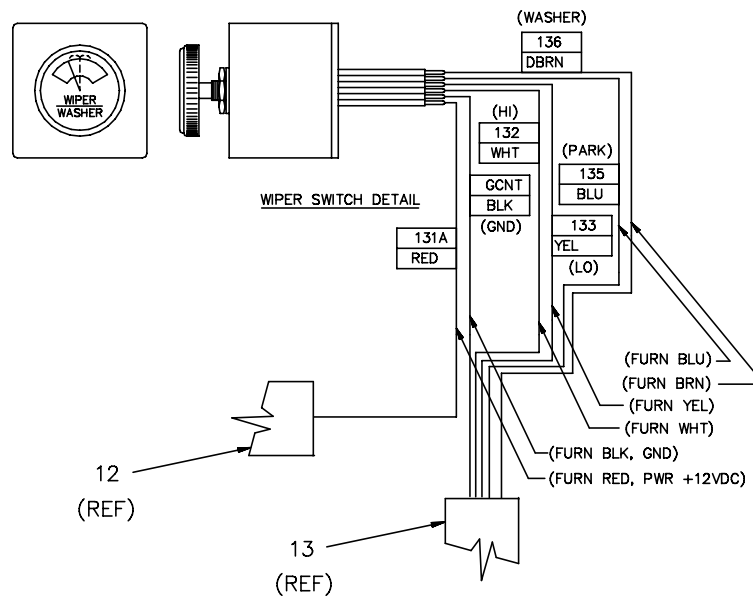
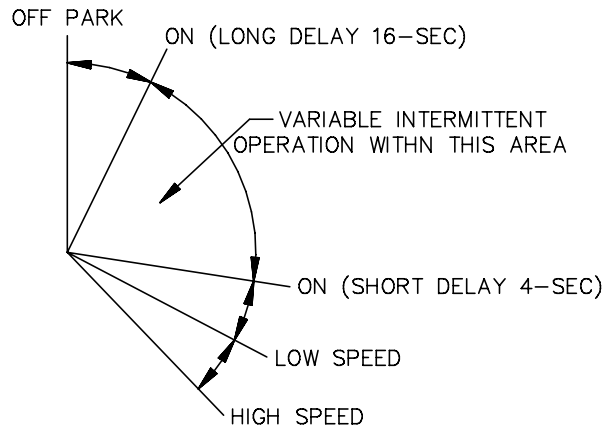


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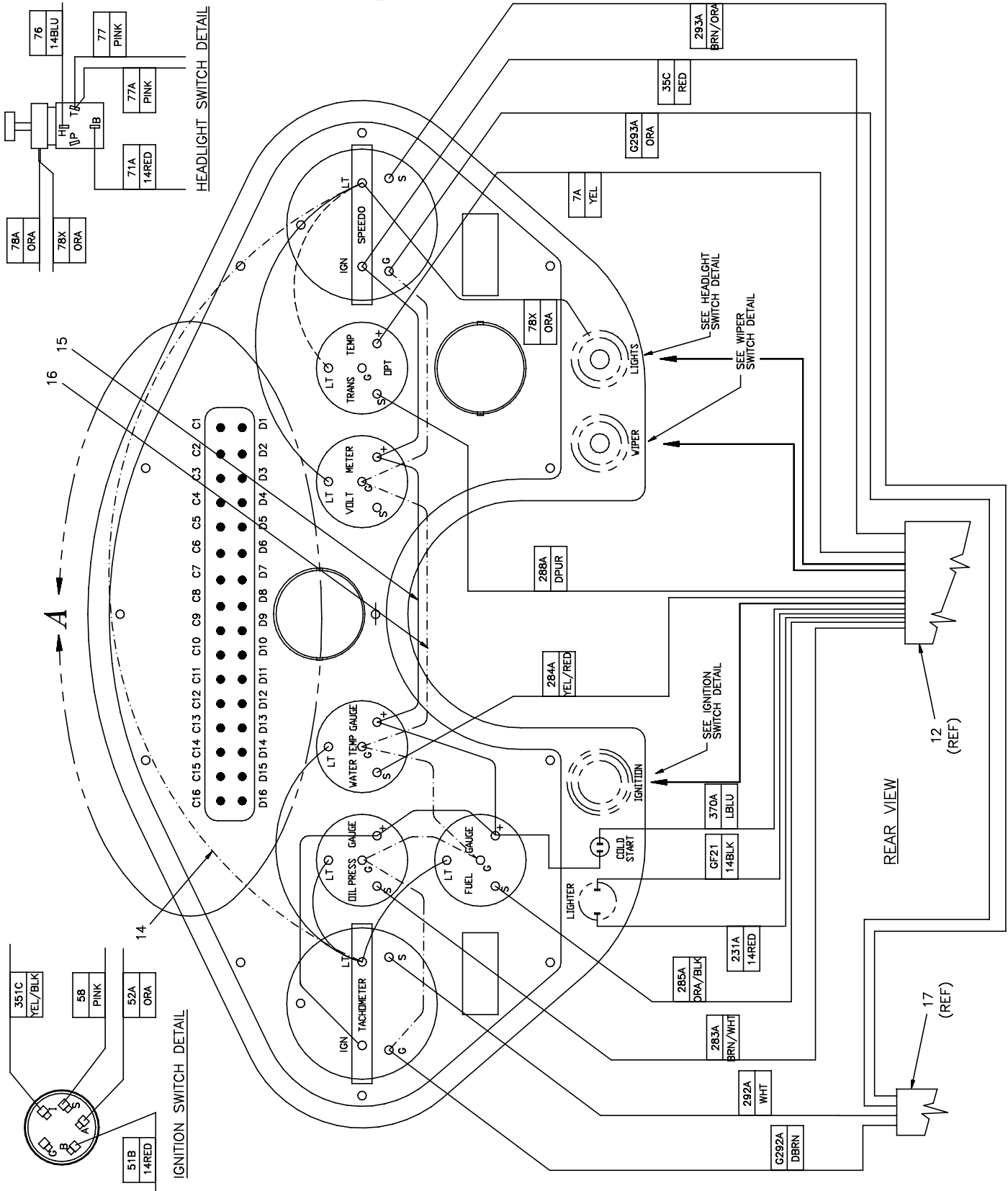


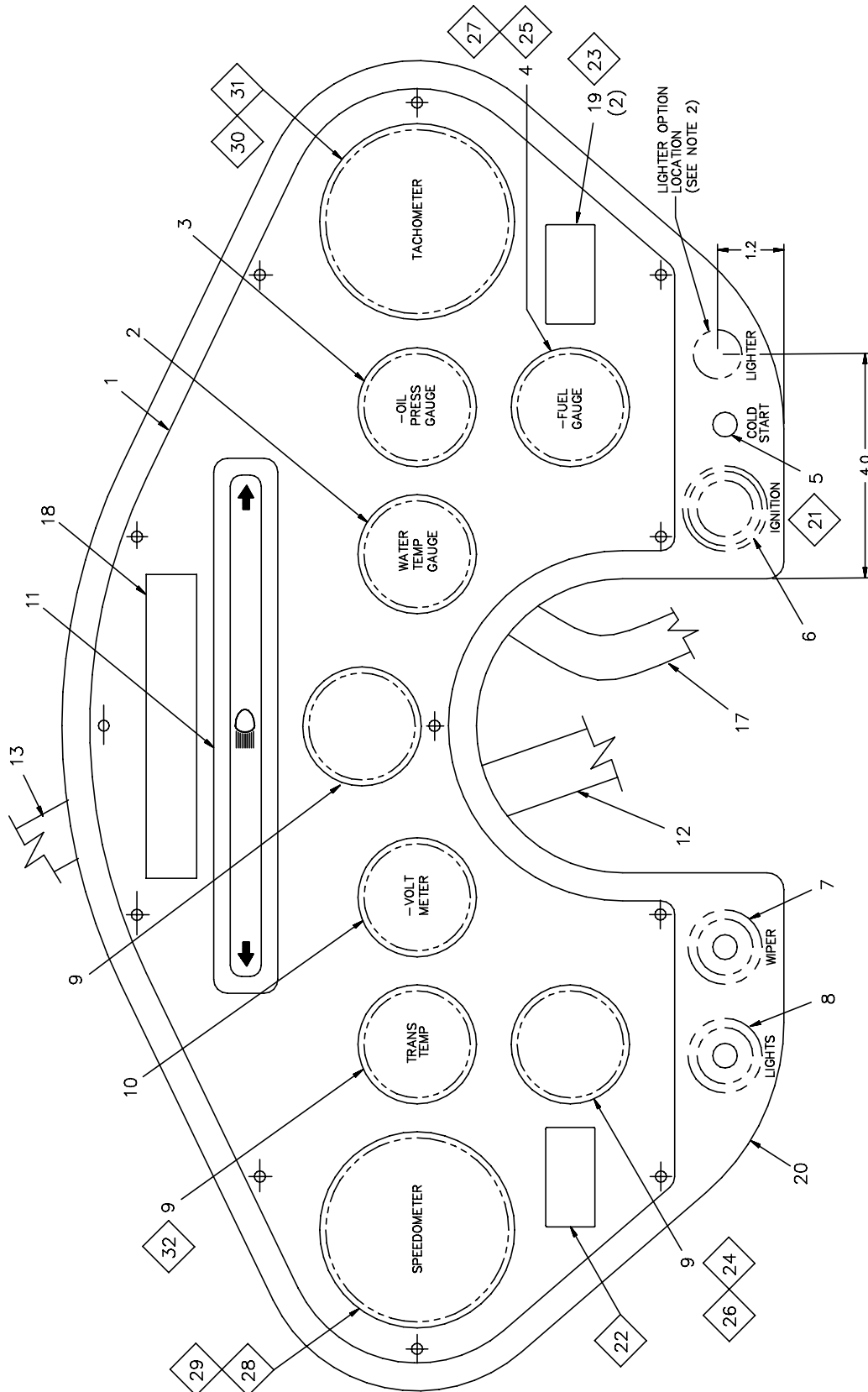
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WIPER SWITCH FUNCTION



Front Console Panel Assembly

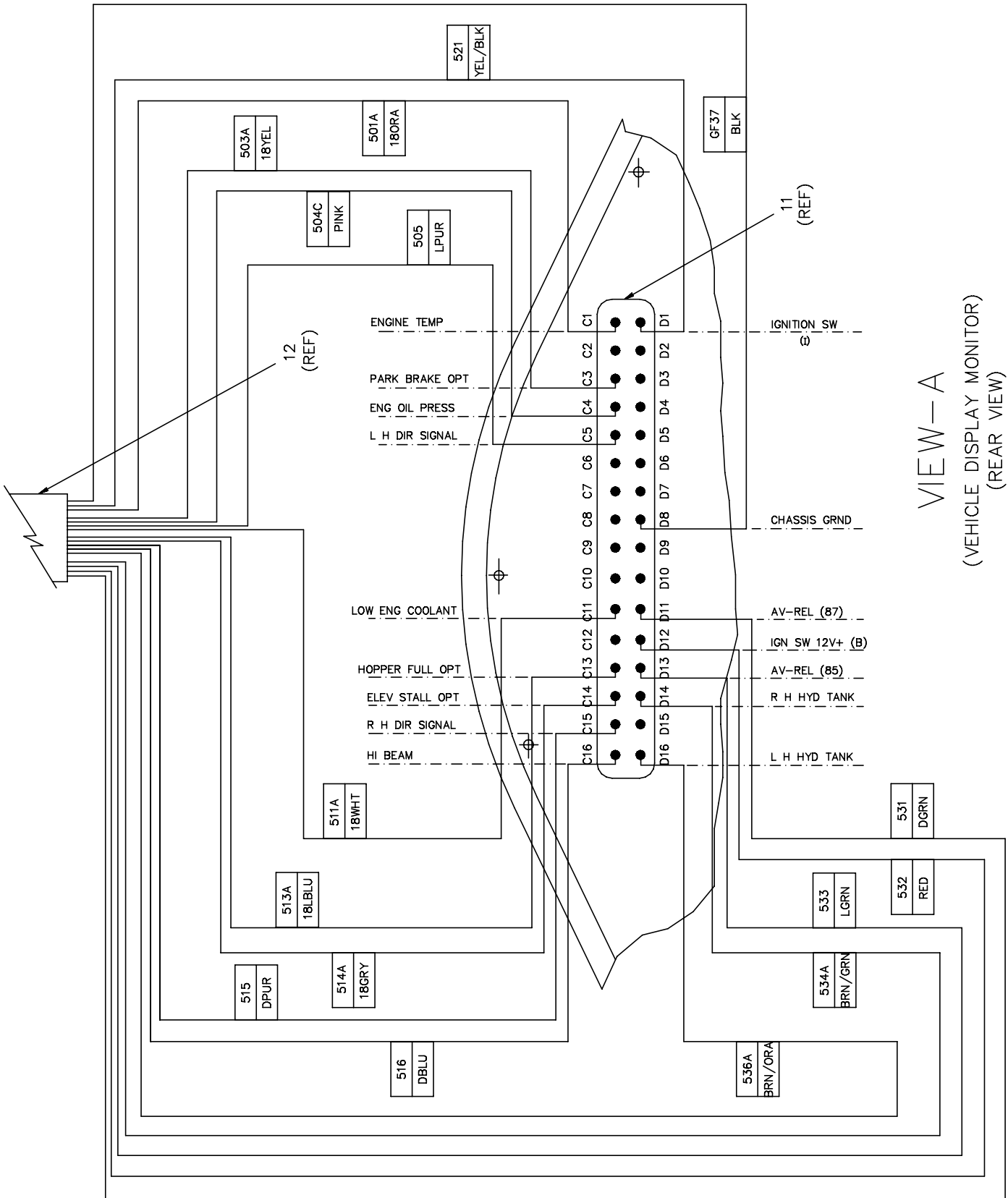




2. WHEN LIGHTER OPTION IS USED,
CUT .875 ϕ HOLE IN POSITION SHOWN.

1. — OPTION

NOTES:




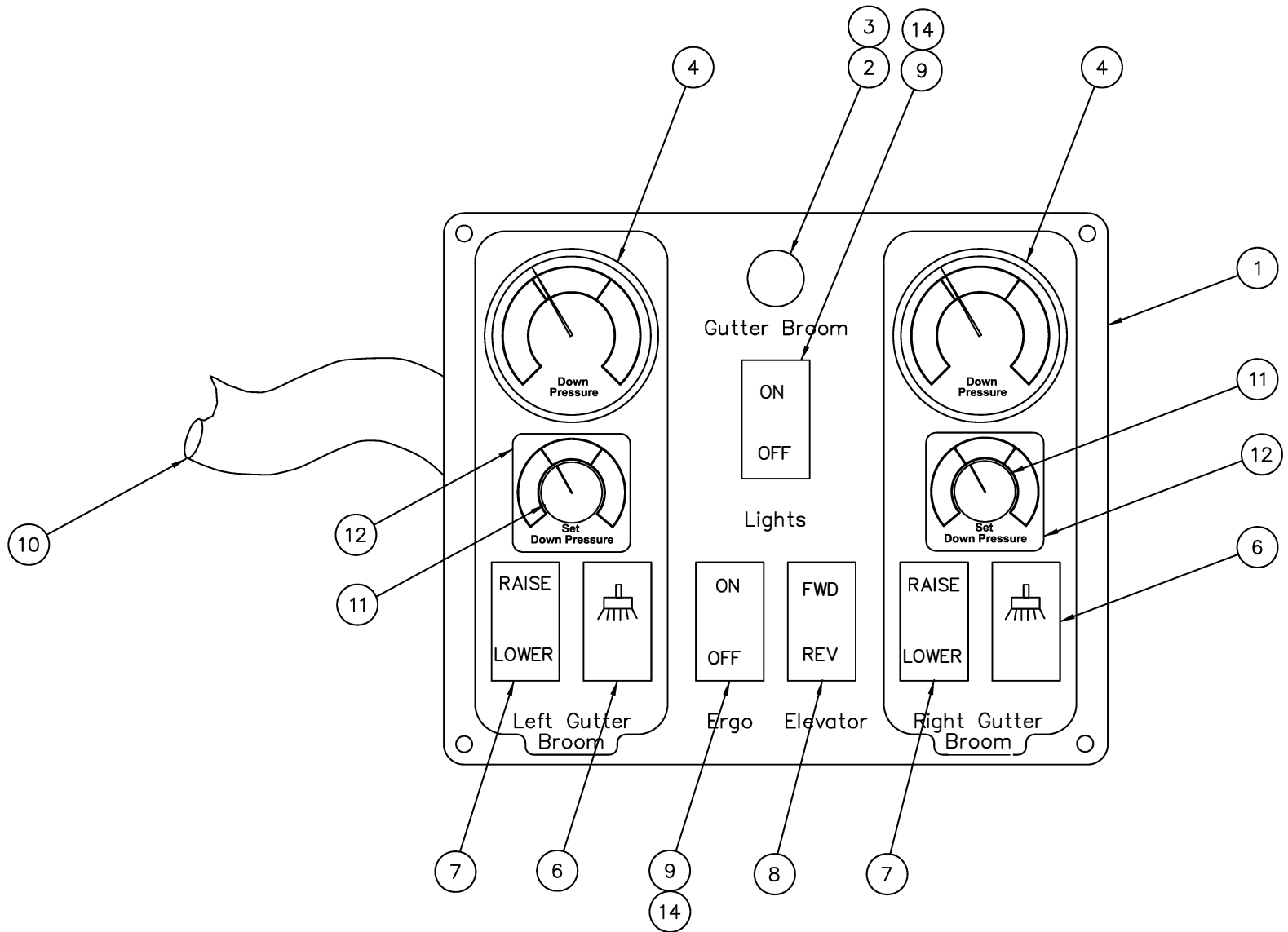
VIEW—A
(VEHICLE DISPLAY MONITOR)
(REAR VIEW)

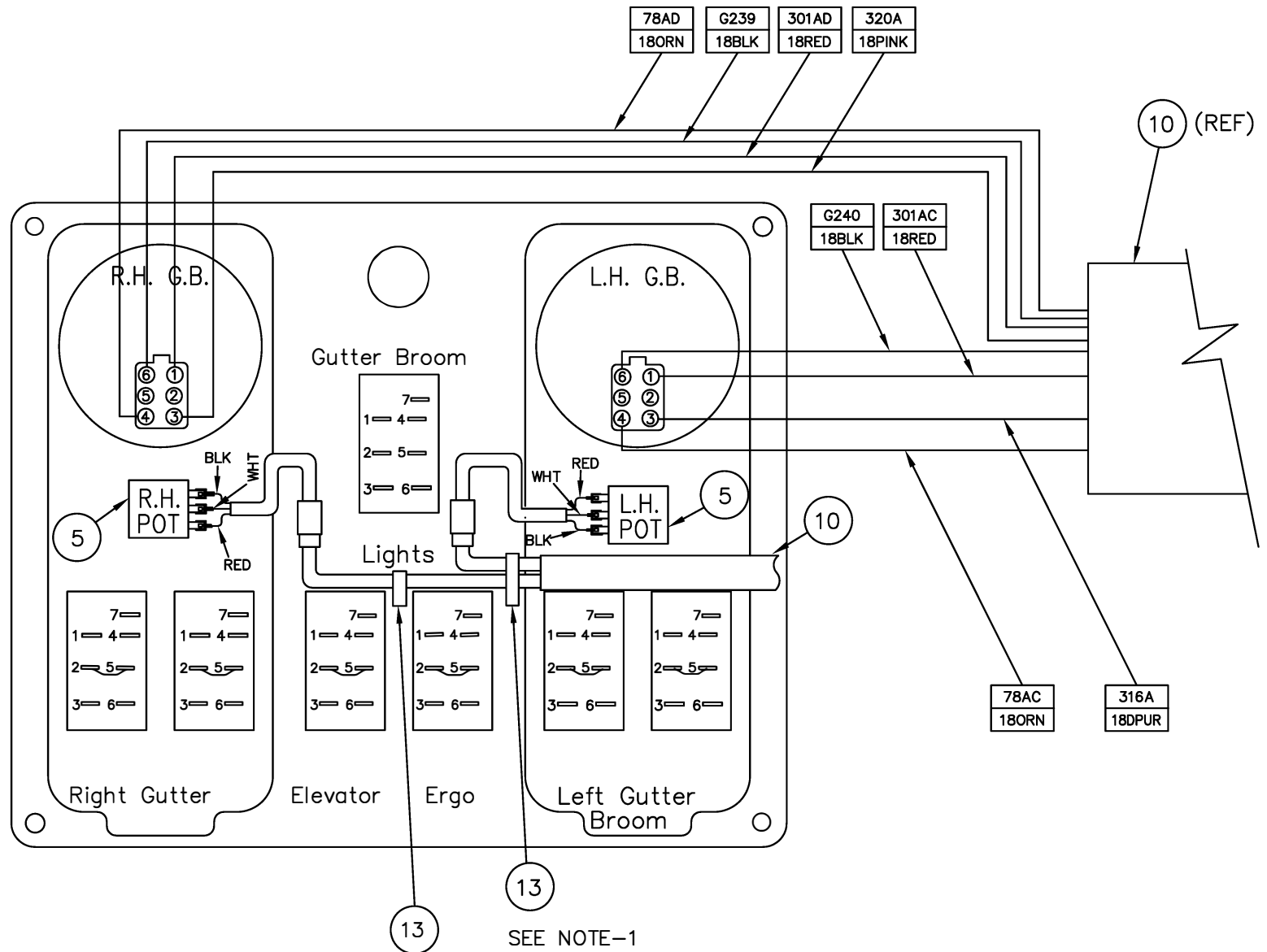


Front Console Panel Assembly

CHAPTER 5

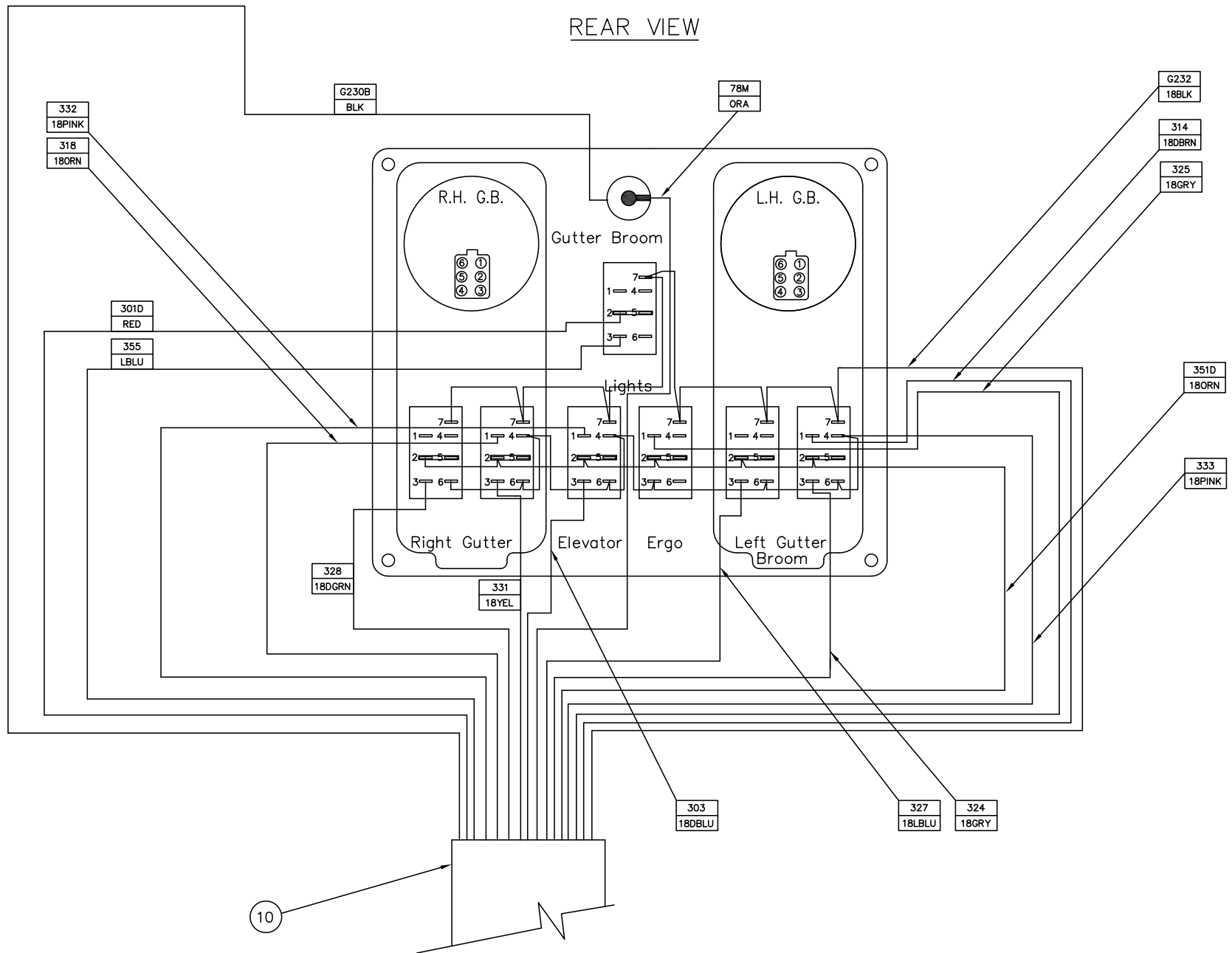
Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	331023	Front Console Panel Assembly	1	17	REMOVED	REMOVED	1
1	320253	Front Console Panel	1	18	324639	Plate, Cover	1
2	317652	Gauge, Temp 100-280 Deg F	1	19	316569	Hole Plug	2
3	058580	Gauge-Oil Pressure	1	20	315785	Bezel---Dashboard	1
4	058582	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:

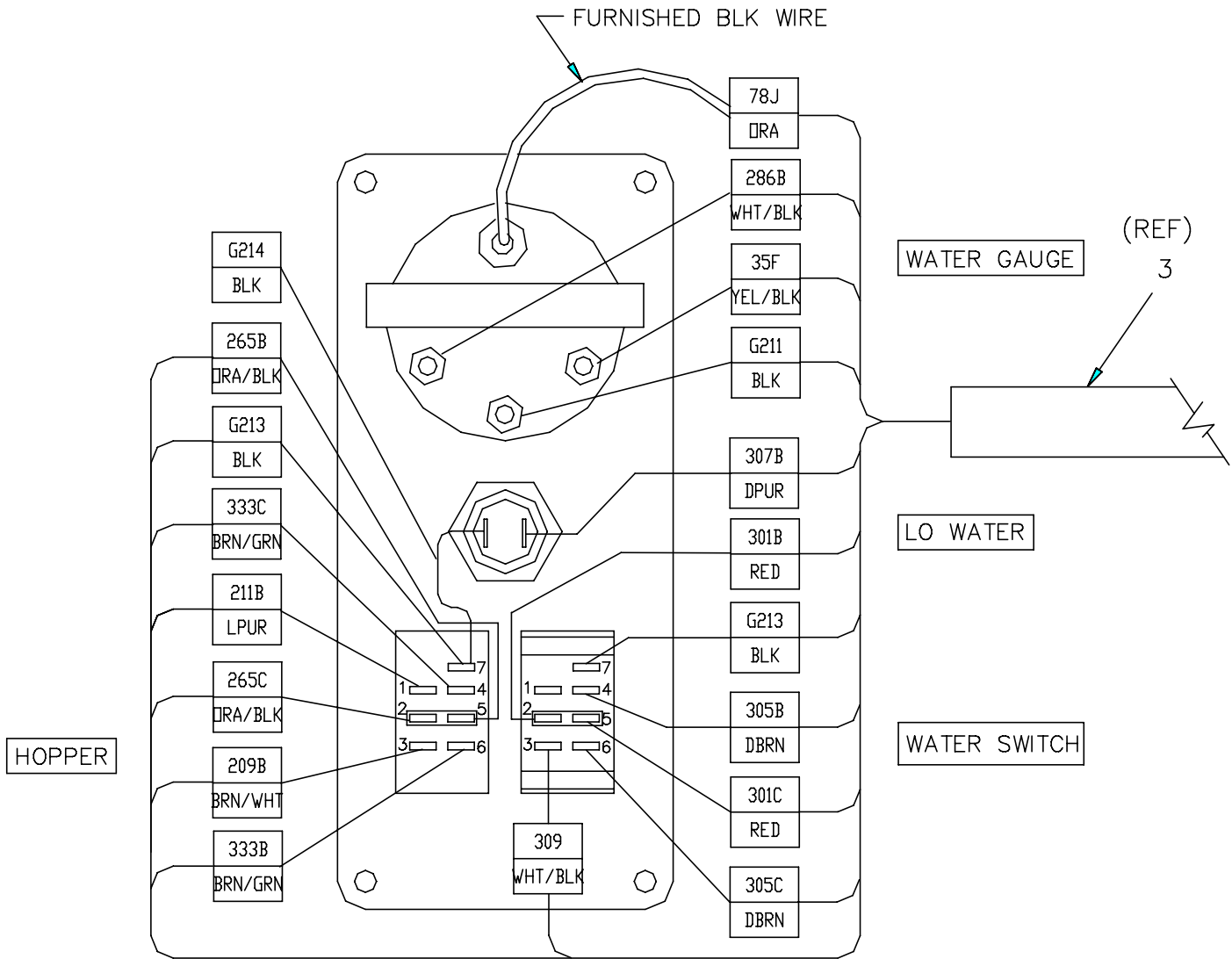
1. TIGHT CABLE BRANCHES TO SWITCH WIRES.



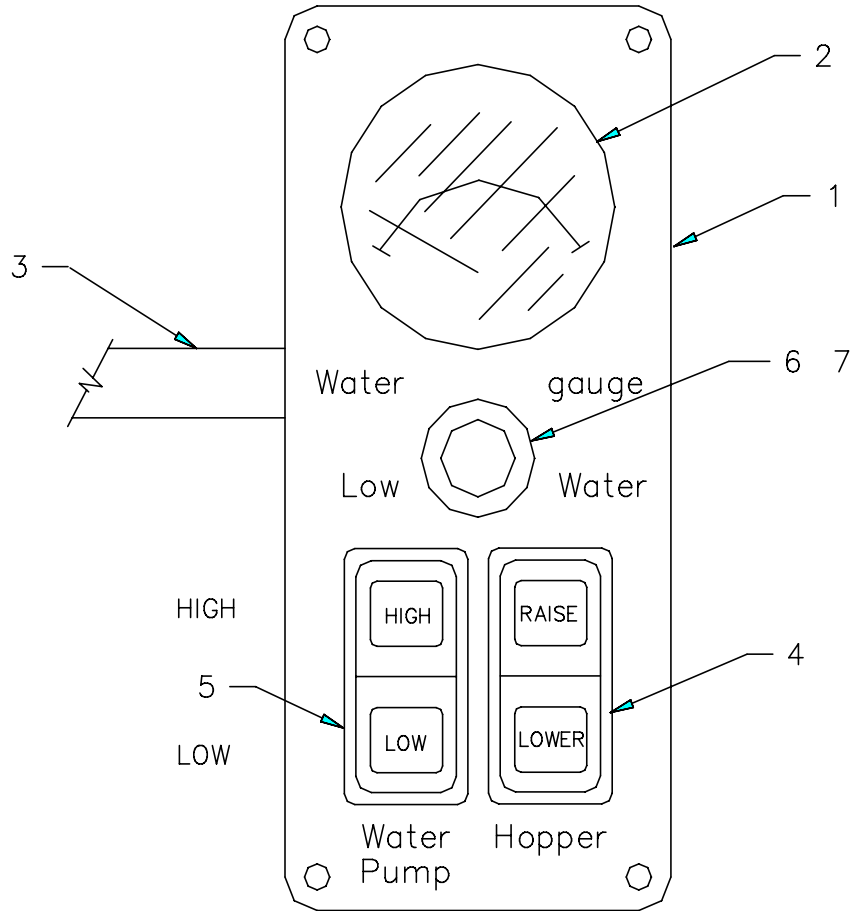
10



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	302189	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				



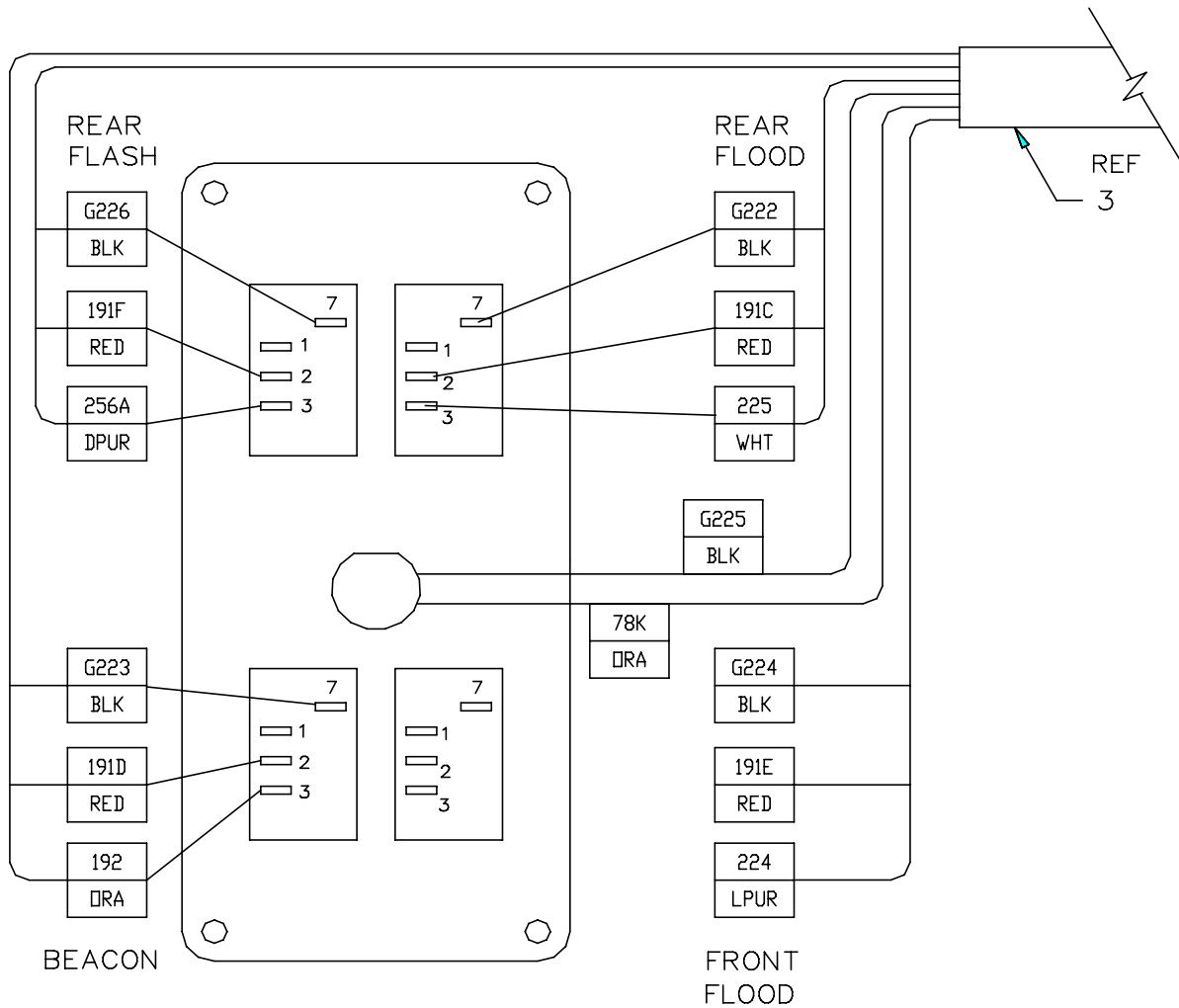


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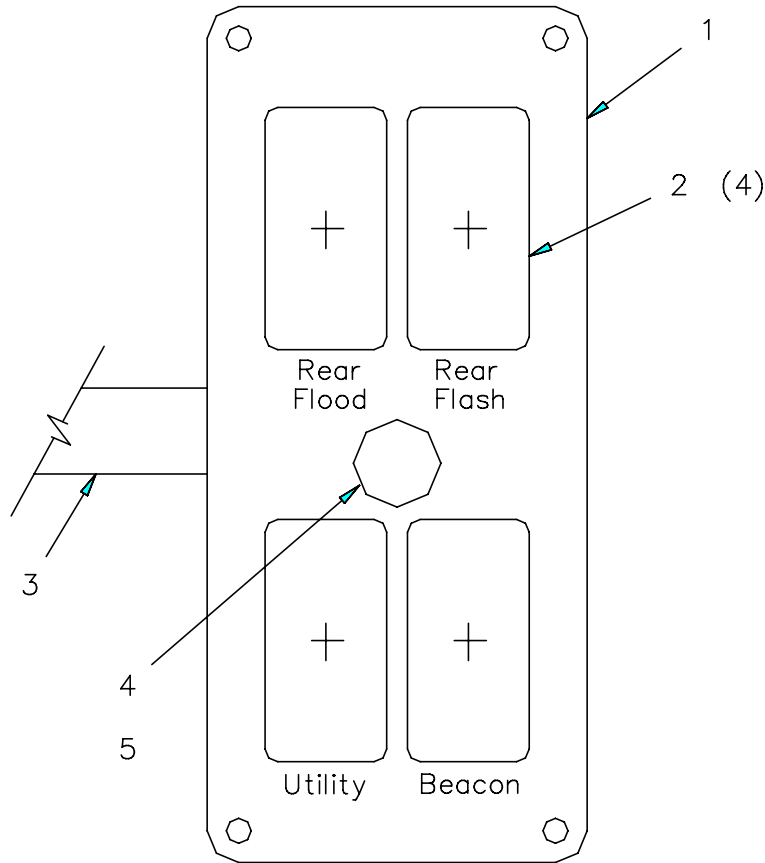
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REAR VIEW OF PANEL

NOTE:

1. MISSING COMPONENTS FOUND ON "OPTIONS".



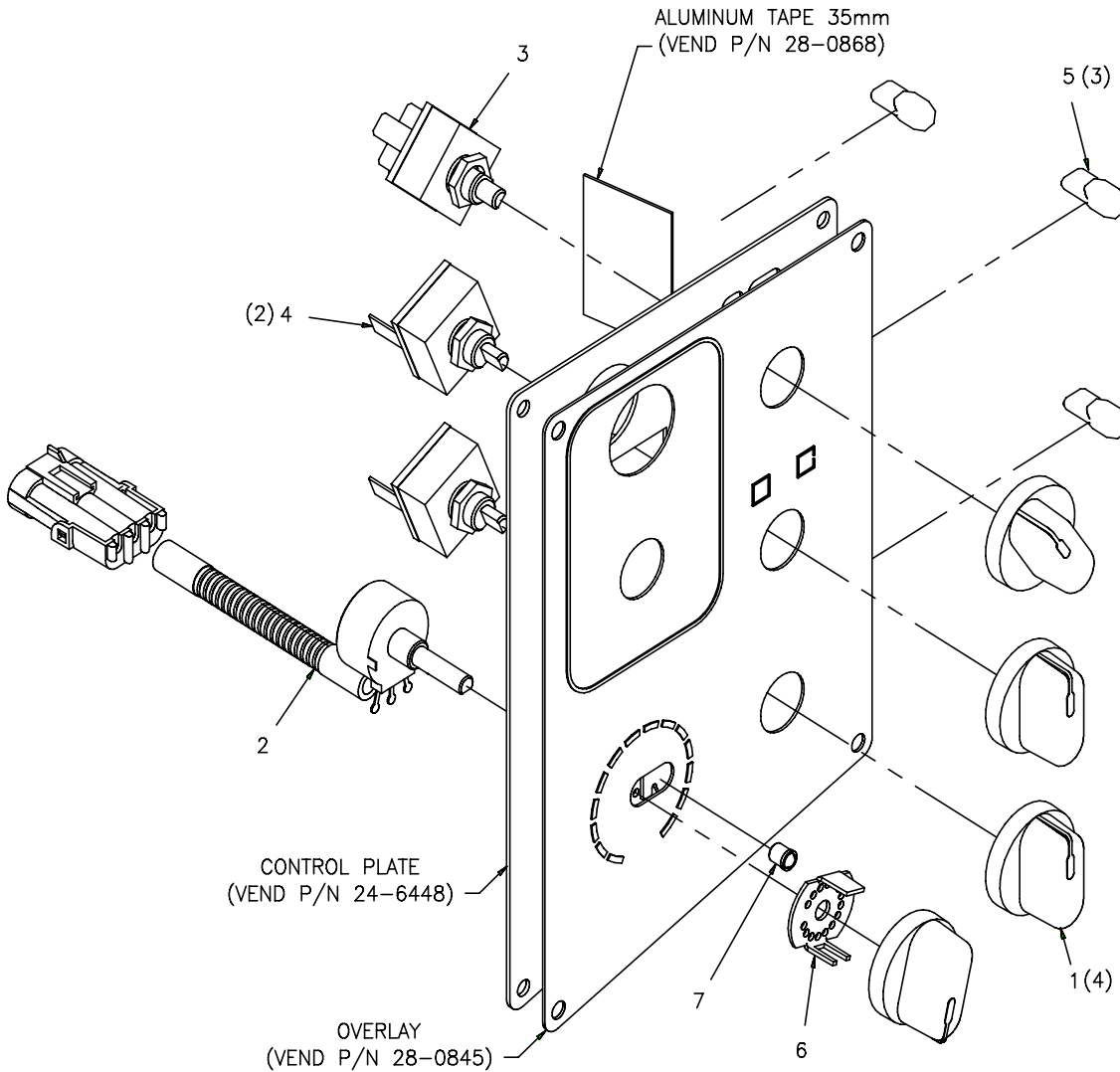
FRONT VIEW OF PANEL

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				



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

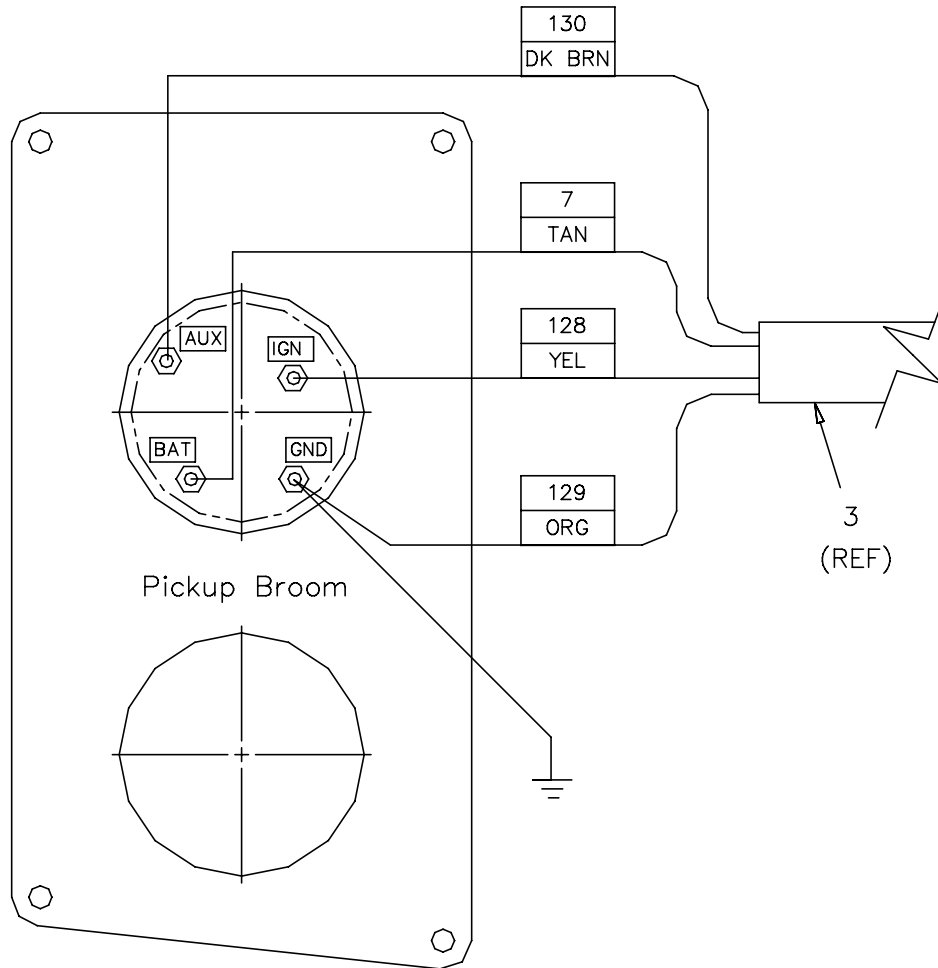
Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	381935	A/C & Heater Panel Assembly	C Ref	6	381962	Disc (Temp)	1
1	381937	Knob	4	7	381963	Push Fit Plunger	1
2	381936	Potentiometer Assy, Temp	1	8	382267	Harness, Water Valve	1
3	381938	Switch, Blower	1	9	381943	Harness, Jumper	1
4	381939	Switch,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



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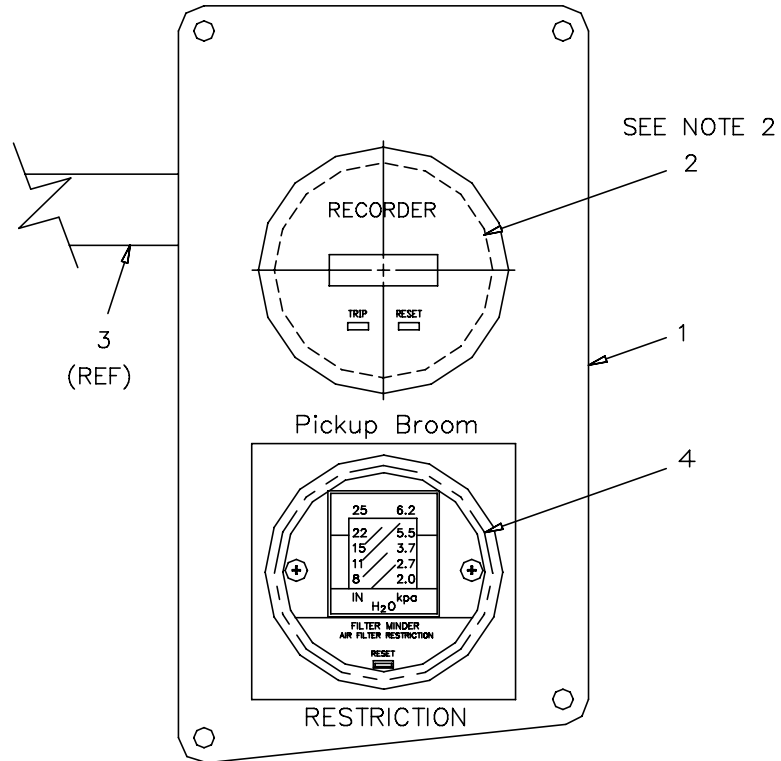
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REAR VIEW OF PANEL

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

NOTES:



FRONT VIEW OF PANEL

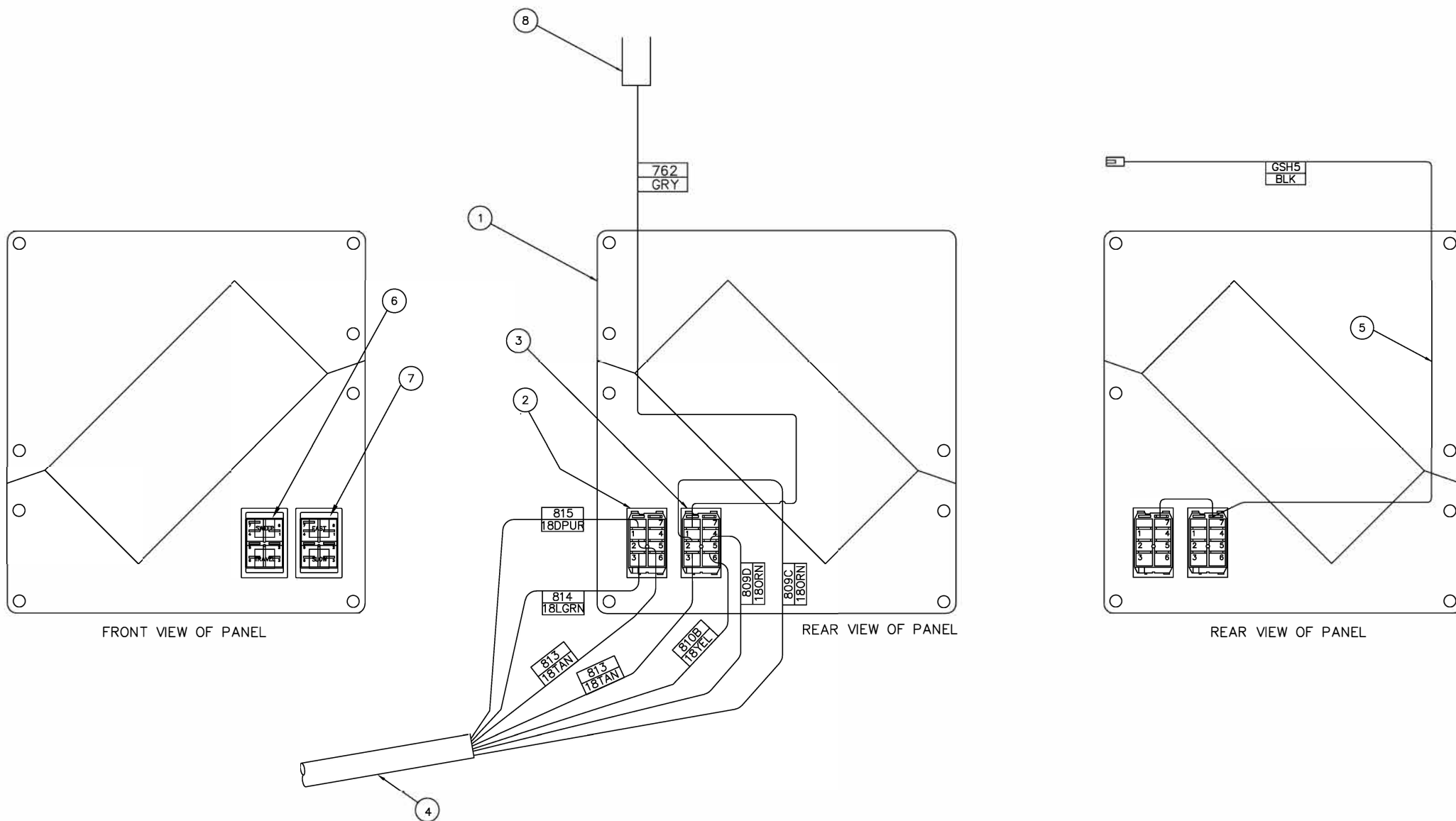
NOTE:

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				



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NOTE: REMOVE JUMPER 2-5 IN THE SWITCH 331041



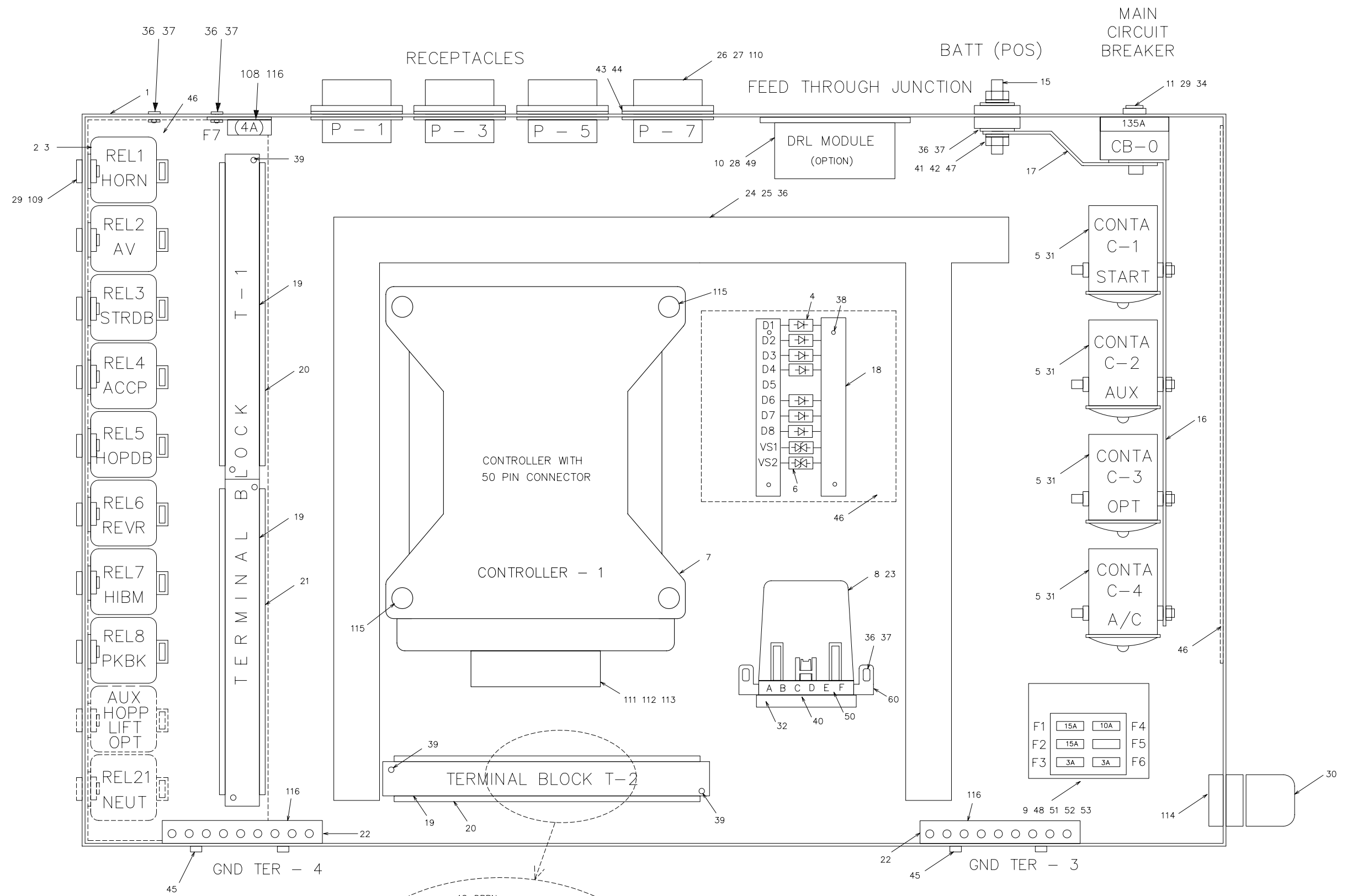
Itm	Part Number	Description	Qty
1	353640	SHIFT LEVER OVERLAY,LEXAN LAMINAT.	1
2	320341	SWITCH ROCKER, IDLE DIAG/PTO, RPM	1
3	320342	SWITCH PTO ON/OFF	1
4	328765	HARNESS,CONTROL SWITCHES,MX3J	1
5	329114	WIRE ASSY. PNL-GND, M3JD	1
6	353613	LABEL, TRAVEL/SWEEP	1
7	353614	LABEL, RPM FAST/LOW	1
8	330274	HARNESS,SAU.DRV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



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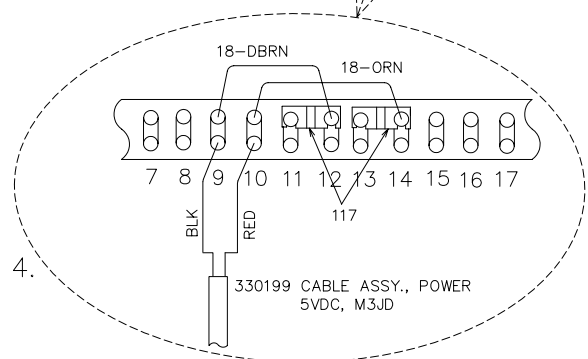


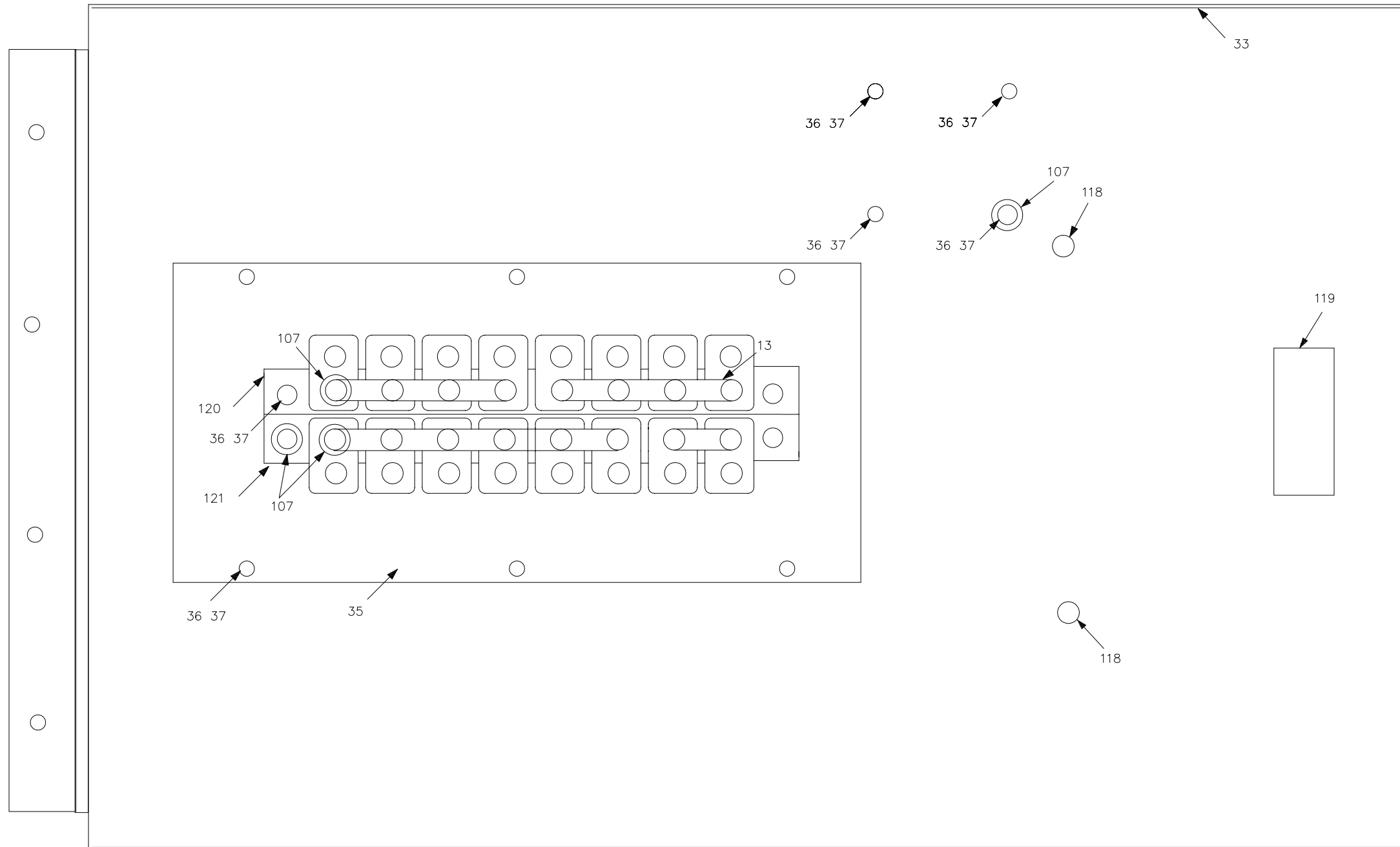
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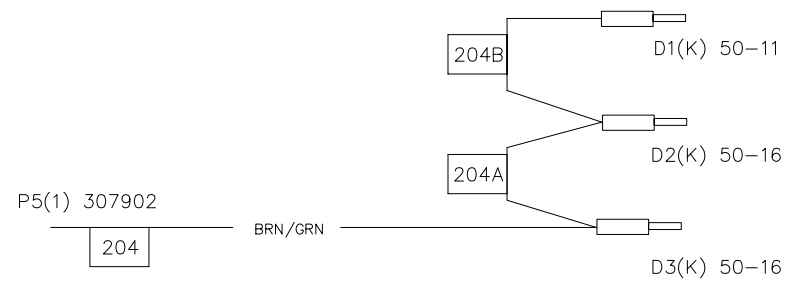


1. APPLY THREADLOCKER-REMOVABLE P/N 896796 TO LOCK CONTACT SCREWS ON THE GND-TER 3 & 4.

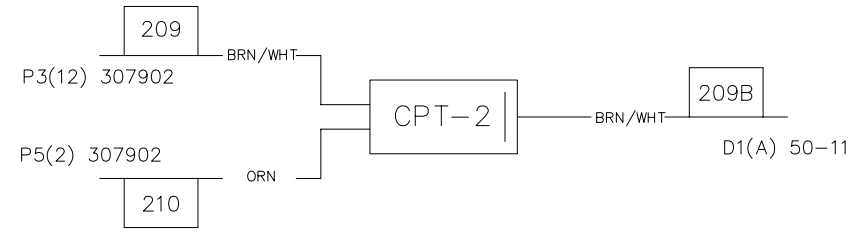
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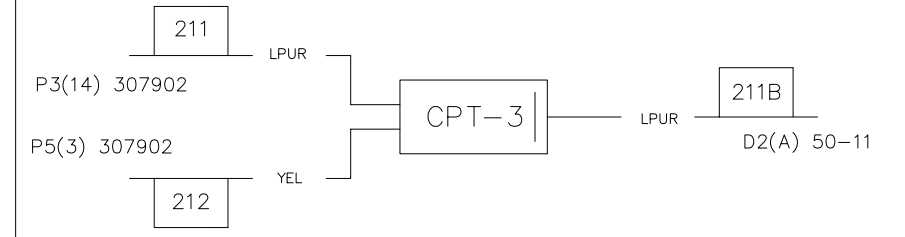




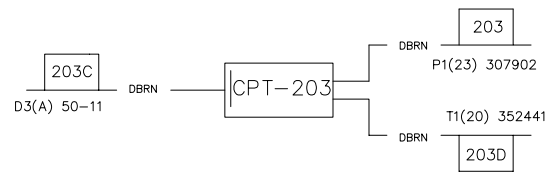
ASSY #1



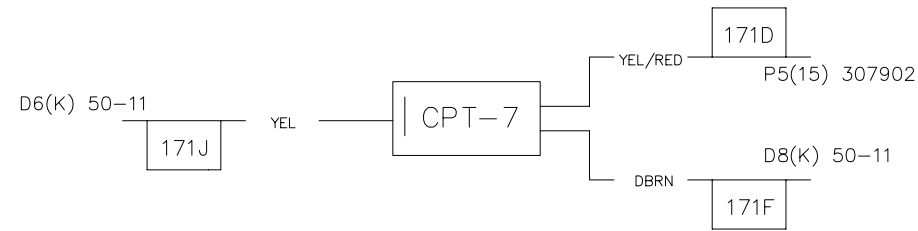
ASSY #2



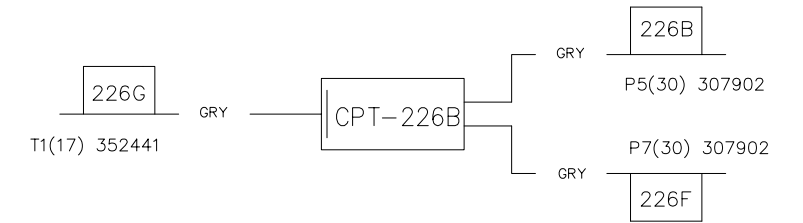
ASSY #3



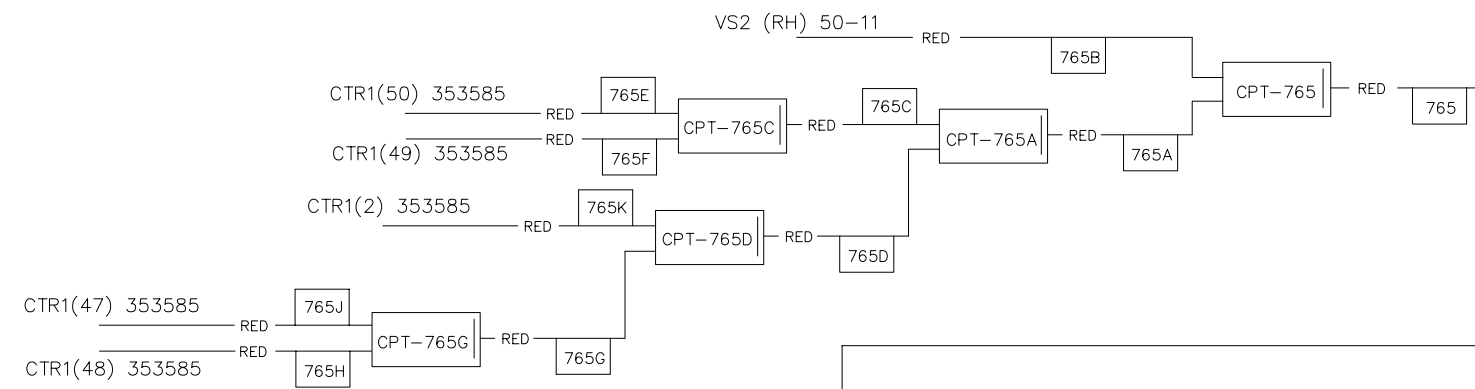
ASSY #4



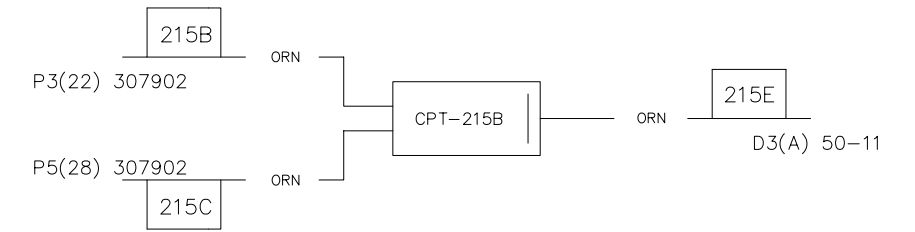
ASSY #5



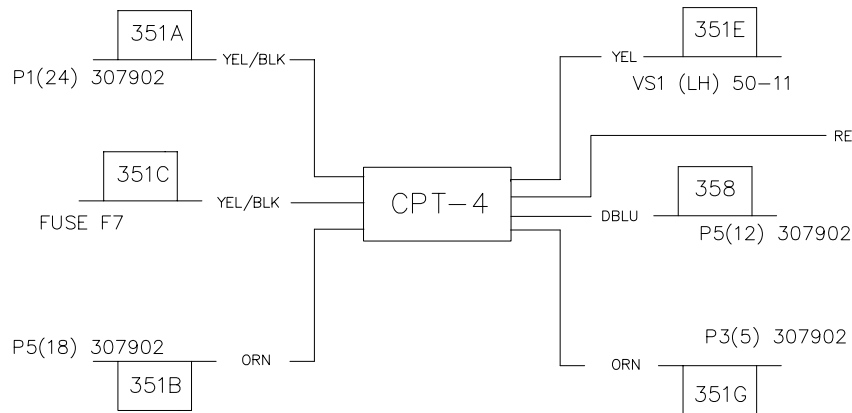
ASSY #6



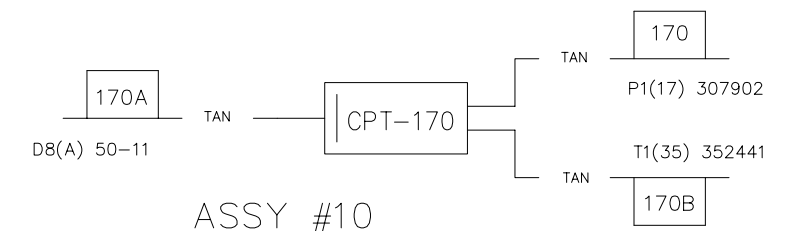
ASSY #7



ASSY #8



ASSY #9



ASSY #10



ASSY #11



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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				
97	315285	Connector-Butt, 10-12 Ga (Aq)	3	109	031428	SCR-HXHDPLTD 1/4-20X1/2 GR8	10
98	315507	Conn Butt 14-16/10-12stepup (Am)	6	110	307899	SEALING PLUG (CU)	44
99	352431	Permaseal Term#10,16-14ga (Na)	31	111	327617	PLUG DRC, 50S01	1
100	352432	Permaseal Trm, Tab 1/4, 16-14 (Nb)	8	112	353585	SOCKET CONTACT, 20GA GOLD (LR)	42
101	352441	Permaseal Term-Ring #6, 16-14	52	113	317875	PLUG	8
102	352443	Permaseal Term, Ring 5/16, 12---10	2	114	326284	LOCKNUT PG-36, PLASTIC	1
103	352444	Permasl Term, Ring#10, 12---10(M)	2	115	327585	SCR-PAN HD, PHL, 1/4-12X2-1/4	52
104	324875	Wire Marker Booklet	0	116	327857	SCR SET 1/4-28X3/8 SLT OMLPSS	52
105	324879	Wire Marker Booklet, 1-45	0	117	300731	JUMPER BAR	2
106	896796	Threadlocker---Removable	0	118	327610	FINISHING PLUG 1/4"	2
107	352907	SLEEVE-SHRINK TUBE	0	119	327241	LATCH, FLUSH-ECU BOX	1
108	18015-11	FUSE HOLDER (MV)	1	120	323752	CIRCUIT BREAKER ASSY	1
				121	317491	CIRCUIT BREAKER REWORK	1
				122	897280	RUBBER, CLOSED CELL 3/8W X 1/8T	1



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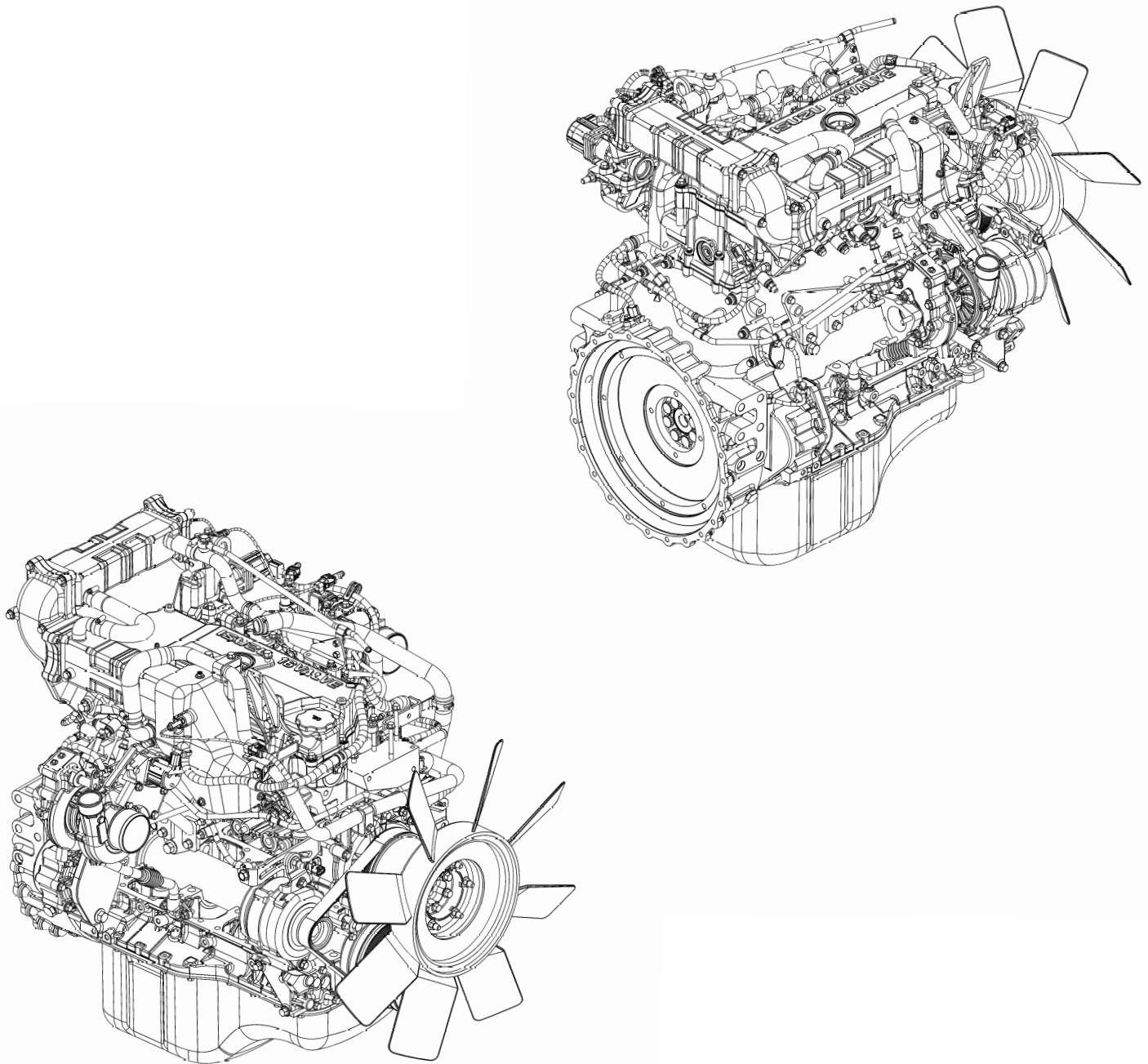
Group--Engine

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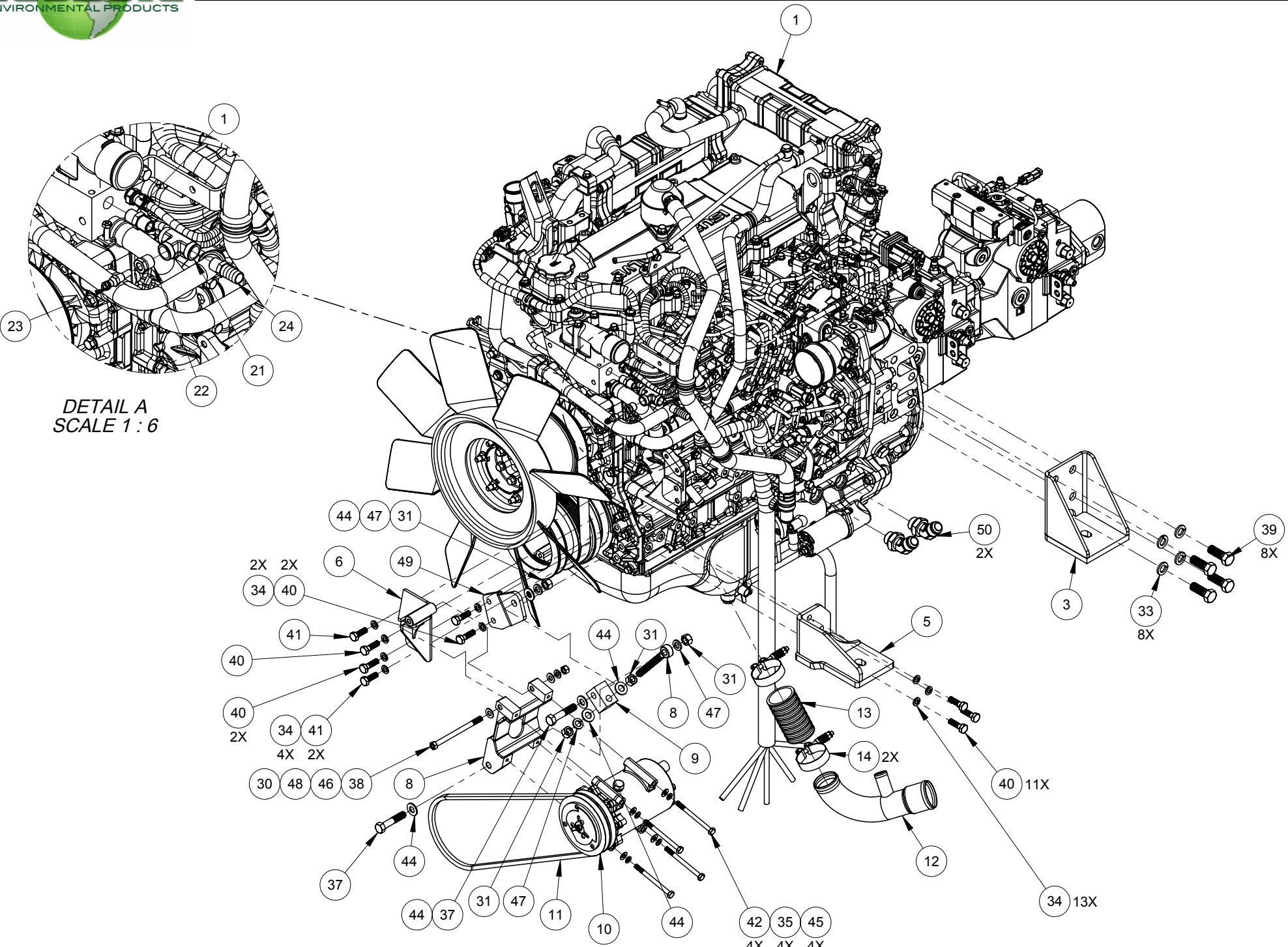
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Engine	6.2
Engine Assy.....	6.4
Engine Pump	6.9
Fuel tank Assembly.....	6.16
Fuel Tank Installation	6.17
Catalyst Installation.....	6.20
Air Cleaner Installation	6.22
Radiator Installation	6.25
Charge Air Cooler.....	6-29

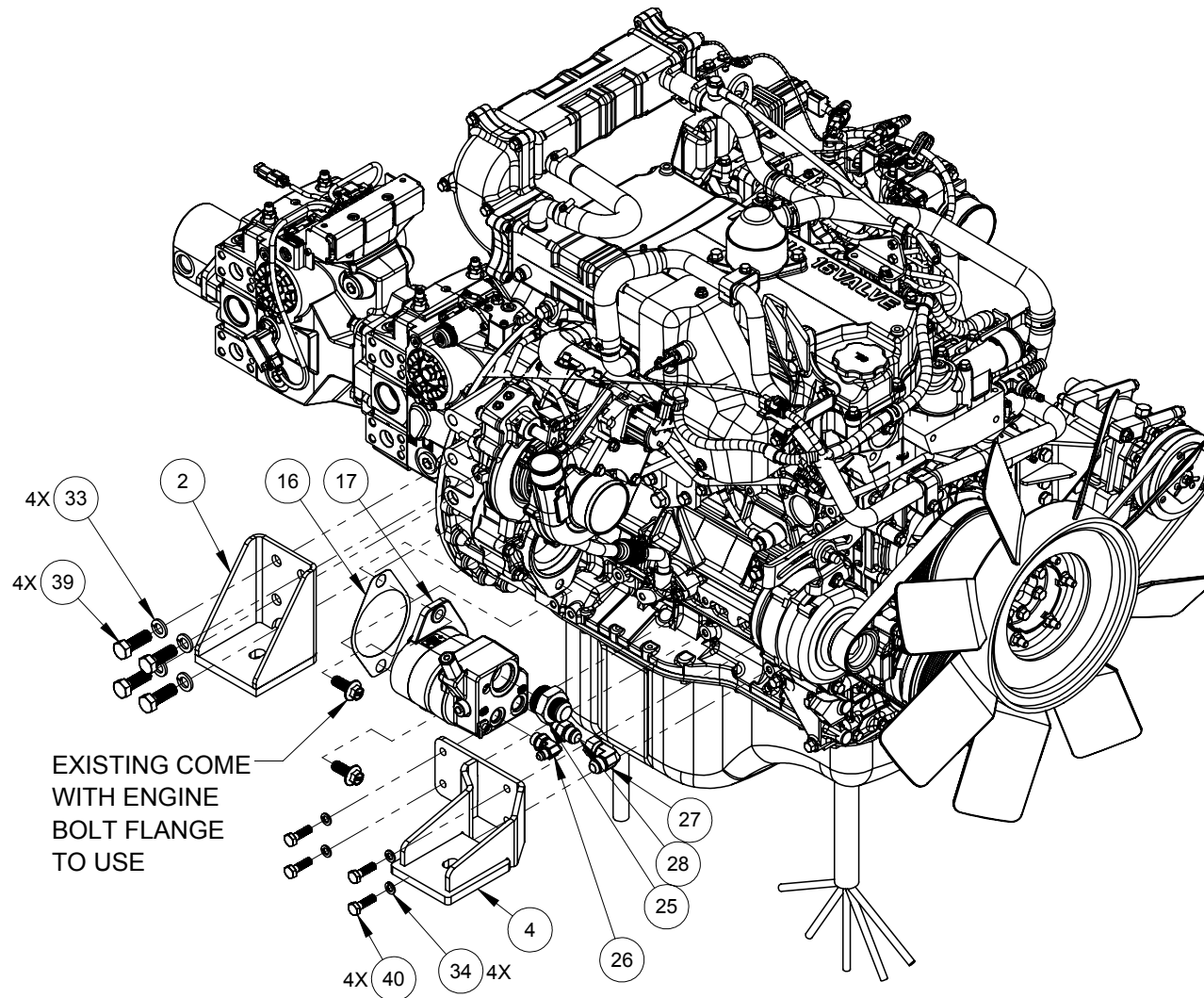
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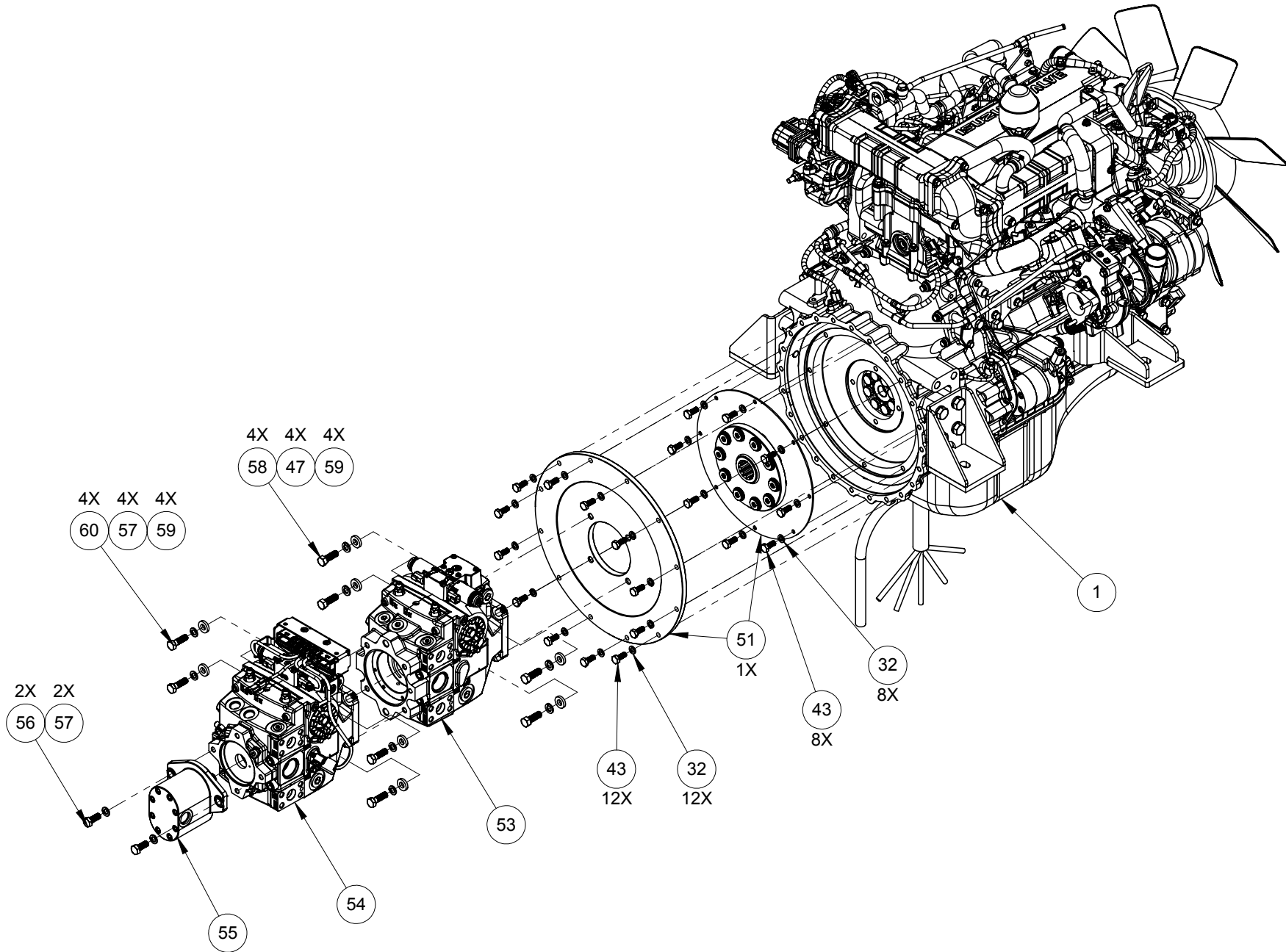
6



ITEM #	Part number	Description	QTY
REF	332210	ENGINE, ISUZU TIER4 AR-4HD1X	REV 1
1	335416	DIPSTICK	1
2	335417	WATER PUMP	1
3	337545	COOLING FAN	1
4	335408	STARTER	1
5	335409	ALTERNATOR	1
6	335410	SENSOR; OIL PRESSURE	1
7	335411	COOLANT TEMP SW	1
8	335412	COOLANT TEMP SENSOR	1
9	335300	HEAD, OIL FILTER	1
	335415	<i>ELEMENT, OIL FILTER</i>	
10	335286	PRE FUEL FILTER ASSY	1
	335413	<i>ELEMENT, PRE FUEL FILTER</i>	
11	335414	MAIN FUEL FILTER	1
	335287	<i>ELEMENT, MAIN FUEL FILTER</i>	
12	335488	FAN BELT	1
13	335489	FAN PULLEY	1

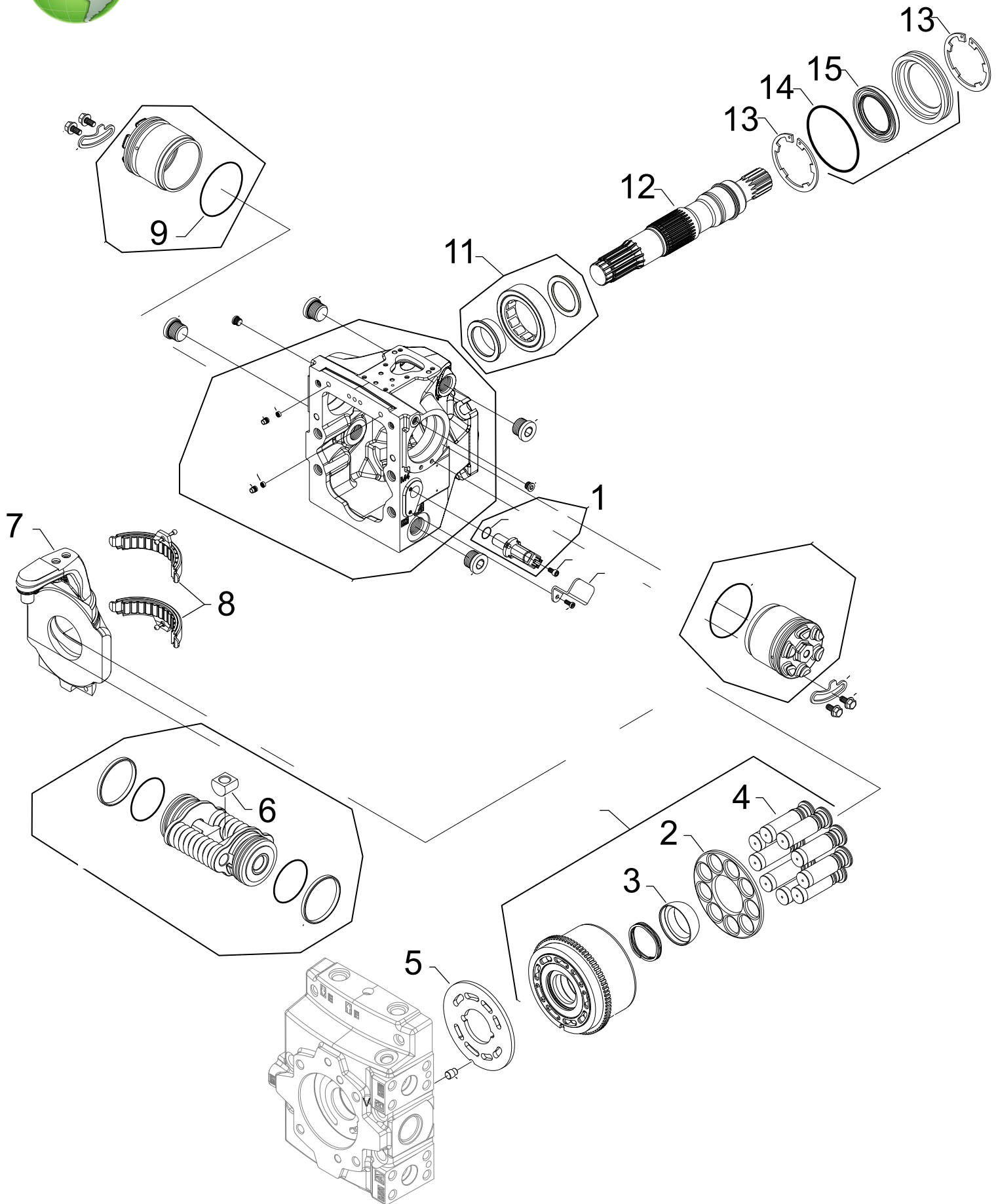


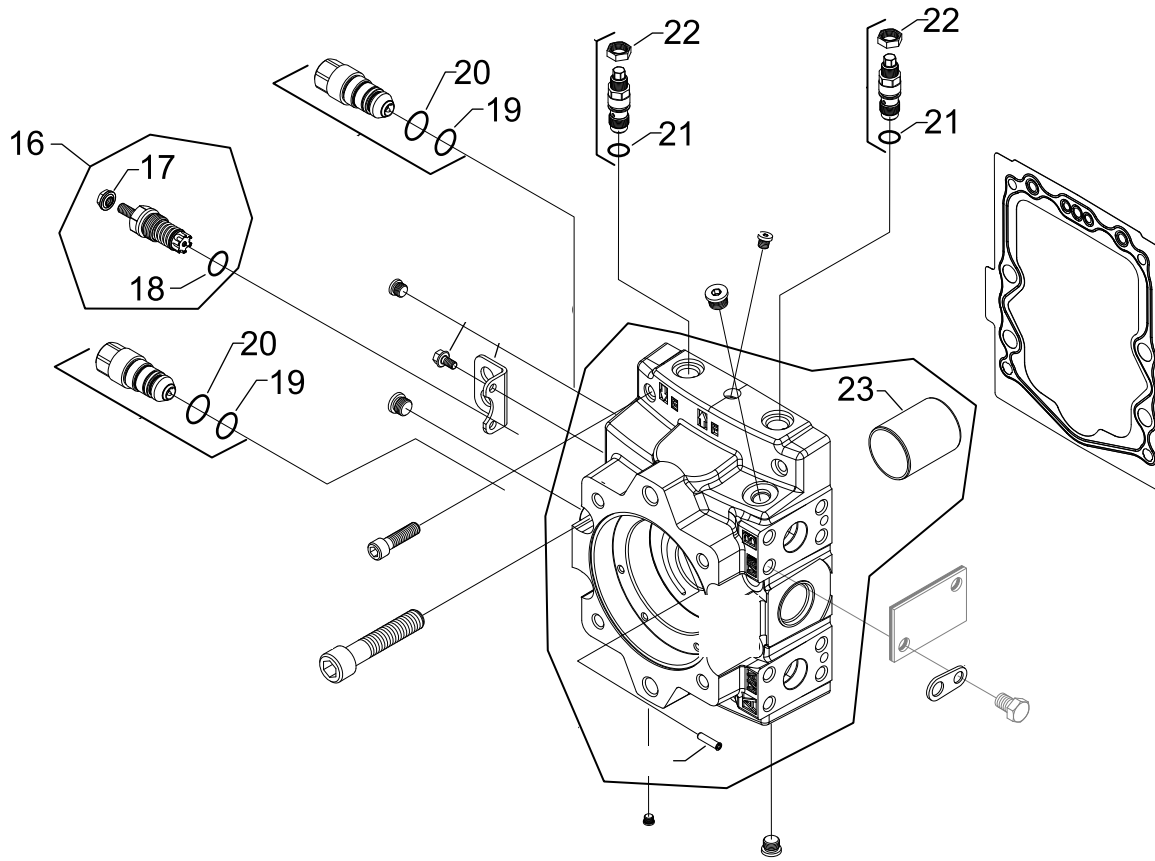


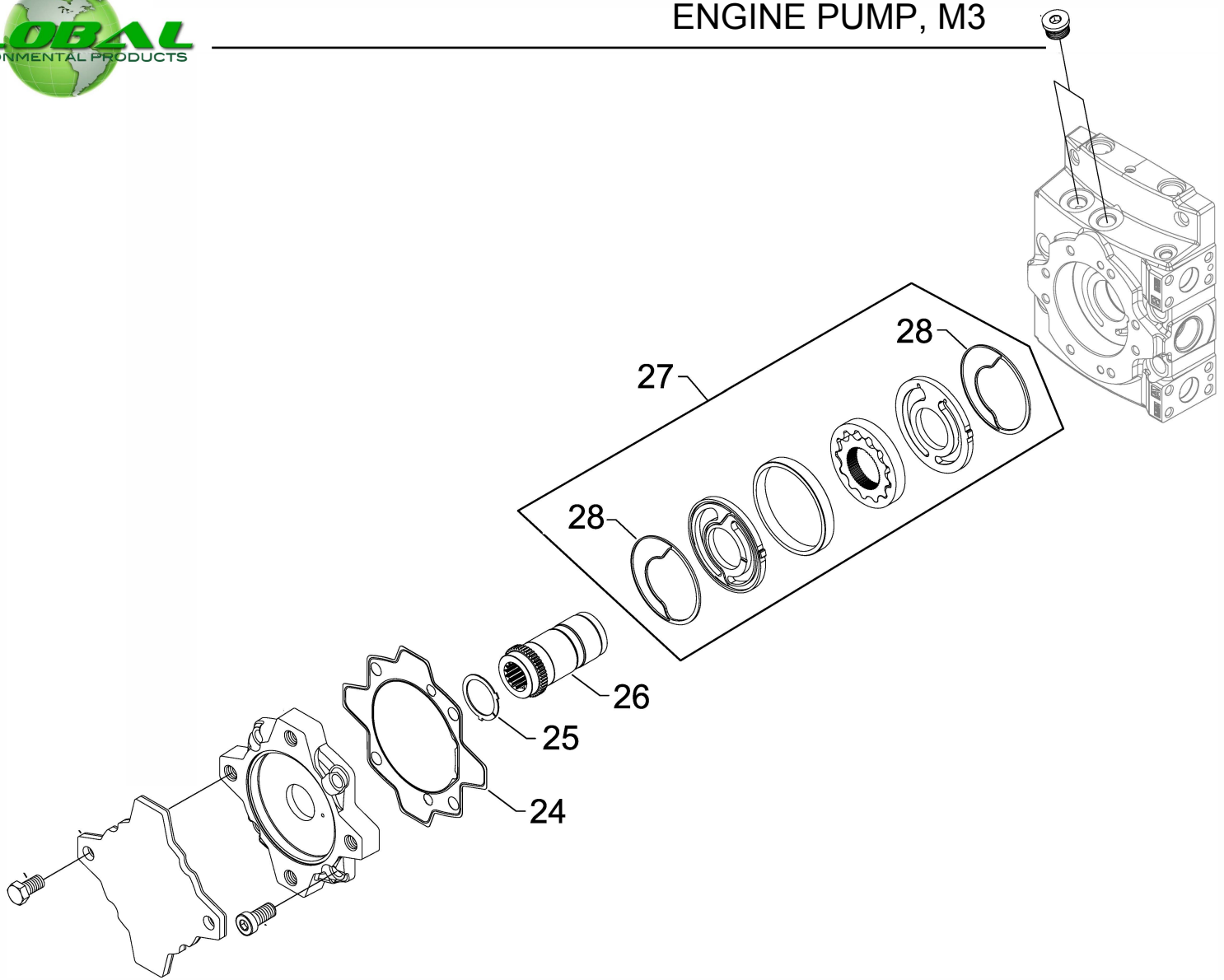


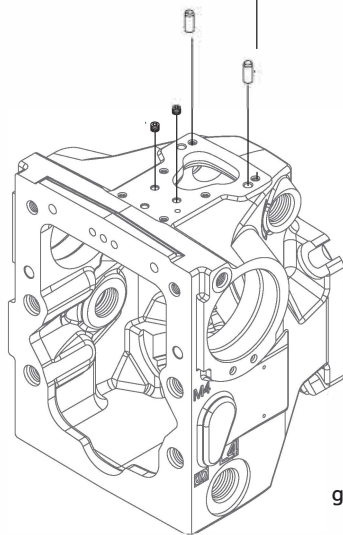
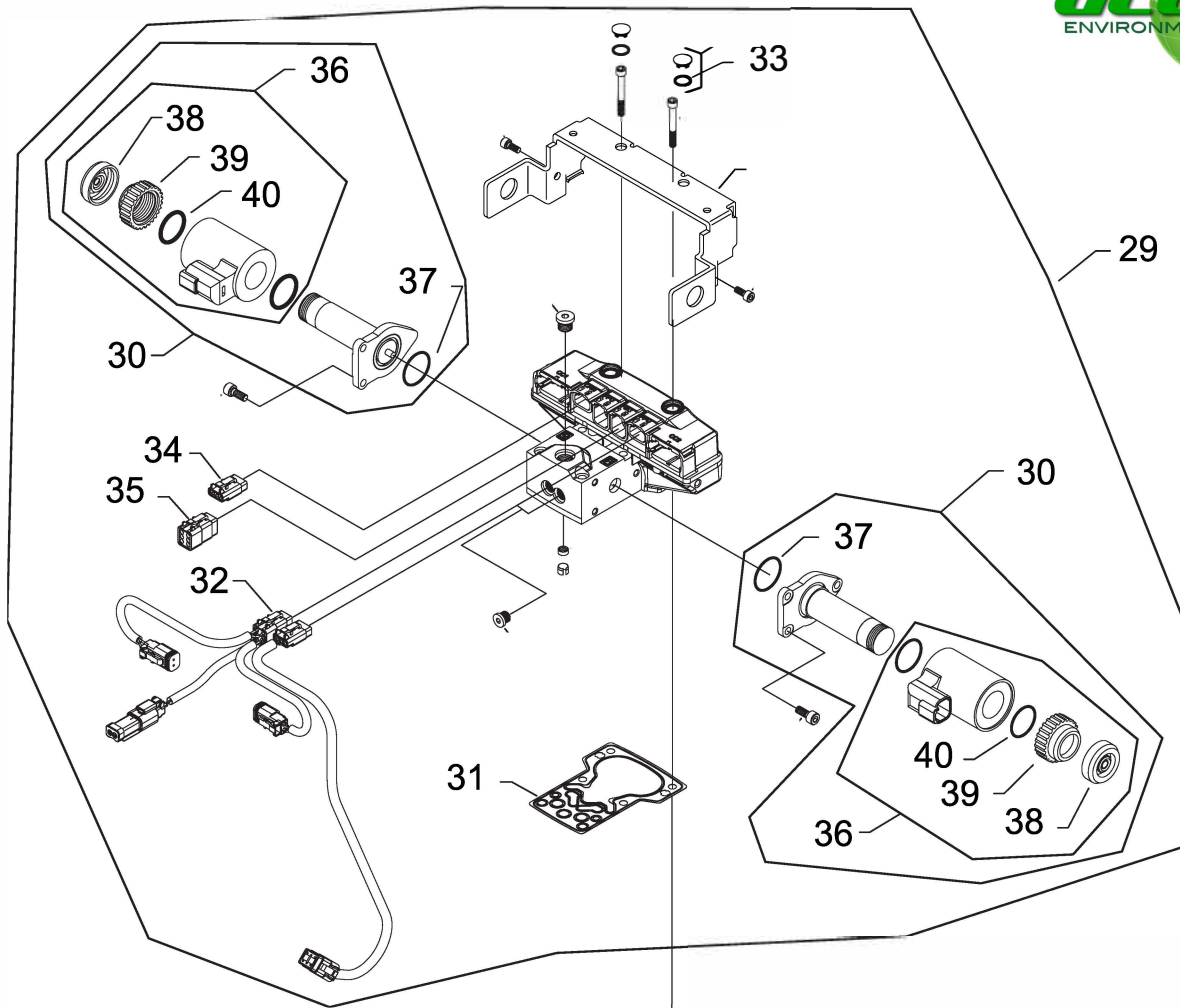
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
REF	332551	ENGINE ASSY	REV 1
1	332210	ENGINE ISUZU 4HK1	1
2	332030	MOUNT ENGINE FRONT, (RH) SIDE, WLDMT (R3AIR)	1
3	332031	MOUNT ENGINE FRONT, (LH) SIDE, WLDMT, (R3AIR)	1
4	332131	BRKT ENGINE FRONT, (LH) SIDE, WLDMT, (R3AIR)	1
5	332135	BRKT ENGINE FRONT, (RH) SIDE, WLDMT, (R3AIR)	1
6	332139	MTG. BRACKET-A/C, WELDMENT	1
8	333736	STEEL ROD END, 1/2-13"UNC X 1/2" DIA X 5" LG.	1
8	332144	BRACKET-ADJUST A/C, WLDMT, (R3AIR)	1
9	332207	BLOCK-ADJUST, A/C	1
10	326036	COMPRESSOR A/C	1
11	333014	V-BELT, 1/2" X 52" OUTER CIRCLE	1
12	332999	COUPLING-COOLANT OUTLET, WLDMT	1
13	896731004	HOSE SILICONE, 2" ID X 4" LG	1
14	329713	CLAMP, HOSE, T-BOLT 2.25-2.56	2
16	338035	ISUZU DRAIN VALVE	1
16	305305	GASKET	1
17	332160	POWER STEERING PUMP, M3	1
19	353689	CLAMP,SILICONE,HOSE,SIZE #8	1
20	89660130	HOSE 5/8 ID SILICONE, 30" LG.	1
20	10065	NIPPLE 3/8 HEX NPT	1
21	82030	TEE, FNPT-06 X 06 X 06	1
22	82653	FITTING,HYD,STR,MNPT-06XFNPT-02	1
23	317653	SENDER-TEMPERATURE	1
24	313984	NIPPLE, 3/8 NPT X 5/8 HOSE	1
25	301053	MB-MJ-20-16	1
26	205791	ELBOW MB-MJ90-8-6	1
27	251975	ELBOW MJ-FJX90-10	1
28	204272	FITTING,HYD,STR,MORB-10 X MJIC-10	1
29	034425	NUT, HEX, 3/8-16-UNC,HEAVY	1
30	90093	NUT, HEX, 3/8-16-UNC	1
31	030596	NUT, HEX, 1/2-13-UNC	4
32	251468	WASHER,SPRING LOCK,Ø M10	22
33	90755	WASHER,SPRING LOCK,M16	8
34	460-11	WASHER,SPRING LOCK,Ø M10	13
35	381674	WASHER, SPRING LOCK,Ø M8	4
36	310156	WASHER,FLAT,Ø M10	2
37	305400	BOLT,HEX,HEAD,1/2-13-UNC x2 1/2"LG	2
38	332236	SCR. HX HD PLTD, 3/8"-16UNC X 5-1/4" LG. GR#8	1
39	208597	BOLT,HEX HEAD, M16x2.0x45mm lg.	8
40	310157	BOLT,HEX HEAD, M10x1.5x35mm lg.	11
41	124-171	BOLT,HEX HEAD, M10x1.5x30mm lg.	2
42	305392	BOLT,HEX HEAD, M8x1.25x100mm lg. (10.9ZP)	4

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
43	325695	BOLT,HEX HEAD, M10x1.5x25mm lg.	20
44	023687	WASHER,FLAT,SAE,Ø 1/2"	5
45	651420	WASHER,FLAT,Ø 5\16", SAE NARROW, 11/16" O.D.	4
46	038266	WASHER,FLAT,Ø 3/8",SAE NARROW	2
47	030592	WASHER,SPRING LOCK,Ø 1/2"	7
48	030605	WASHER,SPRING LOCK,Ø 3/8"	1
49	332208	PLATE-SUPPORT ADJUST, A/C	1
50	338495	ELBOW-45° FITTING ASS'Y, (R3AIR & M3I)	2
51	335117	HAYES ENGINE ADAPTOR, IZUSU	1
53	335122	FRONT PUMP, A3 SWEEPER	1
54	332896	M3 PUMP, VARIABLE DISPLACEMENT	1
55	335328	GEAR PUMP	1
56	312457	BOLT,HEX HEAD, M12x1.75x30mm lg.	2
57	312685	WASHER,SPRING LOCK,M12	6
58	033151	BOLT,HEX,HEAD,1/2-13-UNC x 1 1/2"LG	4
59	335864	WASHER OVERSIZED, 1/2"ID	8
60	312062	BOLT,HEX HEAD, M12x1.75x40mm lg.	4









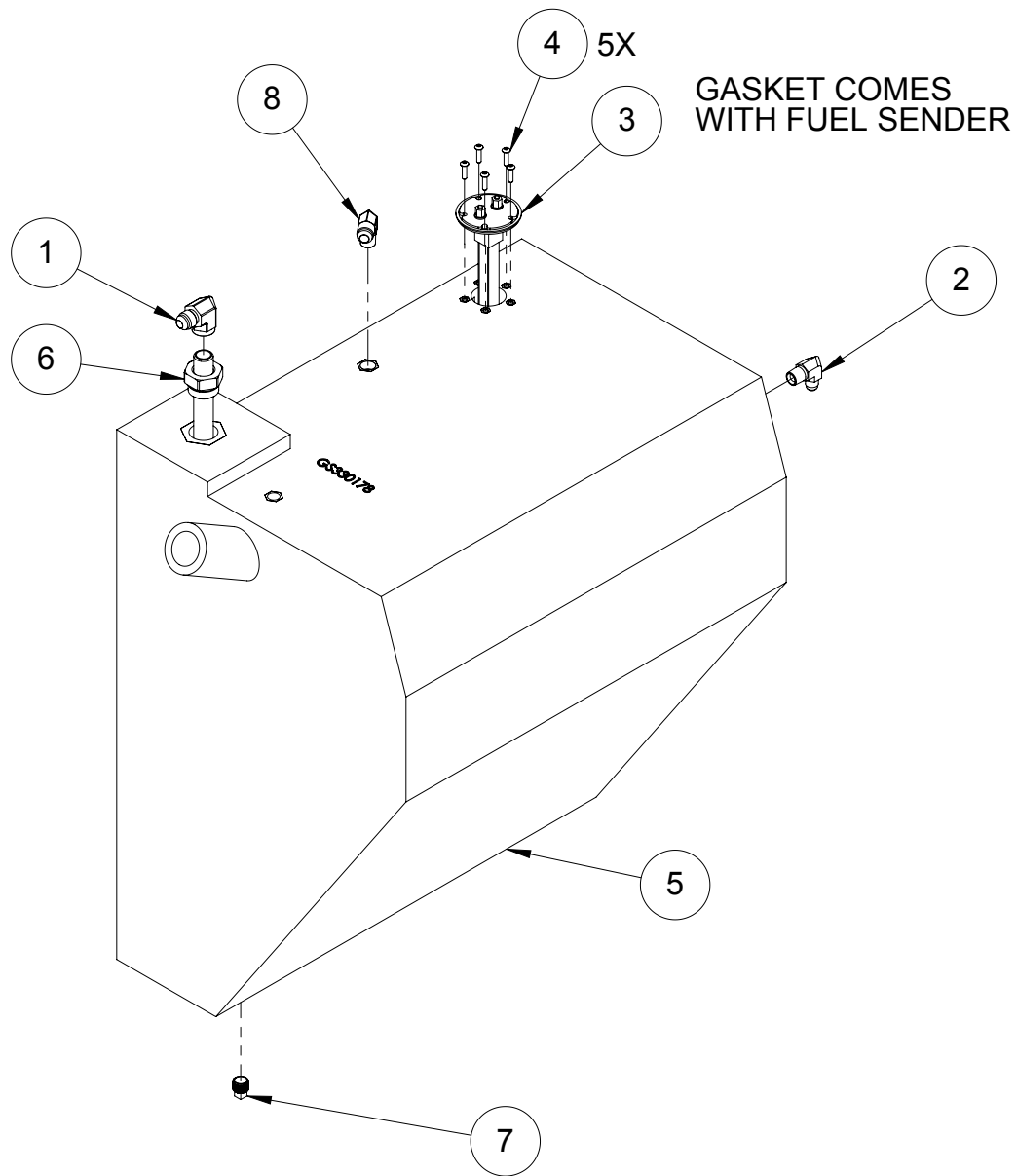
generic housing shown

ITEM #	PART #	DESCRIPTION	QTY
REF	332896	PUMP, DANFOSS M3	REV A
1	333988	SPEED SENSOR	1
2	333870	SLIPPER GUIDE	1
3	333871	SLIPPER RETAINER BALL GUIDE	1
4	333878	PISTON ASSEMBLY KIT	1
5	333872	VALVE PLATE, CW	1
6	333869	SLIDER BLOCK	1
7	333873	SWASHPLATE	1
8	333874	SWASHPLATE BEARING KIT	1
9	333875	O-RING	2
10	333876	RETAINING RING	1
11	333879	BALL BEARING	1
12	333880	SHAFT, 14 TOOTH SPLINE	1
13	333881	RETAINING RING	2
14	333882	O-RING	1
15	333883	LIP SEAL	1
16	333900	CHARGE RELIEF VALVE KIT	1
17	333901	SEAL NUT	1
18	333902	O-RING	1
19	333903	O-RING	2
20	333904	O-RING	2
21	333905	O-RING	2
22	333906	NUT	2
23	333908	JOURNAL BEARING	1
24	333909	GASKET	1
25	333910	THRUST PLATE	1
26	333911	SHAFT	1
27	333912	CHARGE PUMP KIT	1
28	333913	SEAL RING	2
29	333915	CONTROL KIT, EDC, 12 VOLT, MOR	1
30	333916	SOLENOID VALVE	2
31	333922	CONTROL GASKET	1
32	333923	WIRING HARNESS	1
33	333924	O-RING	2
34	333925	CONNECTOR	1
35	333926	CONNECTOR	1
36	333917	COIL KIT, 12 VOLT	2
37	333921	O-RING	2
38	333918	CAP	2
39	333919	COIL NUT	2
40	333920	O-RING	2



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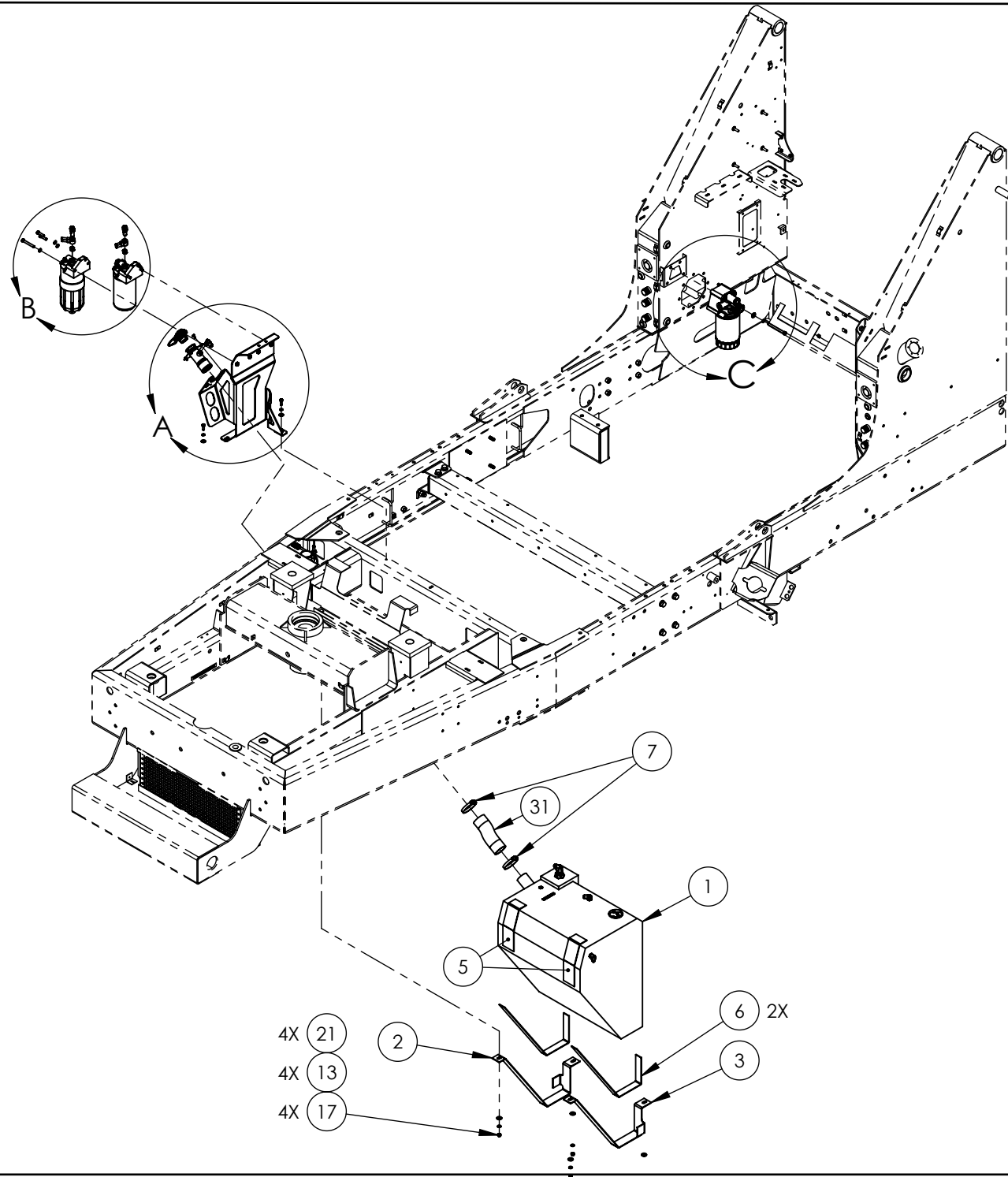


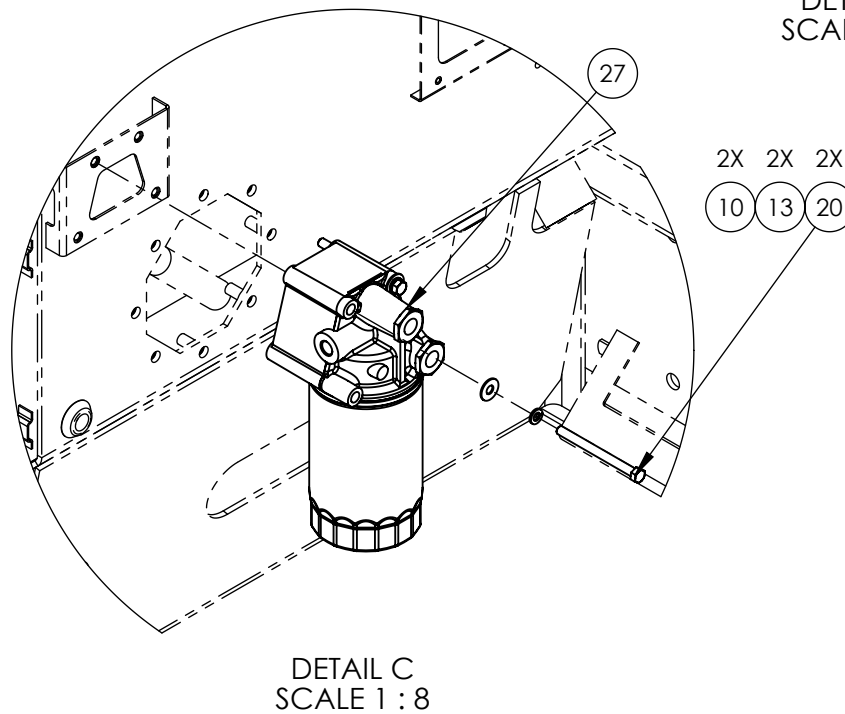
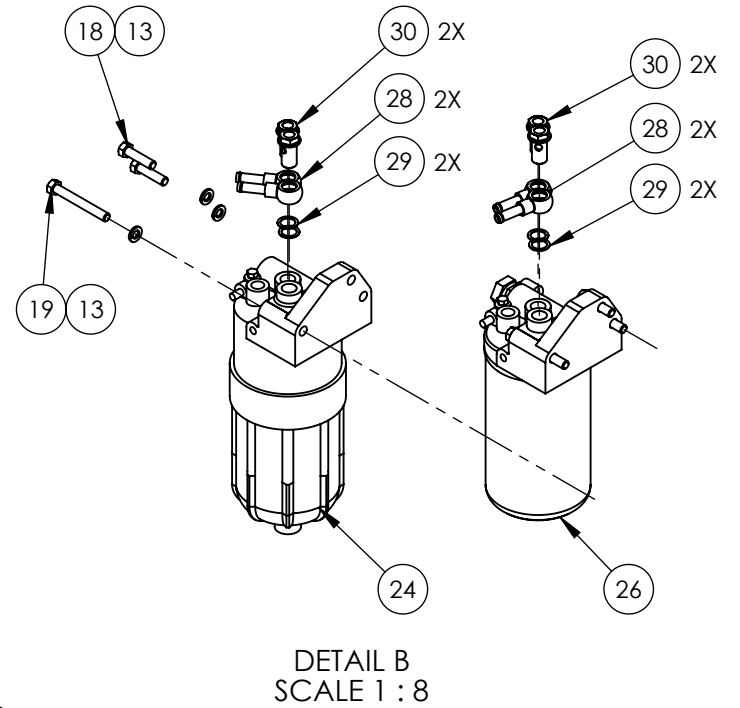
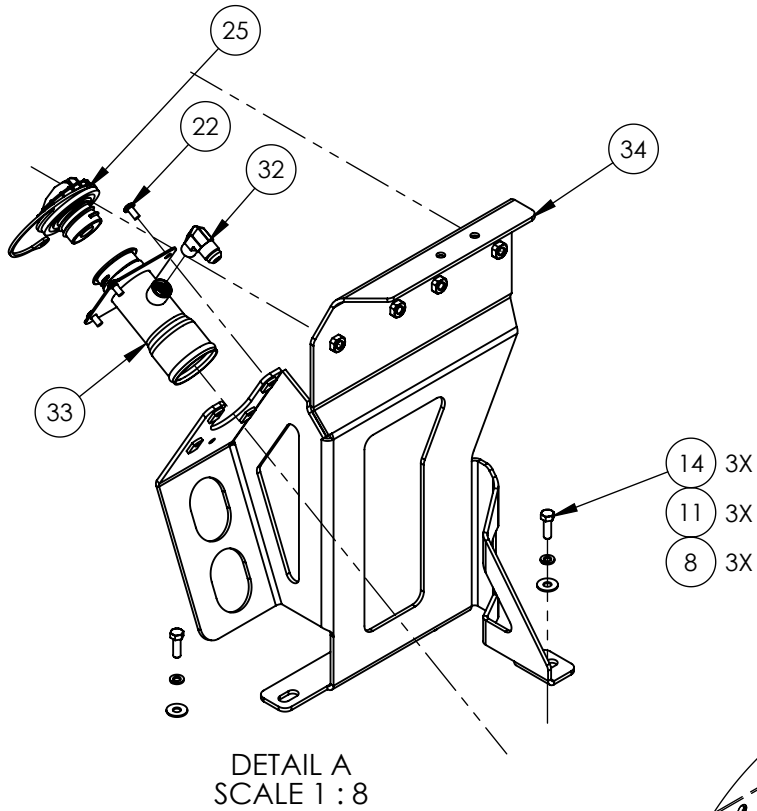
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
REF	335331	FUEL TANK ASSY	REV 1
1	329848	ELBOW-90 DEG, MJ-FNPT-8-8	1
2	033911	FITTING, HYD, STR, MNPT-06 X MJIC-06	1
3	E317112	SENDER, FUEL, RE-WORK (N)	1
4	317677	SCREW, BUTTON HEAD, SOCKET CAP, #10-32-UNC X 3/4" LG	5
5	330178	FUEL TANK, M3, PLASTIC	1
6	355147	HEX HEAD FUEL, WELDMENT	1
7	030251	FITTING, PLUG, SQUARE HEAD, MNPT-06 (3/8"), GALV.	1
8	332083	ELBOW-90 DEG, MJ-08 X MP-06	1



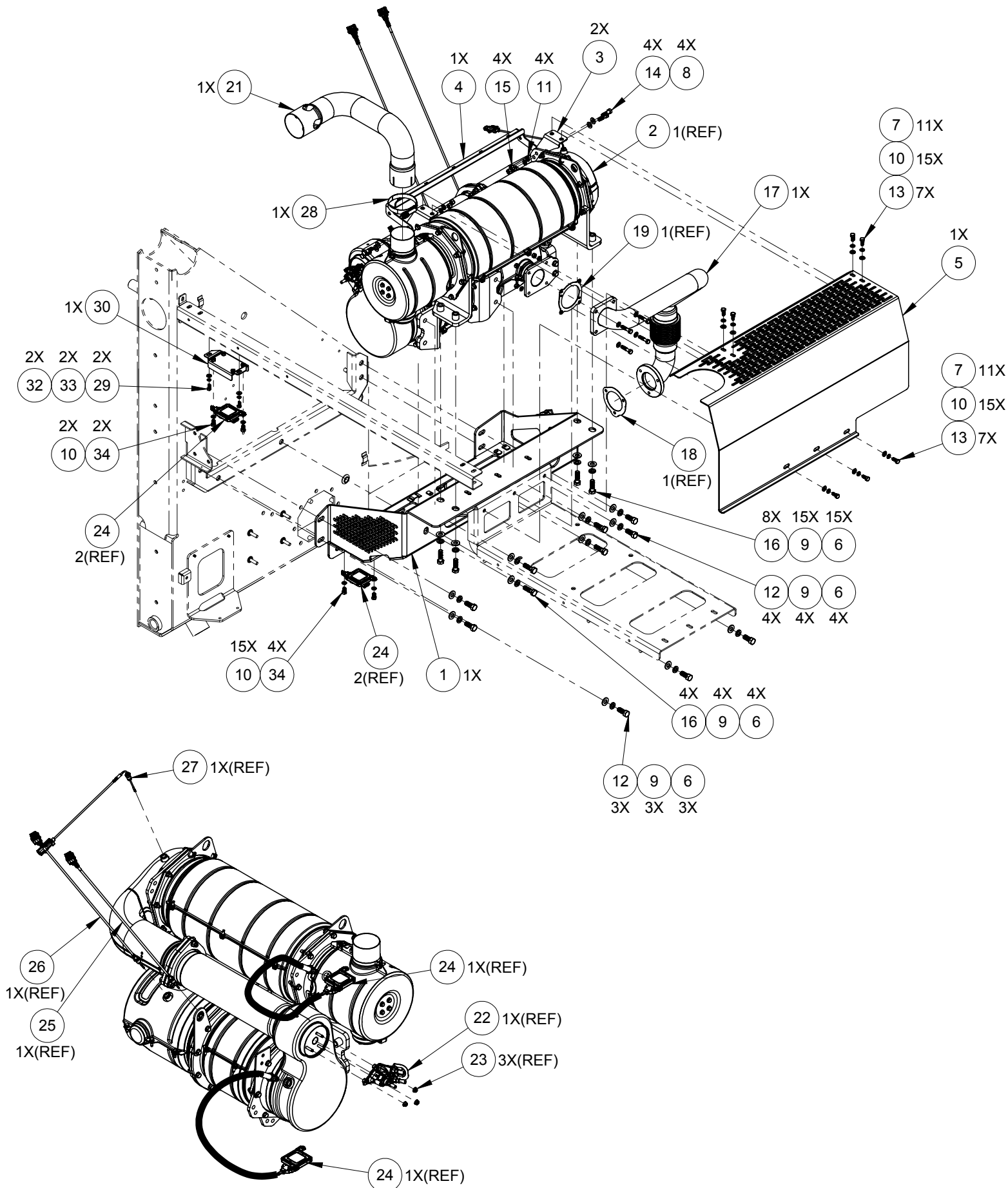
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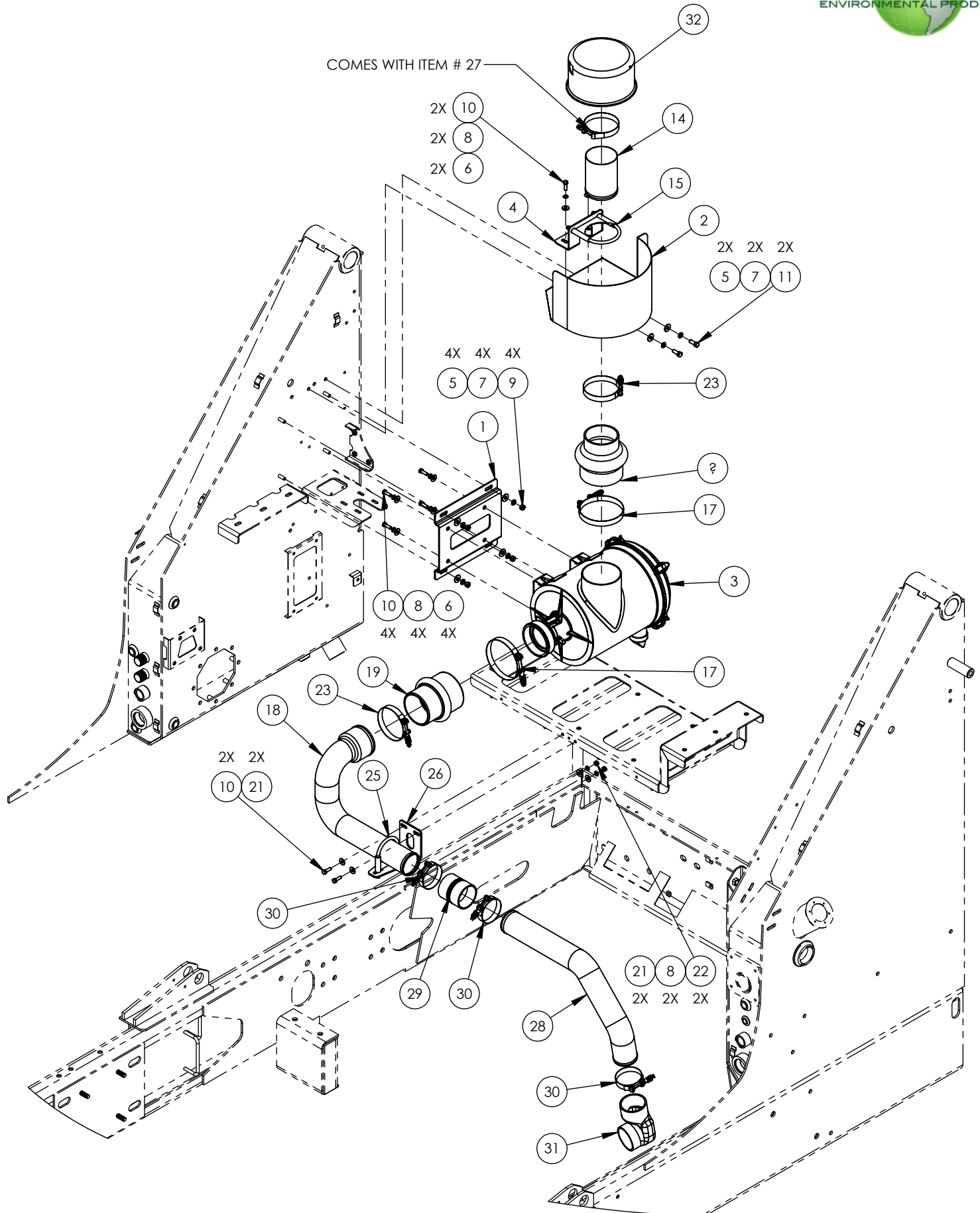




ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
REF	335332	FUEL TANK INSTALLATION	REV 1
1	335331	FUEL TANK ASS'Y	1
2	E325216	FUEL TANK STRAP (RH)	1
3	E325217	FUEL TANK STRAP (LH)	1
4	896974	ADHESIVE SPRAY, 3M	1
5	E896973012	RUBBER STRIP 1/8 X 3.0 X 12	2
6	E896975032	RUBBER STRIP 1/8" X 1.5" X 32"	2
7	026485	CLAMP,HOSE,Ø2-1/2",GEAR TYPE,(2-1/16@3)	2
8	651420	WASHER FLAT SAE 5/16 ID	3
9	609606	WASHER FLAT SAE PLATED 1/4 GR8	4
10	038266	WASHER FLAT SAE PLATED 3/8	2
11	030373	WASHER- LOC SPLIT PLT 5/16 GR8	3
12	030643	WASHER- LOC SPLIT PLTD 1/4 GR8	2
13	030605	WASHER- LOC,SPLIT,PLTD,3/8 GR8	12
14	031433	SCR- HX HD PLTD 5/16-18X1 GR8	3
15	031343	SCR-HX HD,1/4-20X1-1/4 GR8	2
16	030703	NUT HEX 1/4-20 UNC	2
17	030599	NUT- PLATED, 3/8-16 GR8	4
18	034422	SCR-HX HD,PLTD,3/8-16 X 1-1/2	4
19	033309	SCR-HX HD,PLTD,3/8-16 X 3	2
20	039047	SCR-HX HD CAP 3/8-16x4-1/2 GR8	2
21	030557	WASHER FL USS YELLOW 3/8 GD8	4
22	036549	SCR PAN HD PHIL 1/4-20 X 1/2	4
23	335277	FUEL PUMP (#8980682750)	1
24	335286	FUEL FILTER ASM PRE (#8980758553)	1
25	333629	TETHEARED DIESEL CAP	1
26	335287	FUEL FILTER DUAL ELEMENT (#8983129150)	1
27	335300	HEAD, OIL FILTER (#897324386)	1
28	335288	FUEL PIPE, (#8973834270)	4
29	335290	PACKING SEAL, (#1096300860)	4
30	335289	EYE BOLT, (#1096750951)	4
31	E896556007	HOSE 2-1/4 ID X 7" LG	1
32	332083	ELBOW-90 DEG, MJ-08 X MP-06	1
33	335222	BRACKET FUEL FILL, WLDMT (R3AIR)	1
34	332218	BRACKET FUEL, WLDMT	1
35	332214	PLATE-SUPPORT, FUEL PUMP	1



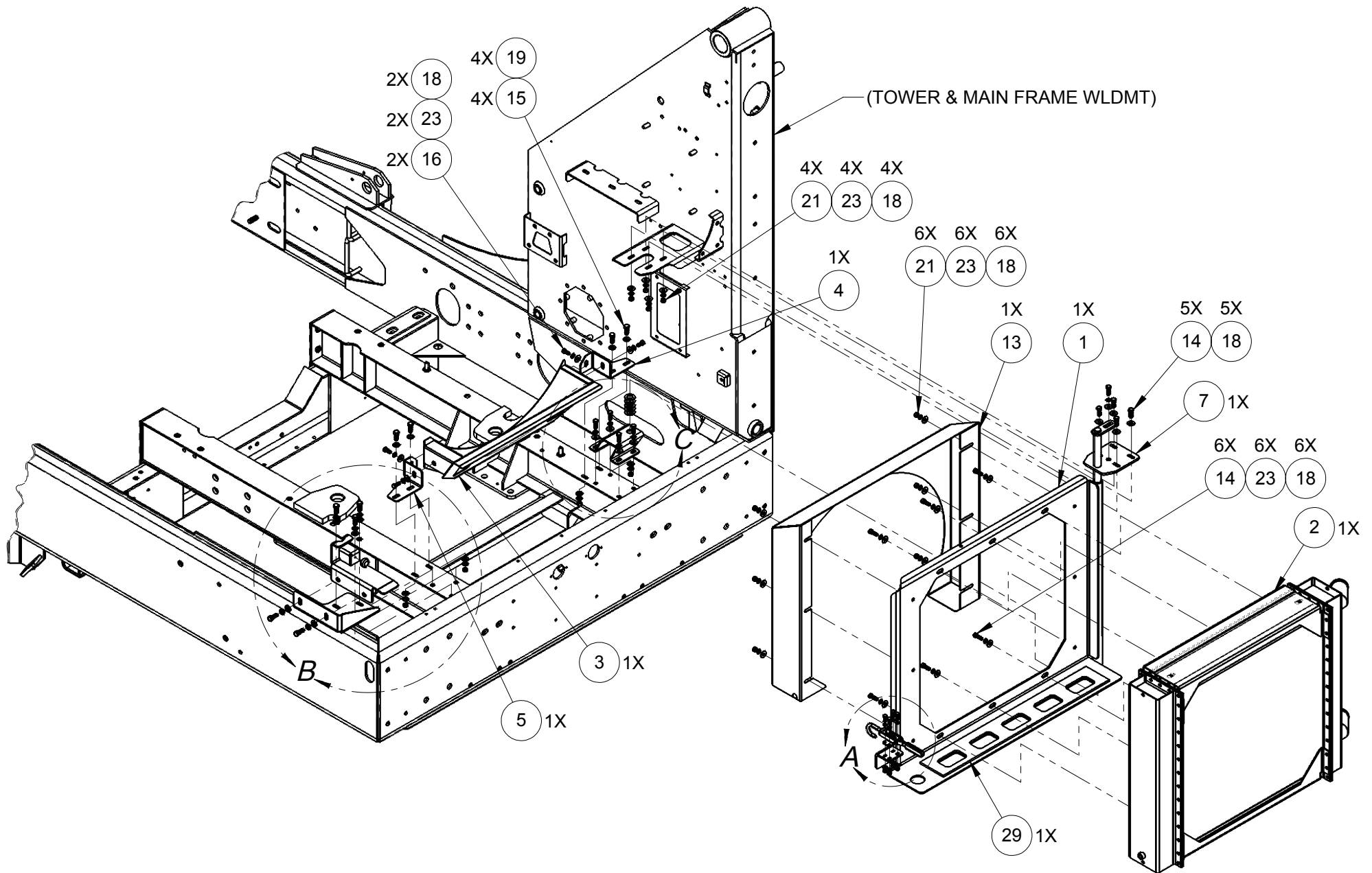
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
REF	333002	SCR ASM CATALYST INSTALLATION	REV A
1	333990	BRACKET, SCR ASM, WLDMT	1
2	332356	CONVERTER ASM SCR	1(REF)
3	332923	BRACKET SCR ASM TOP, WLDMT	2
4	334031	BRACKET-SUPPORT, WIRE SENSOR	1
5	332922	PLATE-BENT COVER HEAT GUARD	1
6	023687	WASHER,FLAT,SAE,Ø 1/2"	15
7	651420	WASHER,FLAT,Ø 5\16", SAE NARROW, 11/16" O.D.	11
8	038266	WASHER,FLAT,Ø 3/8",SAE NARROW	4
9	030592	WASHER,SPRING LOCK,Ø 1/2"	15
10	030373	WASHER,SPRING LOCK,Ø 5/16"	15
11	030605	WASHER,SPRING LOCK,Ø 3/8"	4
12	033150	BOLT,HEX,HEAD,1/2-13-UNC x 1 1/4"LG	7
13	030483	BOLT,HEX,HEAD,5/16-18-UNC x 3/4"LG	7
14	033139	BOLT,HEX,HEAD,3/8-16-UNC x 1 1/4"LG	4
15	030599	NUT, HEX, 3/8-16-UNC	4
16	312062	BOLT,HEX HEAD, M12x1.75x40mm lg.	8
17	334047	TUBING-EXHAUST PIPE, WELDMENT	1
18	337826	GASKET, EXH ADAPTER TURBO	1(REF)
19	335302	GASKET SCR INLET, EXHUST (#8943925532)	1(REF)
20	030617	NUT, HEX, 5/16-18-UNC	4
21	335048	TAIL-PIPE, (R3AIR)	1
22	335299	DOSING MODULE, (#8982318982)	1(REF)
23	337828	NUT; DOSING MODULE	3(REF)
24	335295	SENSOR, CONTROLLER (#8982465061)	2(REF)
25	335298	SENSOR; TEMP, DOC, REAR (#8981867621)	1(REF)
26	335297	SENSOR; TEMP, DOC FRONT (#8981783581)	1(REF)
27	335296	SENSOR TEMP SCR (#8980863290)	1(REF)
28	352730	CLAMP CONST TORQ 2-3/4" - 3-5/8" O.D.	1
29	026205	BOLT,HEX,HEAD,Ø 1/4-20-UNC x 5/8"LG	2
30	333008	BRACKET-SENSOR, WLDMT	1
31	023087	BOLT,HEX,HEAD,5/16-18-UNC x 1 1/2"LG	4
32	609606	WASHER,FLAT,Ø 1/4",SAE NARROW	2
33	030643	WASHER,SPRING LOCK,Ø 1/4"	2
34	034800	BOLT,HEX,HEAD,5/16-18-UNC x 5/8"LG	4

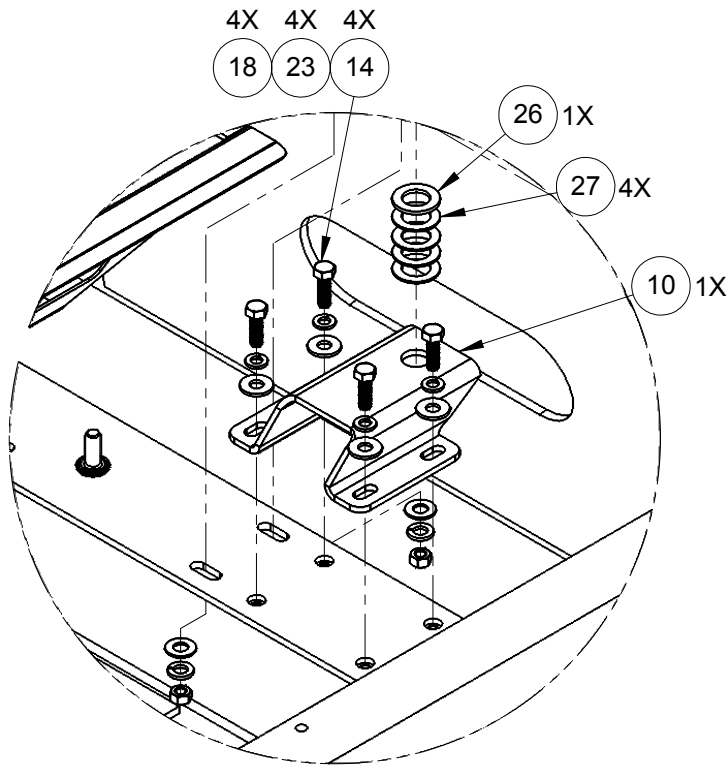
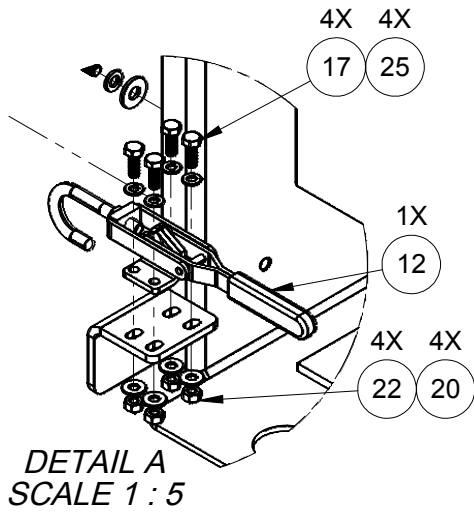


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
REF	335279	AIR CLEANER INSTALLATION	REV B
1	332065	BRACKET-AIR FILTER	1
2	334992	DEFLECTOR AIR FILTER, WLDMT (M3I & R3AIR)	1
3	335278	AIR CLEANER	1
4	332308	ANGLE-CLAMP, SUPPORT, AIR CLEANER	1
5	038266	WASHER FLAT SAE PLATED 3/8	6
6	651420	WASHER FLAT SAE 5/16 ID	6
7	030605	WASHER- LOC,SPLIT,PLTD,3/8 GR8	6
8	030373	WASHER- LOC SPLIT PLT 5/16 GR8	8
9	030599	NUT- PLATED, 3/8-16 GR8	4
10	031433	SCR- HX HD PLTD 5/16-18X1 GR8	8
11	034423	SCR-HX HD, 3/8-16X1 GR8	2
14	332307	TUBE, AIR CLEANER, (3AIR)	1
15	91677	U-BOLT, EXHAUST Ø4"PIPE, (3/8"-16) SS	1
17	325099	CLAMP, T-BOLT 5.25-5.49	2
18	332996	TUBING, FILTER TO TURBO (R3AIR)	1
19	332253	HUMP-REDUCER, 4-1/2" ID X 4.0" ID	1
21	030489	WASHER FLAT USS PLTD 5/16 GR8	4
22	030617	NUT-PLATED 5/16-18 GR8	2
23	325726	CLAMP, T-BOLT 4.25-4.56	2
25	312504	CLAMP, EXHAUST, 3" DIA	1
26	333007	BRACKET-CLAMP, CAC	1
27	330194	HUMP HOSE, RUBBER 5" ID X 4" ID (P101293)	1
28	337924	TUBING, FILTER TO TURBO (R3AIR)	1
29	319761	COUPLING HOSE COLD, 3.0" ID, X 3.5" LG. 1-WIRE	1
30	314684	CLAMP HOSE T-BOLT 3-3.5	3
31	332188	ELBOW, REDUCING, COBRA HEAD, 3" ID	1
32	323410	PRECLEANER, CENTRI MOD. EX-40	1

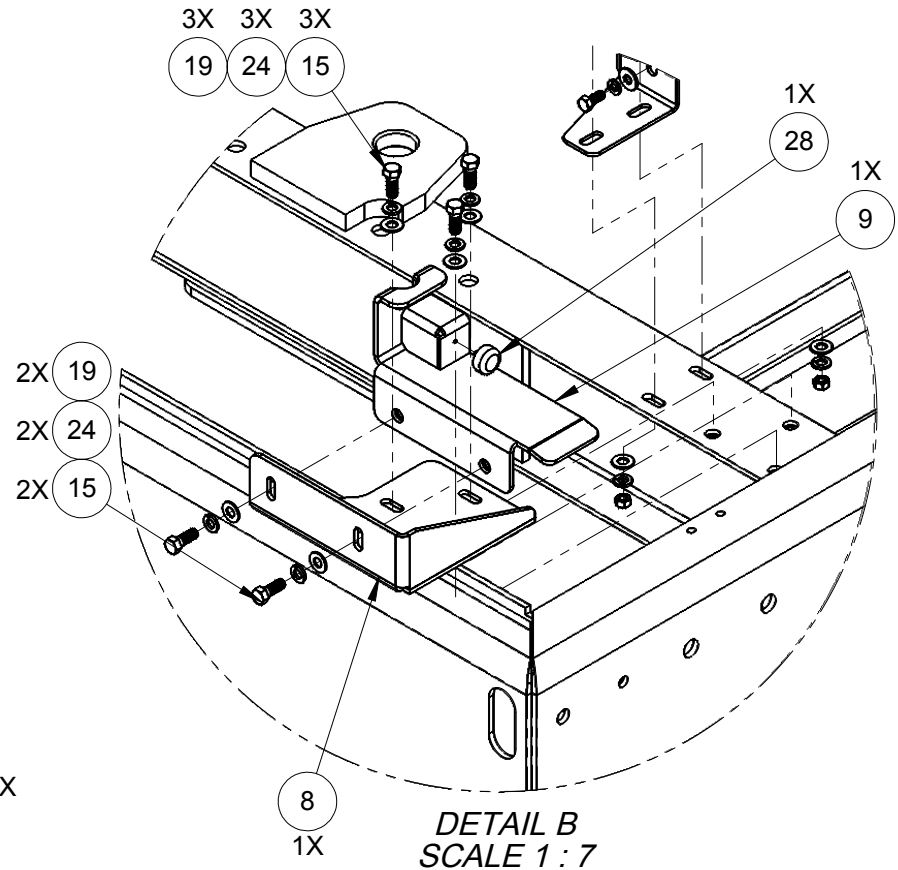


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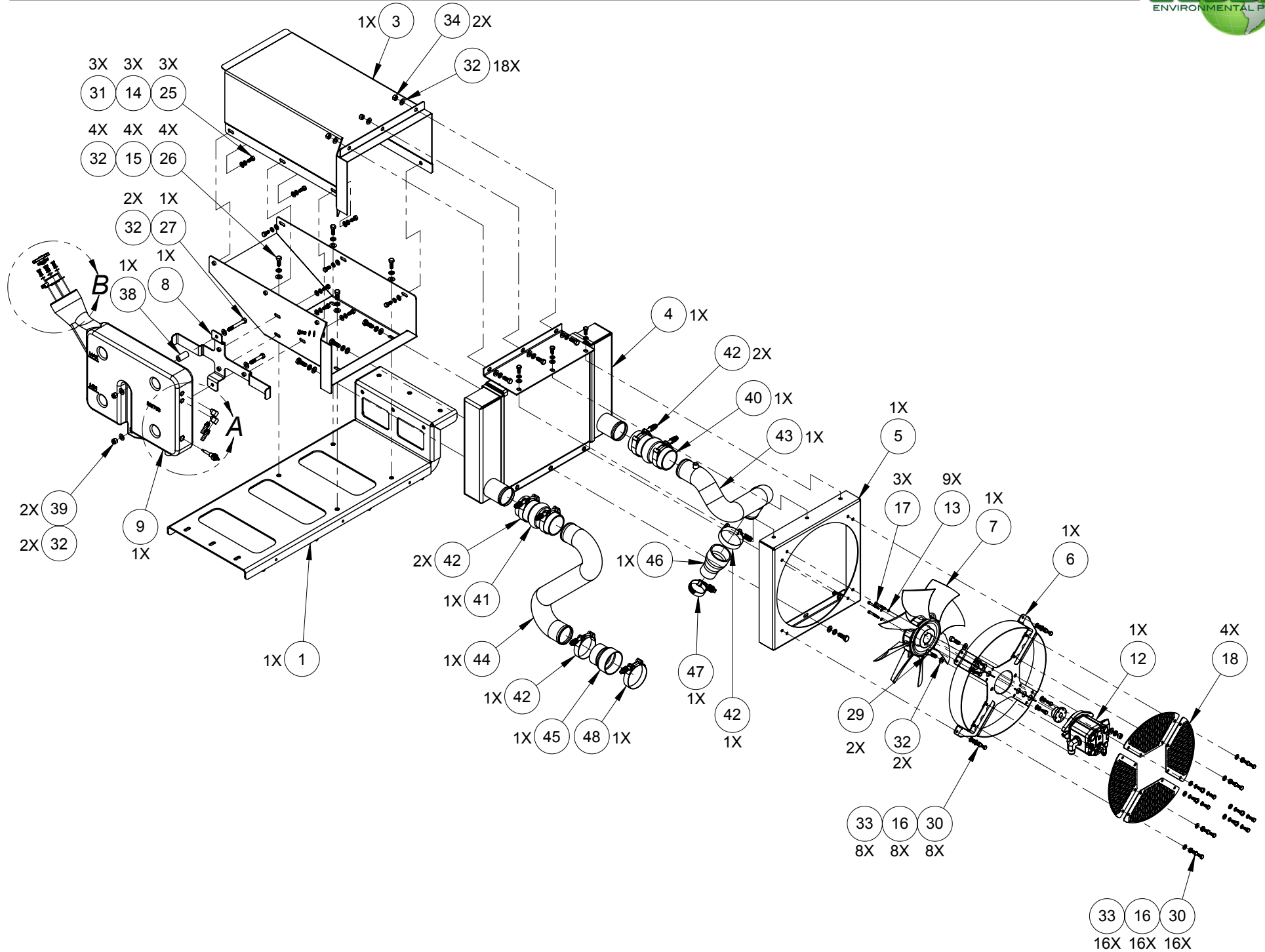
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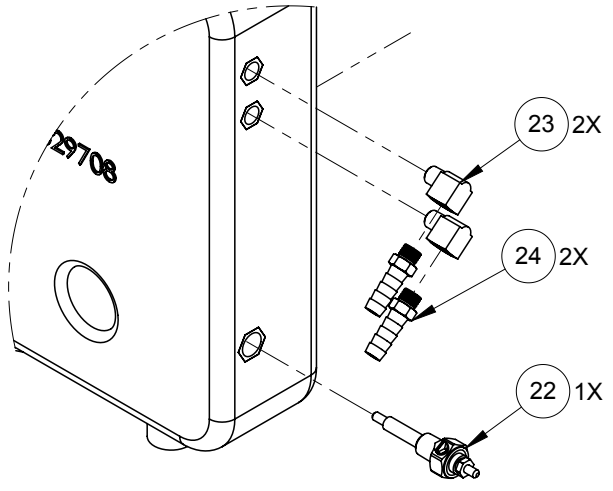
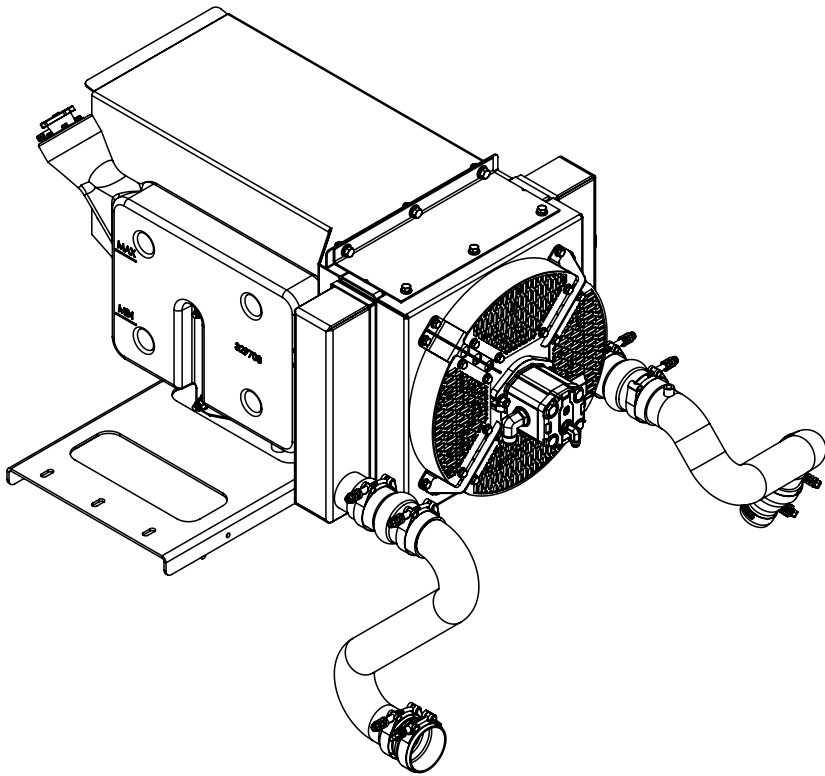


ITEM NO.	PART NUMBER	DESCRIPTION	QTY
REF	332416	RADIATOR & SHROUD INSTALLATION	REV B
1	332414	BRKT RADIATOR SHROUD, WELDMENT	1
2	332470	RADIATOR, DUAL-PASS	1
3	332101	BRKT-SHROUD ARC RADIATOR, WLDMT	1
4	332110	PLATE-BENT-BTM SUBFRAME, (RH) SIDE	1
5	332111	PLATE-BENT-BTM SUBFRAME, (LH) SIDE	1
6	333012	RADIATOR PIVOT ROD, WLDMT, (R3AIR)	1
7	332924	PLATE, RADIATOR ADJ. WLDMT	1
8	332109	PLATE-BENT SUPPORT, BOTTOM LATCH	1
9	332106	BRACKET LATCH STOP RADIATOR, WLDMT	1
10	332058	PLATE-BENT, PIVOT, ADJUST	1
12	351089	CLAMP REWORK	1
13	332413	PLATE-BENT SHROUD, RADIATOR	1
14	031433	BOLT,HEX,HEAD,5/16-18-UNC x 1"LG	15
15	034423	BOLT,HEX,HEAD,3/8-16-UNC x 1" LG. GR8	9
16	030483	BOLT,HEX,HEAD,5/16-18-UNC x 3/4"LG	4
17	033145	BOLT,HEX,HEAD,Ø 1/4-20-UNC x 3/4"LG	4
18	030489	WASHER,FLAT,Ø 5/16",USS,WIDE,7/8" O.D.	29
19	038266	WASHER,FLAT,Ø 3/8",SAE NARROW	13
20	609606	WASHER,FLAT,Ø 1/4",SAE NARROW	4
21	030617	NUT, HEX, 5/16-18-UNC	14
22	030703	NUT, HEX, 1/4-20-UNC	4
23	030373	WASHER,SPRING LOCK,Ø 5/16"	25
24	030605	WASHER,SPRING LOCK,Ø 3/8"	9
25	030643	WASHER,SPRING LOCK,Ø 1/4"	4
26	312871	THRUST BUSHING DELRIN 3/4 BORE	1
27	550691	ROUND,SHIM	4
28	331102	BUMPER W/STUD, #10-24UNC	1
29	338092	PAD, OIL COOLER, RUBBER (5 SLOT)	1

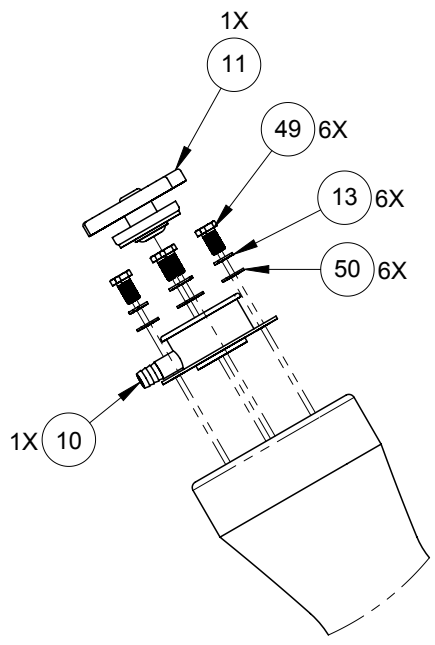
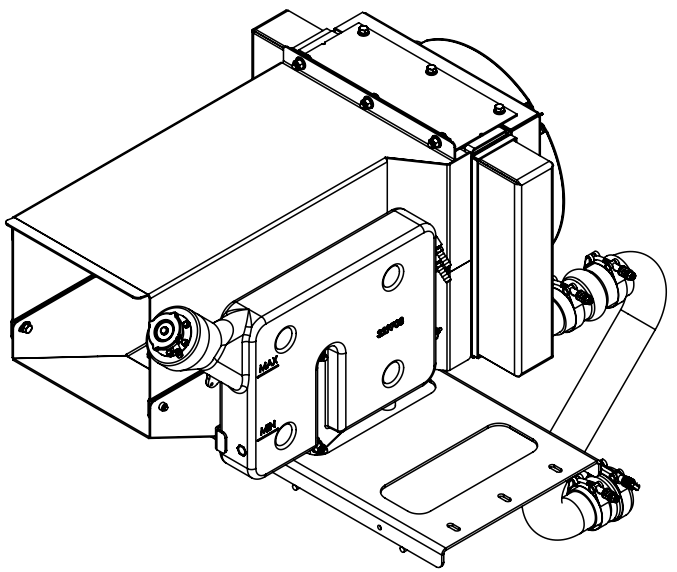


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DETAIL A
SCALE 1 : 4



DETAIL B
SCALE 1 : 4

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
REF	333003	CAC ASSEMBLY	REV 1
1	332897	CHANNEL-SUPPPORT TOP CAC, WLDMT, (R3)	1
2	332899	BRACKET-BOTTOM, CAC WLDMT (R3)	1
3	332902	BRACKET-TOP, CAC, WLDMT	1
4	332469	CHARGE AIR COOLER	1
5	332906	SHROUD CAC COOLER, WLDMT (R3)	1
6	332908	BRKT, CAC COOLER MOTOR WLDMT, (R3)	1
7	332552	FAN, 14.0" DIA, CAC (R3AIR)	1
8	332096	BRACKET-DEAERATION TANK, WLDMT	1
9	329708	DEAERATION TANK, POLY	1
10	330062	DEAERATION TANK FILLER NECK	1
11	320522	RADIATOR CAP, 7PSI	1
12	321015	MOTOR, CAC	1
13	035604	WASHER,SPRING LOCK,Ø #10	9
14	030373	WASHER,SPRING LOCK,Ø 5/16"	13
15	030605	WASHER,SPRING LOCK,Ø 3/8"	9
16	030643	WASHER,SPRING LOCK,Ø 1/4"	24
17	334896	SCR. SOC. HD BLK, #10-24UNC X 1-5/8" LG. GR#8	3
18	332912	PLATE-GRILLE, CAC	4
19	054289	ELBOW, MB-MJ90-6	1
20	620385	HYD. FITTING 90° (MJIC-10/MORB-10)	1
21	351707	FITTING,HYD,90°,MORB-10 X MJIC-12	1
22	353996	LEVEL SENSOR	1
23	325003	STREET ELBOW,MP-FP90-2-2 BRASS	2
24	330136	HOSE NIPPLE, 1/8" NPT - 3/8" HOSE	2
25	030483	BOLT,HEX,HEAD,5/16-18-UNC x 3/4"LG	13
26	034423	BOLT,HEX,HEAD,3/8-16-UNC x 1" LG. GR8	7
27	215748	BOLT,HEX,HEAD,3/8-16-UNC x 2 3/4"LG	1
28	033146	BOLT,HEX,HEAD,3/8-16-UNC x 2"LG	1
29	033139	BOLT,HEX,HEAD,3/8-16-UNC x 1 1/4"LG	2
30	026205	BOLT,HEX,HEAD,Ø 1/4-20-UNC x 5/8"LG	24
31	651420	WASHER,FLAT,Ø 5/16", SAE NARROW, 11/16" O.D.	13
32	038266	WASHER,FLAT,Ø 3/8",SAE NARROW	18
33	609606	WASHER,FLAT,Ø 1/4",SAE NARROW	24
34	030599	NUT, HEX, 3/8-16-UNC	5
35	124-171	BOLT,HEX HEAD, M10x1.5x30mm lg.	6
36	310156	WASHER,FLAT,Ø M10	6
37	251468	WASHER,SPRING LOCK,Ø M10	6
38	332095	TUBE-SPACER, DEARATION TANK	1
39	023885	NUT,HEX,NYLON LOCK,3/8-16-UNC	2
40	247360H	HUMP HOSE HOT, 2.5 " ID	1
41	247360	HUMP HOSE, BLUE, 2.5 " ID	1
42	247446	CLAMP,T-BOLT 2.5-2.81 SPRING	6

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
43	332997	TUBING-CAC INLET, WELDMENT, (R3AIR)	1
44	332998	TUBING, CAC OUTLET, (R3AIR)	1
45	332175	HUMP REDUCER, 3.25" X 2.5"	1
46	333992	HUMP HOSE REDUCER, 1.75 ID X 2.50 ID	1
47	180944	HOSE CLAMP, CONSTANT FRCE 45-67	1
48	314684	CLAMP HOSE T-BOLT 3-3.5	1
49	322024	SCR- HX HD, 10-32UNF X 1/2" LG	6
50	036645	WASHER, FLAT, Ø #10, SAE NARROW	6



CHAPTER 7

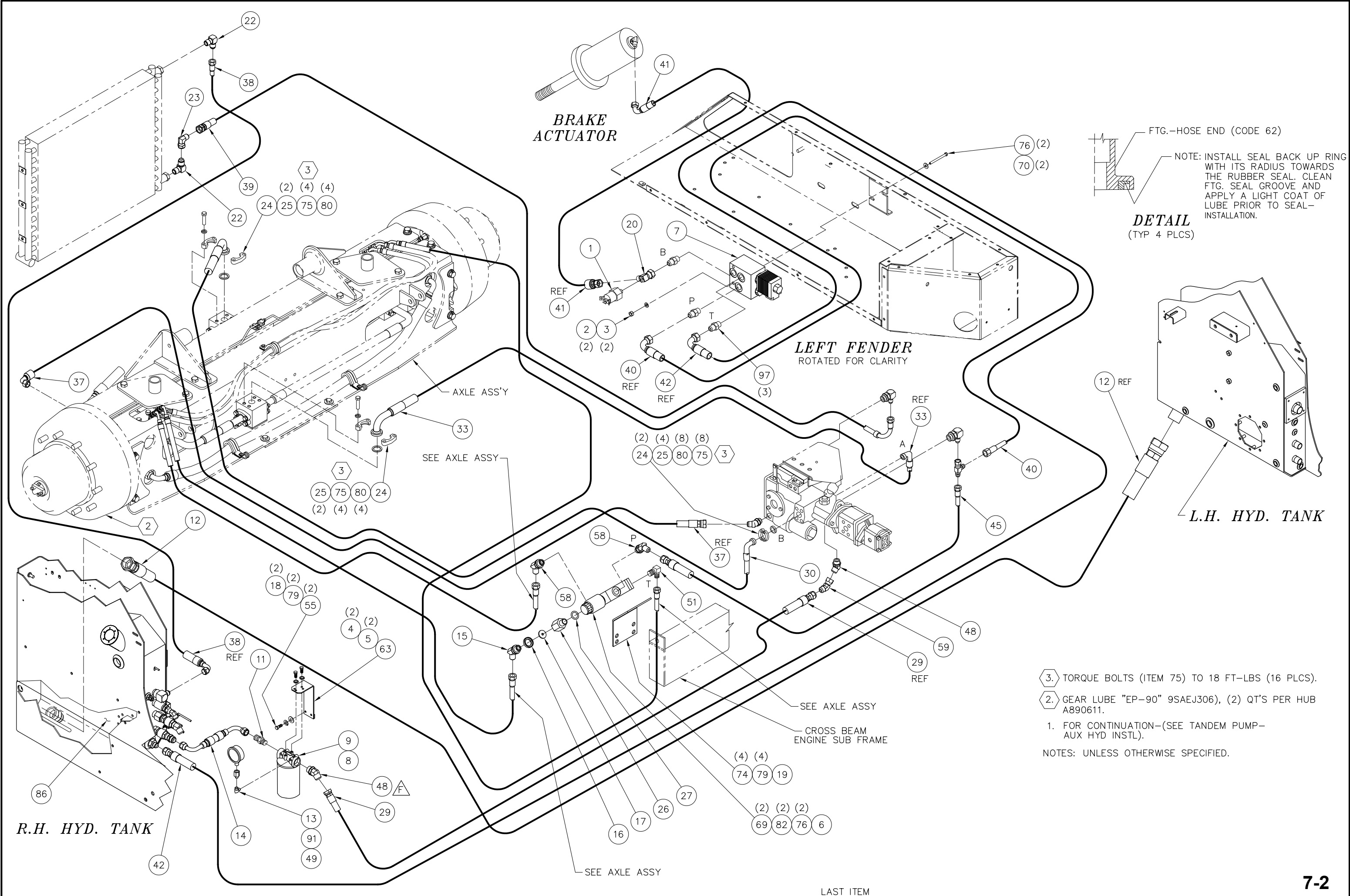
Group--Hydraulics

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7



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.

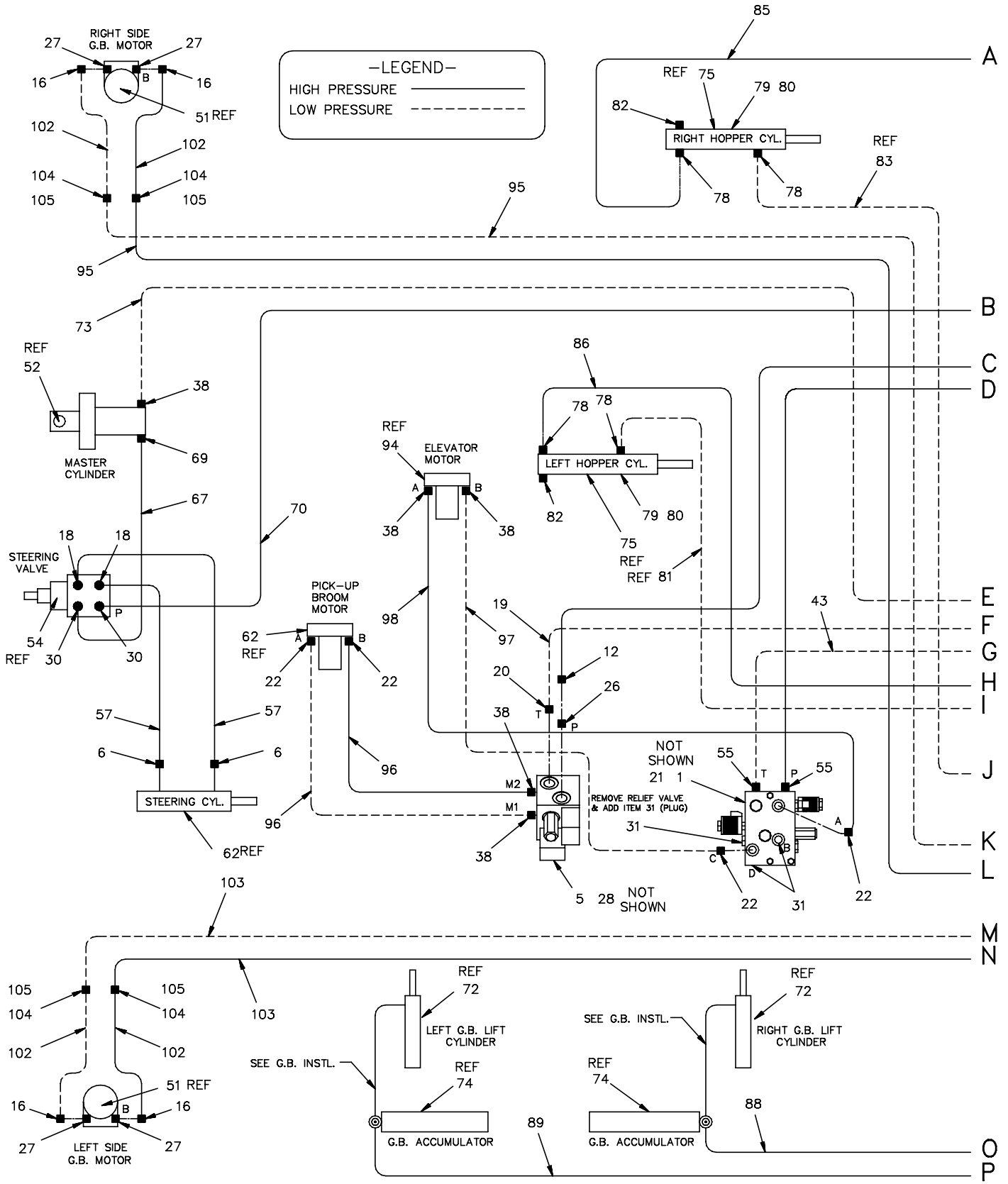
323858 REV *G

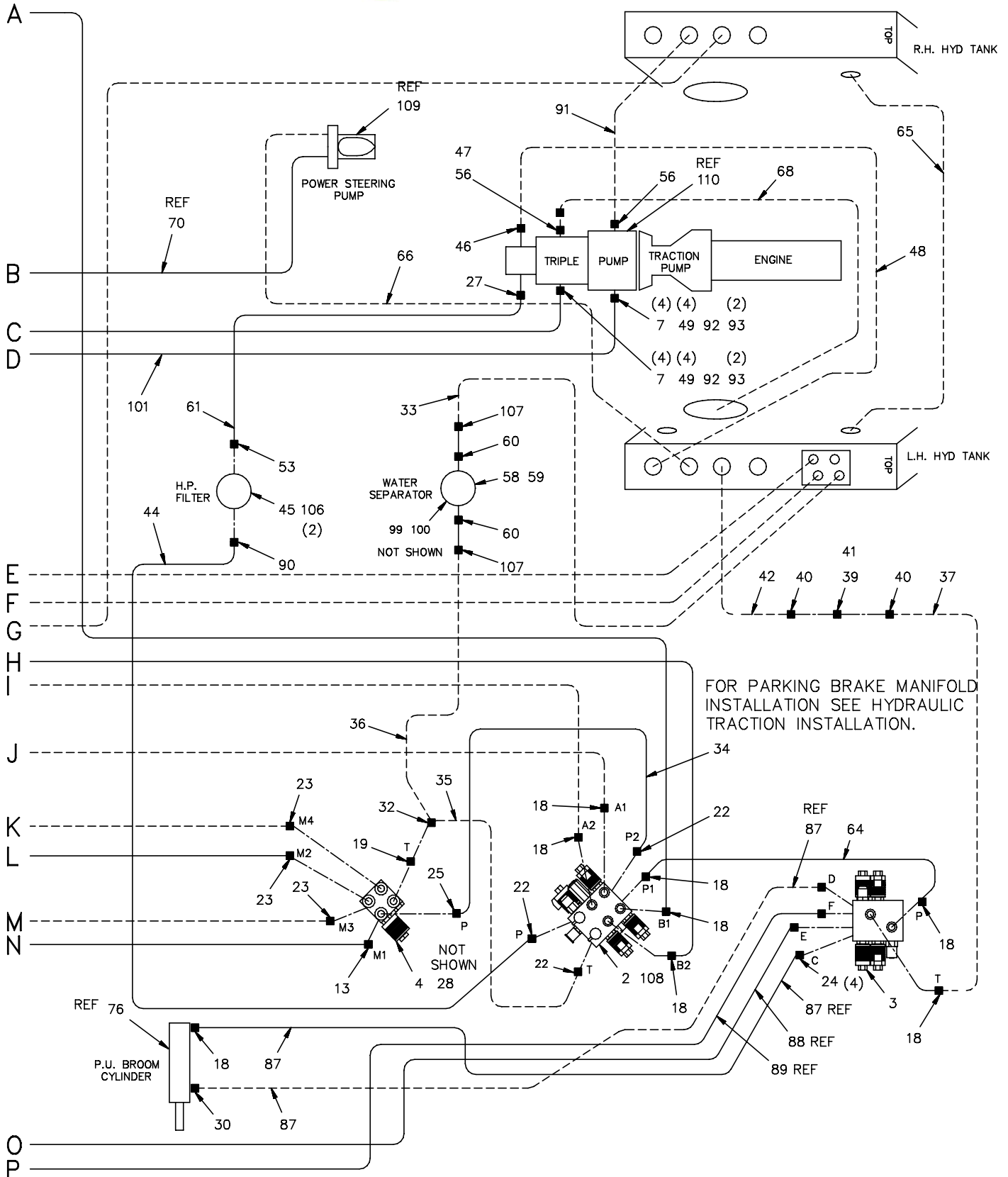
ITEM NO.	PART NUM	QTY	DESCRIPTION
1	330067	1	SWITCH-PRESSURE, PARKING BRAKE
2	030643	2	WASHER- LOC SPLIT PLTD 1/4 GR8
3	030703	2	NUT HEX 1/4-20 UNC
4	030373	2	WASHER- LOC SPLIT PLT 5/16 GR8
5	034800	2	SCR-HX HD,PLT,5/16-18 x 3/4 GR8
6	324803	1	HIGH-LOW VALVE ASSEMBLY
7	334127	1	MANIFOLD- PARKING BRAKE
8	311794	1	FILTER HEAD
9	332987	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



NOTES
NOTES

CHAPTER 7







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	334921	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

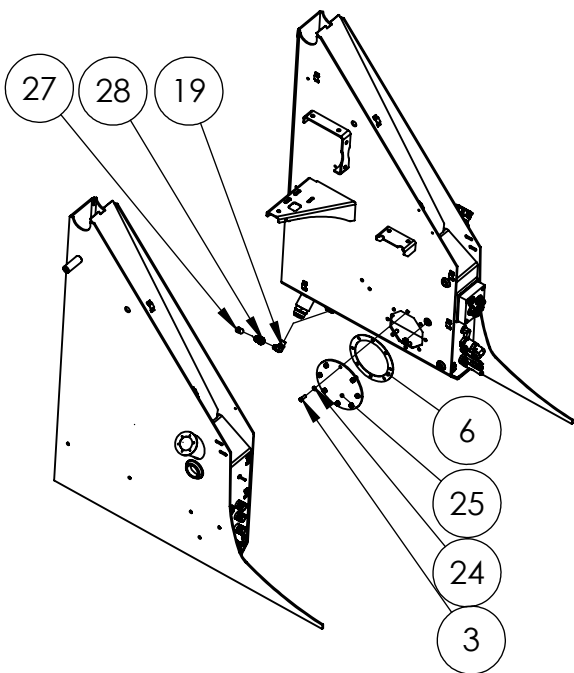
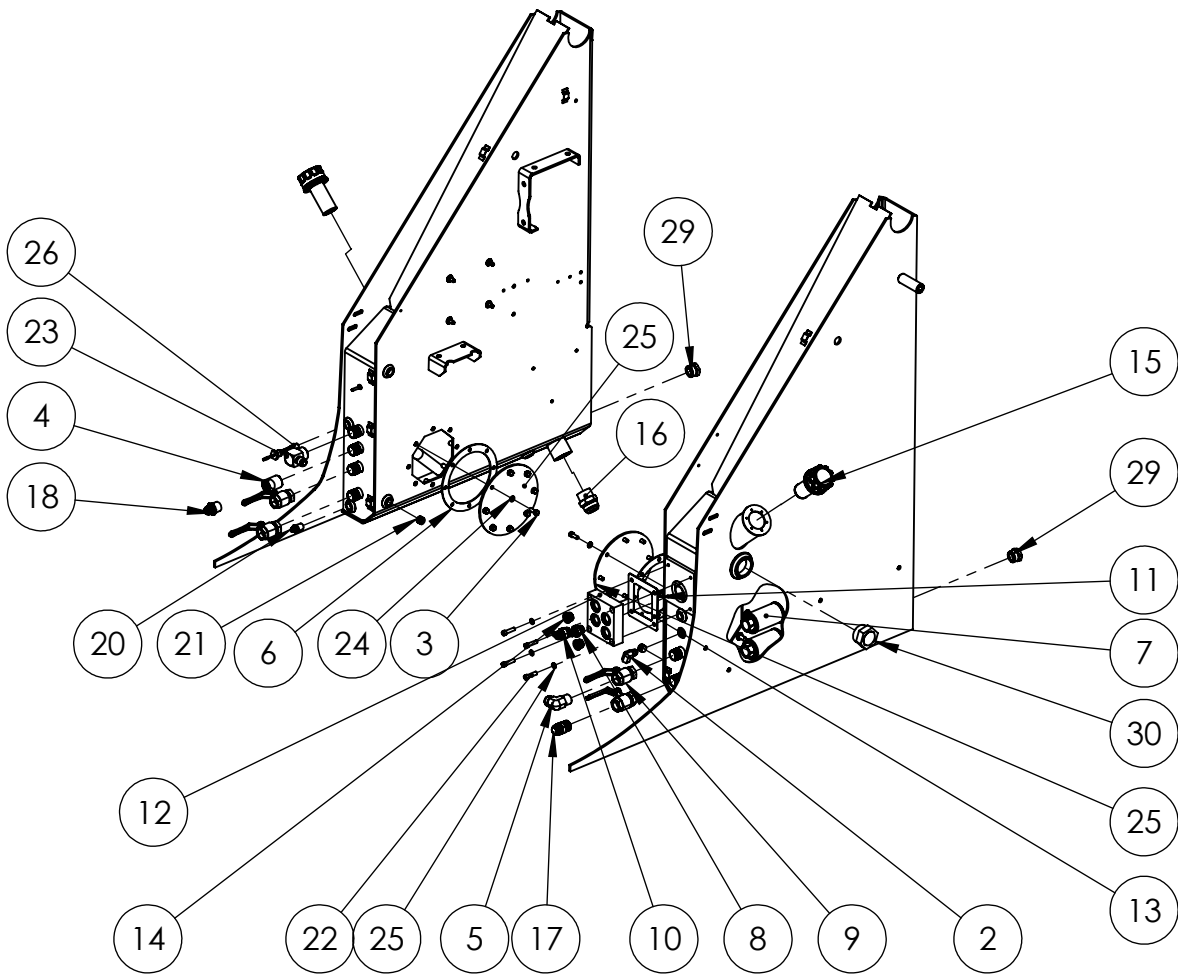
Auxiliary Hydraulic Installation



CHAPTER 7

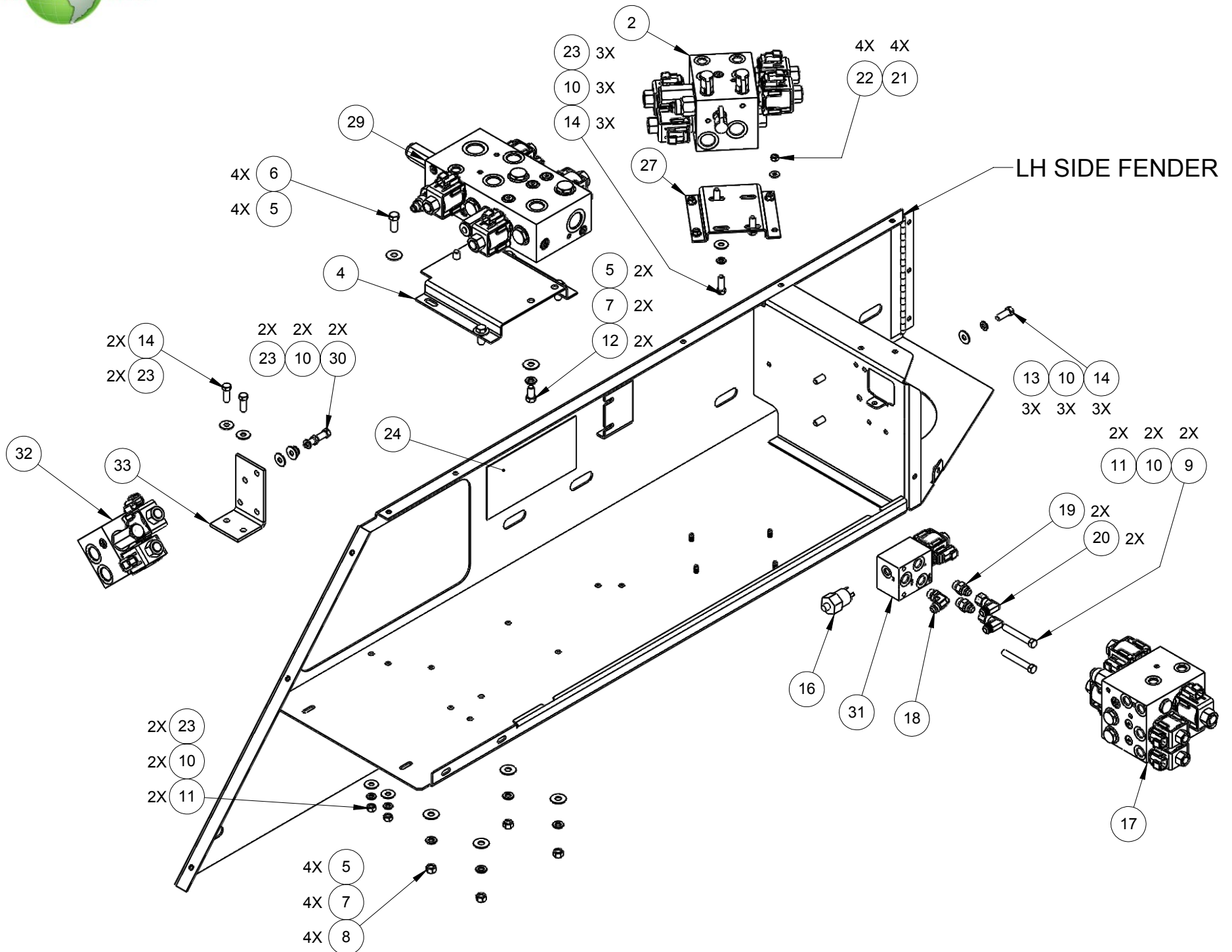
Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
99	323937	Water Separator Brkt, Wldmt	1				
100	323969	Adapter Brkt Wldmt	1				
101	322516	Hose Assy, 3/4" Id X 54.5" Cut	2				
102	322660	Hose Assy, 5/8 Id X 32.62 Lg	4				
103	324461	Hose Assy 5/8 Id X 113.0 Cut	2				
104	057648	El-Blkhd, Mj-Mjh45-10	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				





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 GASKET,	1
6	E300664	HYD TANK COVER PLATE	2
7	318356	SUCTION STRAINER, 1-1/4" FNPT	2
8	303165	HYD FITTING STRAIGHT (ORB-12/JIC-10) VALVE,	1
9	308883	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



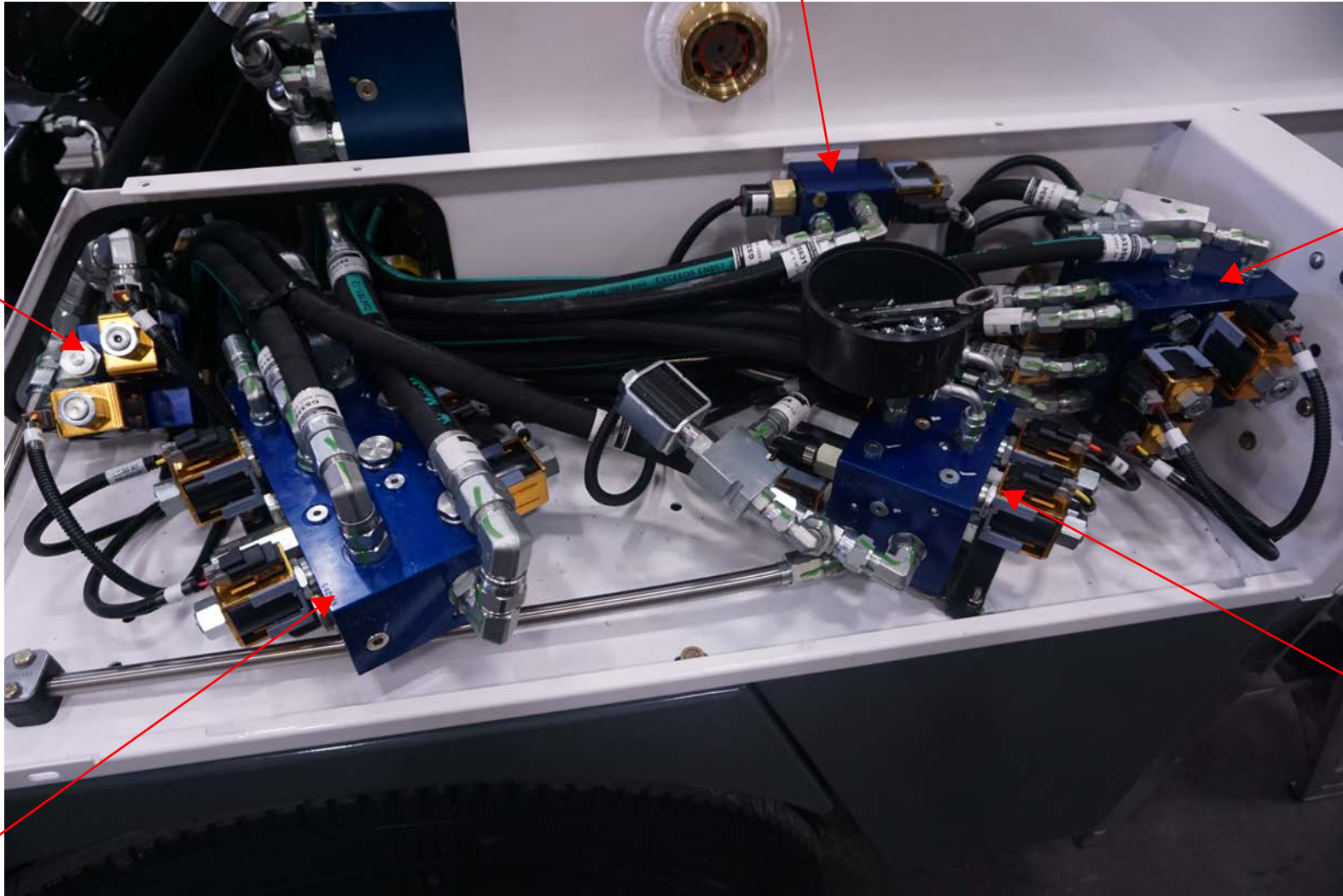


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
REF	335159	MANIFOLD INSTALLATION	REV 2
1	323584	FENDER W/MANIFOLDS (LH) SIDE WELDMENT	1
2	319870	MANIFOLD- HOPPER, UP/DOWN	1
4	E322479	ANGLE, ELEV. MANIFOLD SUPPORT	1
5	038266	WASHER FLAT SAE PLATED 3/8	10
6	034423	SCR-HX HD, 3/8-16X1 GR8	4
7	030605	WASHER- LOC,SPLIT,PLTD,3/8 GR8	6
8	030599	NUT- PLATED, 3/8-16 GR8	4
9	031437	SCR-HX HD,5/16-18X2-1/2 GR8	2
10	030373	WASHER- LOC SPLIT PLT 5/16 GR8	12
11	030617	NUT-PLATED 5/16-18 GR8	4
12	033147	SCR- HX HD PLTD 3/8-16 X 3/4	2
13	030489	WASHER FLAT USS PLTD 5/16 GR8	3
14	031433	SCR- HX HD PLTD 5/16-18X1 GR8	8
16	330067	SWITCH- PRESSURE, PARKING BRAKE	1
17	334393	BROOM LIFT MANIFOLD	1
18	054289	ELBOW, MB-MJ90-6	1
19	204003	CONN, MB-MJ-6	2
20	252013	FITTING,HYD,90°,MJIC-06 X FJIC-06	2
21	609606	WASHER FLAT SAE PLATED 1/4 GR8	4
22	030703	NUT HEX 1/4-20 UNC	4
23	651420	WASHER FLAT SAE 5/16 ID	9
24	335074	DECAL-MANIFOLDS IN FENDER STD	1
27	316818	STAND-MANIFOLD, HOPPER UP/DOWN	1
29	334921	MANIFOLD,HEAVY SWEEP W/LEVELER	1
30	030483	SCR- HXHD PLTD 5/16-18X3/4 GR8	2
31	334127	MANIFOLD, PARKING BRAKE	1
32	319876	P.U.B DRIVE	1
33	322480	ANGLE, MANIFOLD SUPPORT	1

PARKING BRAKE
MANIFOLD
(#334127)

BROOM LIFT
MANIFOLD
(#334393)

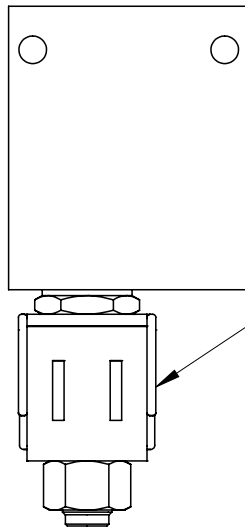
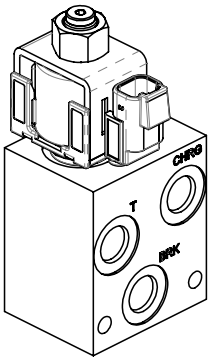
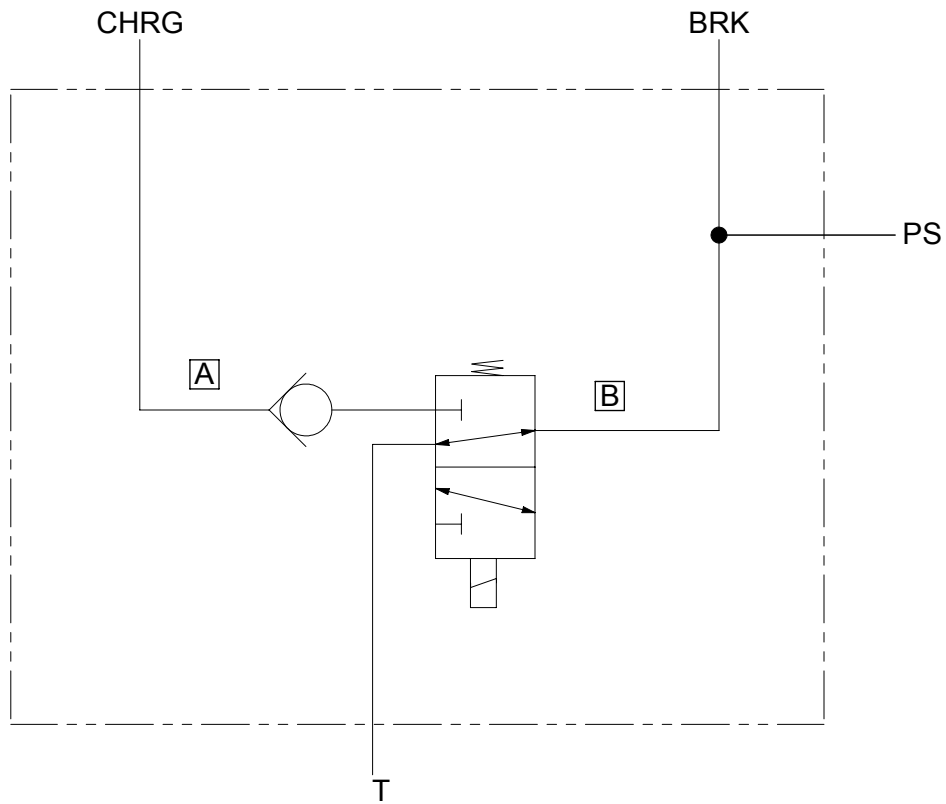
HOPPER UP/
DOWN
MANIFOLD
(#319870)



PUB DRIVE
MANIFOLD
(#319876)

ELEV/ PICK
UP BROOM
MANIFOLD
(#334921)

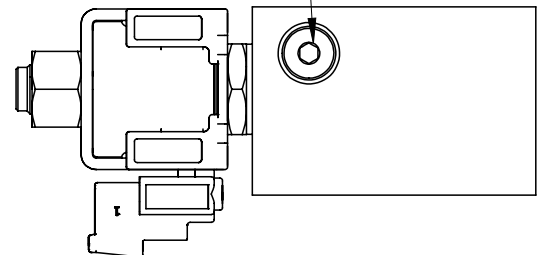
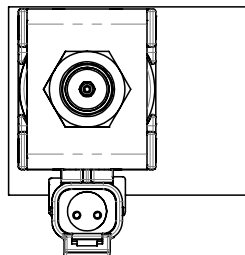
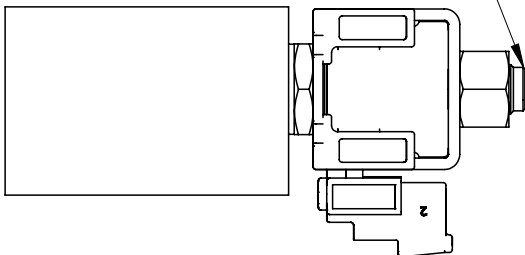
NOTE: IF YOU PURCHASED YOUR
UNIT BEFORE YEAR 2018 USE
PART #319872



P/N#337851
COIL - SMALL

P/N# 337856
CHECK VALVE
CARTRIDGE

P/N# 337857
DIRECTIONAL VALVE



P/N# 337883
SOLENOID VALVE

P/N# 337877
CHECK VALVE

P/N# 337878
CHECK CARTRIDGE

P/N# 337878
CHECK CARTRIDGE

P/N# 337882
SOLENOID VALVE

P/N# 337878
CHECK CARTRIDGE

P/N# 337884
RELIEF VALVE

P/N# 337880
FLOW CONTROL VALVE

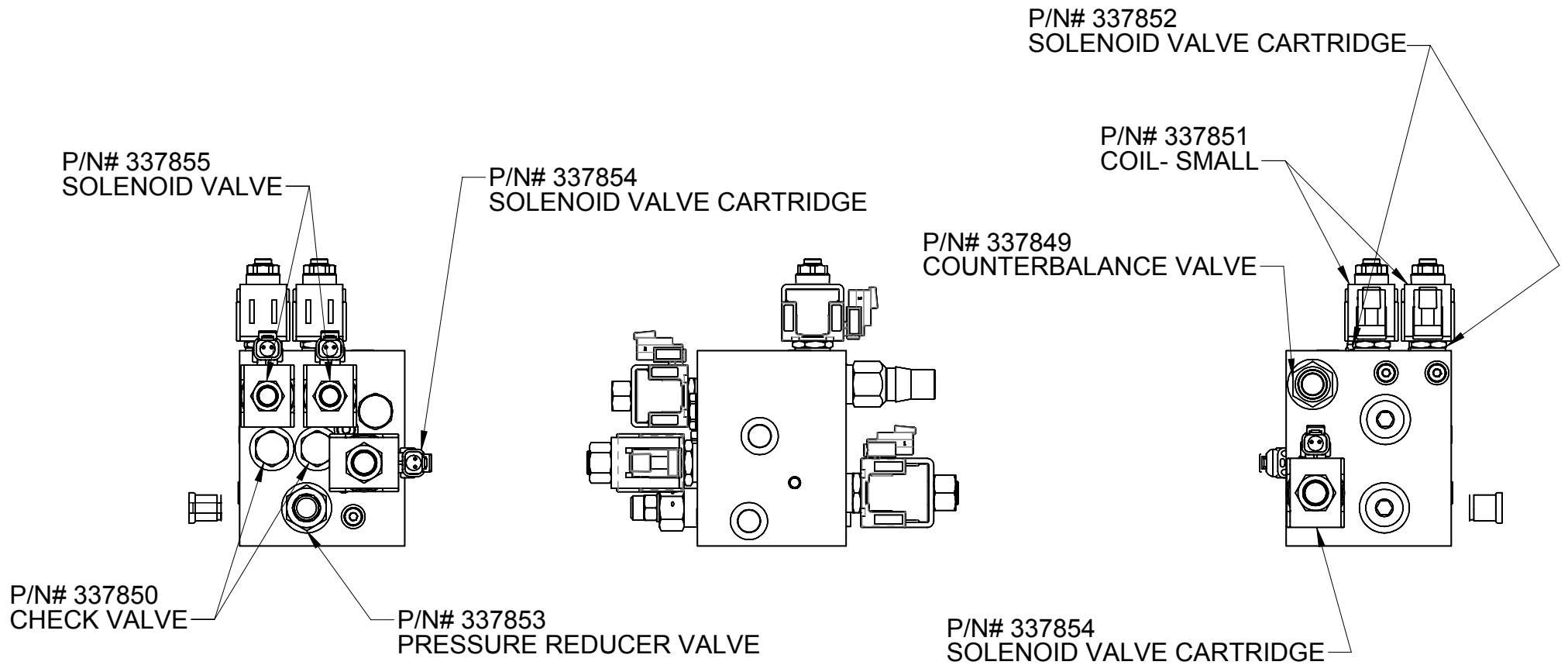
P/N# 337881
DIRECTIONAL VALVE

P/N# 337878
CHECK CARTRIDGE

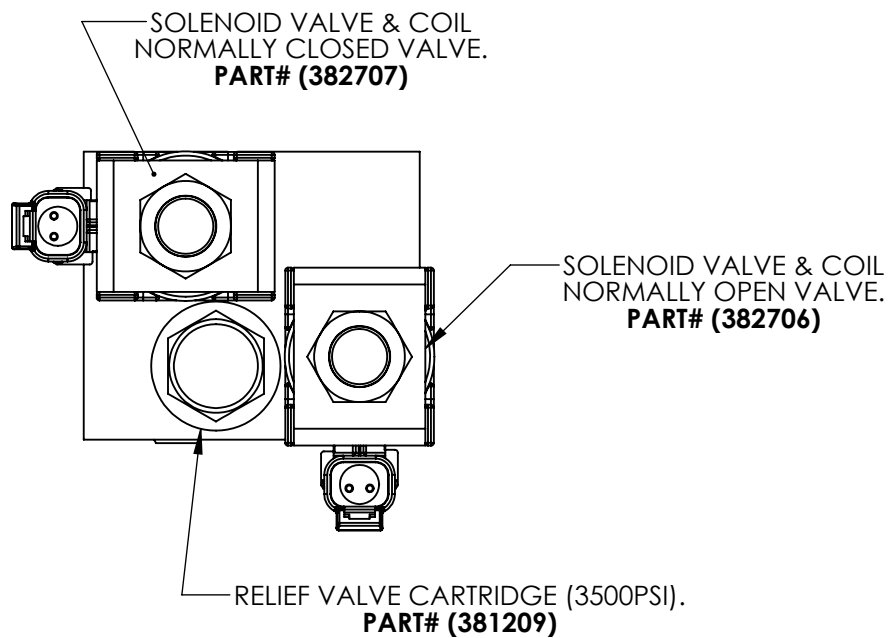
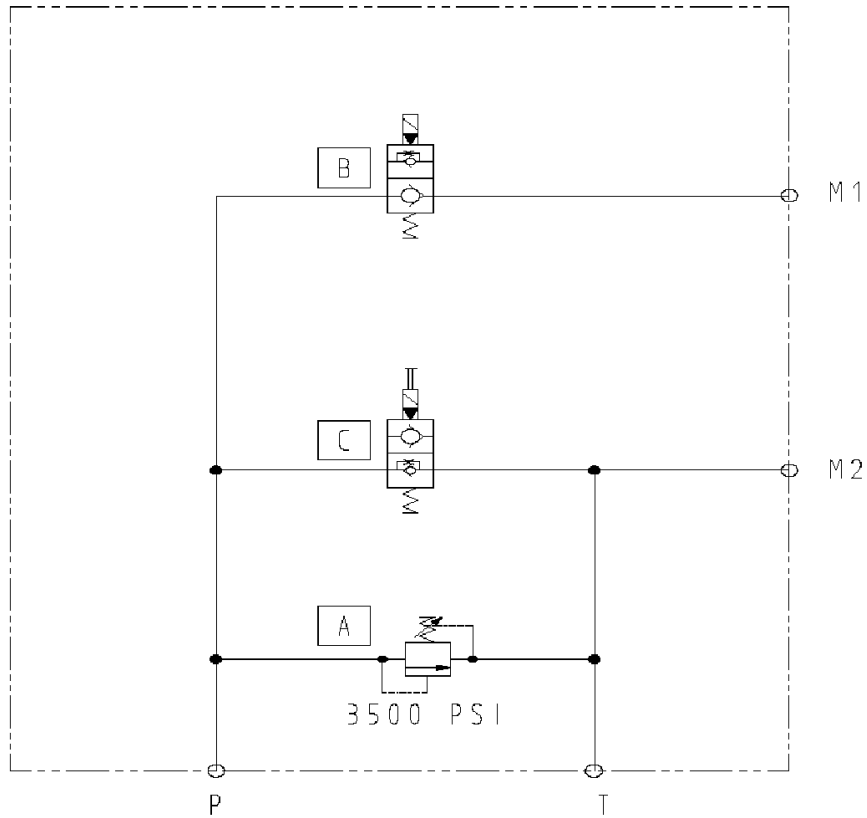
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SOLENOID VALVE

P/N# 337879
RELIEF VALVE

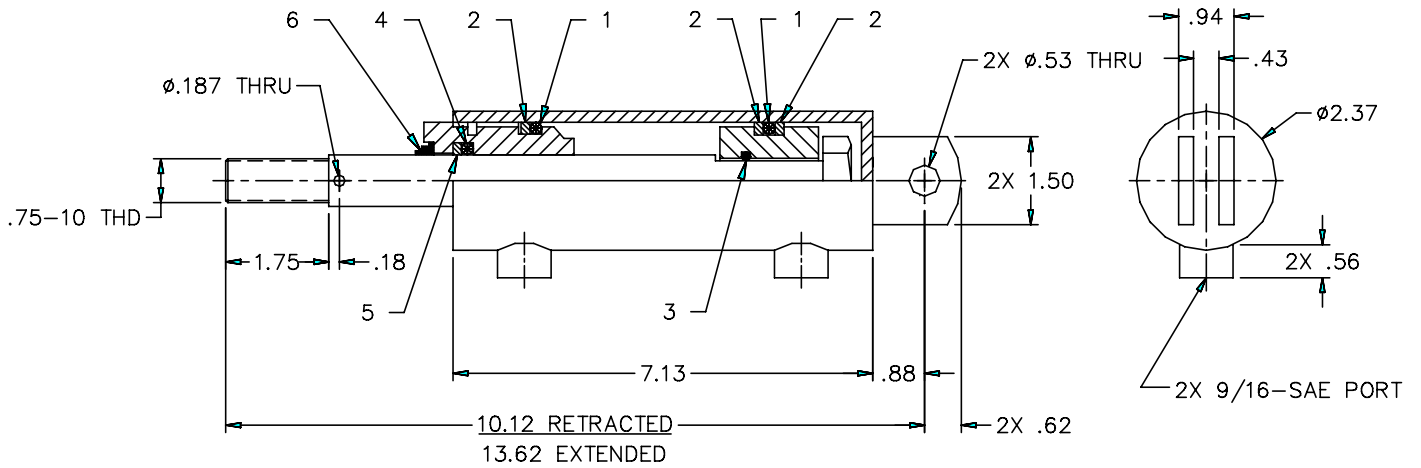
P/N# 337885
RELIEF VALVE



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



2. PRESSURE TEST REQUIRMENTS:

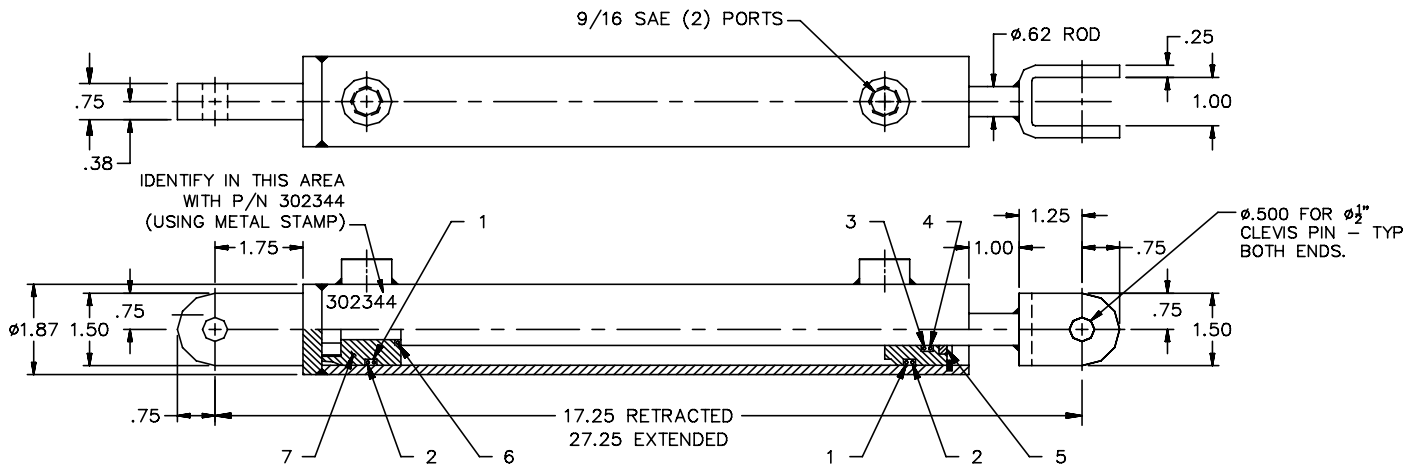
WORKING PRESSURE: 2500 PSIG

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				



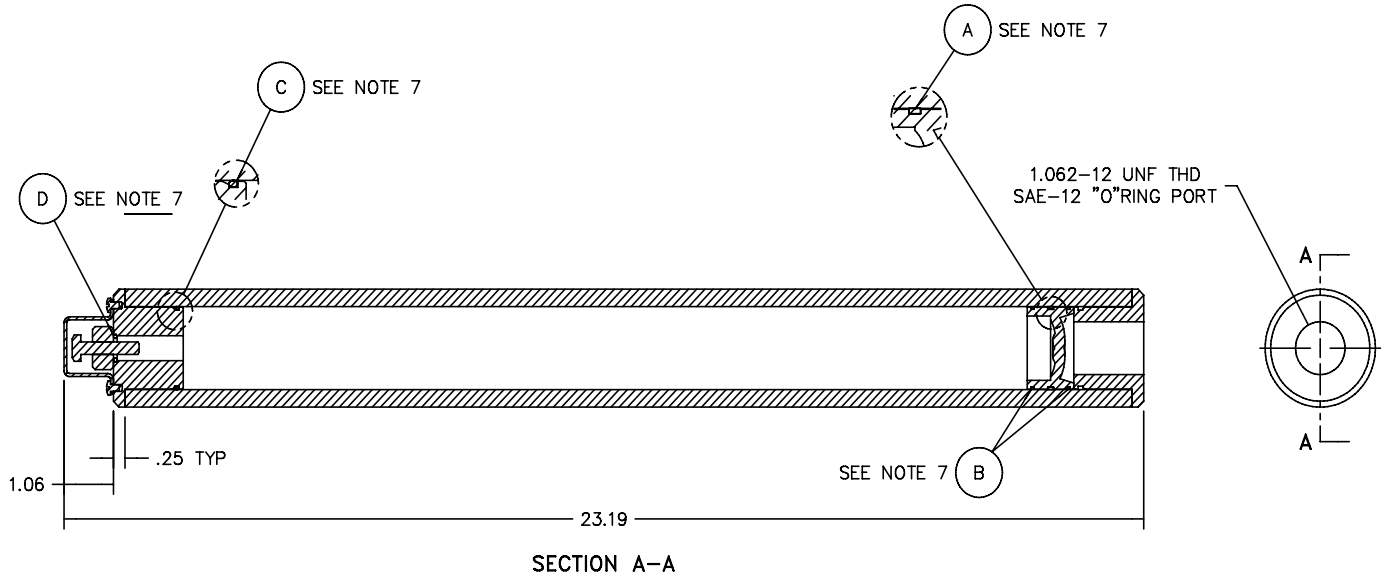
SPECIFICATION:

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				



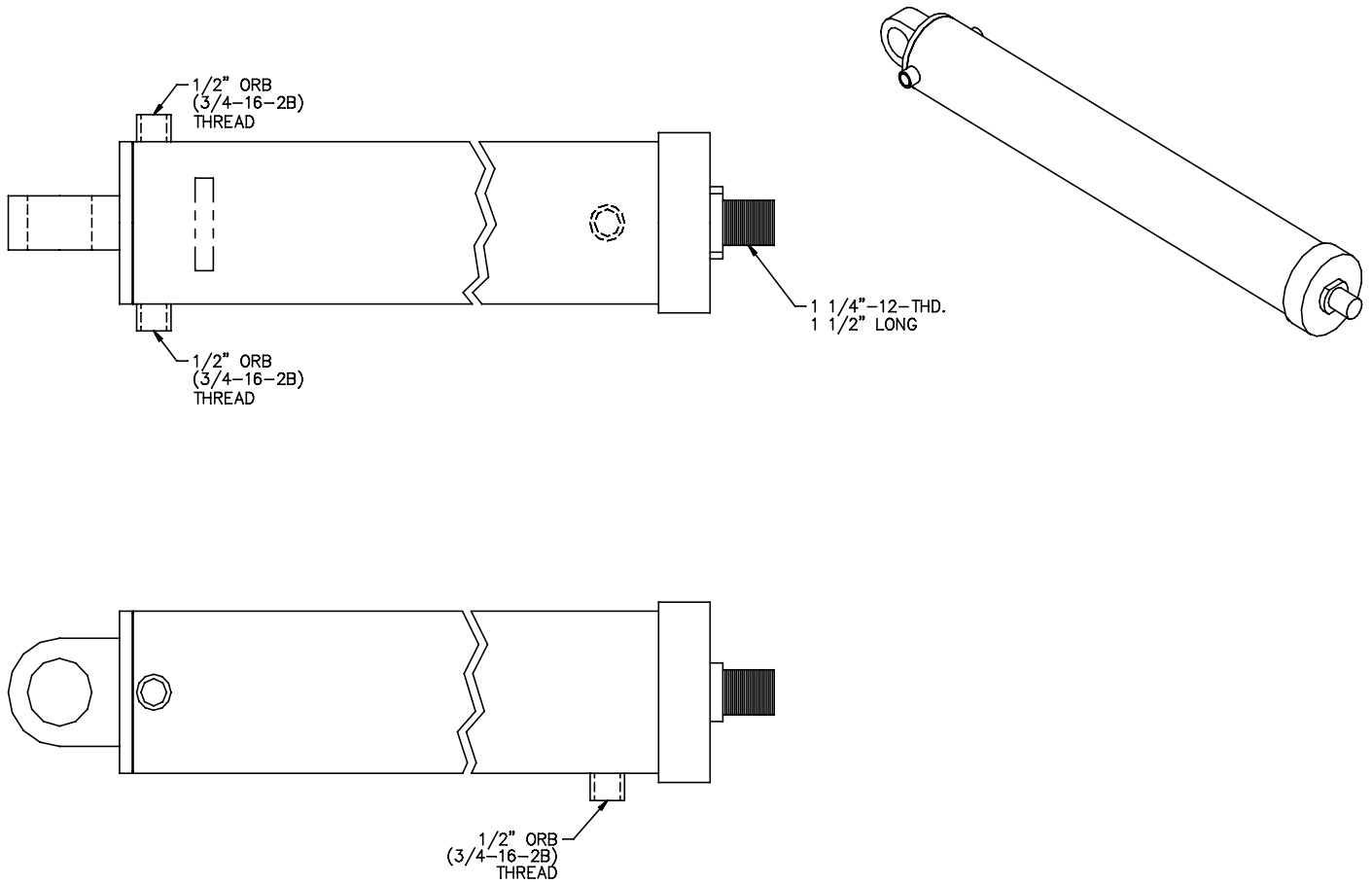
NOTES:

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



CHAPTER 7



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





CHAPTER 8

Group--Water Spray

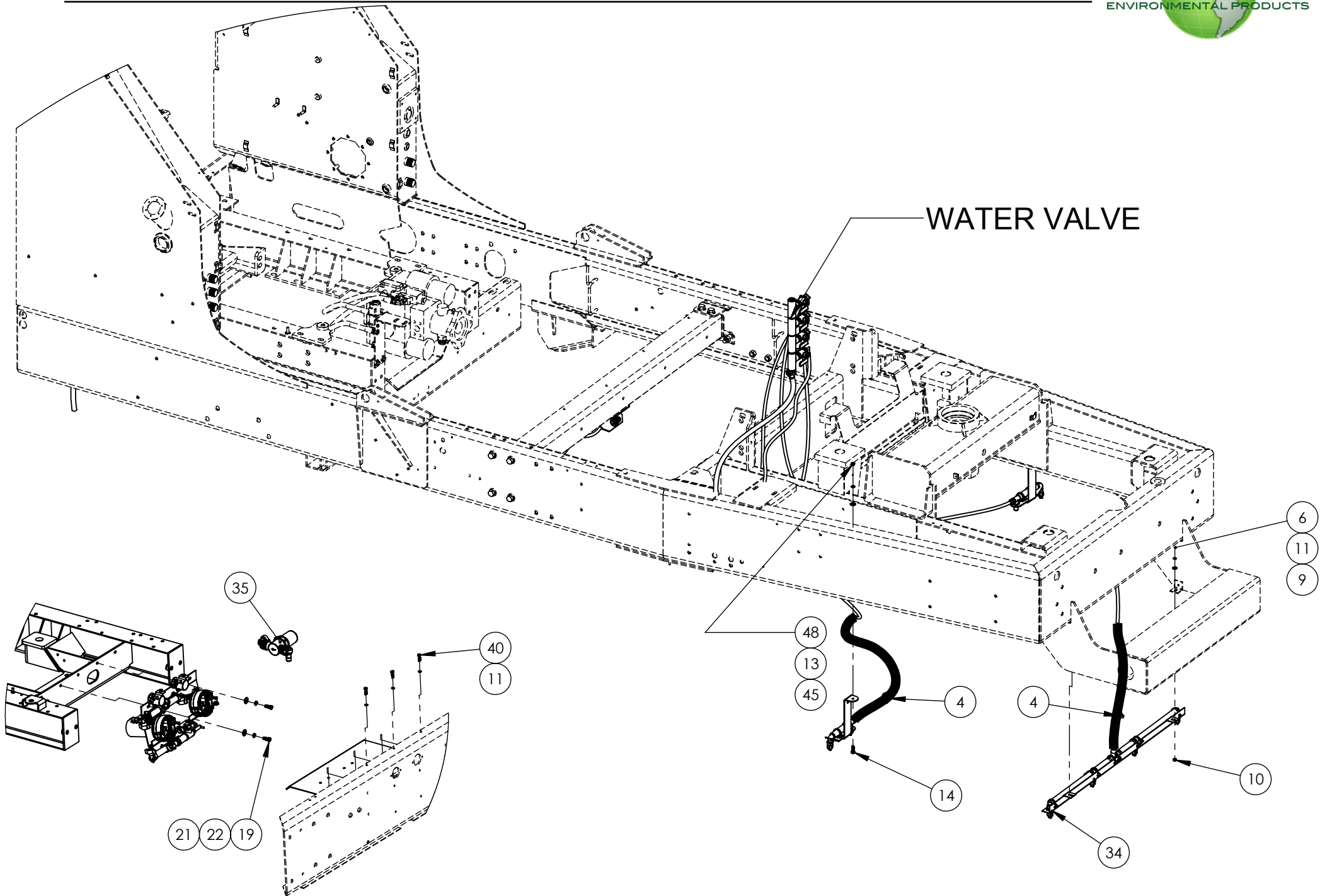
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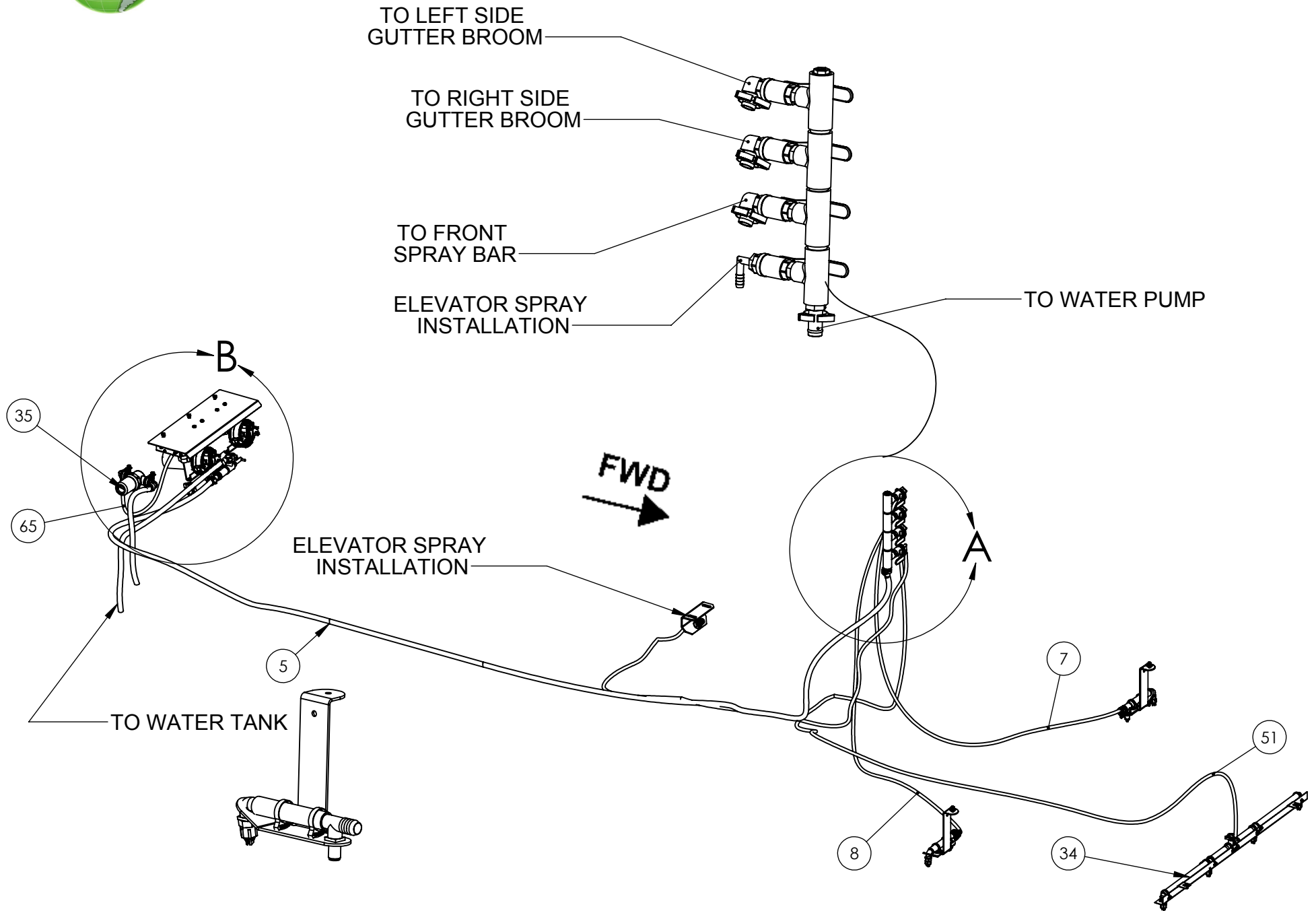
<u>Subject</u>	<u>Page</u>
Water Spray Plumbing Installation	8.4
Water Spray Pumping Assembly	8.8
Water Tank Installation	8.13
Water Tank Fill Installation	8.16
Pickup Broom Spray Bar Assembly	8.19
Water Valve Manifold Installation	8.20
Water Valve Manifold Assembly	8.22
Water Pump Motor Assembly	8.24
Float Switch Assembly	8.26
Hose color chart and nozzles.....	8.28

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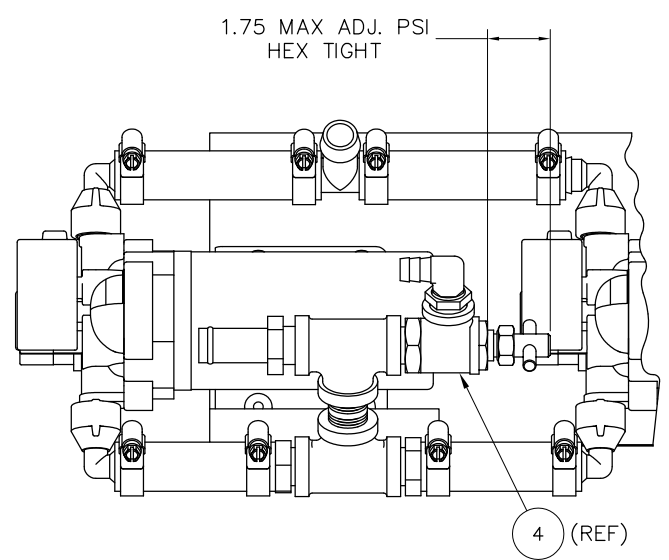
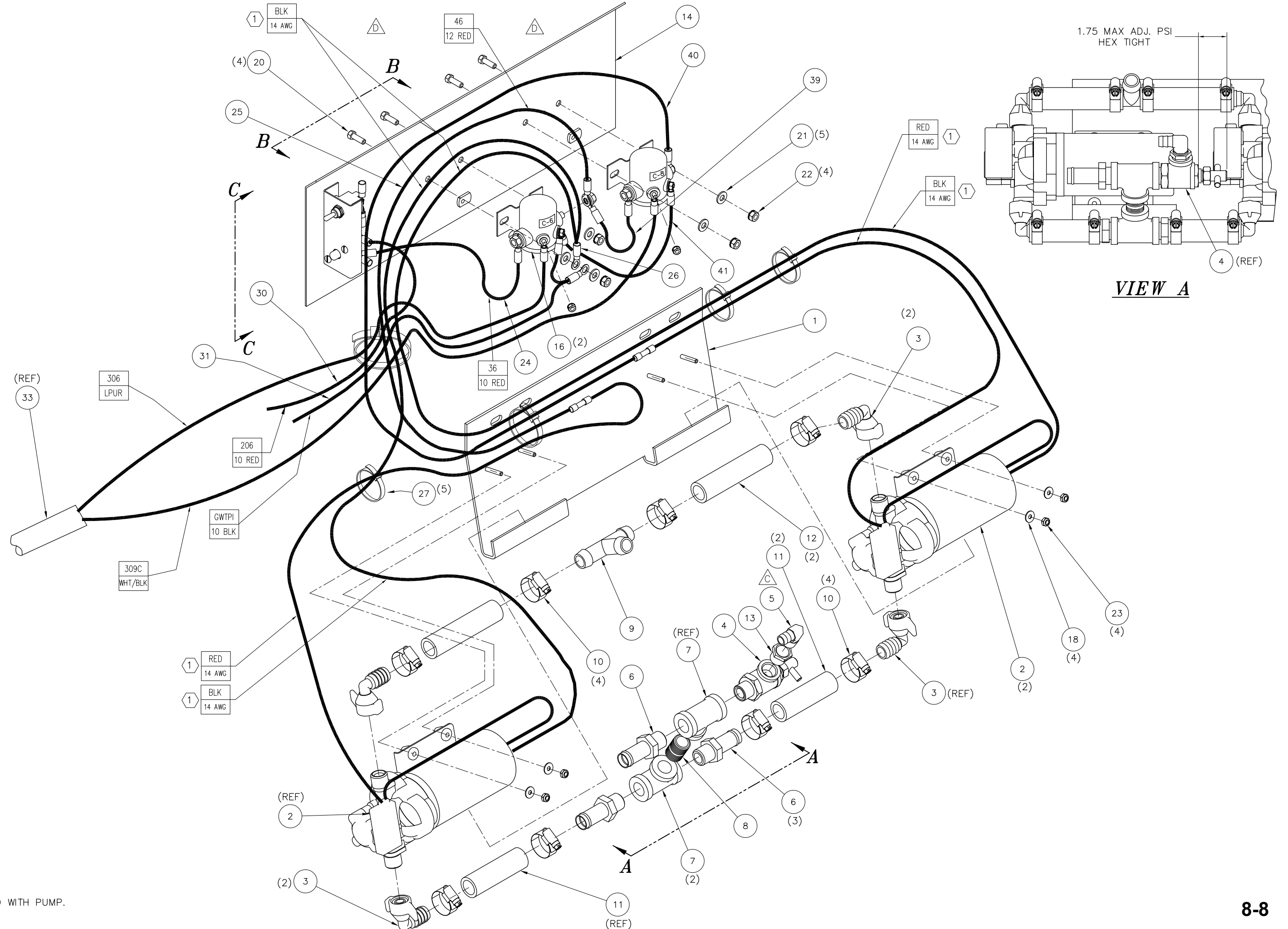


WATER PLUMBING INSTALLATION

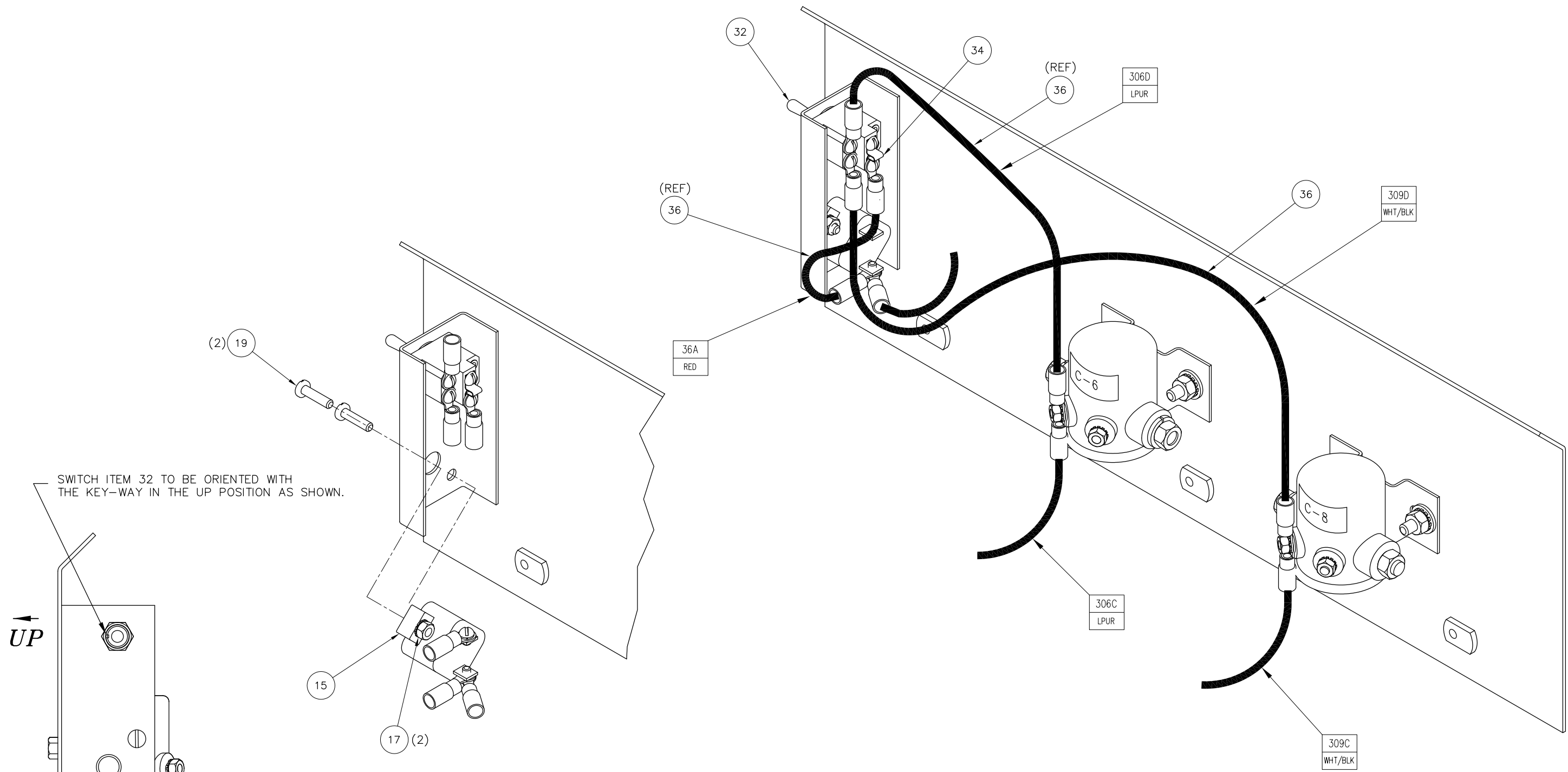
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
REF	323566	WATER PLUMBING INSTL	REV F
4	324482	SNAP GRIP CLAMP#62,61/64-35/32	7
5	893522212-	HOSE, 3/4 ID X 212.0" LG	1
7	893522090	3/4 ID X 90" LG	1
8	893522110	HOSE 3/4 ID X 110" LG	1
9	035605	WASHER,FLAT,Ø 1/4",USS,(3/4" O.D.)	2
10	030703	NUT, HEX, 1/4-20-UNC	4
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



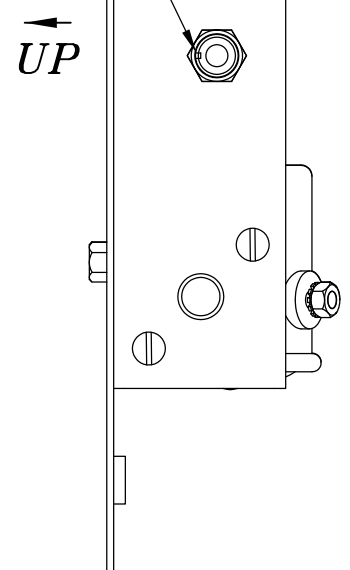
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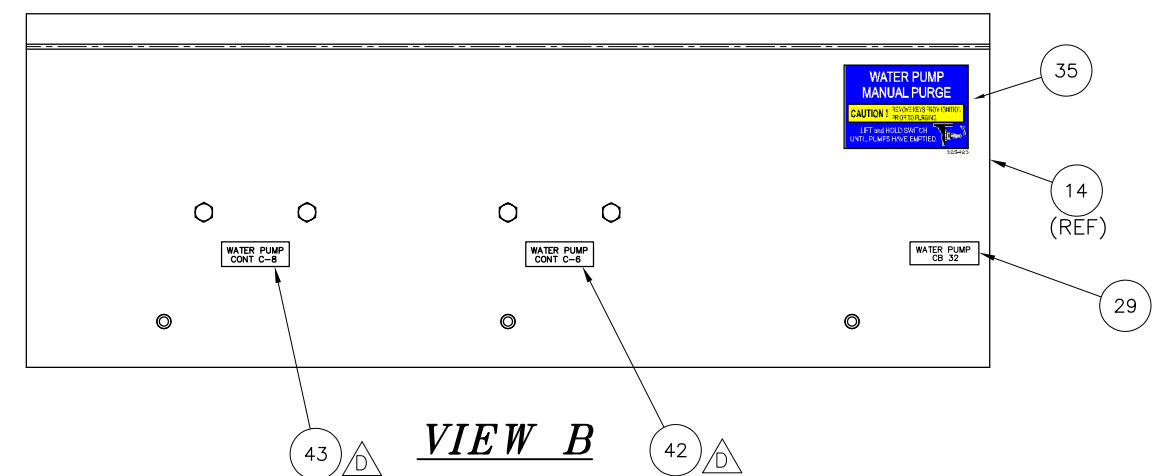
NOTES:
 1. WIRE SUPPLIED WITH PUMP.



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



VIEW C



VIEW B

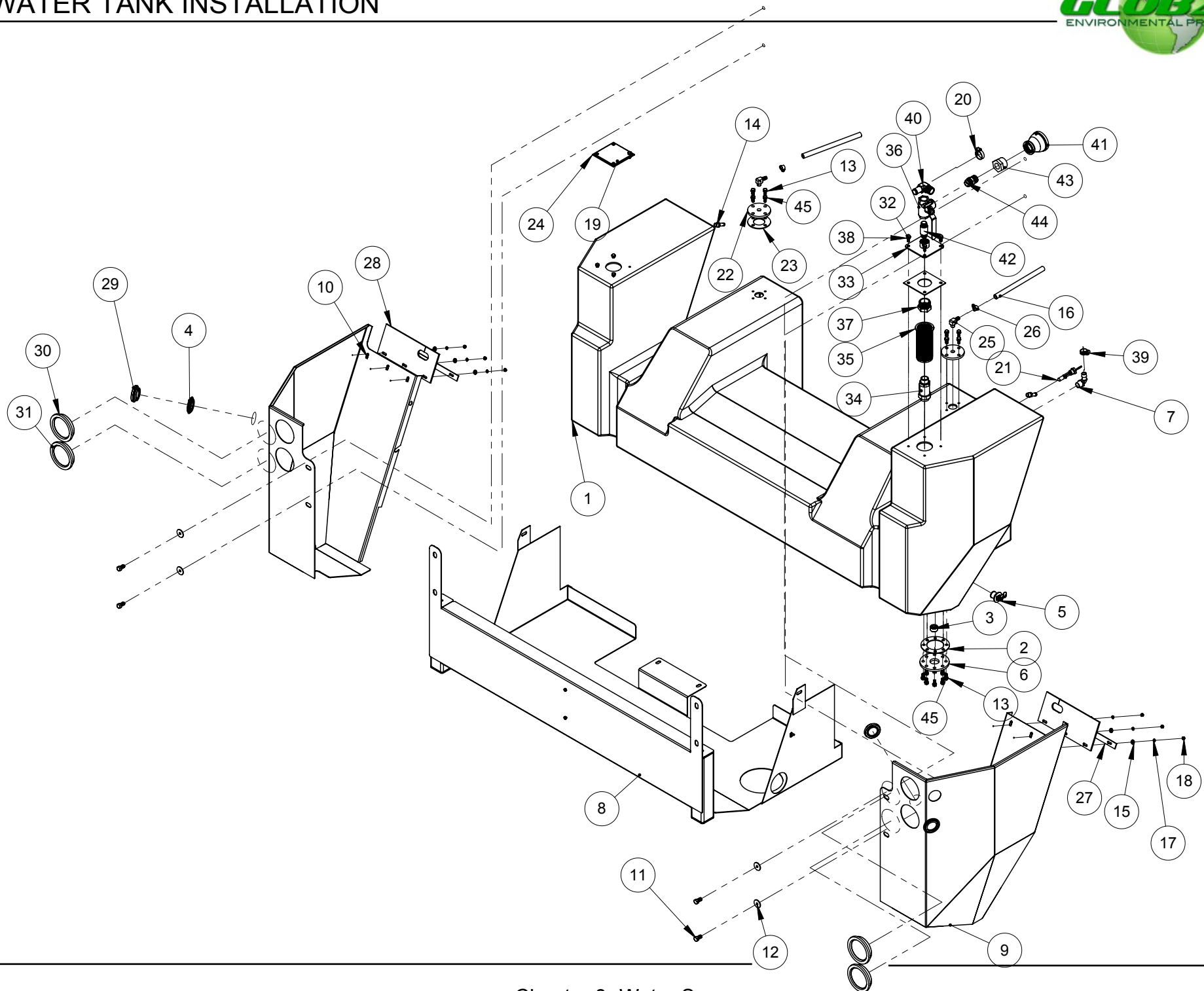
324575 REV *E

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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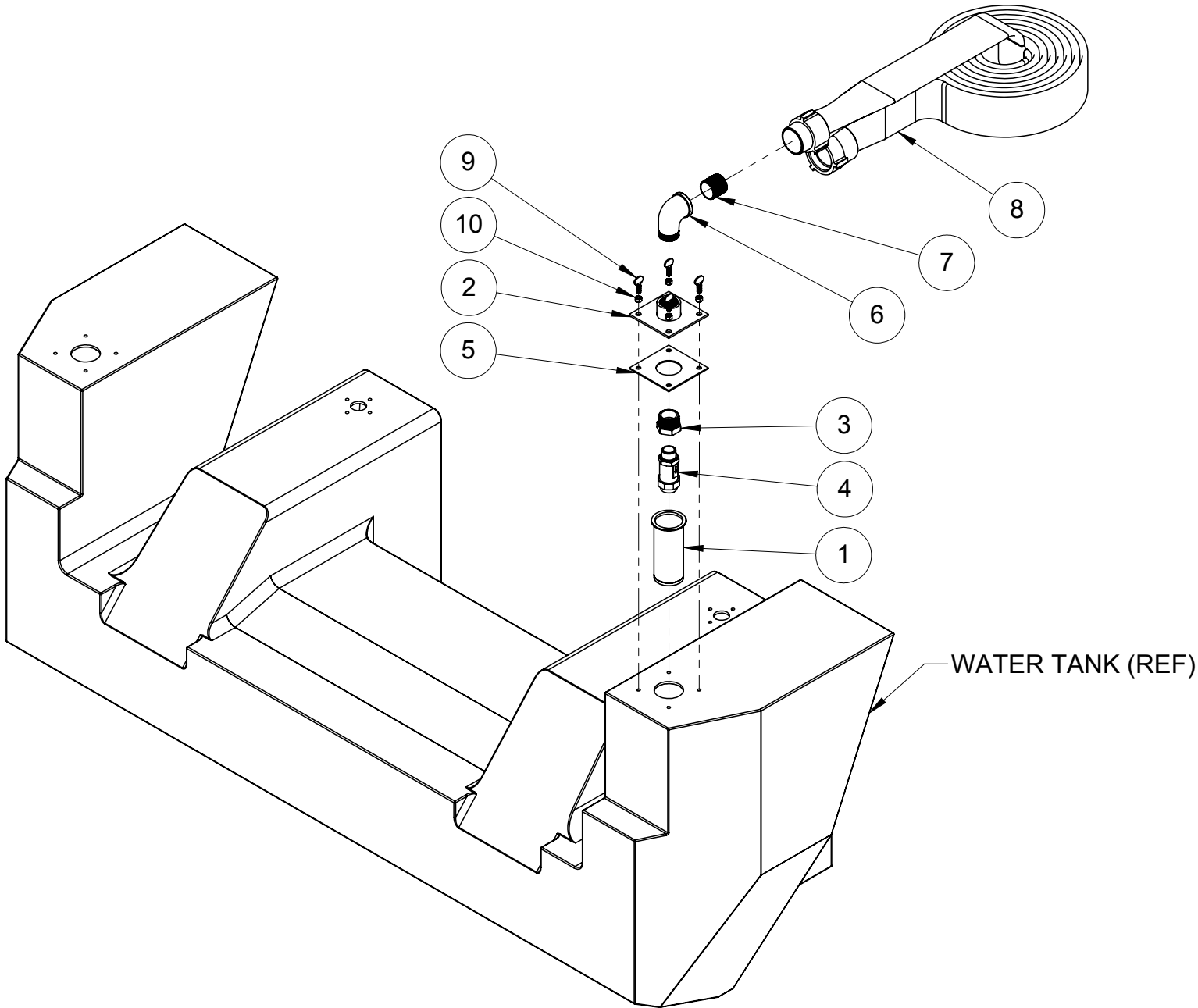
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	331419	TANK, WATER (220 GAL)	1
2	E300556	GASKET	1
3	302876	FITTING,HOLLOW HEX PLUG,MNPT-16,STEEL	1
4	351231-	GROMMET	2
5	E351159	DRAIN PLUG ASSEMBLY, WATER TANK	1
6	E300383	WELDMENT OUTLET ADAPTER	1
7	322912	ELBOW, 3/4" M-NPT X 3/4" BARB NYLON	1
8	331420	SUPPORT, WELDMENT, WATER TANK	1
9	331422	FENDER TANK SUPPORT(RH) SIDE, WLDMT	1
10	331423	FENDER TANK SUPPORT (LH) SIDE, WLDMT	1
11	030636	BOLT,HEX,HEAD,1/2-13-UNC x 1"LG	4
12	030595	WASHER,FLAT,Ø 1/2",USS,(1 3/8" O.D.)	4
13	030605	WASHER,SPRING LOCK,Ø 3/8"	16
14	035478	FITTING,HYD,STR,MNPT-06 X BARB 1/2"	2
15	035605	WASHER,FLAT,Ø 1/4",USS,(3/4" O.D.)	6
16	896044040	HOSE 1/2 ID X 40" LG	2
17	030643	WASHER,SPRING LOCK,Ø 1/4"	6
18	030703	NUT, HEX, 1/4-20-UNC	6
19	E307959	RECTANGLE	1
20	215108	CLAMP,HOSE,Ø1",GEAR TYPE,(11/16@1-1/2)	1
21	322069	FLOAT SENSOR ASSEMBLY	1
22	E312045	FLANGE	2
23	E307278	GASKET	1
24	E307958	GASKET	2
25	308678	FITTING,HYD,90°,MNPT-06(3/8") X BARB 1/2"	2
26	053308	CLAMP HOSE #8 7/16-29/32	2
27	E323731	PLATE, RUBBER FLAP	2
28	323732	RUBBER FLAP- WATER TANK	2
29	351237	LIGHT RED 2"	2 REF
30	350274	STOP & TURN SIGNAL LIGHT	2 REF
31	350275	BACKUP LIGHT	2 REF
32	104649	TBOLT 0.3750-16x1x1-S	4
33	323090	FLANG WLDMNT	1
34	317512	CHECK VALVE-DUAL	1
35	E354986	STRAINER, WATER FILL	1
36	323152	BALL VALVE, 3 WAY-1"NPT	1
37	317513	FITTING,HYD,STR,MNPT-24 X FNPT-16,GALV	1
38	030599	NUT, HEX, 3/8-16-UNC	4
39	040774	CLAMP,HOSE,Ø3/4",GEAR TYPE,(9/16@1-1/4)	1
40	324702	ELBOW, MP-HB90-16-16	1
41	350747	FITTING,HYD,STR, FNPT-40(2 1/2") X FNPT-24(1 1/2"),GALV.	1
42	030101	FITTING , HYD., STR, MNPT -20(1 1/4") x 2 x 2"Lg. NIPPLE	1
43	324724	FIT., HYD, REDUCING, MNPT-24 X FNPT-16	1
44	115072	FITTING,HYD,STR,MJIC-16 X MNPT-16	1
45	039809	BOLT,HEX,HEAD,3/8-16-UNC x 7/8"LG	20



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NOTES
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NOTES, UNLESS OTHER SPECIFIED:

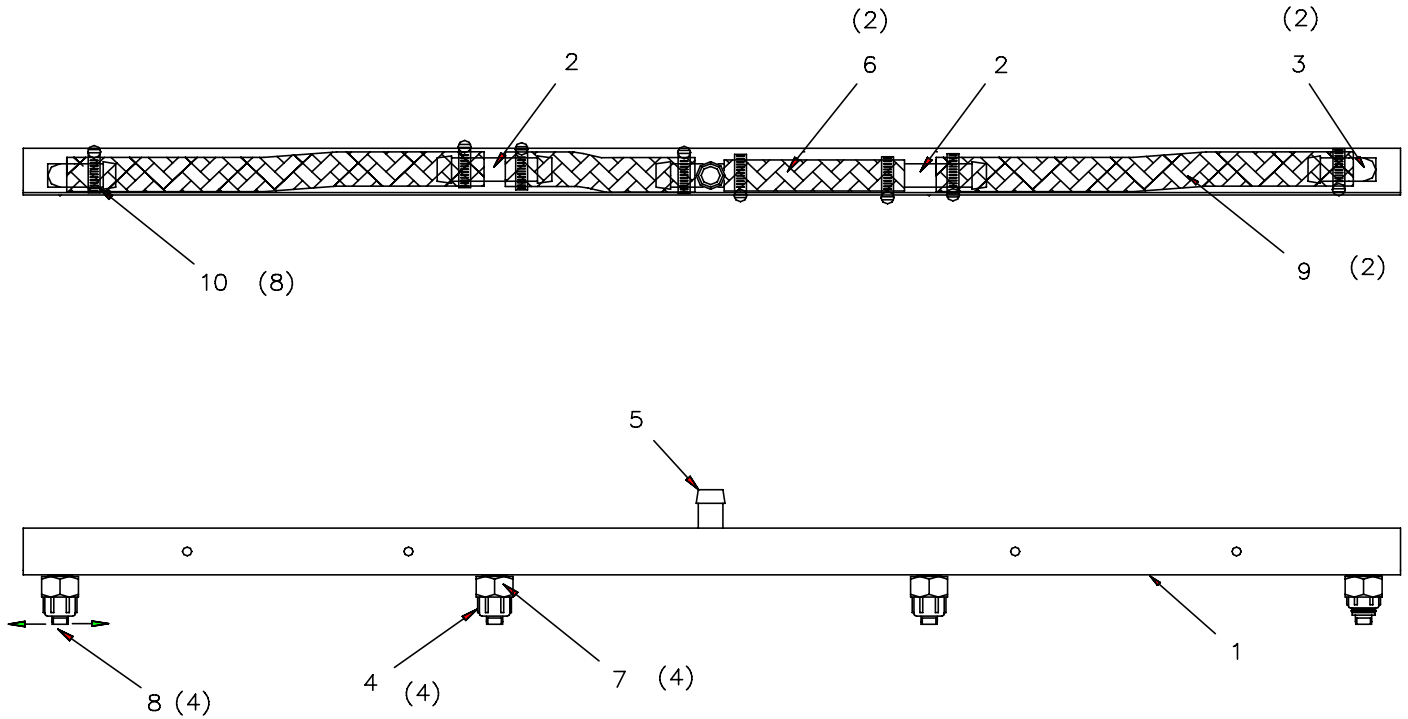
- 1) USE THREAD SEALANT ON ALL PIPE THREADS.
- 2) ITEM (12) NOT SHOWN PART. USE TO BLOCK HOLE IN FENDER WHEN NO FLUSHER OPTION IS INSTALLED.



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



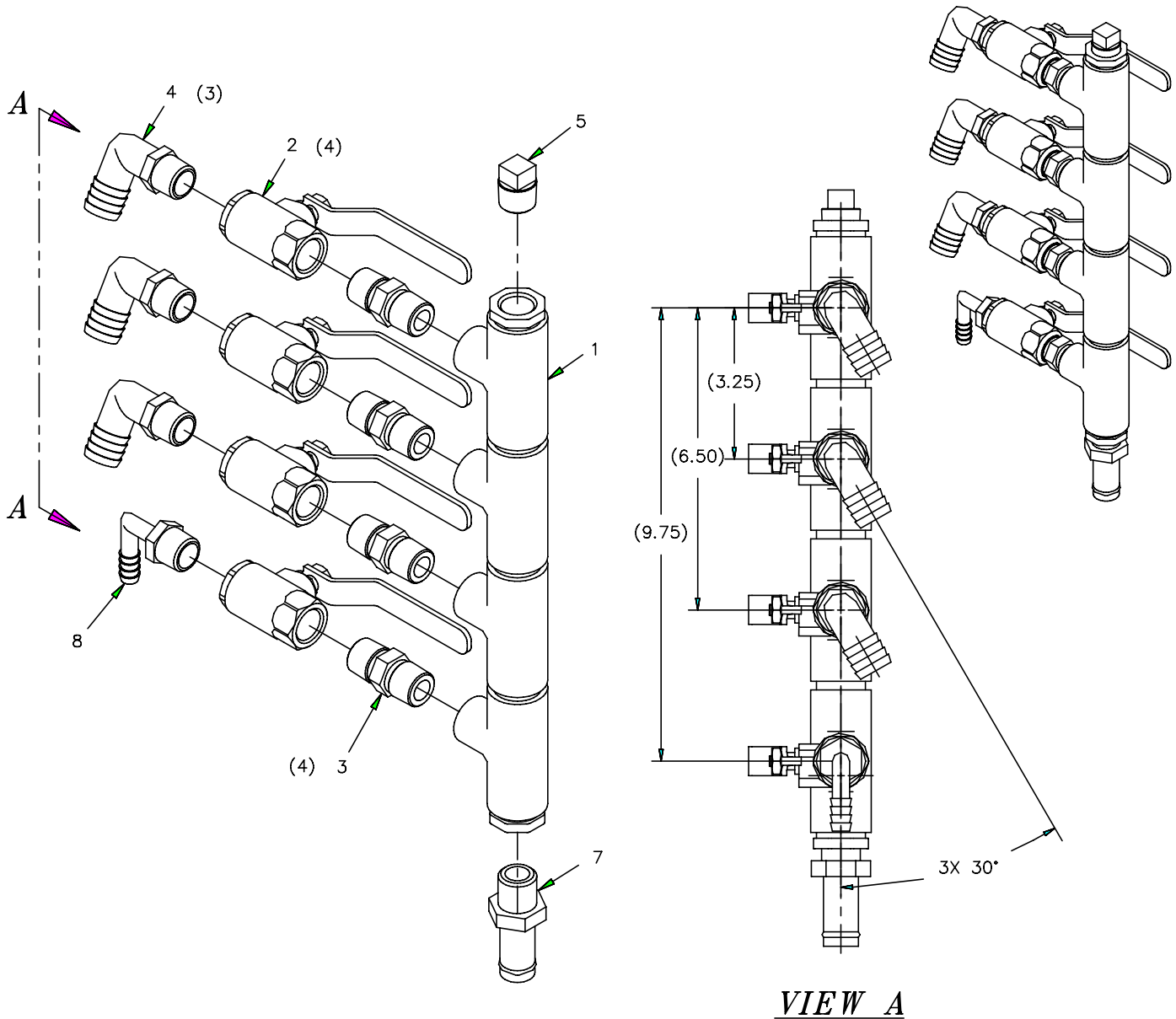
NOTES
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1. NOZZLE, ITEM 8, MUST BE INLINE WITH BRACKET, 4 PLACES. (ARROWS)

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				

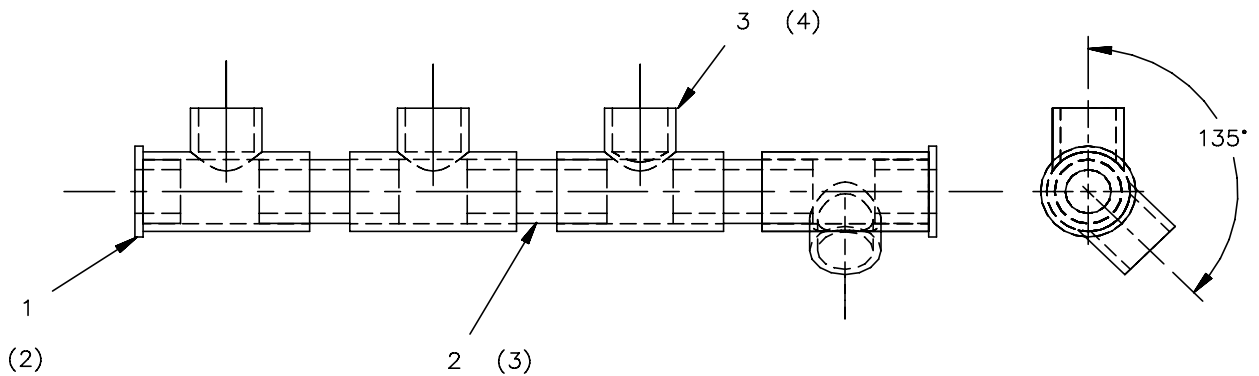
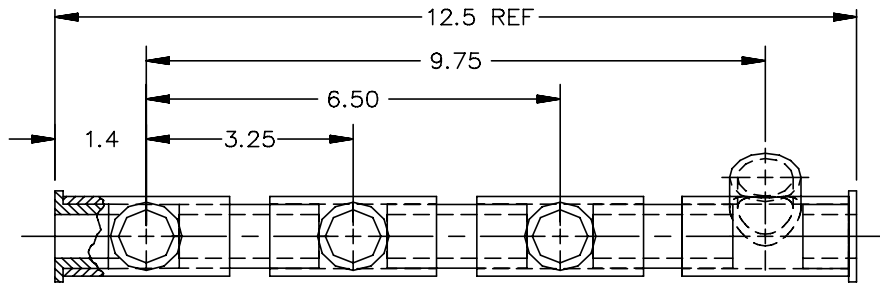
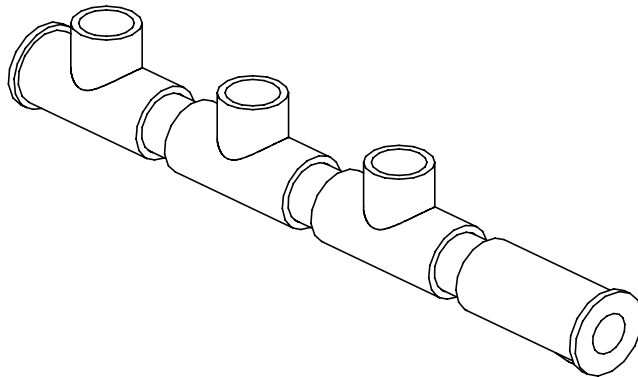


VIEW A

Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	324907	Water Valve Manifold Inst.	B Ref	6	896365	Sealant-pipe Thd	1.00000 0
1	319663	Water Valve Manifold Assy.	1	7	315138	Hose Ftg-push-on 3/4h X 1/2mp	1
2	204325	Valve Ball 1/2	4	8	324910	Elbow, Nylon 1/2mpt X 3/8 Hose	1
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				



NOTES
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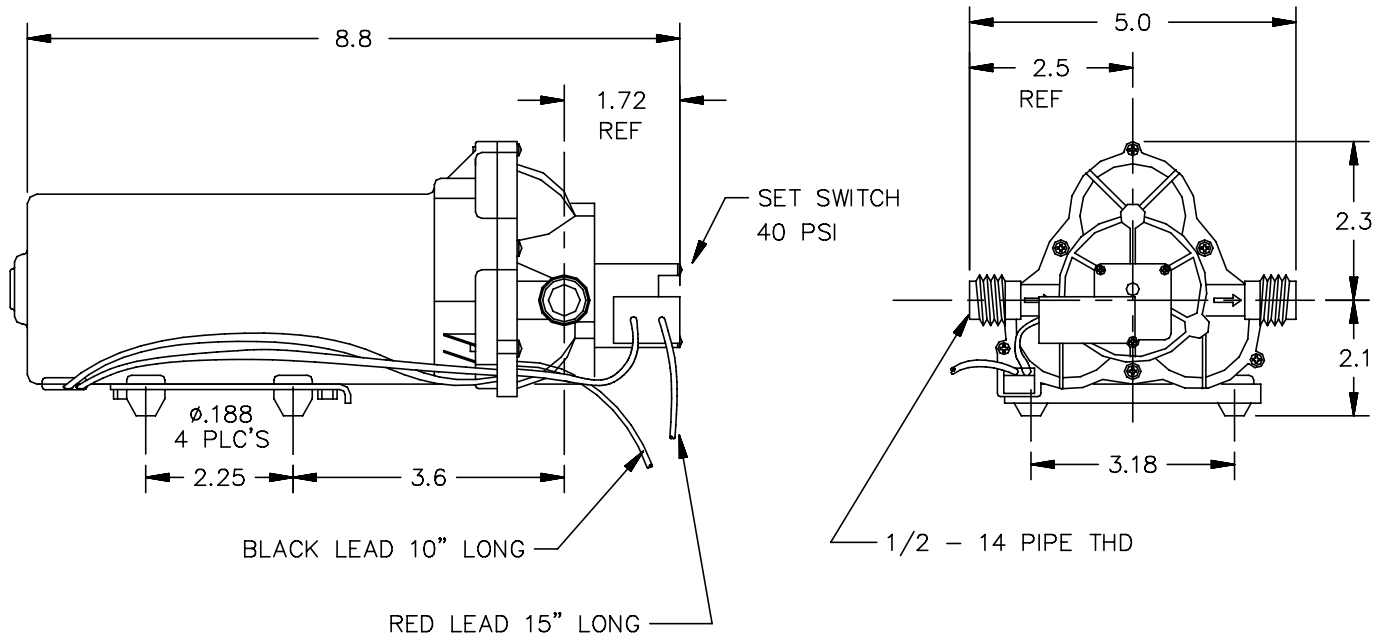


Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	319663	Water Valve Manifold Assy.	C Ref	4	896771	Primer-pvc, Low Voc	0
1	314783	Red. Bush, 3/4 Spg X 1/2 Npt	2	5	896772	Cement-pvc, Low Voc	0
2	314785	Nipple-pvc, 3/4 X 2.2 Lg	3				
3	314784	Tee, Pvc, 3/4 X 3/4 X 1/2 Npt	4				






NOTES
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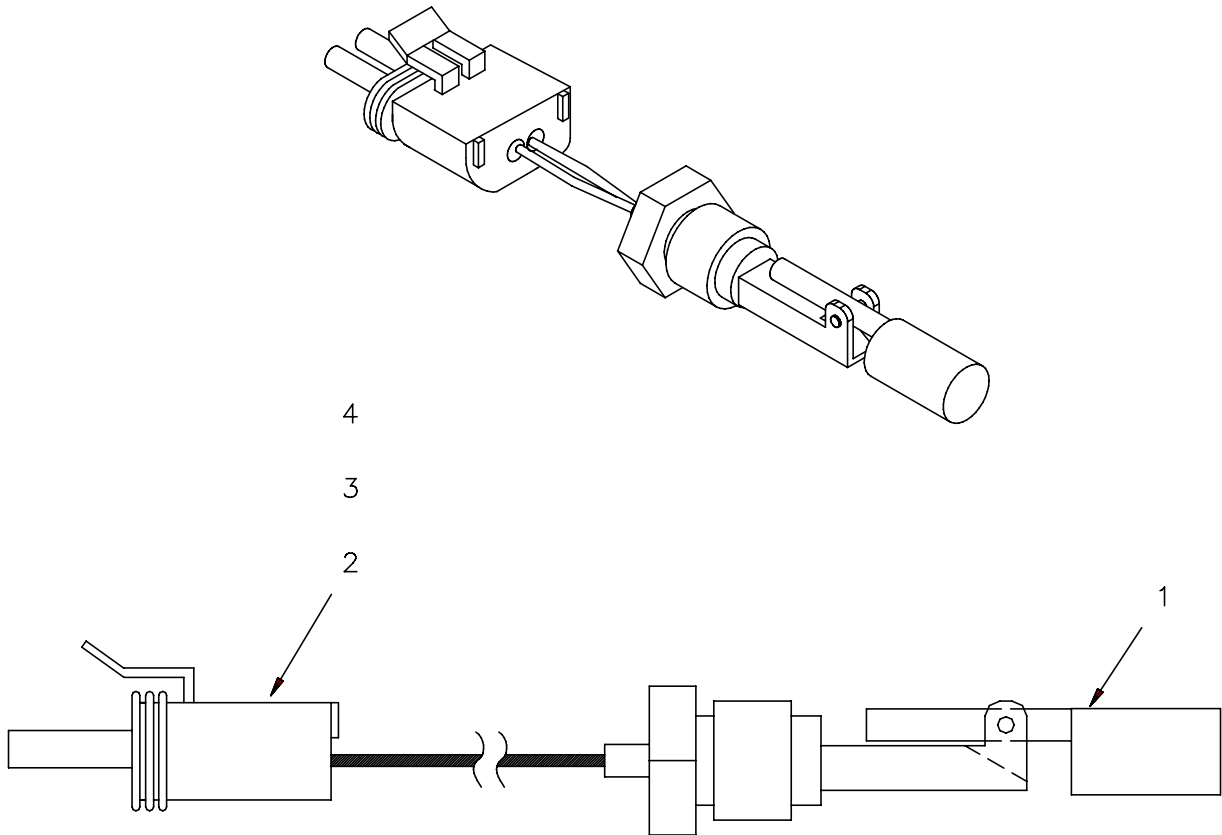


ALL DIM'S REF

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



NOTES
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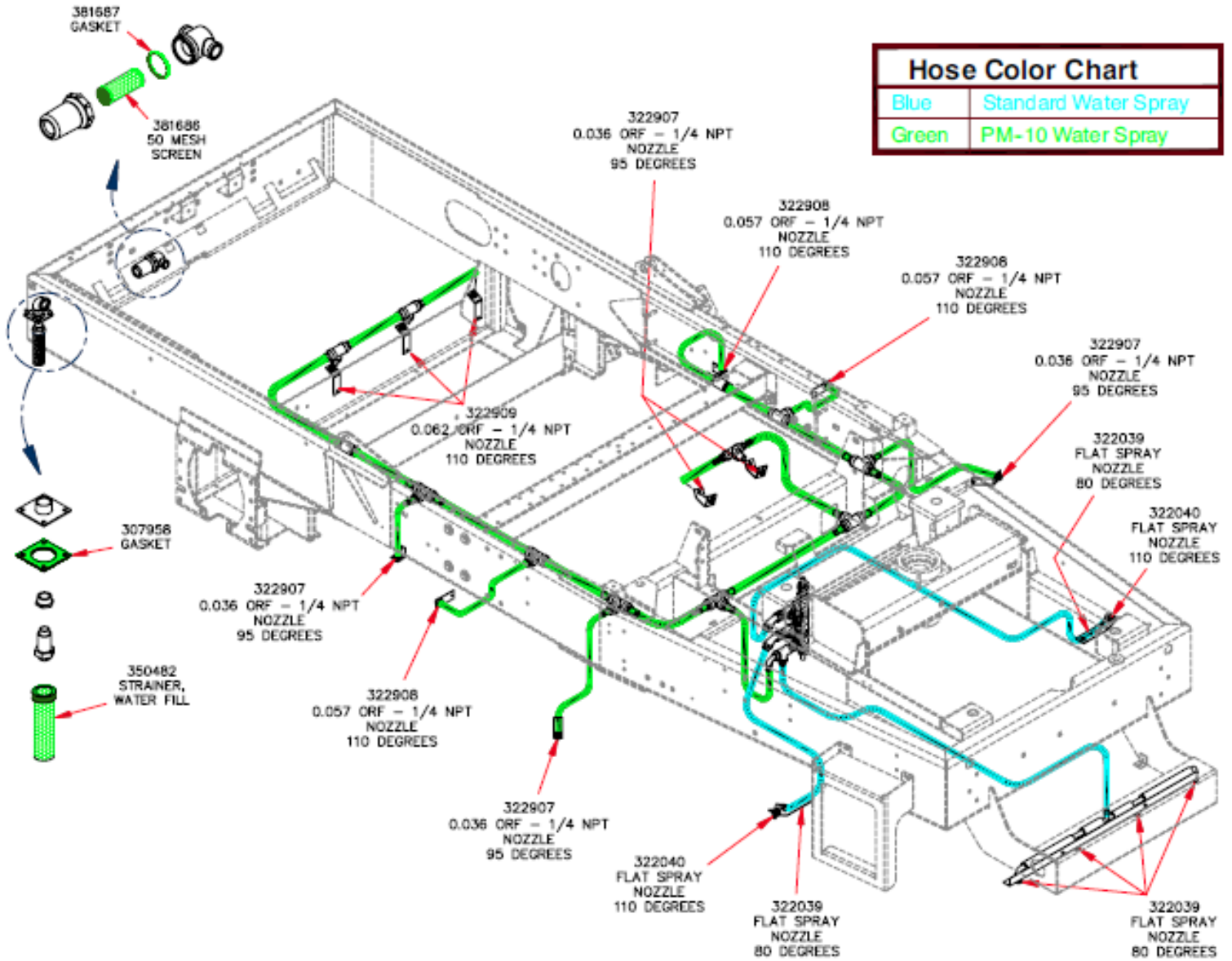


Item	Pt No.	Description	Qty				
-	322069	Float Switch Assembly	E	Ref			
1	319613	Float Switch	C	1			
2	353110	Conn-tower Half (Jc)		1			
					3	353111	Terminal-female (Jd) 2
					4	315686	Seal-Wire (Kf) 2





NOTES
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CHAPTER 9

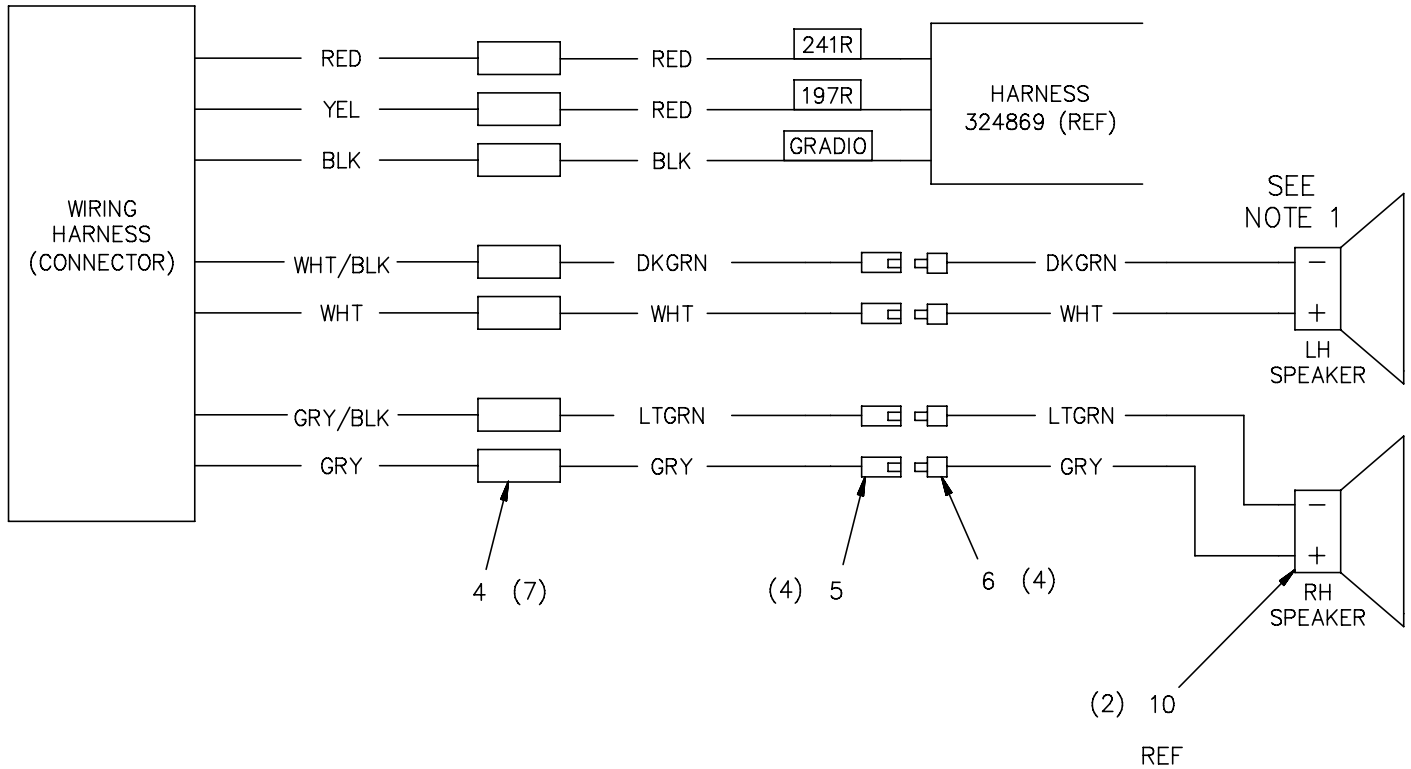
Group--Options

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CHAPTER 9

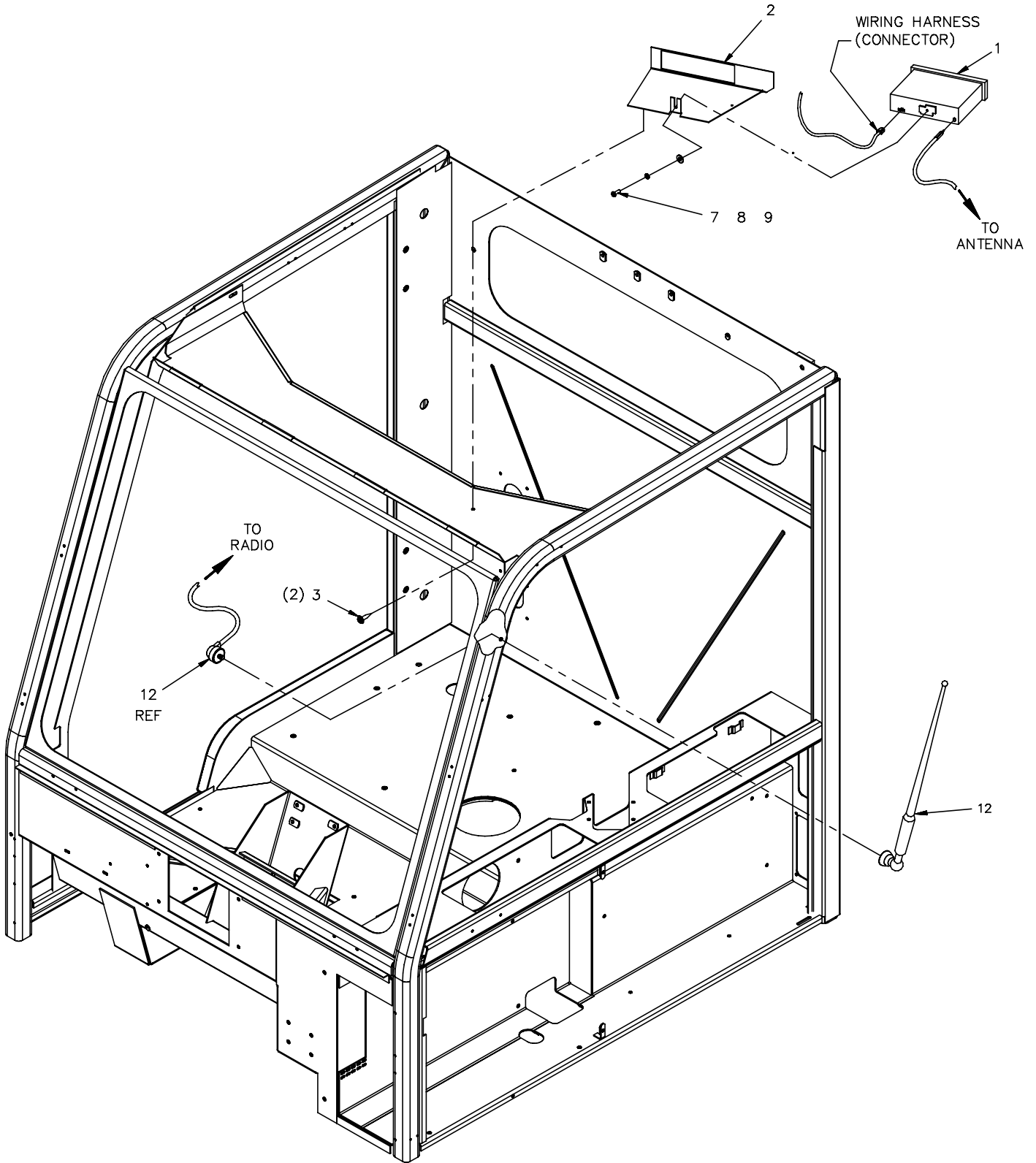


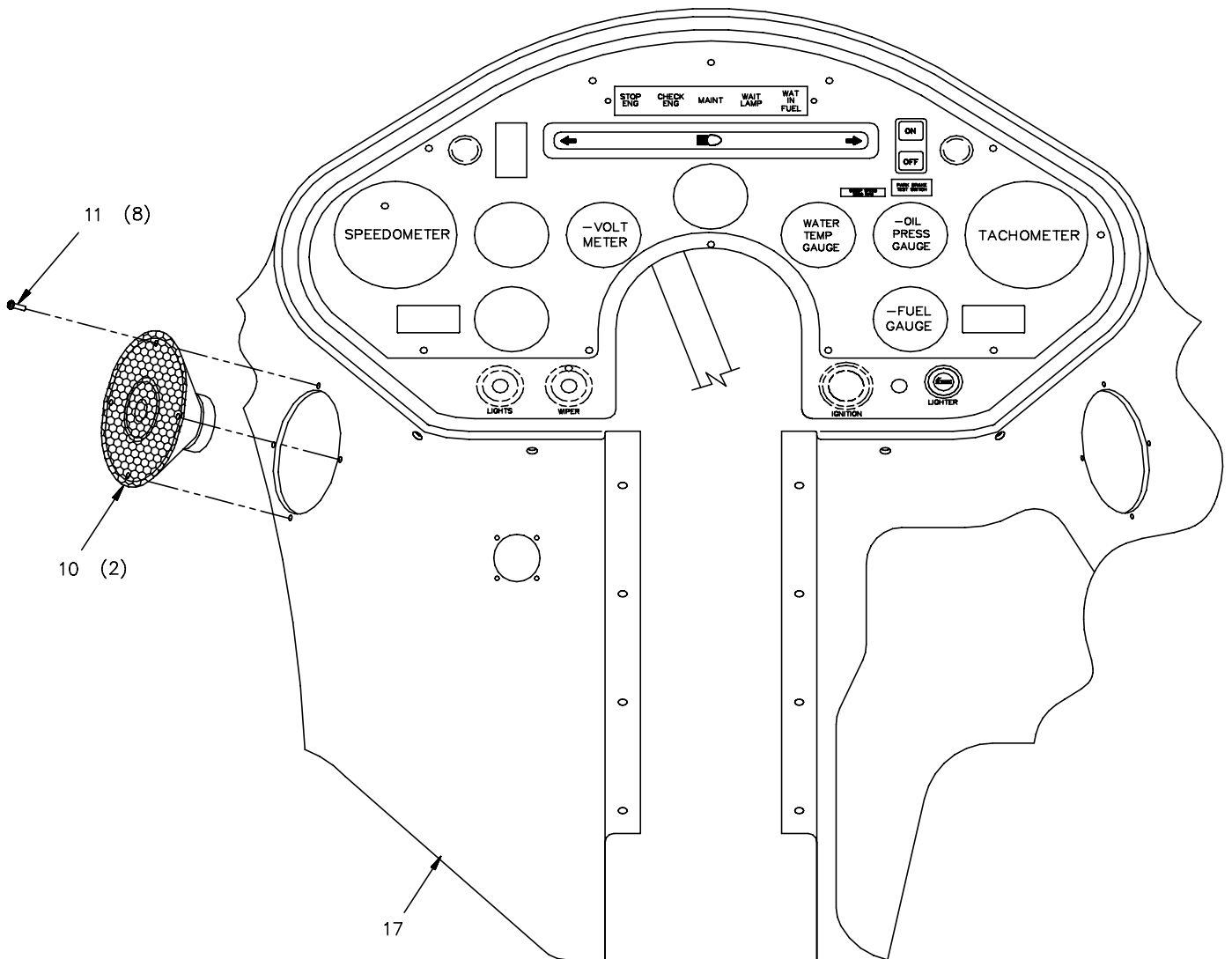
CUT AND ASSEMBLY SHEET

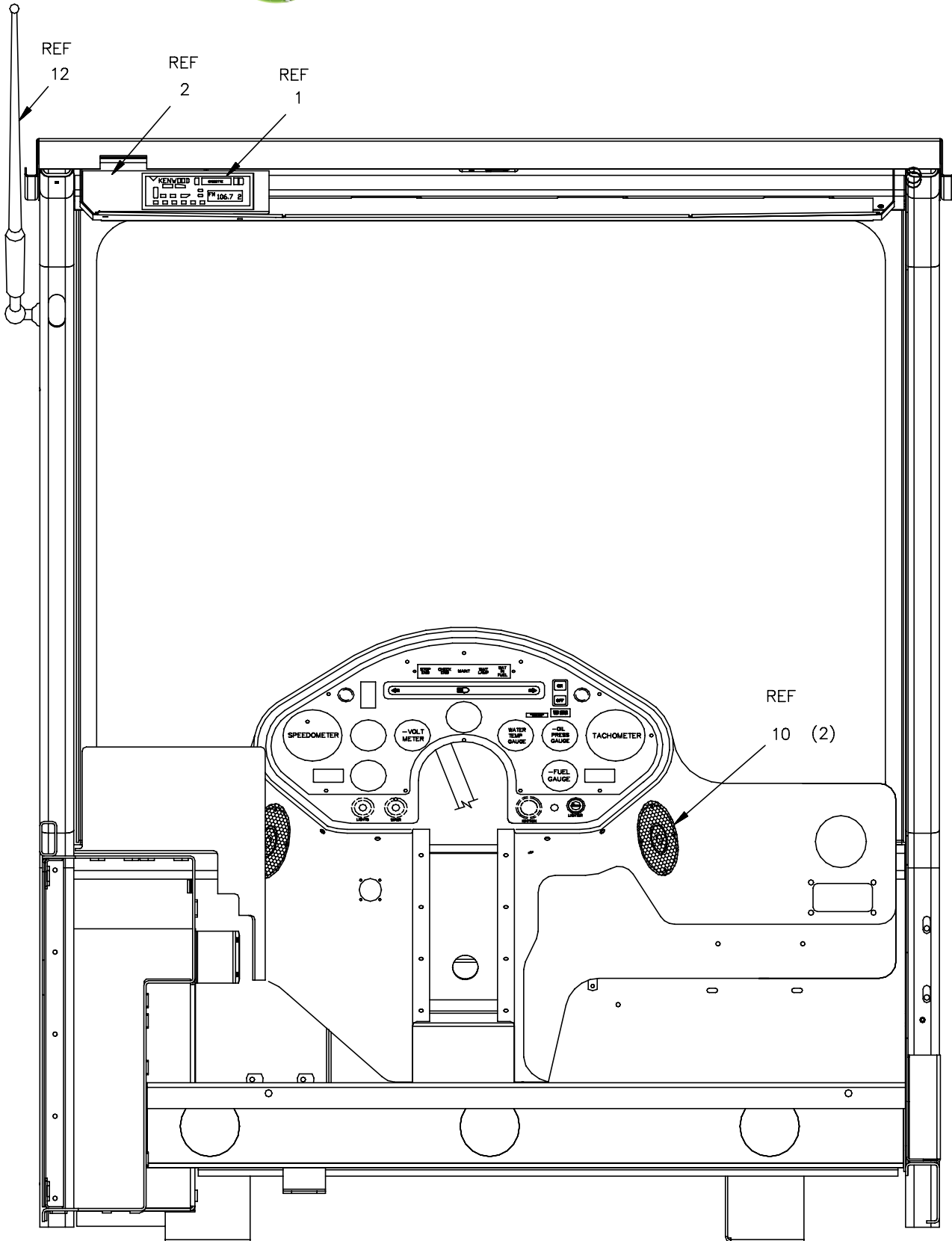
AWG	COLOR	LINE #	LABEL	LNG	FROM	TO	STOCK #	TERM-1		TERM-2	
								JSC P/N	COD	JSC P/N	COD
18	DGRN		LFTSPK	90	RD (WHT/BLK)	SPK CONNECT	896871	352447		352456	NU
18	DGRN		LFTSPK	12	LF SPK (-)	SPK CONNECT	896871	SEE NOTE 1		352445	NJ
18	WHT		LFTSPK	90	RADIO (WHT)	SPK CONNECT	896867	352447		352456	NU
18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

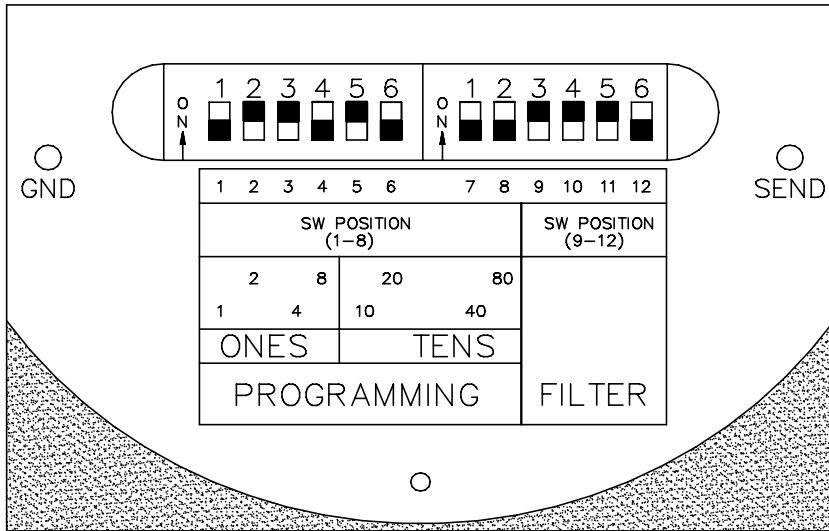
Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	325256	Radio Installation	B Ref	13	896871	Wire 18 Ga Green	102
1	375103	Radio Am/Fm/Cd Player	1	14	896867	Wire 18 Ga White	102
2	325127	Bracket, Radio	1	15	896870	Wire 18 Ga Light Green	102
3	325138	Scr Typ A #10x1/2 Ovl W/Cs Was	2	16	896868	Wire 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				





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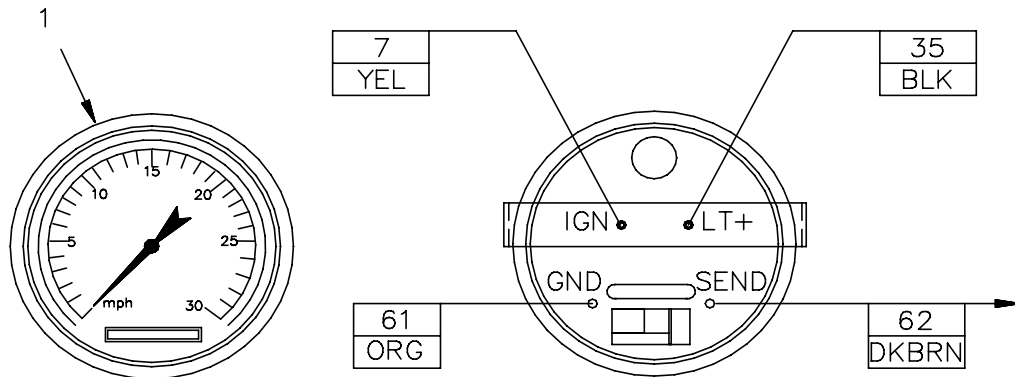
CHAPTER 9



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

 ONES TENS FILTER

PROGRAM = 0110-1000-1110



$$\text{TIRE/REV} \times \# \text{ OF TEETH} \times \text{MAX SPEED} \times \text{RATIO} = \frac{3787560(3788)}{3600} = 1052 \text{ FSF}$$

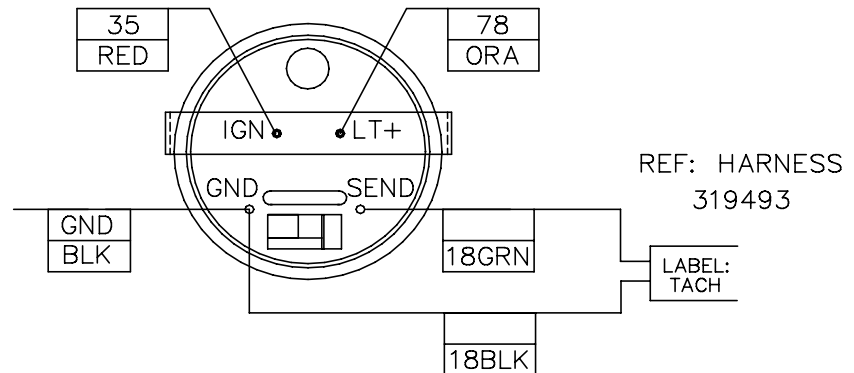
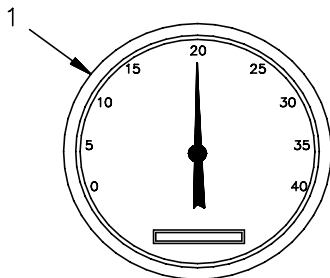
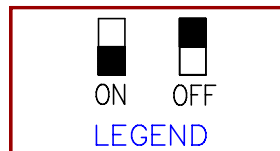
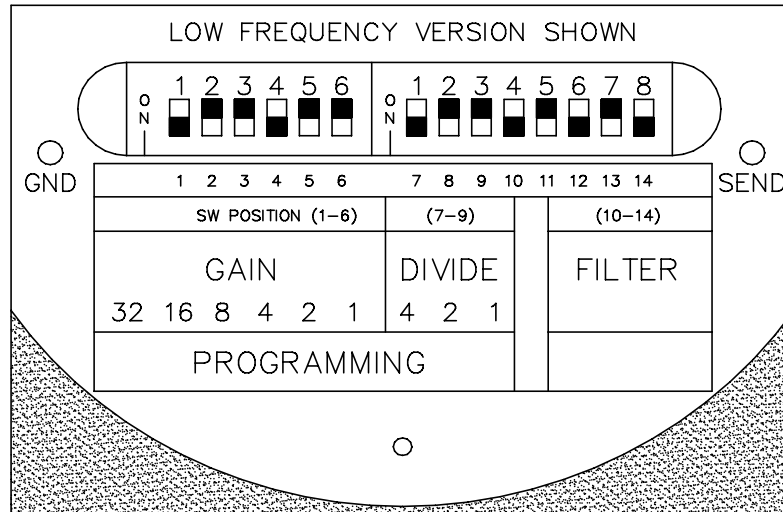
$$\frac{1052 \text{ FSF}}{66.66 \text{ CONSTANT (d)}} = 1578(16) \text{ PROGRAM DIVIDE NO.}$$

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





NOTES
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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

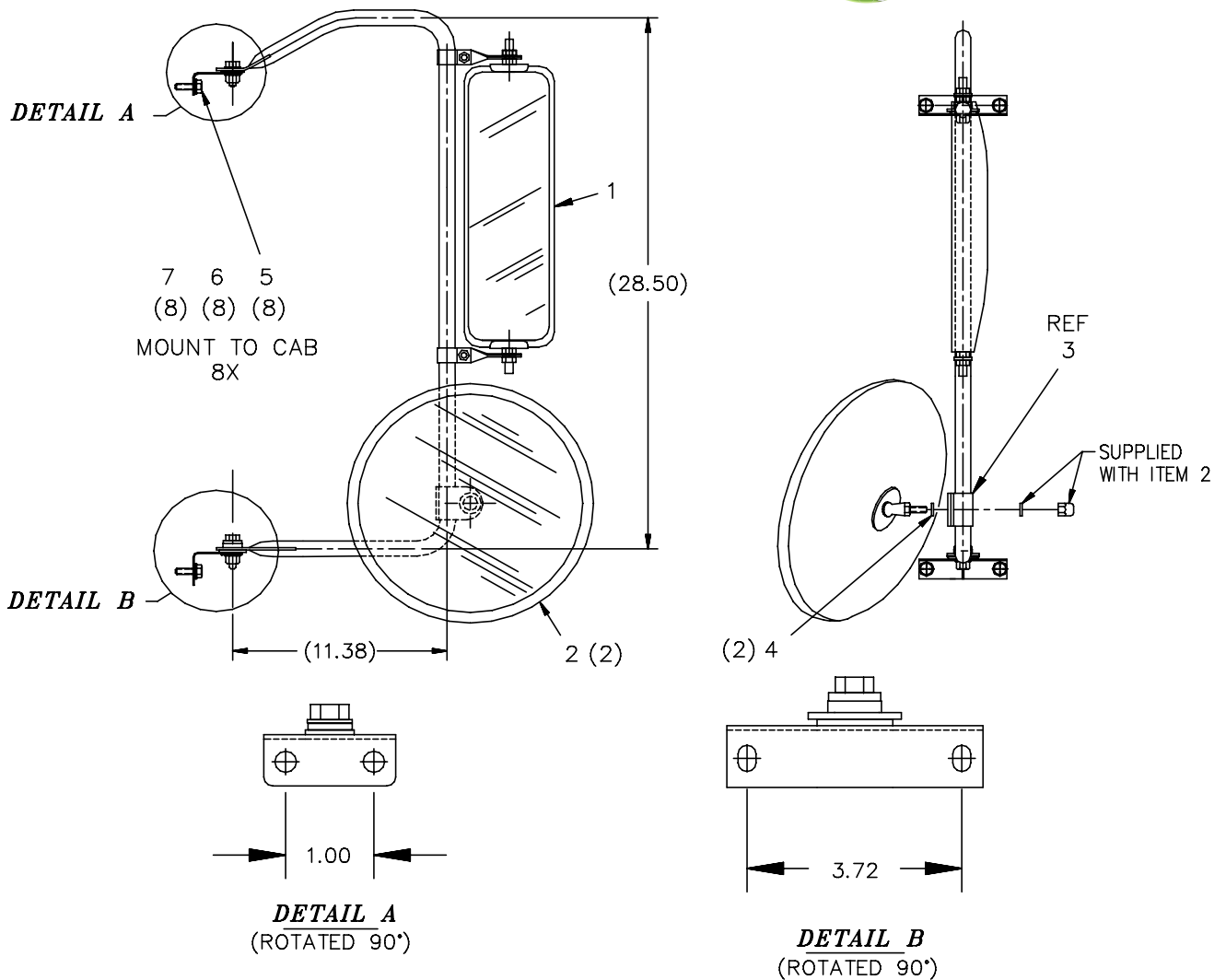
Item	Pt No.	Description	Qty
-	320280	Tachometer- Programmable	Ref
1	311702	Tachometer- 4k RPM Alt	1





NOTES
NOTES

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





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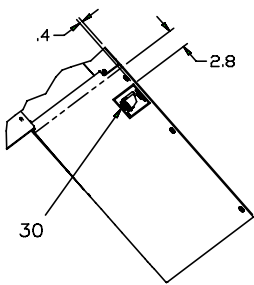
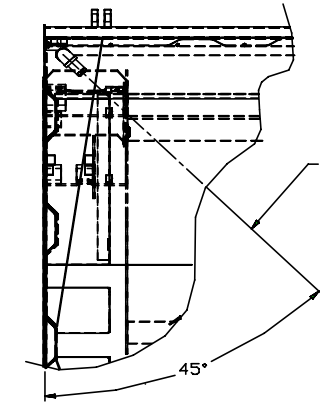
Elevator & Hopper Flusher Installation



VIEW - AA

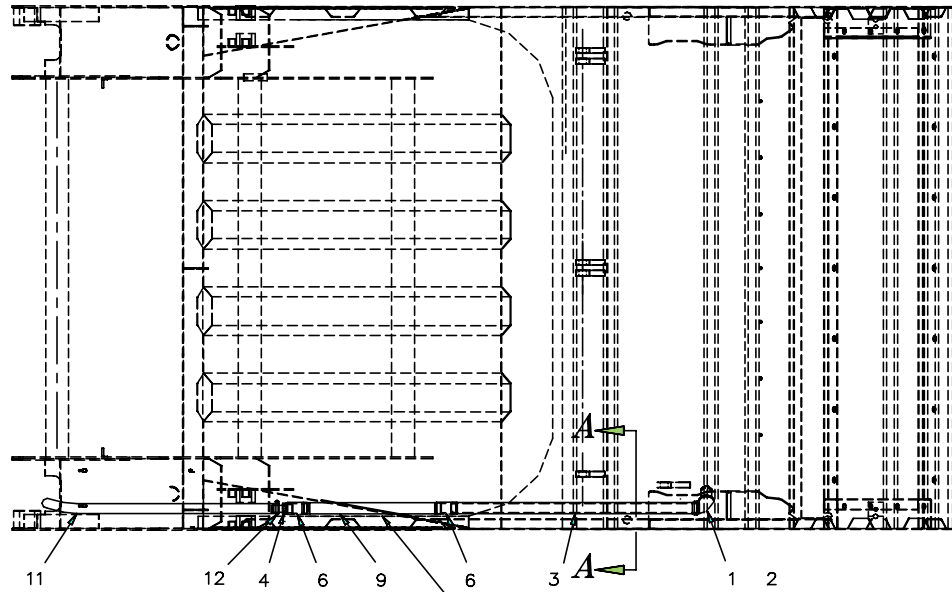
SCALE: NONE

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



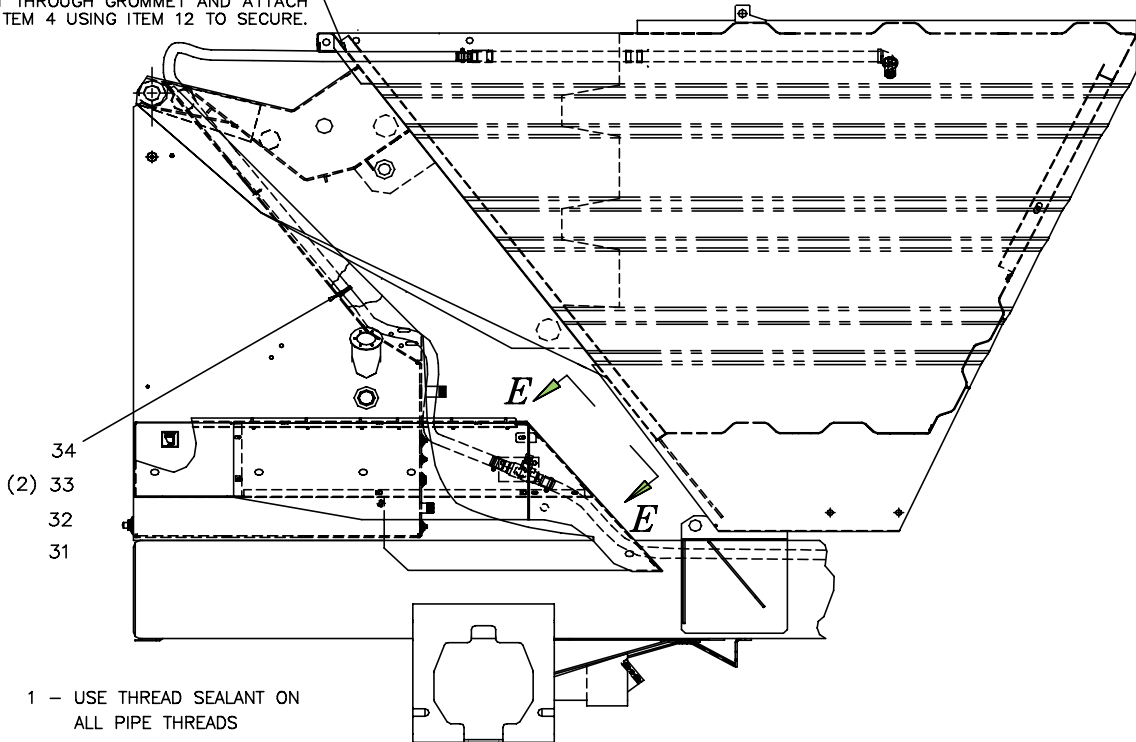
VIEW - EE

SCALE: NONE



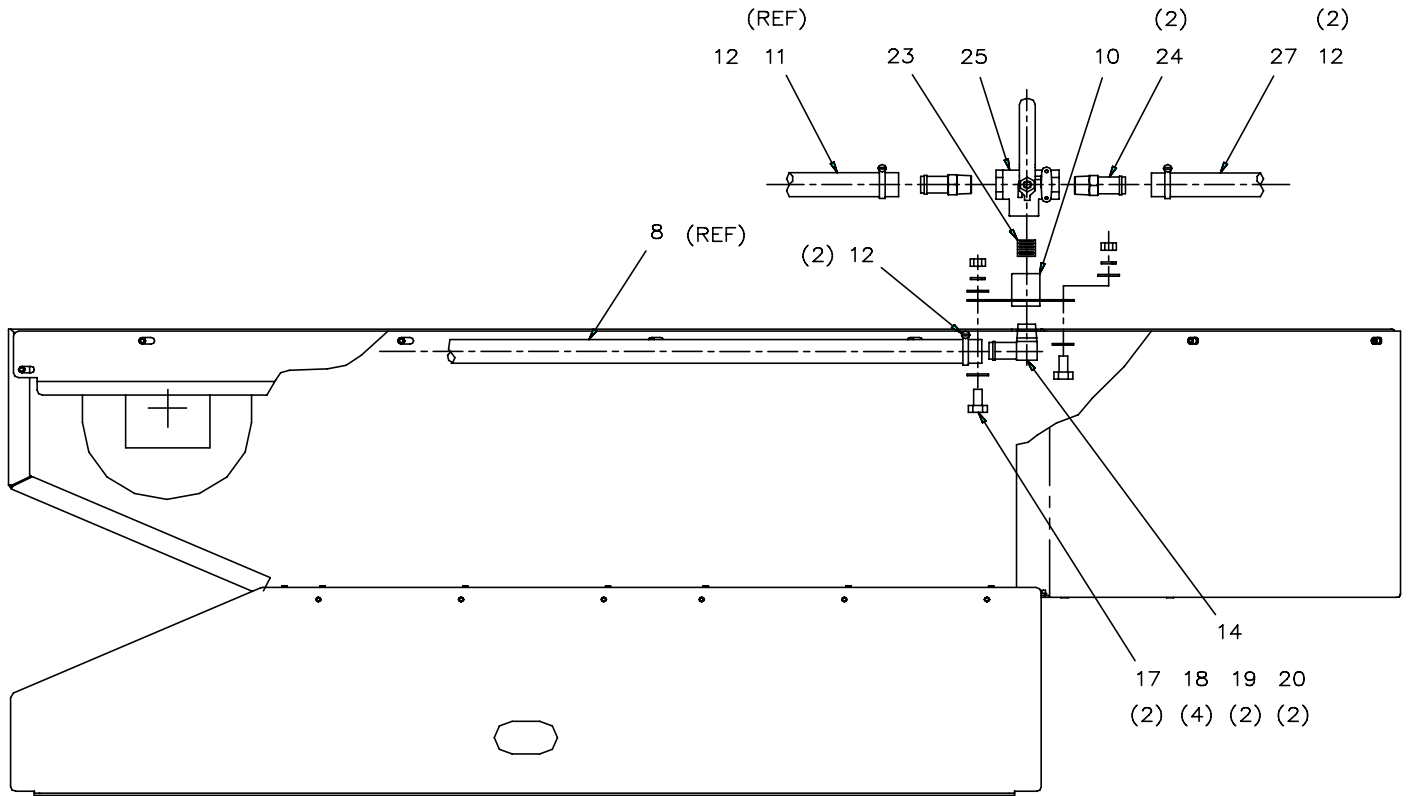
REMOVE PLUG FROM REAR FLOOR PLATE
AND INSTALL GROMMET ITEM 5. FEED HOSE
ITEM 11 THROUGH GROMMET AND ATTACH
TO ITEM 4 USING ITEM 12 TO SECURE.

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



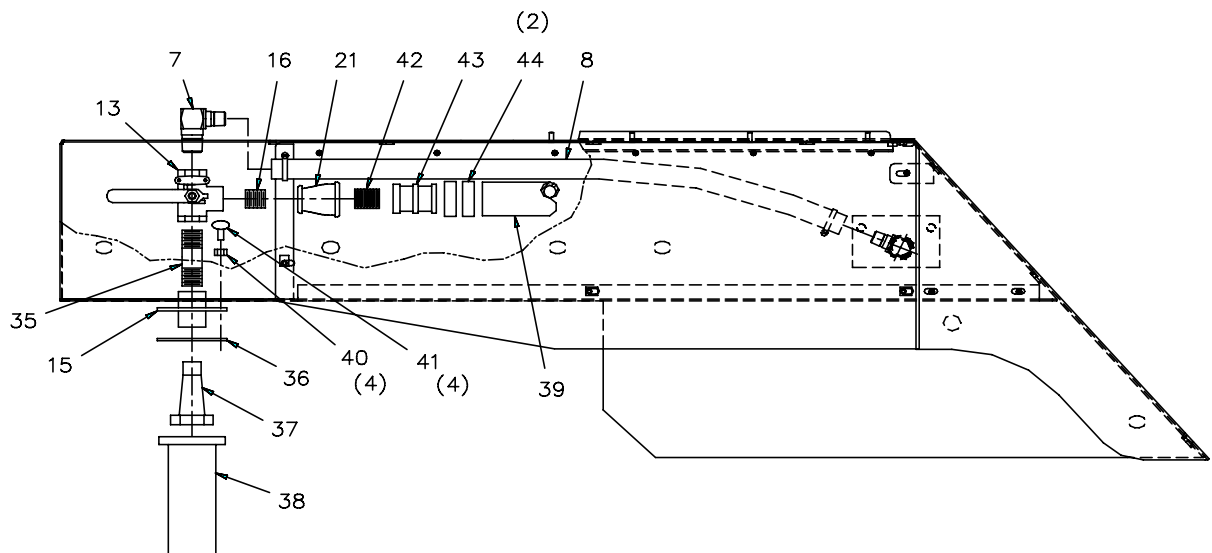
1 - USE THREAD SEALANT ON
ALL PIPE THREADS

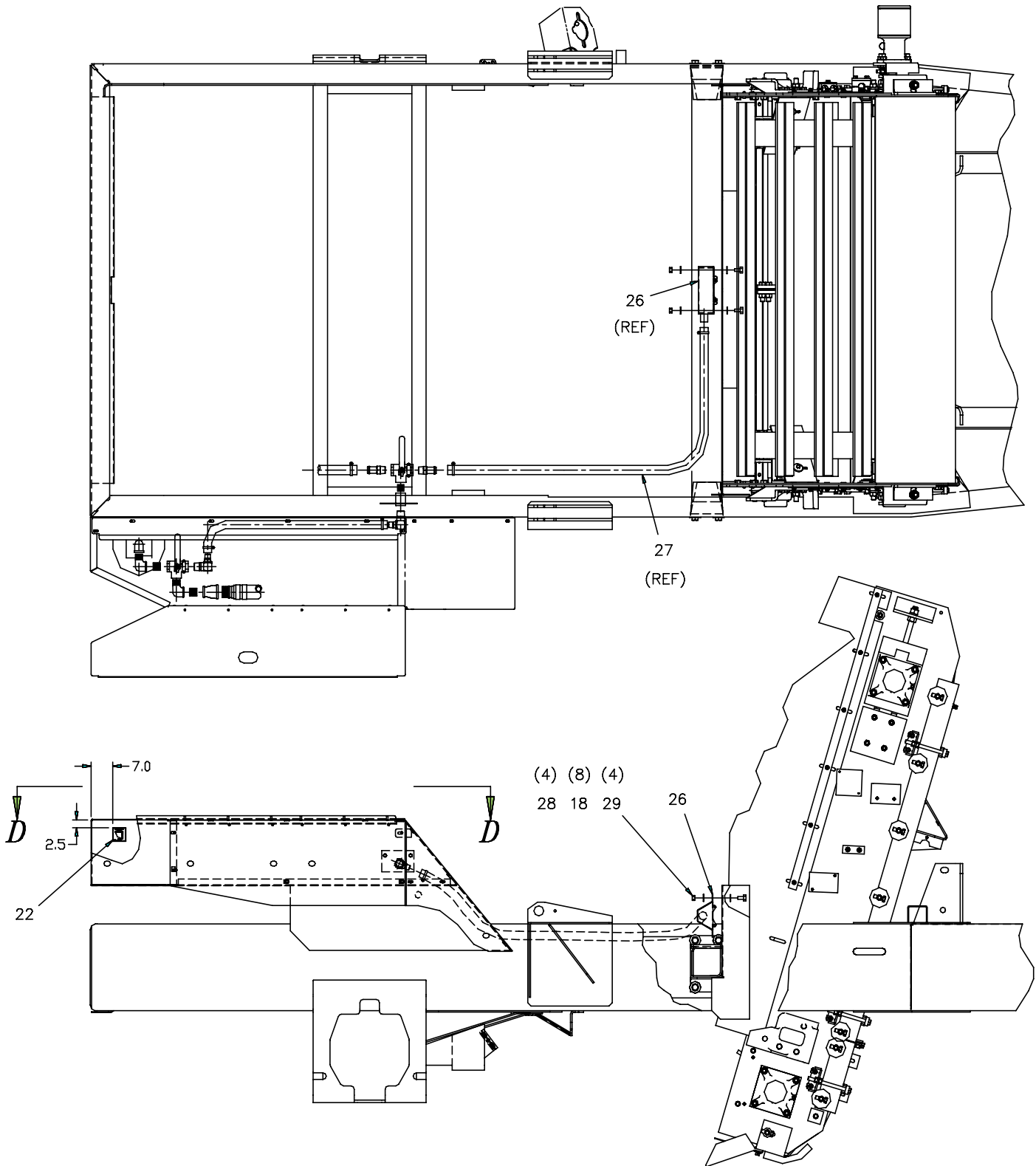
NOTES, UNLESS OTHERWISE SPECIFIED;



VIEW — DD

SCALE: NONE







Elevator & Hopper Flusher Installation

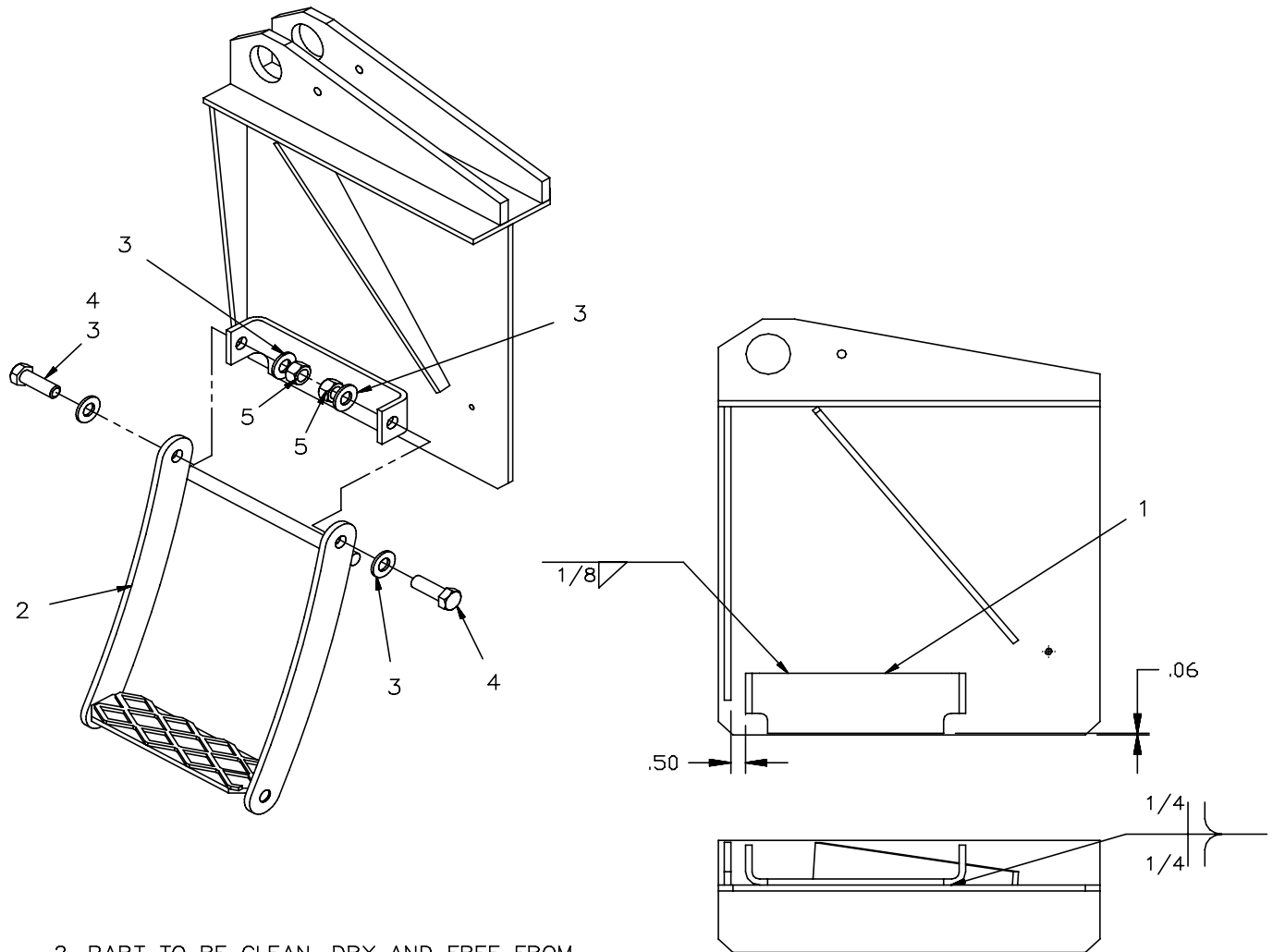
CHAPTER 9

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				
11	891474120	Hose 1" Id X 120 Lg	1	41	104649	Scr – thumb, Type P, 3/8 – 16x1	4
12	215108	Clamp – 13/16 – 1 3/4 Id	6	42	045522	Nipple Close, 1 – 1/2 Galv	1
13	323152	Ball Valve, 3 Way – 1" Npt	1	43	048217	Adapter Hose	1
14	315080	EI – 90 Deg, 1" Hose X 3/4 Mpt	1	44	045573	Clamp Hose	2
15	323090	Flange Weldment	1	–	324724	Bushing – Mp – Fp – 42 – 16	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

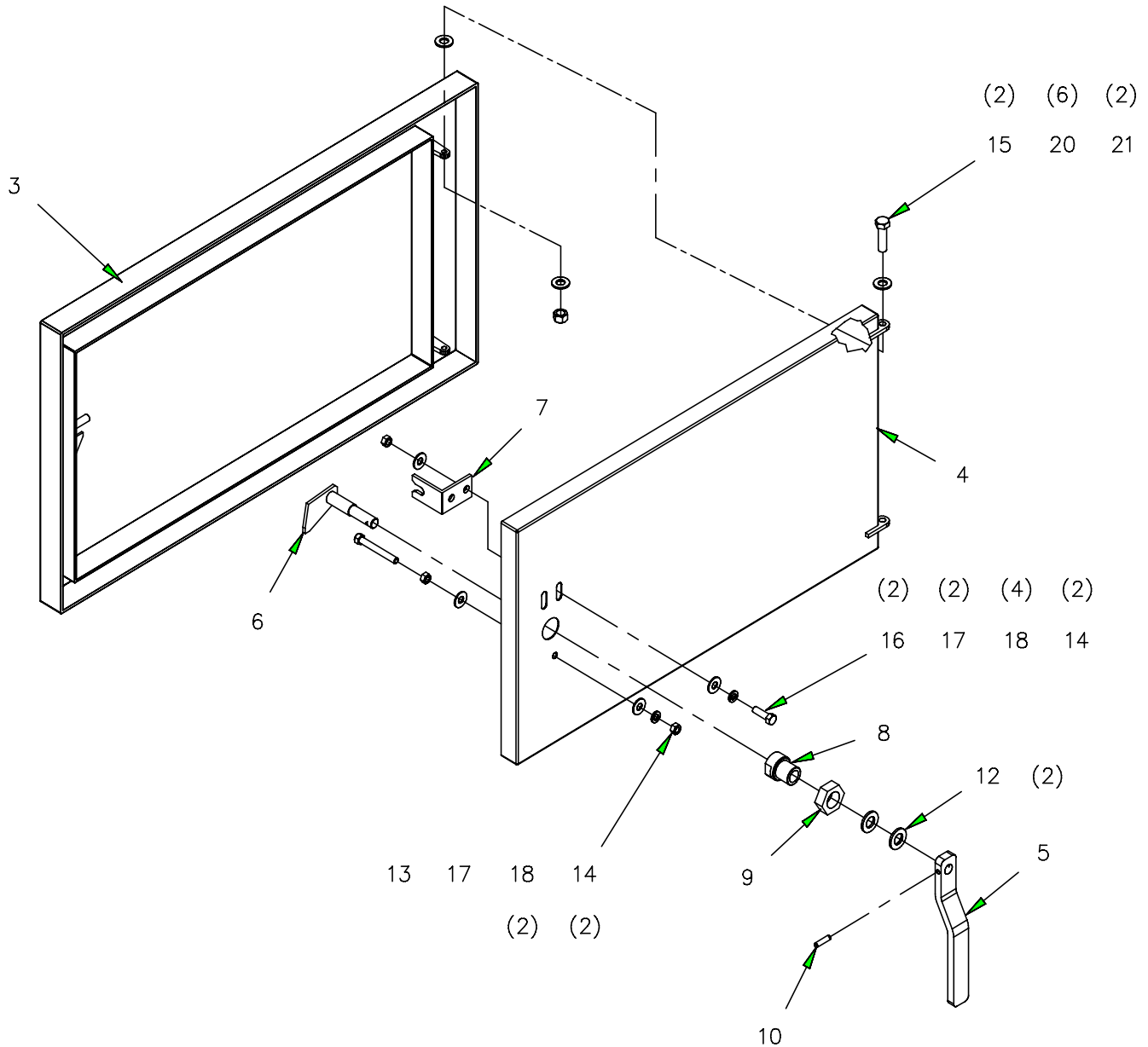




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- 2. USE DOOR SEAL (896308) AS REQUIRED.
- 1. USE LOCTITE (895109) AS REQUIRED ON ALL SCREWS.

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				

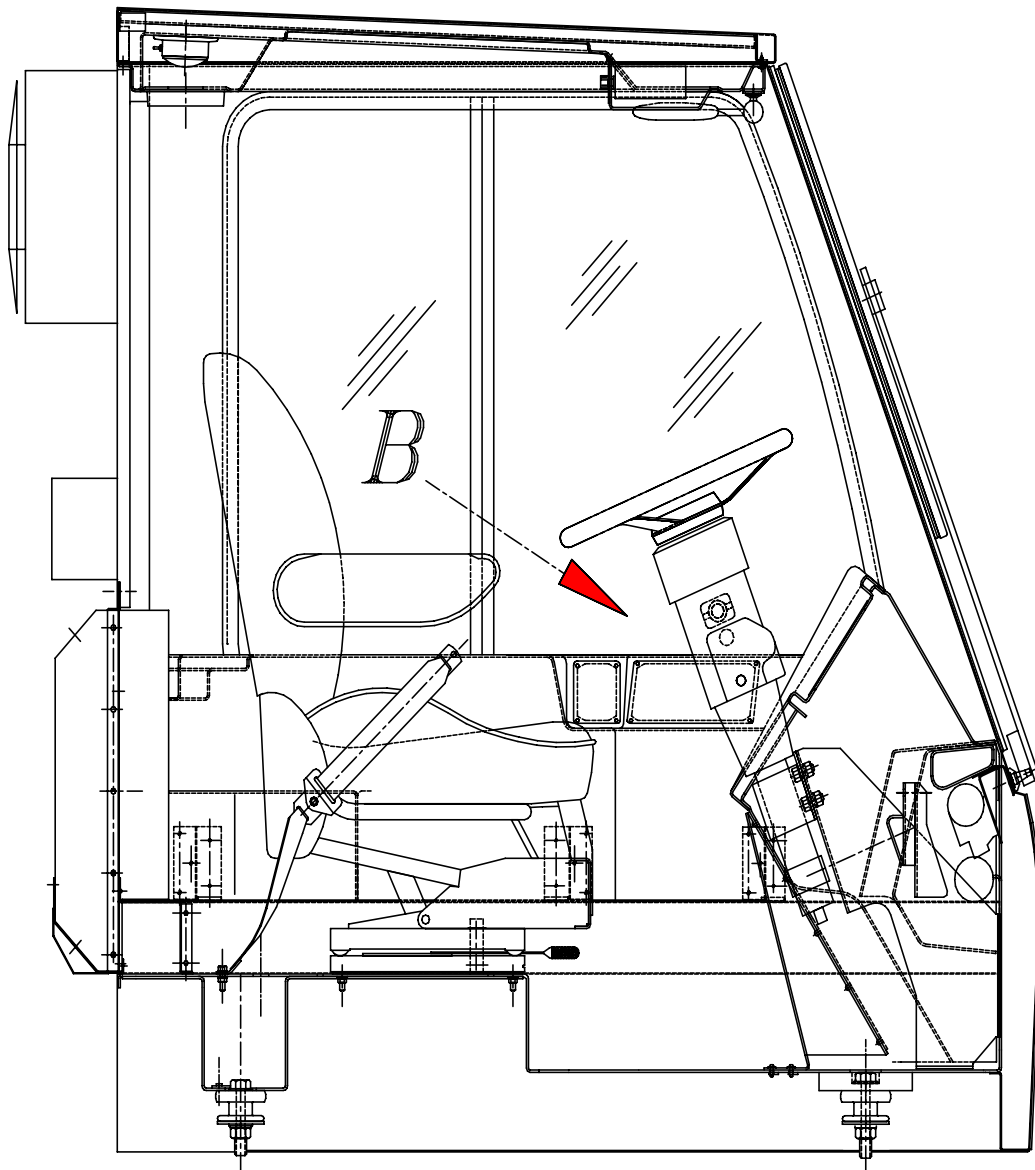


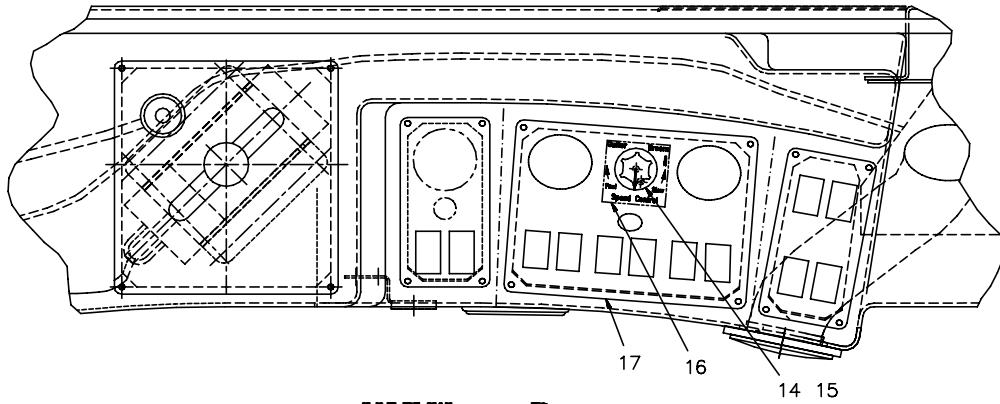


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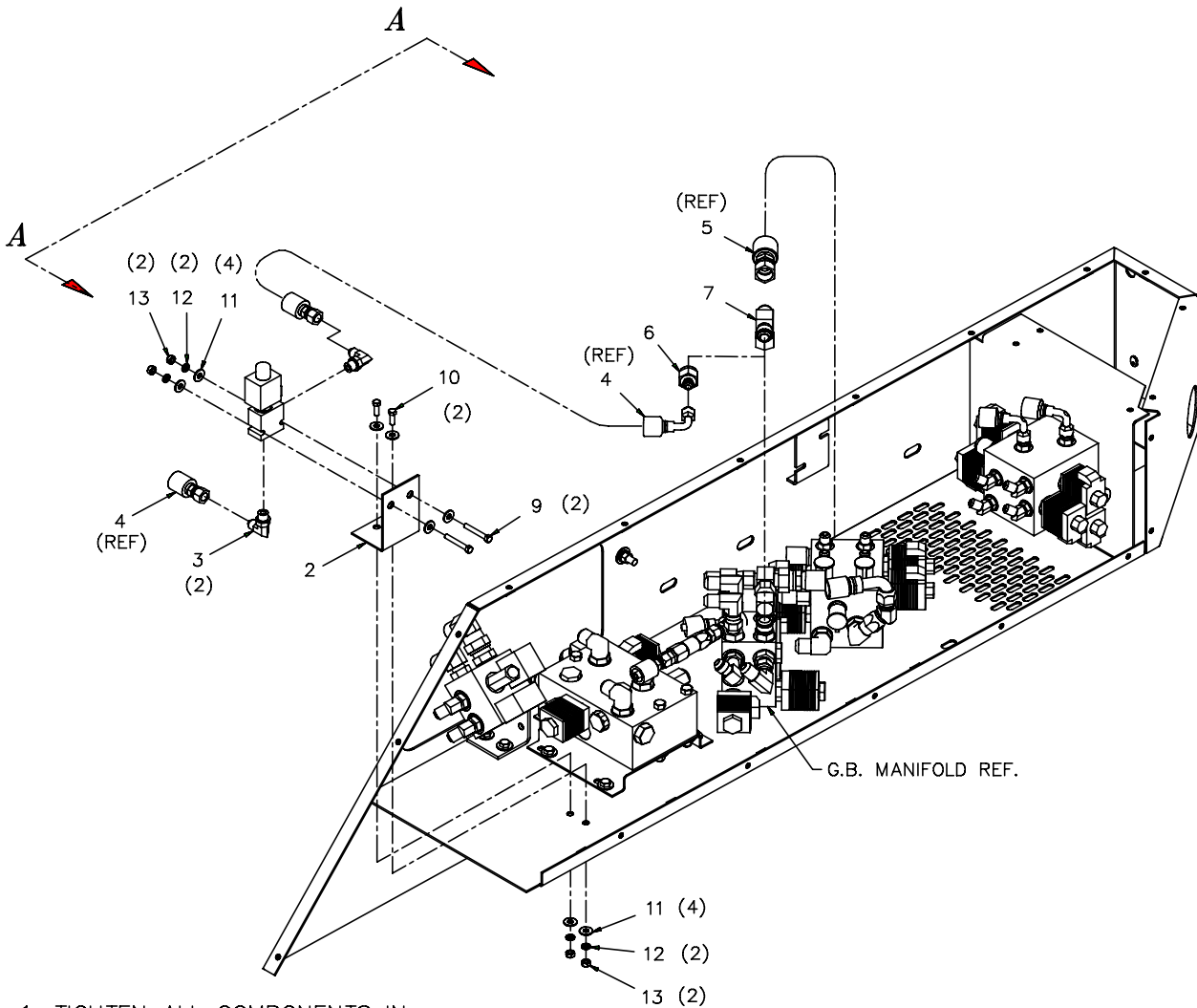


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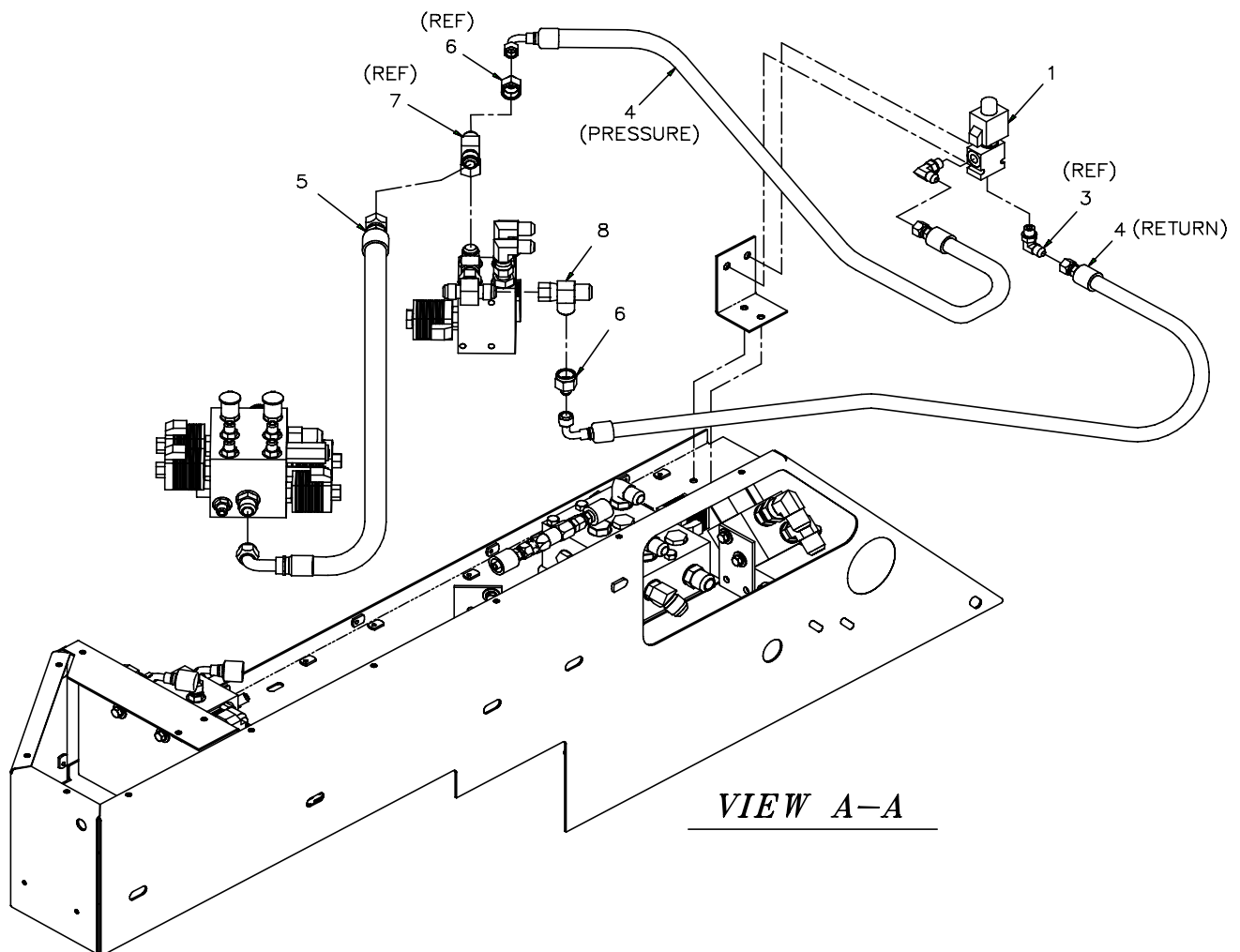
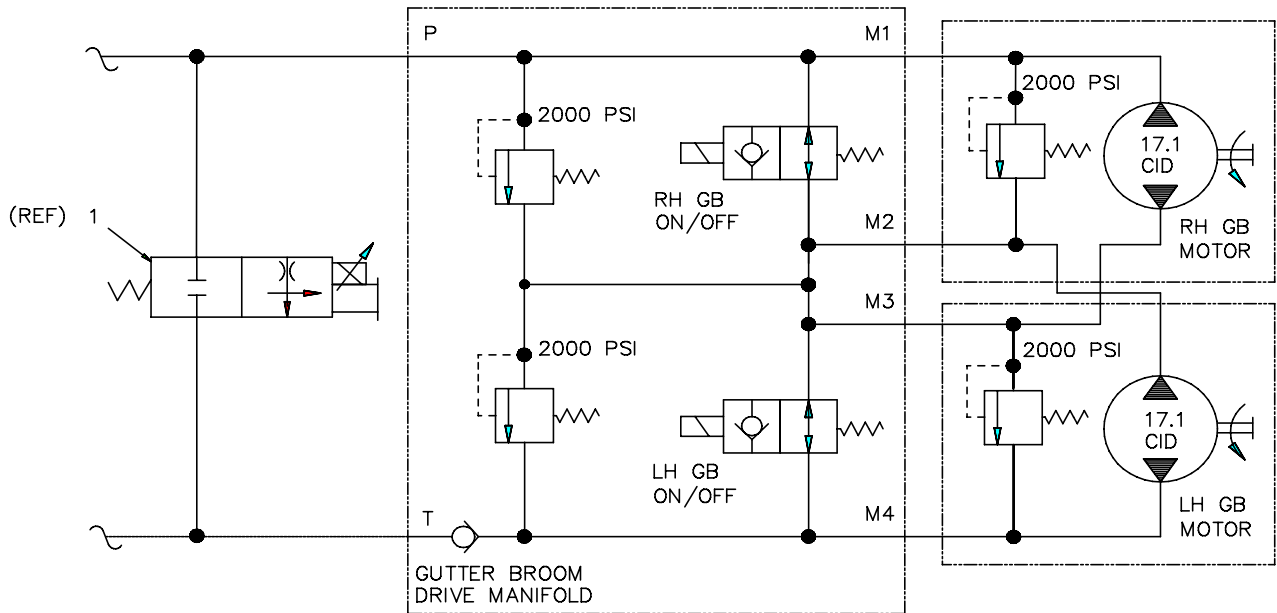
VIEW - B
(GUTTER BROOM SWITCH PANEL)



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				



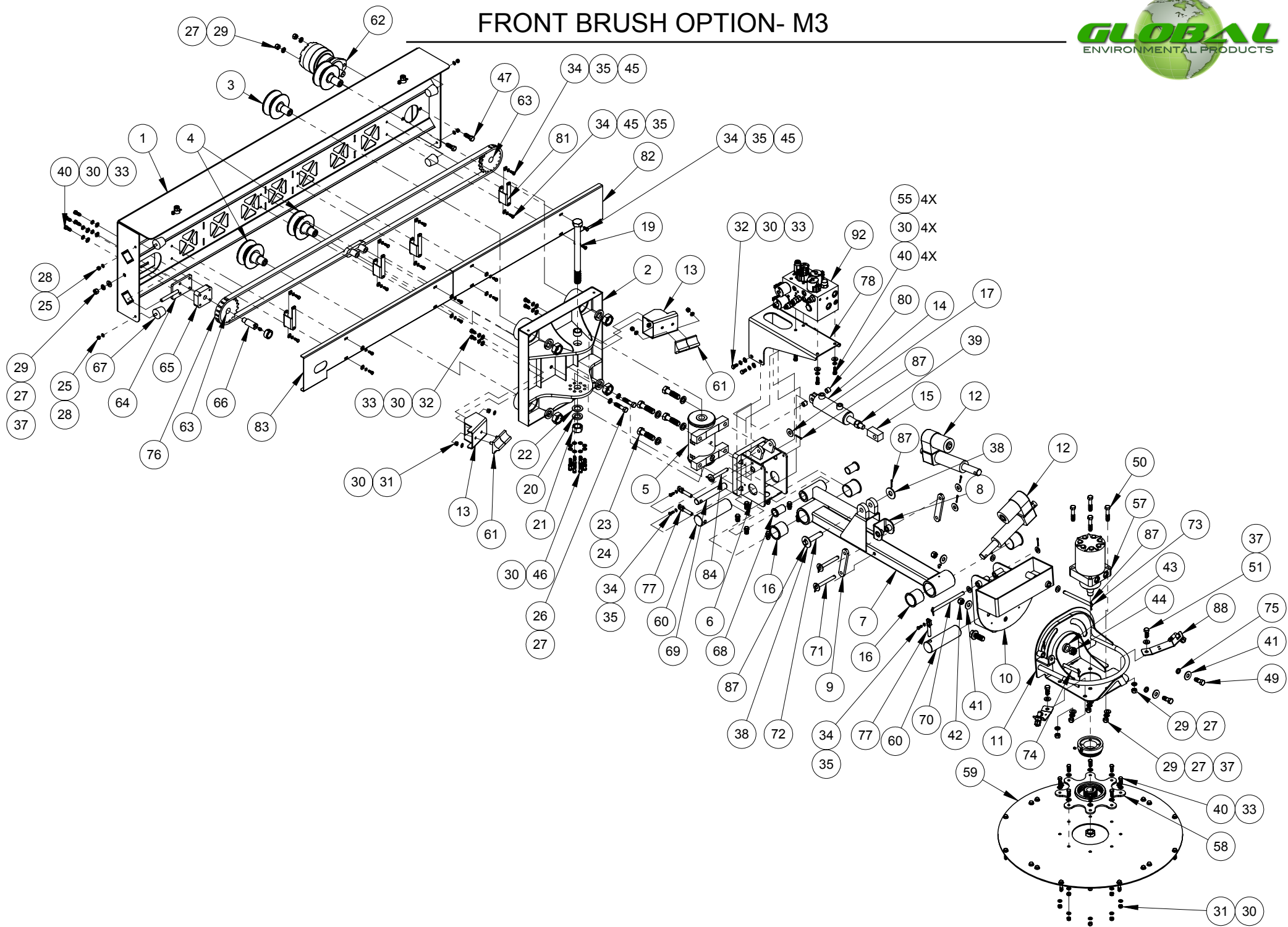


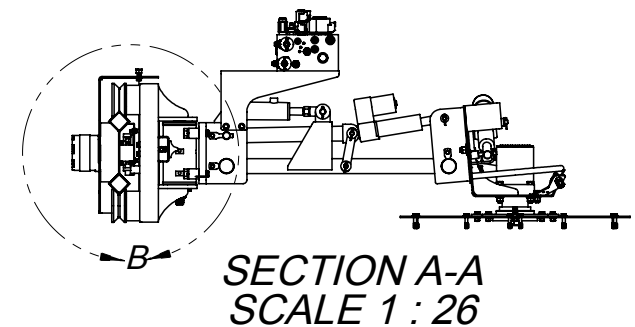
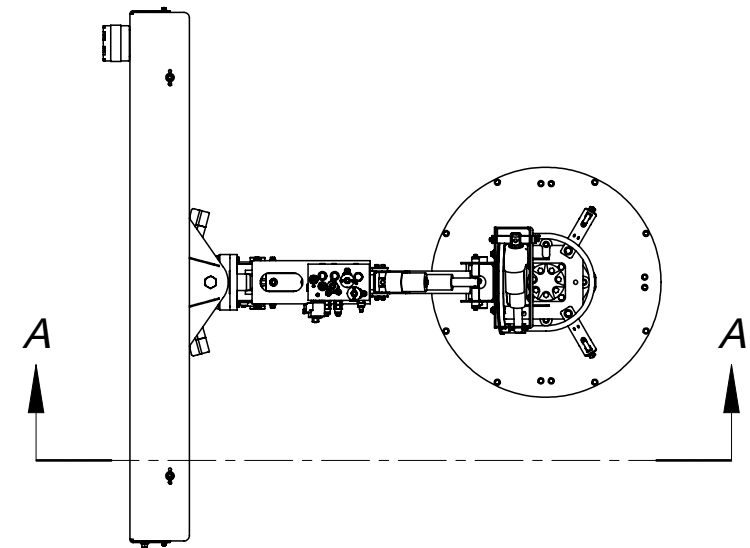
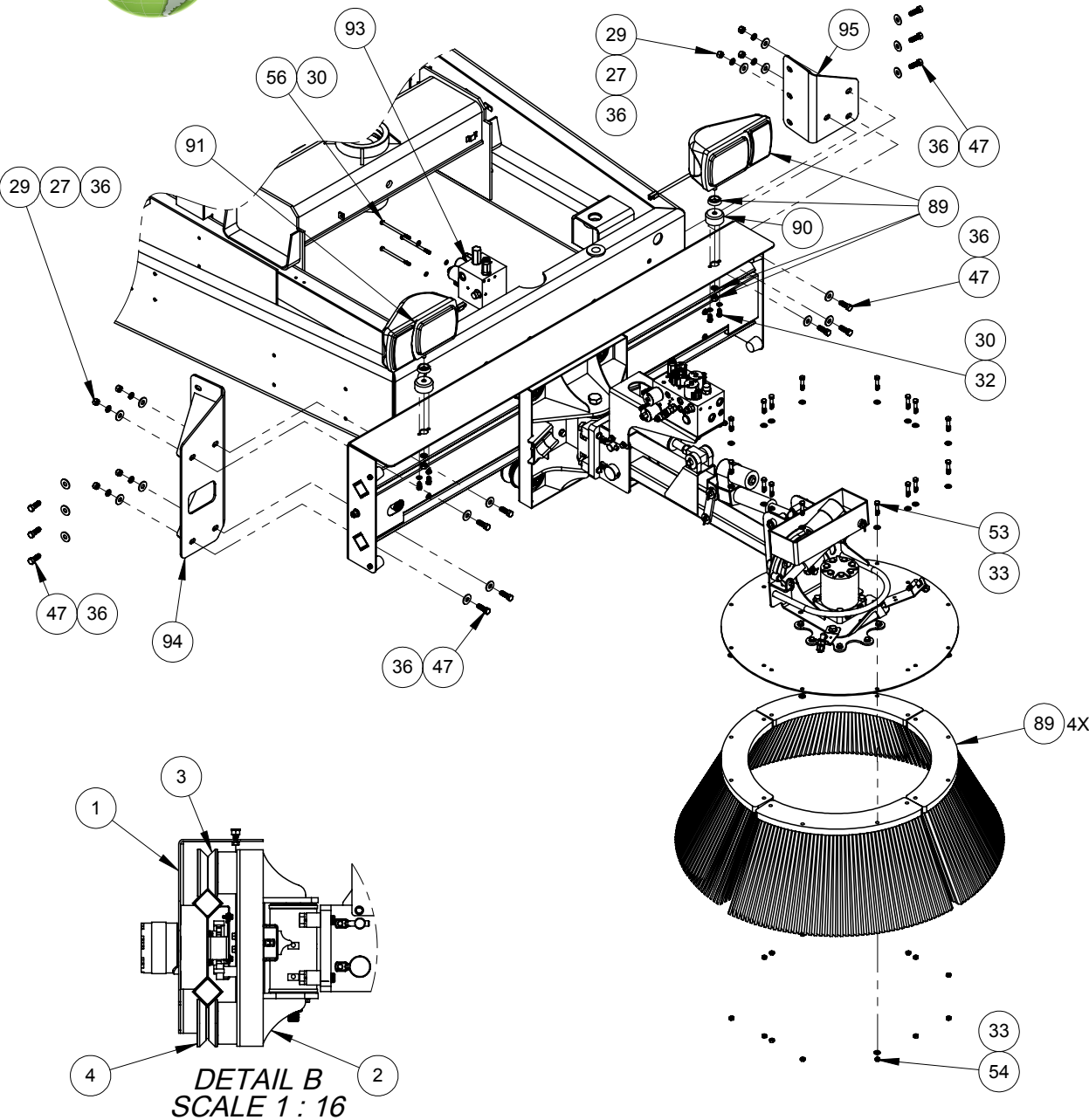
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FRONT BRUSH OPTION- M3





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

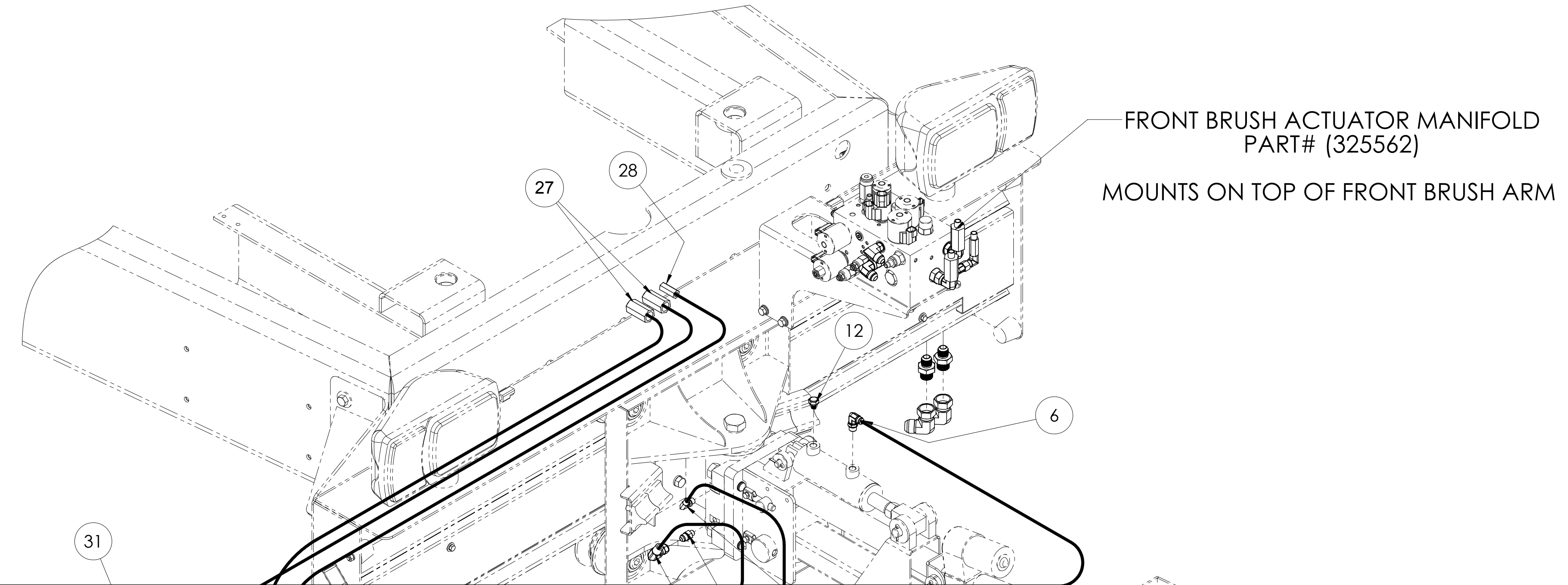
ITEM NO	PART #	DESCRIPTION	QTY.
62	325805	HYD MOTOR, FRONT BRUSH SLIDE	1
63	325499	SPROCKET 60BS-19-1	2
64	325644	IDLER GEAR ADJ. WLDMT	1
65	325536	IDLER GEAR PIN BASE	1
66	325535	IDLER GEAR SHAFT	1
67	325548	PLATE, ACTUATOR BUMPER SHIM	4
68	325589	BRONZE BUSHING, FLANGED 1 IN	2
69	325585	PIN, CONNECTOR 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



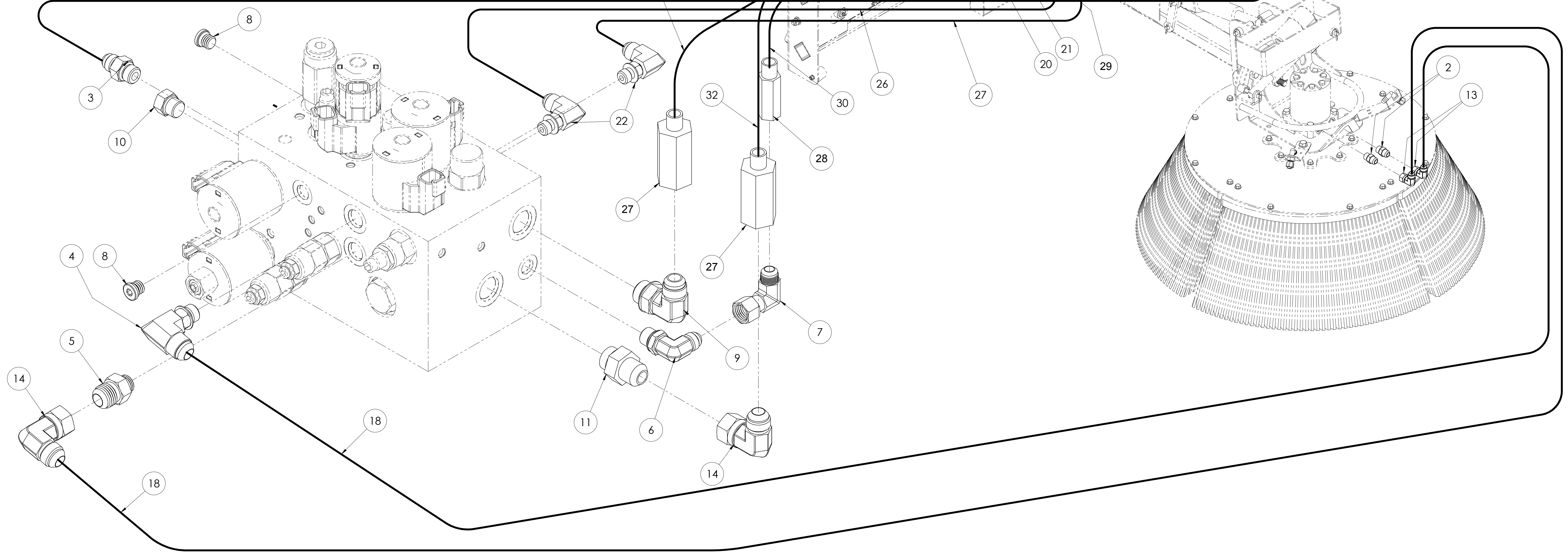
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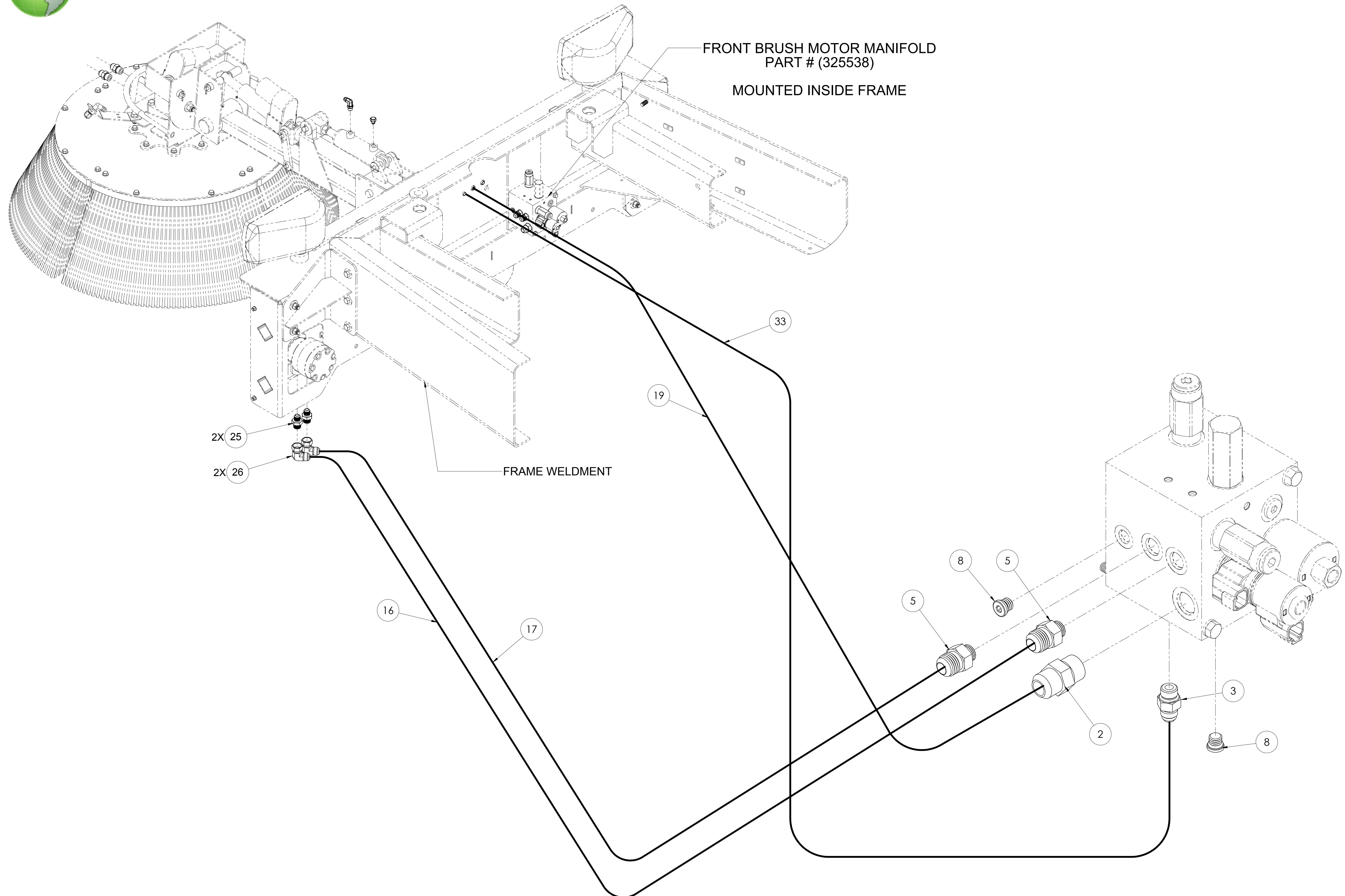
FRONT BRUSH HYDRAULICS

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



FRONT BRUSH ACTUATOR MANIFOLD
PART# (325562)
MOUNTS ON TOP OF FRONT BRUSH ARM

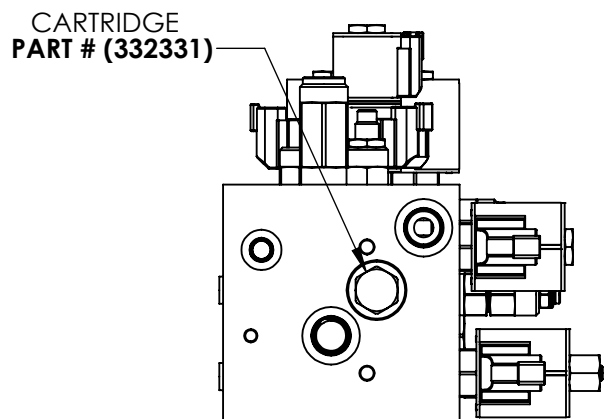
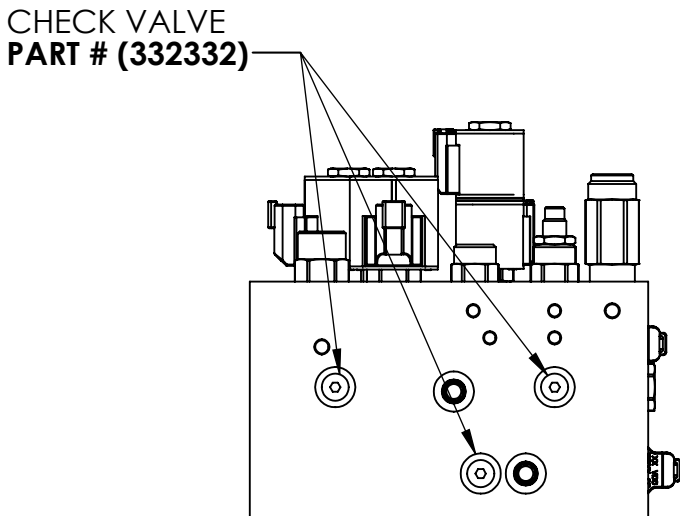
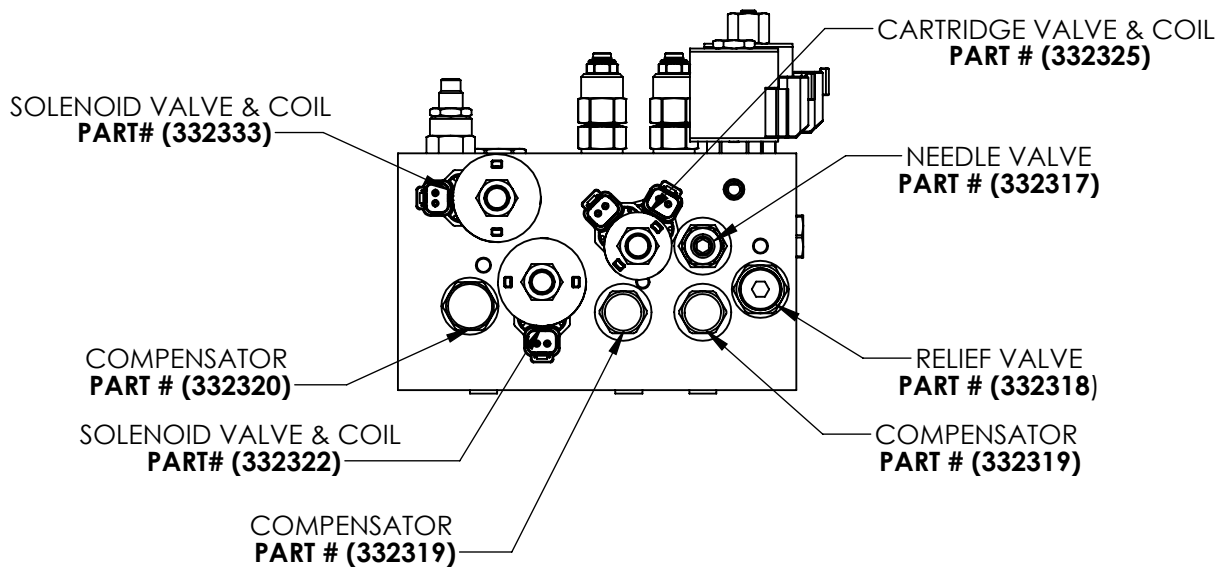
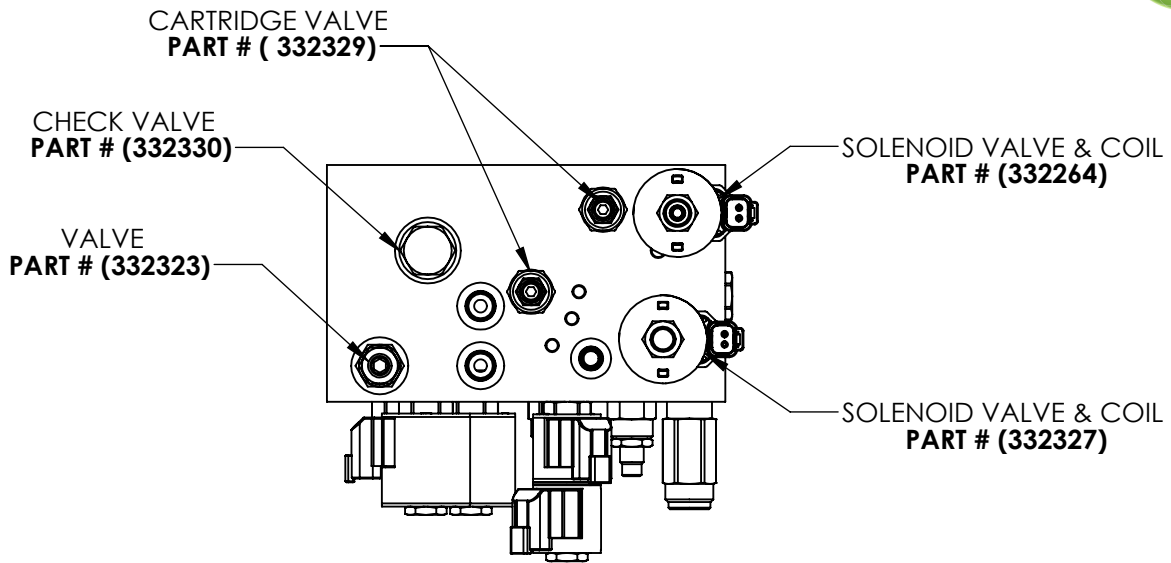


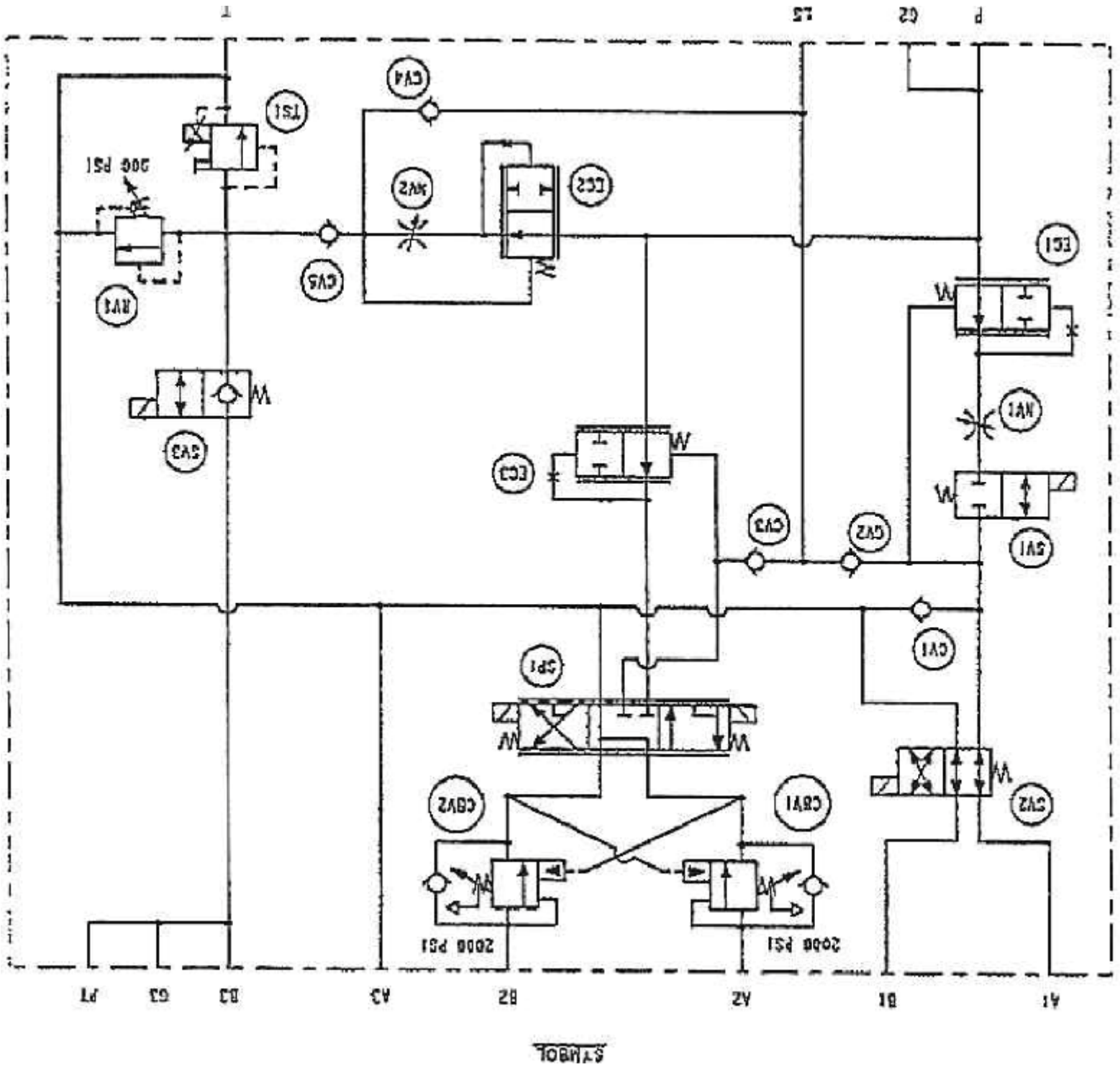




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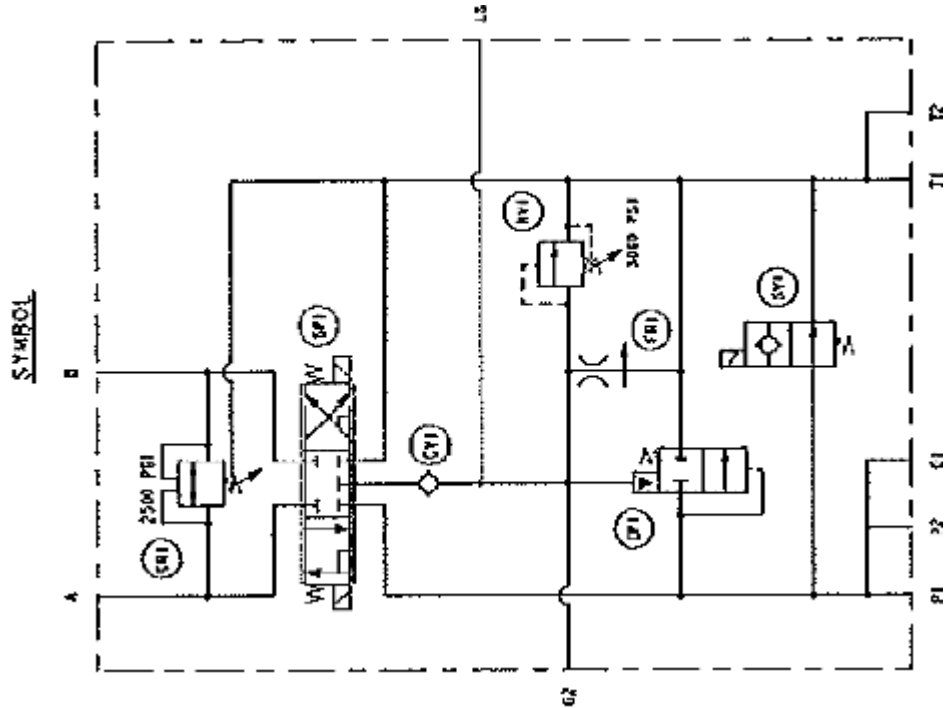
MANIFOLD, FRONT BRUSH ACTUATOR





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MANIFOLD-FRONT BRUSH MOTOR PART #325538



RELIEF VALVE
PART #(332335)

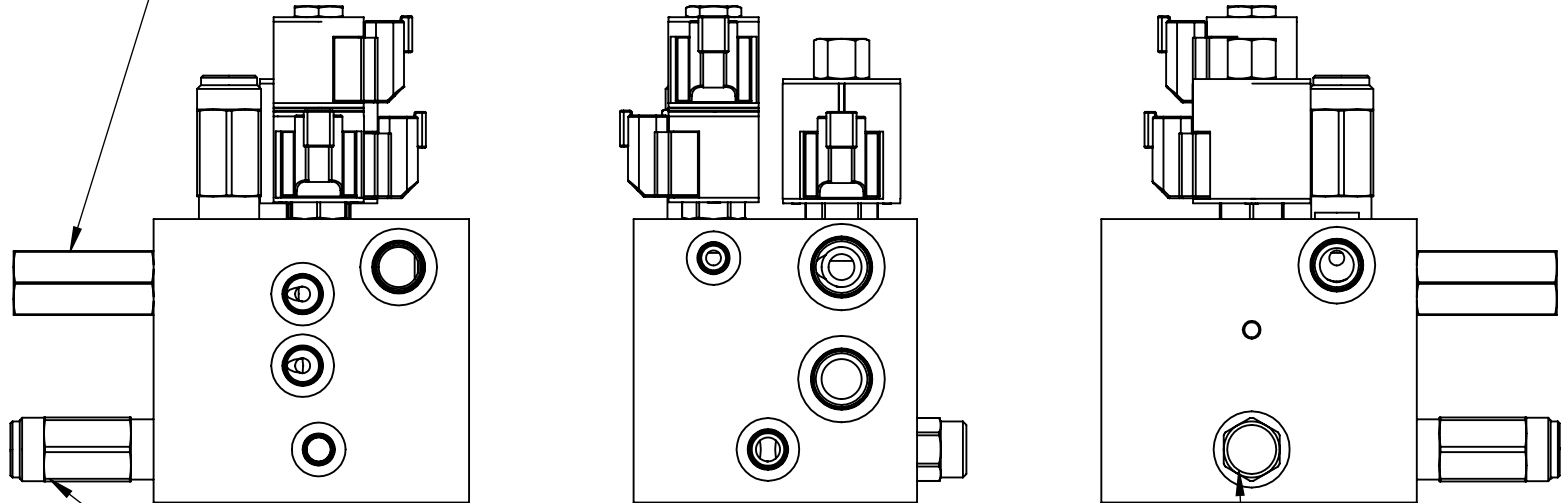
SOLENOID VALVE & COIL
PART# 332406

SOLENOID VALVE & COIL
PART# (332336)

CARTRIDGE
PART# (332338)

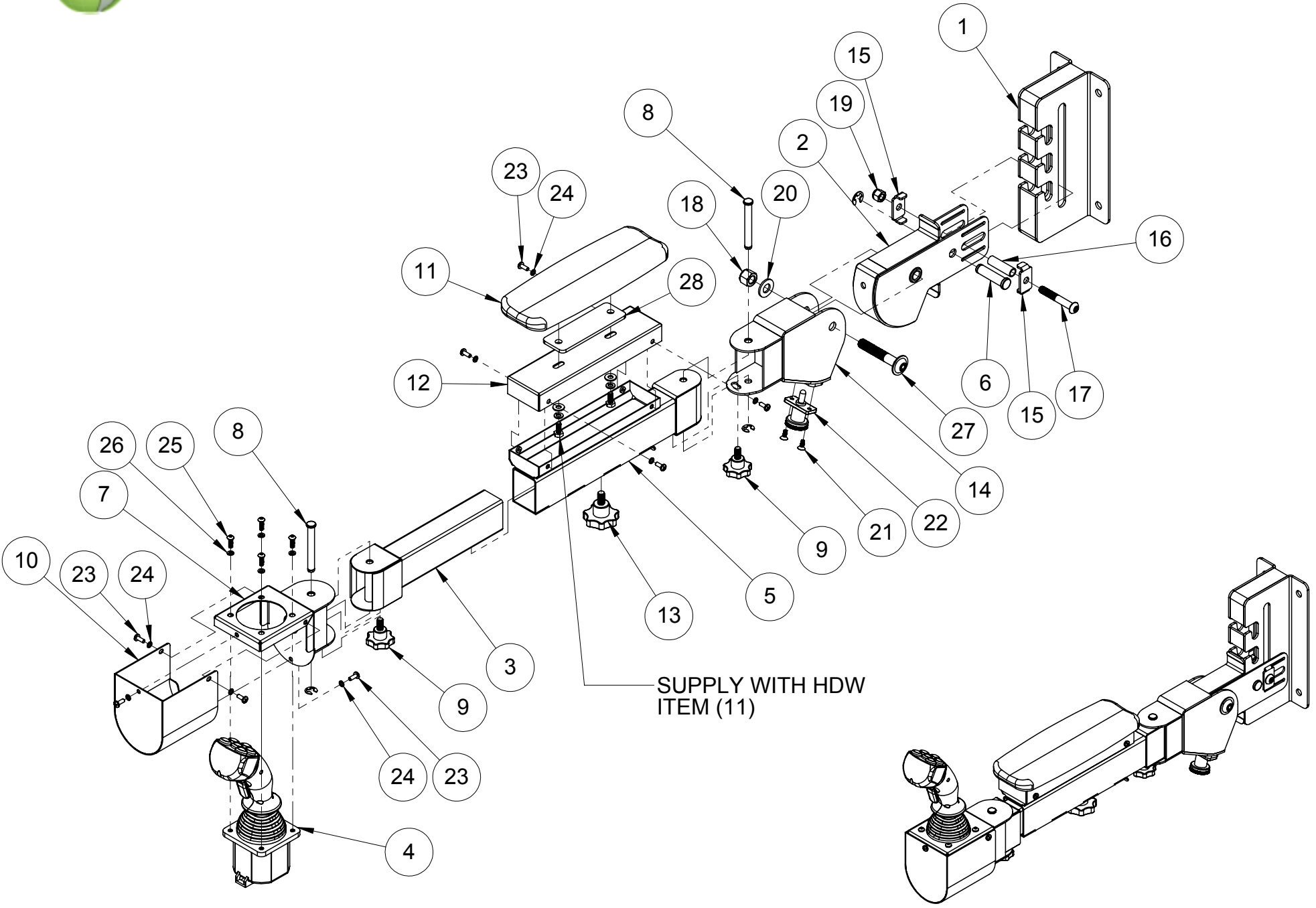
RELIEF VALVE
PART# (332339)

FLOW REGULATOR
PART# (332340)



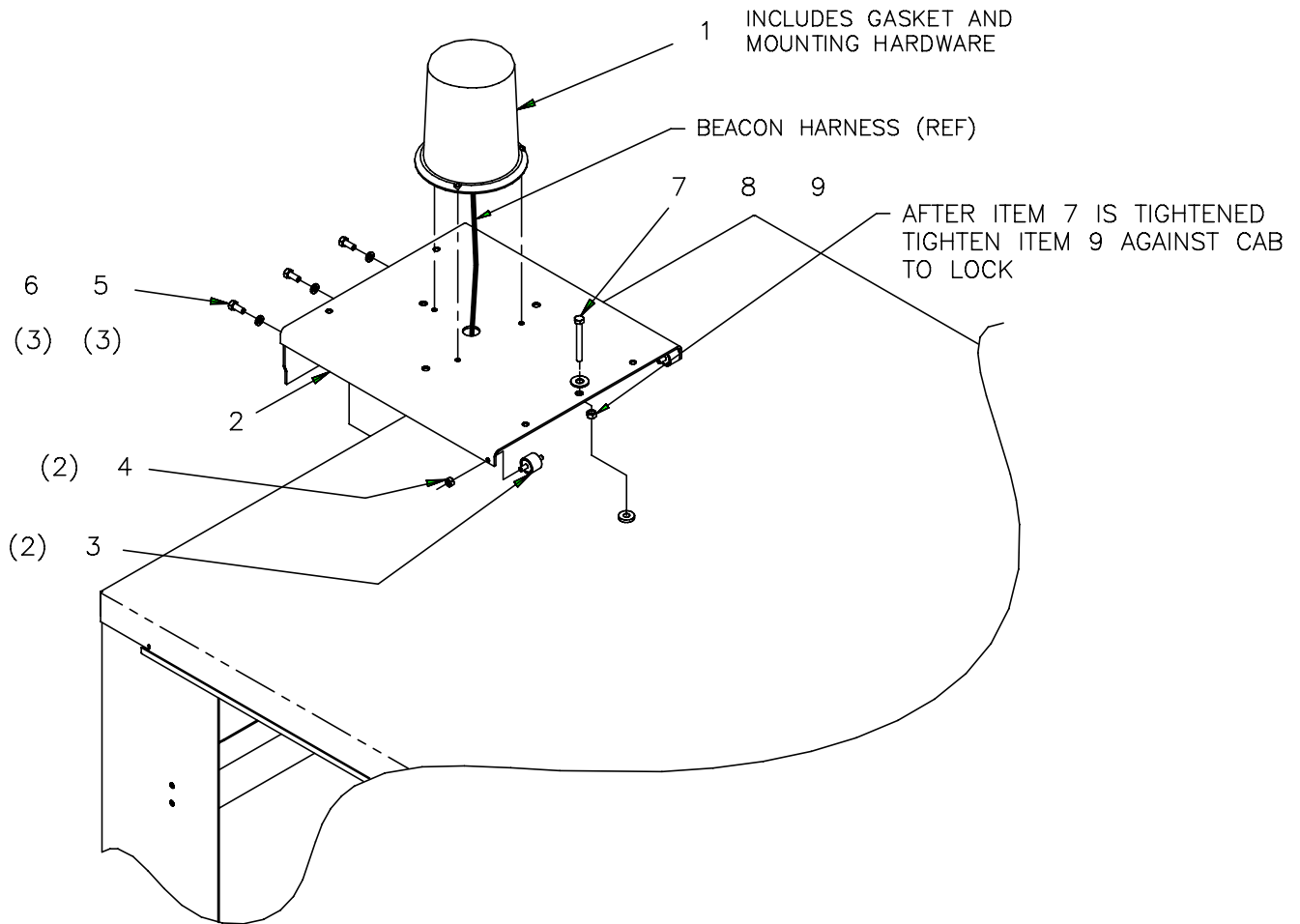


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ITEM NO.	PART NUMBER	DESCRIPTION	QTY
REF	331973	ARM-JOYSTICK, INSTL.	REV 1
1	328935	WLDMT, ARMREST MOUNT	1
2	328932	PIVOT WLDMT, HEIGHT ADJUST	1
3	328925	SUPPORT WLDMT, JOYSTICK	1
4	75364	JOYSTICK, CONTROL	1
5	328929	ARM WLDMT, JOYSTICK, ADJUST	1
6	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				





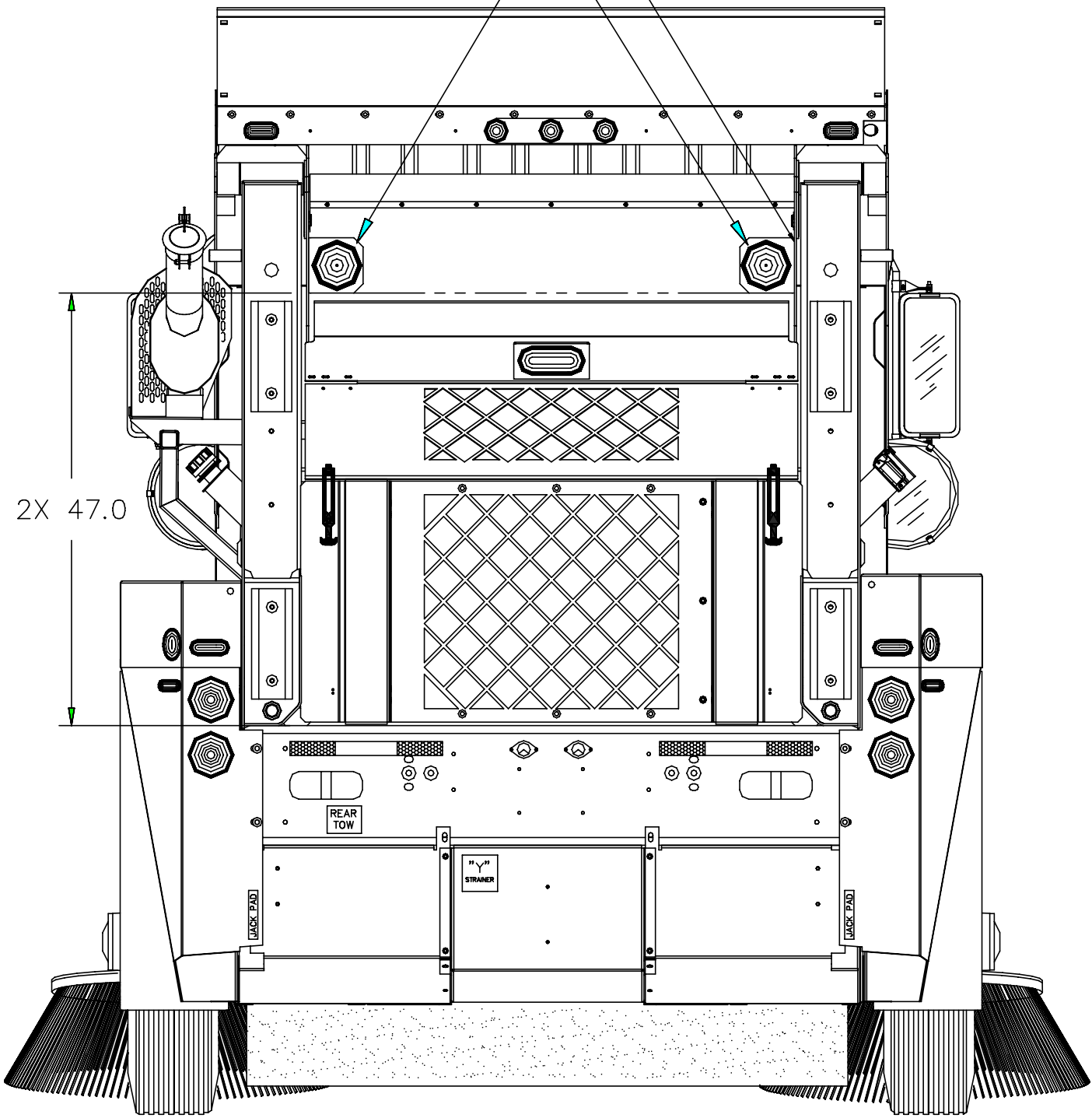
NOTES
NOTES



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(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)

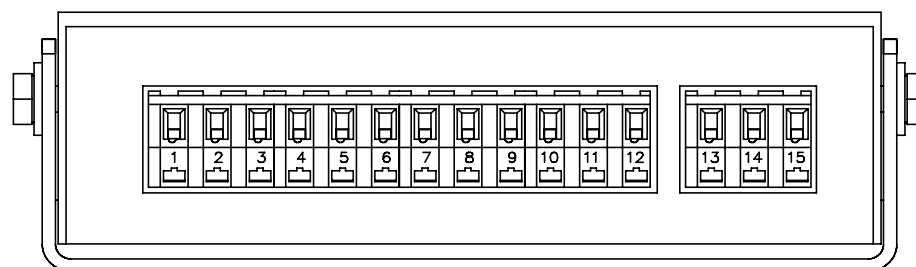
CHAPTER 9



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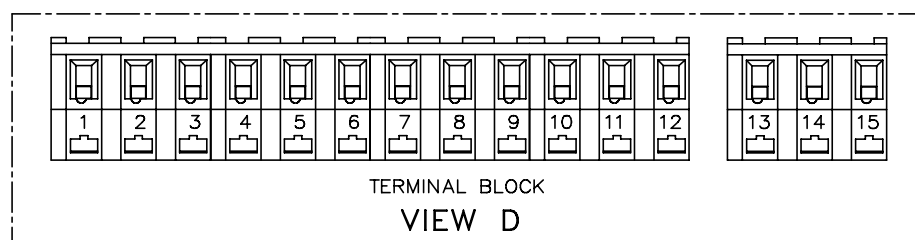


FRONT VIEW OF CONTROL BOX



REAR VIEW OF CONTROL BOX

SEE NOTE 8

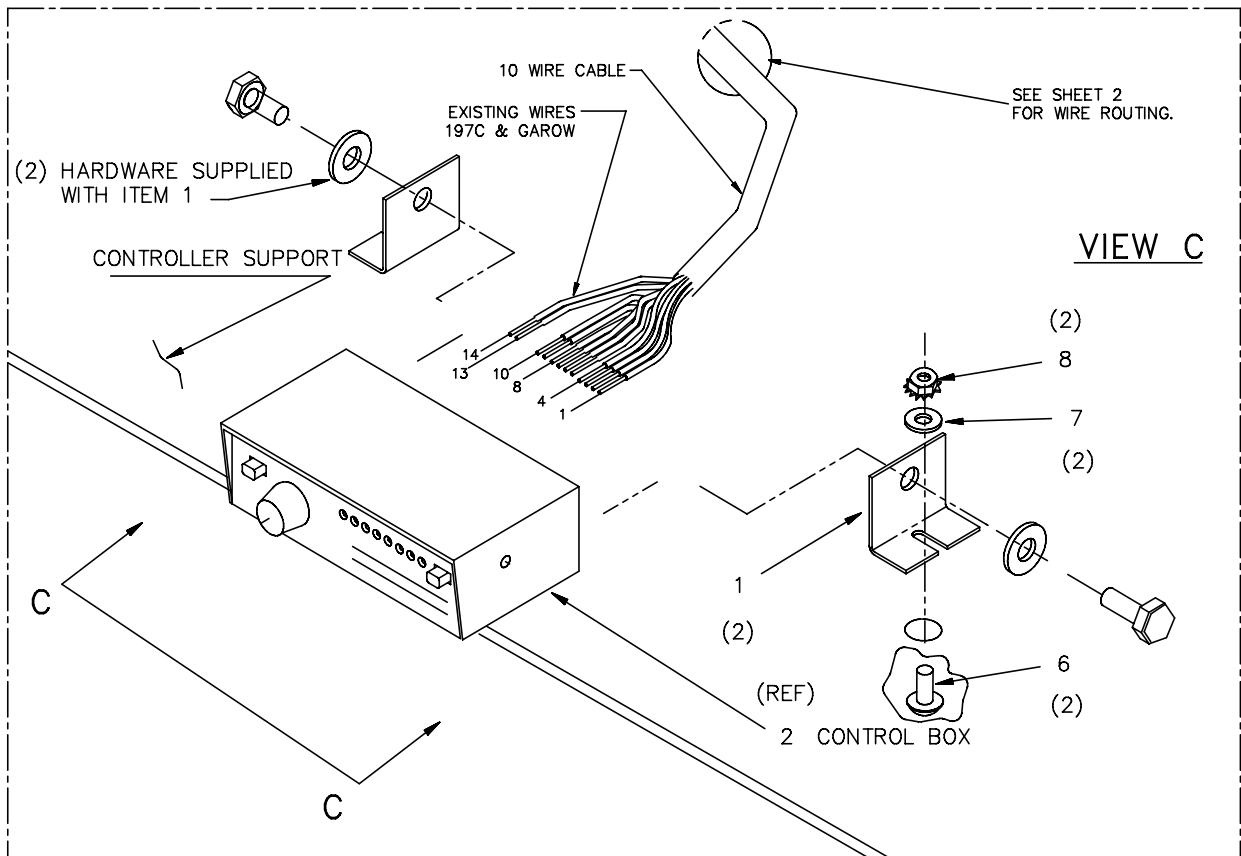
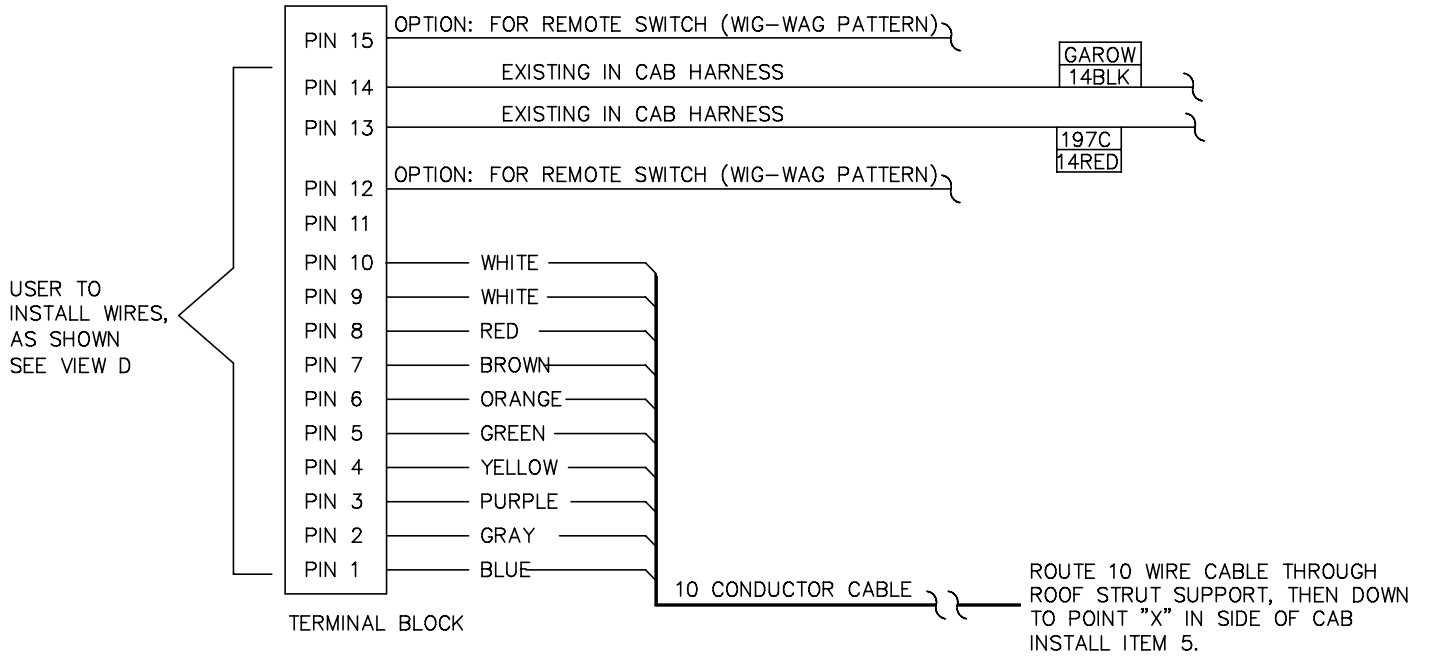


TERMINAL BLOCK
VIEW D

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:

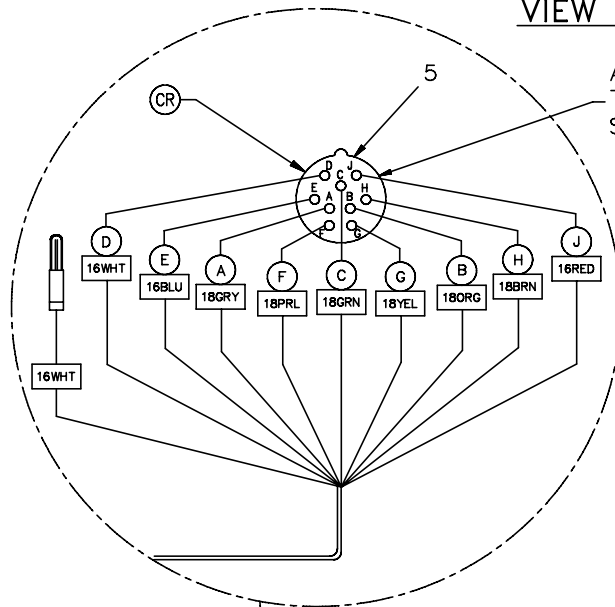
CHAPTER 9



Arrow Stick Installation (Halogen)

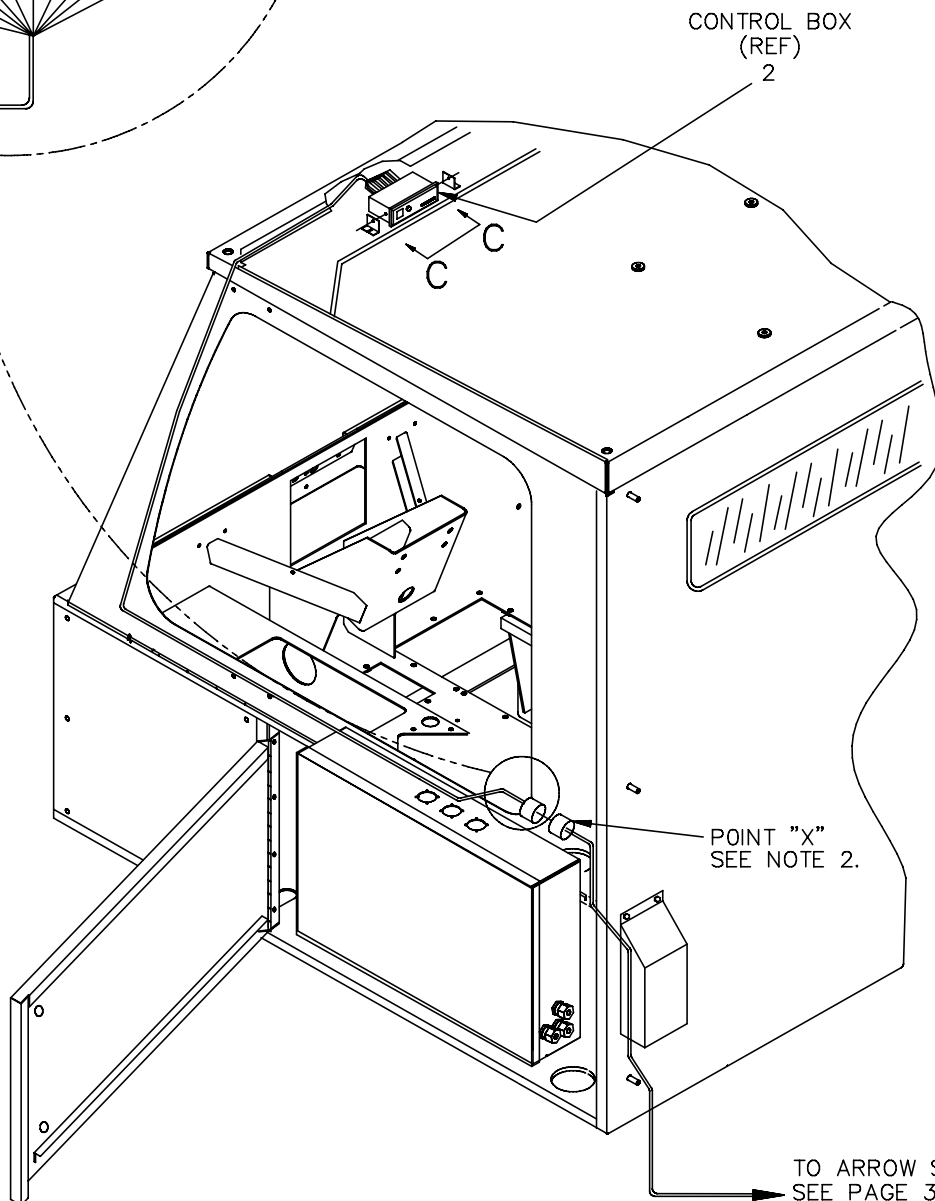


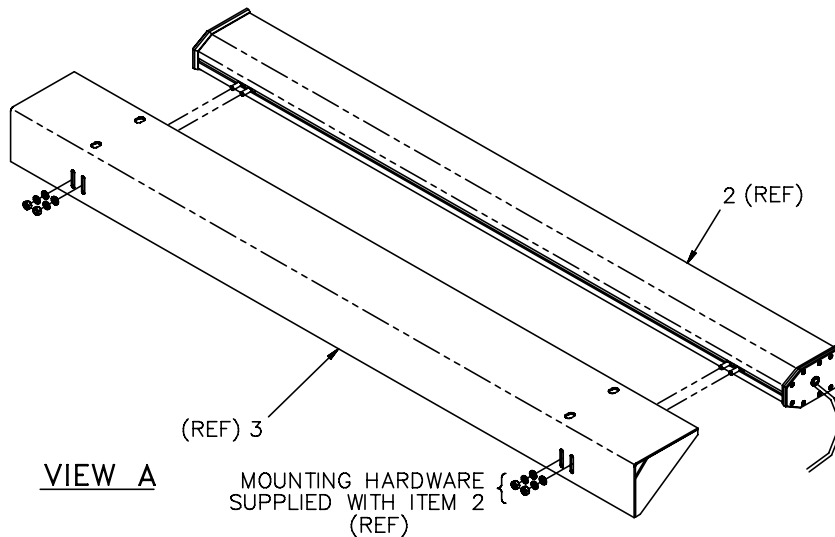
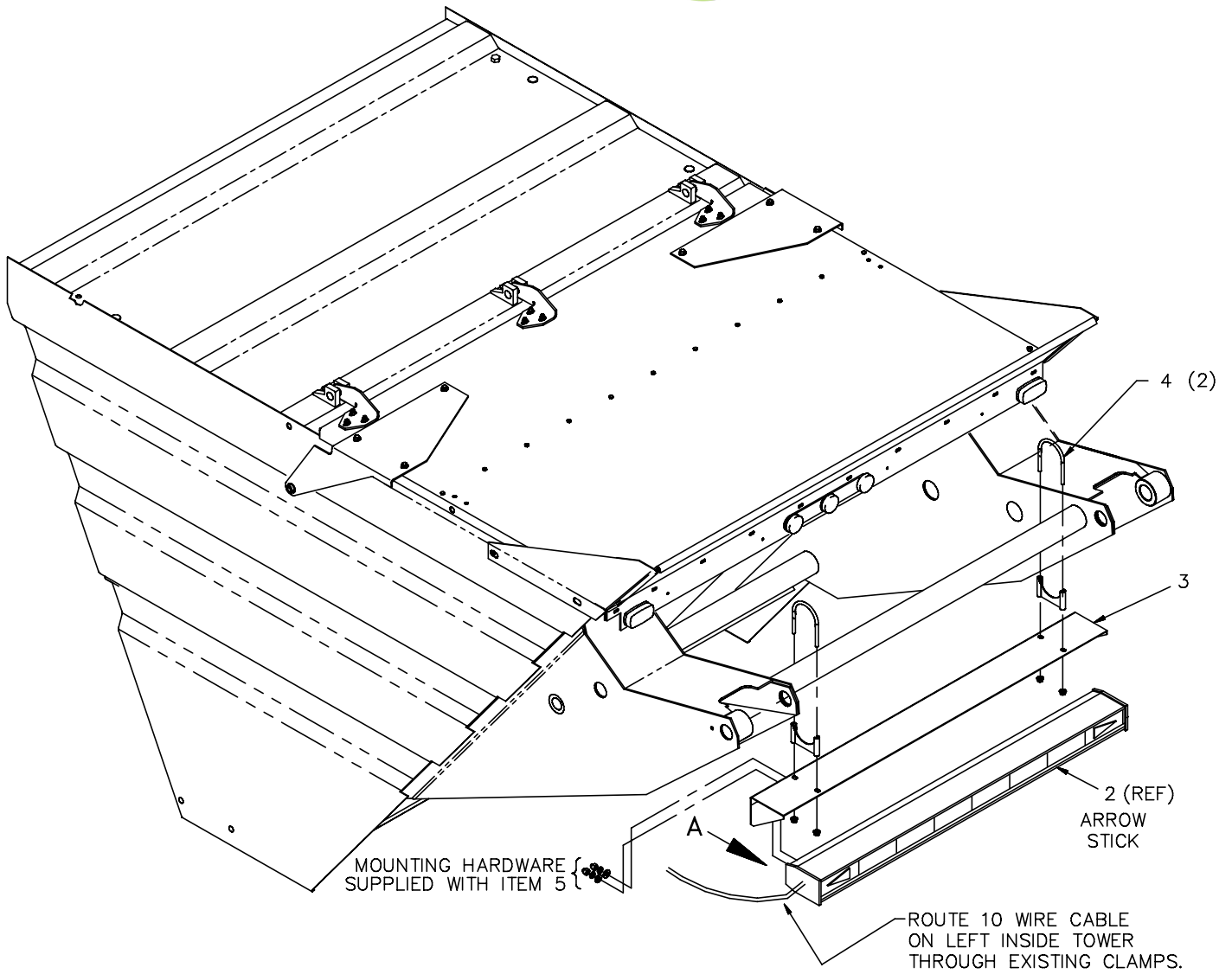
VIEW B

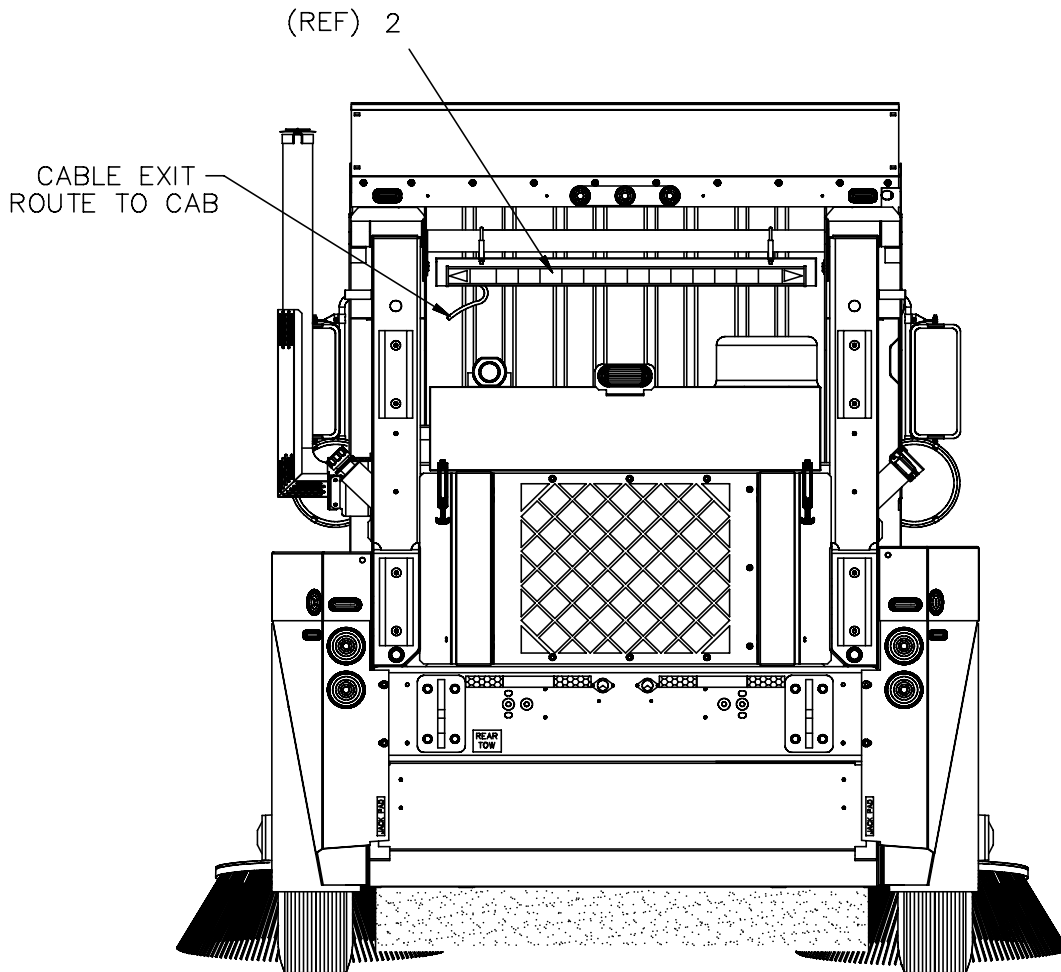
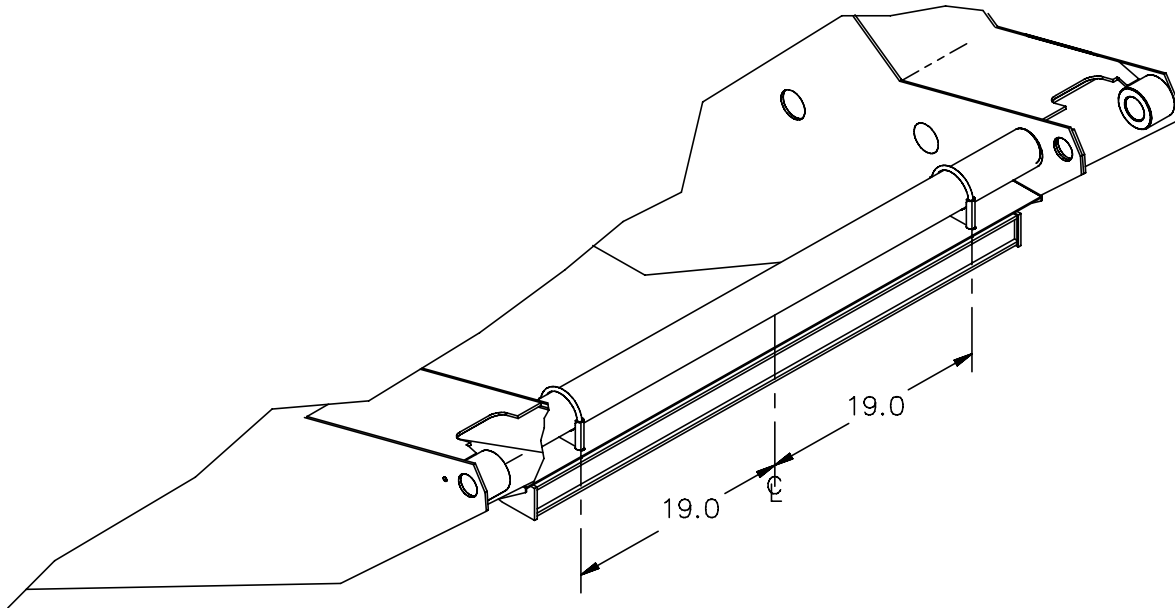


AFTER INSERTING WIRES INTO ITEM 5 CONNECT TO MATING PLUG ITEM 2 ON ARROW STICK. SEE DRAWING (322549)

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









Arrow Stick Installation (Halogen)

CHAPTER 9

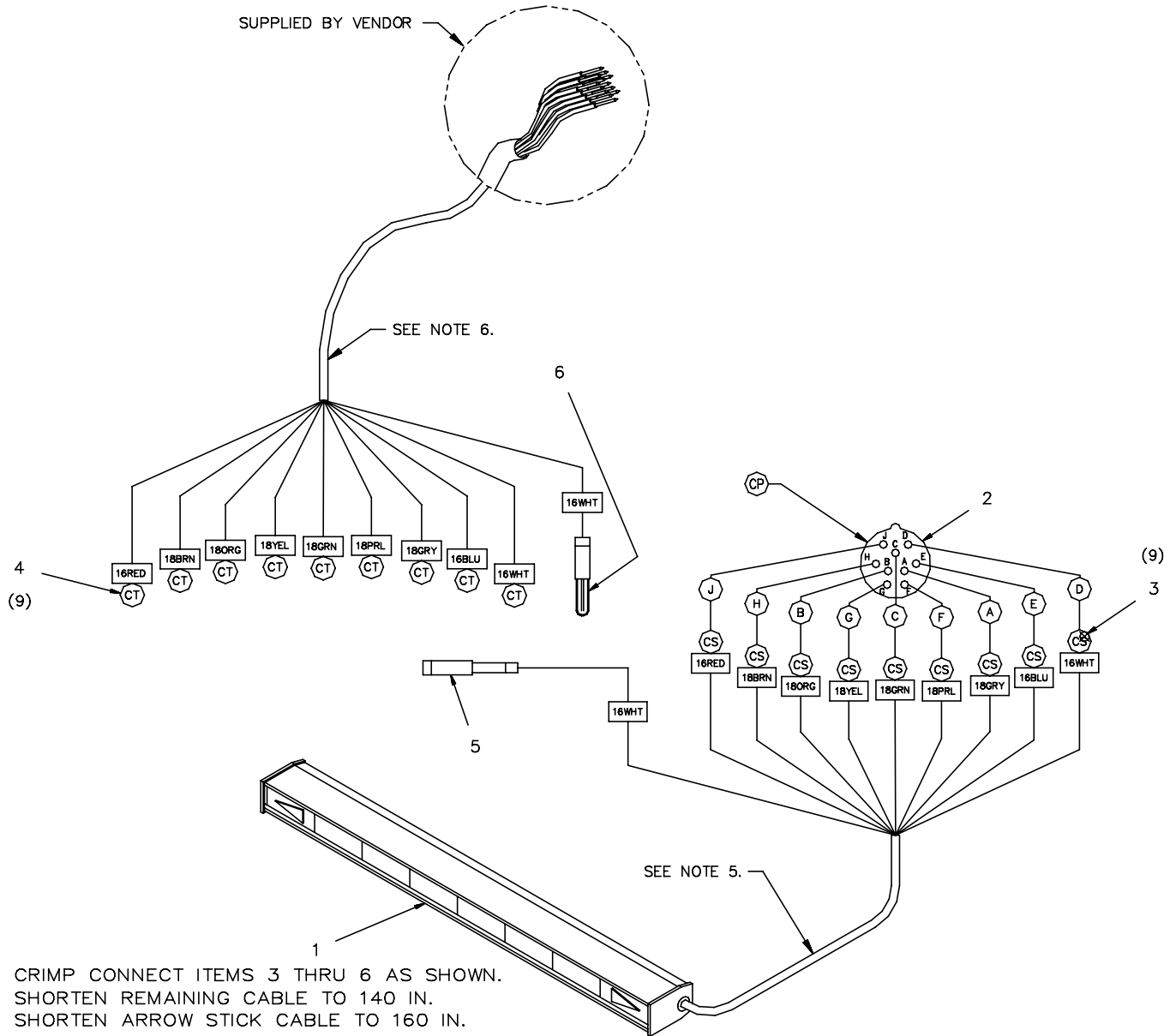
Item	Pt No.	Description	Qty
-	325206	Arrowstick Instl (Halogen)	B Ref
1	325168	Bracket, Mounting – Controller	2
2	322549	Arrow Stick– Halogen, Rework	1
3	320809	L Bracket Support Wldmt	1
4	312504	Clamp, Exhaust, 3” Dia	2
5	307901	Plug 9–way (Cr)	1
6	900114	Scr–truss Hd,Slit,Pl,1/4–20x3/4	2
7	609606	Washer 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
NOTES

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.

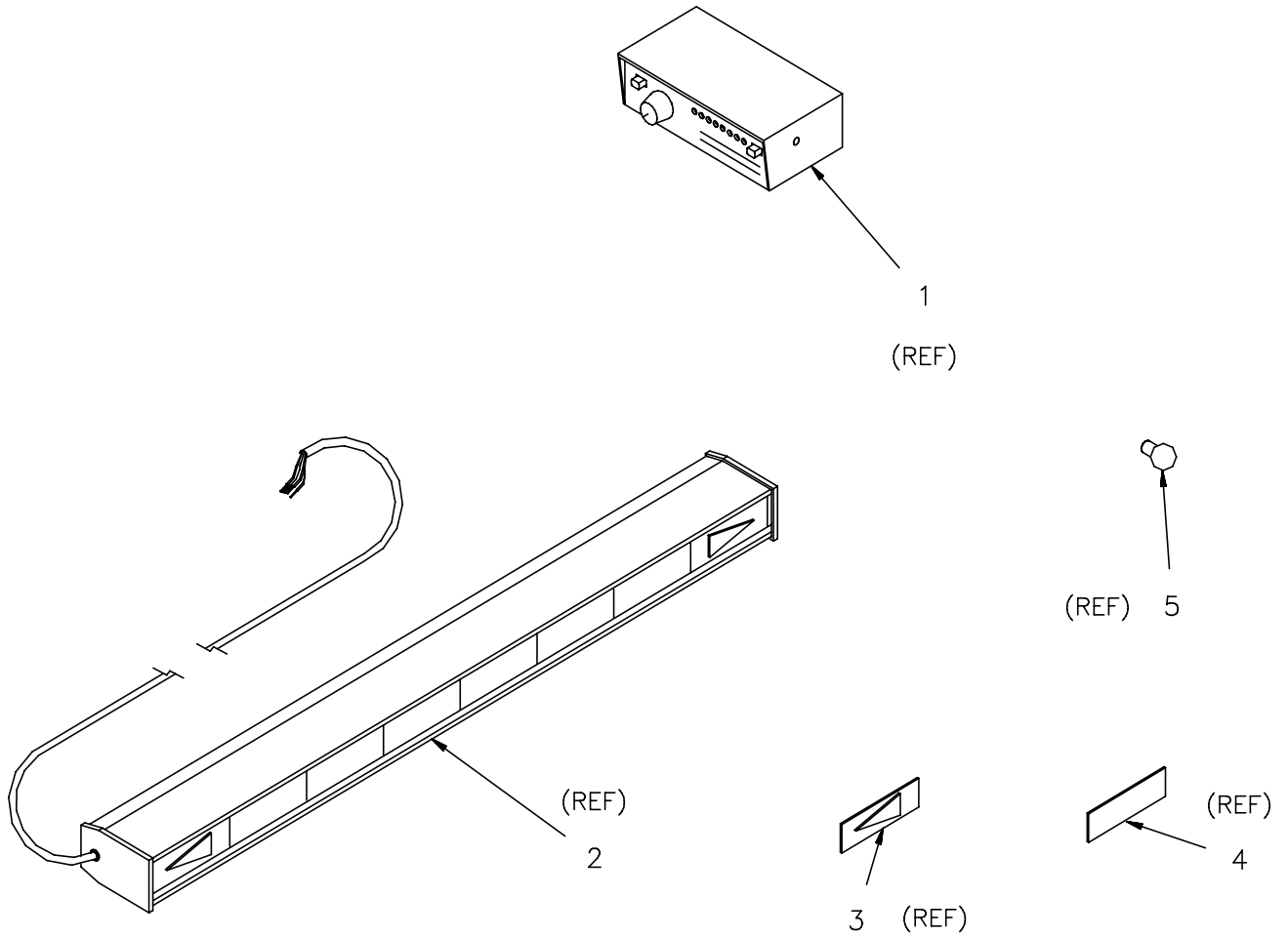
NOTES,

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

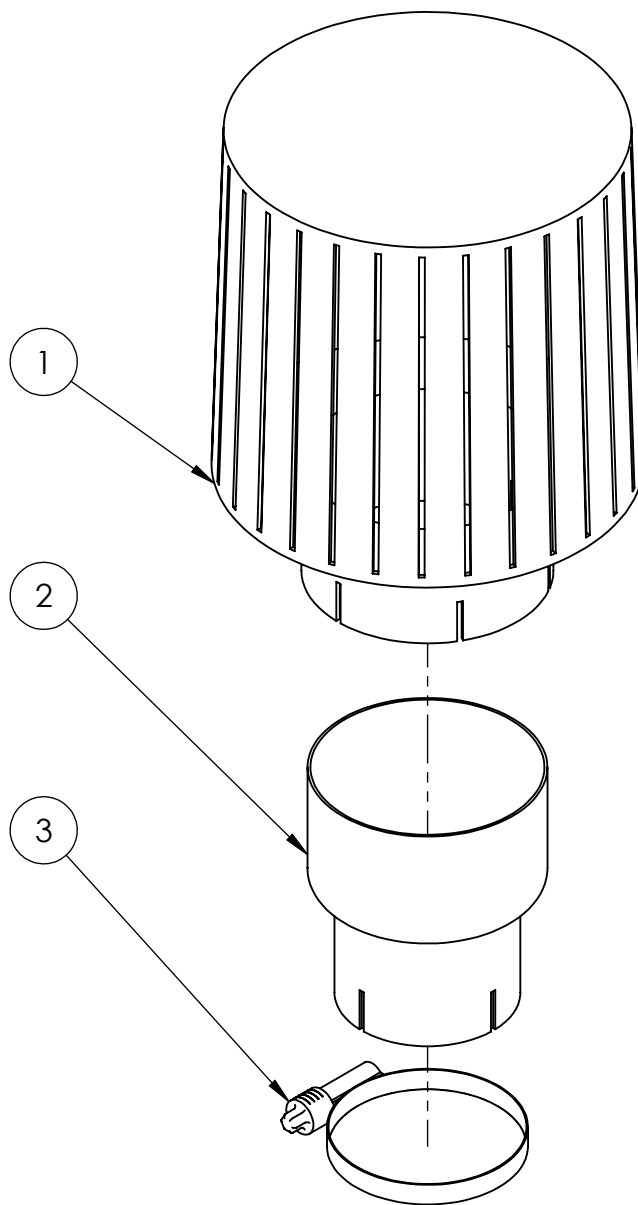


Item	Pt No.	Description	Qty	Item	Pt No.	Description	Qty
-	322544	Arrow Stick 3035H- Halogen	B Ref				
1	381513	Control Box	0				
2	381515	Light Bar- Halogen	0				
3	381518	Lens- Amber, Arrow	0				
4	381517	Lens- Amber, Solid	0				
5	381516	Flash Tube	0				



NOTES

NOTES

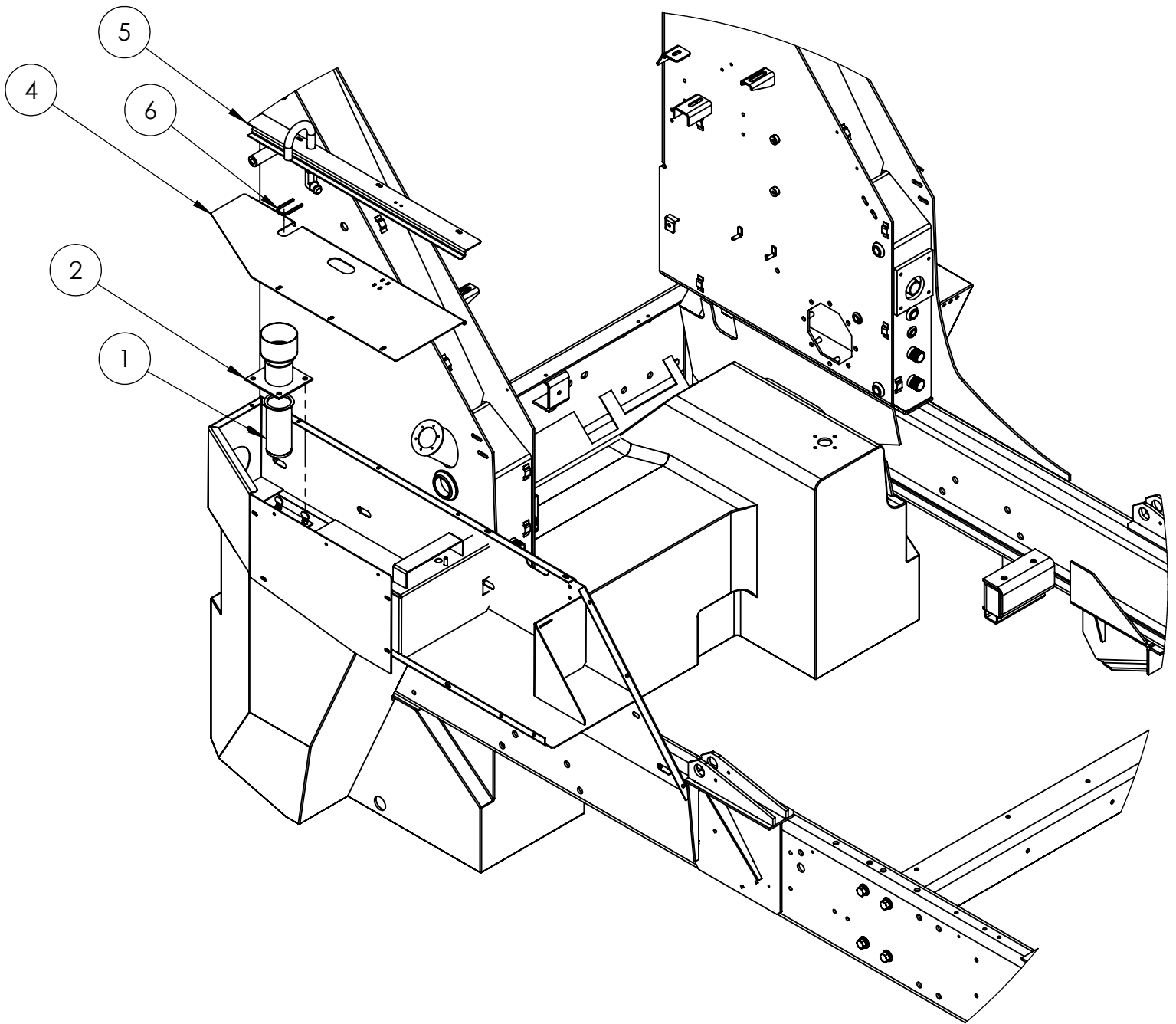


NOTE: Ø5" CLAMP INCLUDED WITH PRECLEANER (NOT SHOWN)

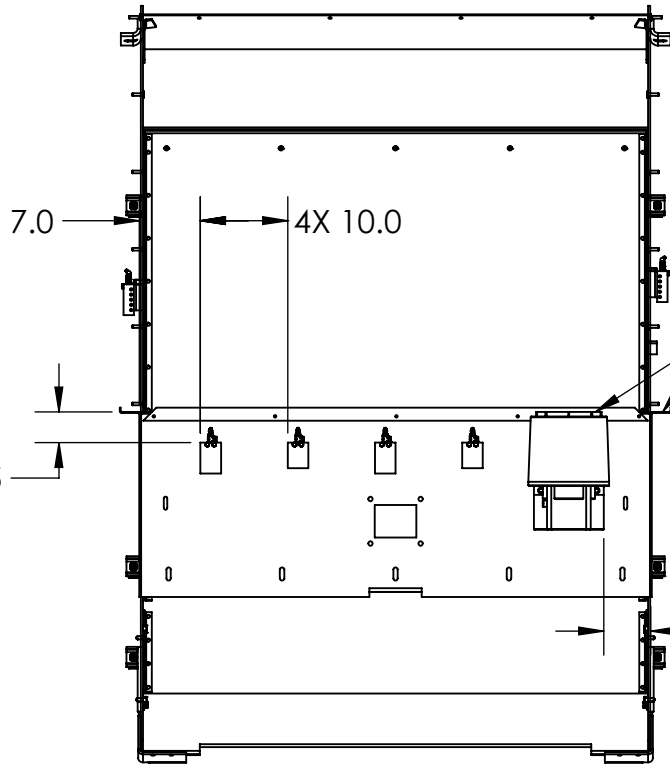
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
REF	331721	TURBO PRECLEANER OPTION TURBO	REV A
1	311517	PRECLEANER	1
2	331712	REDUCER - 5" OD X 3-3/4" ID	1
3	323515	CLAMP, CONSTANT TORQUE, 3.25" - 4.125"	1



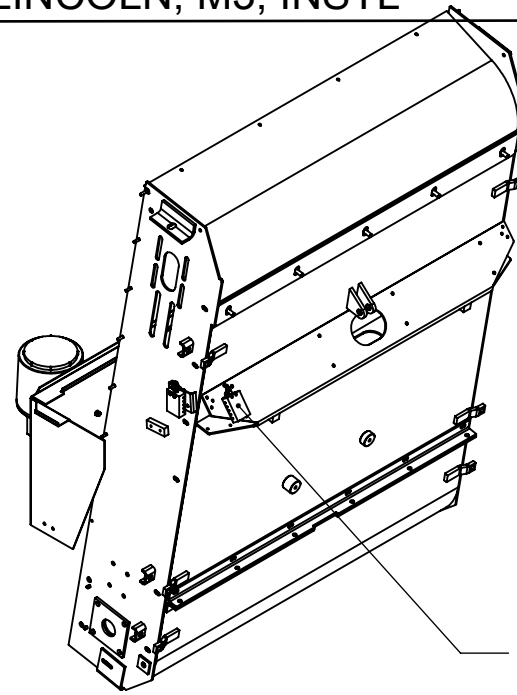
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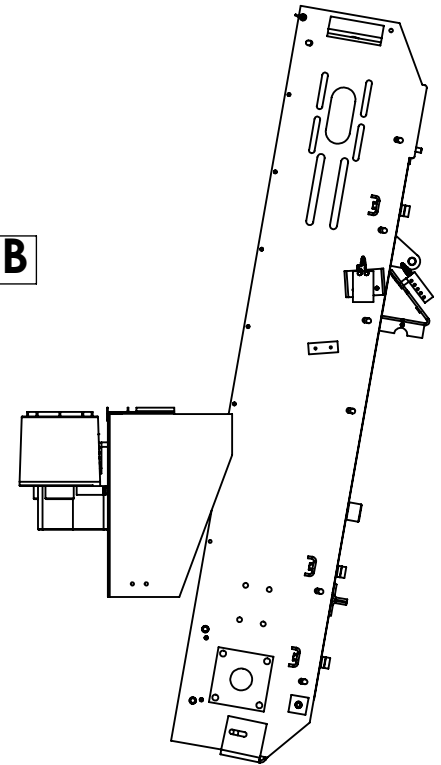
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
REF	331825	AIR GAP WATER TANK FILL	REV A
1	E354986	STRAINER, WATER FILL	1
2	E248228	COVER PLATE & FUNNEL WELD. FOR AIR GAP	1
3	E323990	PLATE, FENDER PANEL (RH)	1
4	331832	FENDER TOOLBOX LID, RWK	1
5	331833	LID SUPPORT WLDMT, RWK	1
6	1016006-12	TRIM, EDGE, SINGLE LIP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

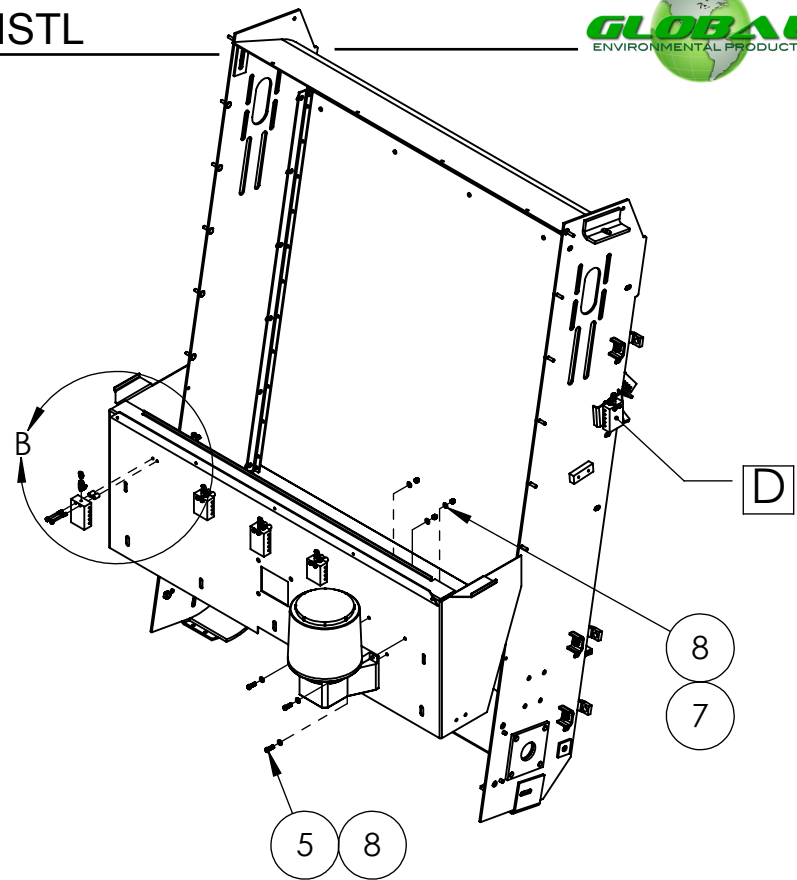
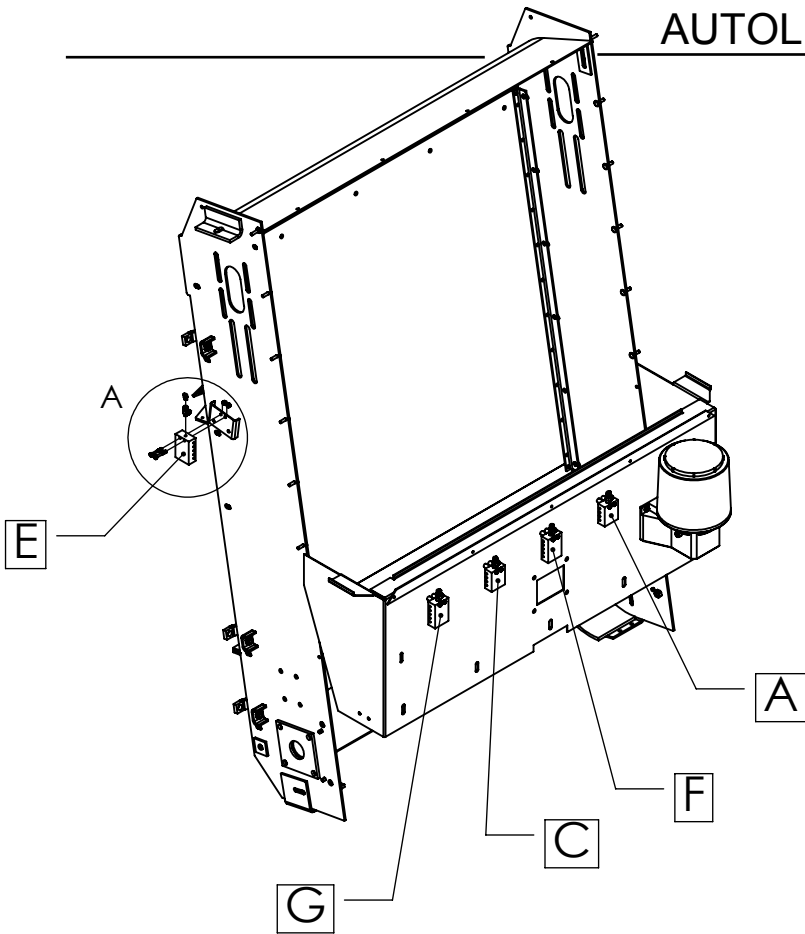


NOTE: TOP OF GREASE CONTAINER
MUST BE BELOW ELEVATOR SEAL



B





CONNECT TO MANIFOLD "A" USING HIGH-PRESSURE HOSE

TEE SUPPLIED WITH AUTOLUBE SYSTEM

TORQUE MOUNTING BOLTS TO 6.7 - 8.3 FT-LBS

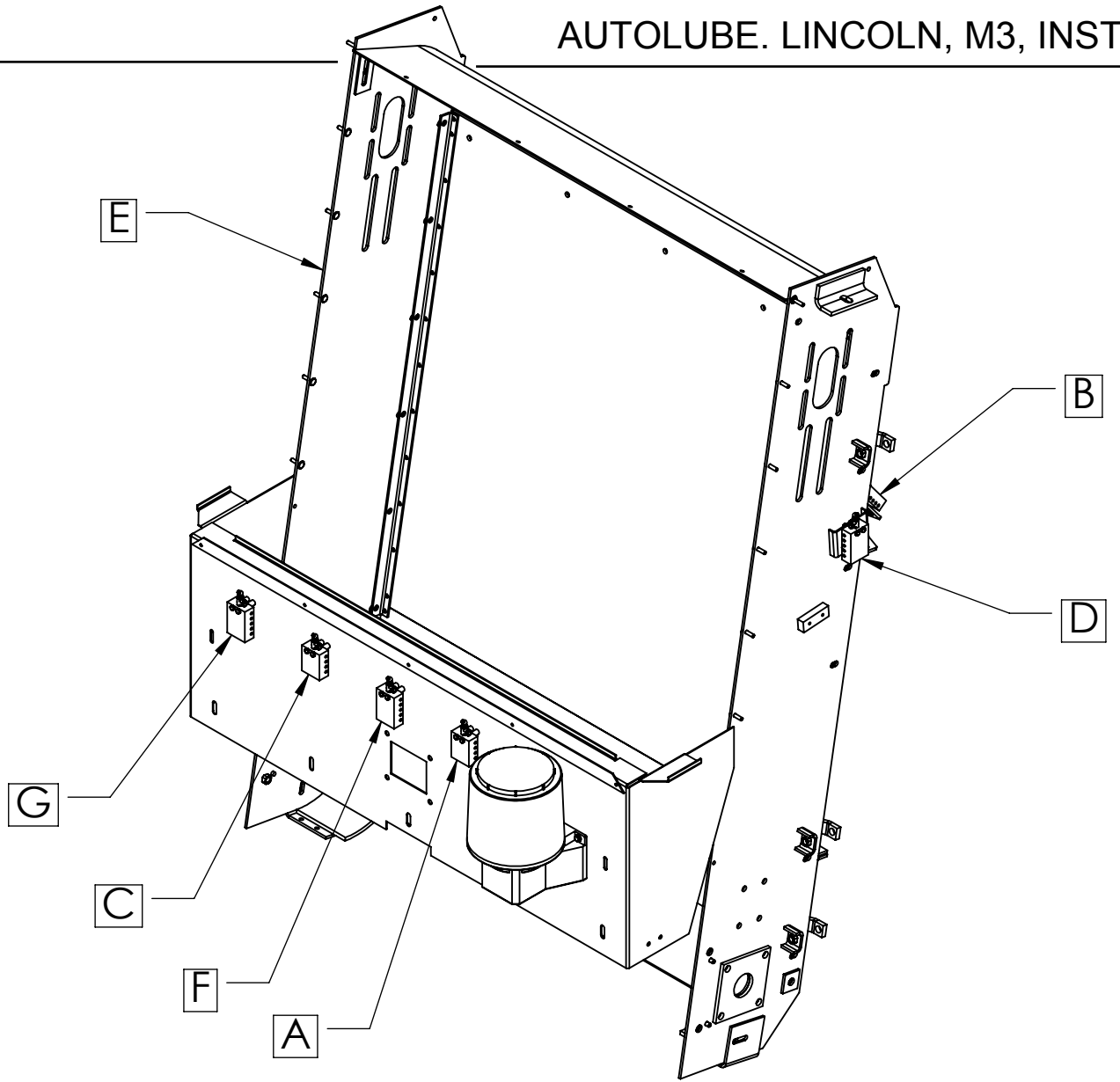
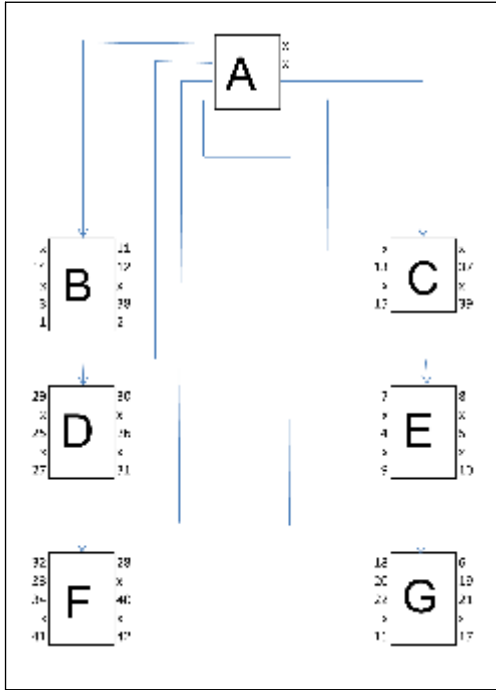
DETAIL A
SCALE 1 : 6

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



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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