
HDL500/280
Parts Manual
Part #5-376-000071



An Oshkosh Truck Corporation Company

1080 Hykes Road Greencastle, PA 17225
(717) 597-7111

LIMITED WARRANTY

Coverage and Procedures

Like our wheel lift and car carrier products, Jerr-Dan warranty programs are designed for the long haul.

Whether you own a wheel lift or car carrier, you are assured that your equipment is of the highest quality, and is covered under this limited warranty.*

Our one-year unlimited mileage plan is offered for wheel lifts and car carriers. This warranty is designed for the most comprehensive protection of your specific equipment.

WHEEL LIFT:

The Jerr-Dan one-year warranty covers material and workmanship including the following:

- I. Body
- II. Substructure
- III. Wheel lift assembly
- IV. Wrecker boom assembly
- V. Winch and winch components (excluding cable)
- VI. Hydraulics
- VII. Electrical wiring assembly

CAR CARRIERS:

The Jerr-Dan one-year warranty covers material and workmanship including the following:

- I. Deck
- II. Winch and winch components (excluding cable)
- III. Substructure
- IV. Hydraulics
- V. Electrical wiring assembly

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Procedures for warranty coverage:

1. Contact your selling distributor.
2. If necessary, contact Jerr-Dan for the distributor nearest you - Call 1-800-926-9666.
3. If necessary, Jerr-Dan may authorize repair by a qualified equipment service center. Under these arrangements, it will be necessary to obtain an estimate of repairs before any work is performed. Send estimate of repair cost to:

Jerr-Dan Corporation
Warranty Department
1080 Hykes Road
Greencastle, PA 17225

Be sure to include your daytime phone number.

4. Authorization for repairs under this limited warranty will be provided by telephone within 24 hours of receipt of valid warranty claims and confirmed by letter or fax.
- *5. This outlines the Jerr-Dan One-Year Warranty Plan. Coverage does not include damages caused by excessive abuse or consequential damages resulting from the lack of proper service, maintenance or need for repairs. All plans begin at original retail purchase date.

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LIMITED WARRANTY

Manufacturer's Warranty. Manufacturer's sole warranty shall be the following, which Distributor shall make on behalf of Manufacturer by conspicuous notice in writing accompanying each contract or memorandum of sale:

1. Warranty. Jerr-Dan Corporation, ("Manufacturer") warrants each new product made by it to be free from defects in material or workmanship for one year from the date of initial sale, lease, rental, or other disposition of such product, and agrees only to repair or replace at its own expense, f.o.b. the place or places of manufacture, at manufacturer's option, any part or parts of the product found to be defective in material or workmanship, provided Manufacturer is notified of such defect or defects within the one year warranty period and given a reasonable time to correct the defect. In no case, shall the warranty extend to defects in materials, components, or services furnished by third parties. Defects caused by chemical action, or the presence of abrasive materials and defects arising following the operation beyond rated capacity or the improper use or application of any Products shall not be considered defects within the scope of the foregoing warranty. If any repairs or alterations are made or any parts are replaced during the period covered by any warranty above mentioned by other than an authorized Manufacturer's Distributor in accordance with authorized Manufacturer's service manuals or with other than parts, accessories, or attachments authorized by Manufacturer for use in its products, customer shall pay for all such repairs or parts without recourse against Manufacturer, and Manufacturer shall be relieved of responsibility for fulfillment of this warranty with respect to parts or components of all repairs, alterations or replacements so made. No claims for labor shall be considered unless authorized by Manufacturer.

2. Disclaimer as to Consequential or Special Damages. Under no circumstances shall Manufacturer be liable for any consequential or special damage which any person, firm, corporation, or other entity may suffer or claim to suffer or incur or claim to incur as a result of any defect in the product or in any correction or alteration thereof made or furnished by Manufacturer or others. "Consequential" or "special damages" as used herein includes but is not limited to costs of transportation, lost sales, lost orders, lost profits, lost income, increased overhead, labor and material costs and cost of manufacturing variances and operational inefficiencies.

3. Maximum Liability. The maximum liability of Manufacturer under the exclusive warranty set forth herein shall be the amount paid to Manufacturer by the vendor of the component with respect to the product to which such vendor warranty applies.

4. Limitation of Liability. The limitation of liability provisions herein shall apply to any and all claims or suits brought against Manufacturer, including any claim based upon negligence, breach of contract, breach of warranty, strict liability or any other theories upon which liability may be asserted against Manufacturer.

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5. Exclusive and Entire Warranty. The warranty constitutes Manufacturer's entire warranty as to the product and it is expressly agreed that the remedies of dealer and those claiming under dealer as stated in this warranty are exclusive. Manufacturer does not assume (and has not authorized any other person to assume on its behalf) any other warranty or liability in connection with any product covered by this warranty.

MANUFACTURER EXPRESSLY DISCLAIMS ANY AND ALL OTHER WARRANTIES OF ANY KIND WHATSOEVER AS TO THE PRODUCT FURNISHED HEREUNDER, INCLUDING BUT NOT LIMITED TO EXPRESS OR IMPLIED WARRANTIES AS TO MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSES SOLD, DESCRIPTION OR QUALITY OF THE PRODUCT FURNISHED HEREUNDER.

6. Notice of Occurrence. This warranty shall be void if, upon the occurrence of any incident involving any product made by Manufacturer, and resulting in any personal injury or property damage, customer shall fail to notify Manufacturer within 24 hours of such occurrence or permit Manufacturer audit representatives to have immediate access to such product and to all records of and within the control of the customer and/or distributor relating to the product and the occurrence.

7. Filing of Warranty Claim. Upon notifying the Manufacturer of a failure, the Manufacturer or its representative will verbally authorize and confirm by letter the repairs to be made. Verbal authorization will require the following information:

- A) Owner's name and telephone number.
- B) The dealer's name from whom it was purchased.
- C) The Manufacturer's unit serial number.
- D) Telephone number of the party making the repairs.
- E) The part numbers needed to make repairs.
- F) Owner to be informed of C.O.D. on parts, 50% to assure return of defective parts.

At this time, the Manufacturer will ship as soon as practical the parts needed to make the repair. Included with the parts will be the invoice for the parts and a Request for Warranty form, with the Warranty Return Tags.

The vehicle owner/dealer will complete the Request for Warranty form and the Warranty Return Tag marked "Return with Shipping Notice". Both documents should be attached to the shipping notice and returned to the Manufacturer by mail. The parts to be returned shall be tagged with the Warranty Return Tag (more than one part pertaining to the same warranty claim shall be identified with the same warranty claim number - see number on Warranty Return Tag). All parts under this claim shall be returned to the Manufacturer pre-paid for warranty evaluation.

Upon receiving the part or parts for warranty evaluation, the part will be inspected and tested. After being inspected and tested, the decision to honor or deny warranty claim shall be based on analysis of all available information.

When warranty is honored, the Manufacturer will reimburse the owner/dealer in the amount agreed to by both parties.

If warranty is denied, the owner and distributor will be notified in writing of the decision and a full explanation for the decision will be given.

8. Manufacturer may at any time amend the foregoing form of warranty without prior notice.

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DO NOT EXCEED THE FOLLOWING RATINGS:

HDL500/280

BOOM RATING:

SAE Rating - Boom elevated at 30° Angle¹

Retracted 50,000 lbs.
Extended 16,000 lbs.

WINCH RATING: (Standard Ramsey Worm Gear)²

Each Drum (Single Speed, Variable Control) 25,000 lbs.

WINCH RATING: (Optional Ramsey Planetary Gear)²

Each Drum (Single Speed, Variable Control) 25,000 lbs.

WIRE ROPE: (Standard Winch)

Working Limit Each Line 11,770 lbs.
Construction 6 x 37 EIP IWRC
Diameter 5/8 inch
Standard Length 200 Feet

WIRE ROPE: (Optional Winch)

Working Limit Each Line 11,770 lbs.
Construction 6 x 37 EIP IWRC
Diameter 5/8 inch
Standard Length 200 Feet

UNDER LIFT RATING:

Full Retracted 28,000 lbs.³
Full Extended 14,000 lbs.³
Tow Rating 80,000 lbs.

HEAVY DUTY TIRE LIFT RATING (OPTION):

Lifting Capacity (Each Arm) 7,000 lbs.
Lifting Capacity (Total) 14,000 lbs.
Towing Capacity (Maximum)⁴ 42,000 lbs.

5th WHEEL PLATE (OPTION):
Lifting Capacity 15,000 lbs.
Towing Capacity 25,000 lbs.

PINTLE HOOK BALL HITCH (OPTION):
2 in. Ball Hitch 10,000 lbs. (GTW)
Pintle Hook 16,000 lbs. (GTW)

GROSS TRAILER WEIGHT 3,000 Maximum Vertical Load

- 1 SAE J2512: Surface Vehicle Recommended Practices - Towing Equipment Ratings and Practices
- 2 SAE J706: Surface Vehicle Recommended Practices - Rating of Winches
- 3 Rating Using Axle And Spring Lift Tools
- 4 THE TOWING CAPACITY SHOULD NOT EXCEED THE GROSS COMBINED WEIGHT RATING (GCWR) OF THE TOWING VEHICLE OR 42,000 LBS. (GCW) GROSS COMBINED WEIGHT OF THE TOWED VEHICLE, WHICHEVER IS LOWER.

MAXIMUM LIFTING CAPACITY - THE MAXIMUM LOAD THAT CAN BE LIFTED.

GROSS COMBINED WEIGHT RATING (GCWR) - THE VALUE SPECIFIED BY THE VEHICLE MANUFACTURER AS GCW.

GROSS TRAILER WEIGHT (GTW) - THE MAXIMUM TRAILER WEIGHT WITH LOAD.

GROSS COMBINED WEIGHT (GCW) - ACTUAL WEIGHT OF THE ENTIRE VEHICLE AT THE GROUND WITH TRAILER OR TRAILERS, INCLUDING VEHICLE EQUIPMENT, DRIVER, PASSENGER, FUEL AND PAYLOAD (EVERYTHING THAT MOVES WITH THE VEHICLE).

NOTE

These ratings apply to the structural design of the HDL500/280 only and may be limited by the axle rating and gross vehicle weight rating of the truck chassis. CHECK TRUCK MANUAL FOR SPECIFIC GVW & AXLE RATINGS. ALSO REFERENCE THE CERTIFICATION DECAL AFFIXED TO DRIVER'S SIDE DOOR JAMB.

MAINTENANCE AND LUBRICATION

Your HDL has been designed to give you excellent service and long life but like all equipment, it requires proper and periodic maintenance. The truck chassis itself is on a maintenance schedule recommended by the manufacturer. Follow these guidelines and protect your vehicle warranty. There are a number of different lubricants used on your HDL and the following chart details the proper lubricant and the most common brands and specification which meet the requirements.

Use only safe practices when maintaining this equipment. Always shut off the engine before reaching into pinch areas.

Inspect the vehicle and under lift system periodically for damage or evidence of pending failure. Damaged or broken parts should be replaced immediately. Never operate a machine which is known to be defective or operating improperly. The cause of any binding or leakage should be determined immediately and the problem promptly fixed.

Critical wear points on your HDL must be lubricated at regular intervals. Sliding surfaces are to be cleaned and coated with a heavy grease periodically. Cleaning every month is recommended for normal highway operations, but this frequency will vary appreciably with the type of service. Sliding on dirty wear surfaces will cause rapid wear. Fittings on linkage pivots should be greased every two (2) months, again depending upon usage. The following chart and diagram shows the location of these points, and when and what type of lubricant to use.

Check the hydraulic oil level bi-monthly or after any leakage. A sight glass has been provided on the hydraulic tank. The proper oil level is best checked with all cylinders fully retracted. Use 5W20 Dual Range hydraulic oil. (Automatic transmission fluid may be used in the hydraulic system if necessary.)

The hydraulic filters located on the return side of the hydraulic tank come equipped with restriction indicator gauges. The gauges show the operator the condition of the filter elements. When the needle reaches the red band (25 psi), the filter is starting to bypass and the element needs to be changed. Failure to change the element will result in premature wear and/or failure of any or all of the hydraulic components. **Only check gauges with hydraulic fluid at operating temperatures. Cold oil is more dense and will give a false indicator gauge reading.**

Cold temperatures can cause hydraulic oils to thicken and adversely affect the hydraulic functions of your wrecker. If this is the case, it will be necessary to change the hydraulic oil to maintain maximum system efficiency. A hydraulic oil such as Mobil DTE 11M can be used to replace the factory installed oil or it can be added to and mixed with the hydraulic oil in your factory system.

If a cylinder seal leaks, disassemble the cylinder and ascertain the cause of the leak. Small scores caused by chips or contaminated fluid can usually be worked out with fine emery cloth to avoid repetition of the trouble. Whenever any seal replacement is necessary, it is always advisable to replace all seals in that component. These seals are available in kits. Also, thoroughly clean all components before reassembly.

The body of your Jerr-Dan has been built from high strength aluminum and composite material which has been carefully assembled in our factory. To keep it clean and free of dirt use any non-abrasive soap or detergent recommended for automotive finishes. Use a soft cloth or sponge and finish with a thorough rinsing. Drying with a soft cloth or chamois will prevent spotting or streaking. A coat of automotive wax is recommended.

The HDL is mounted to the truck chassis by bolts. These bolts are torqued at the factory to 300 ft. lbs. We recommend that these bolts be re-torqued within the first 30 days and periodic inspection and retorquing of these bolts as required thereafter. Replace any broken or damaged bolts immediately.

The HDL1000/350, HDL1000/550, HDL1000/565, HDL1200/530 and HDL1200/565 wrecker boom has adjustable shim plugs in it that keep the fly boom travel straight and parallel with in the outer boom. Periodically adjust and tighten the shims as they wear. These are located at the sheave end of the wrecker boom, and inside the wrecker boom in the internal end of the fly boom.

**TIGHTENING TORQUES (FOOT-POUNDS)
FOR SCREWS AND NUTS**

SIZE INCHES (MM)	 GRADE 2	 GRADE 5	 GRADE 8
1/4 (6.350)	6	8	10
5/16 (7.938)	10	14	19
3/8 (9.525)	17	27	33
7/16 (11.112)	28	45	60
1/2 (12.700)	45	68	90
9/16 (14.288)	63	100	120
5/8 (15.875)	90	135	180
3/4 (19.050)	145	230	310
7/8 (22.225)	145	380	500
1 (25.400)	220	570	760

- All torque values shown are for bolts (cap screws) and nuts that are either zinc-plated or lubricated.
- Torques shown above apply to screws and nuts used for assembly and installation of all wrecker components.
- Different torque values may be given in instructions for certain components due to short thread engagement or low-strength internal threads.
- When nuts are used, tighten nuts to torques shown (screws or bolts should be held but not turned).
- Retighten nuts of all mounting screws that secure the wrecker and wrecker-body within two weeks after they are first installed on the vehicle. Thereafter, inspect such screws and nuts visually once every month and after each job imposing extremely heavy loads on the equipment. Periodically recheck all accessible screws and nuts for proper tightness.
- Converting ft/lbs to Nm (Newton metres) can be accomplished by using the following:

Multiply: by: to get:
 ft/lbs x 1.3558 = Nm (Newton metres)

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OILS AND GREASES

The following oils and greases are suitable for use with your Jerr-Dan.

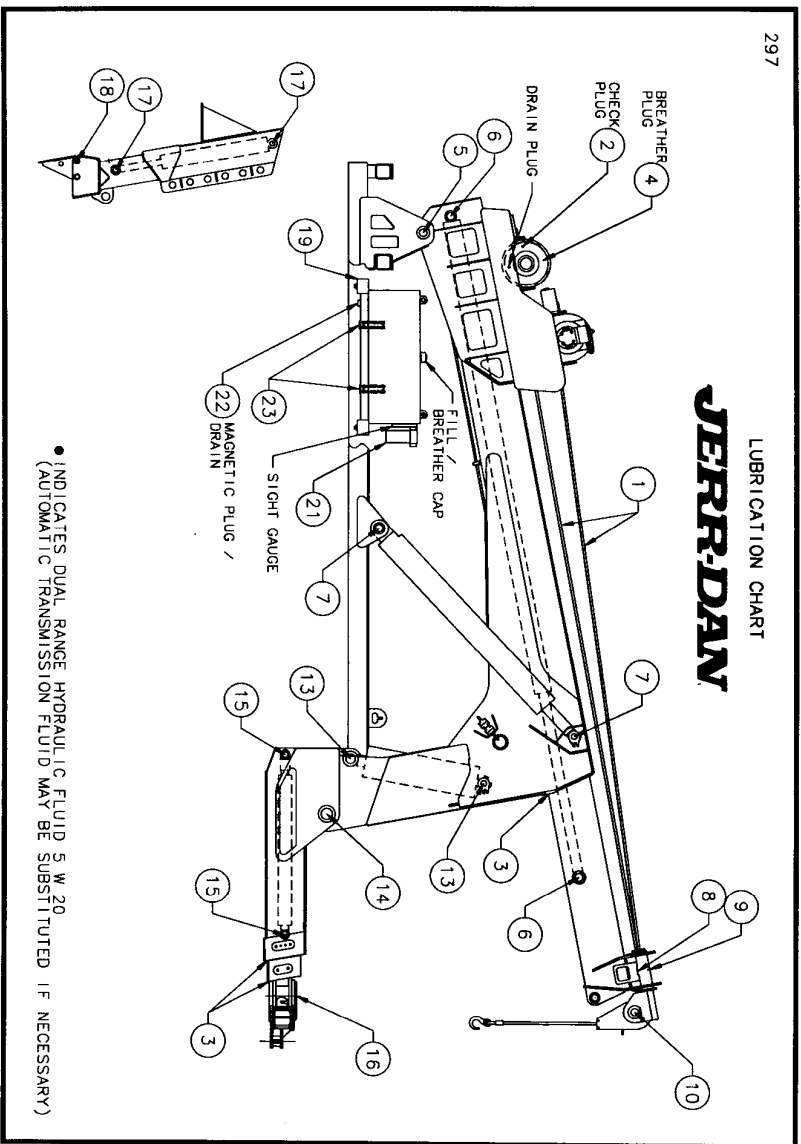
Company	Product
HYDRAULIC OILS	
1. Drydene Dual Range	Hydraulic Fluid 5w20
2. Sun Refining & Marketing	2105 Hydraulic
3. D.A. Lubricants	5w20 HiVi
4. Texaco	Rando HDAZ
5. Mobil Oil Corp.	DTE 15
6. Mobil Oil Corp.	DTE 11M
7. Amoco Oil Co.	Rykon MV
8. Citgo	A/W All Temp
GREASES	
1. Drydene	HD Lithium EP2
2. Gulf	Crown EP2
3. Amoco	Amolith EP2
4. Shell	Alvania EP2
5. Texaco	Marfax EP2
6. Mobil	Mobilux EP2
7. Sunoco	Prestige EP2
WINCH AND GEAR LUBE	
1. Phillips	140 wt. EP Gear Lube 93301 (or approved equivalent)

HDL500/280 LUBRICATION POINTS

The following lubrication charts are located inside the tool box door on the driver's side of the HDL body.

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LUBRICATION CHART					
JERR-DAN					
INTERVAL (HOURS)	REF NO.	IDENTIFICATION	SERVICE	LUBRICANT	NO. OF POINTS
WEEKLY	1	CABLE	OIL	ENGINE OIL	2
50 OR BI-MONTHLY	2	WINCH GEAR BOX	CHECK		2
	3	NYLATRON PADS	COAT	MPG	3
	4	WINCH CASE BREATHERS	CHECK		2
100 OR MONTHLY	5	BOOM PIVOT	LUBE	MPG	1
	6	WRECKER BOOM EXT. CYLINDER	LUBE	MPG	2
	7	WRECKER BOOM LIFT CYLINDER	LUBE	MPG	4
	8	"D"-RING	LUBE	MPG	2
	9	WRECKER BOOM SHEAVE HEAD	LUBE	MPG	2
	10	SHEAVE PIN	LUBE	MPG	2
	11				
	12				
	13	UNDERLIFT TILT CYLINDER	LUBE	MPG	2
	14	UNDERLIFT PIVOT	LUBE	MPG	3
	15	UNDERLIFT EXTEND CYLINDER	LUBE	MPG	1
	16	CROSSTUBE PIVOT	LUBE	MPG	1
	17	SPADE EXTEND CYLINDER	LUBE	MPG	4
	18	SPADE CLAW PIVOT	LUBE	MPG	2
	19	HYDRAULIC RESERVOIR	CHECK		
	20	CONTROL VALVE HANDLES	CLEAN & OIL	ENGINE OIL	9
250 OR SEMI- ANNUALLY	2	WINCH GEAR BOX	DRAIN & FILL	GL 5 #140	2
	21	HYDRAULIC FILTER	CHANGE		2
1000 OR YEARLY	19	HYDRAULIC RESERVOIR	DRAIN & FILL	•	1
	22	MAGNETIC PLUG	CLEAN		1
	23	RESERVOIR STRAINER	CLEAN		2

HDL500/280 LUBRICATION POINTS



TROUBLE SHOOTING

You probably won't require anything but preventive maintenance to keep your HDL running, however, the following chart should help you isolate and correct minor problems if they occur with use. Any service work on the hydraulic system should be performed by qualified mechanics.

HYDRAULIC SYSTEM

Problem	Cause	Solution
Slow operation	a. Low engine RPM b. Low oil level c. Blocked or restricted hose d. Dirty hydraulic oil e. Hydraulic pump worn f. Frozen hydraulic lines	a. Speed up engine b. Check level and fill with the specified oil c. Inspect: remove blockage d. Drain, flush and refill with clean oil, replace filter e. Rebuild or replace f. Thaw and remove water
Valve handle sticks tight or frozen	a. Insufficient lubrication b. Broken centering spring or clogged with foreign material	a. Lubricate per lube chart b. Inspect, clean or replace
Valve leaks	a. Defective seals	a. Inspect and replace
Cylinder leaks	a. Defective seals or rods	a. Inspect and replace
Erratic cylinder function	a. Air in the system b. Defective pump (pulsating)	a. Cycle hydraulic system 10 to 15 times to remove air b. Replace if necessary
Remote hand controller fails to respond	a. Electric power turned off b. Discharged battery c. Defective battery d. Emergency - Off switch depressed	a. Turn on CONTROL power switch in cab b. Charge battery c. Replace d. Release/pull switch on transmitter

P.T.O. FUNCTIONING IMPROPERLY

Problem	Cause	Solution
Cable tight or frozen	a. Cable kinked or bent b. Cable and PTO connection not adjusted properly c. Mounting bracket nuts are over tightened at P.T.O.	a. Straighten or replace b. Inspect and adjust c. Loosen if necessary
Rattling noise in P.T.O.	a. P.T.O. backlash too loose (Consult P.T.O. Manual)	a. Shims must be removed

TROUBLESHOOTING

P.T.O. FUNCTIONING IMPROPERLY

Problem	Cause	Solution
Howling noise in P.T.O.	a. P.T.O. backlash too tight (Consult P.T.O. Manual)	a. Shims must be added
Gear oil leak between P.T.O. and pump	a. Defective shaft seal	a. Remove and replace
P.T.O. will not engage or disengage	a. Cable and PTO connection not adjusted properly b. Defective shifter cover	a. Inspect and adjust b. Inspect and replace

HYDRAULIC PUMP

Problem	Cause	Solution
Pump noisy (Cavitation)	a. Low oil supply b. Heavy oil c. Dirty oil filter d. Restriction in suction line e. Pump worn	a. Fill to proper level b. Fill with proper oil (See chart) c. Replace filter d. Clean out and remove e. Repair or replace
Pump slow or fails to respond	a. Low oil supply b. Cold Thick Oil	a. Fill to proper level b. Drain and refill with a low temperature oil.
Oil heating up	a. Foreign material lodged in relief valve b. Using too light oil c. Dirty oil d. Oil level too low e. Pump worn (slippage)	a. Inspect and remove/replace filter b. Drain and refill with clean oil c. Drain, flush and refill with clean oil/replace filter d. Fill to proper level e. Repair or replace
Oil foaming	a. Air leaking into suction line b. Wrong kind of oil	a. Tighten all connections b. Drain and refill with non-foaming type of hydraulic oil (See lube chart) Replace filter
Hydraulic oil leak between P.T.O. and pump	c. Oil level too low a. Defective shaft seal	c. Refill to proper level a. Replace shaft seal
Pump leaks at front and rear covers	a. Defective seals	a. Replace seals

TROUBLESHOOTING **WINCH FUNCTIONING IMPROPERLY**

Problem	Cause	Solution
Winch screeches during operation	a. Insufficient lubrication	a. Lubricate per lube chart
Winch will not pull load or take in wire rope	a. Free-spooling device not engaged	a. Engage
	b. Sheared keys or broken coupling	b. Inspect or replace
	c. Hydraulic pump worn	c. Inspect and replace
Free-spool device	a. No air pressure	a. Turn truck on
	b. Insufficient air pressure	b. Allow truck to run
	c. Defective pressure switch	c. Inspect and replace
	d. Leaking air line	d. Inspect and replace
Cable tensioner device non-functional	a. No air pressure	a. Turn truck on
	b. Insufficient air pressure	b. Allow truck to run
	c. Defective pressure switch	c. Inspect and replace
	d. Leaking air line	d. Inspect and replace
Cable speed shift nonfunctional	a. No air pressure	a. Turn truck on
	b. Insufficient air pressure	b. Allow truck to run
	c. Defective pressure switch	c. Inspect and replace
	d. Leaking air line	d. Inspect and replace

**WHEEL LIFT SYSTEM
PARTS**

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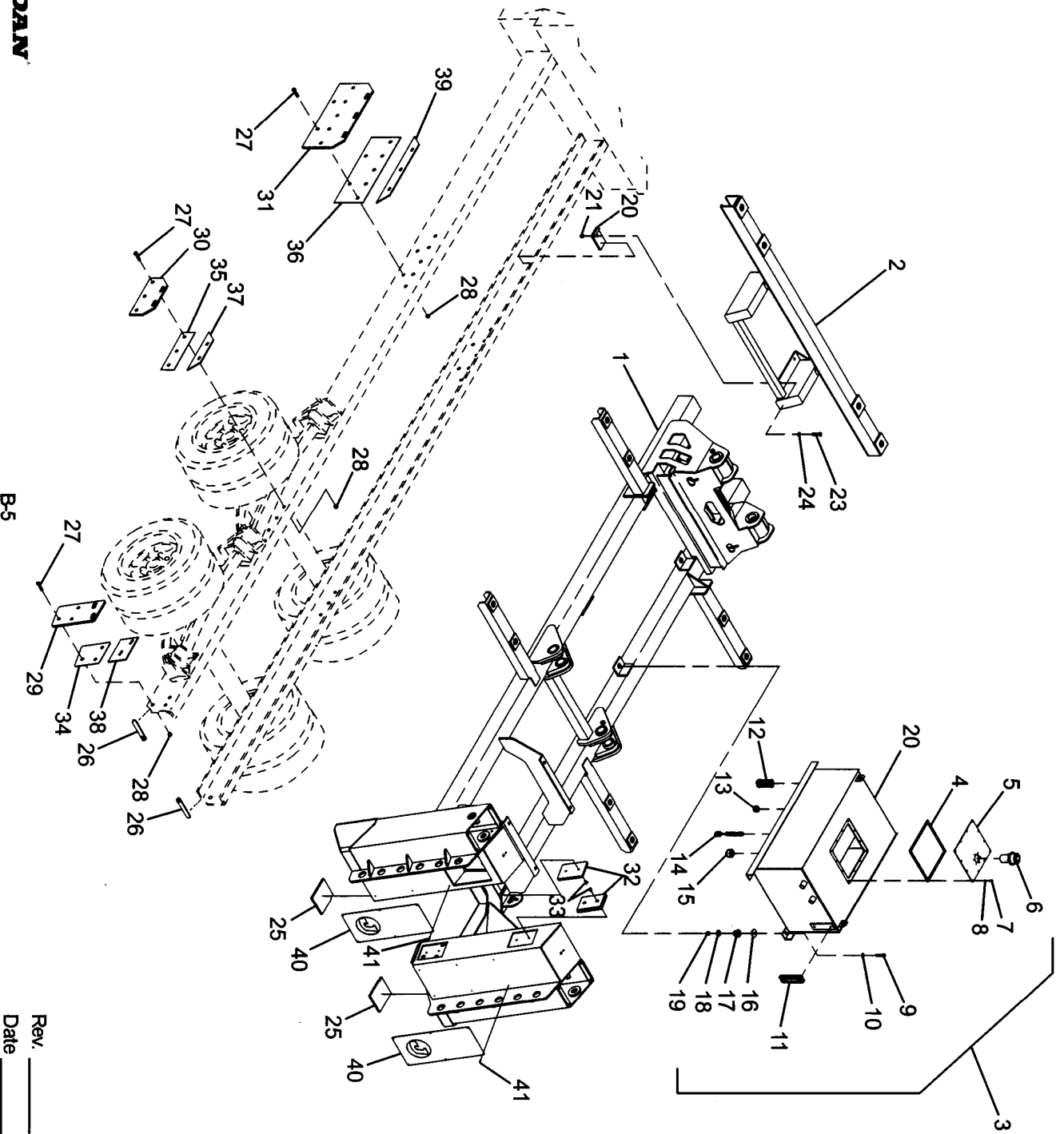
PARTS LIST — SUBFRAME INSTALLATION

Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	3868000179	Subframe Weldment 86/112" Body	1	37 ²	4706002555	Plate	2
	3868000202	Subframe Weldment 146" Body		38 ²	4706002556	Plate	2
2	3868000157	Stand Alone Subframe Weldment	1	39 ²	4706002163	Plate	2
3	2507650009	Hydraulic Tank Installation	1	40	4706002491	Plate	2
4 ¹	7796000051	Gasket	1	41	7759000006	Rivet	12
5 ¹	4706002235	Plate	1				
6 ¹	7183000002	Breather Cap Assembly	1				
7 ¹	7115140650	Capscrew	12				
8 ¹	7950140000	Lockwasher	12				
9	7115181850	Capscrew	4				
10	7950180141	Flatwasher	4				
11 ¹	7470000001	Gauge	1				
12	7430000007	Filter	1				
13 ¹	7444120014	Plug	1				
14	7701000025	Magnetic Plug	1				
15 ¹	7444160011	Plug	1				
16	7949000015	Washer	4				
17	7636000003	Mount Center Bonded	4				
18	7949000016	Washer	4				
19	7660182601	Locknut	4				
20 ¹	3750000021	Hydraulic Tank Weldment	1				
21	3274000011	Toolbox Clamp	4				
22	7660182301	Locknut	4				
23	7115182050	Capscrew	4				
24	7950180252	Flatwasher	4				
25	4706002557	Plate	2				
26	4062000324	Bar	2				
27	7118221816	Capscrew	26				
28	7660222308	Locknut	26				
29	4706002554	Plate	2				
30	4706002490	Plate	2				
31	4706002961	Plate	2				
32	4679000127	Nylatron Pad	4				
33	7115160623	Capscrew	8				
34 ²	4706002141	Shim Plate .13 Thk	2				
	4706002142	Shim Plate .25 Thk					
35 ²	4706001773	Shim Plate .13 Thk	2				
	4706001776	Shim Plate .25 Thk					
	4706002492	Shim Plate .13 Thk					
36 ²	4706002493	Shim Plate .25 Thk	2				

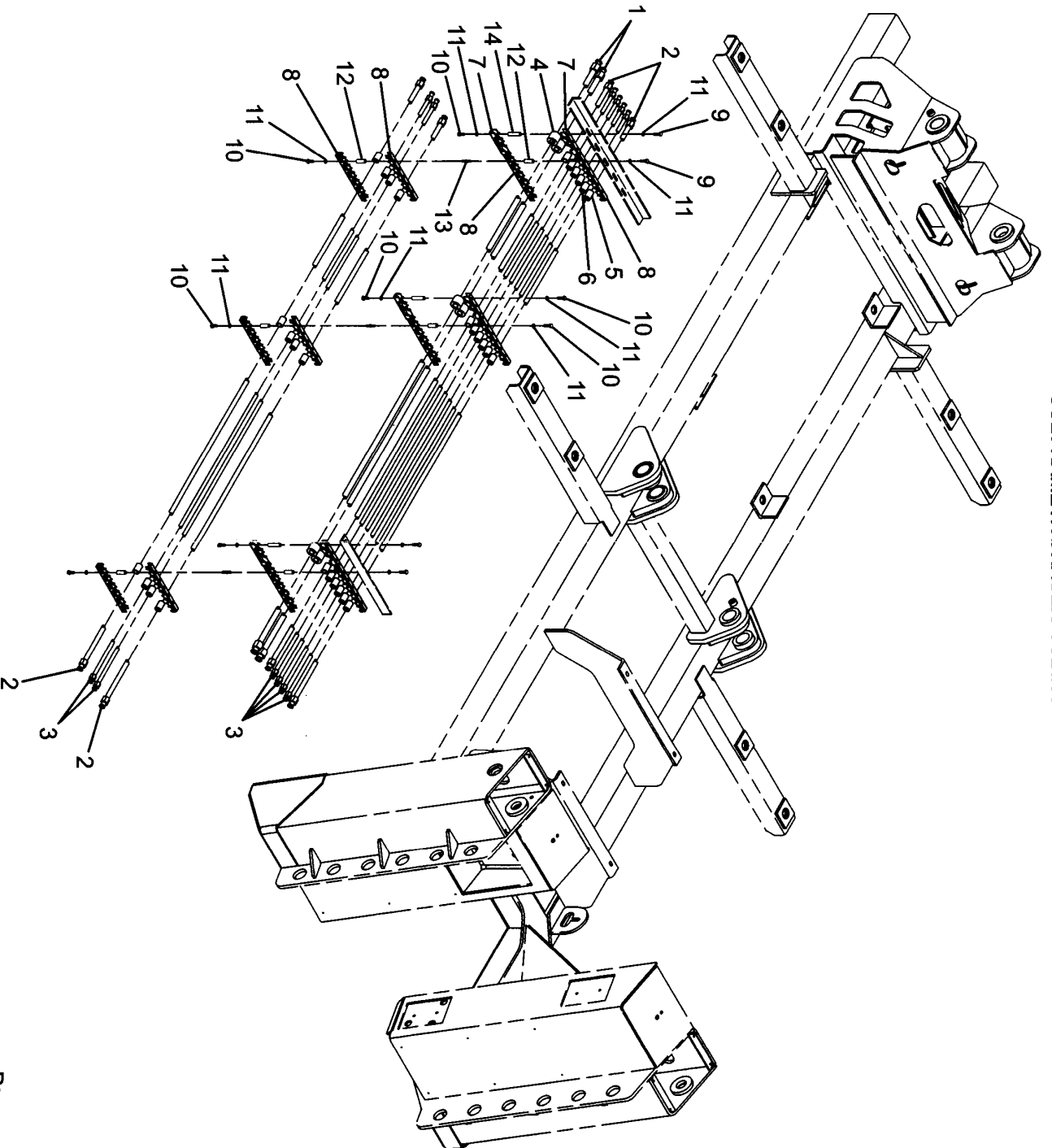
¹ Available in Assembly 3750000022
² Available in Shim Kit 3577000036



SUBFRAME INSTALLATION



SUBFRAME HYDRAULIC TUBING



PARTS LIST — SUBFRAME HYDRAULIC TUBING

Ref. No.	Part No.	Description	Qty.
1	7912000109	Tubing	2
2	7912000036	Tubing	4
3	7912000035	Tubing	6
4	7209000032	Bushing	6
5	7209000024	Bushing	12
6	7209000023	Bushing	18
7	7274000049	Clamp	3 Pr.
8	7274000030	Clamp	6 Pr.
9	7115150850	Capscrew	10
10	7115150650	Capscrew	20
11	7950150000	Flatwasher	30
12	7661000022	Stacking Nut	18
13	7007000036	Adapter	9
14	7661000027	Stacking Nut	6



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PARTS LIST — DRIVER SIDE CONTROLS

Ref. No.	Part No.	Description	Qty.
1	3686000016	Panel Weldment	1
2	4706002496	Plate	1
3	4706002497	Plate	1
4	7950140161	Flatwasher	13
5	7661000006	Wellnut	10
6	7111140813	Machine Screw	10
7	7790141056	Self-Tapping Screw	10
8	7660142601	Locknut	19
9	7115140650	Capscrew	3
10	4638000003	Brush	1
11	4411000113	Brush Holder	1
12	3178000276	Bracket	1
13	7950160161	Flatwasher	30
14	7115161050	Capscrew	10
15	7660162601	Locknut	12
16	7551000002	Knob	8
17	3551000037	Handle Assembly	8
18	3831000023	Spacer Assembly	1
19	4806000018	Shaft	1
20	7754000009	Retaining Ring	2
21	7082000005	Bearing	20
22	4706002629	Plate	1
23	4062000210	Bar	4
24	4062000211	Bar	3
25	4062000346	Bar	1
26	4062000212	Bar	5
27	7062000347	Bar	3
28	4935000087	Control Valve	1
29	7115140864	Carriage Bolt	16
30	7118160621	Capscrew	1
31	7812000006	Shim	1
32	7115162450	Capscrew	2
33	7115161650	Capscrew	1
34	7690141200	Clevis Pin	16
35	7690000810	Cotter Pin	16
36	7330000262	Warning Decal	1
37	7330000199	Warning Decal	1
38	7330000200	Warning Decal	1
39	7330000253	Caution Decal	1
40	7330000305	Control Decal	1

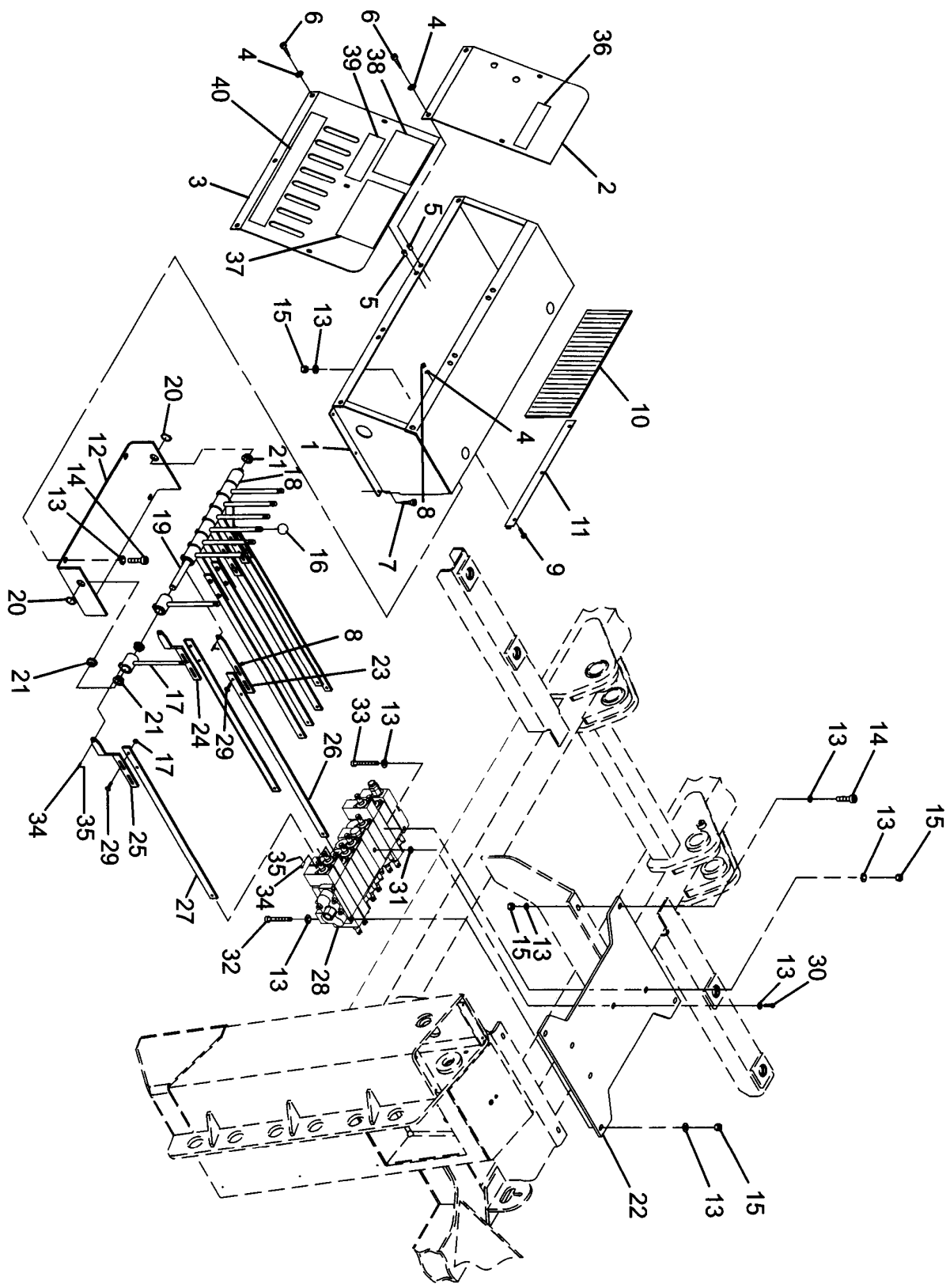


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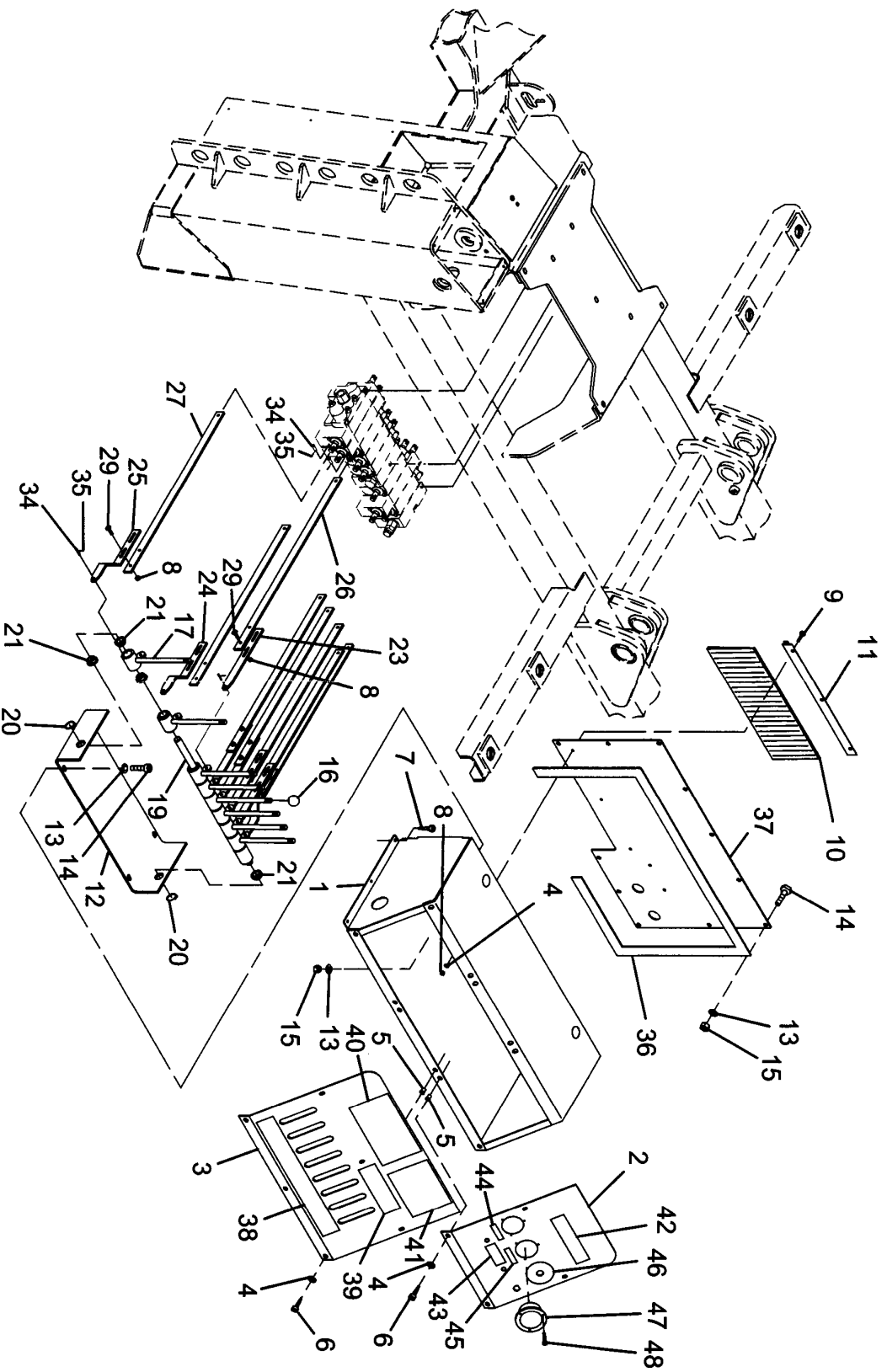
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DRIVER SIDE CONTROLS



PASSENGER SIDE CONTROLS



PARTS LIST — PASSENGER SIDE CONTROLS

Ref. No.	Part No.	Description	Qty.
1	3686000016	Panel Weldment	1
2	4706002631	Plate	1
3	4706002640	Plate	1
4	7950140161	Flatwasher	13
5	7661000006	Wellnut	10
6	7111140813	Machine Screw	10
7	7790141056	Self-Tapping Screw	10
8	7660142601	Locknut	19
9	7115140650	Capscrew	3
10	4638000003	Brush	1
11	4411000113	Brush Holder	1
12	3178000276	Bracket	1
13	7950160161	Flatwasher	40
14	7115161050	Capscrew	21
15	7660162601	Locknut	22
16	7551000002	Knob	8
17	3551000038	Handle Assembly	8
18	3831000023	Spacer Assembly	1
19	4806000018	Shaft	1
20	7754000009	Retaining Ring	2
21	7082000005	Bearing	20
22	7790060676	Self-Tapping Screw	6
23	4062000210	Bar	4
24	4062000211	Bar	3
25	4062000346	Bar	1
26	4062000212	Bar	5
27	7062000348	Bar	3
28	7470000004	Pressure Gage	2
29	7115140864	Carriage Bolt	16
30	7330000184	Throttle Decal	As Req'd
31	7330000246	Decal	1
32	7330000245	Decal	1
33	7330000249	Decal	1
34	7690141200	Clevis Pin	16
35	7690000810	Cotter Pin	16
36	7796000012	Seal	7 FT
37	4811000276	Sheet	1
38	7330000312	Control Decal	1
39	7330000253	Caution Decal	1
40	7330000200	Warning Decal	1
41	7330000199	Warning Decal	1
42	7330000262	Warning Decal	1



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PARTS LIST — BOOM INSTALLATION

Ref. No.	Part No.	Description	Qty.
1	3170000175	Outer Boom	1
2	7320000035	Boom Lift Cylinder	2
3	3691000161	Pin	2
4	3691000162	Pin	2
5	3691000163	Pin	1
6	7950180161	Flatwasher	5
7	7115180850	Capscrew	5
8	7274000051	Clamp	2
9	4949000031	Shim .063" Thick	2
	4949000032	Shim .093" Thick	
10	7950180000	Lockwasher	5
11	7440030000	Grease Fitting	1
12	7912000108*	Tube Assembly	4
13	7912000105*	Tube Assembly	1
14	7912000106*	Tube Assembly	1
15	7274000030*	Six Hole Clamp	3
16	7661000022*	Stacking Nut	13
17	7115150650*	Capscrew	13
18	7950150000*	Flatwasher	13
19	7274000056*	Clamp	2
20	7209000023*	Split Bushing	14

*Available in Tubing Kit #3912000006

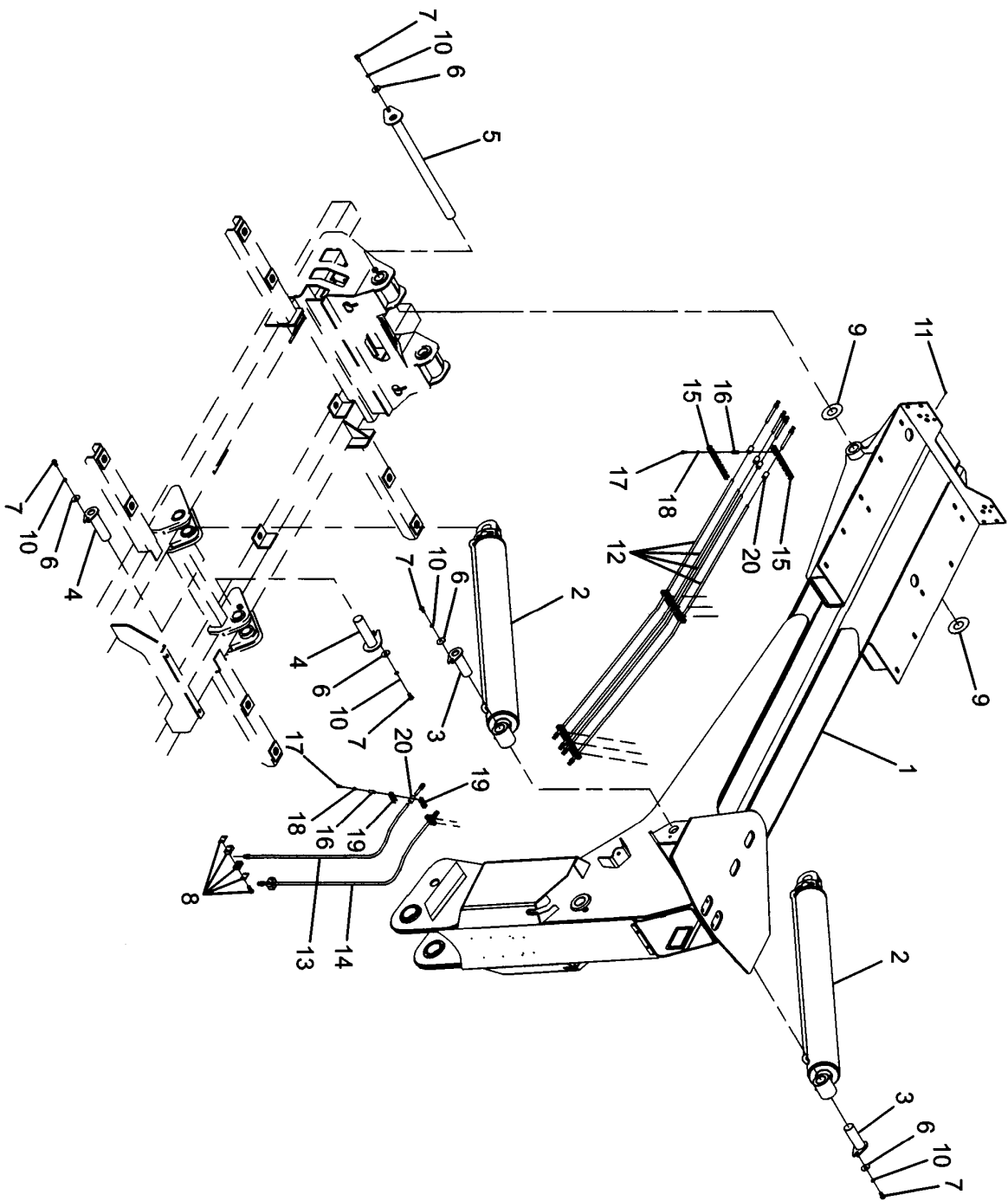


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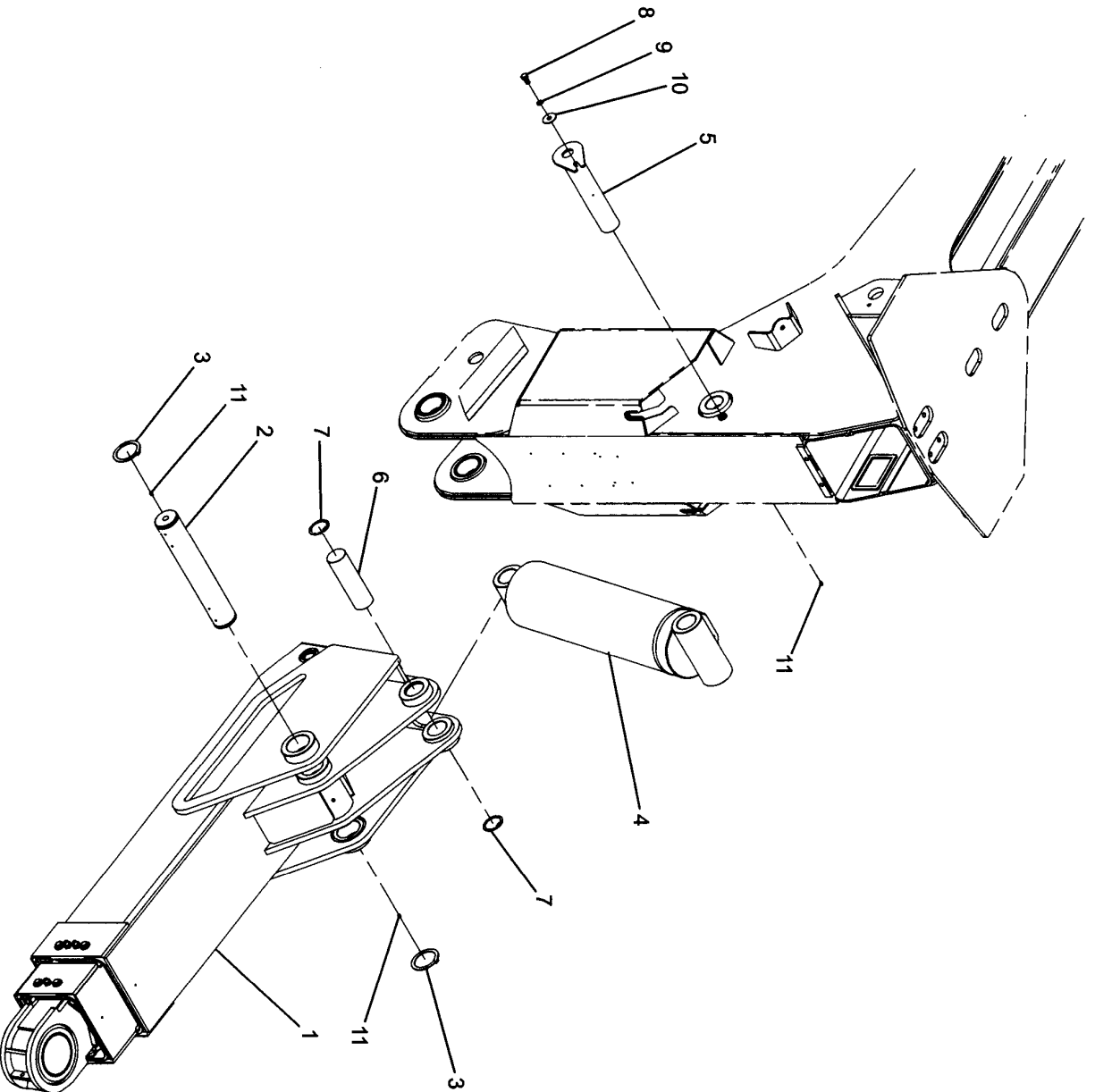
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Date _____

BOOM INSTALLATION



UNDERLIFT BOOM INSTALLATION



PARTS LIST — UNDERLIFT BOOM INSTALLATION

Ref. No.	Part No.	Description	Qty.
1	3170000225	Boom Assembly (Std.)	1
	3170000220	Boom Assembly (Opt. +6.00)	
2	4691000311	Pin	1
3	7754000018	Retaining Ring	2
4	7320000033	U/L Tilt Cylinder	1
5	3691000160	Pin	1
6	4691000317	Pin	1
7	7754000051	Retaining Ring	2
8	7115180850	Capscrew	1
9	7950180000	Lockwasher	1
10	7950180161	Flatwasher	1
11	7440030000	Grease Fitting	3



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**PARTS LIST — UNDERLIFT BOOM ASSEMBLY
(STANDARD)**

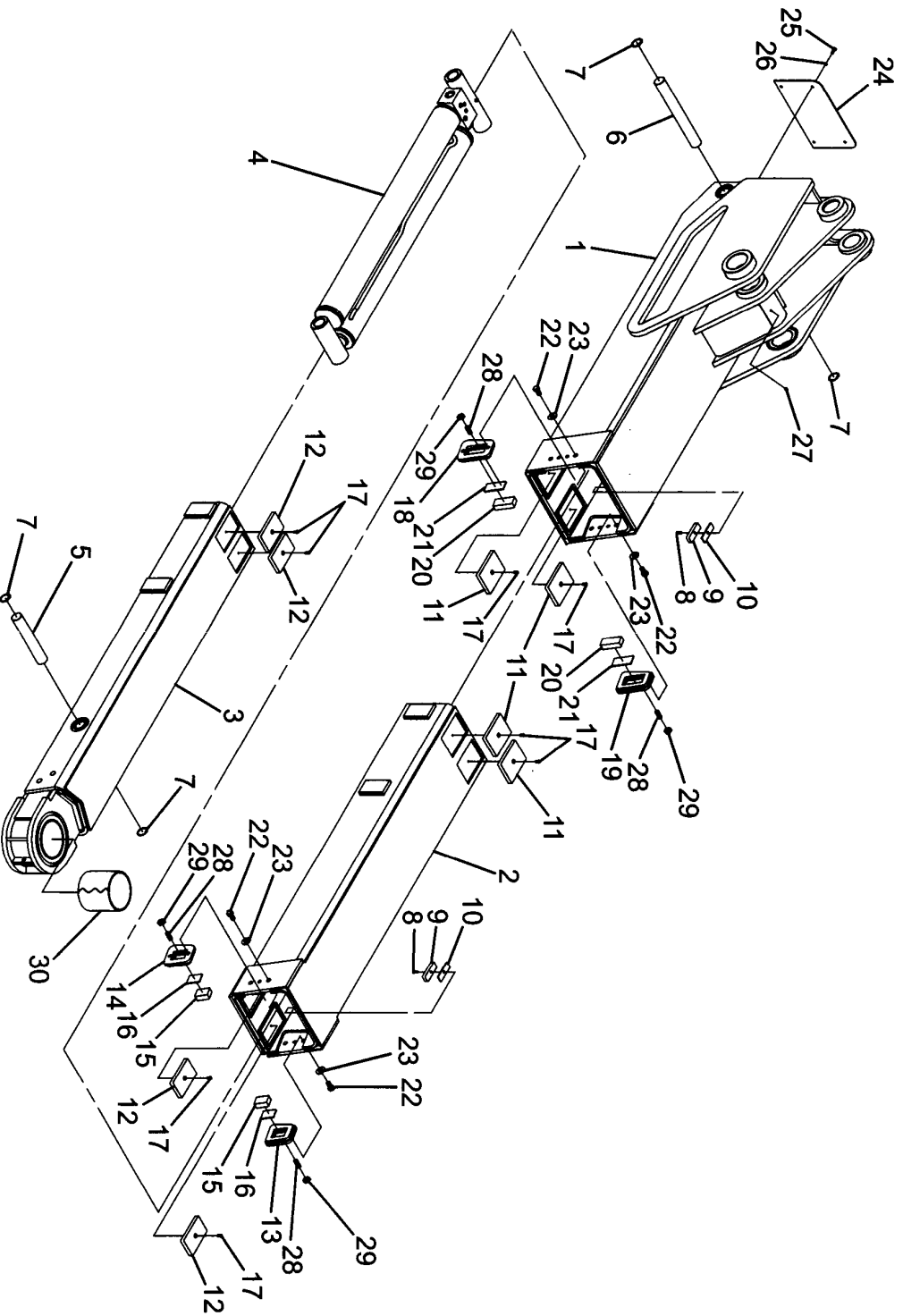
Ref. No.	Part No.	Description	Qty.
1	3170000224	Boom Weld Base	1
2	3170000223	Boom Weld Mid	1
3	3170000222	Boom Weld Fly (Std.)	1
4	7320000034	U/L Extend Cylinder (Std.)	1
5	4691000318	Pin	1
6	4691000316	Pin	1
7	7754000043	Retaining Ring	4
8	7114140518	Capscrew	2
9	4679000159	Pad	2
10	4706002461	Plate	2
11	4679000161	Pad	4
12	4679000158	Pad	4
13	3706000177	Pad Keeper, LH	1
14	3706000178	Pad Keeper, RH	1
15	4679000206	Pad	2
16	4706003144	Plate	2
17	7114140418	Capscrew	8
18	3706000179	Pad Keeper, LH	1
19	3706000180	Pad Keeper, RH	1
20	4679000205	Pad	2
21	4706003143	Plate	2
22	7105180850	Capscrew	8
23	7950180153	Flatwasher	8
24	4706002467	Plate	1
25	7115140650	Capscrew	4
26	7950140000	Lockwasher	4
27	7440030000	Grease Fitting	1
28	7786000008	Set Screw	6
29	7660180230	Jam Nut	6
30	7209000022	Bushing	1



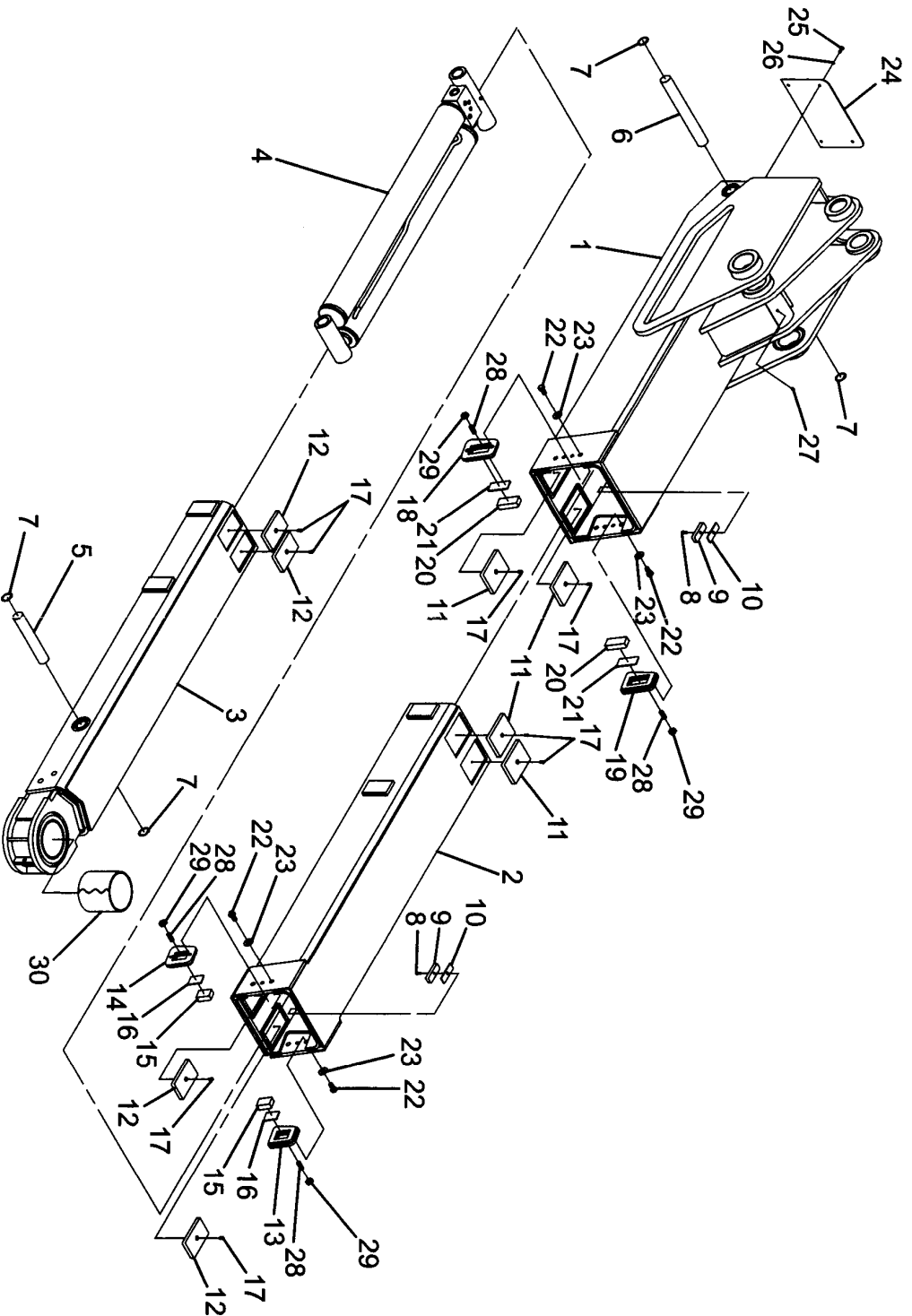
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UNDERLIFT BOOM ASSEMBLY (STANDARD)



UNDERLIFT BOOM ASSEMBLY (OPTIONAL +6.00)



PARTS LIST — UNDERLIFT BOOM ASSEMBLY
(OPTIONAL +6.00)

Ref. No.	Part No.	Description	Qty.
1	3170000224	Boom Weld Base	1
2	3170000223	Boom Weld Mid	1
3	3170000221	Boom Weld Fly	1
4	7320000042	U/L Extend Cylinder	1
5	4691000318	Pin	1
6	4691000316	Pin	1
7	7754000043	Retaining Ring	4
8	7114140518	Capscrew	2
9	4679000159	Pad	2
10	4706002461	Plate	2
11	4679000161	Pad	4
12	4679000158	Pad	4
13	3706000177	Pad Keeper, LH	1
14	3706000178	Pad Keeper, RH	1
15	4679000206	Pad	2
16	4706003144	Plate	2
17	7114140418	Capscrew	8
18	3706000179	Pad Keeper, LH	1
19	3706000180	Pad Keeper, RH	1
20	4679000205	Pad	2
21	4706003143	Plate	2
22	7105180850	Capscrew	8
23	7950180153	Flatwasher	8
24	4706002467	Plate	1
25	7115140650	Capscrew	4
26	7950140000	Lockwasher	4
27	7440030000	Grease Fitting	1
28	7786000008	Set Screw	6
29	7660180230	Jam Nut	6
30	7209000022	Bushing	1



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PARTS LIST — HYDRAULIC SPADE ASSEMBLY

Ref. No.	Part No.	Description	Qty.
1	7115161250	Capscrew	2
2	7950160151	Flatwasher	2
3	7660162601	Locknut	2
4	3691000139	Pin	2
5	4706002468	Plate	2
6	7114140518	Capscrew	8
7	7949000025	Lockwasher	8
8	7950140153	Flatwasher	8
9	7320000006	Spade Cylinder	2
10	3263000068	RH Channel Weldment	1
11	3263000067	LH Channel Weldment	1
12	4691000207	Pin	2
13	7754000033	Retaining Ring	4
14	4691000200	Pin	2
15	7754000008	Retaining Ring	4
16	3691000126	Pin	2
17	7691000019	Lynch Pin	2
18	3706000113	Spade Foot	2

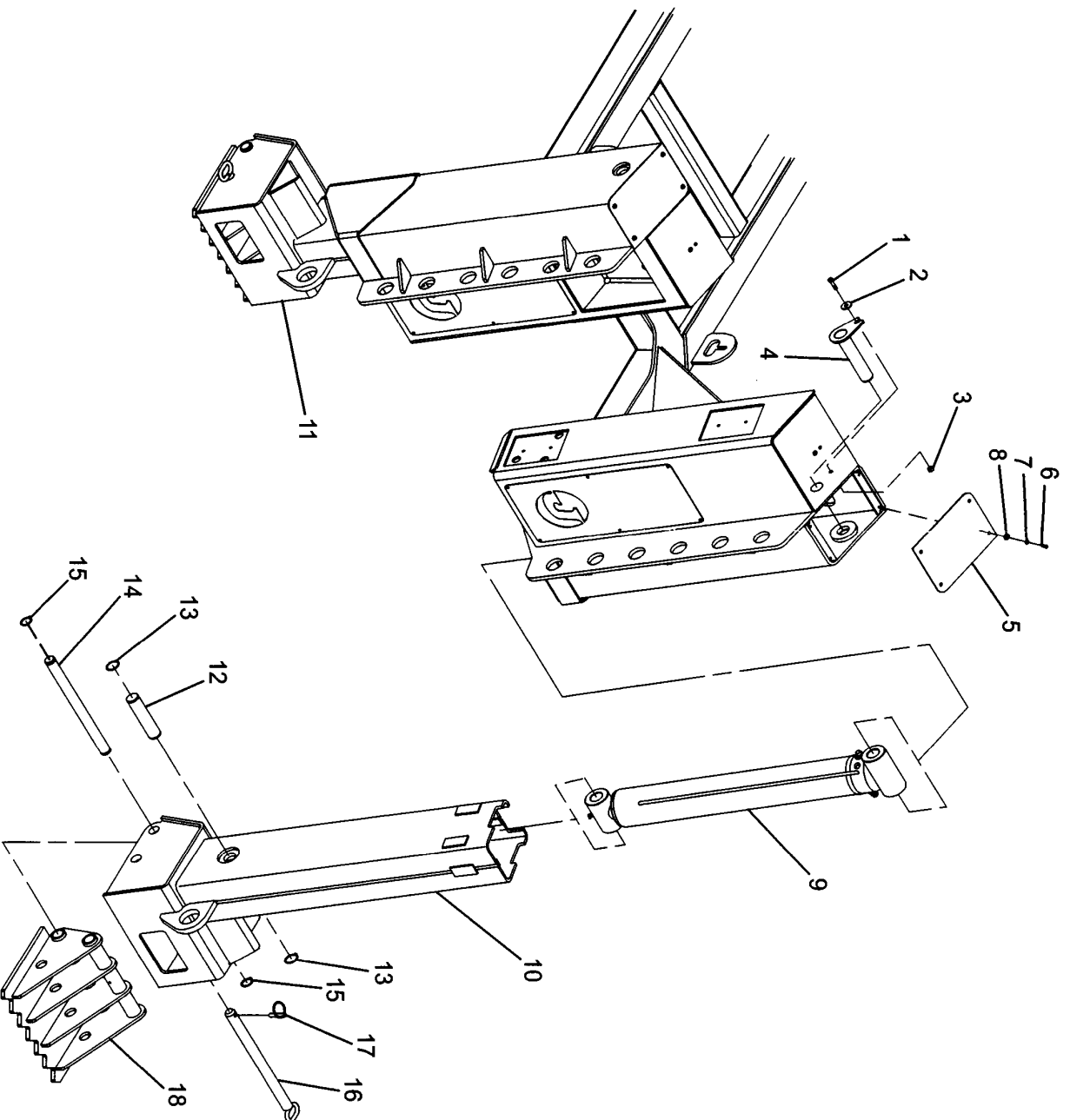


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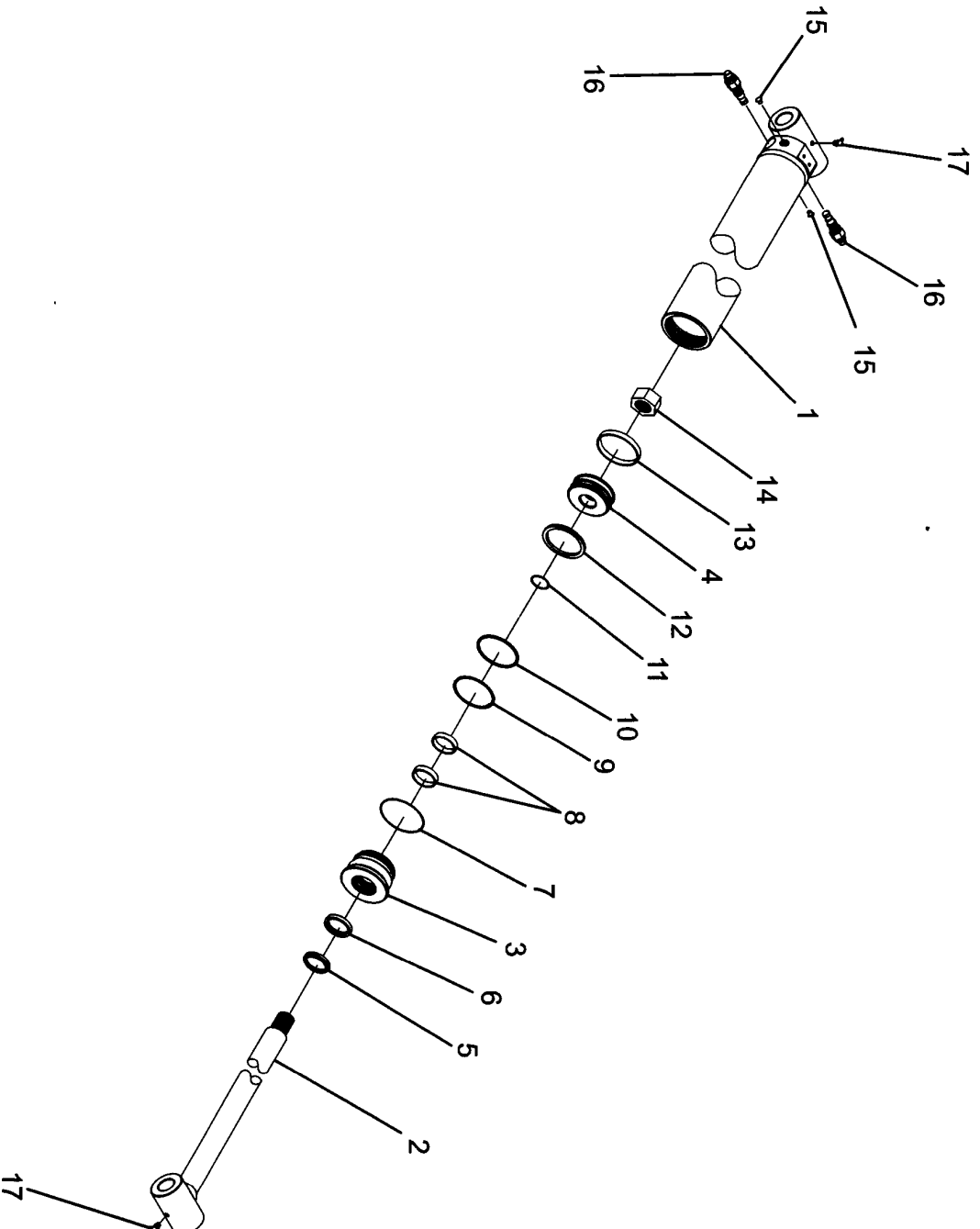
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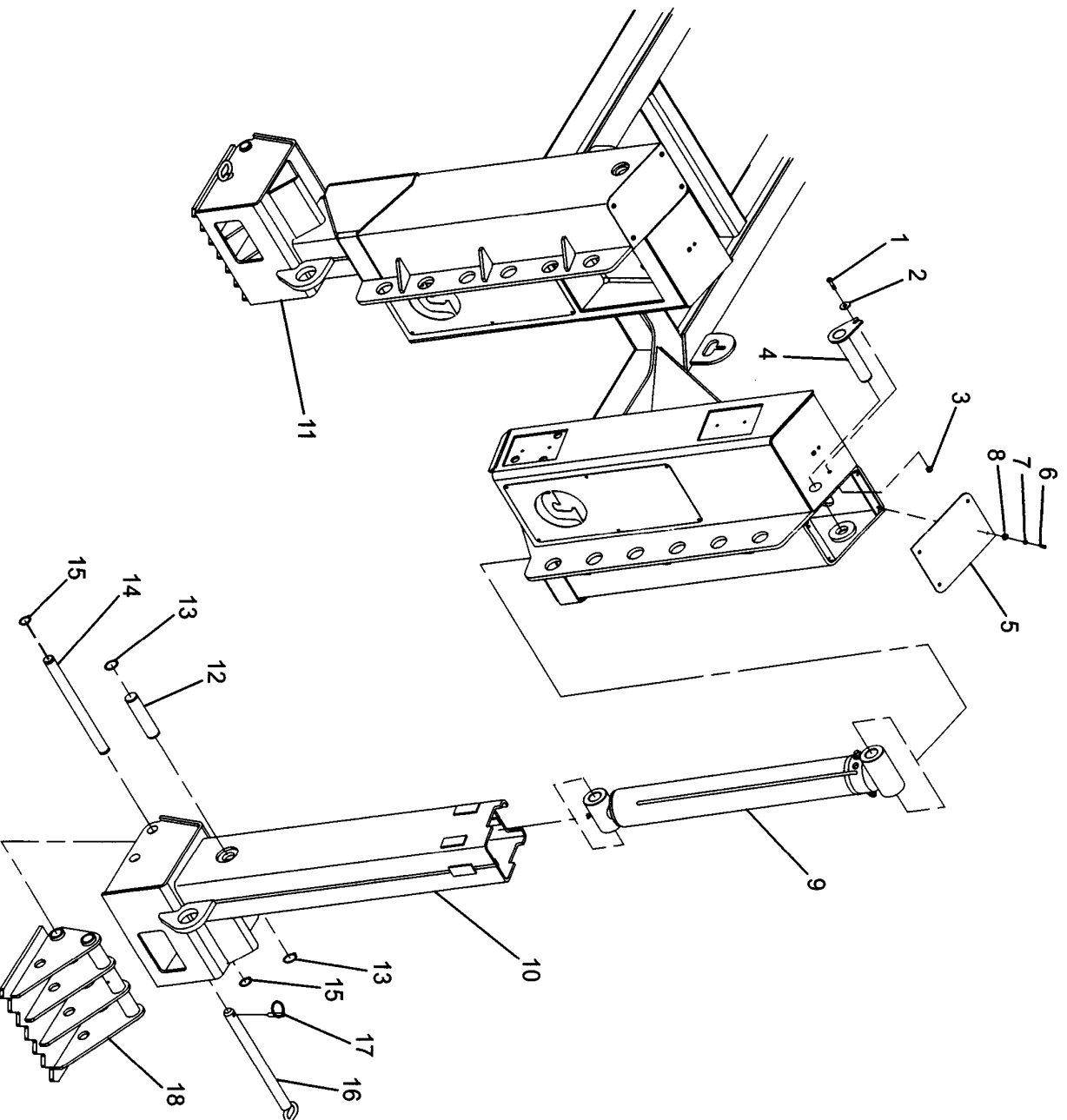
HYDRAULIC SPADE ASSEMBLY



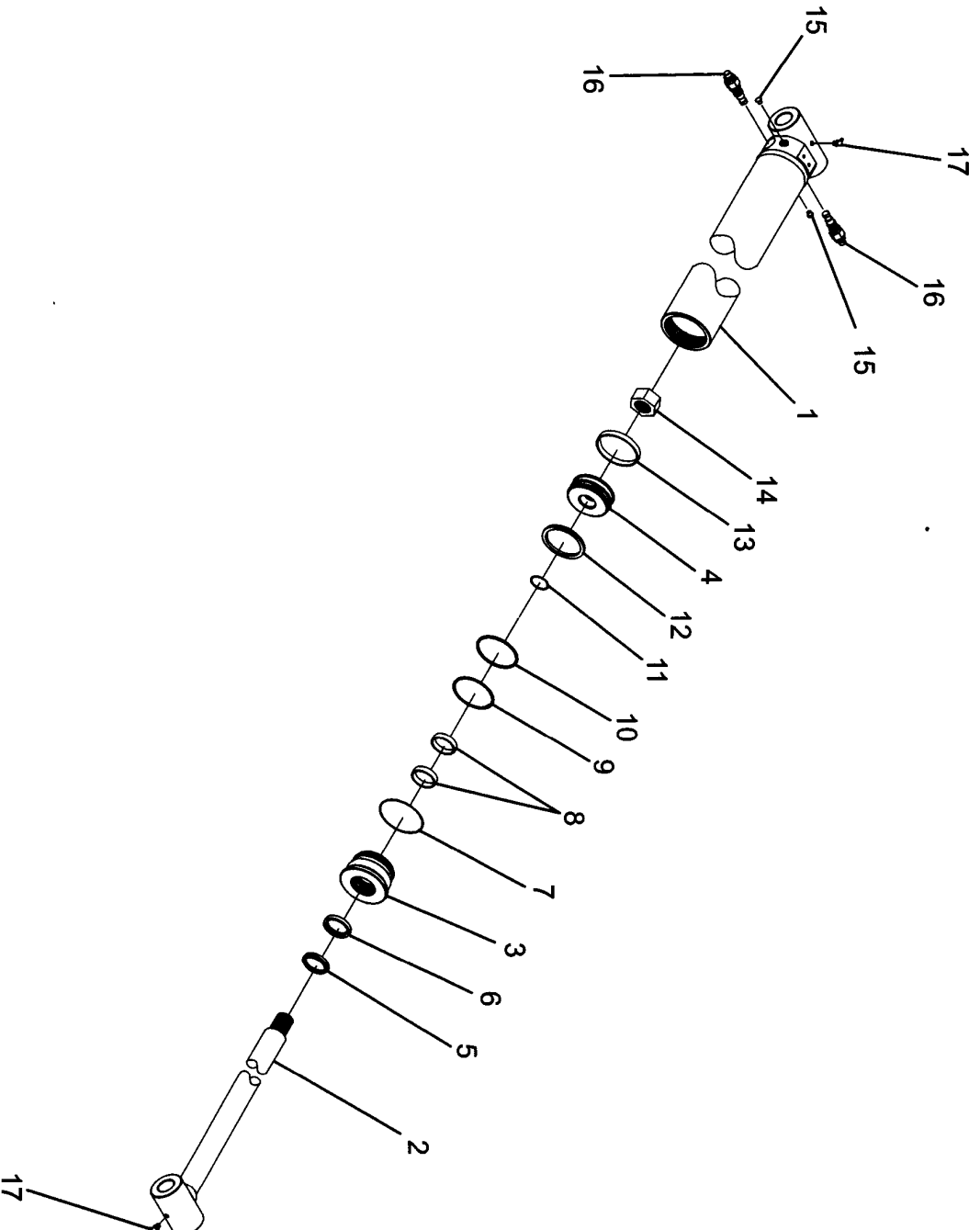
SPADE CYLINDER
7320000006



HYDRAULIC SPADE ASSEMBLY



SPADE CYLINDER
7320000006



PARTS LIST — SPADE CYLINDER
7320000006

Ref. No.	Part No.	Description	Qty.
1	9912250004	Tube Assembly	1
2	9763250009	Rod Assembly	1
3	9553250009	Head	1
4	9698250007	Piston	1
5	9796250080*	Wiper Seal	1
6	9796250069*	Seal	1
7	9796250066*	O Ring Seal	1
8	9754250015*	Wear Ring	2
9	9754250009*	Back-up Ring	1
10	9796250057*	O Ring Seal	1
11	9796250061*	O Ring Seal	1
12	9796250073*	Seal	1
13	9754250014*	Wear Ring	1
14	9661250016	Locknut	1
15	9701250017	Port Plug	2
16	9935250032	Counterbalance Valve	2
17	7440030400	Grease Fitting	2

Available only in Service Kit #7577000167



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PARTS LIST — UNDERLIFT EXTENSION CYLINDER
7320000034

Ref. No.	Part No.	Description	Qty.
1	9763250031	Rod-Tube Assembly	1
2	9763250030	Rod Assembly	1
3	9912250025	Tube Assembly	1
4	9698250023	Piston	1
5	9553250020	Head	1
6	9553250011	Head	1
7	9698250022	Piston	1
8	9796250112*	Wiper Seal	2
9	9796250069*	Seal	2
10	9796250111*	O Ring Seal	2
11	9754250042*	Back-up Ring	2
12	9796250109*	O Ring Seal	2
13	9754250015*	Wear Ring	4
14	9796250133*	O Ring Seal	1
15	9754250044*	Wear Ring	4
16	9796250112*	Seal	2
17	9661250020	Locknut	1
18	9796250135*	O Ring Seal	1
19	9007250005	Tubing Adapter	1
20	9796250137*	O Ring Seal	2
21	9935250035	Check Valve	2
22	7440030400	Grease Fitting	1
23	9701250017	Port Plug	2
24	9786250016	Setscrew	4
25	7440030000	Grease Fitting	1

Available only in Service Kit #7577250297

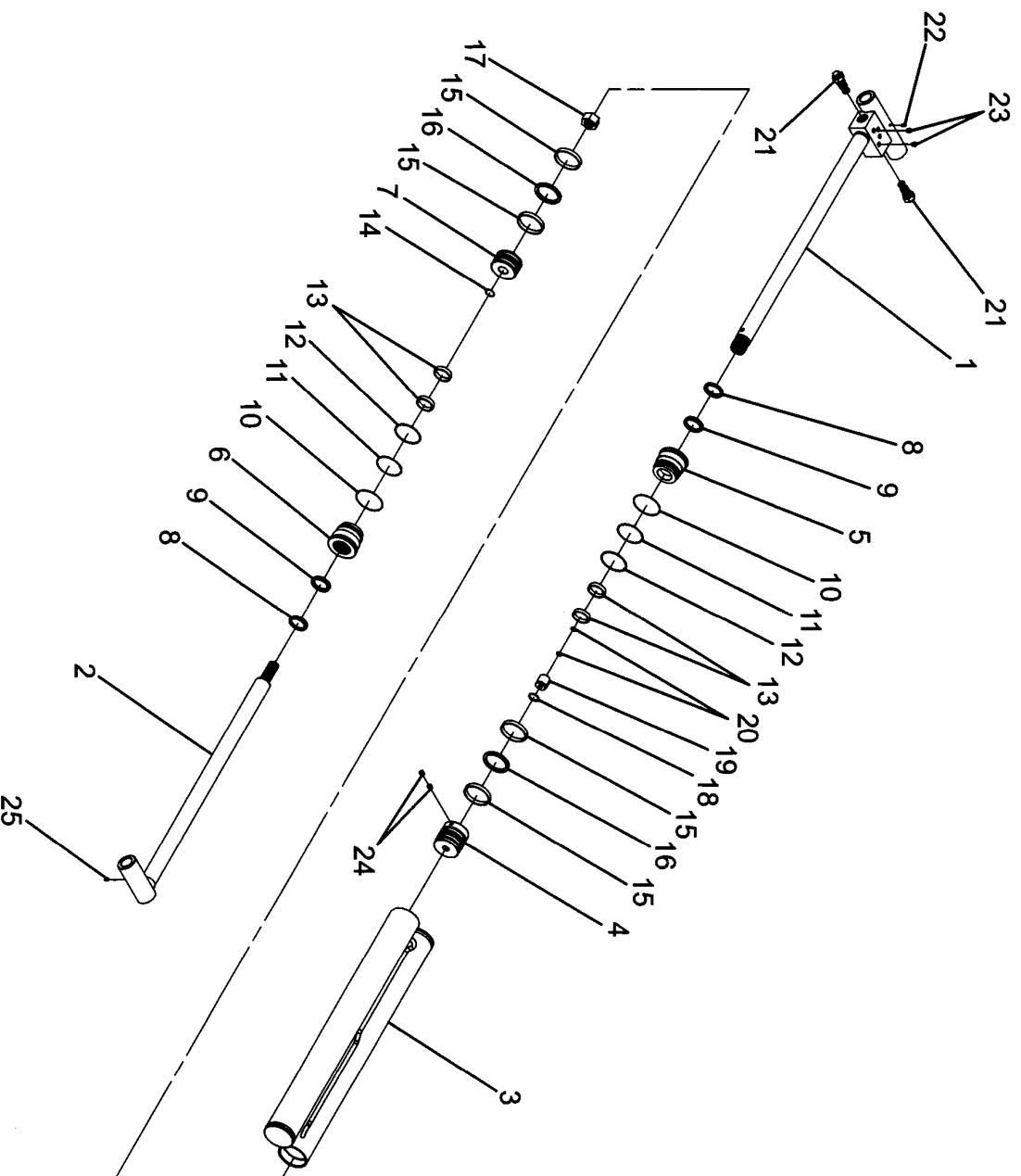


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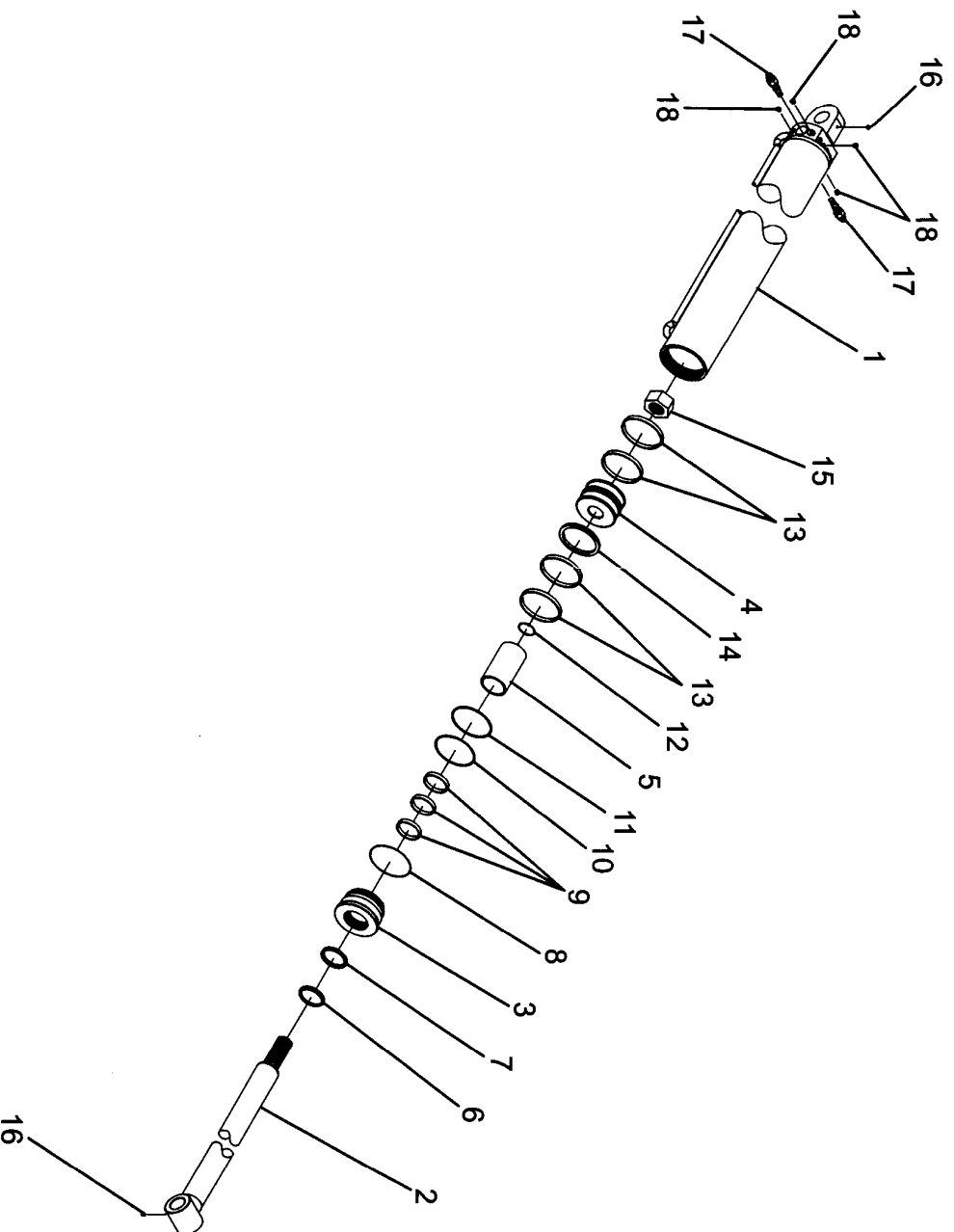
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UNDERLIFT EXTENSION CYLINDER
7320000034



UNDERLIFT LIFT CYLINDER
7320000035



PARTS LIST — UNDERLIFT LIFT CYLINDER
7320000035

Ref. No.	Part No.	Description	Qty.
1	9912250023	Tube Assembly	1
2	9763250029	Rod Assembly	1
3	9553250018	Head	1
4	9698250020	Piston	1
5	9831250021	Spacer	1
6	9796250114*	Wiper Seal	1
7	9796250071*	Seal	1
8	9796250149*	O Ring Seal	1
9	9754250018*	Wear Ring	3
10	9754250054*	Back-up Ring	1
11	9796250151*	O Ring Seal	1
12	9796250150*	O Ring Seal	1
13	9754250055*	Wear Ring	4
14	9796250152*	Seal	1
15	9661250027	Locknut	1
16	7440030400	Grease Fitting	2
17	9935250032	Counterbalance Valve	2
18	9701250017	Port Plug	4

Available only in Service Kit #7577250296



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PARTS LIST — UNDERLIFT TILT CYLINDER
7320000036

Ref. No.	Part No.	Description	Qty.
1	9912250024	Tube Assembly	1
2	9763250018	Rod Assembly	1
3	9553250019	Head	1
4	9698250021	Piston	1
5	9796250114*	Wiper Seal	1
6	9796250071*	Seal	1
7	9754250018*	Wear Ring	3
8	9754250010*	Back-up Ring	1
9	9796250064*	O Ring Seal	1
10	9796250062*	O Ring Seal	1
11	9754250056*	Wear Ring	2
12	9796250074*	Seal	1
13	9661250017	Locknut	1
14	9935250032	Counterbalance Valve	1
15	7440030000	Grease Fitting	2
16	9701250017	Port Plug	3
17	9786250008	Setscrew	2

Available only in Service Kit #7577250295

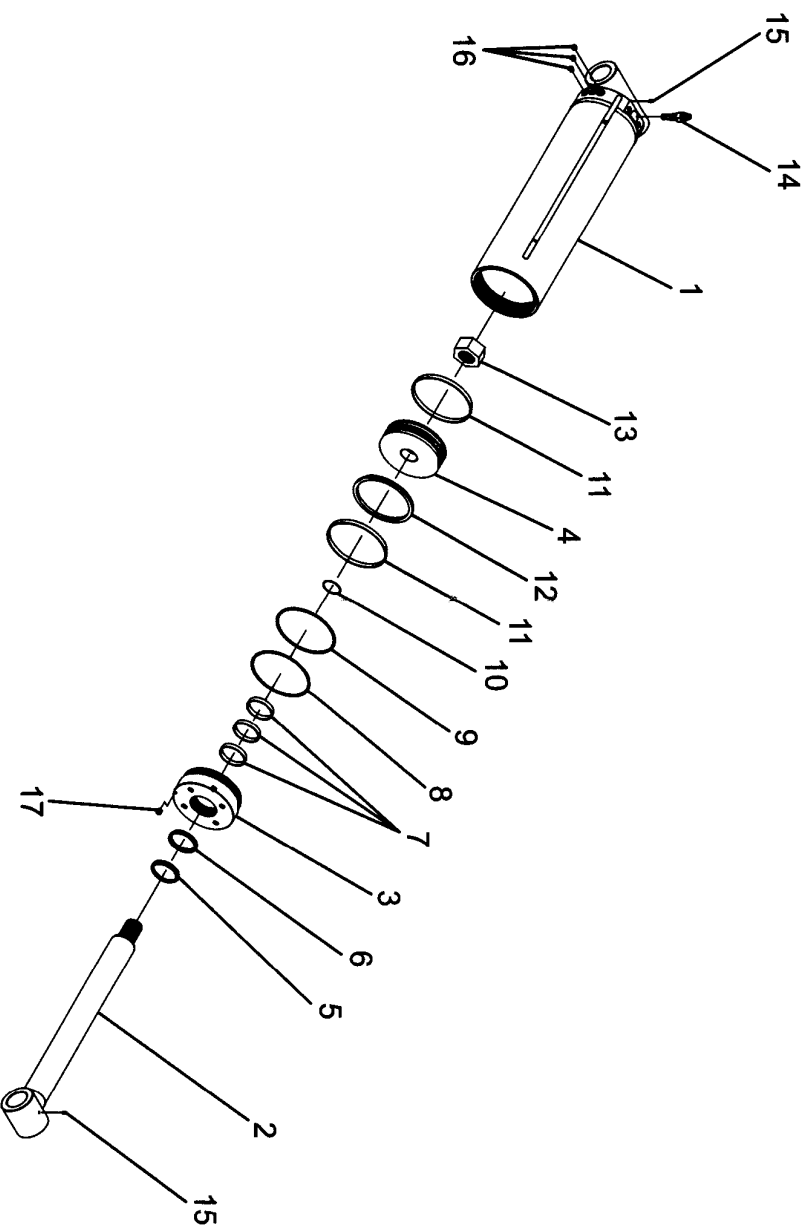


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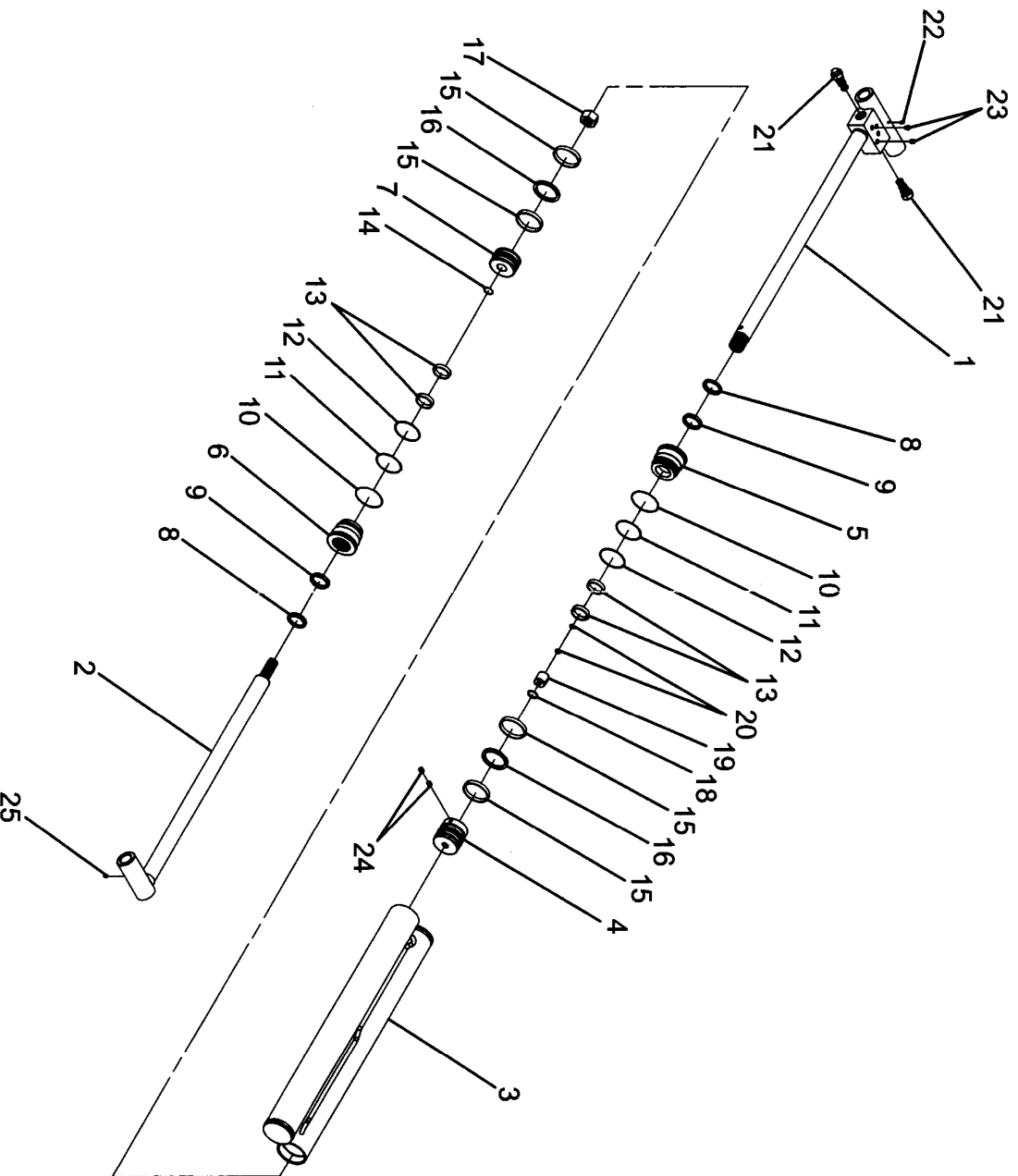
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UNDERLIFT TILT CYLINDER
7320000036



UNDERLIFT EXTENSION CYLINDER
7320000042
(OPT. +6.00)



PARTS LIST — UNDERLIFT EXTENSION CYLINDER**7320000042****(OPT. +6.00)**

Ref. No.	Part No.	Description	Qty.
1	9763250025	Rod-Tube Assembly	1
2	9763250026	Rod Assembly	1
3	9912250021	Tube Assembly	1
4	9698250019	Piston	1
5	9553250016	Head	1
6	9553250015	Head	1
7	9698250018	Piston	1
8	9796250116*	Wiper Seal	2
9	9796250069*	Seal	2
10	9796250136*	O Ring Seal	2
11	9754250048*	Back-up Ring	2
12	9796250134*	O Ring Seal	2
13	9754250015*	Wear Ring	4
14	9796250133*	O Ring Seal	1
15	9754250049*	Wear Ring	4
16	9796250138*	Seal	2
17	9661250020	Locknut	1
18	9796250135*	O Ring Seal	1
19	9007250005	Tubing Adapter	1
20	9796250137*	O Ring Seal	2
21	9935250035	Check Valve	2
22	7440030400	Grease Fitting	1
23	9701250017	Port Plug	2
24	9786250016	Setscrew	4
25	7440030000	Grease Fitting	1

Available only in Service Kit #7577250271



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BODY PARTS

86" Body	C-2
146" Body	C-18
Tunnel Toolbox – 24"	C-34
Tunnel Toolbox – 49"	C-36
Tunnel Toolbox with Drawer – 49"	C-41
49" Tunnel Toolbox Drawer Insert	C-42
Stand-Alone Toolbox – 24"	C-47
Stand-Alone Toolbox – 49"	C-48
3/4 Height Tunnel Toolbox – 24"	C-52
3/4 Height Stand-Alone Toolbox – 24"	C-54
Headboard/Light Pylon	C-57
Body Lights – 86"	C-58
Body Lights – 148"	C-62

PARTS LIST — 86" BODY - DOOR AND HARDWARE ASSEMBLY

Ref. No.	Part No.	Description	Qty.
1	4679000117	Rubber Pad	2
2	4679000119	Rubber Pad	2
3	4679000131	Rubber Pad	2
4	7660102601	Locknut	40
5	7178000023	Bracket	8
6	7114100618	Capscrew	16
7	4062000174	Bar	4
8	7843000022	Spring	8
9	7660152601	Locknut	8
10	7865000001	Ball Stud	8
11	7115140650	Capscrew	16
12	7950140161	Flatwasher	16
13	7114140518	Capscrew	24
14	7949000025	Lockwasher	24
15	3555000007	Hinge Weldment	4
16	7660142601	Locknut	16
17	4632000013	Door Seal	4
18	4686000074	Horizontal Door	4
19	3555000008	Hinge Weldment	4
20	7585000004	Latch Striker	4
21	7115161050	Capscrew	8
22	7950160161	Flatwasher	16
23	7660162601	Locknut	8
24	7661000021	Locknut	4
25	4178000225	Bracket	4
26	7950100151	Flatwasher	24
27	7796000038	Gasket	4
28	7595000005	Rotary Latch	4
29	7790101276	Pan Head Screw	16

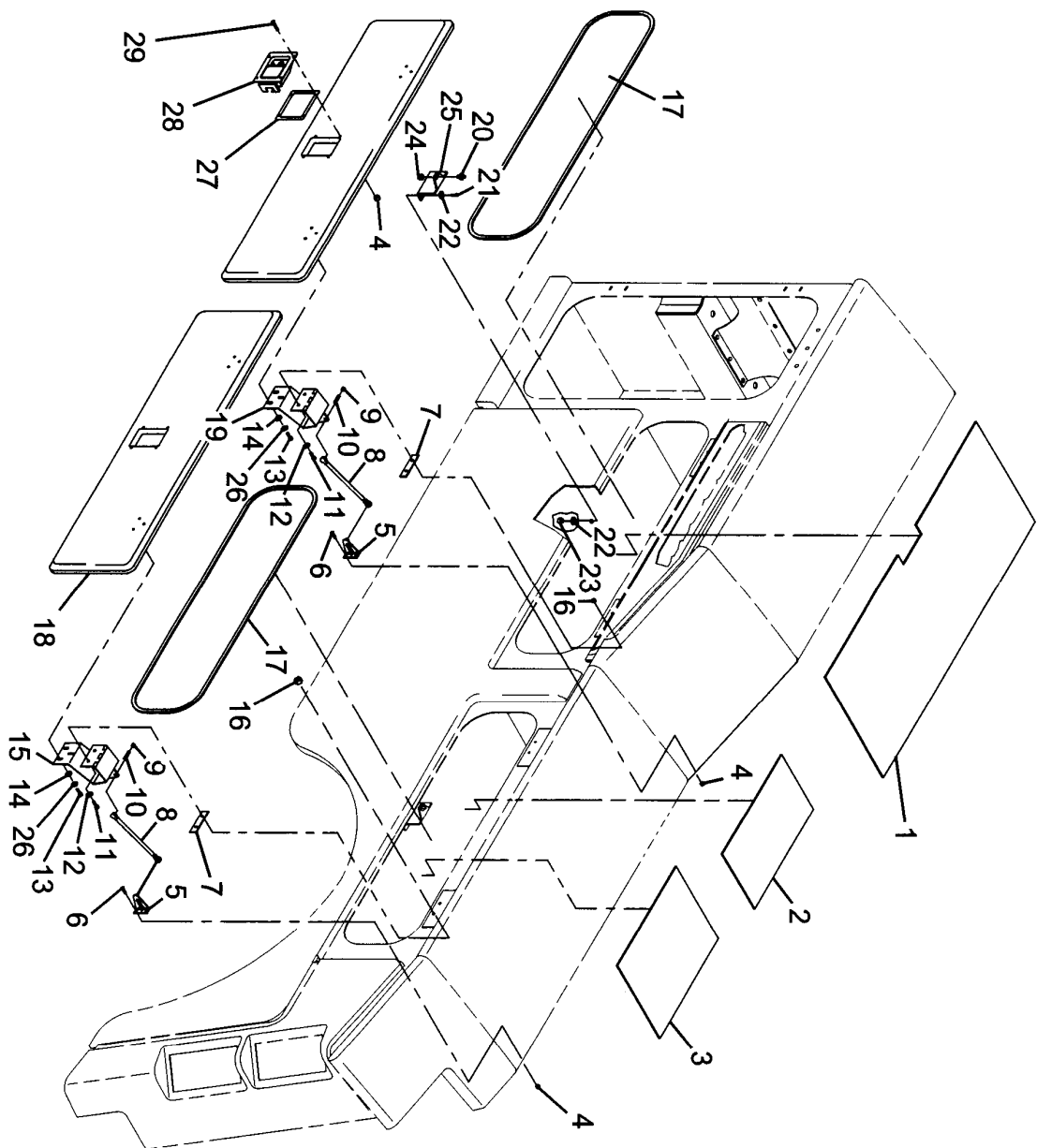


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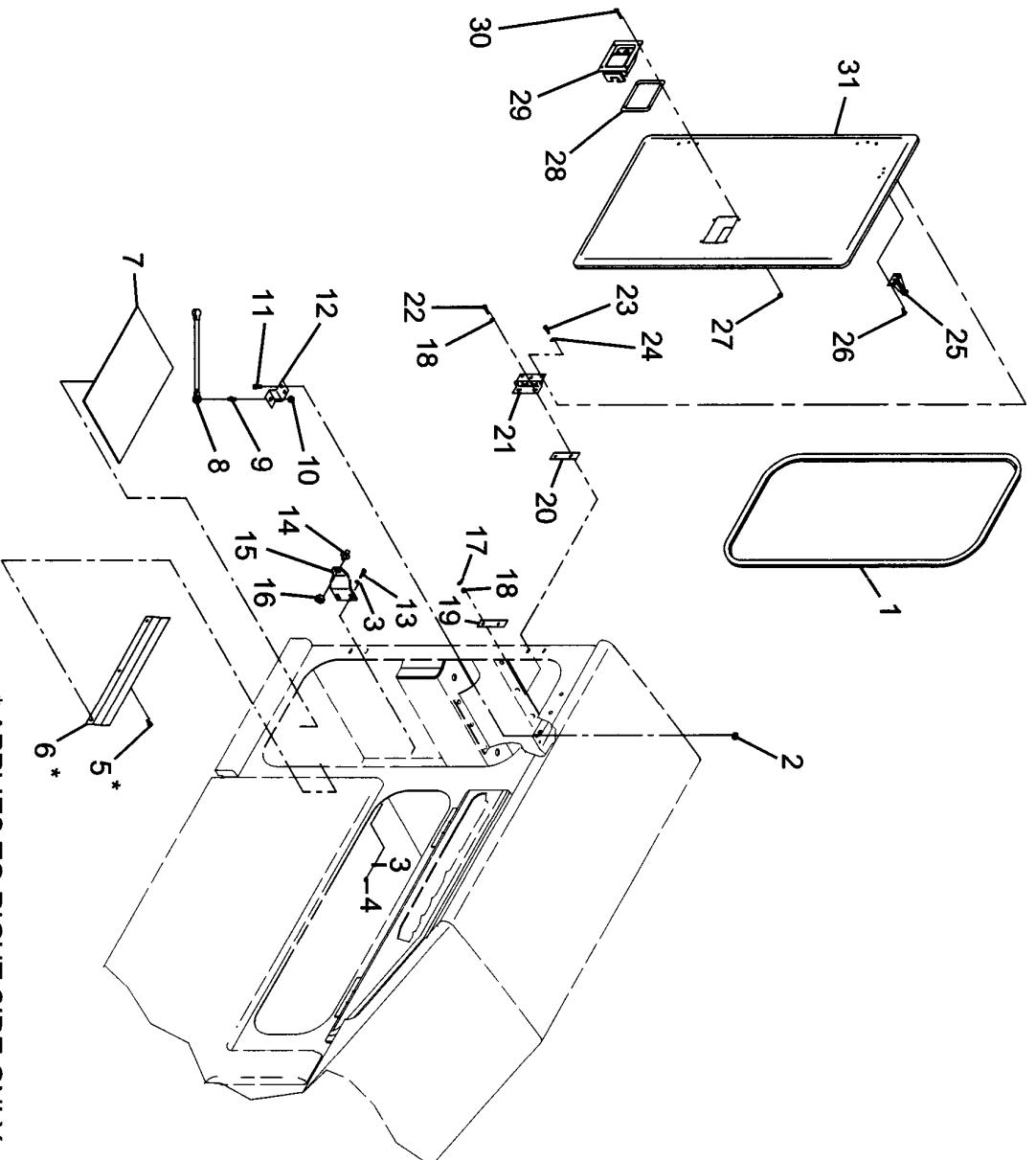
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BODY - DOOR AND HARDWARE ASSEMBLY



86" BODY - DOOR AND HARDWARE ASSEMBLY



* APPLIES TO RIGHT SIDE ONLY

PARTS LIST — 86" BODY - DOOR AND HARDWARE ASSEMBLY

Ref. No.	Part No.	Description	Qty.
1	4632000012	Door Seal	2
2	7660152601	Locknut	4
3	7650160141	Flatwasher	6
4	7660162601	Locknut	4
5	7790141251(B)	Hex Head Screw	3
6	4811000135(B)	Sheet	1
7	4679000118(A)	Rubber Pad	1
	4679000114(B)	Rubber Pad	1
8	7843000020	Spring	2
9	7865000001	Ball Stud	2
10	7660152601	Locknut	2
11	7115150650	Capscrew	4
12	4178000240	Bracket	2
13	7115161050	Capscrew	4
14	7585000004	Latch Striker	2
15	4178000225	Bracket	2
16	7661000021	Locknut	2
17	7660142601	Locknut	8
18	7950140161	Flatwasher	16
19	4062000173	Bar	4
20	4812000052	Shim	4
21	7555000002	Hinge	4
22	7114140818	Capscrew	8
23	7114140418	Capscrew	12
24	7949000025	Washer	12
25	7178000023	Ball Stud Bracket	2
26	7114100418	Capscrew	6
27	7660102601	Nut	8
28	7796000038	Gasket	2
29	7595000005	Rotary Latch	2
30	7790101276	Capscrew	8
31	4686000072(A)	Panel Door - LH	1
	4686000073(B)	Panel Door - RH	1

A - Applies to Left Side Only.

B - applies to Right Side Only.



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PARTS LIST — 86" BODY FLARE INSTALLATION TANDEM AXLE

Ref. No.	Part No.	Description	Qty.
1	7002000187	Rubber Fender Flare	2 Pair
2	4415000019	Wheelwell Flare - LH 52" Axle Spread	1
	4415000030	Wheelwell Flare - LH 58.5" Axle Spread	
	4415000017	Wheelwell Flare - RH 52" Axle Spread	1
	4415000028	Wheelwell Flare - RH 58.5" Axle Spread	
3	7660142601	Locknut	*
4	7950140151	Flatwasher	*
5	7111141050	Capscrew	10
6	7415000010	Flare Junction Panel - 52" Axle Spread	2
	7415000011	Flare Junction Panel - 58.5 Axle Spread	
7	4636000032	Rubber Mount	2
8	7949000022	Fender Washer	2
9	7790142051	Capscrew	2
10	4415000018	Wheelwell Flare - LH 52" Axle Spread	1
	4415000029	Wheelwell Flare - LH 58.5" Axle Spread	
	4415000016	Wheelwell Flare - RH 52" Axle Spread	1
	4415000027	Wheelwell Flare - RH 58.5" Axle Spread	
11	4415000020	22.50" Body Flare	2
	4415000024	44.50" Body Flare	
	4415000025	68.75" Body Flare	
	4415000026	93.00" Body Flare	
12	7415000013	Cap - RH	1
	7415000014	Cap - LH	1
13	7115141850	Capscrew	*

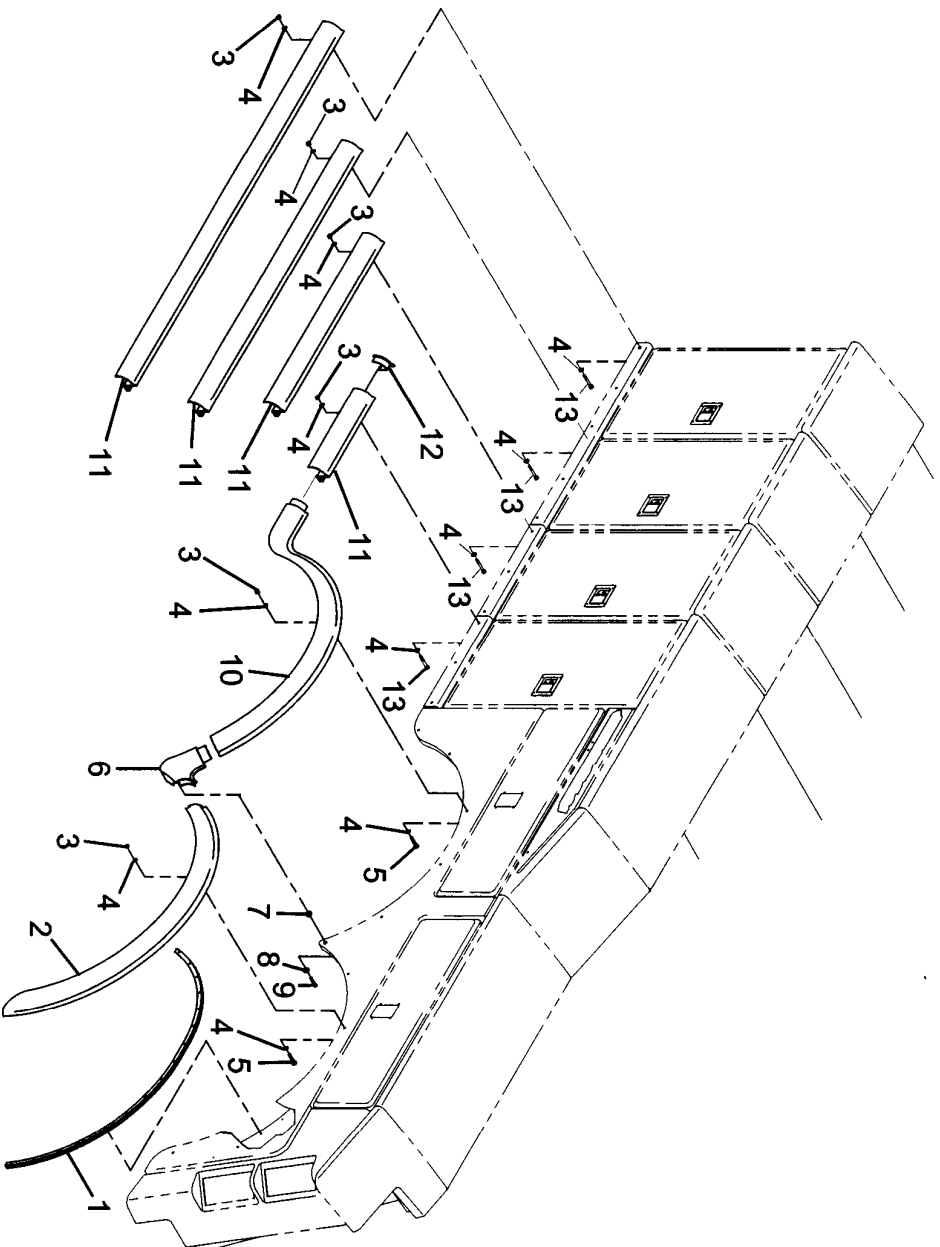
*Quantity varies according to Body Length



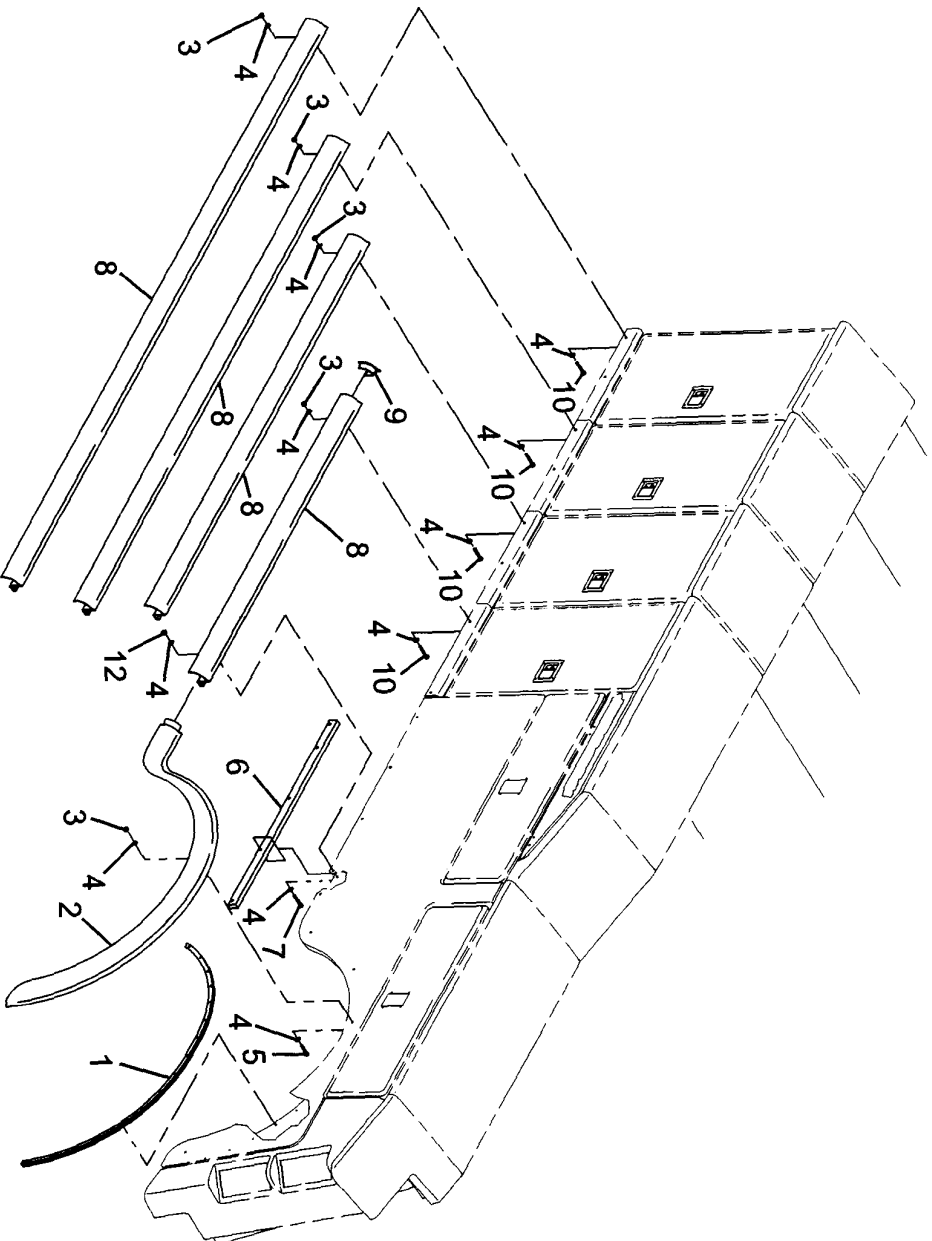
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86" BODY FLARE INSTALLATION TANDEM AXLE



86" BODY FLARE INSTALLATION SINGLE AXLE



PARTS LIST — 86" BODY FLARE INSTALLATION SINGLE AXLE

Ref. No.	Part No.	Description	Qty.
1	7002000187	Rubber Fender Flare	1 Pair
2	7415000008	Wheelwell Flare - LH	1
	7415000007	Wheelwell Flare - RH	1
3	7660142601	Locknut	*
4	7950140151	Flatwasher	*
5	7111141050	Capscrew	10
6	4831000068	Spacer	2
7	7115142050	Capscrew	10
8	4415000015	72.25" Body Flare	2
	4415000021	96.50" Body Flare	
	4415000022	120.75" Body Flare	
	4415000023	145.00" Body Flare	
9	7415000013	Cap - RH	1
	7415000014	Cap - LH	1
10	7115141850	Capscrew	*

*Quantity varies according to body length



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**PARTS LIST — 86" BODY, MUDFLAP AND
TOOLHOLDERS INSTALLATION**

Ref. No.	Part No.	Description	Qty.
1	4017000719	Angle	2
2	7118151250	Capscrew	12
3	7950150151	Flatwasher	40
4	7638000007	Mud Flap	2
5	4706001815	Plate	2
6	7660152601	Locknut	20
7	4178000242	Bracket	2
8	7115150850	Capscrew	8
9	7115202850	Capscrew	4
10	7950200161	Flatwasher	4
11	7949000019	Snub Head Washer	4
12	7636000008	Mount	4
13	7949000020	Snub Tail Washer	4
14	7660200001	Nut	4
15	3178000222	Basetool Holder	1
16	7115160850	Capscrew	16
17	7660160001	Nut	19
18	3178000221	Intermediate Tool Holder	2
19	3178000220	Top Tool Holder	1
20	7115161050	Capscrew	3
21	4812000047	Shim	1
22	7115223250	Capscrew	4
23	7950220161	Flatwasher	4
24	7949000017	Washer	4
25	7636000007	Mount	4
26	7949000018	Washer	4
27	7660220001	Nut	4

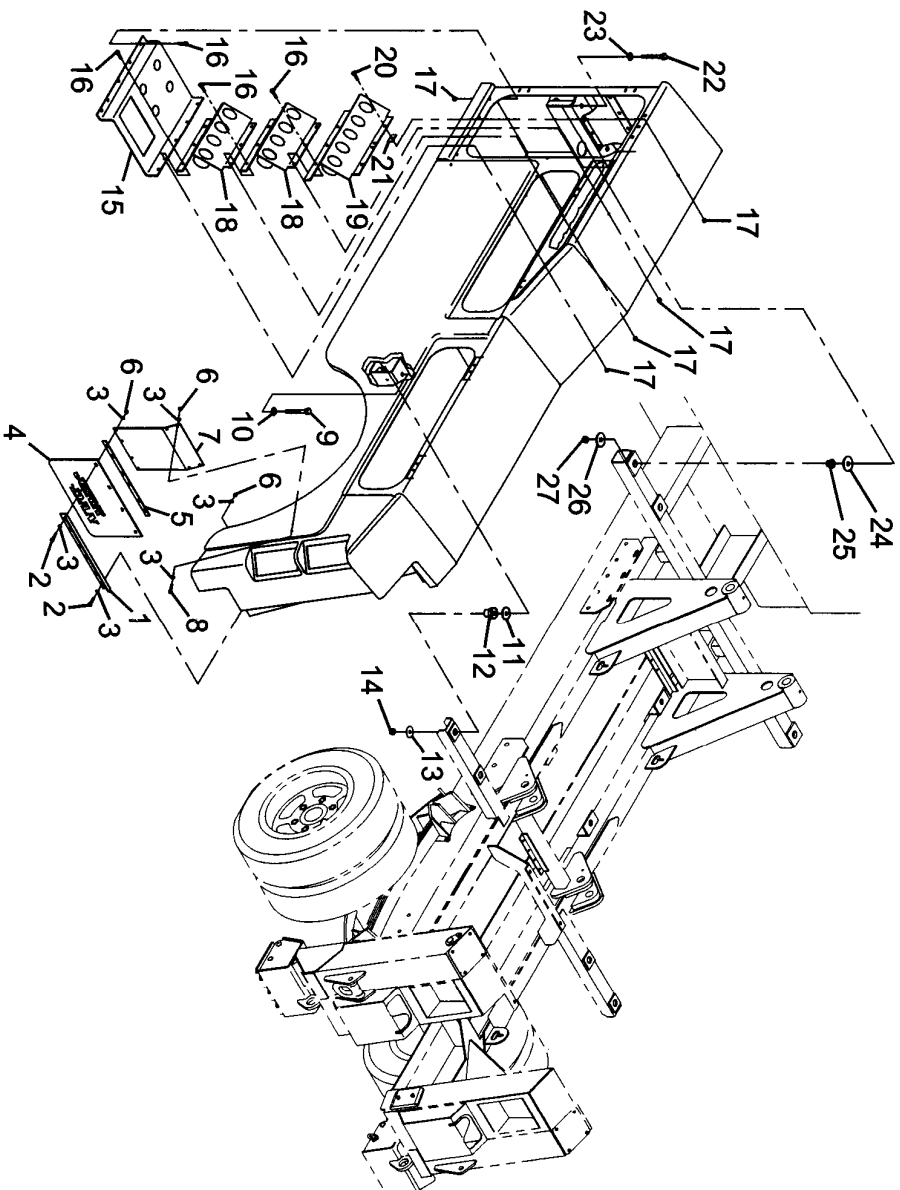


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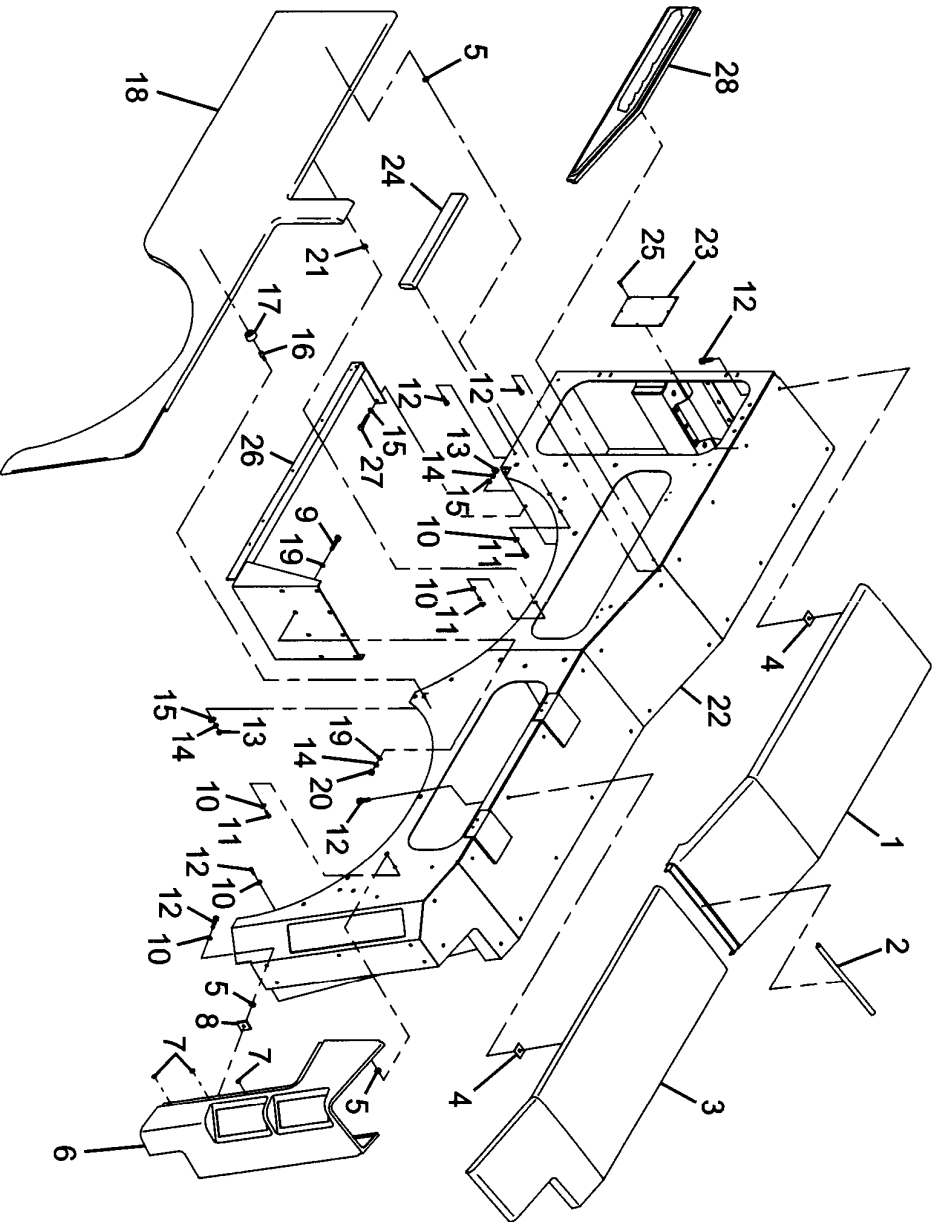
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86" BODY, MUDDLAP AND TOOLHOLDERS INSTALLATION



86" BODY PANEL - 1 AXLE



PARTS LIST – 86" BODY PANEL - 1 AXLE

Ref. No.	Part No.	Description	Qty.
1	7686000009	Front Cap Panel - RH	1
	7686000010	Front Cap Panel - LH	1
2	7632046022	Moulding	2
3	7686000017	Rear Cap Panel - RH	1
	7686000018	Rear Cap Panel - LH	1
4	4679000120	Rubber Pad	46
5	4636000031	Rubber Mount	40
6	7686000013	Tail Light Panel - RH	1
	7686000014	Tail Light Panel - LH	1
7	7189000015	Bumper	6
8	4679000121	.25 Rubber Pad	10
	4679000122	.38 Rubber Pad	10
9	7115161250	Capscrew	16
10	7949000022	Fender Washer	58
11	7790142051	Hex Hd Screw	54
12	7790141251	Hex Hd Screw	56
13	7660160001	Nut	10
14	7950160000	Lockwasher	26
15	7950160161	Flatwasher	14
16	4691000245	Pin	6
17	4636000033	Rubber Mount	6
18	4686000076	Wheel Well Panel - RH	1
	4686000075	Wheel Well Panel - LH	1
19	7950160151	Flatwasher	32
20	7660160000	Nut	16
21	4636000032	Rubber Mount	14
22	3503080003	Body Assy - RH	1
	3503080002	Body Assy - LH	1
23	4811000091	Sheet	2
24	7686000019	Filler Strip Panel	2
25	7790100856	Screw	16
26	3017000027	Bracket Weldment - RH	1
	3017000026	Bracket Weldment - LH	1
27	7115161050	Capscrew	4
28	7686000015	Logo Panel - RH	1
	7686000016	Logo Panel - LH	1



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PARTS LIST - 86" BODY PANEL - 2 AXLES

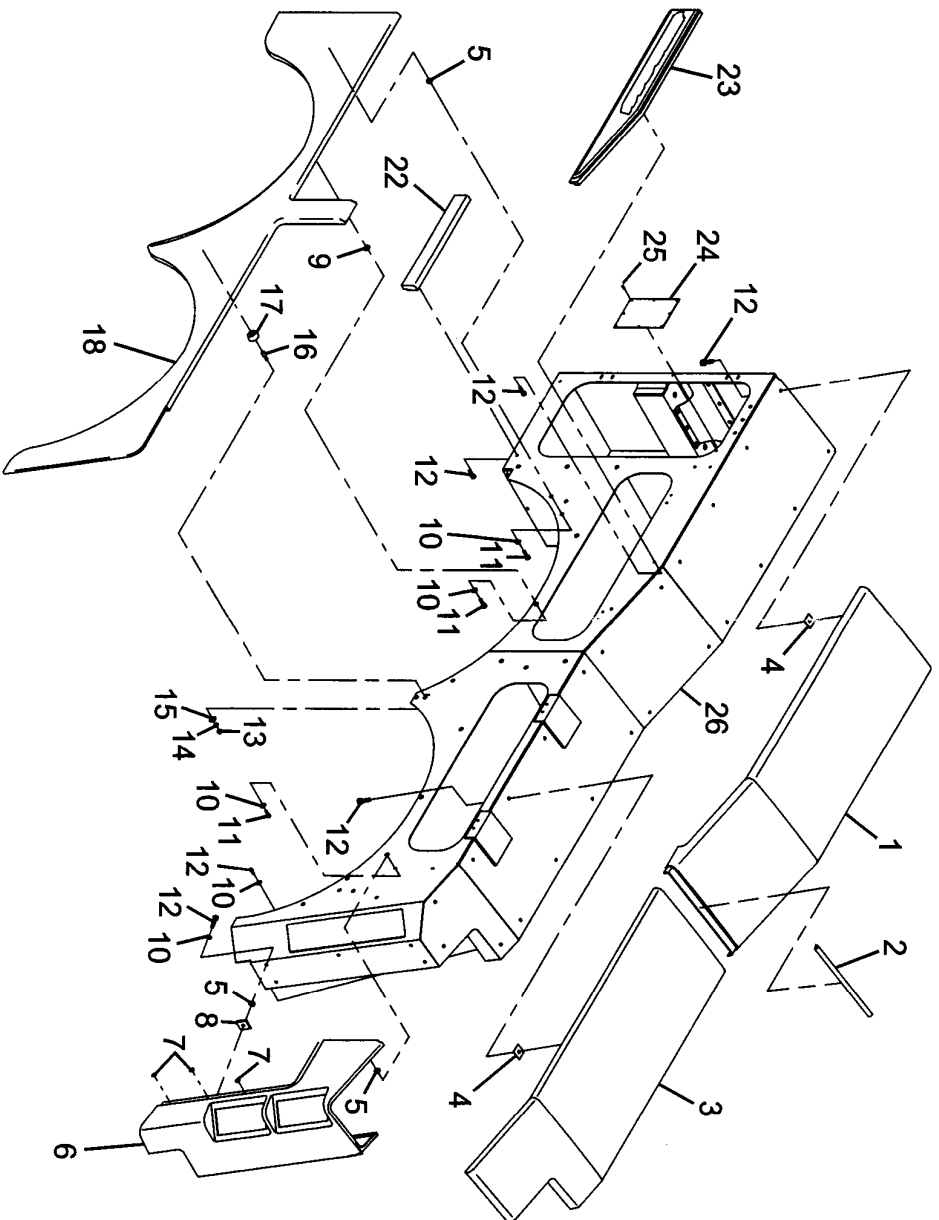
Ref. No.	Part No.	Description	Qty.
1	7686000009	Front Cap Panel - RH	1
	7686000010	Front Cap Panel - LH	1
2	7632046022	Moulding	2
3	7686000017	Rear Cap Panel - RH	1
	7686000018	Rear Cap Panel - LH	1
4	4679000120	Rubber Pad	46
5	4636000031	Rubber Mount	40
6	7686000013	Tail Light Panel - RH	1
	7686000014	Tail Light Panel - LH	1
7	7189000015	Bumper	6
8	4679000121	.25 Rubber Pad	10
	4679000122	.38 Rubber Pad	10
9	4636000032	Rubber Mount	14
10	7949000022	Fender Washer	58
11	7790142051	Hex Hd Screw	54
12	7790141251	Hex Hd Screw	54
13	7660160001	Nut	6
14	7950160000	Lockwasher	6
15	7950160161	Flatwasher	6
16	4691000245	Pin	6
17	4636000033	Rubber Mount	6
18	4686000078	Wheel Well Panel - RH 52" Axle Spread	1
	4686000079	Wheel Well Panel - RH 58.5" Axle Spread	
	4686000077	Wheel Well Panel - LH 52" Axle Spread	1
	7686000080	Wheel Well Panel - LH 58.5" Axle Spread	
22	7686000019	Filler Strip Panel	2
23	7686000015	Logo Panel - RH	1
	7686000016	Logo panel - LH	1
24	4811000091	Sheet	2
25	7790100856	Screw	16
26	3503080003	Body Assy - RH	1
	3503080002	Body Assy - LH	1



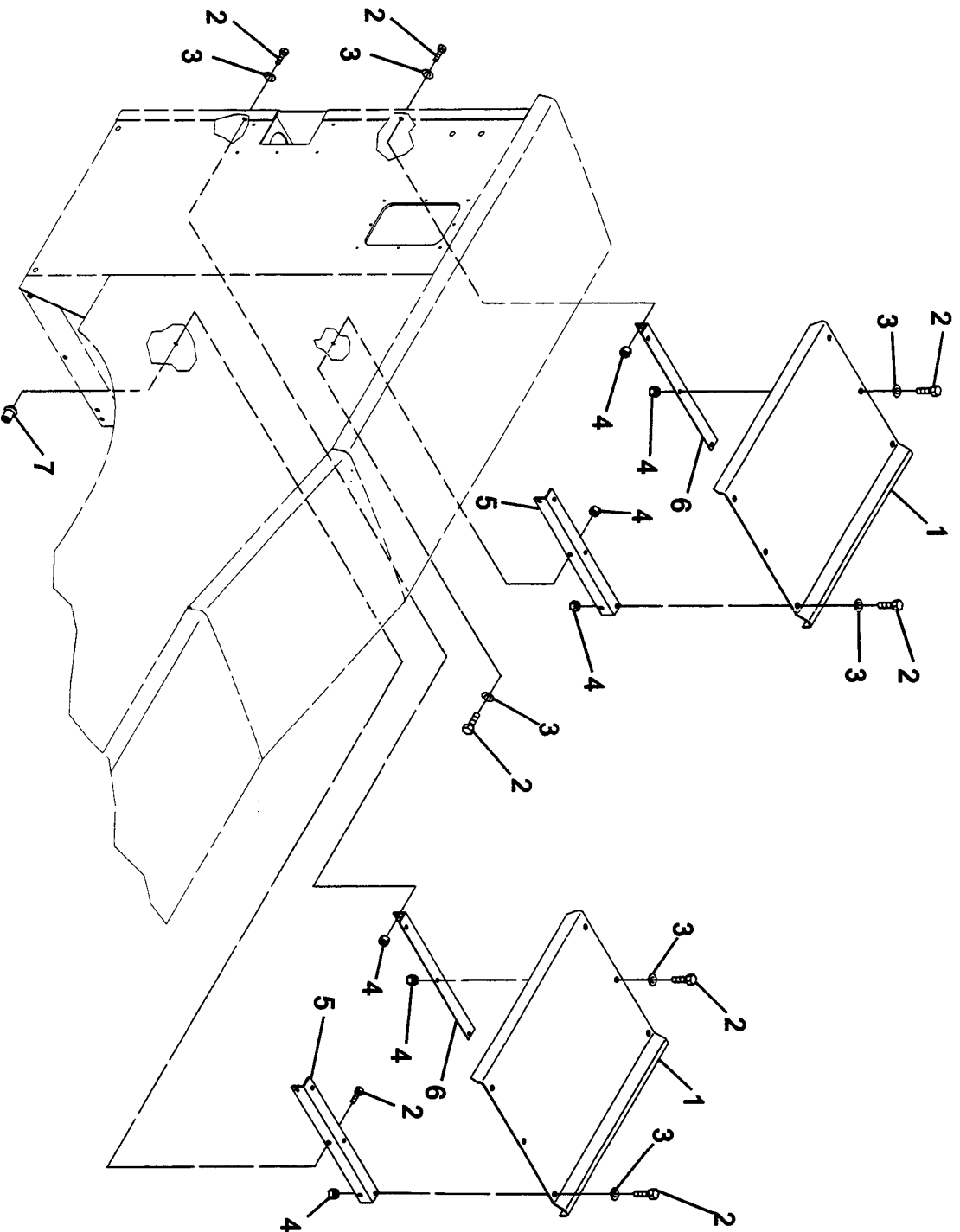
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86" BODY PANEL - 2 AXLES



BRACKET ASSEMBLY



PARTS – BRACKET ASSEMBLY

Ref. No.	Part No.	Description	Qty.
1	4811000142	Sheet	2
2	7115160850	Capscrew	24
3	7950160161	Flatwasher	21
4	7660160001	Nut	21
5	4017000727	Angle, LH	2
6	4017000714	Angle, RH	2
7	7661000003	Rivnut	3



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**PARTS LIST — 146" BODY, MUDFLAP AND TOOLHOLDERS
INSTALLATION**

Ref. No.	Part No.	Description	Qty.
1	4017000719	Angle	2
2	7118151250	Capscrew	12
3	7950150151	Flatwasher	40
4	7638000007	Mudflap	2
5	4706001815	Plate	2
6	7660152601	Locknut	20
7	4178000242	Bracket	2
8	7115150850	Capscrew	8
9	3178000222	Basetool Holder	1
10	3178000221	Intermediate Tool Holder	2
11	3178000220	Top Tool Holder	1
12	7115160850	Capscrew	16
13	7660160001	Nut	19
14	7115161050	Capscrew	3
15	4812000047	Shim	1
16	3502080063	St. Alone Body Assy, 52" Tandem, LH	1
	3502080064	St. Alone Body Assy, 52" Tandem, RH	1
	3502080065	St. Alone Body Assy, 58.5" Tandem, LH	1
	3502080066	St. Alone Body Assy, 58.5" Tandem, RH	1
	3502080067	St. Alone Body Assy, 52" Tri Axle, LH	1
	3502080068	St. Alone Body Assy, 52" Tri Axle, RH	1
	3502080069	St. Alone Body Assy, 58.5" Tri Axle, LH	1
	3502080070	St. Alone Body Assy, 58.5" Tri Axle, RH	1
17	7115202850	Capscrew	8
18	7950200161	Flatwasher	8
19	7949000019	Washer	8
20	7636000008	Mount	8
21	7949000020	Washer	8
22	7660200001	Nut	8
23	7115223250	Capscrew	8
24	7950220161	Flatwasher	8
25	7949000017	Washer	8
26	7636000007	Mount	8
27	7949000018	Washer	8
28	7660220001	Nut	8

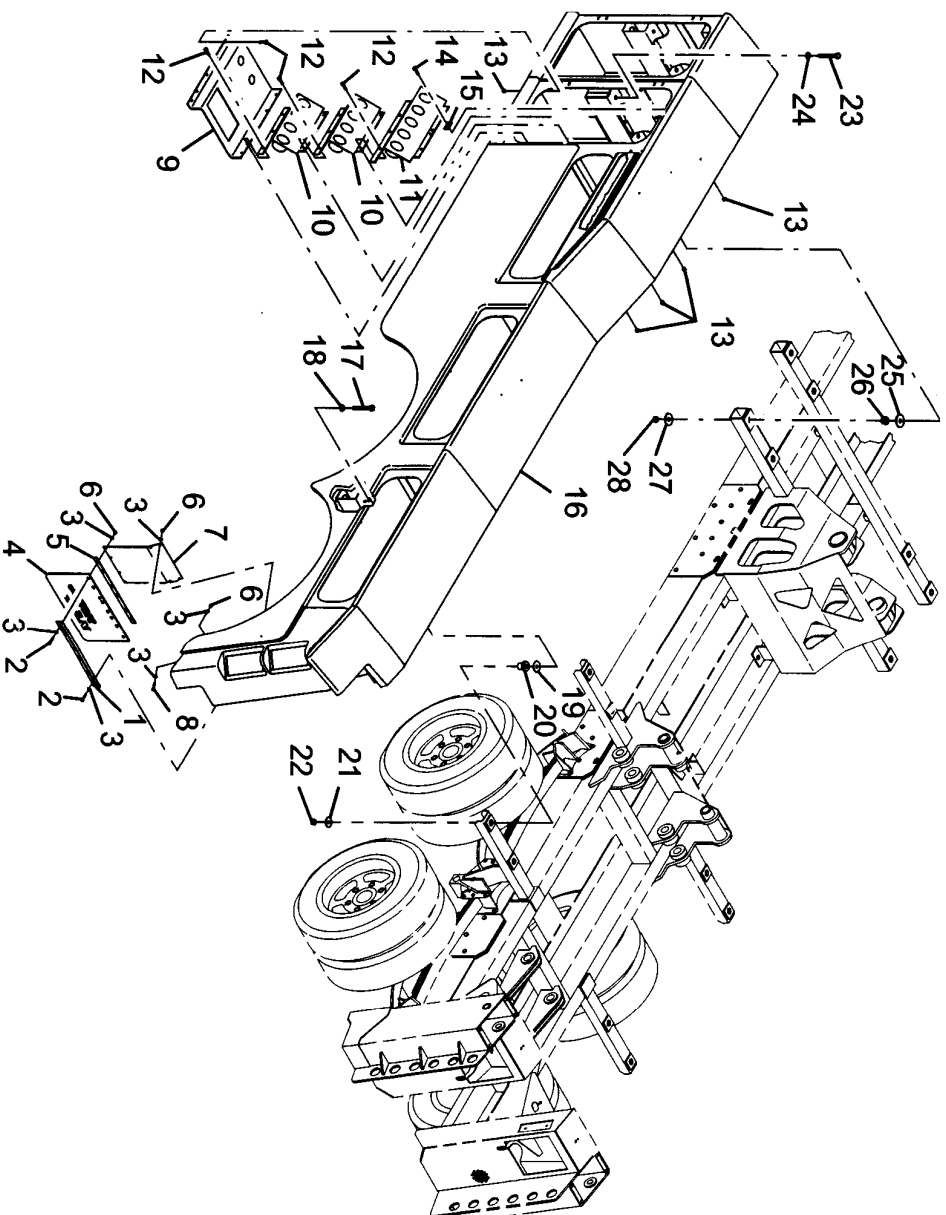


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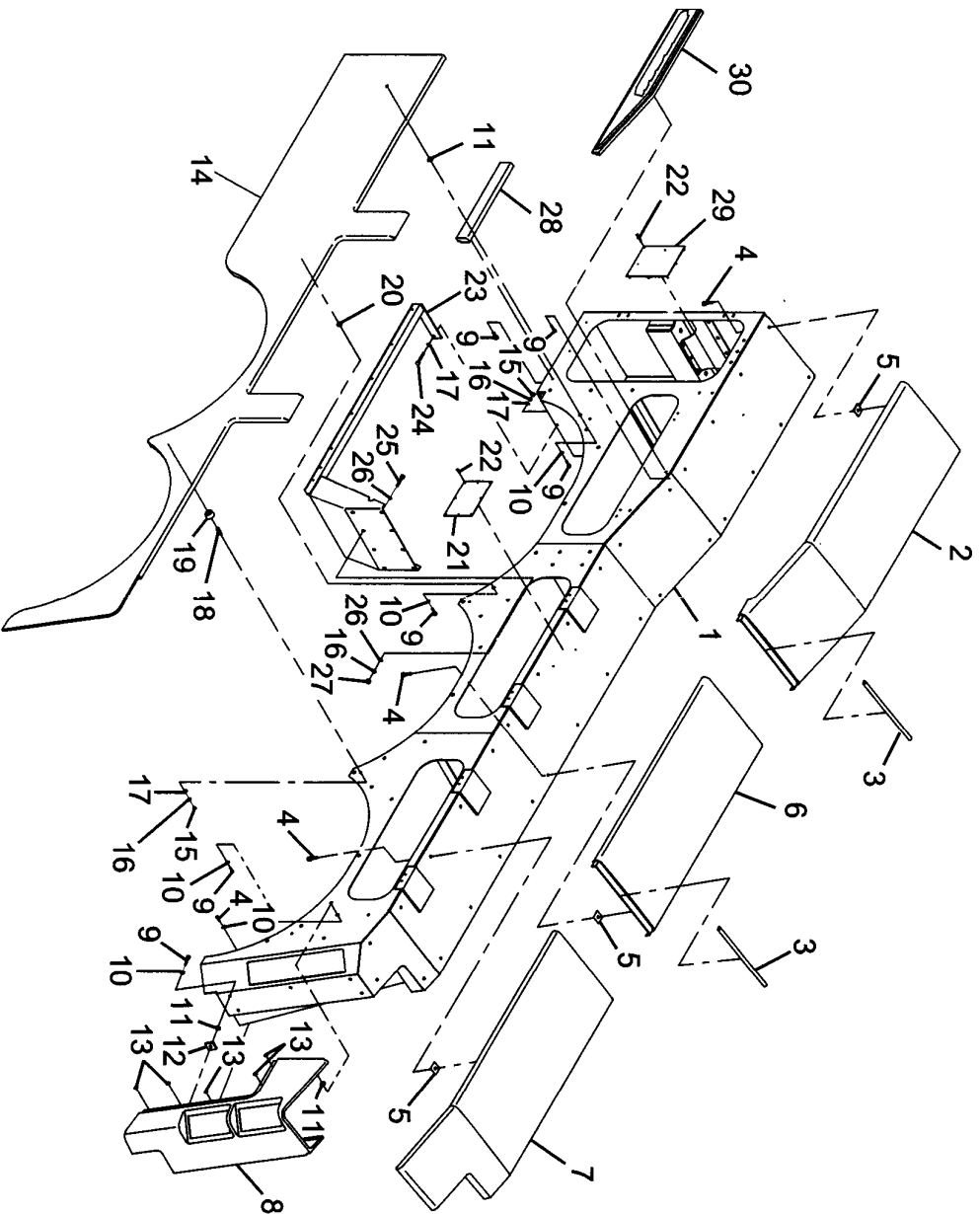
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146" BODY, MUDDLAP AND TOOLHOLDERS INSTALLATION



146" BODY PANEL - TANDEM AXLE



PARTS LIST — 146" BODY PANEL - TANDEM AXLE

Ref. No.	Part No.	Description	Qty.
1	3502080047	Body Assy, LH	1
	3502080048	Body Assy, RH	1
2	7686000010	Front Cap Panel, LH	1
	7686000009	Front Cap Panel, RH	1
3	7632046022	Moulding	4
4	7790141251	Hex Hd Screw	68
5	4679000120	Pad	62
6	7686000025	Top Cap Panel, LH	1
	7686000024	Top Cap Panel, RH	1
7	7686000018	Rear Cap Panel, LH	1
	7686000017	Rear Cap Panel, RH	1
8	7686000014	Tail Light Panel, LH	1
	7686000013	Tail Light Panel, RH	1
9	7790142051	Hex Hd Screw	94
	7790141651	Hex Hd Screw (Alternate Part)	94
10	7949000022	Fender Washer	82
11	4636000031	Rubber Mount	44
12	4679000122	.38 Rubber Pad	10
	4679000121	.25 Rubber Pad (Alternate Part)	10
13	7189000015	Bumper	10
14	4686000089	52" Wheelwell Panel, LH	1
	4686000090	52" Wheelwell Panel, RH	1
	4686000093	58.5" Wheelwell Panel, LH	1
	4686000094	58.5" Wheelwell Panel, RH	1
15	7660160001	Nut	12
16	7950160000	Lockwasher	12
17	7950160161	Flatwasher	16
18	4691000245	Pin	8
19	4636000033	Rubber Mount	8
20	4636000032	Rubber Mount	34
21	4811000091	Sheet	2
22	7790100856	Screw	32
23	3017000028	Bracket Weldment, LH	1
	3017000029	Bracket Weldment, RH	1
24	7115161050	Capscrew	4
25	7115161250	Capscrew	16
26	7950160151	Flatwasher	32
27	7660160000	Nut	16
28	7686000019	Filler Strip Panel	2
29	4811000221	Sheet	2
30	7686000016	Logo Panel, LH	1
	7686000015	Logo Panel, RH	1



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PARTS LIST — 146" BODY PANEL - TRIPLE AXLE

Ref. No.	Part No.	Description	Qty.
1	3502080047	Body Assy, LH	1
	3502080048	Body Assy, RH	1
2	7686000010	Front Cap Panel, LH	1
	7686000009	Front Cap Panel, RH	1
3	7632046022	Moulding	4
4	7790141251	Hex Hd Screw	68
5	4679000120	Pad	62
6	7686000025	Top Cap Panel, LH	1
	7686000024	Top Cap Panel, RH	1
7	7686000018	Rear Cap Panel, LH	1
	7686000017	Rear Cap Panel, RH	1
8	7686000014	Tail Light Panel, LH	1
	7686000013	Tail Light Panel, RH	1
9	7790142051	Hex Hd Screw	94
	7790141651	Hex Hd Screw (Alternate Part)	94
10	7949000022	Fender Washer	82
11	4636000031	Rubber Mount	44
12	4679000122	.38 Rubber Pad	10
	4679000121	.25 Rubber Pad (Alternate Part)	10
13	7189000015	Bumper	10
14	4686000091	52" Wheelwell Panel, LH	1
	4686000092	52" Wheelwell Panel, RH	1
	4686000095	58.5" Wheelwell Panel, LH	1
	4686000096	58.5" Wheelwell Panel, RH	1
15	7660160001	Nut	8
16	7950160000	Lockwasher	8
17	7950160161	Flatwasher	8
18	4691000245	Pin	8
19	4636000033	Rubber Mount	8
20	4636000032	Rubber Mount	34
21	7686000019	Filler Strip Panel	2
22	4811000091	Sheet	2
23	7790100856	Screw	32
24	4811000221	Sheet	2
25	7686000016	Logo Panel, LH	1
	7686000015	Logo Panel, RH	1



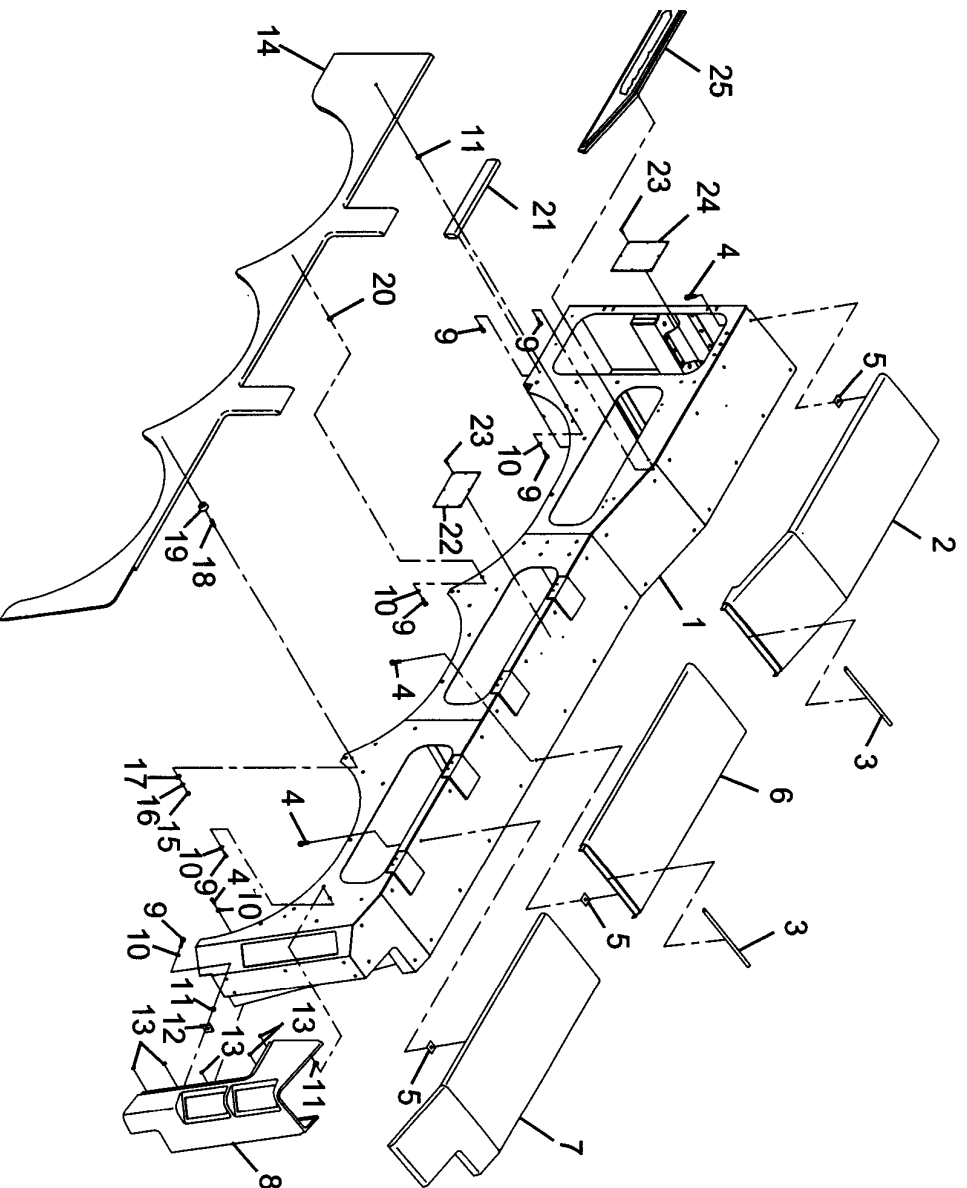
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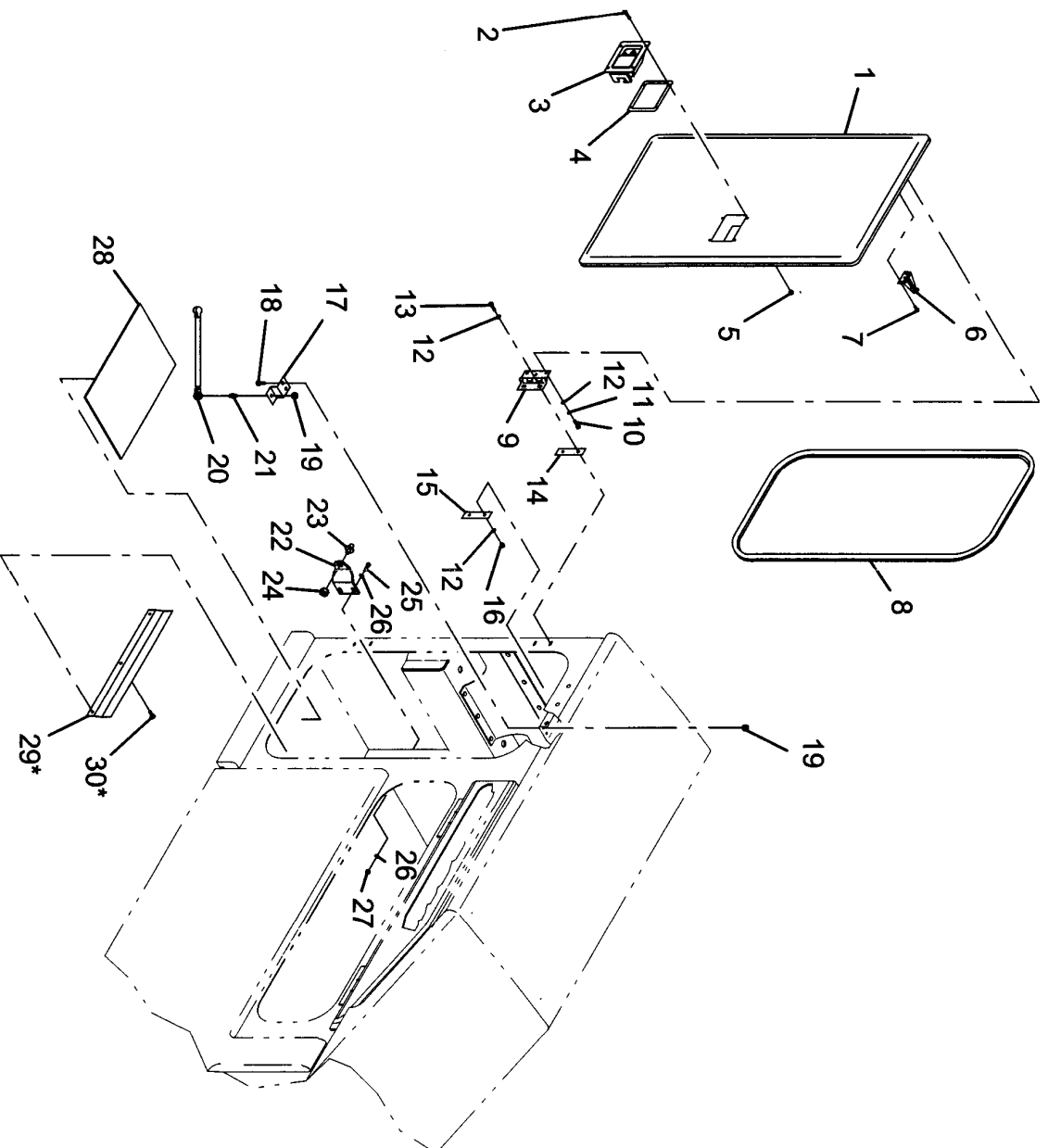
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146" BODY PANEL - TRIPLE AXLE



146" BODY - DOOR AND HARDWARE ASSEMBLY



*APPLIES TO RIGHT SIDE ONLY

PARTS LIST — 146" BODY - DOOR AND HARDWARE ASSEMBLY

Ref. No.	Part No.	Description	Qty.
1	4686000072	Panel Door, LH	1
	4686000073	Panel Door, RH	1
2	7114100818	Capscrew	8
3	7595000005	Paddle Latch	2
4	7796000038	Gasket	2
5	7660102601	Nut	8
6	7178000023	Ball Stud Bracket	2
7	7114100418	Capscrew	6
8	4632000012	Door Seal	2
9	7555000002	Hinge	4
10	7114140418	Capscrew	12
11	7949000025	Lockwasher	12
12	7950140161	Flatwasher	28
13	7114140818	Capscrew	8
14	4812000052	Shim	4
15	4062000173	Bar	4
16	7660142601	Locknut	8
17	4178000240	Bracket	2
18	7115150650	Capscrew	4
19	7660152601	Locknut	6
20	7843000020	Spring	2
21	7865000001	Ball Stud	2
22	4178000225	Bracket	2
23	7585000004	Latch Striker	2
24	7661000021	Locknut	2
25	7115161050	Capscrew	4
26	7950160141	Washer	6
27	7660162601	Locknut	2
28	4679000118	Rubber Pad, LH	1
	4679000114	Rubber Pad, RH	1
29	4811000135(A)	Sheet	1
30	7790141651(A)	Hex Head Screw	3

A – Applies to Right Side only



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PARTS LIST — 146" BODY - DOOR AND HARDWARE ASSEMBLY

Ref. No.	Part No.	Description	Qty.
1	4679000117	Rubber Pad	2
2	4679000142	Rubber Pad	2
3	4679000143	Rubber Pad	2
4	4679000141	Rubber Pad, LH	1
	4679000144	Rubber Pad, RH	1
5	4686000074	Horizontal Door	6
6	4632000013	Door Seal	6
7	3555000007	Hinge Weldment	8
8	7114140518	Capscrew	36
9	7949000025	Lockwasher	36
10	7950100151	Flatwasher	36
11	7115140650	Capscrew	24
12	7950140161	Flatwasher	24
13	7660142601	Locknut	24
14	7843000022	Spring	12
15	7865000001	Ball Stud	12
16	7660152601	Locknut	12
17	7178000023	Bracket	12
18	7114100618	Capscrew	36
19	7660102601	Nut	60
20	3555000008	Hinge Weldment	4
21	4062000174	Bar	4
22	7595000005	Paddle Latch	6
23	7114100818	Capscrew	24
24	7796000038	Gasket	6
25	4178000225	Bracket	6
26	7585000004	Latch Striker	6
27	7661000021	Locknut	6
28	7115161050	Capscrew	12
29	7950160161	Flatwasher	24
30	7660162601	Locknut	12

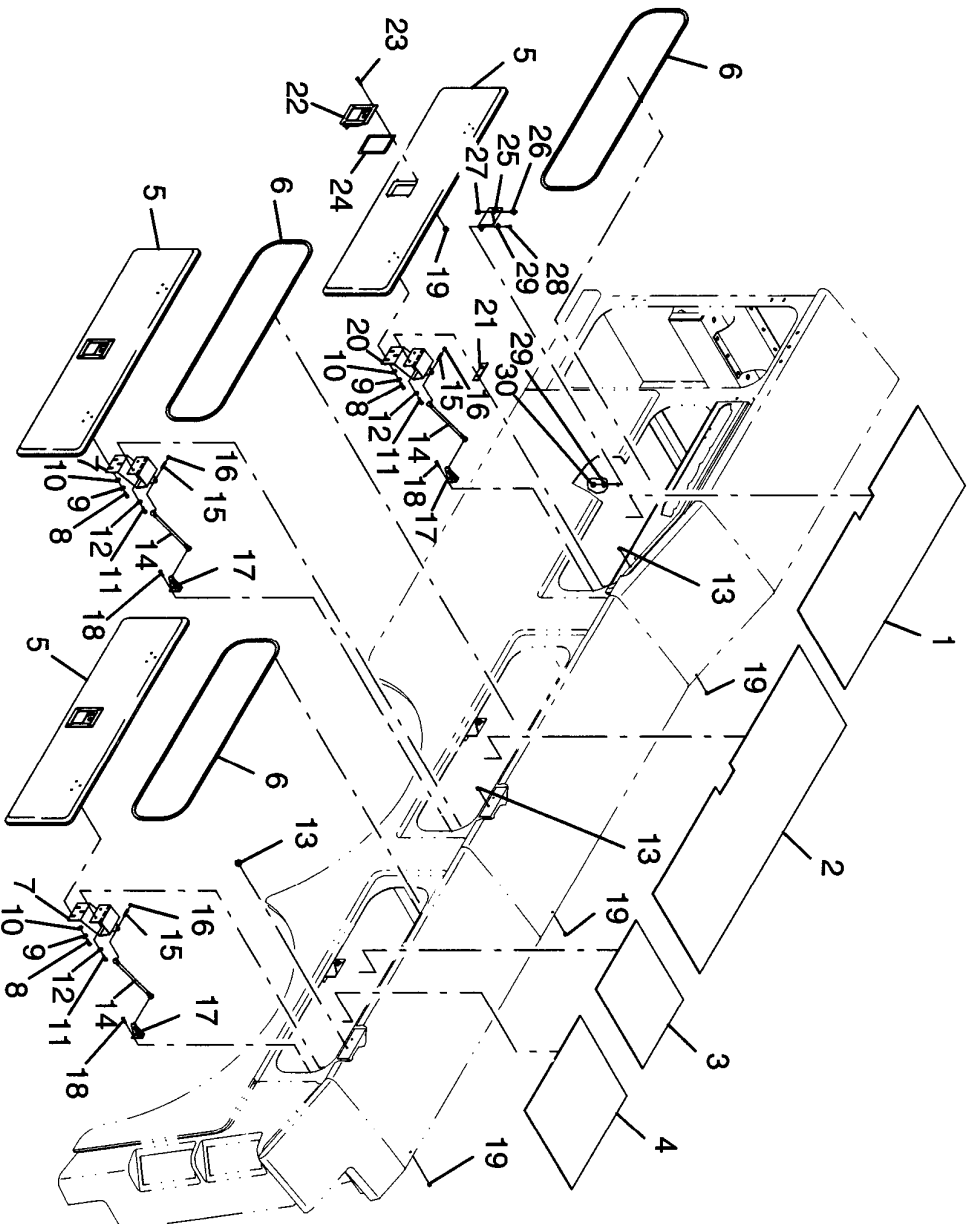


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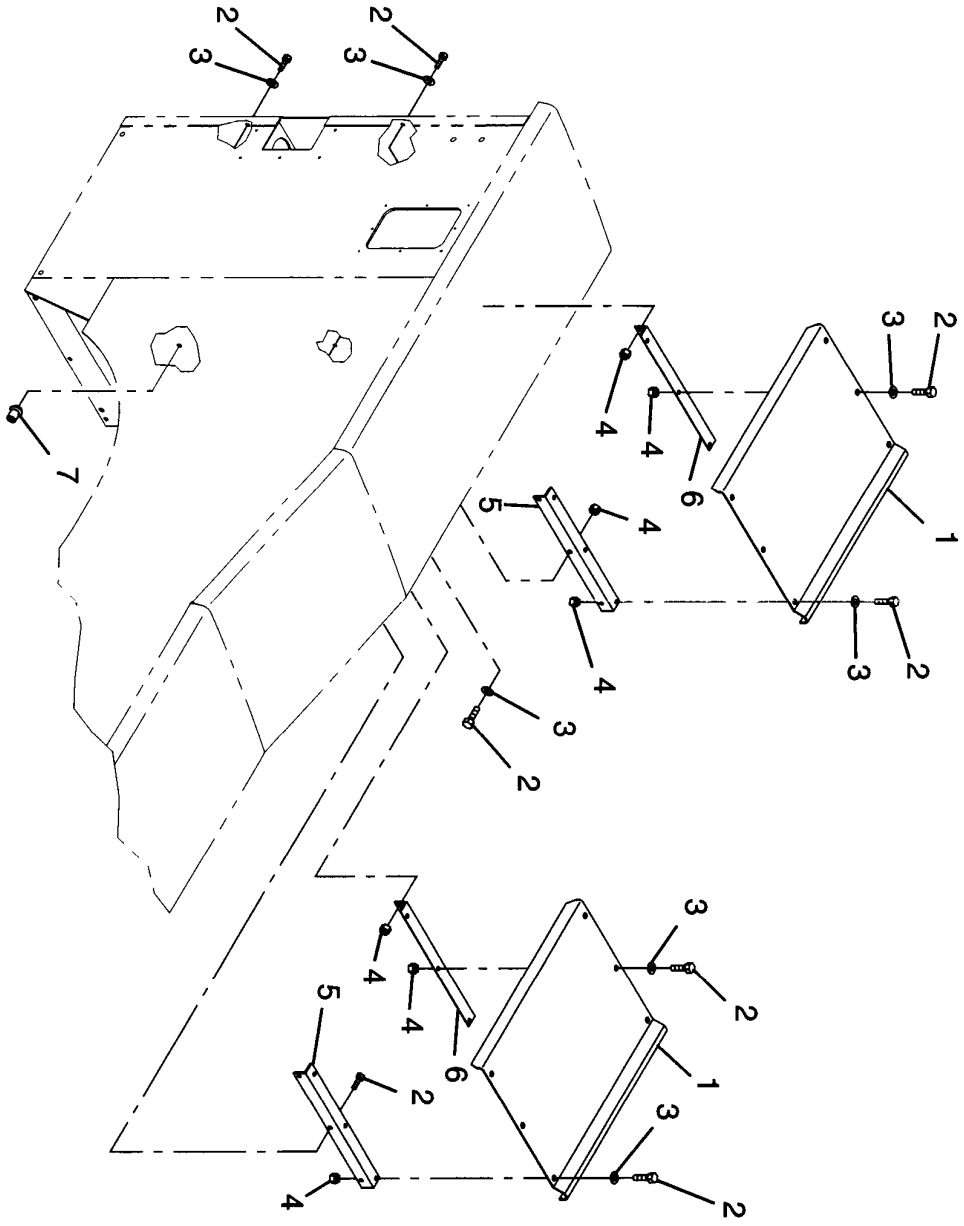
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146" BODY - DOOR AND HARDWARE ASSEMBLY



SHELF ASSEMBLY



PARTS LIST — SHELF ASSEMBLY

Ref. No.	Part No.	Description	Qty.
1	4811000142	Sheet	2
2	7115160850	Capscrew	24
3	7950160161	Flatwasher	21
4	7660160001	Nut	21
5	4017000727	Angle, LH	2
6	4017000714	Angle, RH	2
7	7661000003	Rivnut	3



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PARTS LIST — 146" BODY FLARE INSTALLATION TANDEM AXLE

Ref. No.	Part No.	Description	Qty.
1	4415000019	52" Wheelwell Flare, LH	1
	4415000017	52" Wheelwell Flare, RH	1
	4415000030	58.5" Wheelwell Flare, LH	1
	4415000028	58.5" Wheelwell Flare, RH	1
2	7111141050	Capscrew	16
3	7950140151	Flatwasher	80
4	7660142601	Locknut	40
5	7002000187	Rubber Fender Flares	2 pr
6	7415000010	52" Flare Junction Panel	2
	7415000011	58.5" Flare Junction Panel	2
7	7790142051	Hex Hd Screw	2
8	7949000022	Fender Washer	2
9	4679000148	Isolator Pad	2
10	4415000018	52" Wheelwell Flare, LH	1
	4415000016	52" Wheelwell Flare, RH	1
	4415000029	58.5" Wheelwell Flare, LH	1
	4415000027	58.5" Wheelwell Flare, RH	1
11	7115141850	Capscrew	24
12	4415000036	52" Wheelwell Body Flare	2
	4415000038	58.5" Wheelwell Body Flare	2
13	4831000070	Spacer	2
14	7415000014	Cap, LH	3
	7415000013	Cap, RH	3
15	4415000045	1 Toolbox Flare	2
	4415000046	2 Toolbox Flare	2
	4415000015	3 Toolbox Flare	2
	4415000021	4 Toolbox Flare	2
16	7115141850	Capscrew	*
17	7950140151	Flatwasher	*
18	7660142601	Locknut	*

* Quantity varies according to body length.

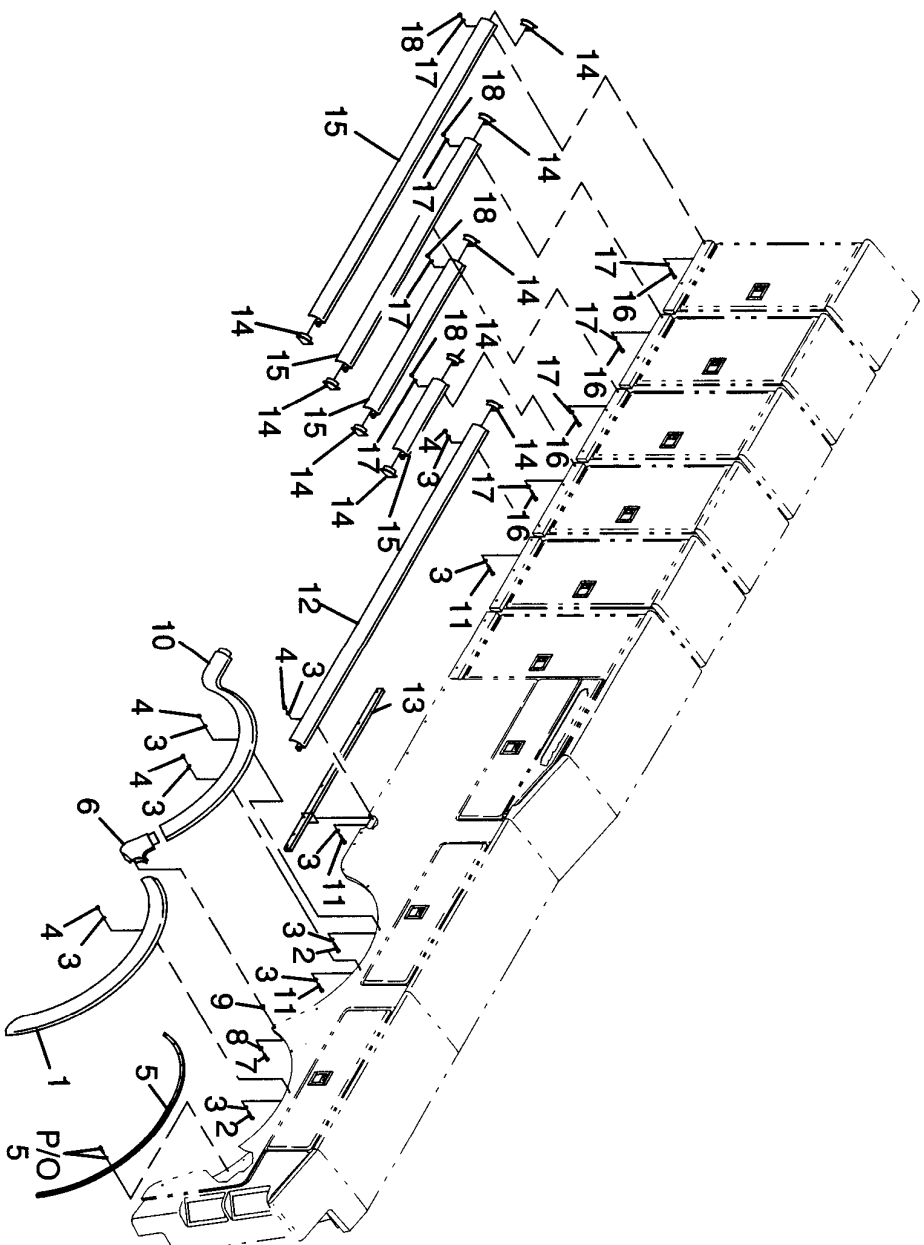


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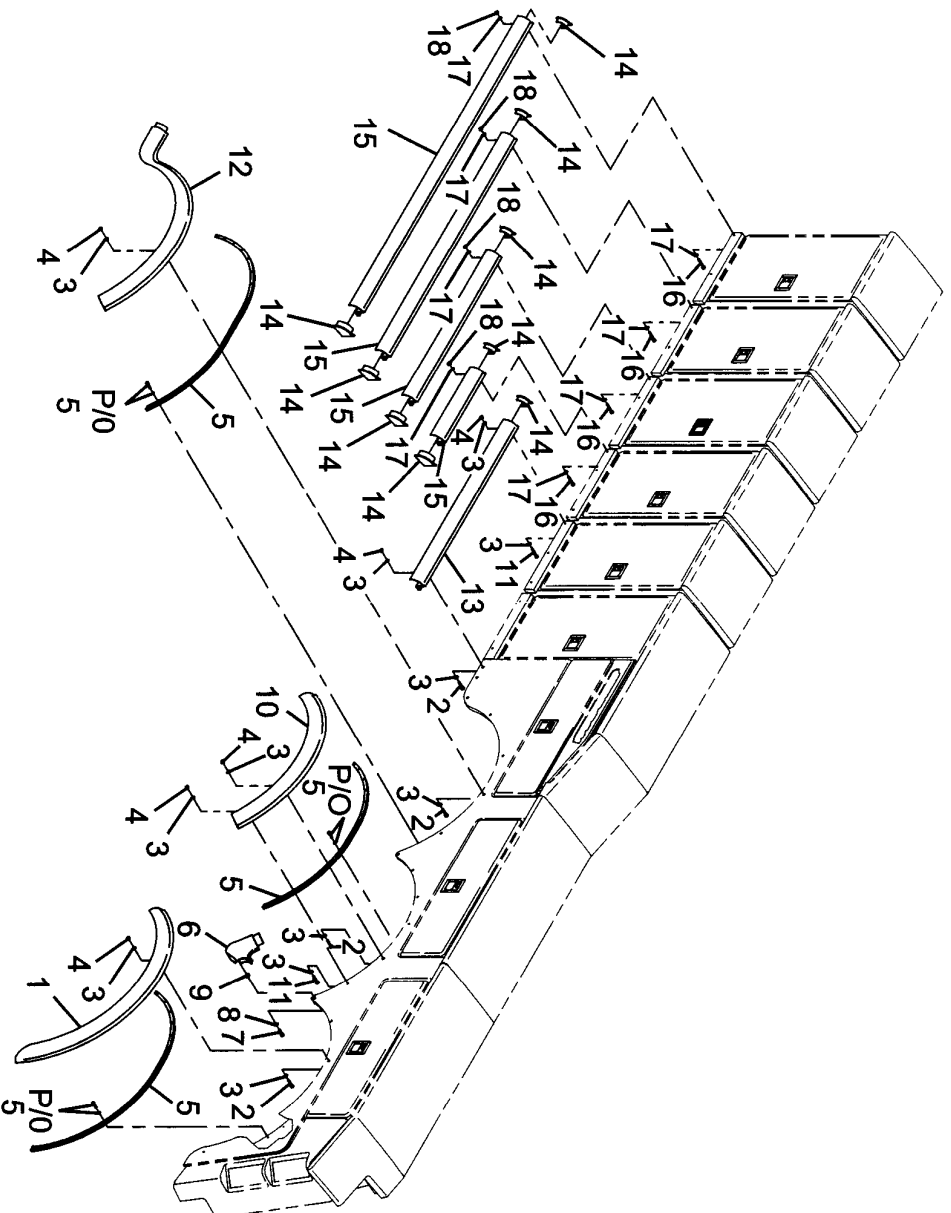
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146" BODY FLARE INSTALLATION TANDEM AXLE



146" BODY FLARE INSTALLATION TRIPLE AXLE



PARTS LIST — 146" BODY FLARE INSTALLATION TRIPLE AXLE

Ref. No.	Part No.	Description	Qty.
1	4415000019	52" Wheelwell Flare, LH	1
	4415000017	52" Wheelwell Flare, RH	1
	4415000030	58.5" Wheelwell Flare, LH	1
	4415000028	58.5" Wheelwell Flare, RH	1
2	7111141050	Capscrew	26
3	7950140151	Flatwasher	76
4	7660142601	Locknut (52" Wheelwell Flare)	38
		Locknut (58.5" Wheelwell Flare)	40
5	7002000187	Rubber Fender Flares	3 pr
6	7415000010	52" Flare Junction Panel	4
	7415000011	58.5" Flare Junction Panel	4
7	7790142051	Hex Hd Screw	4
8	7949000022	Fender Washer	4
9	4679000148	Isolator Pad	4
10	4415000043	52" Wheelwell Flare	2
	4415000044	58.5" Wheelwell Flare	2
11	7115141850	Capscrew (52" Wheelwell Flare)	12
		Capscrew (58.5" Wheelwell Flare)	14
12	4415000018	52" Wheelwell Flare, LH	1
	4415000016	52" Wheelwell Flare, RH	1
	4415000029	58.5" Wheelwell Flare, LH	1
	4415000027	58.5" Wheelwell Flare, RH	1
13	4415000040	52" Wheelwell Body Flare	2
	4415000042	58.5" Wheelwell Body Flare	2
14	7415000014	Cap, LH	3
	7415000013	Cap, RH	3
15	4415000045	1 Toolbox Flare	2
	4415000046	2 Toolbox Flare	2
	4415000015	3 Toolbox Flare	2
	4415000021	4 Toolbox Flare	2
16	7115141850	Capscrew	*
17	7950140151	Flatwasher	*
18	7660142601	Locknut	*

* Quantity varies according to body length.



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PARTS LIST — TUNNEL TOOLBOX - 24

Ref. No.	Part No.	Description	Qty.
1	7595000005	Rotary Latch	2
2	7796000038	Gasket	2
3	7790101276	Pan Head Screw	8
4	7660102601	Locknut	8
5	4686000072	Door Panel LH	1
6	7178000022	Bracket	2
7	7114100418	Capscrew	6
8	7114140418	Capscrew	12
9	7950140500	Lockwasher	12
10	4812000052	Shim	10
11	7555000002	Hinges	4
12	7114140818	Capscrew	8
13	7950140161	Flatwasher	20
14	7660142601	Locknut	12
15	4679000116	Rubber Pad	1
16	7686000008	Top Cap Panel	2
17	4679000120	Rubber Pad	8
18	7790141651	Hex Head Screw	14
19	4178000229	Bracket	4
20	7660182301	Locknut	20
21	7950180153	Flatwasher	16
22	7115181050	Capscrew	16
23	4686000073	Door Panel RH	1
24	4632000012	Seal	2
26	3274000011	Clamp Weldment	4
27	7950180252	Flatwasher	4
28	3503740030	Toolbox Body Assembly	1
29	7115182050	Capscrew	4
30	3911000033	Tube Weldment	1
31	7115202850	Capscrew	4
32	7950200161	Flatwasher	4
33	7949000020	Washer	4
34	7636000008	Mount	4
35	7949000020	Washer	4
36	7660200001	Hex Nut	4
37	8632000008	Rubber Seal	12 ft.
38	7796000002	Seal	12 ft.
39	4811000135	Alum Sheet	2
40	7115140850	Hex Head Capscrew	4
41	7686000019	Filler Strip Panel	2
42	4679000115	Rubber Pad	2
43	4178000240	Bracket	2
44	7115150650	Hex Head Capscrew	4
45	7660152601	Locknut	6
46	7843000020	Gas Spring	2
47	7865000001	Ball Stud	2
48	4062000174	Bar	2
49	4178000222	Bracket	2
50	7585000004	Latch Striker	2
51	7661000021	Locknut	2

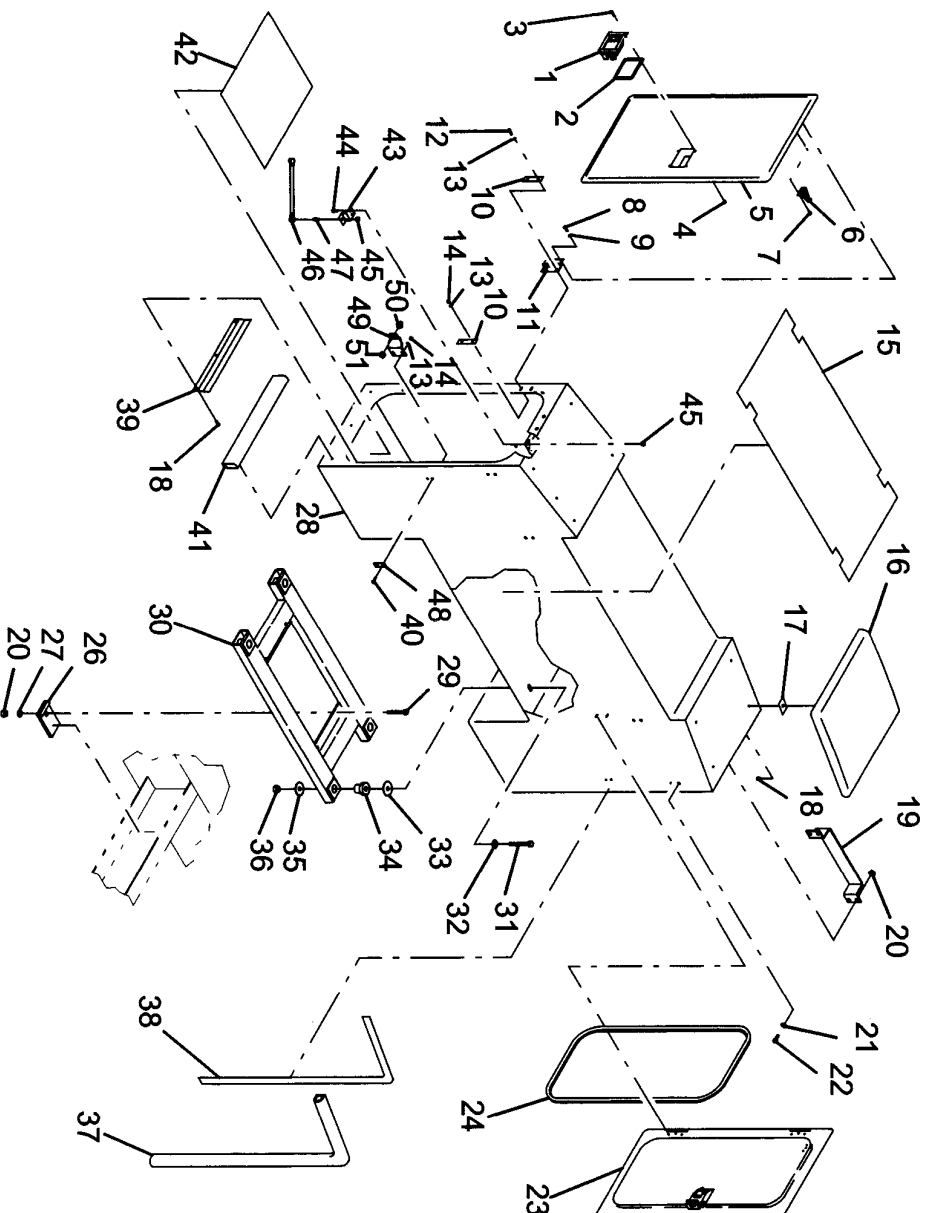


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Date _____

TUNNEL TOOLBOX - 24



PARTS LIST – TUNNEL TOOLBOX - 49”

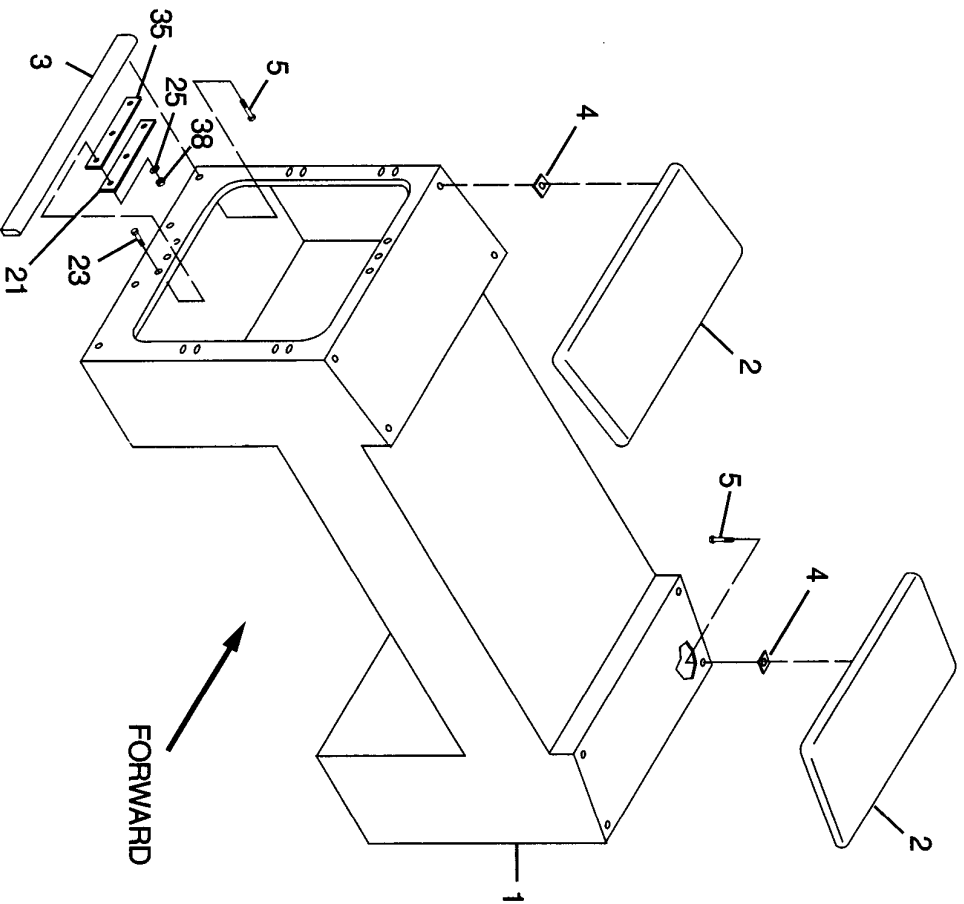
Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	3502740106	Toolbox Body Assembly	1	29	7660102601	Nut	16
2	7686000050	Toolbox Cap	2	30	7114140418	Capscrew	24
3	7686000057	Filler Strip	2	31	7950140500	Lockwasher	24
4	4679000120	Rubber Pad	12	32	7831000040	Spacer	8
5	7790141651	Hex Head Screw	20	33	4686000134	Door Panel, RH	2
6	4686000133	Door Panel, LH	2	34	7115150650	Hex Head Capscrew	8
7	4632000025	Seal Door Vertical	2	35	4062000368	Bar	4
8	4811000355	Alum Sheet	2	36	4811000336	Alum Sheet	8
9	7555000002	Hinges	8	37	4811000337	Alum Sheet	8
10	4812000052	Shim	16	38	7660140001	Nut	12
11	7585000011	Latch	4	39	4178000229	Bracket	4
12	7114100418	Capscrew	28	40	7115181050	Hex Head Capscrew	16
13	7585000010	Latch	8	41	7950180153	Flatwasher	16
14	4178000337	Bracket	8	42	7660182301	Locknut	16
15	7796000031	Gasket	4	43	7690000810	Cotter Pin	8
16	7660152601	Locknut	12	44	3911000053	Tube Weld	1
17	7843000020	Gas Spring	4	45	3274000011	Toolbox Clamp Weldment	6
18	7178000023	Ball Stud Bracket	4	46	7636000008	Center Bonded Mount	6
19	7865000001	Thread Ball Stud	4	47	7949000019	Snub Head Washer	24
20	4178000240	Bracket	4	48	7949000020	Snub Tail Washer	6
21	4811000335	Alum Sheet	4	49	7115202850	Hex Head Capscrew	6
22	4632000024	Seal Door	2	50	7950200161	Flatwasher	6
23	7114141018	Capscrew	28	51	7660200001	Nut	6
24	7660142601	Locknut	16	52	7115182050	Hex Head Capscrew	6
25	7950140161	Flatwasher	56	53	7660182301	Locknut	6
26	4679000181	Pad	2	54	7950180252	Flatwasher	6
27	4679000188	Rubber Pad	2	55	8632000011	Seal	12 ft.
28	7114100818	Capscrew	16				



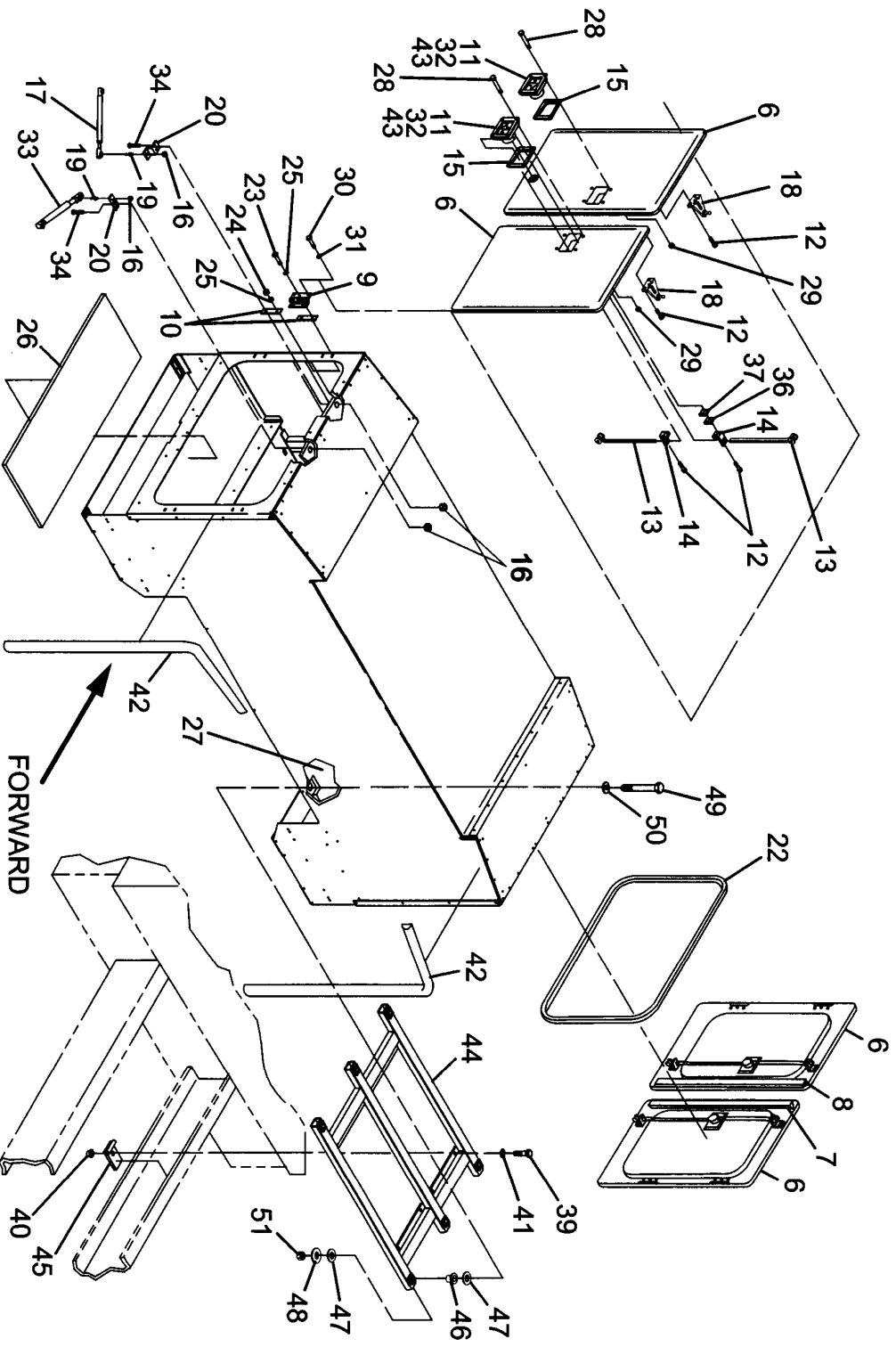
This exploded perspective view illustrates the assembly of a vehicle interior component, likely a dashboard or instrument panel. The diagram shows the following components and their assembly relationships:

- Instrument Panel (6):** The main upper component, featuring a display area (12) and a lower section (13).
- Mounting Brackets (11, 15, 32, 43):** These brackets are used to secure the instrument panel to the underlying structure.
- Fasteners (18, 29, 36, 37, 41, 42, 49, 50):** Various screws and bolts used to assemble the components.
- Door Panel (22):** A rectangular panel that fits into the lower section of the instrument panel.
- Door Panel Components (6, 7, 8, 33):** Sub-components of the door panel, including a frame (6) and internal parts (7, 8, 33).
- Structural Frame (10, 16, 20, 23, 24, 25, 30, 31, 34, 40, 44, 46, 47, 48, 51, 53, 54, 55):** The main structural elements that form the base and support for the instrument panel and door panel.
- Orientation:** A "FORWARD" arrow indicates the direction of the vehicle's front.

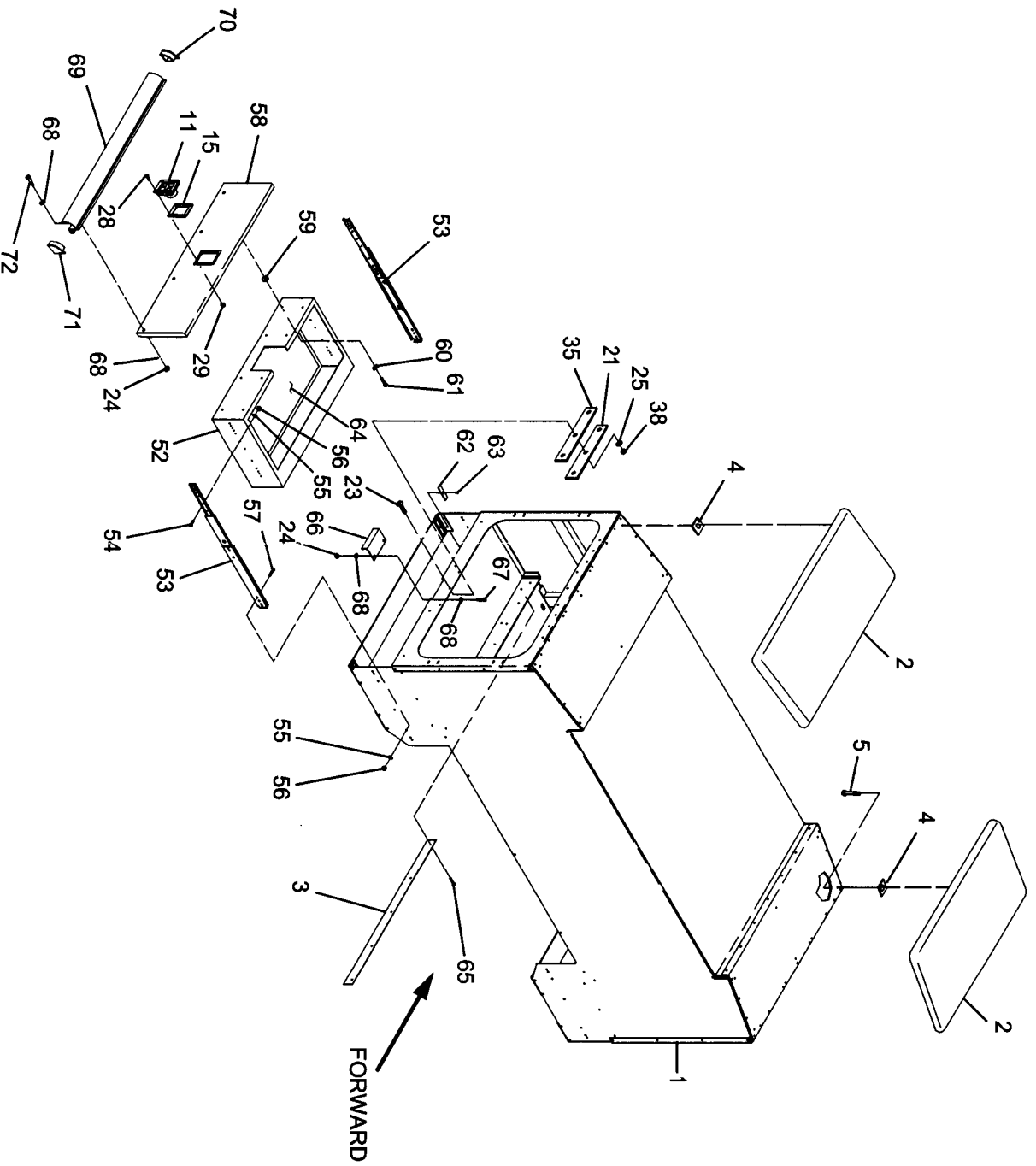
TUNNEL TOOLBOX - 49"



TUNNEL TOOLBOX WITH DRAWER - 49"



TUNNEL TOOLBOX WITH DRAWER - 49"



PARTS LIST - TUNNEL TOOLBOX WITH DRAWER - 49"

Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	3502740131	Toolbox Body Bondment	1	39	7115182050	Hex Head Capscrew	6
2	7686000050	Toolbox Cap	2	40	7660182301	Locknut	6
3	4811000391	Sheet	1	41	7950180252	Flatwasher	6
4	4679000120	Rubber Pad	12	42	8632000011	Seal	12 ft.
5	7790141651	Hex Head Screw	12	43	7690000810	Cotter Pin	8
6	7686000056	Door Panel	4	44	3911000053	Tube Weld	1
7	4632000019	Seal Door Vertical	2	45	3274000011	Toolbox Clamp Weldment	6
8	4811000332	Alum Sheet	2	46	7636000008	Center Bonded Mount	6
9	7555000002	Hinges	8	47	7949000019	Snub Head Washer	24
10	4812000052	Shim	16	48	7949000020	Snub Tail Washer	6
11	7585000011	Latch	6	49	7115202850	Hex Head Capscrew	6
12	7114100418	Capscrew	28	50	7950200161	Flatwasher	6
13	7585000010	Latch	8	51	7660200001	Nut	6
14	4178000337	Bracket	8	52	3502740134	Drawer	2
15	7796000031	Gasket	6	53	7821000003	Slide	2
16	7660152601	Locknut	12	54	7114100518	Capscrew	16
17	7843000020	Gas Spring	2	55	7950100103	Flatwasher	36
18	7178000023	Ball Stud Bracket	4	56	7660102604	Locknut	36
19	7865000001	Thread Ball Stud	4	57	7114100523	Capscrew	20
20	4178000240	Bracket	4	58	7686000059	Drawer Panel	2
21	4811000335	Alum Sheet	4	59	4636000031	Rubber Mount	16
22	4632000020	Seal Door	2	60	7949000022	Fender Washer	16
23	7114141018	Capscrew	28	61	7790141651	Screw	16
24	7660142601	Locknut	28	62	4679000156	Pad	4
25	7950140161	Flatwasher	56	63	7115100323	Capscrew	4
26	4679000181	Pad	2	64	4679000207	Pad	2
27	4679000188	Rubber Pad	2	65	7759000008	Rivet	10
28	7114100818	Capscrew	24	66	4706003145	Plate	2
29	7660102601	Nut	24	67	7115140850	Capscrew	4
30	7114140418	Capscrew	24	68	7950140141	Flatwasher	24
31	7950140500	Lockwasher	24	69	4415000050	Body Flare	2
32	7831000040	Spacer	8	70	7415000014	LH Cap	2
33	7843000026	Gas Spring	2	71	7415000013	RH Cap	2
34	7115150650	Hex Head Capscrew	8	72	7115141850	Capscrew	8
35	4062000368	Bar	4				
36	4811000336	Alum Sheet	8				
37	4811000337	Alum Sheet	8				
38	7660140001	Nut	12				



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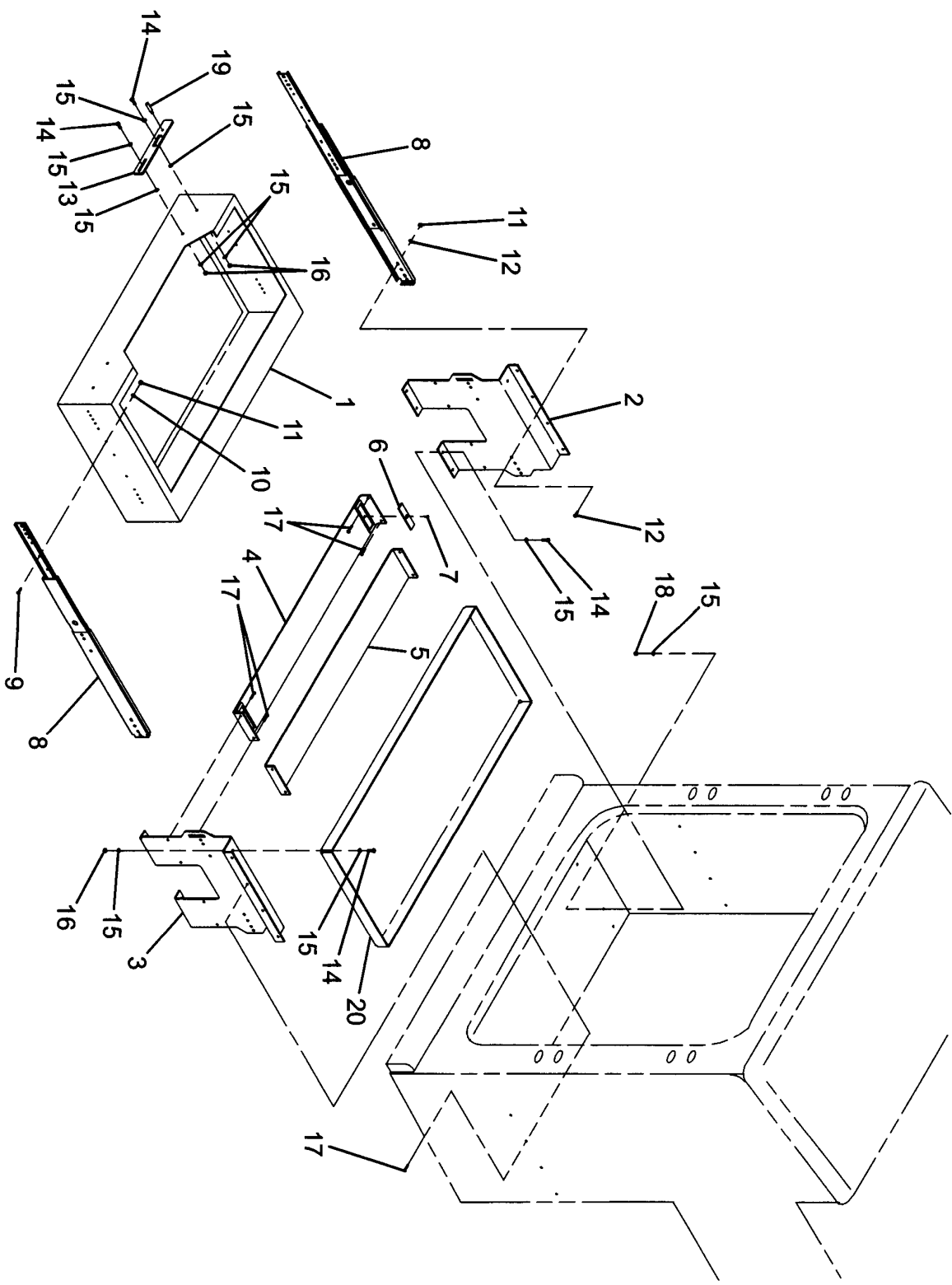
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Date _____

PARTS LIST — 49" TUNNEL TOOLBOX DRAWER INSERT

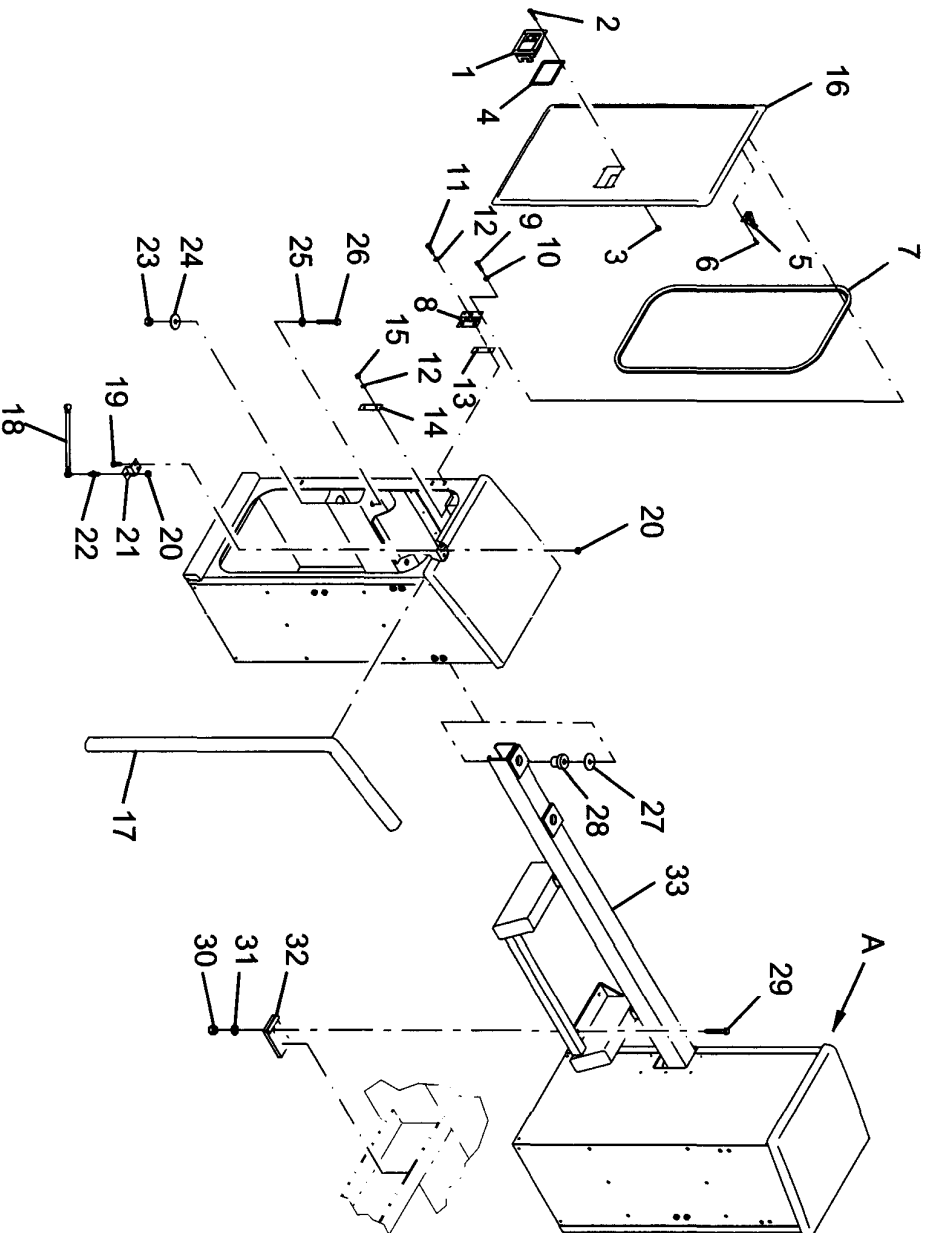
Ref. No.	Part No.	Description	Qty.
1	3502740144	Drawer	1
2	4178000377	LH Bracket	1
3	4178000378	RH Bracket	1
4	3811000004	Drawer Support Sheet	1
5	3811000403	Sheet	1
6	4679000156	Nylatron Wear Pad	2
7	7115100323	Capscrew	2
8	7821000004	Slide	1 pr
9	7114100518	Capscrew	20
10	7950100103	Flatwasher	34
11	7660102604	Locknut	34
12	7114100523	Capscrew	14
13	4706003228	Plate	2
14	7115140850	Capscrew	14
15	7950140141	Flatwasher	32
16	7660140001	Nut	6
17	7759000008	Rivet	16
18	7660142601	Locknut	8
19	4763000184	Rod	2
20	4811000407	Sheet	1



49" TUNNEL TOOLBOX DRAWER INSERT

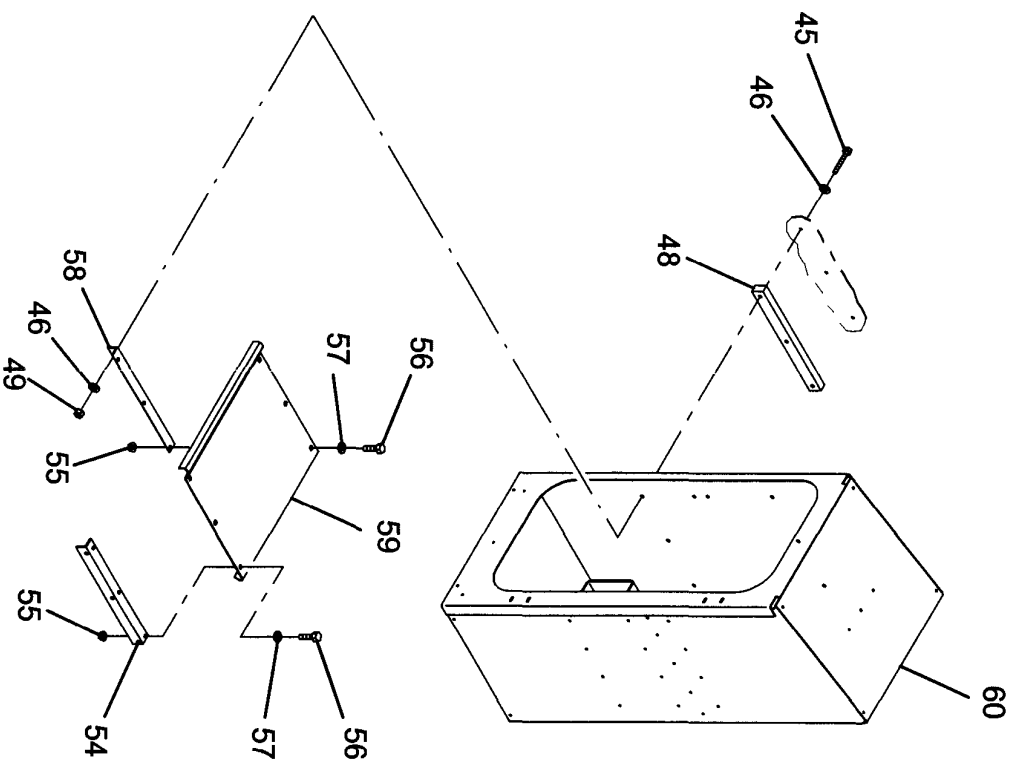


24" STAND-ALONE TOOLBOX - DOOR AND HARDWARE ASSEMBLY



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24" STAND-ALONE TOOLBOX - DOOR AND HARDWARE ASSEMBLY



DETAIL A

PARTS LIST — 24" STAND-ALONE TOOLBOX - DOOR AND HARDWARE ASSEMBLY

Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	7595000005	Latch Paddle	2	34	7790141651	Screw	14
2	7114100818	Capscrew	8		7790142051	Screw (use with 4679000121)	14
3	7660102601	Nut	8	35	7686000008	Toolbox Cap	2
4	7796000038	Gasket	2	36	4679000120	Rubber Pad	8
5	7178000023	Bracket Ball Stud	2		4679000121	Rubber Pad (use with 7790142051)	8
6	7114100418	Capscrew	6	37	7115181050	Capscrew	8
7	4632000012	Seal	2	38	7950180153	Flatwasher	8
8	7555000002	Hinge	4	39	4178000270	Bracket	2
9	7114140418	Capscrew	12	40	7115140850	Capscrew	4
10	7949000025	Lockwasher	12	41	7413000002	Nutsert	4
11	7114140818	Capscrew	8	42	4178000222	Bracket	2
12	7950140161	Flatwasher	20	43	7661000021	Locknut	2
13	4812000052	Shim	4	44	7585000004	Latch Striker	2
14	4062000173	Bar	4	45	7115162250	Capscrew	12
15	7660142601	Locknut	8	46	7950160161	Flatwasher	24
16	4684000072	Panel Door	2	47	4062000243	Backing Bar	8
17	8632000011	Rubber	2	48	4679000136	Pad	4
18	7843000020	Spring Gas	2	49	7660160001	Nut	12
19	7115150650	Capscrew	4	50	7686000019	Filler Strip	2
20	7660152601	Locknut	6	51	4811000135	Sheet	2
21	4178000240	Bracket	2	52	4679000115	Pad Rubber	2
22	7865000001	Ball Stud	2	53	3502740071	Box Bondment, LH	2
23	7660220001	Nut	4	54	4017000727	Angle, LH	2
24	7949000018	Washer	4	55	7660160001	Nut	18
25	7950220161	Flatwasher	4	56	7115160850	Capscrew	18
26	7115223250	Capscrew	4	57	7950160161	Flatwasher	18
27	7949000017*	Washer	8	58	4017000714	Angle, RH	2
28	7636000007	Mount	4	59	4811000217	Sheet	2
29	7115182050	Capscrew	4	60	3502740072	Stand Alone Box Bondment, RH	1
30	7660182301	Locknut	12				
31	7950180252	Flatwasher	4				
32	3274000011	Clamp Weldment	4				
33	3868000157	Subframe Weldment	1				

* 4 Required, install additional washers to set height of toolbox when misalignment occurs.



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PARTS LIST - STAND-ALONE TOOLBOX - 49"

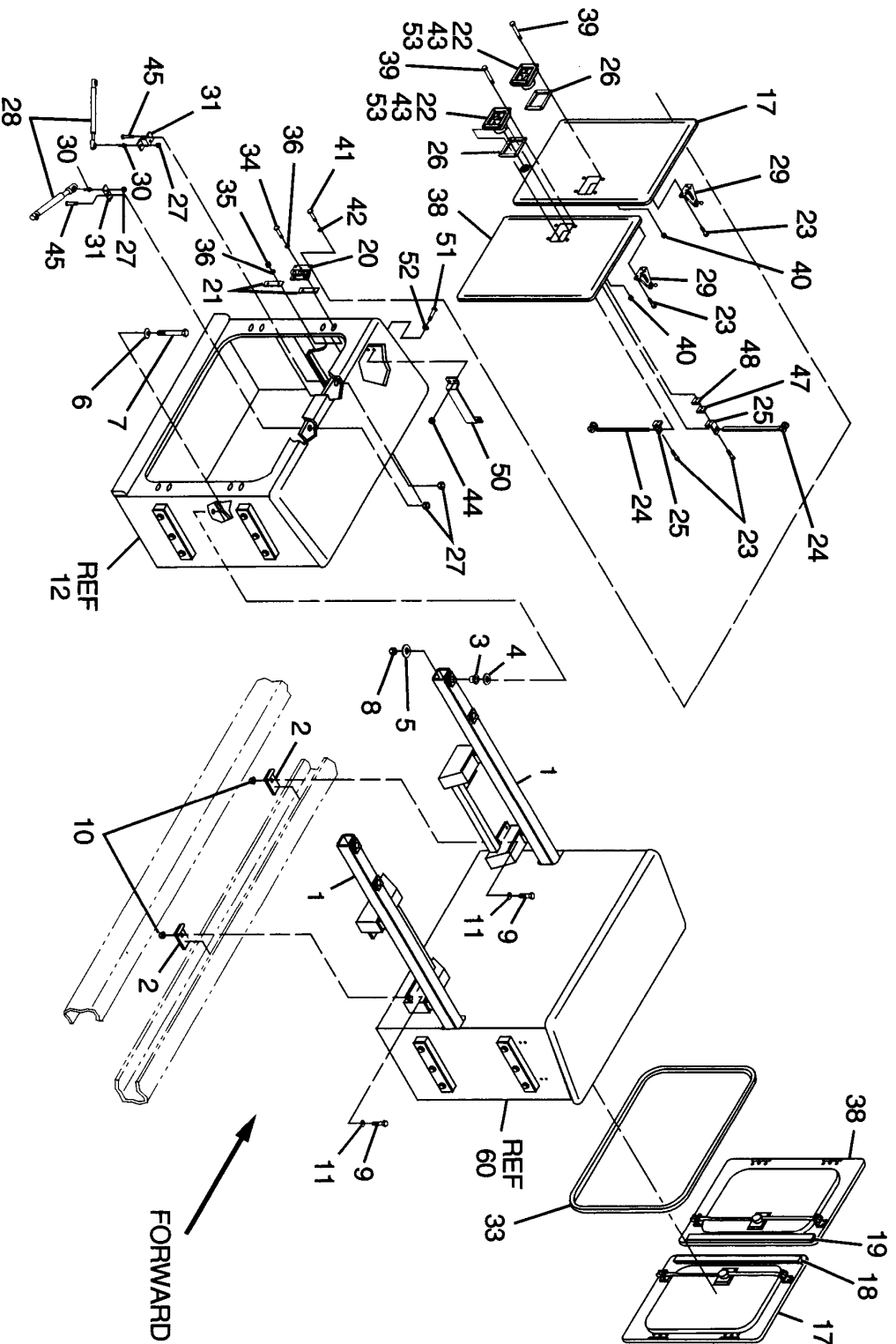
Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	3868000157	Subframe Weld	4	31	4178000240	Bracket	4
2	3274000011	Toolbox Clamp Weldment	8	32	4811000335	Alum Sheet	4
3	7636000007	Mount	8	33	4632000024	Seal	2
4	7949000017	Washer Head	8	34	7114141018	CapscREW	28
5	7949000018	Washer Tail	16	35	7660142601	Locknut	16
6	7950220161	Flatwasher	8	36	7950140161	Flatwasher	56
7	7115223250	Hex Head Capscrew	8	37	4679000181	Pad	2
8	7660220001	Nut	8	38	4686000134	Door Panel, RH	2
9	7115182050	Hex Head Capscrew	8	39	7114100818	CapscREW	16
10	7660182301	Locknut	8	40	7660102601	Nut	16
11	7950180252	Flatwasher	8	41	7114140418	CapscREW	24
12	3502740111	Toolbox Assy LH	1	42	7950140500	Lockwasher	24
13	7686000050	Panel Composite - Toolbox Cap	1	43	7831000040	Spacer	8
14	7686000057	Panel Composite - Filler Strip	2	44	7660182301	Locknut	16
15	4679000120	Rubber Pad	12	45	7115150650	Hex Head Capscrew	8
16	7790141651	Hex Head Screw	20	46	4062000368	Bar	4
17	4686000133	Door Panel, LH	2	47	4811000336	Alum Sheet .06 Thk	8
18	4632000025	Seal	2	48	4811000337	Alum Sheet .13 Thk	8
19	4811000355	Alum Sheet	2	49	7660140001	Nut	12
20	7555000002	Hinges	8	50	4178000341	Bracket	4
21	4812000052	Shim	16	51	7115181050	Hex Head Capscrew	16
22	7585000011	Latch	4	52	7950180153	Flatwasher	16
23	7114100418	CapscREW	28	53	7690000810	Cotter Pin	4
24	7585000013	Latch Roller	8	54	4679000136	Wear Pad	4
25	4178000337	Bracket	8	55	8632000011	Rubber Seal	12 ft.
26	7796000031	Gasket	4	56	7115162250	Hex Head Capscrew	12
27	7660152601	Locknut	12	57	7950160161	Flatwasher	24
28	7843000020	Gas Spring	4	58	7660160001	Nut	12
29	7178000023	Ball Stud Bracket	4	59	4062000243	Backing Bar	8
30	7865000001	Thread Ball Stud	4	60	3502740116	Toolbox Assy RH	1



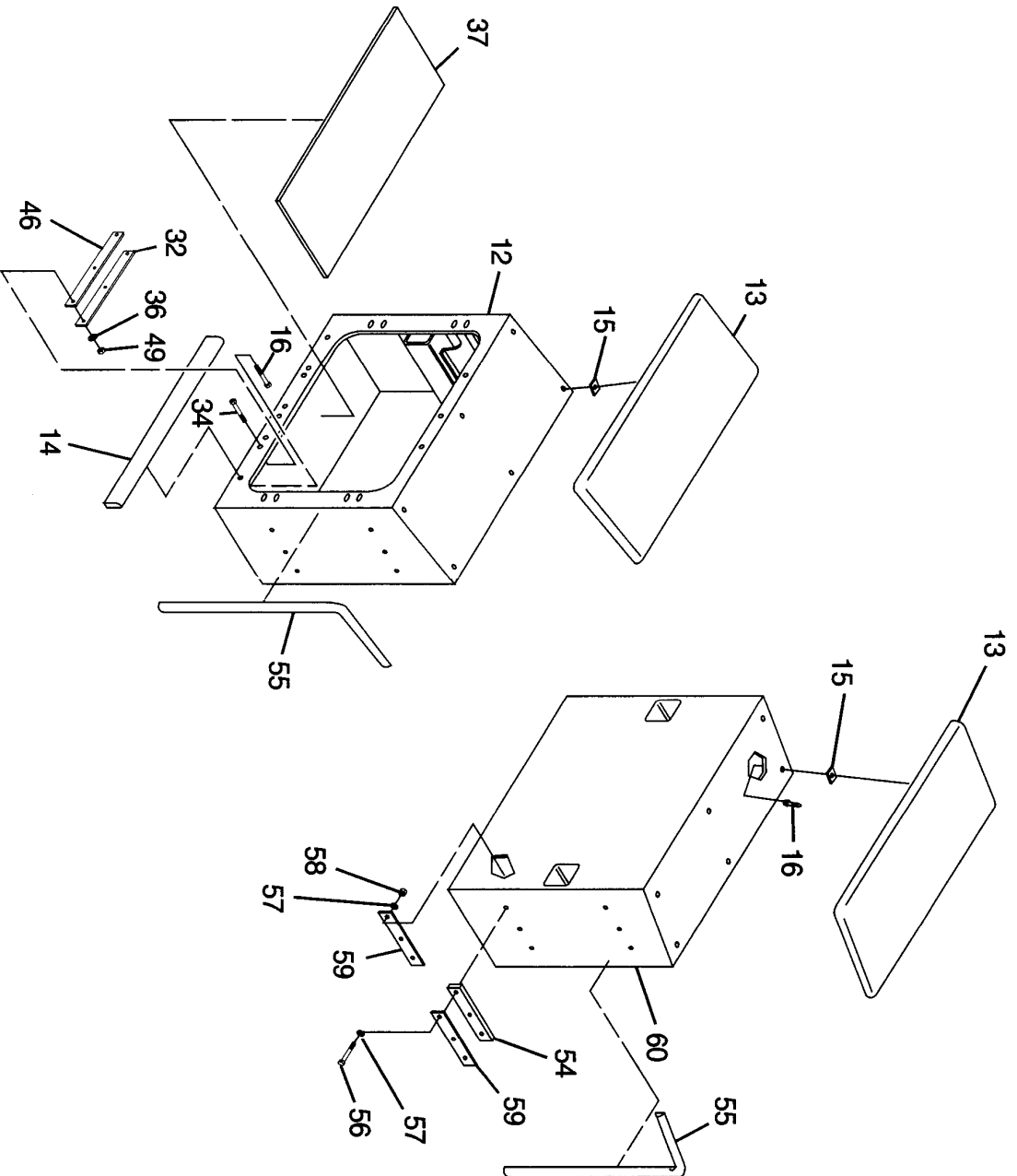
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STAND-ALONE TOOLBOX - 49"



STAND-ALONE TOOLBOX - 49"



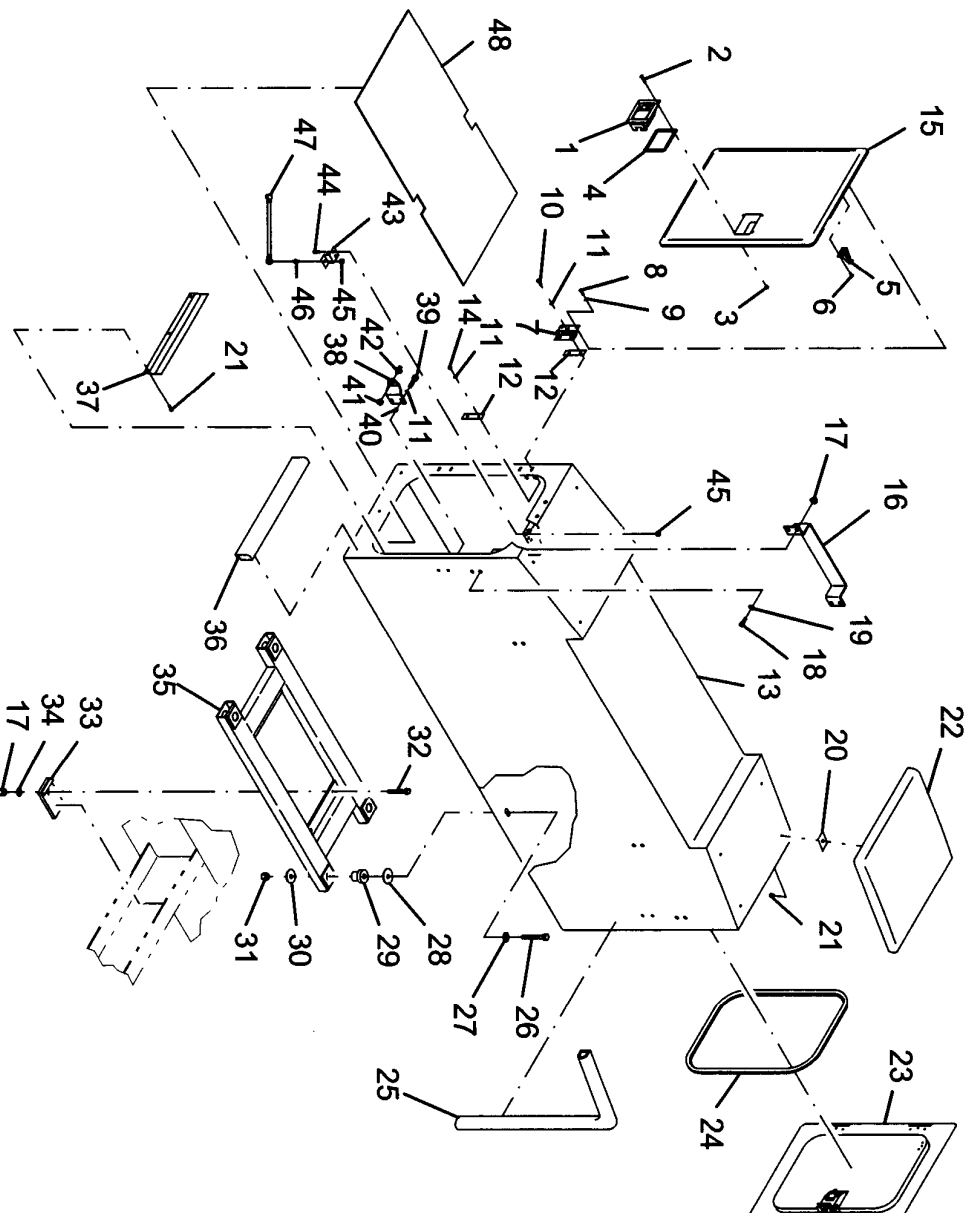
PARTS LIST — 3/4 HEIGHT TUNNEL TOOLBOX - 24"

Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	7595000005	Latch Paddle	2	26	7115202850	Capscrew	4
2	7114100818	Capscrew	8	27	7950200161	Flatwasher	4
3	7660102601	Nut	8	28	7949000019*	Washer	16
4	7796000038	Gasket	2	29	7636000008	Mount	4
5	7178000023	Bracket Ball Stud	2	30	7949000020*	Washer	8
6	7114100418	Capscrew	6	31	7660200001	Nut	4
7	7555000002	Hinge	4	32	7115182050	Capscrew	4
8	7114140418	Capscrew	12	33	3274000011	Clamp Weldment	4
9	7950140500	Lockwasher	12	34	7950180252	Flatwasher	4
10	7114140818	Capscrew	8	35	3911000033	Tube Weldment	1
11	7950140161	Flatwasher	20	36	7686000019	Filler Strip	2
12	4812000052	Shim	8	37	4811000135	Sheet	2
13	3503740015	Box Bondment	1	38	4178000222	Bracket	2
14	7660142601	Locknut	1	39	7115140850	Capscrew	4
15	4686000085	Panel Door, LH	8	40	7413000002	Nutsert	4
16	4178000229	Bracket	4	41	7661000021	Locknut	2
17	7660182301	Locknut	20	42	7585000004	Latch Striker	2
18	7115181050	Capscrew	16	43	4178000250	Bracket	2
19	7950180153	Flatwasher	16	44	7115150650	Capscrew	4
20	7686000008	Toolbox Cap	2	45	7660152601	Locknut	6
21	7790141651	Screw	14	46	7865000001	Ball Stud	2
	7790142051	Screw (use with 4679000121)	14	47	7843000020	Spring Gas	2
22	4679000120	Rubber Pad	8	48	4679000133	Pad Rubber	2
	4679000121	Rubber Pad (use with 7790142051)	8				
23	4686500086	Panel Door, RH	1				
24	4632000014	Seal	2				
25	8632000011	Rubber	2				

* 4 Required, install additional washers to set height of toolbox when misalignment occurs.



3/4 HEIGHT TUNNEL TOOLBOX - 24"

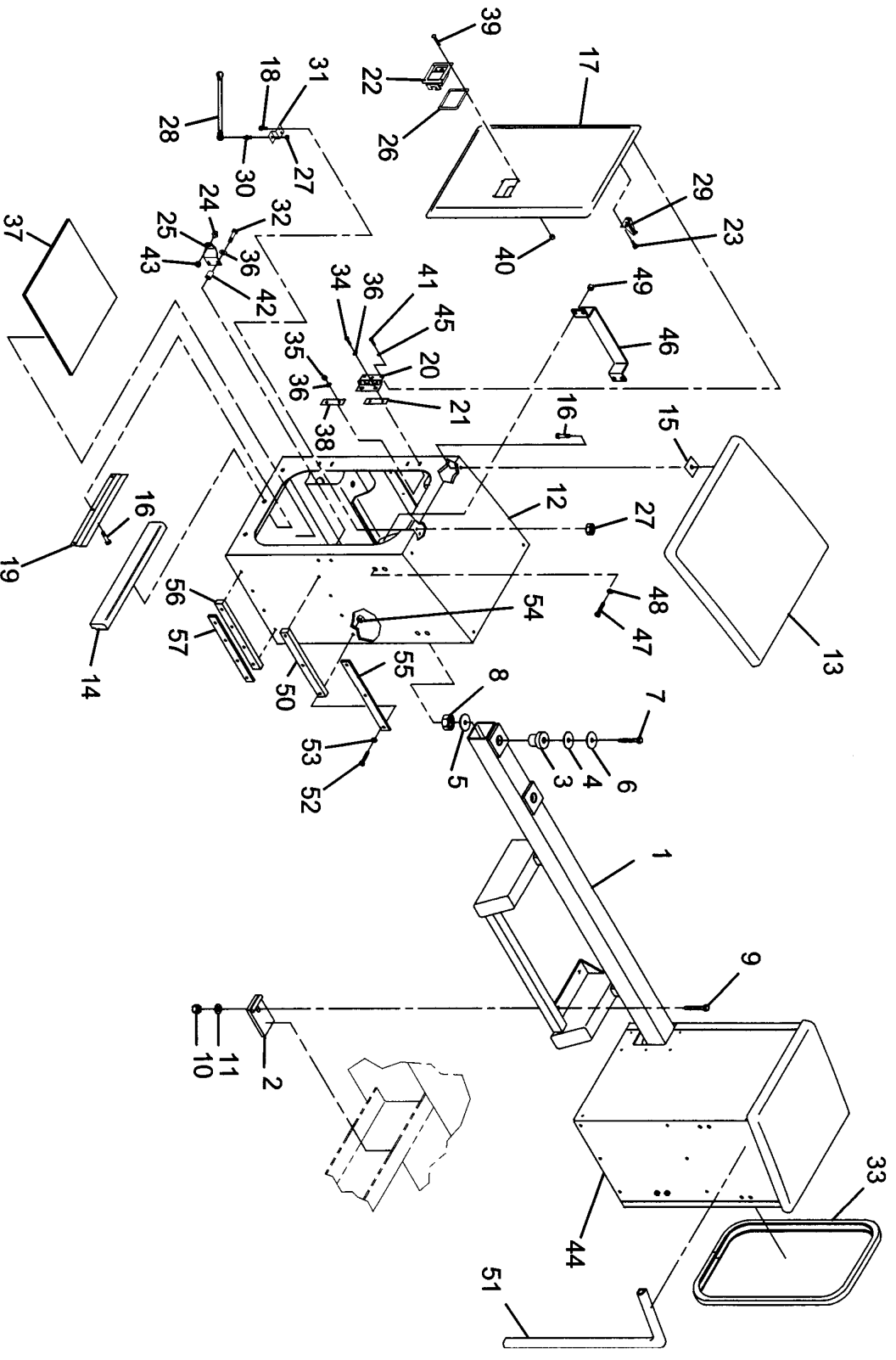


PARTS LIST — 3/4 HEIGHT STAND-ALONE TOOLBOX - 24"

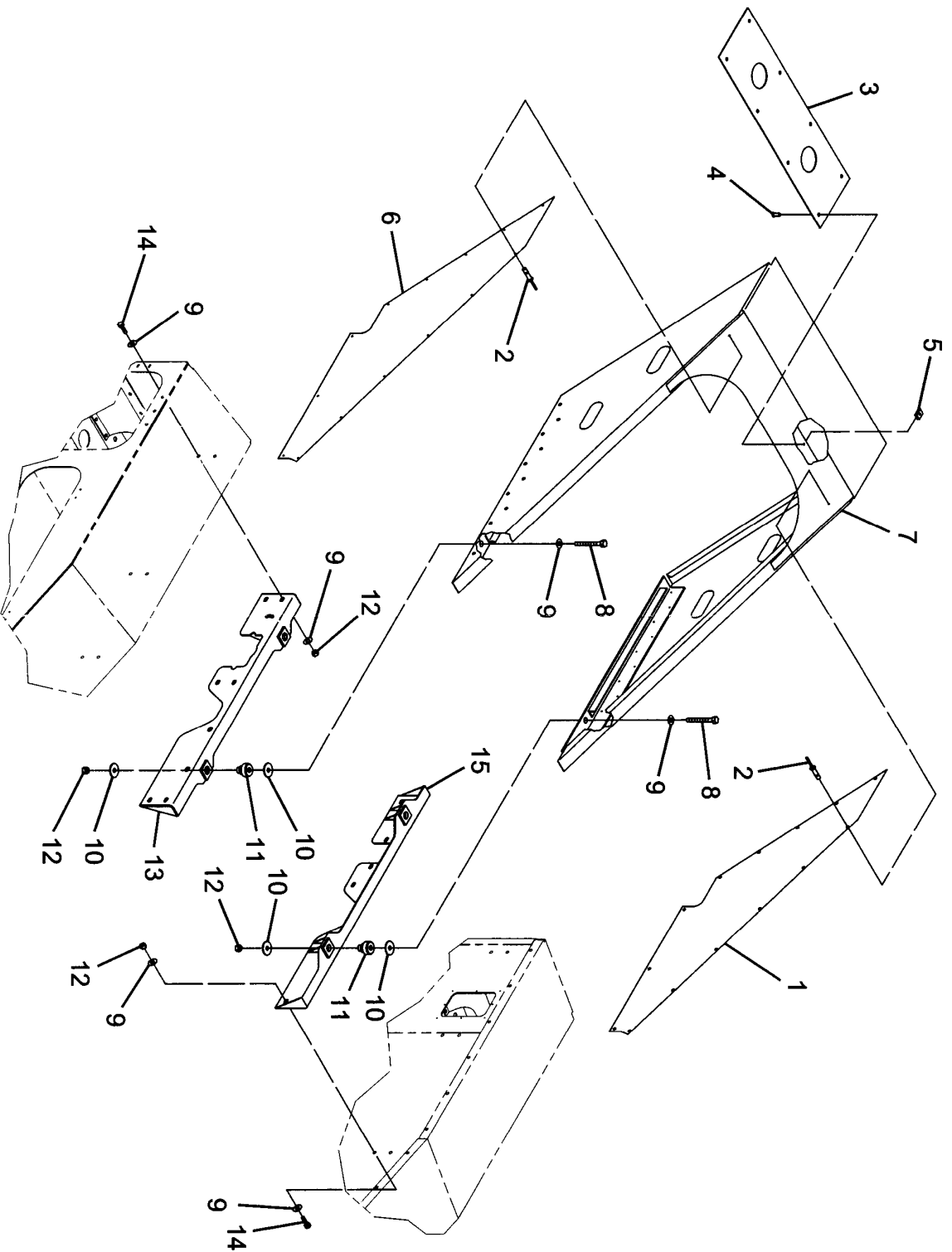
Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	3868000157	Subframe Weld	1	31	4178000240	Bracket	2
2	3274000011	Clamp Weldment	4	32	7115140850	Hex Head Capscrew	4
3	7636000007	Mount	4	33	4632000012	Seal	2
4	7949000017	Washer Head	8	34	7114140818	Capscrew	8
5	7949000018	Washer Tail	4	35	7660142601	Locknut	8
6	7950220161	Flatwasher	4	36	7950140161	Flatwasher	20
7	7115223250	Hex Head Capscrew	4	37	4679000115	Rubber Pad	2
8	7660220001	Nut	4	38	4062000173	Bar	4
9	7115182050	Hex Head Capscrew	4	39	7114100818	Capscrew	8
10	7660182301	Locknut	4	40	7660102601	Nut	8
11	7950180252	Flatwasher	4	41	7114140418	Capscrew	12
12	3502740096	Bondment LH	1	42	7413000002	Nutsert	4
13	7686000008	Panel Composite - Toolbox Cap	2	43	7661000021	Locknut	2
14	7686000019	Panel Composite - Filler Strip	2	44	3502740103	Bondment RH	1
15	4679000121	Rubber Pad	8	45	7949000025	Lockwasher	12
16	7790142051	Hex Head Screw	14	46	4178000270	Bracket	4
17	4686000072	Panel Door	2	47	7115181050	Hex Head Capscrew	16
18	7115150650	Hex Head Capscrew	4	48	7950180153	Flatwasher	16
19	4811000341	Alum Sheet	2	49	7660182301	Locknut	16
20	7555000002	Hinges	4	50	4679000186	Spacer Pad	2
21	4812000052	Shim	4	51	8632000011	Rubber Seal	10 ft.
22	7595000005	Latch Paddle	2	52	7115162250	Hex Head Capscrew	14
23	7114100418	Capscrew	6	53	7950160161	Flatwasher	28
24	7585000004	Latch Striker	2	54	7660160001	Nut	14
25	4178000222	Bracket	2	55	4062000374	Alum Bar	4
26	7796000038	Gasket	2	56	4679000187	Spacer Pad	2
27	7660152601	Locknut	6	57	4062000375	Alum Bar	2
28	7843000020	Gas Spring	2				
29	7178000023	Ball Stud Bracket	2				
30	7865000001	Thread Ball Stud	2				



3/4 HEIGHT STAND-ALONE TOOLBOX - 24"



HEADBOARD/LIGHT PYLON



PARTS LIST — HEADBOARD/LIGHT PYLON

Ref. No.	Part No.	Description	Qty.
1	4707000109	Plate, RH - 39" High Headboard	1
	4707000107	Plate, RH - 29" High Headboard	
2	7759000008	Rivet - 39" High Headboard	28
	7759000008	Rivet - 29" High Headboard	26
3	4707000105	Plate	1
4	7114140518	Capscrew	8
5	7661000019	U-Nut	8
6	4707000108	Plate, LH - 39" High Headboard	1
	4707000106	Plate, LH - 29" High Headboard	
7	3241000079	Headboard Assembly - 39"	1
	3241000077	Headboard Assembly - 29"	
8	7115182850	Capscrew	4
9	7950180161	Flatwasher	24
10	7949000021	Washer	8
11	7636000009	Mount	4
12	7660182601	Locknut	16
13	3178000242	Bracket Weldment, LH	1
14	7115181250	Capscrew	12
15	3178000243	Bracket Weldment, RH	1



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PARTS LIST — BODY LIGHTS - 86"

Ref. No.	Part No.	Description	Qty.
1	7114100610	Screw	8
2	7661000002	Hex Nut w/Lockwasher	12
3	7346000077	Guard	2
4	7346000076	Gasket	2
5	7590000104	Light	2
6	7661000024	Nut	16
7	7188000001	Bulb	4
8	7188000002	Bulb	4
9	7590000092	Tail Light	2
10	7114101210	Screw	16
11	7590000093	Tail Light	2
12	7590000011	Light	2
13	7590000096	Light	2
14	7346000078	Boot	1
15	7346000055	Socket	1
16	7870000042	Switch Panel	1
17	7790141651	Screw	6
18	7870000044	Power Dist. Panel	1
19	7660142601	Locknut	4
20	7950140151	Flatwasher	10
21	7115140650	Capscrew	4
22	7112101411	Screw	4
23	4346000003	Junction Box	1
24	7790100856	Screw	32
25	7590000094	Light Assembly w/Switch	8
26	7457000011	Fuse, 10 Amp	3
27	7457000012	Fuse, 20 Amp	16
28	7457000019	Fuse, 5 Amp	6
29	7661000023	Nut w/Ext Lockwasher	18
30	7457000006	Fuse, 15 Amp	1
31	7457000023	Fuse, 20 Amp	2
32	7457000013	Fuse, 15 Amp	2
33	7740000001	Relay	14

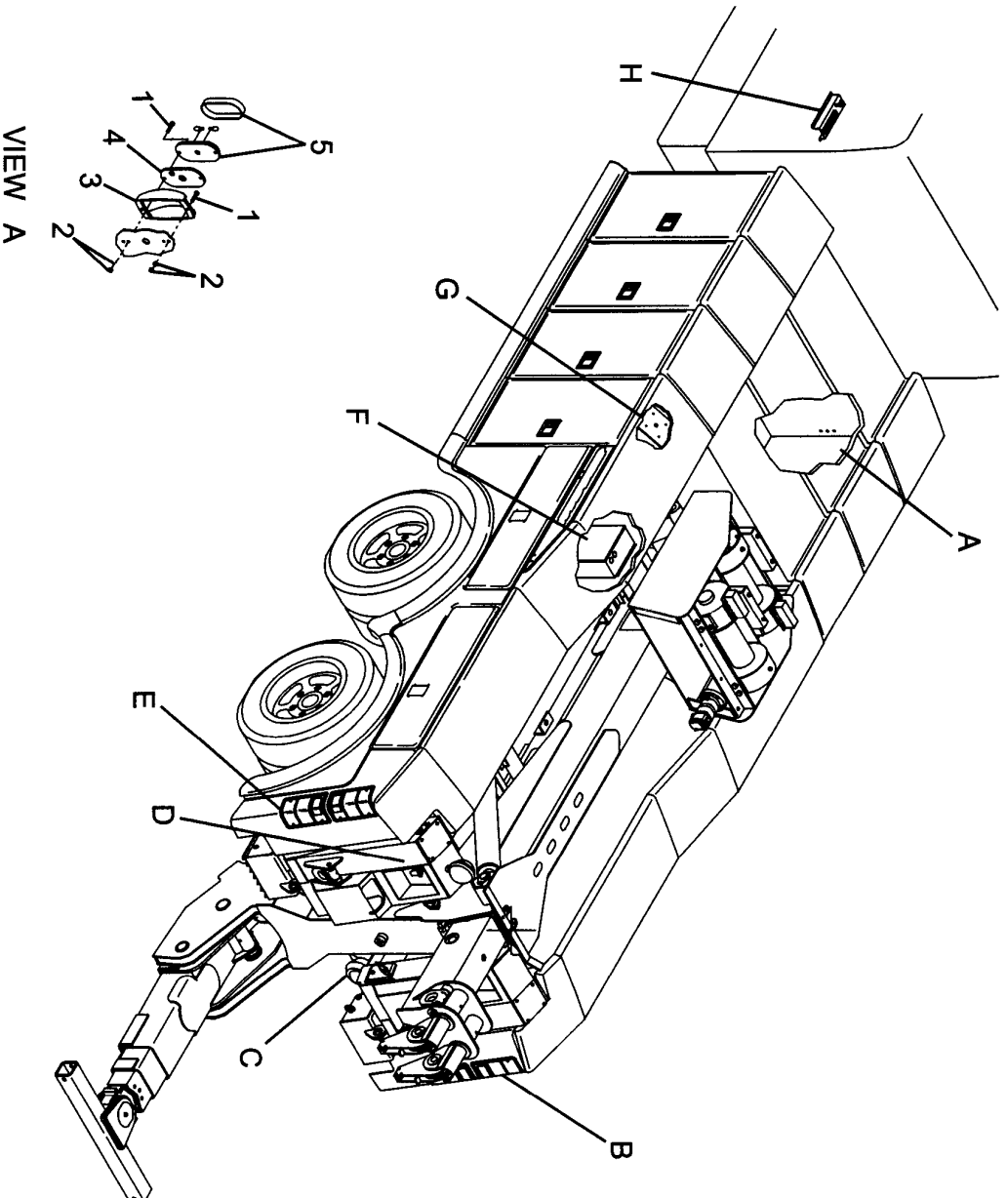


C-58

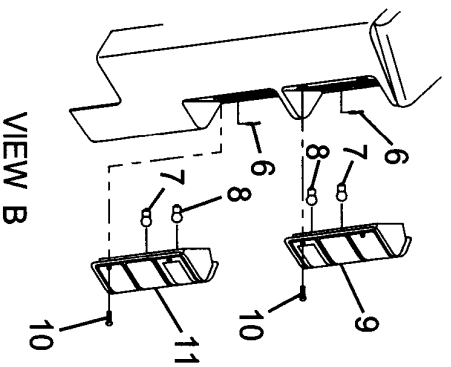
Rev. _____

Date _____

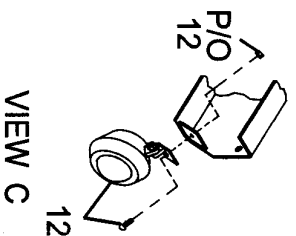
BODY LIGHTS - 86"



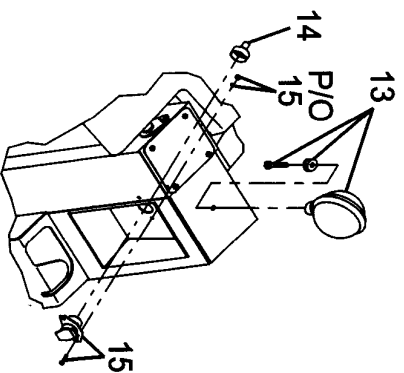
BODY LIGHTS - 86"



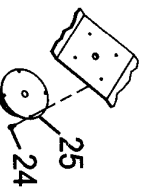
VIEW B



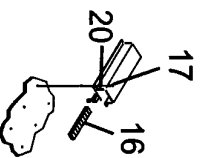
VIEW C



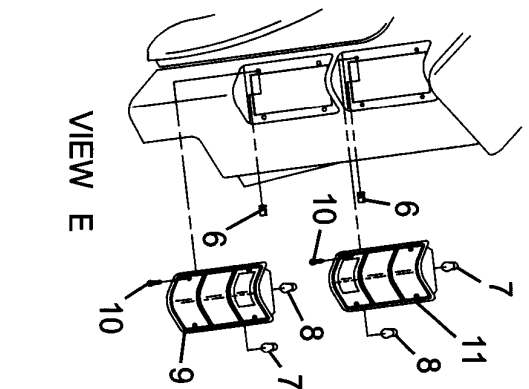
VIEW D



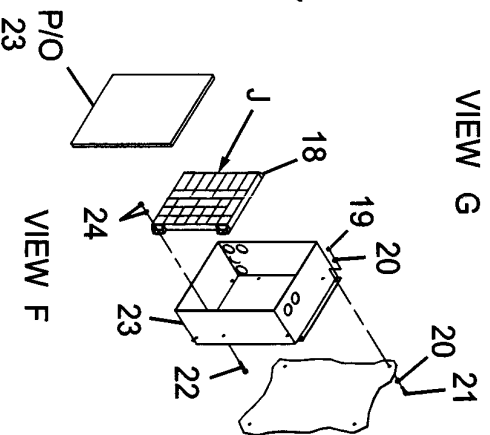
VIEW E



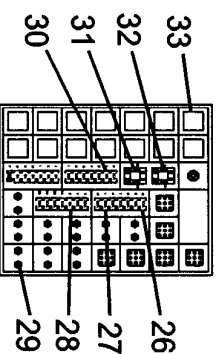
VIEW F



VIEW G



VIEW H



VIEW J

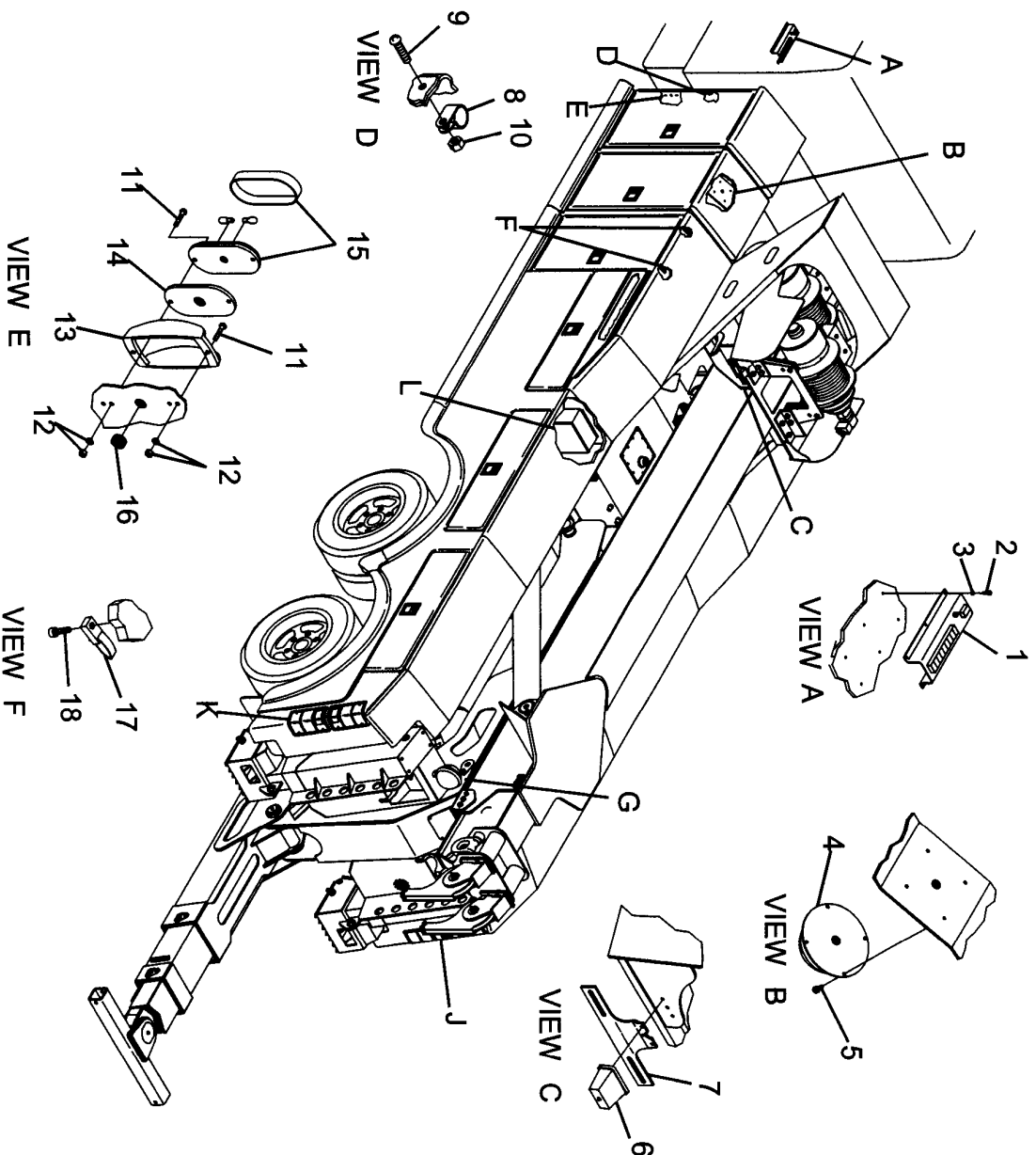
PARTS LIST — BODY LIGHTS - 146"

Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	7870000042	Switch Panel	1	28	7590000126*	Chrome Work Light	2
2	7790141651	Hex Head Screw	6	29	7120000028*	Screw	8
3	7950140151	Flatwasher	10	30	7661000023*	Nut w/Lockwasher	10
4	7590000094	Light Assembly w/Switch	14	31	7345211702*	Ring Terminal	2
5	7790100856	Screw	56	32	7590000092	Tail Light, RH	2
6	7590000105	License Plate Light	1	33	7114101210	Screw	16
7	7178000025	License Plate Bracket	1	34	7590000093	Tail Light, LH	2
8	7274000036	Clamp	8	35	7661000024	Nut	16
9	7114100618	Capcrew	8	36	7188000001	Bulb	4
10	7660102601	Nut	8	37	7188000002	Bulb	4
11	7114100610	Screw	8	38	4346000004	Junction Box	1
12	7661000002	Nut w/Lockwasher	12	39	7870000044	Power Dist. Panel	1
13	7346000077	Guard	2	40	7115140650	Capcrew	4
14	7346000076	Gasket	2	41	7660142601	Locknut	4
15	7590000104	Light	2	42	7115101411	Screw	4
16	7493000017	Grommet	2	43	7493000014	Grommet	3
17	7894000031	Cable Tie	4	44	7457000012	20 Amp Fuse	7
18	7790141656	Screw	4	45	7115140425	Screw	1
19	7346000055	Socket	1	46	7457000006	15 Amp Fuse	1
20	7346000078	Socket Boot	1	47	7457000011	10 Amp Fuse	3
21	7115150864	Carriage Bolt	2	48	7457000019	5 Amp Fuse	1
22	7950150161	Flatwasher	2	49	7661000023	Nut w/Lockwasher	11
23	7660152601	Locknut	2	50	7740000001	Relay	5
24	7590000096	Chrome Work Light	2	51	7493000011	Grommet	3
25	8597650002	Loom	3 ft.				
26	7590000089	Rubber Housed Multi-Purpose Light	2				
27	7274000026	Clamp	10				

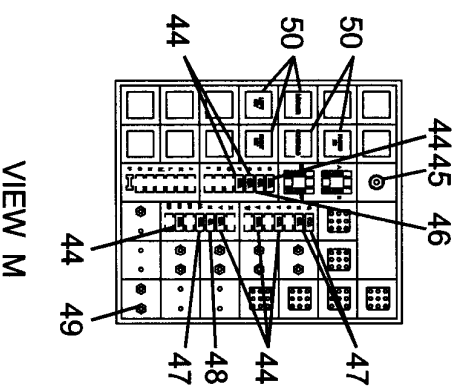
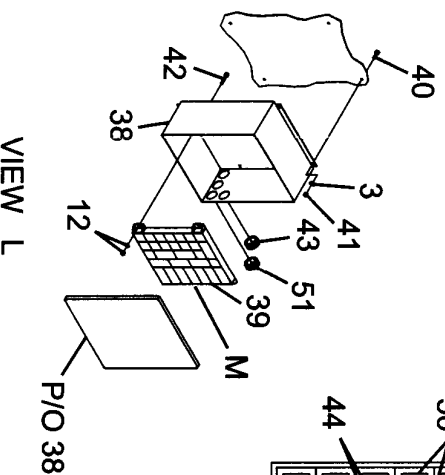
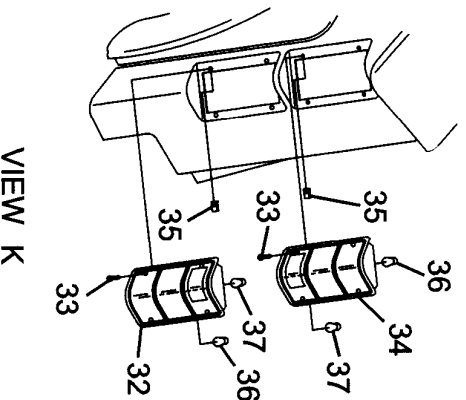
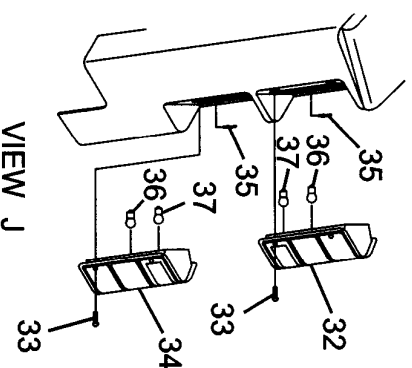
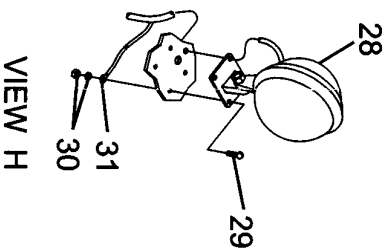
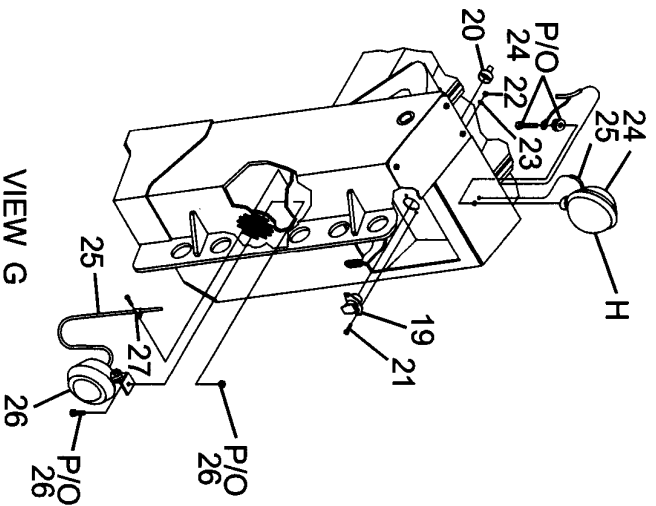
* Available only in Deluxe Hook-up Light Option



BODY LIGHTS - 146"



BODY LIGHTS -146"



**UNDERLIFT
GRID PARTS**

Cross Tube Installation	D-2
Frame Fork Assembly	D-5
Heavy Duty Tire Lift Assembly	D-6
Pintle Hook Assembly	D-9

PARTS LIST — CROSSTUBE INSTALLATION

Ref. No.	Part No.	Description	Qty.
1	7440003000	Grease Fitting	1
2	4691000242	Pivot Pin	1
3	3913000049	Crosstube Weldment	1
4	7754000042	Retaining Ring	1
5	4949000041	Shim .125 Thk	1
6	4949000042	Shim .06 Thk	1
7	7209000022	Bushing	1

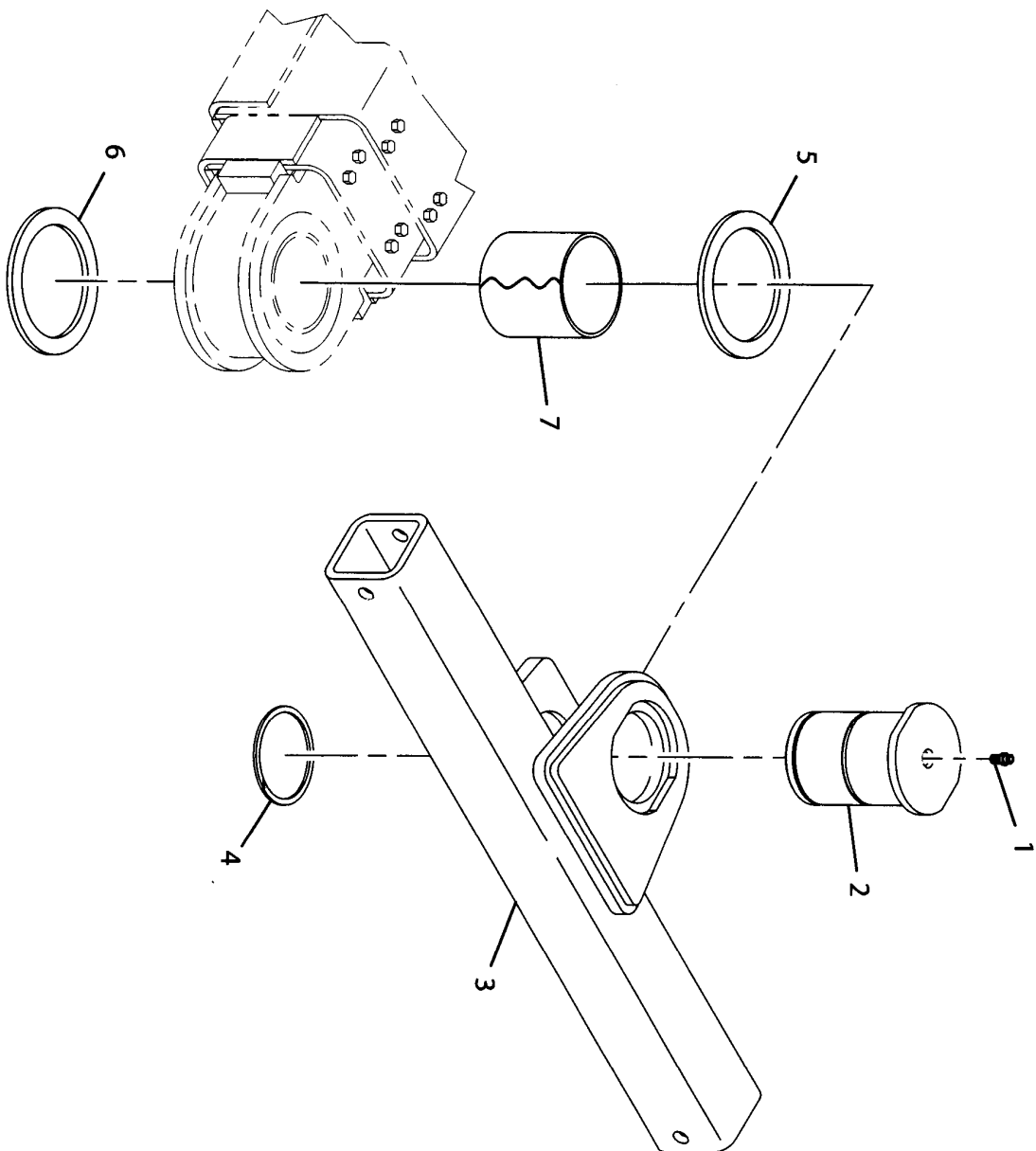


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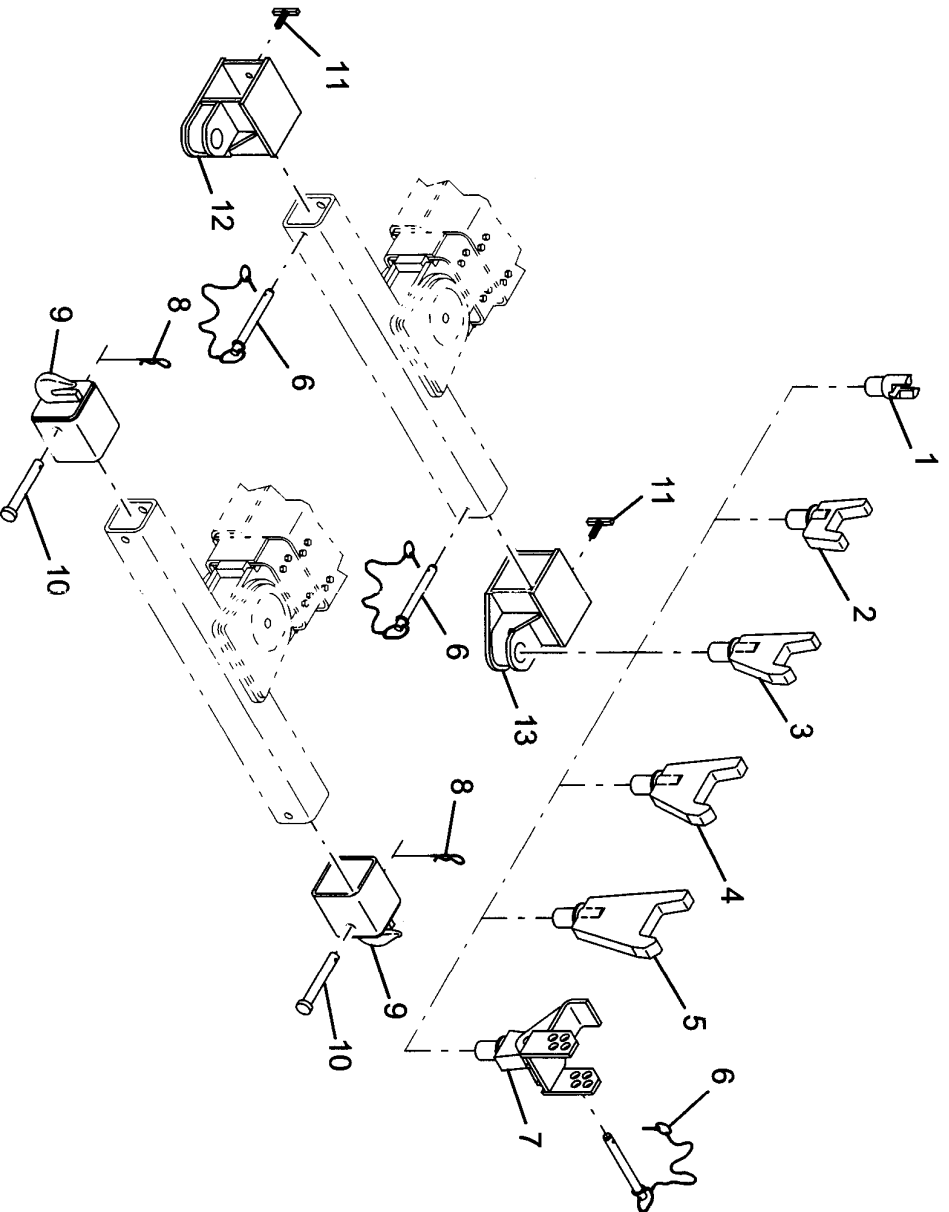
CROSSTUBE INSTALLATION



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Date _____

FRAME FORK ASSEMBLY



PARTS LIST — FRAME FORK ASSEMBLY

Ref. No.	Part No.	Description	Qty.
1	4007000007	Chain Adapter (Optional)	2
2	3454000006	Short Fork Weldment	2
3	3454000005	Narrow Fork Weldment	2
4	3454000003	Wide Fork Weldment	2
5	3454000004	Long Fork Weldment	2
6	7691000021	Hitch Pin	4
7	3178000226	Spring Lift Bracket	2
8	7691000020	Hairpin	2
9	3007000004	Chain Adapter	2
10	7691000022	Clevis Pin	2
11	3551000036	T-Handle Weldment	2
12	3007000007	Lift Receiver, RH	1
13	3007000006	Lift Receiver, LH	1
14	7262000026	Safety Chain (Not Shown)	2



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PARTS LIST — HEAVY DUTY TIRE LIFT ASSEMBLY

Ref. No.	Part No.	Description	Qty.
1	3484000048	Grid Weld RH	1
2	3484000049	Grid Weld LH	1
3	3020000082	Arm Weld RH	1
4	3020000081	Arm Weld LH	1
5	3913000055	Tube Weldment	2
6	3561000008	Hook Weldment	4
7	4561000012	Pull Hook	1
8	7894000037	Tie Strap - Yellow	2
	7894000041	Tie Strap - Orange	
9	7894000028	Ratchet Tie Strap	4
10	7691000026	Hitchpin	2
11	4691000274	Pin	2
12	7691000020	Hairpin	2
13	7330000278	Decal Bar Caution	4
14	7330000277	Placard	2
15	7759000004	Pop Rivet	8
16	7691000021	Pin	2

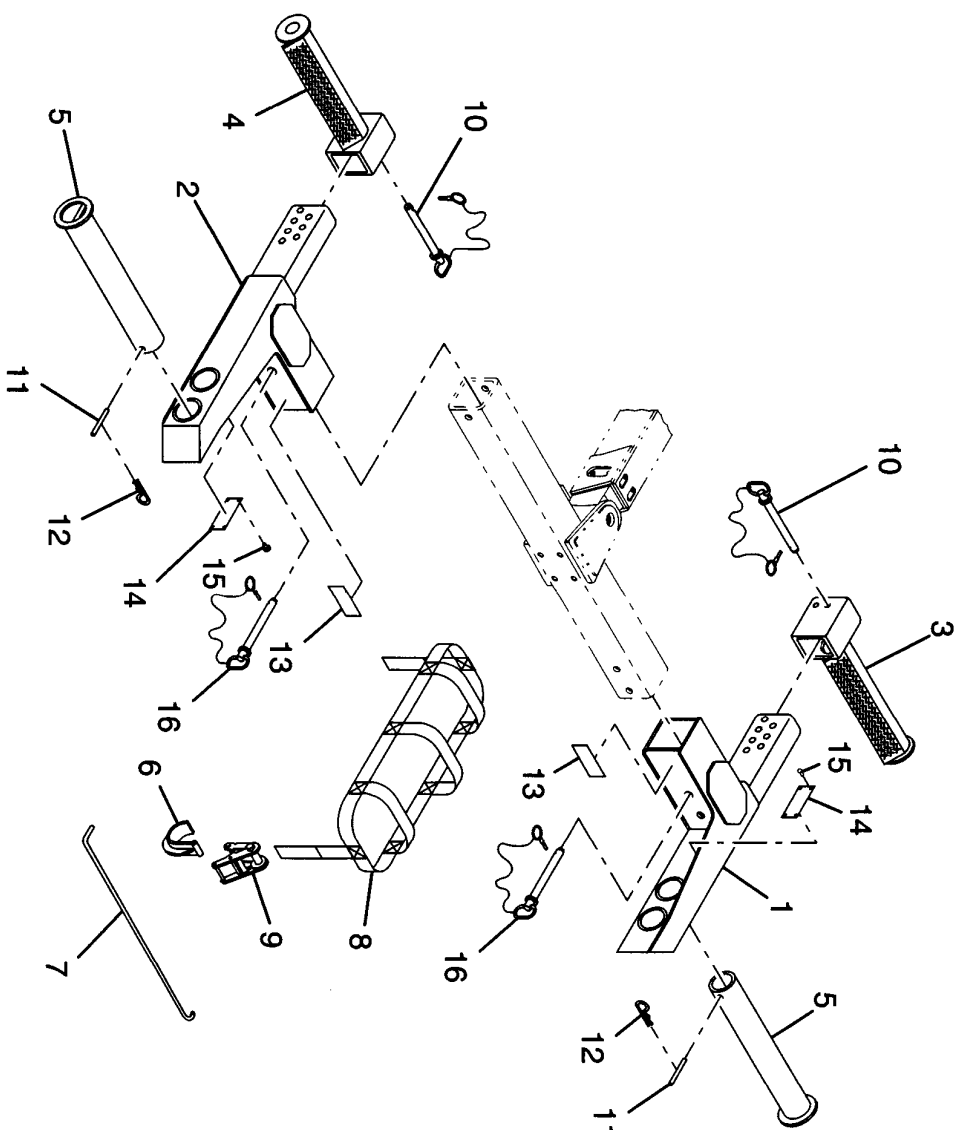


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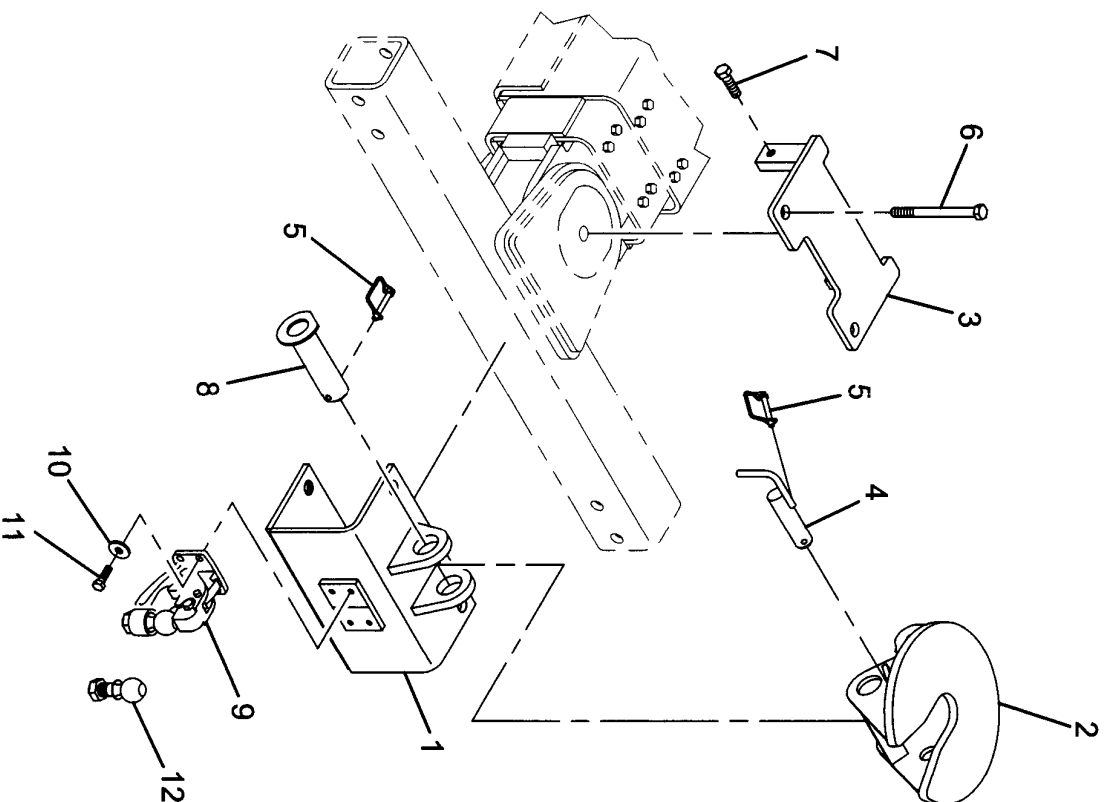
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HEAVY DUTY TIRE LIFT ASSEMBLY



5TH WHEEL AND PINTLE HOOK ADAPTER



PARTS LIST — 5TH WHEEL AND PINTLE HOOK ADAPTER

Ref. No.	Part No.	Description	Qty.
1	3178000240	Adapter Bracket	1
2	3178000239	5th Wheel Plate Bracket	1
3	3706000080	Adapter Bracket Plate	1
4	3691000145	5th Wheel Pin	1
5	7691000025	Snap Pin	2
6	7118267250	Capscrew	2
7	7118221650	Capscrew	2
8	3691000144	Pin	1
9	7561000020	Dual Purpose Hitch with 2" Ball (Domestic)	1
	7561000022	Dual Purpose Hitch with 50mm Ball (Foreign)	1
10	7950180000	Lockwasher	4
11	7115181250	Capscrew	4
12	7056000003	1 7/8" Ball Replacement	1
	7056000004	2" Ball Replacement	
	7056000005	2 5/16" Ball Replacement	
	7056000006	50mm Ball Replacement	



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**WRECKER BOOM
PARTS**

Wrecker Boom Assembly E-2

Boom Extension Cylinder (7320000037) E-5

25,000 LB Ramsey Worm Gear Winch Installation E-6

25,000 LB Ramsey Planetary Gear Winch Installation E-9

25,000 LB Ramsey Worm Gear Winch Parts E-10

25,000 LB Ramsey Planetary Gear Winch Parts E-13

PARTS LIST — WRECKER BOOM ASSEMBLY

Ref. No.	Part No.	Description	Qty.
1	3170000175	Outer Boom	1
2	3170000172	Inner Boom	1
3	7320000037	Wrecker Boom Extension Cylinder	1
4	4691000323	Pin	1
5	4691000208	Pin	1
6	4706002435	Plate	1
7	4679000163	Nylatron Pad	1
8	4679000162	Nylatron Pad	2
9	4177000033	Brace	2
10	7754000048	Retaining Ring	2
11	7115164450	Capscrew	2
12	7115180750	Capscrew	2
13	7115180850	Capscrew	2
14	7950160251	Flatwasher	4
15	7660161600	Locknut	2
16	7950180153	Flatwasher	6
17	4831000061	Spacer	2
18	7115181450	Capscrew	2
19	4062000158	Bar	1
20	4831000064	Spacer	2
21	7950180000	Lockwasher	4
22	7754000061	Retaining Ring	2
23	7114140418	Capscrew	1
24	4754000003	D-Ring	2
25	4691000243	Pin	1
26	7690142845	Spring Pin	2
27	7262000025	Chain	2
28	7115201250	Capscrew	2
29	7660202601	Locknut	2
30	4706001799	Plate	2
31	7120000025	Ring	2
32	7660182600	Locknut	2
33	7189000014	Rubber Spring	2
34	4679000168	Nylatron Pad	2

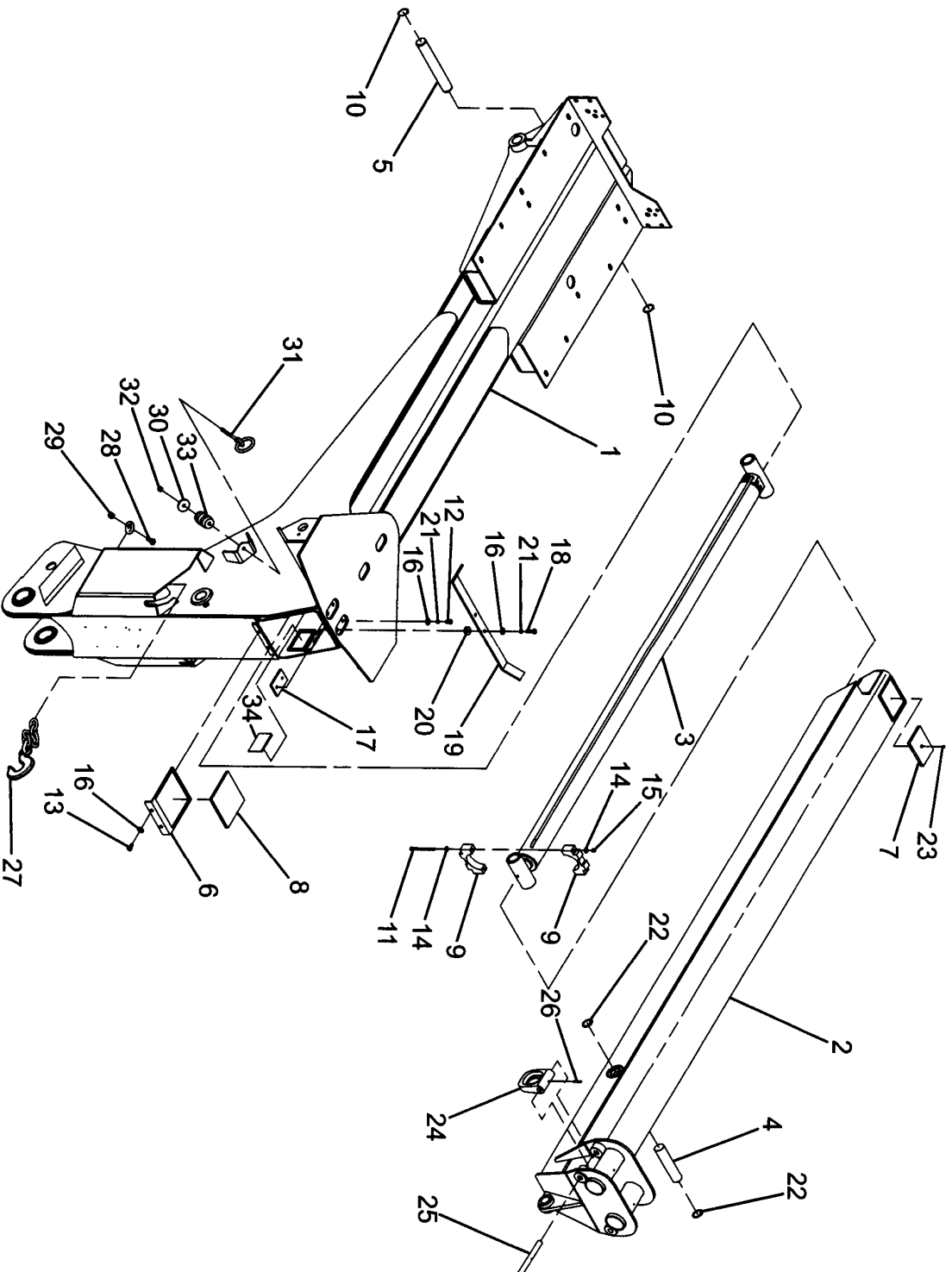


E-2

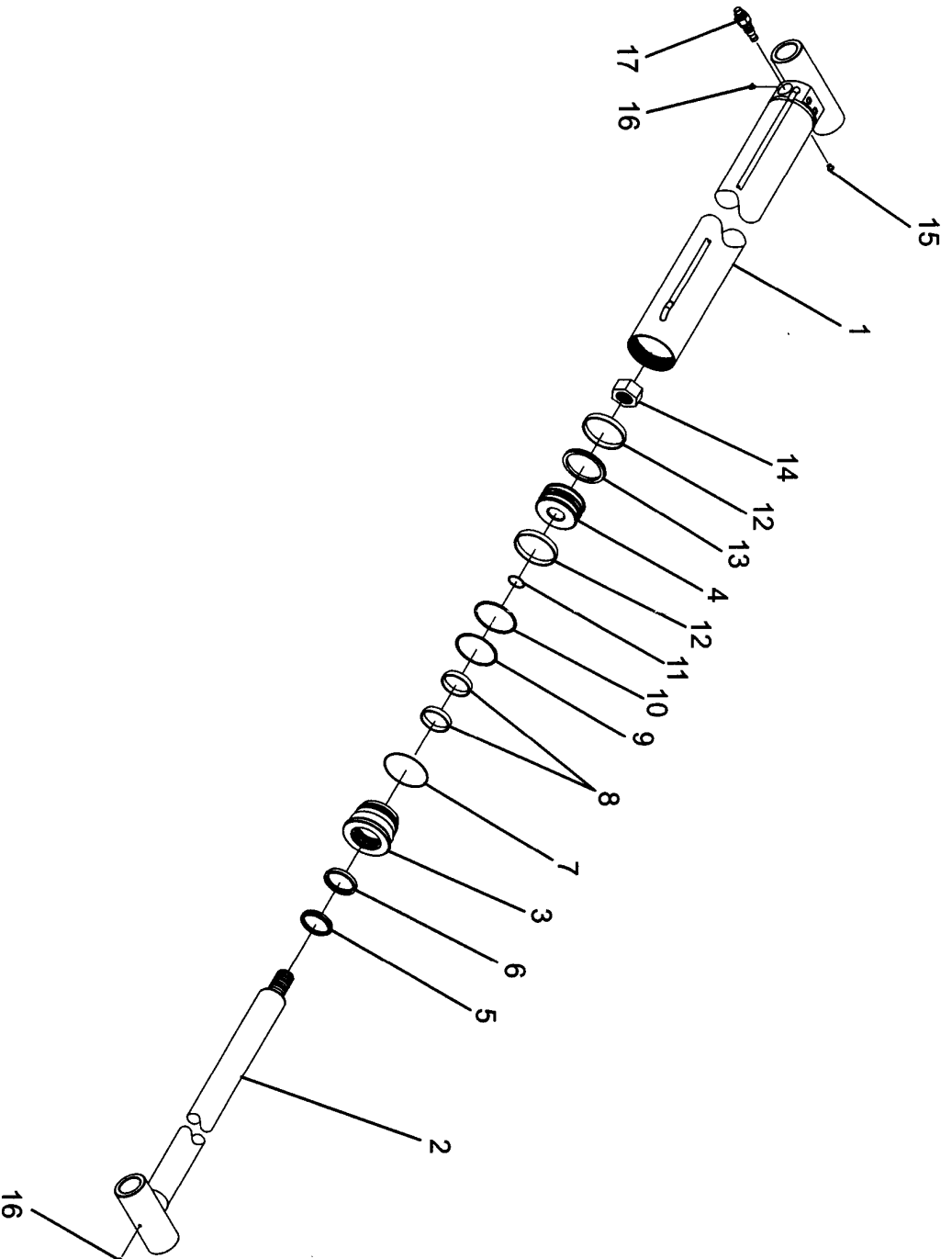
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Date _____

WRECKER BOOM ASSEMBLY



BOOM EXTENSION CYLINDER 7320000037



PARTS LIST — BOOM EXTENSION CYLINDER
7320000037

Ref. No.	Part No.	Description	Qty.
1	9912250022	Tube Assembly	1
2	9763250028	Rod Assembly	1
3	9553250010	Head	1
4	9698250012	Piston	1
5	9796250081*	Wiper Seal	1
6	9796250070*	Seal	1
7	9796250066*	O Ring Seal	1
8	9754250020*	Wear Ring	2
9	9754250009*	Back-up Ring	1
10	9796250057*	O Ring Seal	1
11	9796250061*	O Ring Seal	1
12	9754250014*	Wear Ring	2
13	9796250073*	Seal	1
14	9661250016	Locknut	1
15	9701250017	Port Plug	1
16	7440030400	Grease Fitting	2
17	9935250032	Counterbalance Valve	1

Available only in Service Kit #7577250228



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**PARTS LIST — 25,000 LB RAMSEY WORM GEAR WINCH
INSTALLATION**

Ref. No.	Part No.	Description	Qty.
1	3636000067	Worm Winch Mount	1
2	7970000078	Winch	1
3	7970000077	Winch	1
4	7118181016	Capscrew	4
5	7660182301	Locknut	4
6	7118221816	Capscrew	8
7	7660222308	Locknut	8
8	7118201616	Capscrew	12
9	7661000018	Nut	12
10	7248000040	Cable 5/8" x 200'	2
11	7754000049	Retaining Ring	2
12	7440003000	Lube Fitting	2
13	3249000010	Sheave Support Weldment	2
14	3691000129	Pin	2
15	7754000048	Retaining Ring	2
16	7809000002	Sheave	2
17	4949000031	Shim .06 Thk	4
	4949000032	Shim .09 Thk	
18	3249000001	Cable Guide Weldment	2
19	7115142050	Hex Head Capscrew	4
20	7660141600	Locknut	4
21	4249000001	Cable Guide	4

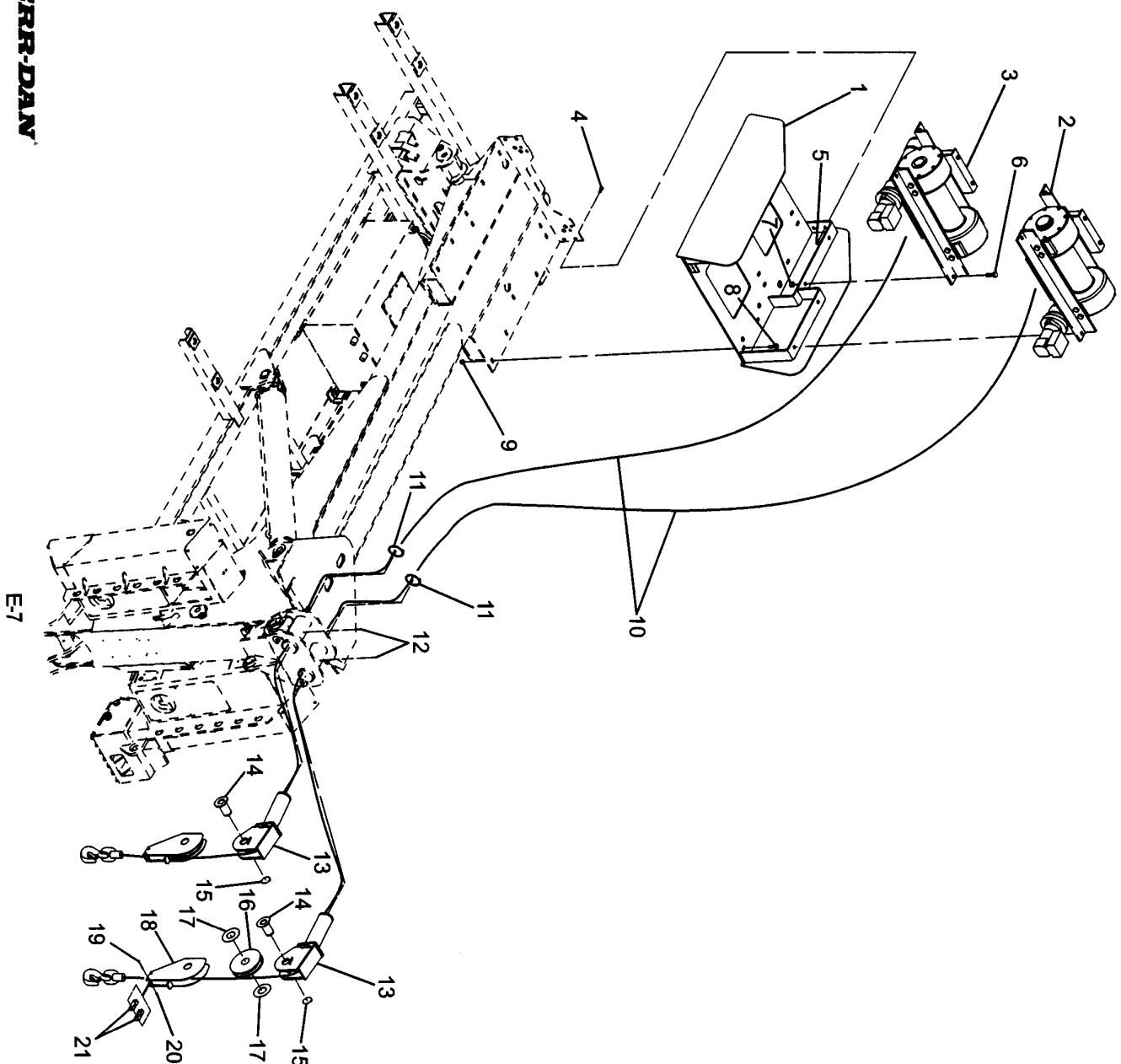


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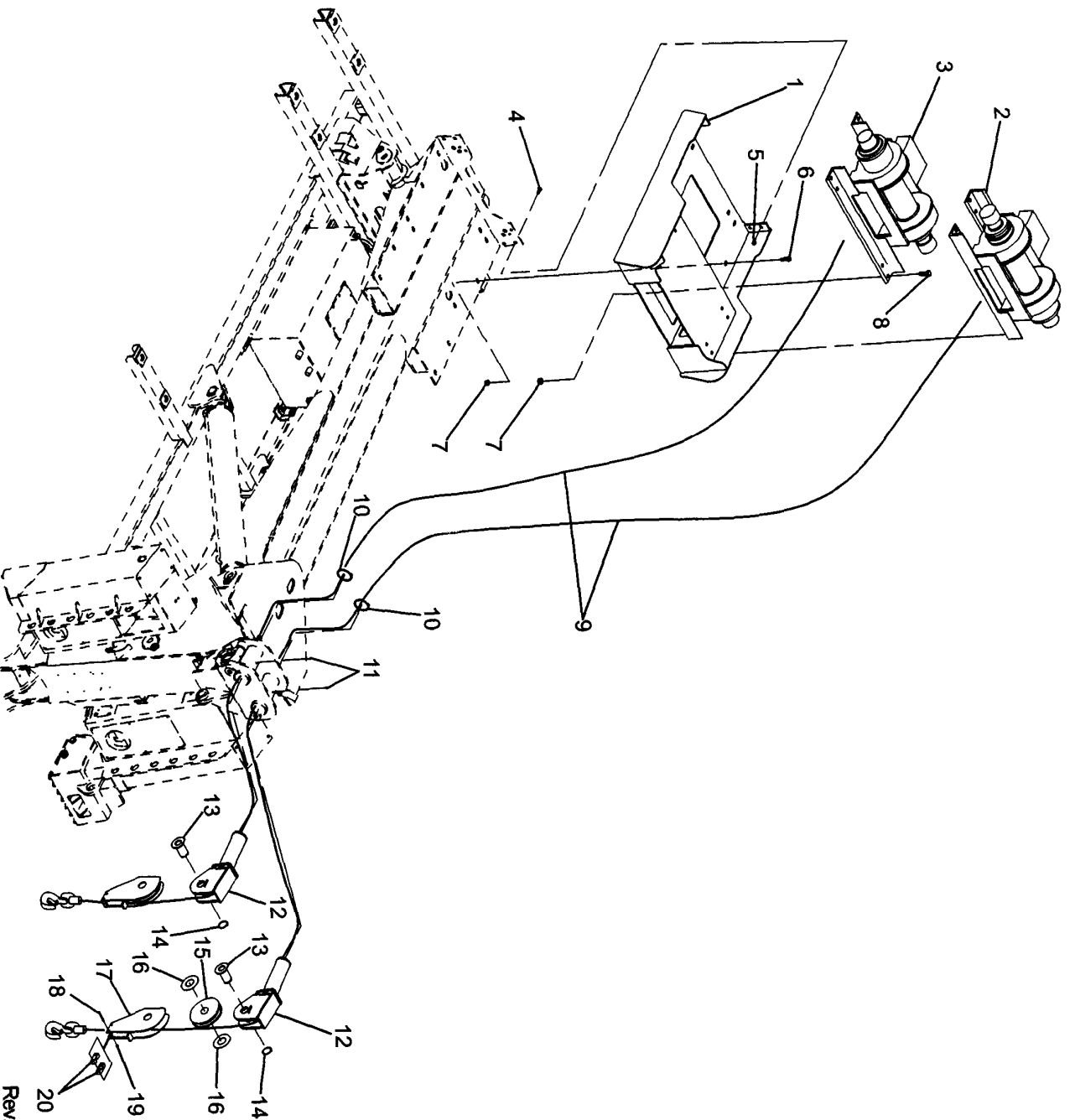
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25,000 LB RAMSEY WORM GEAR WINCH INSTALLATION



25,000 LB RAMSEY PLANETARY GEAR WINCH INSTALLATION (OPTIONAL)



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**PARTS LIST — 25,000 LB RAMSEY PLANETARY WINCH
INSTALLATION (OPTIONAL)**

Ref. No.	Part No.	Description	Qty.
1	3636000067	Planetary Winch Mount	1
2	7970000057	Winch	1
3	7970000058	Winch	1
4	7118181016	Capscrew	4
5	7660182301	Locknut	4
6	7118201616	Capscrew	16
7	7661000018	Locknut	22
8	7118202016	Capscrew	6
9	7248000040	Cable 5/8" x 200'	2
10	7754000049	Retaining Ring	2
11	7440003000	Lube Fitting	2
12	3249000010	Sheave Support Weldment	2
13	3691000129	Pin	2
14	7754000048	Retaining Ring	2
15	7809000002	Sheave	2
16	4949000031	Shim .06 Thk	4
	4949000032	Shim .09 Thk	
17	3249000001	Cable Guide Weldment	2
18	7115142050	Hex Head Capscrew	4
19	7660141600	Locknut	4
20	4249000001	Cable Guide	4



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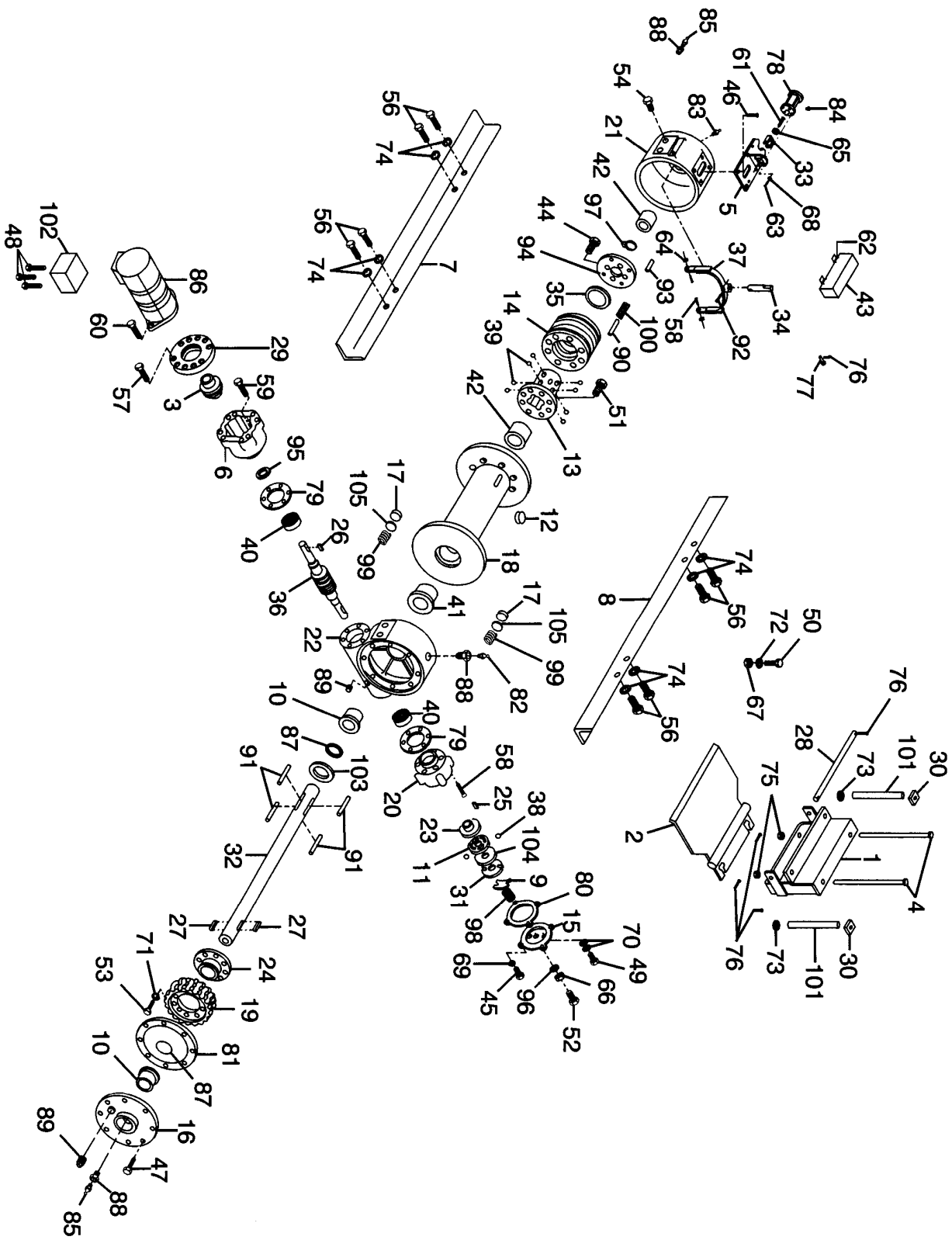
Date _____

PARTS LIST — 25,000 LB RAMSEY WORM GEAR WINCH PARTS

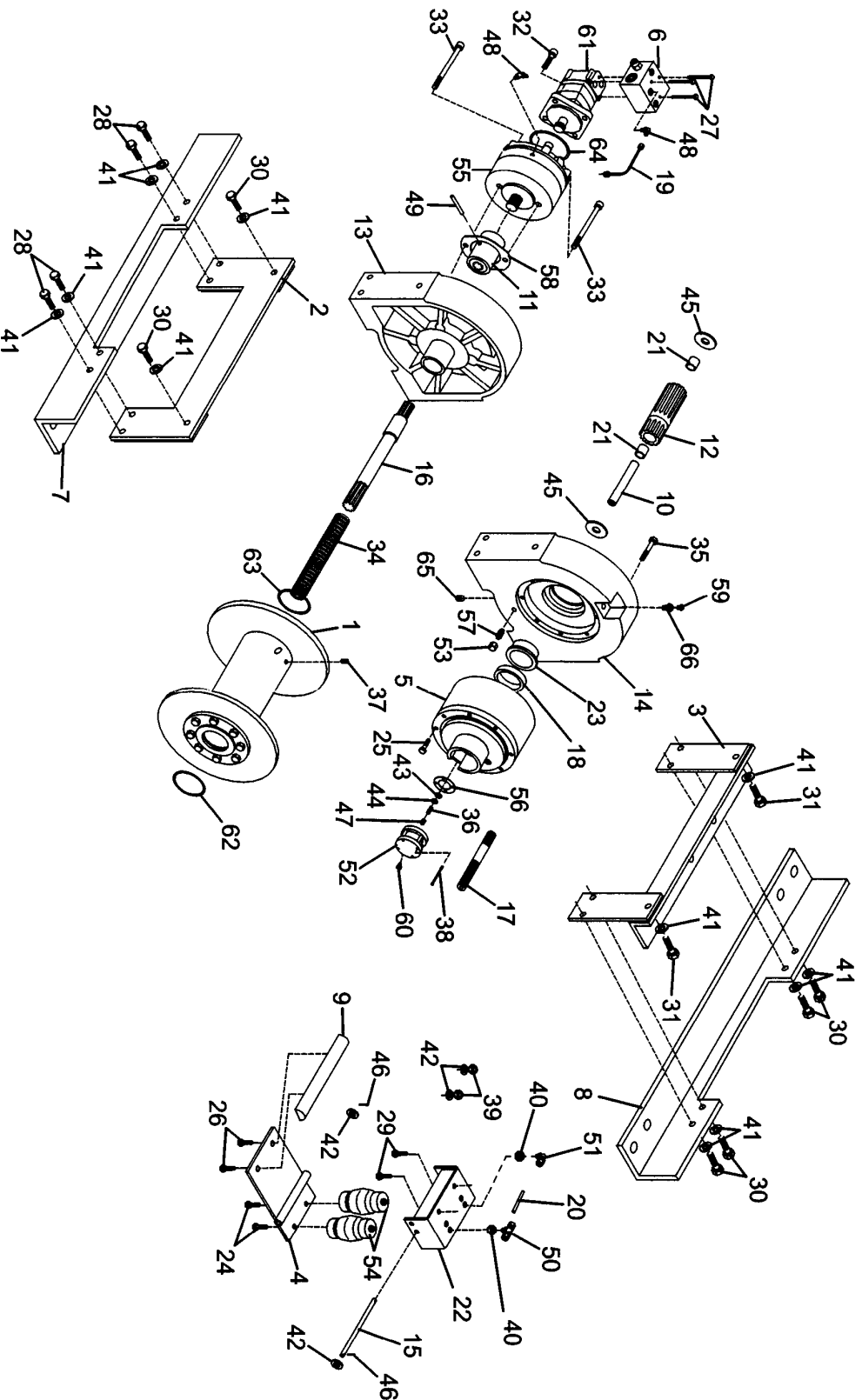
Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	9178960014	Bracket Assembly - Tensioner	1	54	9970414619	Capcrew	2
2	9706960045	Plate Tensioner	1	55	9120960037	Capcrew	4
3	9309960016	Coupling Assembly	1	56	9970414777	Capcrew	4
4	9763960020	Stud Assembly	2	57	9970414871	Capcrew	4
5	9178960015	Bracket Assembly - Air Cylinder	1	58	9970414897	Capcrew	8
6	9007960004	Adapter	1	59	9970414909	Capcrew	8
7	9017960006	Angle-Input Side	1	60	9120960027	Capcrew	6
8	9017960007	Angle-Brake Side	1	61	9786960009	Capcrew	2
9	9843960027	Spring Flat	1	62	9786960010	Setcrew	1
10	9209960027	Bushing	1	63	9786960011	Screw	4
11	9706960046	Cam Plate	2	64	9661960010	Screw	4
12	9970314010	Cable Anchor	1	65	9661960021	Nut	2
13	9970324151	Clutch	1	66	9970418067	Nut	1
14	9970324318	Locking Ring	1	67	9661960022	Nut	1
15	9314960023	Cover-Brake	1	68	9949960029	Lockwasher	2
16	9970328122	Cover-Gear Housing	1	69	9970418163	Lockwasher	4
17	9970330010	Shoe-Drag Brake	1	70	9970418184	Flatwasher	4
18	9970960022	Drum	2	71	9949960030	Lockwasher	8
19	9970334086	Gear RH	1	72	9949960031	Lockwasher	2
20	9560960016	Housing-Brake	1	73	9949960032	Washer	2
21	9970338235	Housing-Clutch	1	74	9970418249	Lockwasher	8
22	9970338242	Housing-Gear	1	75	9661960023	Nut	2
23	9309960013	Hub-Brake	1	76	9691960030	Cotter Pin	5
24	9970340068	Hub-Gear	1	77	9691960031	Clevis Pin	1
25	9970342053	Key	1	78	9320960001	Air Cylinder	1
26	9575960013	Key	1	79	9970442192	Gasket	2
27	9970342153	Key	1	80	9796960101	Gasket	1
28	9691960028	Pin-Pivot	2	81	9970442195	Gasket	1
29	9706960047	Plate-Hyd Adapter	1	82	9970456008	Fitting-Relief	1
30	9706960048	Plate-Spring	1	83	9970456031	Fitting-Lub	1
31	9706960028	Plate-Retainer	2	84	9183960002	Vent-Breather	1
32	9806960022	Shaft-Drum	1	85	9443960008	Fitting-Lube	2
33	9277960009	Clevis	1	86	9626960019	Motor-Hyd	1
34	9806960023	Shifter Shaft	1	87	9970468002	Ring-Quad	2
35	9970362224	Spacer	1	88	9970468011	Reducer	3
36	9970368082	Worm Gear RH	1	89	9970470042	Pipe Plug	2
37	9970370047	Yoke	1	90	9970470044	Pin-Roll	4
38	9970400007	Ball-Brake	2	91	9970470044	Pin-Dowel	4
39	9970400011	Ball-Clutch	8	92	9691960029	Roll Pin	1
40	9970402045	Bearing-Ball	2	93	9970470056	Pin-Roll	4
41	9970412051	Bushing	2	94	9970474030	Plate-Retainer	1
42	9970412052	Cover-Shifter	1	95	9970486068	Seal-Oil	1
43	9560960017	Capcrew	2	96	9796960123	Seal-Thread	1
44	9970414038	Capcrew	4	97	9970490025	Retainer Ring	1
45	7115150850	Capcrew	4	98	9970494010	Spring	1
46	9120960033	Capcrew	4	99	9970494022	Spring-Disc	2
47	9120960034	Capcrew	8	100	9970494069	Spring	4
48	7115160850	Capcrew	3	101	9843960033	Spring-Tensioner	2
49	9120960035	Capcrew	2	102	9935960033	Counterbalance Valve	2
50	7115181250	Capcrew	2	103	9970518016	Thrust Washer	1
51	9970414571	Capcrew	8	104	9180960011	Disc-Brake	1
52	9120960036	Capcrew	1	105	9970530094	Spacer-Brake	2
53	7108181650	Capcrew	8				



25,000 LB RAMSEY WORM GEAR



25,000 LB RAMSEY PLANETARY GEAR (OPTIONAL)



PARTS LIST — 25,000 LB RAMSEY PLANETARY GEAR WINCH PARTS (OPTIONAL)

Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	9970280023	Drum Assembly	1	36	9786960014	Setscrew	1
2	9455960006	Front Mounting Frame	1	37	9786960015	Setscrew	1
3	9455960007	Rear Mounting Frame	1	38	9120960046	Screw	4
4	9706960052	Tensioner Plate Assembly	1	39	9661960022	Nut	2
5	9472960060	Gear Box Assembly	1	40	9661960025	Nut	2
6	9935960038	RH Motor Control Valve	1	41	9949960031	Lockwasher	12
7	9935960039	LH Motor Control Valve	1	42	9949960033	Washer	4
	9017960010	RH Front Angle	1	43	9949960034	Thrust Washer	1
	9017960011	LH Front Angle	1	44	9661960026	Nut	1
8	9017960012	RH Rear Angle	1	45	9949960035	Nut	2
	9017960013	LH Rear Angle	1	46	9691960030	Nut	2
9	9064960003	Bar	1	47	9413960001	Cotter Pin	1
10	9309960015	Shaft Coupling	1	48	9443960010	Thread Insert	1
11	9309960016	Brake Coupling	1	49	9691960033	Fitting	2
12	9309960017	Output Coupling	1	50	9443960011	Spring Pin	1
13	9082960023	Motor End Bearing	1	51	9443960012	Fitting	1
14	9560960018	Gear Housing End Bearing	1	52	9320960004	Air Cylinder	1
15	9691960032	Pivot Pin	1	53	9443960015	Pipe Cap	1
16	9806960024	Input Shaft	1	54	9005960010	Air Actuator	2
17	9806960025	Input Shifter Shaft	1	55	9180960010	Brake	1
18	9831960019	Spacer	1	56	9796960129	Gasket	1
19	9912960020	Tube Assembly	1	57	9443960014	Nipple	1
20	9570960003	Plastic Air Tube	1	58	9796960099	Gasket	1
21	9082960022	Bearing	2	59	9970456008	Relief Fitting	1
22	9178960017	Bracket	1	60	9183960002	Breather Vent	1
23	9209960028	Gear Housing Thrust Bushing	1	61	9626960014	Motor	1
24	9120960041	Capscrew	2	62	9796960130	Quad Ring	1
25	7115151050	Capscrew	8	63	9796960131	Quad Ring	1
26	9120960042	Capscrew	2	64	9796960132	O-Ring	1
27	7115160850	Capscrew	3	65	9701960021	Plug	1
28	9120960043	Capscrew	4	66	9443960013	Reducer	1
29	7115181250	Capscrew	2				
30	9120960044	Capscrew	6				
31	7115181250	Capscrew	2				
32	9120960024	Capscrew	4				
33	9786960013	Capscrew	2				
34	9843960034	Clutch Shifter Spring	1				
35	9120960045	Capscrew	12				



SCHEMATICS

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PARTS LIST — HYDRAULIC LINES AND FITTINGS

Ref. No.	Part No.	Description	Qty.
1	4569160026	Hose Assy	1
2	4569160025	Hose Assy	1
3	4567122028	Hose Assy	2
4	4569130028	Hose Assy	1
5	4569130027	Hose Assy	1
6	4569160032	Hose Assy	1
7	4569160031	Hose Assy	1
8	4567123056	Hose Assy	1
9	4567123058	Hose Assy	2
10	4569170022	Hose Assy	2
11	4569170027	Hose Assy	2
12	4569130036	Hose Assy	2
13	4569130037	Hose Assy	1
14	7790060676	Screw	6
15	4567182046	Hose Assy	1
16	4569160048	Hose Assy	4
17	4569132045	Hose Assy	2
18	4570000069	Hose Assy	4
19	4567182065	Hose Assy	1
20	4570000108	Hose Assy	2
21	4569130038	Hose Assy	2
22	4567122017	Hose Assy	4
23	4567110053	Hose Assy	1
24	4567110050	Hose Assy	1
25	4567123059	Hose Assy	1
26	4567123057	Hose Assy	1
27	4569130029	Hose Assy	2
28	7445060643	Adapter	12
29	7443000109	Adapter	2
30	7445060637	Union Tee	2
31	7443000012	Fitting	2
32	7445061043	Adapter	12
33	7445101043	Adapter	4
34	7445161620	Fitting	2
35	74430000207	Reducer	2
36	7445120042	Tube Nut	2
37	7445121243	Adapter	2
38	7445161243	Adapter	2
39	7443000158	Fitting	2
40	7445040421	Fitting	2
41	7470000002	Oil Filter Guage	2
42	7430000004	Oil Filter w/ Element	2
43	7470000004	Pressure Guage	2
44	7431000003	Oil Filter Element	2



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TO WRECKER BOOM MANIFOLD
SEE SHEET 2

TO PORTS ON FLUP

SUB-FRAME MANIFOLD

ONE RES.

43 14 40 23 24 22 30 36 35

42 41 44 19 15 22 34 31 30 31 30

39 38 33 32 2 3 5 7 13 12 26 9 25 8 29 28

1 3 4 11 6 21 21

28

EXT RET LH BOOM LIFT CYL

EXT RET RH BOOM LIFT CYL

EXT RET RH SPADE CYLINDER

EXT RET LH SPADE CYLINDER

WRECKER BOOM MANIFOLD FUNCTIONS:
F WINCH OUT
OPEN
WG BOOM OUT
WT OUT
TET DN
TET UP
OPEN BOOM IN
RWINCH OUT
RWINCH IN
SUPPLY INLET
SUPPLY MID-INLET

SPADE CYLINDER FUNCTIONS:
UP
DOWN
EXT
RET

BOOM LIFT CYLINDER FUNCTIONS:
UP
DOWN
EXT
RET

HYDRAULIC CIRCUITRY:
Filters (42, 41, 44)
Check valves (39, 31, 30, 34, 31, 30, 31, 30)
Relief valves (22, 34, 31, 30, 31, 30, 31, 30)
Directional control valves (38, 33, 32, 33, 32, 33, 32, 33, 32)
Cylinders (1, 3, 4, 11, 6, 21, 21, 2, 3, 5, 7, 13, 12, 26, 9, 25, 8, 29, 28)

[illegible]

PART LIST — SUPPLY - PRESSURE - RETURN

Ref. No.	Part No.	Description	Qty.
1	7650100137	Nipple	1
2	7444121050	Reducer Bushing	1
3	7935000116	Valve	1
4	7444121271	Elbow	1
5	7443000130	Hose	1
6	7274000028	Clamp	1
7	**	Suction Hose	
8	7443000222	Elbow	1
9	7577000213	Split Flange Fitting Kit	1
10	7724000044	Pump	1
11	7115181050	Hex Head Capscrew	2
12	7950180000	Lockwasher	2
13	7445121645	Elbow	2
14	**	Hose Assy	
15	7430000007	Tank Filter	1
16	4062000207	Bar	5
17	7274000007	Clamp	5
18	7274000008	Clamp	10
19	7115140850	Hex Head Capscrew	10
20	7950140152	Washer	10
21	7660142601	Locknut	10
22	7115181250	Hex Head Capscrew	5
23	7660000011	Nut	5
24	4178000248	Bracket Support	1

**Consult factory for part numbers and quantities

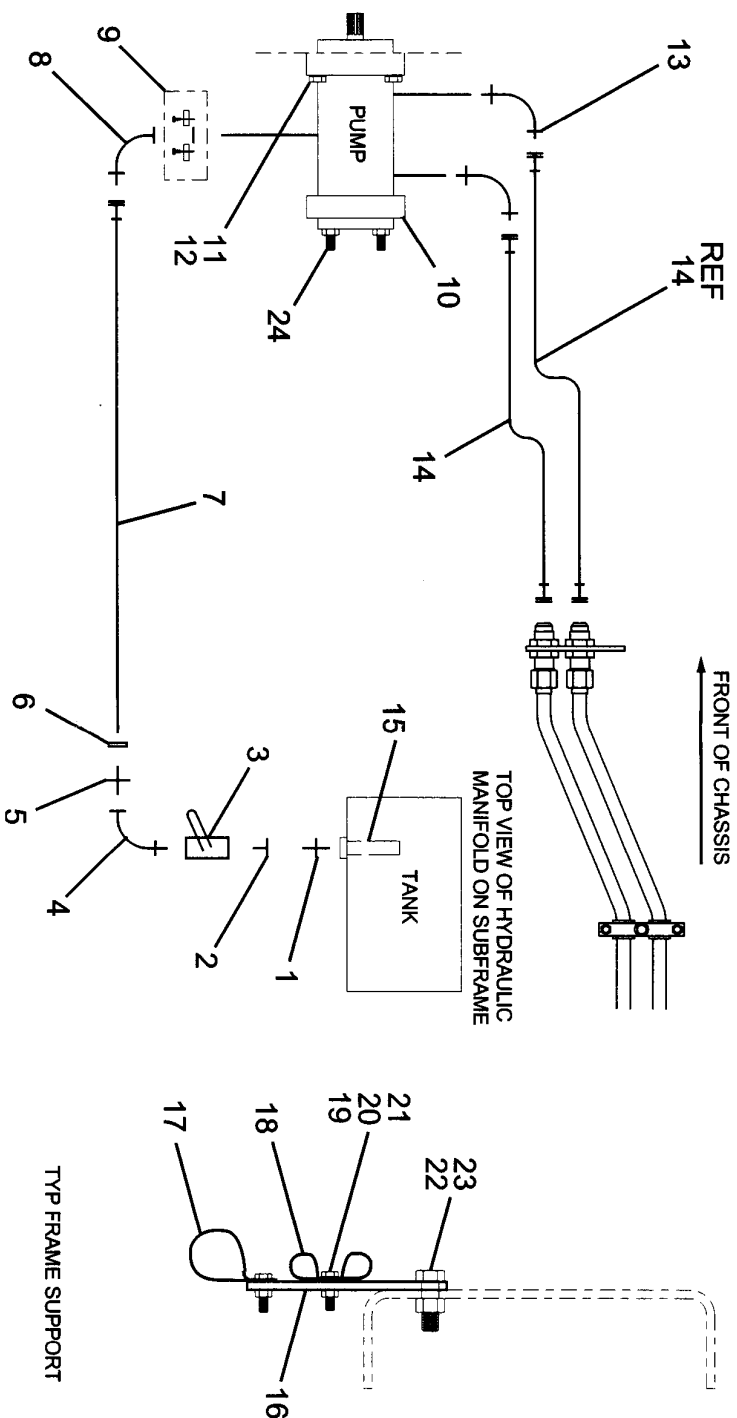


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SUPPLY - PRESSURE - RETURN



PART LIST — BODY WIRING - 86"

Ref. No.	Part No.	Description	Qty.
1	7590000092	Light RH	2
2	7590000093	Light LH	2
3	7114101210	Screw	16
4	7661000024	Nut	16
5	7188000001	Bulb Stop, Tail, Turn	4
6	7188000002	Bulb Back Up	4
7	7590000094	Compartment Light w/Switch	4
8	7790100856	Screw	16
9	7552000090	Wiring Harness - Right Side	1
10	7740000001	Relay	3
11	7552000146	Wiring Harness - Left Side	1
12	7457000011	Fuse 10 Amp	3
13	7457000006	Fuse 15 Amp	1
14	7457000012	Fuse 20 Amp	6
15	7870000043	Breaker 150 Amp	1
16	7115140650	Hex Head Capscrew	6
17	7661000023	Lockwasher	10
18	7115140425	Screw	1
19	7870000044	Switch Panel Power Distribution	1
20	7115101411	Screw	4
21	7661000002	Hex Nut	12
22	4346000003	Junction Box	1
23	7493000014	Grommet	3
24	7950140151	Flatwasher	6
25	7660142601	Locknut	6
26	7590000104	Light Clearance	2
27	7346000076	Gasket Clearance Light	2
28	7346000077	Guard Clearance Light	2
29	7114100610	Screw	8
30	7493000011	Grommet	3
31	7345242202	Terminal Ring	1
32	7345222202	Terminal Ring	3
33	7978000011	Cable Welding	25 ft.
34	8597650001	Loom	25 ft.
35	7590000105	Light License Plate	1
36	7178000025	Bracket License Plate	1
37	7114100618	Capscrew	8
38	7274000036	Clamp	8
39	7493000017	Grommet	2
40	7660102601	Nut	8
41	7894000031	Cable	4
42	7790141656	Screw	4
43	7345211702	Terminal Ring	5

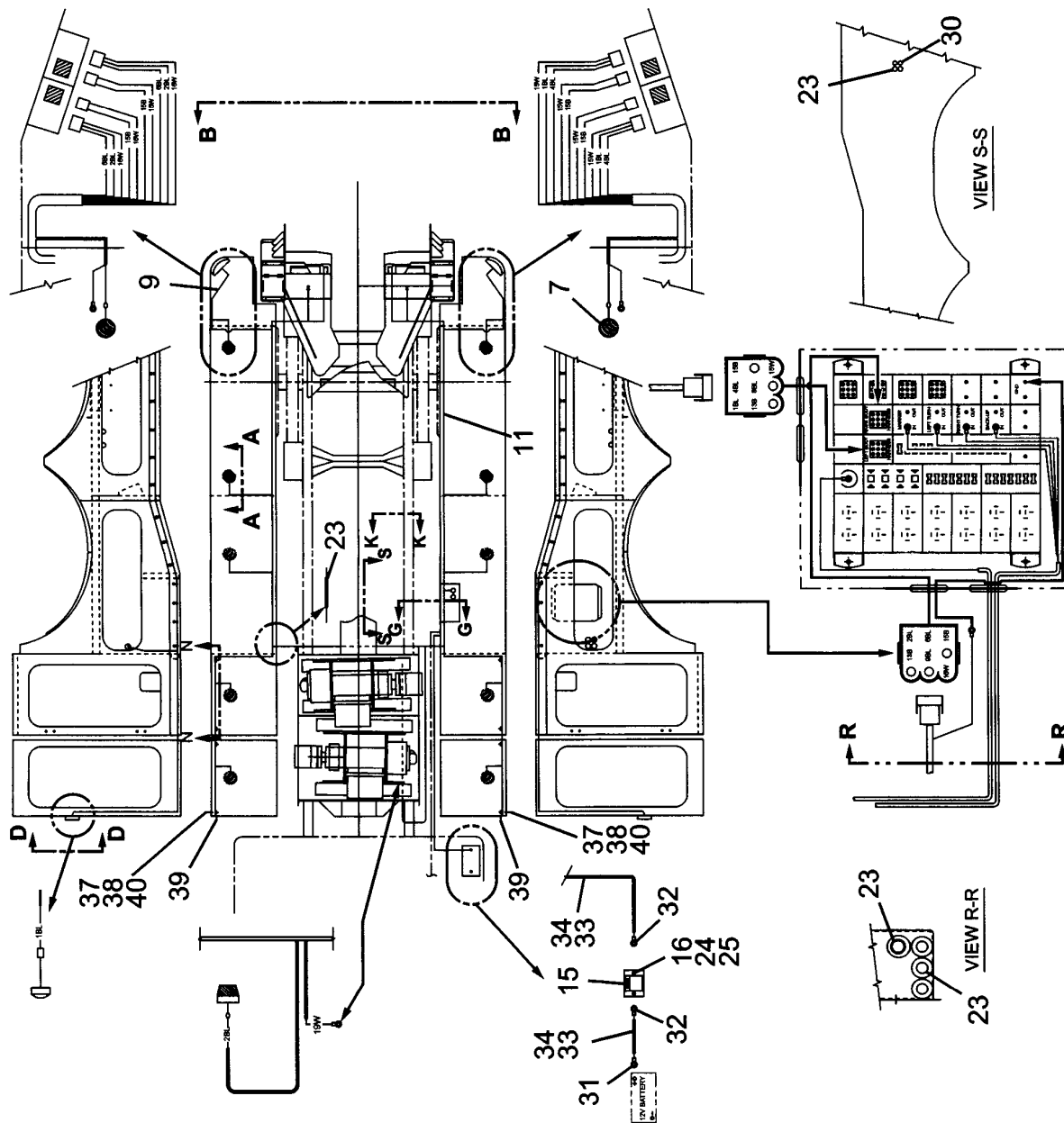


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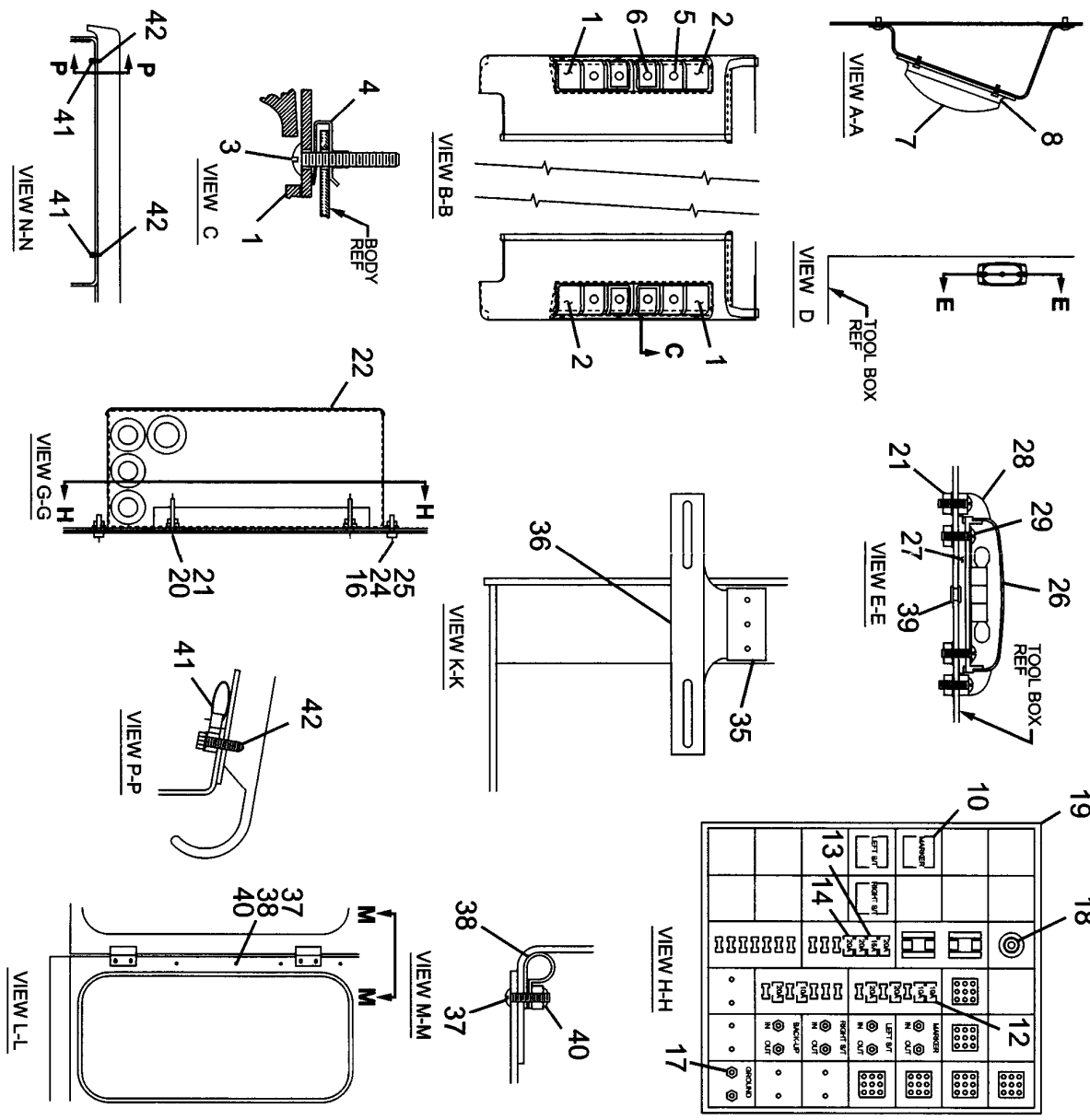
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BODY WIRING - 86"



BODY WIRING - 86"



PARTS LIST — BODY WIRING - 146"

Ref. No.	Part No.	Description	Qty.
1	7590000092	Light RH	2
2	7590000093	Light LH	2
3	7114101210	Screw	16
4	7661000024	Nut	16
5	7188000001	Bulb Stop, Turn, Tail	4
6	7188000002	Bulb Back Up	4
7	7590000094	Compartment Light w/Switch	4
8	7790100856	Screw	16
9	7552000123	Body Harness RH	1
10	7740000001	Relay	3
11	7552000124	Body Harness LH	1
12	7457000011	Fuse 10 Amp	3
13	7457000006	Fuse 15 Amp	1
14	7457000012	Fuse 20 Amp	6
15	7870000043	Breaker 150 Amp	1
16	7115140650	Capscrew	6
17	7661000023	Lockwasher	10
18	7115140425	Screw	1
19	7870000044	Switch Panel Power Distribution	1
20	7115101411	Screw	4
21	7661000002	Hex Nut	12
22	4346000004	Junction Box	1
23	7493000014	Grommet	3
24	7950140151	(See 7950140141)	6
25	7660142601	Locknut	6
26	7590000104	Light Clearance	2
27	7346000076	Gasket Clearance Light	2
28	7346000077	Guard Clearance Light	2
29	7114100610	Screw	8
30	7493000011	Grommet	3
31	7345242202	Terminal Ring	1
32	7345222202	Terminal	3
33	7978000011	Cable Welding	25 ft.
34	8597650001	Loom	25 ft.
35	7590000105	Light License Plate	1
36	7178000025	Bracket License Plate	1
37	7114100618	Capscrew	8
38	7274000036	Clamp	8
39	7493000017	Grommet	2
40	7660102601	Nut	8
41	7894000031	Cable	4
42	7790141656	Screw	4
43	7345211702	Terminal	5

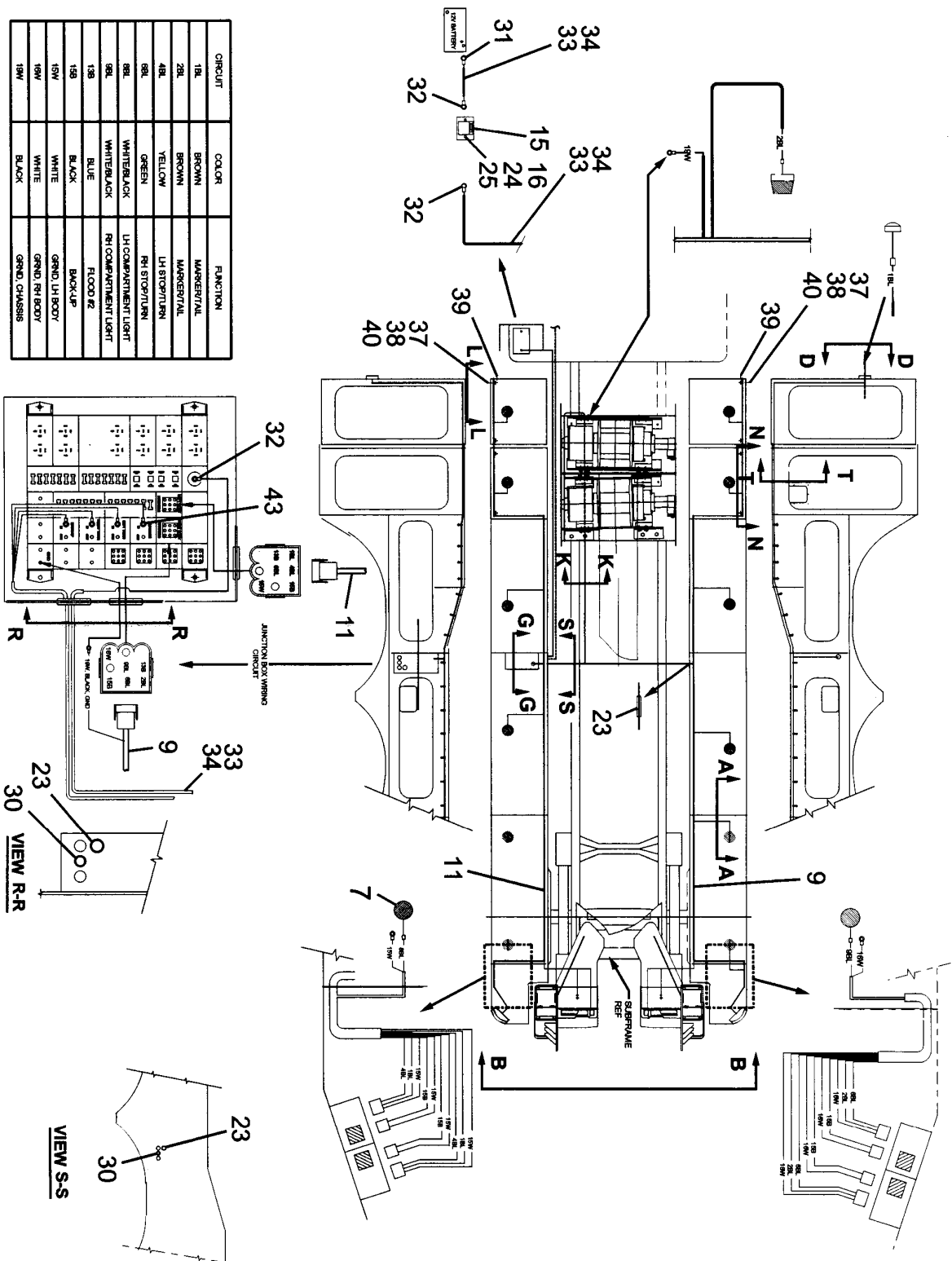


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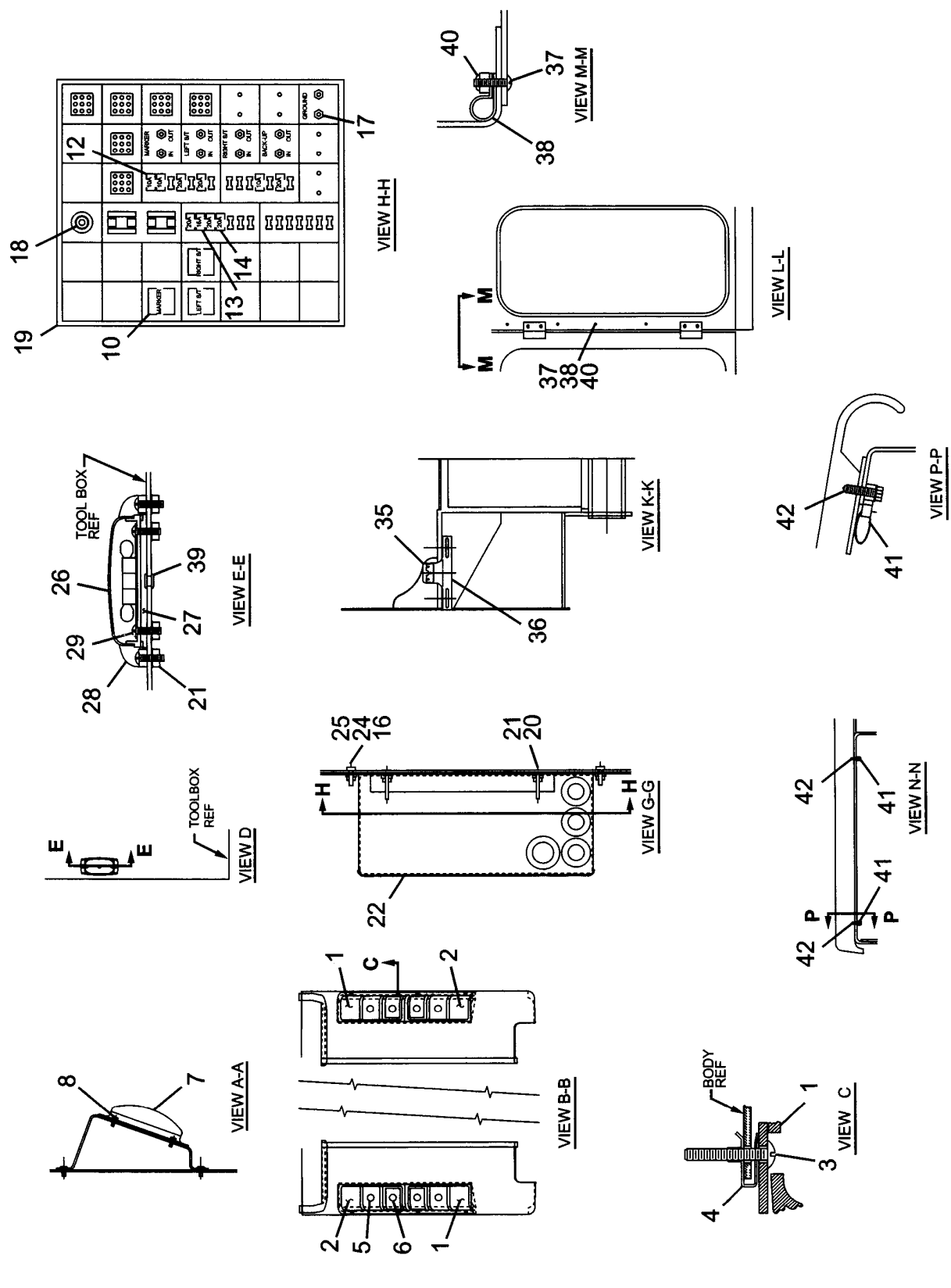
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Date _____

BODY WIRING - 146"



BODY WIRING - 146"



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Date _____

PARTS LIST — SWITCH PANEL WIRING

Ref. No.	Part No.	Description	Qty.
1	7345001910	Tab	4
2	7345001710	Tab	5
3	7493000003	Grommet	1
4	7552000092	Switch Harness	1
5	7493000011	Grommet	5
6	7345222202	Ring Terminal	3
7	7661000023	Hex Nut w/ Lockwasher	6
8	7345211702	Ring Terminal	7
9	7457000012	20 Amp Fuse	3
10	7457000023	20 Amp Fuse	2
11	7870000043	Circuit Breaker	1
12	7950140151	Flatwasher	2
13	7660142601	Locknut	2
14	7115140650	Capscrew	2
15	7978000011	Cable	25 ft.
16	8597650001	Loom	25 ft.
17	7345242202	Ring Terminal	1
18	7345211902	Ring Terminal	2



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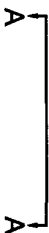
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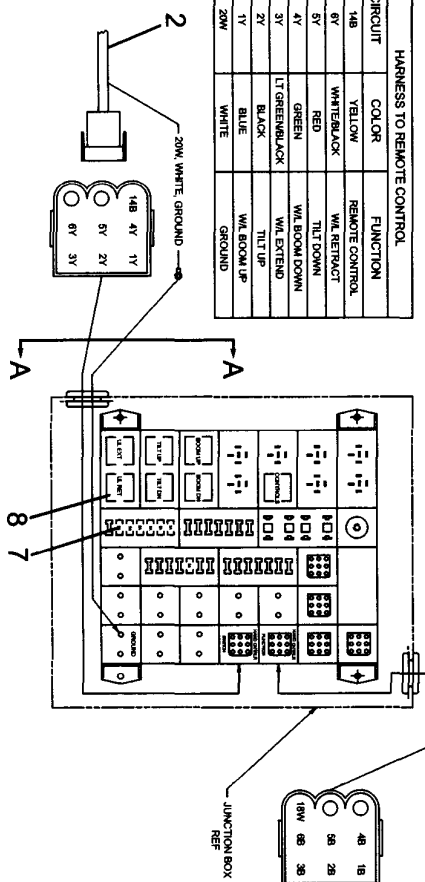
CIRCUIT	COLOR	FUNCTION
14Y	YELLOW/BLK	CONTROLS SWITCH
13Y	BLUE/BLK	FLOOD #2 SWITCH
12Y	BLUE	FLOOD #1 SWITCH
11Y	ORANGE	BEACON #2 SWITCH
10Y	GREY	BEACON #1 SWITCH
10G	RED/BLK	AUX #2 SWITCH
6G	RED/YELLOW	CABINET SWITCH
5G	RED/WHIT	AUX #3 SWITCH
4G	WHITE/BLK	CABINET SWITCH
7B	BROWN	SWITCH PANEL ID
2R	RED	POWER TO SWITCH PANEL
1R	RED	POWER TO SWITCH PANEL



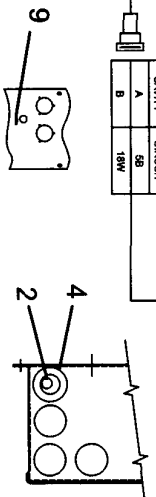
NOTE: VALVE SHOWN IN MOUNTED POSITION



HARNESSTO REMOTE CONTROL		
CIRCUIT	COLOR	FUNCTION
14B	YELLOW	REMOTE CONTROL
8V	WHITE/BLACK	W/AL TRIGACT
5V	RED	TILT DOWN
4V	GREEN	W/AL ROOM DOWN
3V	LT GREEN/BLACK	W/AL EXTEND
2V	BLACK	TILT UP
1V	WHITE	W/AL ROOM UP
20W	BLUE	GROUND

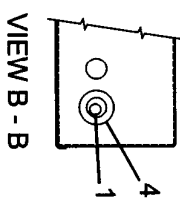


HARNES TO SOL ENOID VALVE		
CIRCUIT	COLOR	FUNCTION
10W	WHITE	GROUND
66	WHITE/BLACK	W/L RETRACT
59	RED	T/LT DOWN
48	GREEN	W/L BOOM DOWN
38	T/LT GREEN/BLACK	W/L EXTEND
25	BLACK	T/LT UP
18	BLUE	W/L BOOM UP



SECTION C - C

VIEW A-A



VIEW B - B

PARTS LIST — REMOTE CONTROL WIRING

Ref. No.	Part No.	Description	Qty.
1	7552000144	Harness Valve	1
2	7552000130	Harness Remote Control (Single)	1
	7552000129	Harness Remote Control (Dual)	
3	7295000034	Controller Hand	1
4	7493000011	Grommet	3
5	7493000014	Grommet	1
6	7346000068	Dust Cap	1
7	7457000019	5 Amp Fuse	1
8	7740000001	Relay	1
9	7330000247	Decal Remote Control	1



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**PART LIST — SWITCH PANEL WITH IN-CAB CONTROL
WIRING**

Ref. No.	Part No.	Description	Qty.
1	7870000058	Switch Panel	1
2	7552000092	Harness	1
3	7493000003	Rubber Grommet	2
4	7345221702	Ring Terminal	1
5	7346000039	Heat Shrink Tubing	2
6	7345001714	Terminal	8
7	7345001914	Terminal	11
8	7345001710	Terminal	6
9	7552000203	Harness	1
10	7790141651	Screw	4
11	7950140141	Flatwasher	4
12	7493000011	Rubber Grommet	1
13	7457000023	20 Amp Fuse	2
14	7661000023	Lockwasher	3
15	7493000014	Rubber Grommet	1

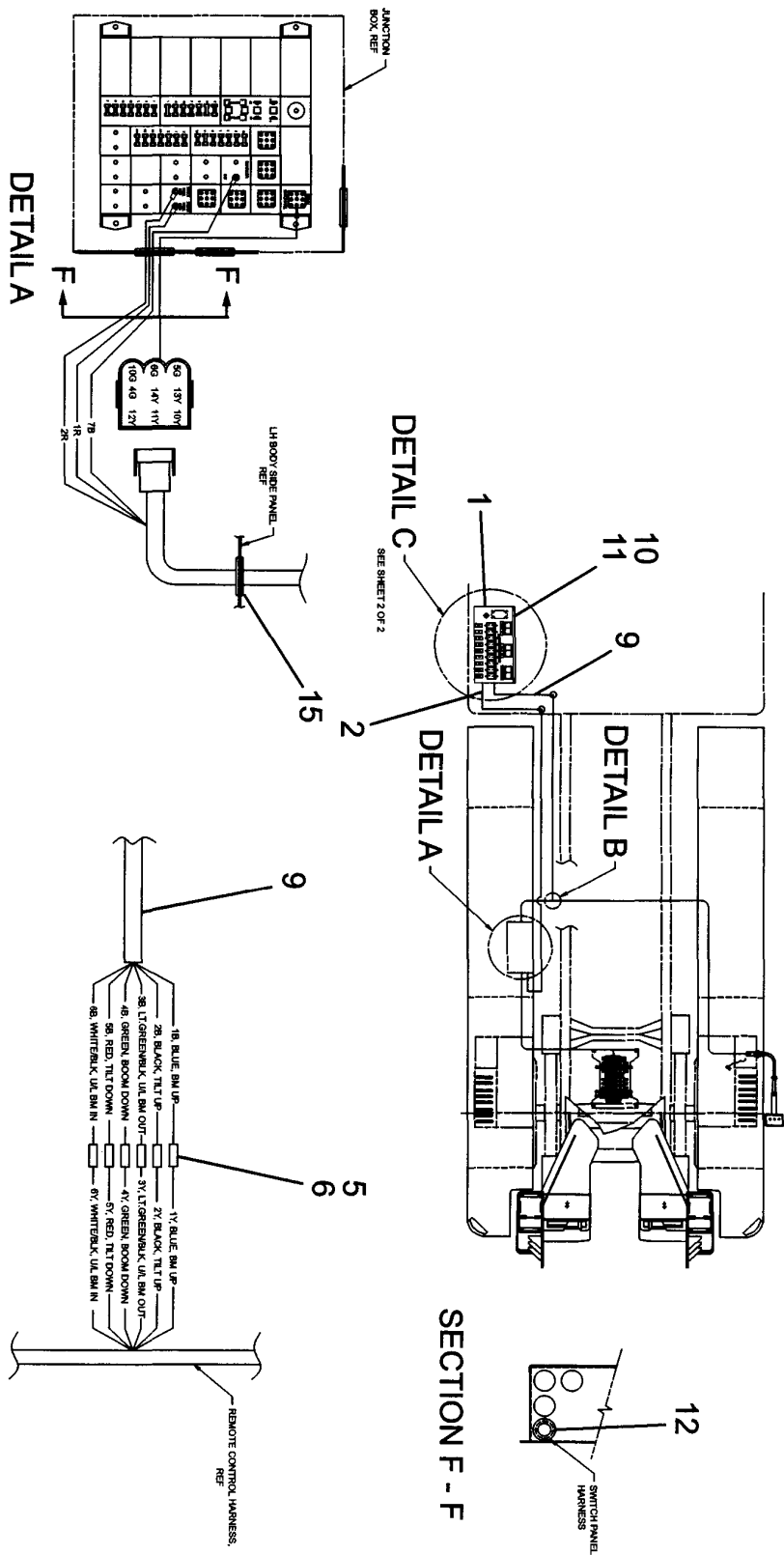


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SWITCH PANEL WITH IN-CAB CONTROL WIRING



CIRCUIT	COLOR	FUNCTION
1V	BLUE	COMMON SWITCH
2V	BLACK	11000 #2 SWITCH
3V	BLACK	11000 #1 SWITCH
4V	ORANGE	BEACON #2 SWITCH
5V	ORANGE	BEACON #1 SWITCH
6V	RED	BEACON #1 SWITCH
7V	RED	AUX #1 SWITCH
8V	RED	AUX #2 SWITCH
9V	RED	CHARGE SWITCH
10V	RED	CHARGE SWITCH
11V	RED	CHARGE SWITCH
12V	RED	CHARGE SWITCH
13V	RED	CHARGE SWITCH
14V	RED	CHARGE SWITCH
15V	RED	CHARGE SWITCH
16V	RED	CHARGE SWITCH
17V	RED	CHARGE SWITCH
18V	RED	CHARGE SWITCH

CIRCUIT	COLOR	FUNCTION
1V	WHITE	UL BROWN IN
2V	RED	UL BROWN IN
3V	RED	UL BROWN IN
4V	RED	UL BROWN IN
5V	RED	UL BROWN IN
6V	RED	UL BROWN IN
7V	RED	UL BROWN IN
8V	RED	UL BROWN IN
9V	RED	UL BROWN IN
10V	RED	UL BROWN IN
11V	RED	UL BROWN IN
12V	RED	UL BROWN IN
13V	RED	UL BROWN IN
14V	RED	UL BROWN IN
15V	RED	UL BROWN IN
16V	RED	UL BROWN IN
17V	RED	UL BROWN IN
18V	RED	UL BROWN IN

CIRCUIT	COLOR	FUNCTION
1V	WHITE	UL BROWN IN
2V	RED	UL BROWN IN
3V	RED	UL BROWN IN
4V	RED	UL BROWN IN
5V	RED	UL BROWN IN
6V	RED	UL BROWN IN
7V	RED	UL BROWN IN
8V	RED	UL BROWN IN
9V	RED	UL BROWN IN
10V	RED	UL BROWN IN
11V	RED	UL BROWN IN
12V	RED	UL BROWN IN
13V	RED	UL BROWN IN
14V	RED	UL BROWN IN
15V	RED	UL BROWN IN
16V	RED	UL BROWN IN
17V	RED	UL BROWN IN
18V	RED	UL BROWN IN



COMPONENTS AND FUNCTIONS:

CIRCUIT	COLOR	FUNCTION
14Y	YELLOW/BLK	CONTROL 3 SWITCH
13Y	BLUE/BLK	FLOOD #2 SWITCH
12Y	BLUE	FLOOD #1 SWITCH
11Y	ORANGE	BEACON #2 SWITCH
10Y	GREY	BEACON #1 SWITCH
9G	RED/YEL	CABINET SWITCH
8G	RED/BLK	AUX 2 SWITCH
4G	WHITE/BLK	CABINET SWITCH
7B	BROWN	SWITCH PANEL ID
2R	RED	POWER TO SWITCH PANEL

COMPONENTS AND FUNCTIONS (Continued):

CIRCUIT	COLOR	FUNCTION
5B	WHITE/BLK	UL ROOM IN
4B	RED	TILT DOWN
3B	LT. GREEN/BLK	ROOM DOWN
2B	BLUE	TILT UP
1B	BLUE	ROOM UP

COMPONENTS AND FUNCTIONS (Continued):

CIRCUIT	COLOR	FUNCTION
6Y	WHITE/BLK	UL ROOM IN
5Y	RED	TILT DOWN
4Y	GREEN	ROOM DOWN
3Y	LT. GREEN/BLK	UL ROOM OUT
2Y	BLACK	TILT UP
1G	BLUE	ROOM UP

DETAIL D:

GROUND, 18GA BLACK
 MARKER, 18GA PURPLE
 CIRCUIT 1, AUX 2, 12GA
 CIRCUIT 2, AUX 1, 12GA
 CIRCUIT 3, CABINET, 12GA
 CIRCUIT 4, CABINET, 12GA
 CIRCUIT 5, CONTROL, 12GA
 POWER, 12GA RED
 POWER, 12GA RED

DETAIL E:

13Y, BLUE/BLK, FLOOD
 12Y, BLUE, FLOOD
 11Y, ORANGE, BEACON
 10Y, GREY, BEACON

NOTE:
 CUT JAMPER WIRE BETWEEN
 CABINET 1 & CABINET 2 SWITCHES
 SPlice WIRE (OR POWER RED)
 TO SPARK TIGHTEN (ITEM #1) ON
 LOOSE WIRE END.

- NOTE:
CUT JUMPER WIRE BETWEEN
CABINET 1 & CABINET 2 SWITCHES.
SPlice WIRE (2R POWER RED)
TO CABINET 1 SIDE. USE HEAT
SHRINK TUBING (ITEM #5) ON
LOOSE WIRE END.

PARTS LIST — PYLON AND EMERGENCY LIGHTS

Ref. No.	Part No.	Description	Qty.
1	7493000011	Grommet	5
2	7493000003	Grommet	3
3	7590000127	Dome Light	2
4	7493000002	Grommet	2
5	7590000095	Marker Light Assembly	4
6	7552000125	Headboard/Work Light Harness	1
7	7590000156	Light Bar	1
8	4178000207	Bracket	2
9	7590000096	Work Light	2
10	7115150664	Carriage Bolt	4
11	7950150000	Lockwasher	8
12	7950150161	Flatwasher	8
13	7660152200	Acorn Nut	8
14	4178000234	Bracket	2
15	7115150864	Carriage Bolt	4
16	7115161250	Capscrew	8
17	7950160161	Flatwasher	16
18	7660162601	Locknut	8
19	7577000173	Plug Kit	1
20	7346000075*	Connector	1
21	7457000011	10 Amp Fuse	1
22	7457000012	20 Amp Fuse	4
23	7457000006	15 Amp Fuse	1
24	7740000001	Relay	3
25	7457000013	30 Amp Fuse	2
26	7661000023	Hex Nut w/Lockwasher	2
27	8594100002	Loom	6

* If alternative is used and lightbar not required, use this item.

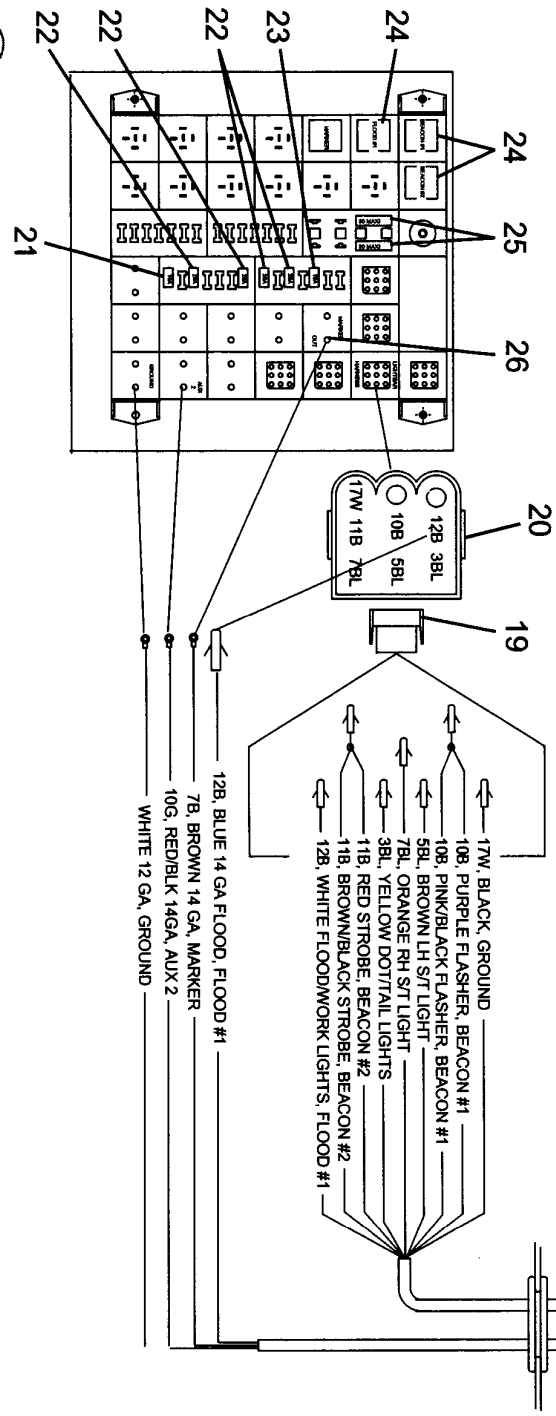
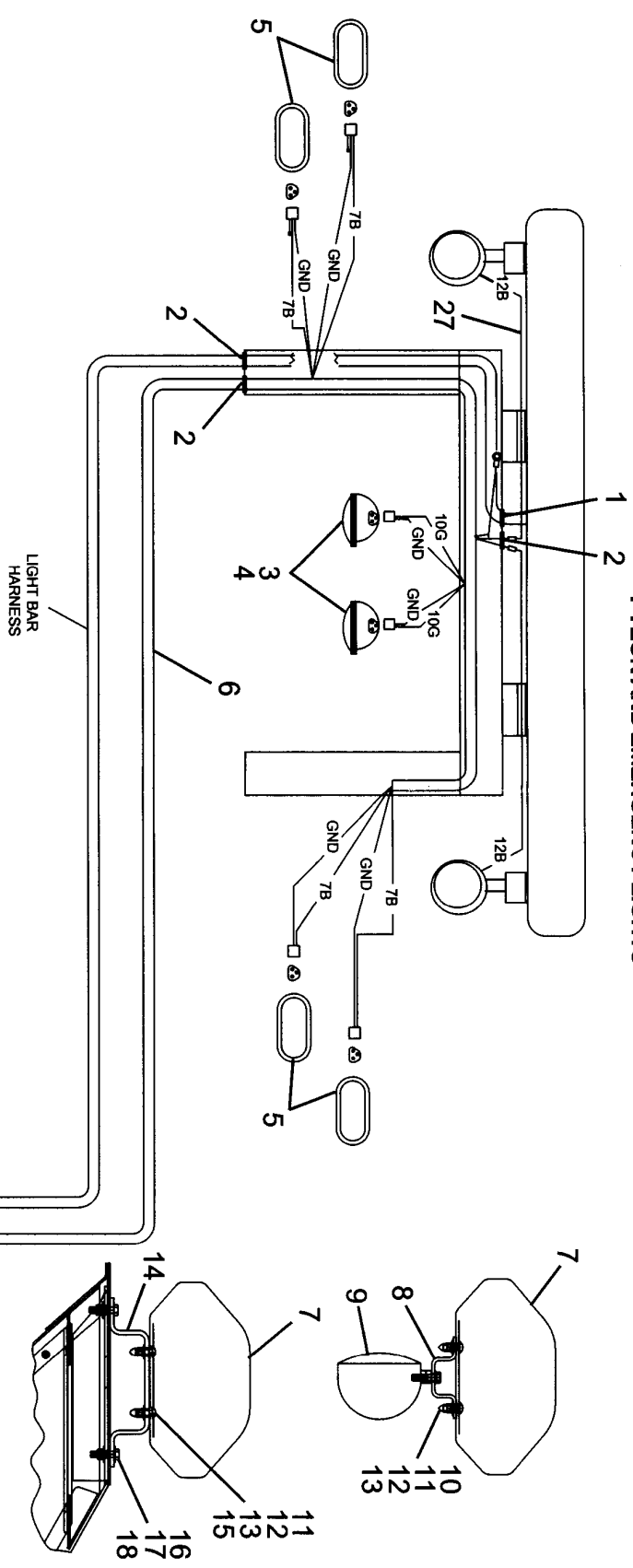


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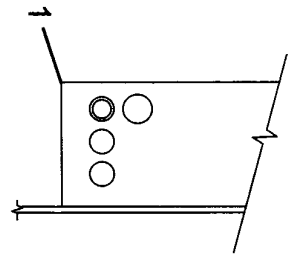
Rev. _____

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PYLON AND EMERGENCY LIGHTS



SIDE VIEW OF JUNCTION BOX



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Date _____

IV



**PARTS LIST — WINCH AND AUXILIARY AIR
25,000 LB RAMSEY WORM GEAR**

Ref. No.	Part No.	Description	Qty.
1	7443000154	Bushing	1
2	7443000155	Fitting	1
3	7443000156	Nipple	2
4	7443000152	Plug	1
5	7443000139	Fitting	2
6	7443000138	Fitting	2
7	7935000120	Valve	1
8	7443000175	Tube Fitting	2
9	7444020013	Pipe Plug	5
10	7443000173	Tube Fitting	4
11	7950140161	Flatwasher	4
12	7446502518	Clamping Stud	1
13	7312000017	Coupling	1
14	7565000016	Air Line Tubing	75 ft.
15	7565000014	Air Line Tubing	25 ft.
16	7443000177	Tube Fitting	2
17	7115142450	Hex Head Capscrew	2
18	7660142601	Locknut	2
19	7443000178	Union	2
20	7935000136	Valve	2
21	4619000005	Air Manifold	1
22	7295000029	Air Regulator	1
23	7950140161	Flatwasher	4
24	7470000006	Air Pressure Gauge	1
25	7443000066	Fitting	1
26	7443000149	Bushing	1



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**PARTS LIST —WINCH AND AUXILIARY AIR
25,000 LB RAMSEY PLANETARY GEAR**

Ref. No.	Part No.	Description	Qty.
1	7443000154	Bushing	1
2	7443000155	Fitting	1
3	7443000156	Nipple	2
4	7443000152	Plug	1
5	7443000139	Fitting	4
6	7443000138	Fitting	2
7	7935000120	Valve	1
8	7443000175	Tube Fitting	2
9	7444020013	Pipe Plug	4
10	7443000173	Tube Fitting	4
11	7950140161	Flatwasher	4
12	7446502518	Clamping Stud	1
13	7312000017	Coupling	1
14	7565000016	Air Line Tubing	100 ft.
15	7565000014	Air Line Tubing	25 ft.
16	7443000270	Fitting	1
17	7115142450	Hex Head Capscrew	2
18	7660142601	Locknut	2
19	7443000178	Union	4
20	7935000136	Valve	2
21	4619000005	Air Manifold	1
22	7295000029	Air Regulator	1
23	7950140161	Flatwasher	4
24	7470000006	Air Pressure Gauge	1
25	7443000066	Fitting	1
26	7443000149	Bushing	1

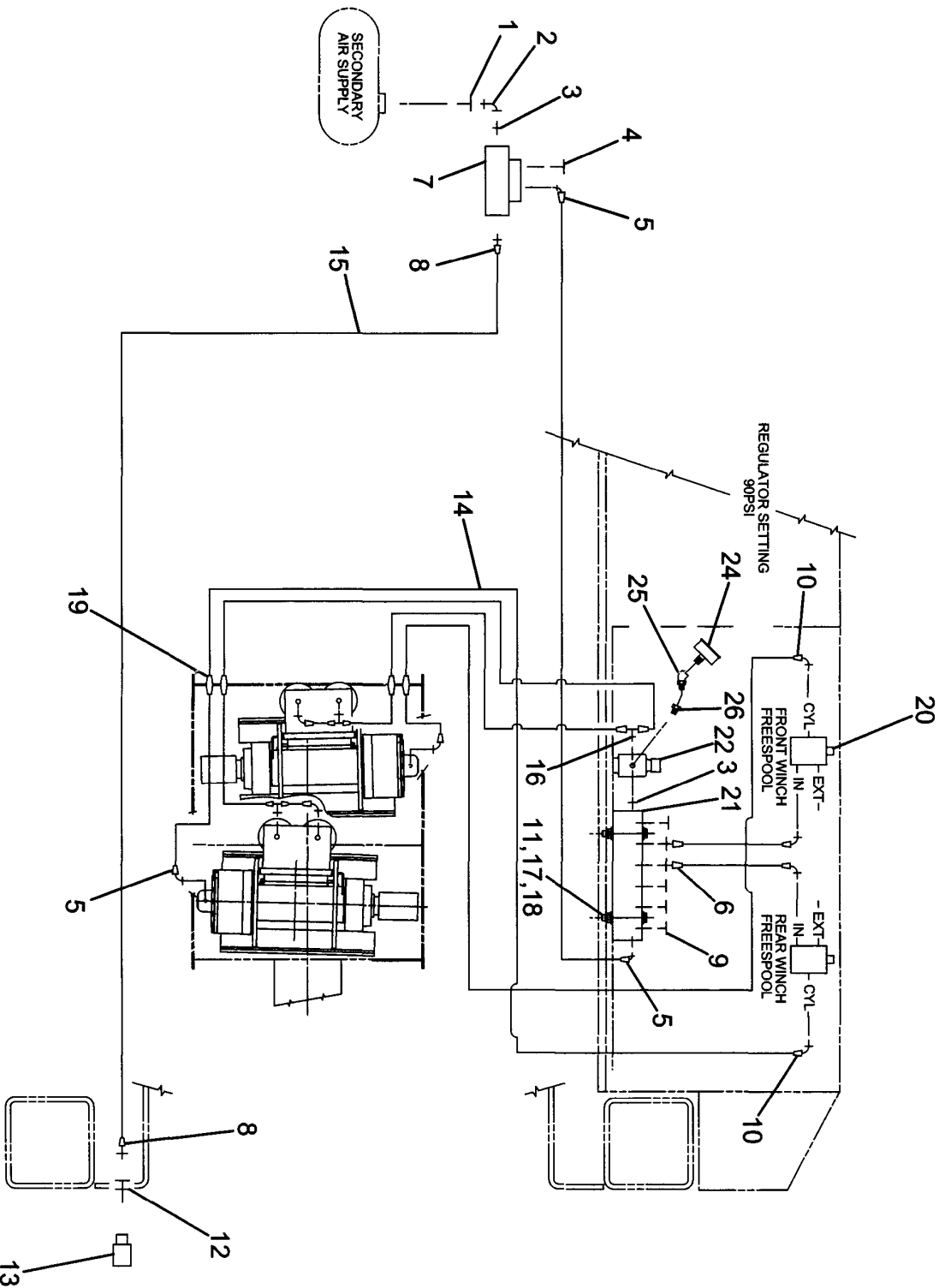


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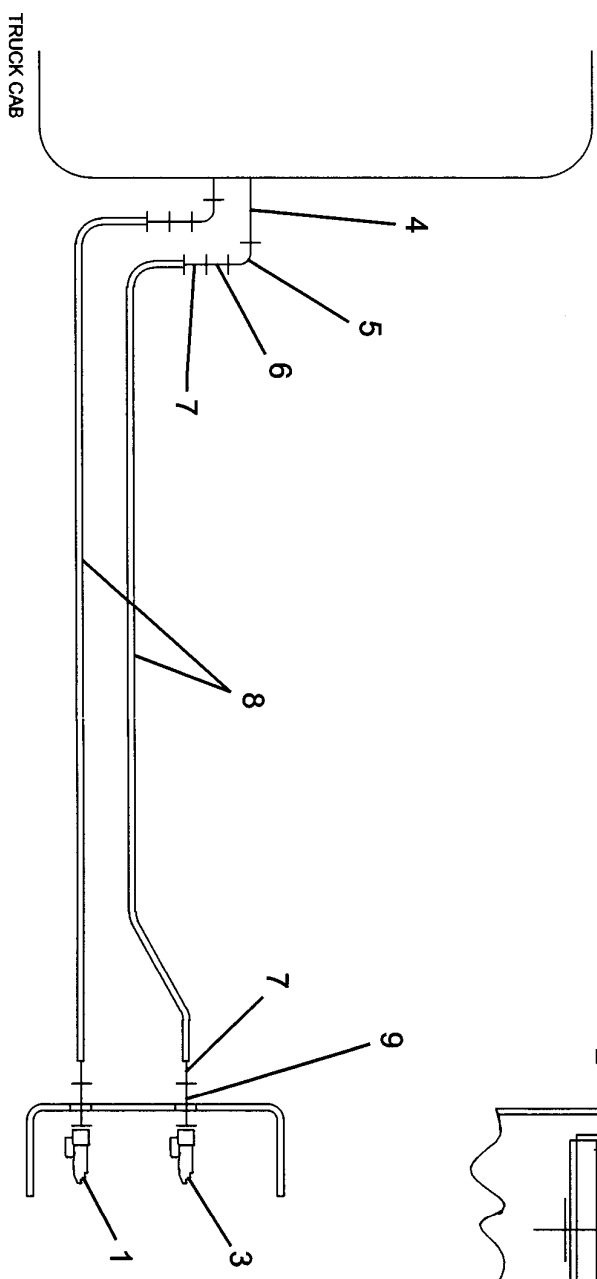
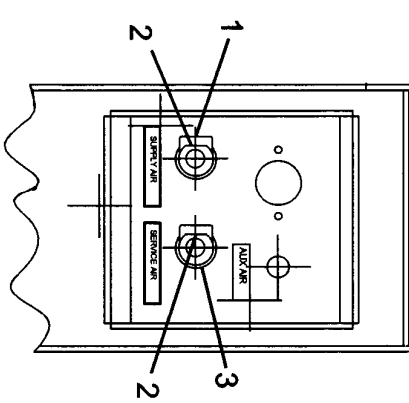
Rev. _____

Date _____

WINCH AND AUXILIARY AIR 25,000 LB RAMSEY PLANETARY GEAR



GLAD HANDS



PARTS LIST — GLAD HAND INSTALLATION

Ref. No.	Part No.	Description	Qty.
1	7312000016	Emergency Glad Hand	1
2	7577000145	Seal Kit	1
3	7312000015	Service Glad Hand	1
4	7443000145	Bushing	2
5	7443000146	Elbow	2
6	7443000148	Bushing	2
7	7446382506	Connector	4
8	7565000014	Air Line	50 ft.
9	7446502518	Clamping Stud	2



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Date _____

PARTS LIST — DECAL INSTALLATION

Ref. No.	Part No.	Description	Qty.
1	7330000211	Decal Safety Warning	1
2	7330000122	Nameplate	1
3	7330000037	Nameplate	2
4	7330000193	Decal Wheel Lift Caution	2
5	7330000202	Decal Shock Warning	1
6	7330000203	Decal "Warning-Power Lines"	2
7	7330000034	Nameplate	1
8	7330000108	Nameplate	2
9	7330000294	Decal Jerr-Dan Logo	2
10	7330000196	Decal Circle "J"	2
11	7330000297	Decal Lubrication	1
12	7330000189	Placard	1
13	7330000143	Decal "Proudly Made in the USA"	1
14	7759000004	Pop Rivet	10
15	7330000284	Patent Placard	1
16	7330000207	Decal Fuse Panel Schematic	1
17	7330000208	Placard	1
18	7330000209	Placard	1
19	7330000210	Placard	1
20	7330000139	Decal Checklist	1
21	7330000298	Decal Lubrication Chart	1



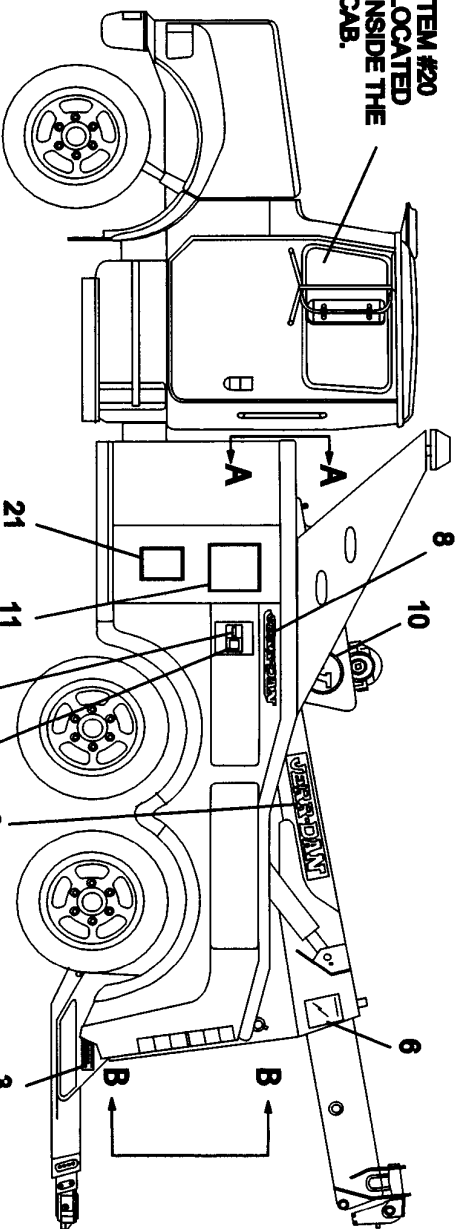
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Rev. _____

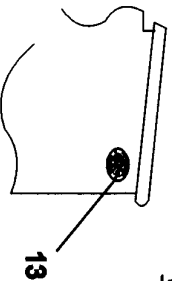
Date _____

DECAL INSTALLATION

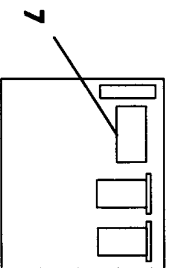
ITEM #20
LOCATED
INSIDE THE
CAB.



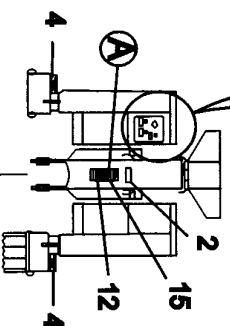
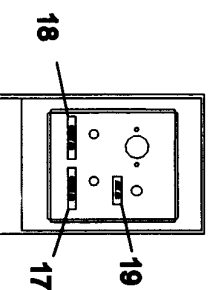
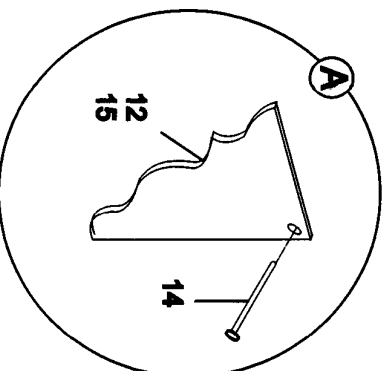
DECALS PLACED ON
INSIDE OF DOORS



VIEW A-A



HYDRAULIC TANK



CROSSTUBE
VIEW B-B

⚠ WARNING ⚠
MOVING PARTS
KEEP HANDS AND FEET CLEAR
OF THIS AREA

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⚠ WARNING ⚠
ELECTRICAL HAZARD
POWER DISTRIBUTION PANEL

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10

CO

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1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24		25		26		27		28		29		30		31		32		33		34		35		36		37		38		39		40		41		42		43		44		45		46		47		48		49		50		51		52		53		54		55		56		57		58		59		60		61		62		63		64		65		66		67		68		69		70		71		72		73		74		75		76		77		78		79		80		81		82		83		84		85		86		87		88		89		90		91		92		93		94		95		96		97		98		99		100	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																																																																																																				

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J JERR-DAN