

\$7.50



**JERR-DAN<sup>®</sup>**  
**CORP.**

1080 Hykes Road  
Greencastle, PA 17225

Phone (717) 597-7111



## FOREWORD

This manual is intended to serve as a guide to the owner and operator in the safe operation and optimum performance of this Jerr-Dan equipment.

Establishment of good operating habits and familiarity with the equipment and its capabilities combined with good judgement are essential.

Before attempting to operate the unit carefully read all sections of this manual.

Rev. \_\_\_\_\_

Date \_\_\_\_\_

# TABLE OF CONTENTS

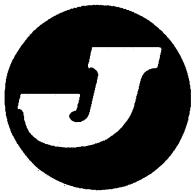
Warranty .....	0.1
Certification .....	0.5
Safety .....	1.1
Decal Group .....	1.5
Operation .....	2.1
Maintenance and Lubrication .....	3.1
Lubrication Chart .....	3.3
Troubleshooting .....	3.4
Hydraulic Schematic .....	3.7
Electrical Schematic .....	3.8
Parts .....	4.1
22' Deck .....	4.2
24' Deck .....	4.4
Winch & Cable Roller Guide .....	4.6
Std Headboard & Winch Free Spool .....	4.8
Dlx Headboard & Winch Free Spool .....	4.10
Final Assembly .....	4.12
Dual Controls .....	4.15
3000# IRL Wheellift .....	4.18
3000# ZOD Wheellift .....	4.20
4000# IRL Wheellift .....	4.22
3000# Wheellift Grid Assembly .....	4.24
4000# Wheellift Grid Assembly .....	4.26
Hydraulic Rear Dock Stabilizer .....	4.28
Hydraulic Components - Standard .....	4.30
Hydraulic Components - IRL Wheellift .....	4.32
Hydraulic Components - ZOD Wheellift .....	4.34
Hydraulic Components - Stabilizer .....	4.36
Electrical Components .....	4.38
Rollback Cylinder .....	4.40
Tilt Cylinder .....	4.42
Wheellift Extend Cylinder .....	4.44
IRL Cylinder 3000# Wheellift .....	4.46
IRL Cylinder 4000# Wheellift .....	4.48
ZOD Cylinder .....	4.50

Rev. \_\_\_\_\_

Date \_\_\_\_\_







# **JERR-DAN®**

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

Procedures for warranty coverage:

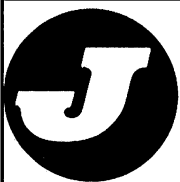
1. Contact Jerr-Dan for the distributor nearest you - Call 1-800-926-9666.
2. If there is not an authorized Jerr-Dan warranty service center nearby, find a convenient, qualified non-Jerr-Dan service center and send in their estimate of repair cost before any work is performed to:

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

Be sure to include your daytime phone number.

3. Authorization for repairs under this limited warranty will be provided by telephone within 24 hours of receipt of valid warranty claims.
- \*4. This outlines the Jerr-Dan One-Year Warranty Plan. For exact coverages, please consult your limited warranty and/or vehicle service contract. 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.

## LIMITED WARRANTY



# **JERR-DAN®**

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

**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.

**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

Rev. \_\_\_\_\_

Date \_\_\_\_\_

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. Filling 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.

## NOTICE

MANUFACTURED BY:

DATE OF MANUFACTURE \_\_\_\_\_ mo. \_\_\_\_\_ yr.

INCOMPLETE VEHICLE MANUFACTURED BY:

DATE INC. VEH. MFD. \_\_\_\_\_ mo. \_\_\_\_\_ yr.

GVWR \_\_\_\_\_

GAWR FRONT \_\_\_\_\_ with  
\_\_\_\_\_ tires,

\_\_\_\_\_ rims, @ \_\_\_\_\_ psi cold \_\_\_\_\_

GAWR INTERMEDIATE (1) \_\_\_\_\_ with  
\_\_\_\_\_ tires,

\_\_\_\_\_ rims, @ \_\_\_\_\_ psi cold \_\_\_\_\_

GAWR INTERMEDIATE (2) \_\_\_\_\_ with  
\_\_\_\_\_ tires,

\_\_\_\_\_ rims, @ \_\_\_\_\_ psi cold \_\_\_\_\_

GAWR REAR \_\_\_\_\_ with  
\_\_\_\_\_ tires,

\_\_\_\_\_ rims, @ \_\_\_\_\_ psi cold \_\_\_\_\_

Conformity of the chassis-cab to Federal Motor Vehicle Safety Standards, which have been previously fully certified by the incomplete vehicle manufacturer or intermediate vehicle manufacture, has not been affected by final-stage manufacture. The vehicle has been completed in accordance with the prior manufacturer's instructions, where applicable. This vehicle conforms to all other applicable Federal Motor Vehicle Safety Standards in effect in:

\_\_\_\_\_ mo.  
\_\_\_\_\_ yr.

VEHICLE IDENTIFICATION NUMBER:

VEHICLE TYPE: \_\_\_\_\_

This certification sticker appears on every Jerr-Dan unit mounted on a new chassis and is required by law. Jerr-Dan Corporation will not certify any unit for a capacity greater than the chassis manufacturer's specified rating. **The capacity ratings of Jerr-Dan units do not imply that vehicles can be used without regard to gross vehicle weight ratings (GVWR) or gross axle rating limitations.**

The payload carrying capacity of any truck is determined by the GVWR of the cab chassis, the curb weight of the cab chassis and the weight of the body. It is important that you determine that your truck has satisfactory carrying capacity and axle ratings for your specific application. Jerr-Dan's authorized sales representatives are available to assist you in this regard.

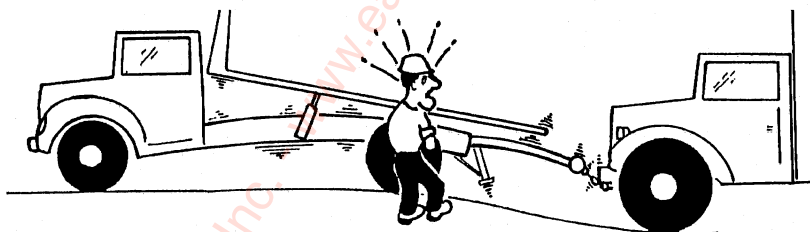
**THIS PAGE INTENTIONALLY LEFT BLANK**

## SAFETY

Safety is all-important when working with machinery. Accidents happen when established safety practices have been overlooked.

Read and practice all safety points listed in this manual. Safety is the prime responsibility of the operator.

1. Read operating and loading instructions thoroughly.
2. Become familiar with the loads that your unit can safely transport without exceeding the structural capacity of the Jerr-Dan equipment or the gross axle weight ratings, gross vehicle weight rating, and gross combined vehicle weight rating of your chassis.
3. Observe all warning decals.
4. Make sure you are clear of oncoming traffic. Dual controls (driver's side and passenger's side) are standard on your Jerr-Dan roll back.
5. Always put bumper on the ground to support the body and truck frame.

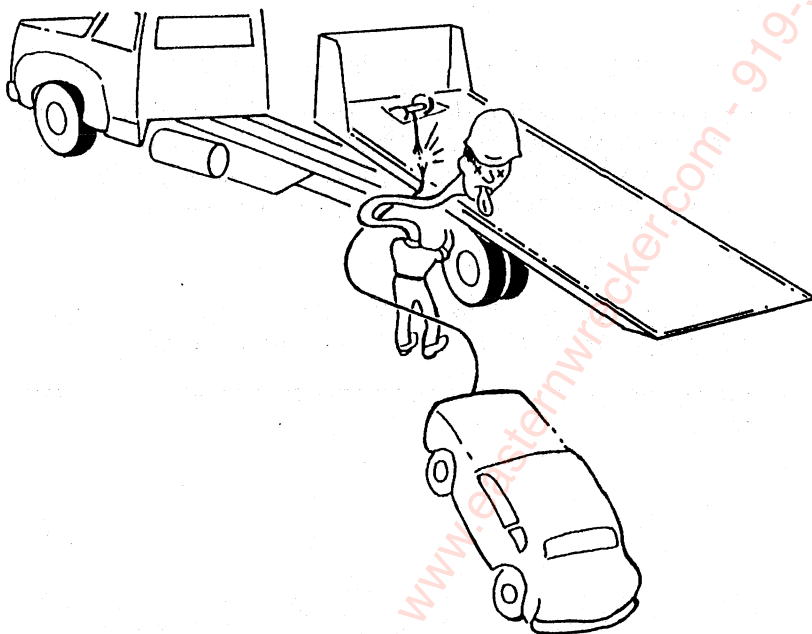


6. Never exceed the rated capacity of the body or truck chassis and its components or use tow bar/wheel lift without a vehicle on the deck.

Rev. \_\_\_\_\_

Date \_\_\_\_\_

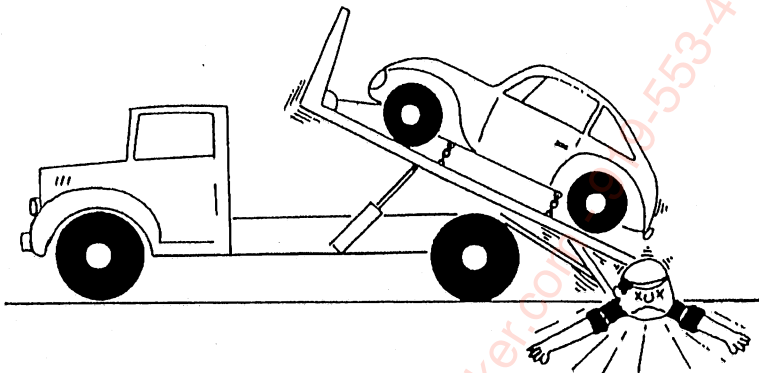
7. Never winch from the side of the bed. Winch only from the rear with load in line with the winch. Failure to do so can result in winch or wire rope damage. JERR-DAN DOES NOT RECOMMEND THE USE OF SIDE PULLING DEVICES.



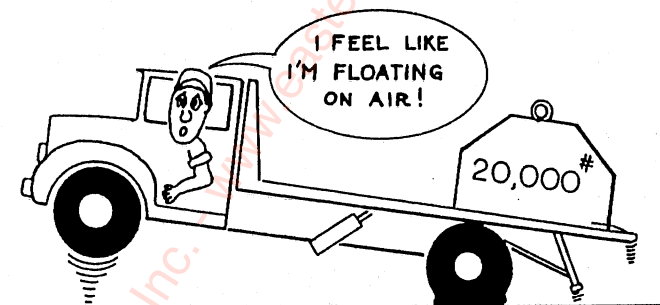
8. Always try to winch from the center of the load.
9. Maintain winch cable in good condition. Replace when worn, kinked or frayed. Do not use cable clamps.



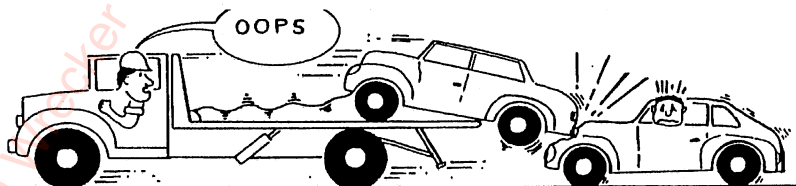
10. When loading or unloading the deck and operating the winch, make certain the area behind the load is clear of personnel and obstacles.



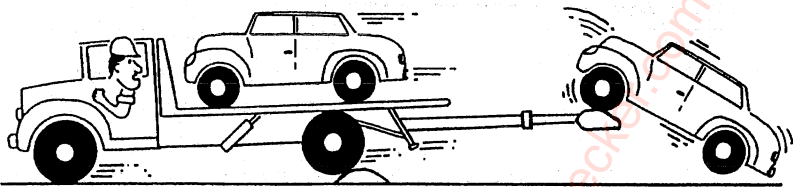
11. Distribute load evenly on the deck. Do not concentrate the load on one section of the deck, to the rear of the truck axles, or use tow bar/wheel lift without a load on the deck.



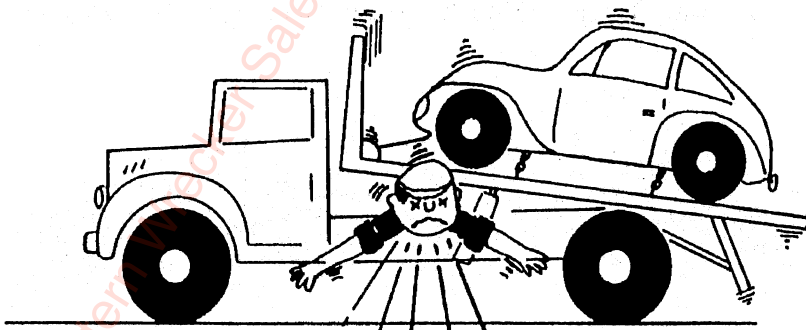
12. Secure cargo to the deck at both the front and rear before the truck is driven. Do not rely on the winch as the only means of holding the load.



13. Keep alert. Do not be distracted during any operating sequences.
14. Do not work behind truck with vehicle on deck unless vehicle is secured at front of deck. (Do not rely on winch.)
15. Read and follow tow bar instructions for proper towing.
16. Do not exceed tow bar/wheel lift ratings. Overloading can cause unsafe steering and braking conditions.
17. Always use both wheel straps on wheel lift tow bar.



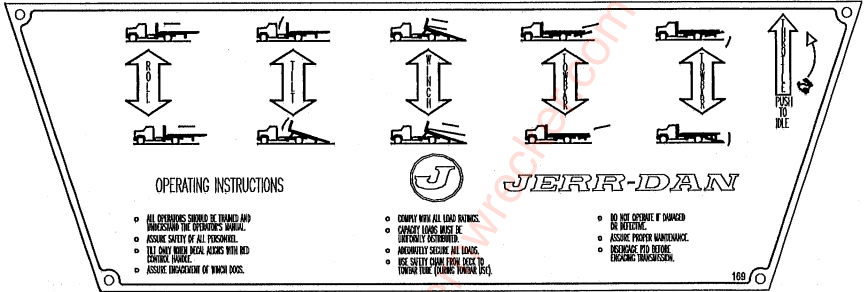
18. Use separate safety chains from towed vehicle to subframe for standard tow bar and wheel lift tow bar. Always attach safety chains to the opposite side of the attaching point, crossing chains under the tow bar. Allow enough slack in the chains to maneuver around corners without binding.
19. Insure deck is in the locked position before traveling.
20. Review operator's pre-transport checklist located on the headboard of the deck each time you move a vehicle.
21. Block up deck before performing any service or maintenance work under deck.



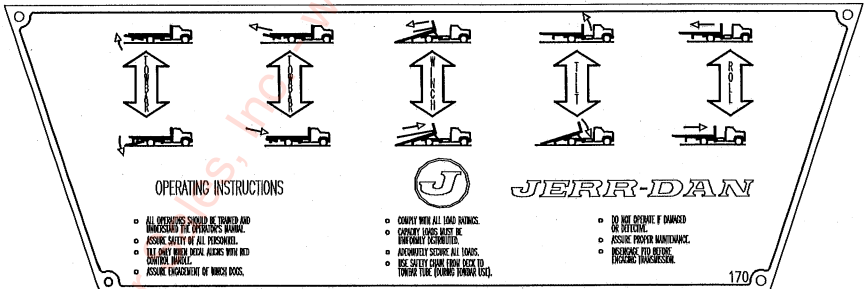
## DECAL GROUP

# JERR-DAN®

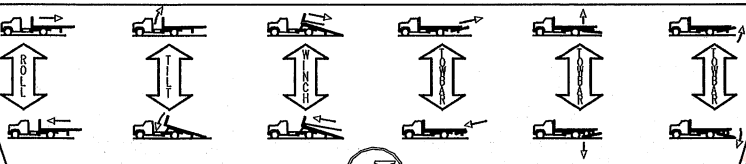
(LOGO)



(STANDARD DECAL, LEFT SIDE)




(STANDARD DECAL, RIGHT SIDE)



### OPERATING INSTRUCTIONS

- ALL OPERATORS SHOULD BE TRAINED AND UNDERSTAND THE OPERATOR'S MANUAL.
- ASSURE SAFETY OF ALL PERSONNEL.
- TILT ONLY WHEN DECAL ALIGNS WITH RED CONTROL HANDLE.
- ASSURE ENGAGEMENT OF WINCH DRUM.



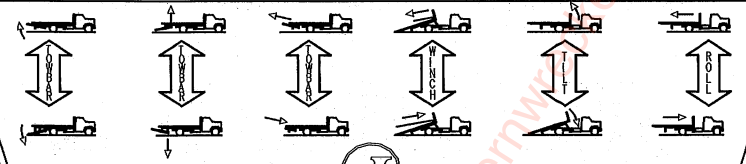
## JERR-DAN

- COMPLY WITH ALL LOAD RATINGS.
- CAPACITY LOADS MUST BE UNIFORMLY DISTRIBUTED.
- ADEQUATELY SECURE ALL LOADS.
- USE SAFETY CHAINS FROM SUBFRAME TO TOWED VEHICLE.

- DO NOT OPERATE IF DAMAGED OR DEFECTIVE.
- ASSURE PROPER MAINTENANCE.
- DISENGAGE PTO BEFORE ENGAGING TRANSMISSION.


219

(ZOD DECAL, LEFT SIDE)



### OPERATING INSTRUCTIONS

- ALL OPERATORS SHOULD BE TRAINED AND UNDERSTAND THE OPERATOR'S MANUAL.
- ASSURE SAFETY OF ALL PERSONNEL.
- TILT ONLY WHEN DECAL ALIGNS WITH RED CONTROL HANDLE.
- ASSURE ENGAGEMENT OF WINCH DOGS.



## JERR-DAN


- COMPLY WITH ALL LOAD RATINGS.
- CAPACITY LOADS MUST BE UNIFORMLY DISTRIBUTED.
- ADEQUATELY SECURE ALL LOADS.
- USE SAFETY CHAIN FROM DECK TO TOWER TUBE (DURING TOWER USE).

- DO NOT OPERATE IF DAMAGED OR DEFECTIVE.
- ASSURE PROPER MAINTENANCE.
- DISENGAGE PTO BEFORE ENGAGING TRANSMISSION.

220

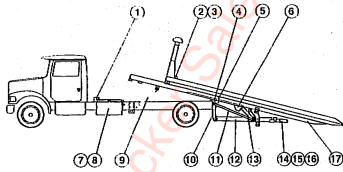
(ZOD DECAL, RIGHT SIDE)

### LUBRICATION CHART



## JERR-DAN®

STANDARD DUTY ROLLBACK



INTERVAL (HOURS)	REF. NO.	IDENTIFICATION	SERVICE	LUBRICANT	NO. OF POINTS
50 OR MONTHLY	2	CABLE	OIL	ENGINE OIL	1
	16	T - HANDLE	OIL	ENGINE OIL	2
	5	VALVE ROLLER	OIL	ENGINE OIL	1
100 OR MONTHLY	9	TILT CYLINDER	LUBE	MPG	4
	10	CYLINDER / LINK	LUBE	MPG	2
	11	WHEEL LIFT LINK	LUBE	MPG	4
	13	WHL CYLINDER	LUBE	MPG	4
	2	WINCH	LUBE	MPG	1
	4	SUBFRAME PIVOT	LUBE	MPG	2
	8	VALVE SPOOLS	CLEAN + OIL	ENGINE OIL	3 - 6
	6	HYD RESERVOIR	CHECK	"	1
	14	CAM LOCK	LUBE	MPG	4
	15	TOW BAR PIVOT	LUBE	MPG	1
	12	WAL EXT CYL	LUBE	MPG	2
	250 OR SEMI-ANNUALLY	3	WINCH GEAR BOX	CHECK	GLS #140
17		HYD FILTER	CHANGE	"	1
1		DECK HINGE	COAT	ENGINE OIL	2
1		HOLD DOWN GUIDE	COAT	MPG	2
1000 OPERATING HOURS	3	WINCH GEAR BOX	DRAIN / FILL	GLS #140	1
	7	HYD RESERVOIR	DRAIN / FILL	"	1

CHART COVERS **JERR-DAN** DECK SYSTEM ONLY

\* INDICATES DUAL RANGE HYD. FLUID 5 W 20

AUTO TRANS FLUID MAY BE SUBSTITUTED IF NECESSARY

273

(LUBRICATION CHART)

# **WARNING**

**5 WRAPS MIN. OF CABLE MUST BE LEFT ON DRUM TO ACHIEVE RATED LOAD.**

**NOT TO BE USED IN THE MOVING OR LIFTING OF PERSONS.**

012

(WINCH)

# **CAUTION**

**OIL LEVEL MUST BE MAINTAINED WITHIN 1/2" OF TOP OF SIGHT TUBE WHEN ALL CYLINDERS ARE FULLY RETRACTED**

272

(HYDRAULIC OIL LEVEL)

**IDENT. NO.**   
**MODEL**   
**VERSION** 

MANUFACTURED BY  
JERR-DAN CORPORATION  
UNDER ONE OR MORE OF  
THE FOLLOWING PATENTS:

4,239,275 4,353,597 4,368,002  
4,741,661 4,797,057 5,044,865  
5,133,633 5,370,196 5,697,741  
5,951,235 DES 284,274

OTHER PATENTS PENDING

338

MANUFACTURED BY  
**JERR-DAN CORP.**  
GREENCASTLE, PENNSYLVANIA

SERIAL NO. 

MODEL NO. 

VEHICLE  
IDENT. NO. 

167

(SUBFRAME ID)

(SERIAL NUMBER)



(DECK ALIGNMENT)

# **WARNING**

**DO NOT EXCEED  
WHEELIFT / TOWBAR  
CAPACITIES AS  
OVERLOADING MAY RESULT  
IN AN UNSAFE STEERING  
AND / OR BRAKING  
CONDITION**

**274**

(WHEEL LIFT WARNING)

**⚠ WARNING ⚠**

VEHICLE MUST BE SECURED  
TO WHEEL GRID USING BOTH TIE DOWN  
STRAPS PRIOR TO LEAVING LOADING SITE.

036

(WHEEL LIFT WARNING)

**⚠ WARNING ⚠**

FULLY RETRACT WHEELIFT  
OR TOWBAR BOOM BEFORE  
SLIDING DECK REARWARD.  
OTHERWISE DAMAGE COULD  
OCCUR TO DECK BEAMS OR  
HYDRAULIC CYLINDER ROD.

165

(WHEEL LIFT WARNING)

**⚠ CAUTION ⚠**

HAVE YOU REVIEWED  
THE OPERATOR'S  
PRE-TRANSPORT  
CHECK LIST  
ON THE UNIT?

139

(CHECKLIST REMINDER)

OPERATOR'S  
PRE-TRANSPORT CHECKLIST



CAUTION



REVIEW THIS CHECKLIST BEFORE EACH TOW.  
FAILURE TO FOLLOW CHECKLIST COULD CREATE  
A DANGEROUS CONDITION FOR YOU, OTHER  
MOTORISTS AND PEDESTRIANS, AND MIGHT  
RESULT IN SERIOUS INJURY OR DEATH.

VEHICLE ON DECK - CHECKLIST:

- HEED ALL WARNINGS ON EQUIPMENT AND CONTROLS.
- DO NOT HOOK CABLE HOOK DIRECTLY TO VEHICLE. USE A HOOK-UP CHAIN, V-STRAP/V-CHAIN ASSEMBLY.
- IS VEHICLE ON DECK ENGINE FORWARD TO AVOID UNLOADING FRONT AXLE OF CHASSIS?
- ARE TWO (2) REAR TIE-DOWN J-HOOKS OR CHAINS SECURELY ATTACHED TO VEHICLE AND DECK?
- IS TOWED VEHICLE IN PARK OR IN GEAR WITH EMERGENCY BRAKE APPLIED?
- DID YOU ATTACH FRONT SAFETY CHAIN/STRAPS TO VEHICLE?
- DO NOT OVERLOAD! SEE LOAD RATING PLACARD ON UNIT. STOP VEHICLE AT ONCE AND REARRANGE LOAD IF YOU NOTICE FRONT END OF TRUCK FEELS LIGHT OR BOUNCES EXCESSIVELY OR IF STEERING FEELS EXCESSIVELY LIGHT. LOSS OF VEHICLE CONTROL CAN RESULT FROM AN OVERLOAD AND CAN CAUSE A SERIOUS ACCIDENT.

VEHICLE ON TOW BAR - CHECKLIST:

- DO NOT LIFT OR TOW A VEHICLE USING THE WHEELIFT SYSTEM UNLESS THERE IS A VEHICLE ON THE DECK.
- DO YOU HAVE TURNING CLEARANCE ON TOWED VEHICLE?
- IS GROUND CLEARANCE SET FOR PROPER TOWING OF SECOND VEHICLE?
- ARE T-HANDLES TIGHTENED SO THAT GRIDS DO NOT MOVE DURING TRANSPORT?
- ARE BOTH WHEEL STRAPS ON TOWED VEHICLE AND TIGHTENED DOWN?
- ARE BOTH SAFETY CHAINS ATTACHED FROM TOWING TRUCK TO TOWED VEHICLE?
- ARE AUXILIARY TOWING LIGHTS ATTACHED TO TOWED VEHICLE?
- DO NOT OVERLOAD YOUR VEHICLE!

© COPYRIGHT 1992 JERR-DAN CORPORATION 275

(CHECKLIST)

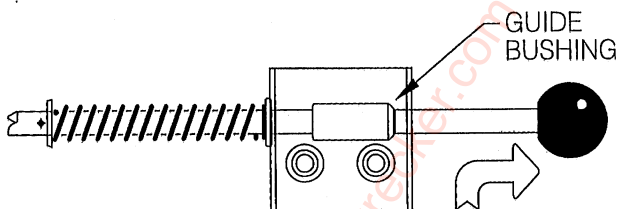
Rev. \_\_\_\_\_

Date \_\_\_\_\_



# WARNING

BEFORE OPERATION, WINCH CLUTCH  
MUST BE COMPLETELY ENGAGED WITH  
BUSHING POSITIONED AS SHOWN



TO ENGAGE: LIFT UP KNOB  
THEN RELEASE. OPERATE  
WINCH TO LATCH IN.

TO DISENGAGE: LIFT  
UP KNOB AND PULL  
OUT, LOCK IN PLACE.

## (FREE-SPOOL OPERATION)

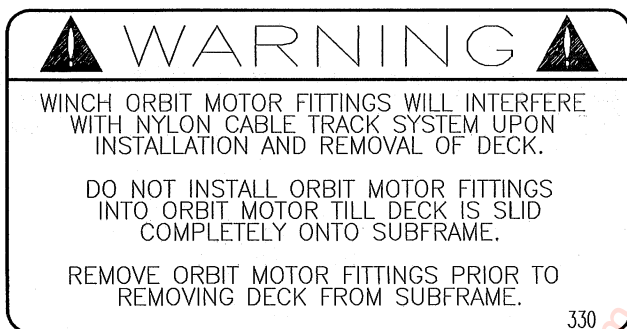
### SLIDE PAD LUBRICATION

INITIAL LUBRICATION:  
LIGHT COAT OF ENGINE OR HYDRAULIC OIL  
ON SLIDE PADS OR BEAM SURFACES.

MAINTENANCE:  
NO FURTHER LUBRICATION OF SLIDE PADS IS  
NECESSARY. KEEP DECK BEAM SURFACES CLEAN.

317

## (SLIDE PAD LUBRICATION)



(ORBIT MOTOR FITTINGS WARNING)

Rev. \_\_\_\_\_

Date \_\_\_\_\_



## OPERATION

### A. Controls

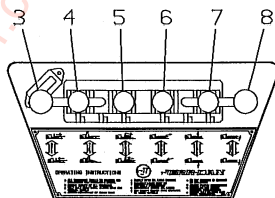
The operating controls for the deck are conveniently located in the control box at the sides of the deck on both the driver's and passenger's side.

All operators must be trained and understand the contents of the operator's manual before operating any controls.

Assure adequate operating clearance and the safety of all personnel before operating the rollback deck.

The following controls are provided:

1. Power-take-off (push-pull knob in truck cab)
2. Auxiliary engine throttle control
3. Rollback control (first handle in control box)
4. Tilt control (second handle in control box)
5. Winch control (third handle in control box)
6. Tow bar - Extend/Retract (fourth handle in control box)
7. Tow bar - Raise/Lower (fifth handle in control box)
8. Tow bar - Raise/Lower (sixth handle in control box)

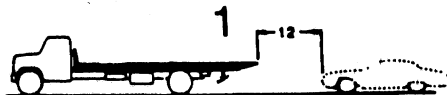


### B. Tilting the Deck/Loading

#### 1. Position

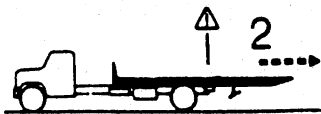
Park the truck with the rear of the deck approximately 12 feet from the object to be loaded and in line with that object.

- 1a. Set the parking brake.
- 1b. With the engine running, engage the PTO per instructions in the truck cab or in the PTO Operating Manual.
- 1c. Set the auxiliary throttle. After operating the unit several times, one will establish a feel for the optimum speed. **DO NOT OVERSPEED.**



## 2. Roll

Raise the rollback handle and the deck will slide back. Roll the deck rearward approximately 12 inches to clear the mechanical hold downs at the front of the frame. A decal is provided on the rubrail to aid in determining the amount to roll. Align the decal pointer with the red control handle.



## 3. Tilt

Raise the tilt control lever, raising the forward end of the deck until the rear bumper rests firmly on the ground.



## 4. Roll

Raise the roll handle and the deck will slide back. Continue this operation until the approach plate of the deck has contacted the ground.

Make sure that the rear bumper and the approach plate are both in firm contact with the ground before loading. There should be an equal weight distribution between the rear bumper and the end of the deck.



## 5. Winch

Attach winch cable to the vehicle. **Refer to the AAA or vehicle manufacturers towing manual for correct attachment points.** With the towed vehicle's transmission in neutral and brakes released, winch the vehicle onto the deck to its transport position (See winch operating instructions). Secure the load against movement in all directions.



**⚠ CAUTION:** Leave winch cable attached and taut. Anchor front of vehicle or load with safety tie-downs to keyslots provided in front of the deck. Winch cable is not intended to tie down and hold load.

**⚠ CAUTION:** Always winch load onto deck, never drive a vehicle onto the tilted deck.

**⚠ CAUTION:** Make sure that the load is side-to-side centered.

**⚠ CAUTION:** Remain clear of load when winching onto deck.

## 6. Roll

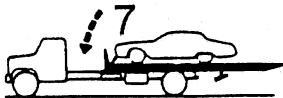
Lower the roll control handle to roll the deck up the incline until the deck is in the proper position for tilting.

**NOTE:** The alignment decal on the rubrail must be even with the red control handle, or slightly behind that handle, when leveling the deck.



## 7. Tilt

Lower the front of the deck until the deck supports align with the wood strips on the frame.



**NOTE:** The deck must **not** be fully forward when tilting or it will damage the hold downs.

## 8. Roll

Roll the deck forward until it is in the full forward position and under the hold downs.



## 9. Secure Load

Securely fasten the load to be transported with safety tie-downs to keyslots provided in rear of deck. Set brakes (if a vehicle) and use wheel blocks and tie-downs for safe transport. **Refer to the AAA or vehicle manufacturers towing manual for correct attachment points.**

**CAUTION:** Use safety tie-downs at front of load. Do not rely on winch cable alone.

## 10. Disconnect PTO

Disconnect the power-take-off before engaging the transmission. Overspeeding of the pump and or PTO will greatly shorten its life and can cause damage to the pump, PTO and transmission.

## C. Operating the Winch

1. Raise the winch control handle to power unreel the cable while a second person keeps the cable taut.

**NOTE:** If a one-man operation exists, disengage the spool and unreel the cable while keeping it taut. Re-engage the spool after unreeling and attaching the cable.

**NOTE:** The winch clutch allows rapid unspooling of the cable from cable drum, for hooking onto the load. The clutch is operated by the remote free-spool knob located on the front driver's side of the headboard.

**NOTE:** TO DISENGAGE CLUTCH, run the winch in the reverse (reel out) direction until the load is off the cable. Lift up knob and pull out, lock in place. The cable may now be free-spooled from the drum.

**NOTE:** TO ENGAGE CLUTCH, lift up knob then release. Run the winch in reverse until the shifter knob snaps fully in or until the cable drum starts turning. The winch is now ready for pulling. DO NOT attempt to pull a load unless the knob is fully at the "IN" position.

2. Lower the winch control handle to wind the cable and pull the load onto the deck.

Rev. \_\_\_\_\_

Date \_\_\_\_\_

**⚠ CAUTION:** Clutch must be totally engaged operating the winch under load.

**⚠ CAUTION:** Do not disengage clutch under load.

**⚠ CAUTION:** Also remember that cables can break, winches fail and hooks become disengaged. **DO NOT WORK BELOW THE LOAD!**

**⚠ CAUTION:** Replace cable when worn or damaged. Always wear gloves when handling cable. **DO NOT USE CABLE CLAMPS.**

**⚠ CAUTION:** Maintain a minimum of five (5) turns of cable on the spool at all times. Also maintain a uniform wrap of the cable on the spool.

## **D. Tilting the Deck/Unloading**

### **1. Position**

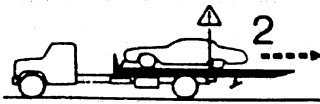
Park the truck with the rear of the deck approximately 12 feet from desired position of vehicle being unloaded.

- 1a. Set the parking brake.
- 1b. With the engine running, engage the PTO per instructions in the truck cab.
- 1c. Set the auxiliary throttle. After operating the unit several times one will establish a feel for the optimum speed. **DO NOT OVERSPEED.**
- 1d. Partially release bindings of the load but maintain restraint against movement of the load in any direction.



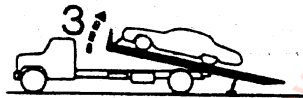
## 2. Roll

Raise the rollback handle and the deck will slide back. Roll the deck rearward approximately 12 inches to clear the mechanical hold downs at the front of the frame. A decal is provided on the rubrail to aid in determining the amount to roll. Align the decal pointer with the red control handle.



## 3. Tilt

Raise the tilt control handle, raising the forward end of the deck until the rear bumper rests firmly on the ground.



## 4. Roll

Raise the roll handle and the deck will slide back. Continue this operation until the approach plate has contacted the ground.

Make sure that the rear bumper and the approach plate are both in firm contact with the ground before unloading. There should be an equal weight distribution between the rear bumper and the end of the deck.



## 5. Winch

Securely tighten the winch cable and finish unbinding the load. Winch off the load (See winch operating instructions). Store the winch cable by fastening the hook to the deck and winching the cable taut.

**⚠ CAUTION:** Remain clear of load when unbinding and winching off the deck.

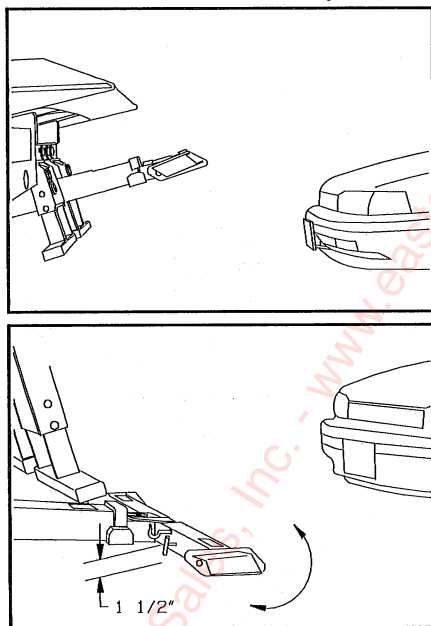




## E. Operation of the Wheel Lift Tow Bar (Option)

The wheel lift tow bar allows a second vehicle to be towed damage free on its own suspension by utilizing a wheel grid similar to the Jerr-Dan HPL wheel lift. The wheel lift cross bar may also be used as a conventional tow bar for badly damaged or heavier vehicles.

**CAUTION:** Because of the additional boom extension and load point of the towed vehicle, the wheel lift tow bar places more load on the rear axle and unloads the front axle more than a conventional tow bar. Overloading wheel lift tow bar may result in unsafe steering and braking conditions and may damage truck frame. Also, never use wheel lift without a vehicle on the deck. Single vehicle recovery should utilize the deck only.



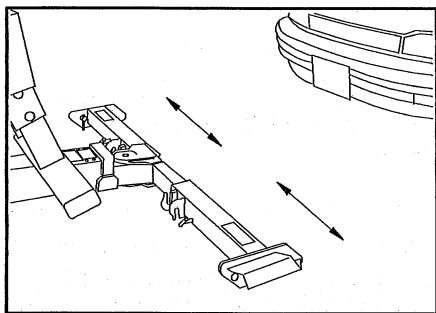
1. Position the truck within three (3) to four (4) feet of the subject vehicle and as close to the direction of the pull as possible.
- 2a. Set the parking brake.
- 2b. With the engine running, engage the PTO per instructions in the truck cab or in the PTO Operating Manual.
- 2c. Set the auxiliary throttle. After operating the unit several times, one will establish a feel for the optimum speed. **DO NOT OVERSPEED.**

**Be sure the towed vehicle is not in gear or park. Keep the brake set.**

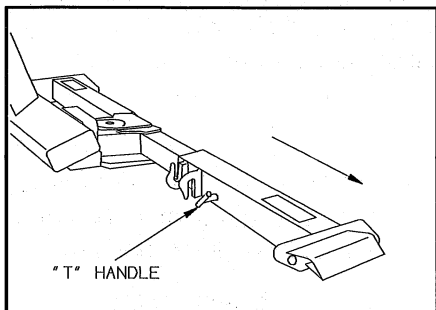
3. Lower the lift arm to about 1-1/2 inches from the ground and swing the cross bar parallel to the tires.

Rev. \_\_\_\_\_

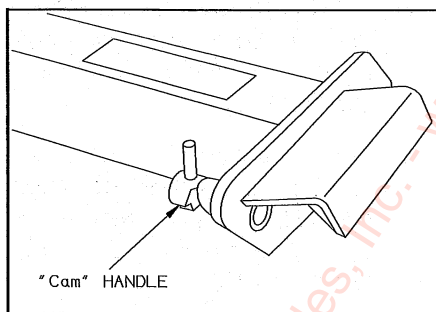
Date \_\_\_\_\_



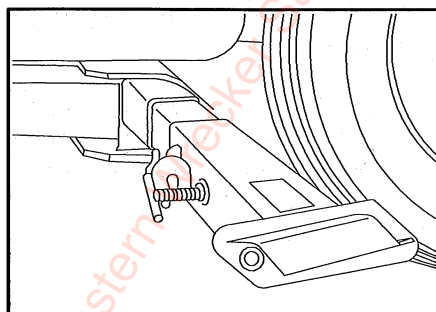
4. Set the grid width as required for the vehicle to be towed. Be sure both grids are as close to the center of the boom as possible.



5. To set the grid width, loosen the "T" handles on the front of the grid arms and pull the grids out. Be sure both grids are as close to the center of the boom as possible, and wide enough to allow the "L" arms to slide into their channels. Tighten the "T" handles to secure the grids.



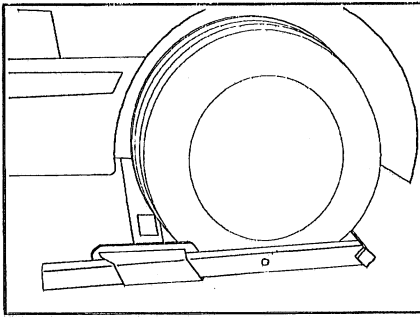
6. Retract the "Cam" handle locking pin on the grid by turning it a half turn. It should remain in the open position.



7. Extend the lift arm under the vehicle being sure that all under carriage parts are cleared and that the front portion of the grid is in contact with both tires. Lower the grid fully to the ground. **There is no reason for the operator to get under the vehicle.**
8. Visually inspect the tire to grid contact before proceeding.
9. Take the "L" arms and slide them into the channels on the side of the grid. Insure that they are resting snugly against the tires, with the "L" arms in close contact with the tires, reset the locking pin by turning the "Cam" handle back to the original position. **Be sure that the pin seats in one of the holes.** The tires are now confined front and back.

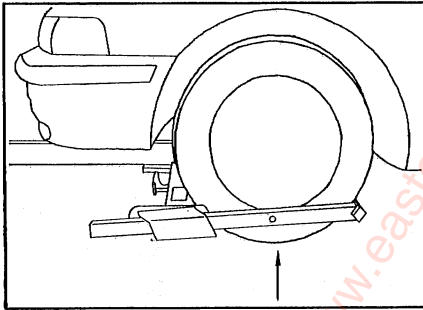
Rev. \_\_\_\_\_

Date \_\_\_\_\_



10. After securing the grid arm around the towed vehicle's tires and before making the actual lift, check to be sure the towed vehicle's parking brake is released, the transmission is in neutral, and the wheels are straight.

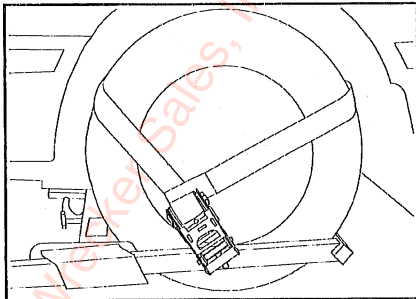
**NOTE:** If vehicle to be towed is on a slope, do not release the brake until the tie-down straps are installed. Observe the wheels in the grid for any slippage.



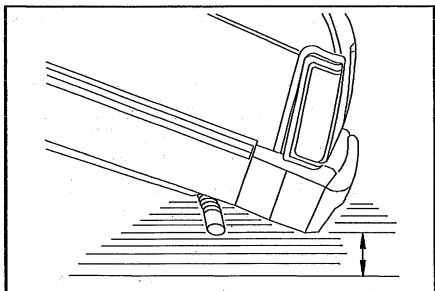
11. It is recommended that the steering wheel of the towed vehicle be secured in the straight position by a steering wheel strap for any tow.

12. Lift the vehicle high enough to allow tires to clear ground.

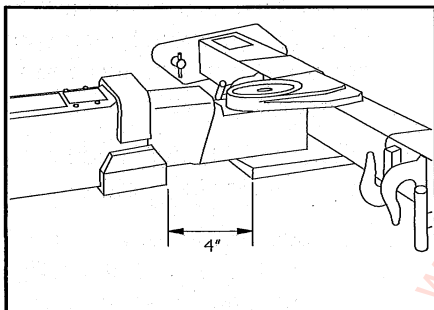
13. Remove the tie-down straps from toolboxes and attach the tie-down straps. (See the following section on the tie-down straps.)



14. With the straps in place, the vehicle in neutral and the parking brake released, you can move the vehicle safely up, down, in or out. All of these movements are hydraulically controlled.

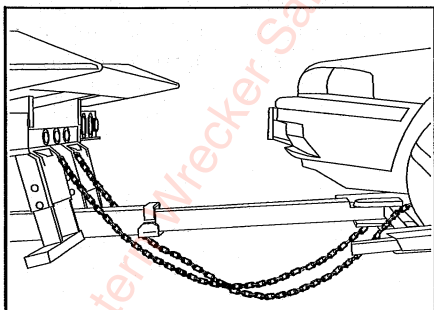


15. Raise the vehicle into the final towing position observing the far end for sufficient ground clearance. It is possible to set the rear of a front lifted vehicle completely onto the ground, causing damage. Take irregular road-surfaces into consideration. Observe the lift function from the side and away from both vehicles if possible. Make sure that there are no under body components of the towed vehicle in contact with the "L" arms or wheel grid device. Readjust if necessary.



16. Power retract the grid boom until the towed vehicle is about three (3) to four (4) feet from the back of the truck. Leave enough room to maneuver around corners without corner binding or causing contact between the two (2) vehicles. **Be sure that the boom is extended at least 4 inches to insure unobstructed crossbar pivoting.**

17. Be sure to maintain sufficient clearances with the bottom of the towed vehicle.



18. Attach the safety chains and magnetic towing lights. **SAFETY CHAINS MUST BE CROSSED.**

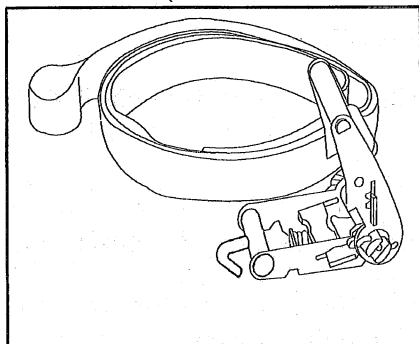
Rev. \_\_\_\_\_

Date \_\_\_\_\_

- ⚠ CAUTION:** Always tow with the tow bar extended so that adequate clearance is maintained between deck and towed vehicle.
- ⚠ CAUTION:** Properly secure the vehicle being towed. Use separate safety chains from towed vehicle to truck sub-frame.
- ⚠ CAUTION:** After unloading the vehicle being towed, retract the tow bar before tilting or rolling the deck.
- ⚠ CAUTION:** When not in use, tow bar must be in upper position and fully retracted.
- ⚠ CAUTION:** The tow bar option is designed for the transport of a second vehicle only. Under no circumstances should a single vehicle recovery be transported on the tow bar as it may cause unsafe steering and braking conditions. Single vehicle recovery should be on the deck only.

## TIE-DOWN STRAPS

Your carrier is supplied with a set of high strength polyester web tie-down straps. They are to be used to secure wheels of the towed vehicle to the wheel lift grid. **NEVER TOW A VEHICLE WITHOUT THE TIE-DOWN STRAPS INSTALLED.**

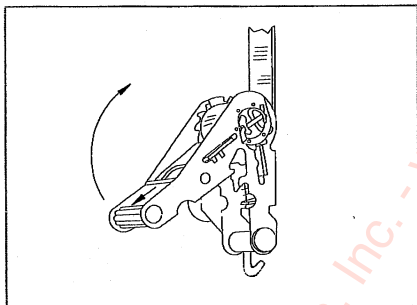


The tie-down strap assembly is comprised of three (2) basic components:

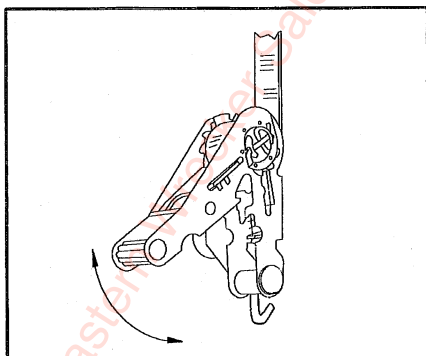
1. The strap
2. The ratchet spool mechanism

The following steps should be followed to properly install the tie-down straps:

### USING THE RATCHET SPOOL MECHANISM

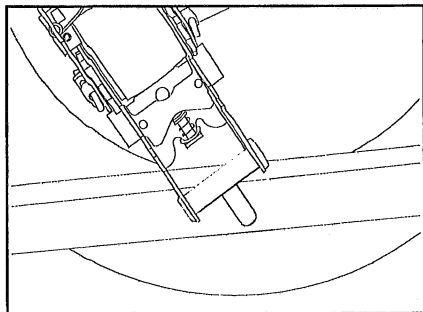


1. First the spool must be set into "free spool". This is done by pulling the lock bar out and swinging the handle upward until it rests in the free spool notch and then simply pulling out the amount of strap required to fit over the tire.

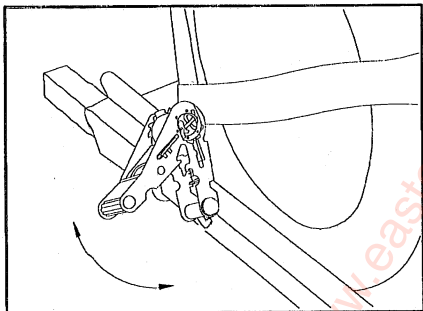


2. Now pull on the lock bar and move it downward until it engages the ratchet teeth on the take up spool. By pushing and pulling the handle up and down, the strap will be wound onto the spool.
3. To release the ratchet, simply pull on the locking bar, disengaging the teeth and raise the handle to the "free spool" position.

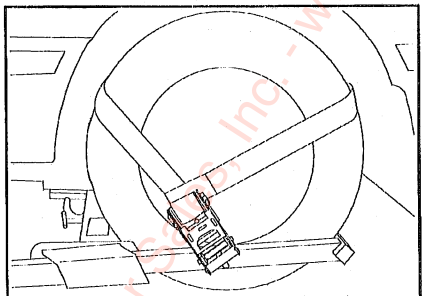
## INSTALLING THE TIE-DOWN STRAP



1. With the vehicle lifted just barely off the ground, attach the strap to the wheel grid. Be sure the hook on the ratchet is securely seated in the "L" arm.



2. Set the ratchet spool in "free spool" position and pull the webbed strap out and form a loop which will wrap around the tire. Be sure the loop is over a minimum of  $\frac{1}{3}$  of the tire.



3. Take up the slack in the strap by ratcheting the takeup spool arm. Continue until the tires show some compression.

4. Raise the wheel grid to the towing position. **RE-TIGHTEN THE RATCHET PERIODICALLY AS TIRE SETTLES IN GRID FROM TOWING.**

Eastern Wrecker Sales, Inc. - [www.easternwrecker.com](http://www.easternwrecker.com) - 919-553-4038



## MAINTENANCE AND LUBRICATION

Jerr-Dan rollback truck decks are designed for years of service with little maintenance. This small amount of maintenance, however, is very important for durability and for safe operation of the deck.

Maintenance is an owner/user responsibility as neither the manufacturer nor the distributor can normally control this function.

Use only safe practices when maintaining this equipment. Never get under a tilted deck unless it is adequately supported (don't rely on the hydraulic system). Always shut off the engine before reaching into pinch areas as when checking the hydraulic oil level or greasing under the deck. Maintain a clean shop for safety. Clean up spilled oil immediately.

Inspect the vehicle and deck 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.

Sliding surfaces of deck beams are to be cleaned and coated with engine oil periodically. Cleaning every six (6) months 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. See Lube Chart.

Check the hydraulic oil level bimonthly or after any leakage. Use 5W20 Dual Range hydraulic oil. (Automatic transmission fluid may be used in the hydraulic system if necessary.)

The proper oil level is best checked by rolling the deck back enough to gain access to the fill plug (unless the chassis configuration caused the oil tank to be mounted abnormally far to the rear). The oil tank should be about 2/3 full with the deck so positioned (shut off the engine after moving the deck). This will result in a 3/4 full tank with the cylinders fully retracted (deck fully forward). (Proper oil level is achieved when the hydraulic oil is within 1/2 inch of top of sight tube.)

The hydraulic filter located on the return side of the hydraulic tank comes equipped with a restriction indicator gauge. This gauge shows the operator the condition of the filter element. 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 gauge with hydraulic fluid at operating temperatures. Cold oil is more dense and will give a false indicator gauge reading.**

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 emory 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.

# LUBRICATION CHART



**JERR-DAN®**  
STANDARD DUTY ROLLBACK

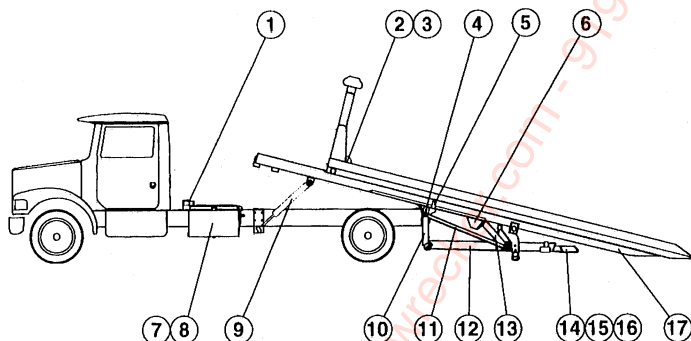


CHART COVERS **JERR-DAN** DECK SYSTEM ONLY

\*INDICATES DUAL RANGE HYD. FLUID 5 W 20

AUTO TRANS FLUID MAY BE SUBSTITUTED IF NECESSARY

INTERVAL (HOURS)	REF. NO.	IDENTIFICATION	SERVICE	LUBRICANT	NO. OF POINTS
50 OR MONTHLY	2	CABLE	OIL	ENGINE OIL	1
	16	T - HANDLE	OIL	ENGINE OIL	2
	5	VALVE ROLLER	OIL	ENGINE OIL	1
100 OR BI- MONTHLY	9	TILT CYLINDER	LUBE	MPG	4
	10	CYLINDER/LINK	LUBE	MPG	2
	11	WHEEL LIFT LINK	LUBE	MPG	4
	13	IRL CYLINDER	LUBE	MPG	4
	2	WINCH	LUBE	MPG	1
	4	SUBFRAME PIVOT	LUBE	MPG	2
	6	VALVE SPOOLS	CLEAN & OIL	ENGINE OIL	3 - 6
	8	HYD RESERVOIR	CHECK	*	1
	14	CAM LOCK	LUBE	MPG	4
	15	TOW BAR PIVOT	LUBE	MPG	1
	12	W/L EXT CYL	LUBE	MPG	2
250 OR SEMI- ANNUALLY	3	WINCH GEAR BOX	CHECK	GL5 # 140	1
	8	HYD FILTER	CHANGE		1
	17	DECK I BEAM	COAT	ENGINE OIL	2
	1	HOLD DOWN GUIDE	COAT	MPG	2
1000 OPERATING HOURS	3	WINCH GEAR BOX	DRAIN/FILL	GL5 # 140	1
	7	HYD RESERVOIR	DRAIN/FILL	*	1

Rev. \_\_\_\_\_

Date \_\_\_\_\_

# TROUBLESHOOTING

## PROBLEM

## CAUSE

## SOLUTION

### PROBLEMS ENCOUNTERED WHILE UNIT IS IN TRANSIT

- |                                |                           |                                       |
|--------------------------------|---------------------------|---------------------------------------|
| Looseness and rattling of deck | a. Loose Hold Down Blocks | a. Shim Hold Down Blocks as required. |
|--------------------------------|---------------------------|---------------------------------------|

### WINCH FUNCTIONING IMPROPERLY

- |  |   |   |
|--|---|---|
| Winch screeches during operation             | a. Insufficient lubrication                 | a. Lubricate per lube chart             |
| Winch will not pull load on deck             | a. Free spooling device disengaged          | a. Engage                               |
|  | b. Insufficient Relief Valve pressure       | b. Reset to correct setting using gauge |
|  | c. Sheared keys or broken chain at coupling | c. Inspect and replace                  |
|  | d. Hydraulic pump worn                      | d. Inspect and replace                  |
| Cable build-up on one side of spool or other | a. Off centered load                        | a. Recenter load if possible            |

### VALVE BANK FUNCTIONING IMPROPERLY

- |   |  |   |
|---|--|---|
| Valve bypasses oil or squeals during all operations | a. Insufficient relief valve setting                               | a. Reset to correct setting using gauge |
| Valve handles stick, tight or frozen                | b. Broken relief spring  | b. Inspect and replace                  |
|   | b. Broken centering spring or clogged with dirt at bottom of spool | b. Inspect, clean or replace            |
| Valve leaks at top or bottom of spools              | a. Defective seals   | a. Replace                              |

### CYLINDERS FUNCTIONING IMPROPERLY

- |                                |                               |   |
|--------------------------------|-------------------------------|---|
| Cylinders leak oil             | a. Defective seals or rod     | a. Inspect and replace                              |
| Erratic operation of cylinders | a. Air in hydraulic system    | a. Cycle hydraulic system 10-15 times to remove air |
|                                | b. Defective pump (Pulsating) | b. Replace if necessary                             |

### HYDRAULIC SYSTEM FUNCTIONING IMPROPERLY

- |                |   |   |
|----------------|---|---|
| Slow Operation | a. Low engine RPM                         | a. Speed up engine  |
|                | b. Low oil level                          | b. Reservoir should be 3/4 full with cylinders retracted  |
|                | c. Blocked, restricted or collapsed hoses | c. Inspect, remove blockage or reposition hoses affected  |
|                | d. Dirty hydraulic oil                    | d. Drain, flush and refill with clean oil                 |
|                | e. Hydraulic pump worn                    | e. Rebuild or replace                                     |
|                | f. Relief valve in valve bank bypassing   | f. 1) Reset to correct pressure using gauge               |
|                |   | 2) Check if relief spring is broken. Replace if necessary |
|                |   |   |
|                |   |   |

Rev. \_\_\_\_\_

Date \_\_\_\_\_

## TROUBLESHOOTING

### PROBLEM

### CAUSE

### SOLUTION

#### P.T.O. FUNCTIONING IMPROPERLY

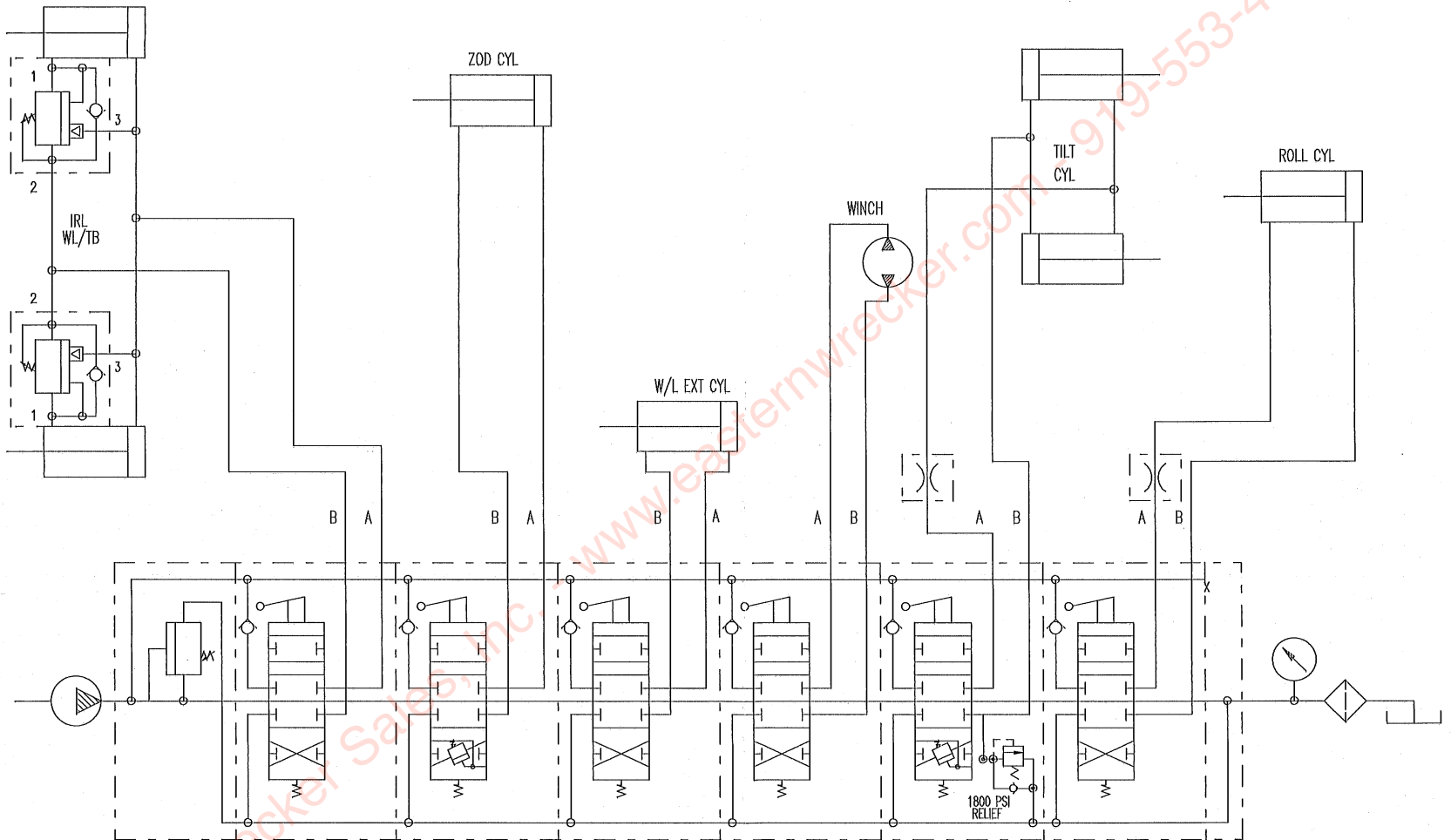
Cable tight or frozen	a. Cable kinked or bent b. Cable and P.T.O. connection not adjusted properly c. Mounting bracket nuts are over tightened at P.T.O. knob	a. Straighten or replace b. Inspect and adjust c. Loosen if necessary
Rattling noise in P.T.O.	a. P.T.O. backlash too loose	a. Shims must be removed (Consult P.T.O. manual)
Howling noise in P.T.O.	a. P.T.O. backlash too tight	a. Shims must be added (Consult P.T.O. manual)
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 P.T.O. connection not adjusted properly b. Defective shifter cover plate	a. Inspect and adjust b. Inspect and replace

#### HYDRAULIC PUMP FUNCTIONING IMPROPERLY

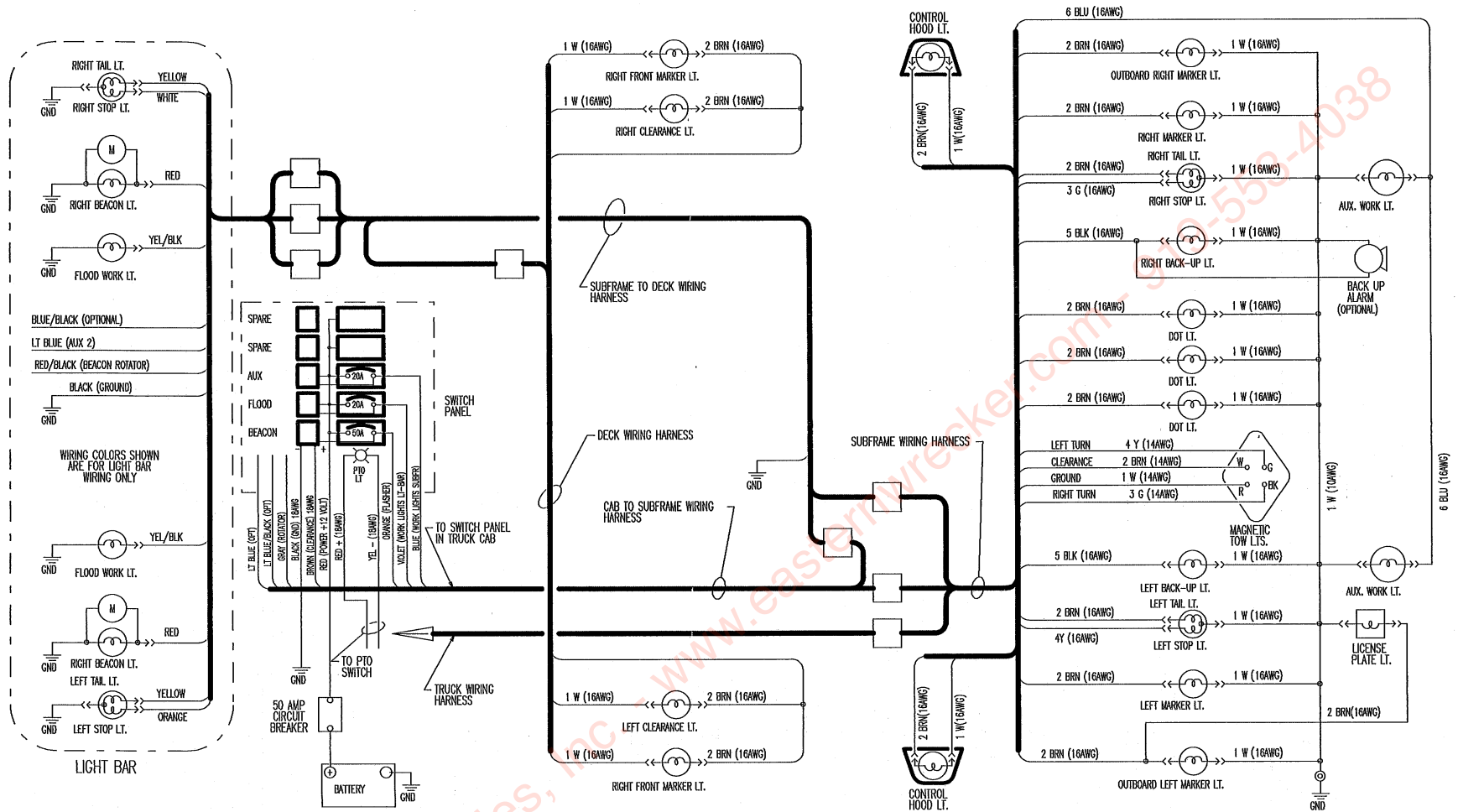
Cavitation: pump unusually noisy	a. Low oil supply b. Heavy oil c. Dirty oil filter d. Restriction in suction line	a. Fill to proper level b. Fill with proper oil c. Clean or replace d. Remove
Pump takes too long to respond or fails to respond	a. Low oil supply b. Insufficient relief valve pressure c. Pump worn or damaged	a. Fill to proper level b. Reset to correct setting using gauge c. Repair or replace
Oil Heating up	a. Foreign material lodged in relief valve b. Using too light oil c. Dirty oil d. Oil level too low e. Insufficient relief valve pressure f. Relief valve pressure too high g. Pump worn (slippage)	a. Inspect and remove b. Drain and refill with clean oil c. Drain, flush, and refill with clean oil d. Fill to proper level e. Set to correct setting using gauge f. Same as "e" g. Repair or replace
Oil foaming	a. Air leaking into suction line from tank to pump b. Wrong kind of oil c. Oil level too low	a. Tighten all connections b. Drain and refill with non-foaming type hydraulic oil c. Fill to proper level
Hydraulic oil leak between P.T.O. and pump	a. Defective shaft seal	a. Replace shaft seal
Pump leaks at front and rear covers	a. Defective seals	a. Replace seals

**THIS PAGE INTENTIONALLY LEFT BLANK**

# HYDRAULIC SCHEMATIC



## ELECTRICAL SCHEMATIC



DECK AND SUBFRAME WIRING SCHEMATIC PLAN VIEW

CIRCUIT	COLOR	FUNCTION
1	WHITE	GROUND
2	BROWN	CLEARANCE
3	GREEN	R.H. STOP/TURN
4	YELLOW	L.H. STOP/TURN
5	BLACK	BACK-UP
6	BLUE	WORK LIGHTS (SUBFRAME)
7	VIOLET	WORK LIGHTS (LIGHT BAR)
8	GRAY	BEACON (ROTATORS)
9	ORANGE	AUX 1 (FLASHER)
10	LT.BLUE/BLACK	OPTIONAL
11	LT.BLUE	AUX 2

**CODE**  
BLK = BLACK  
BRN = BROWN  
BLU = BLUE  
G = GREEN  
R = RED  
Y = YELLOW  
LT = LIGHT  
OR = ORANGE  
W = WHITE



## PARTS

To order repair parts, call your nearest Jerr-Dan Distributor or call 800-926-9666 for further information.

Give Sales Order No., Serial No. and Model No. along with part number and description of part.

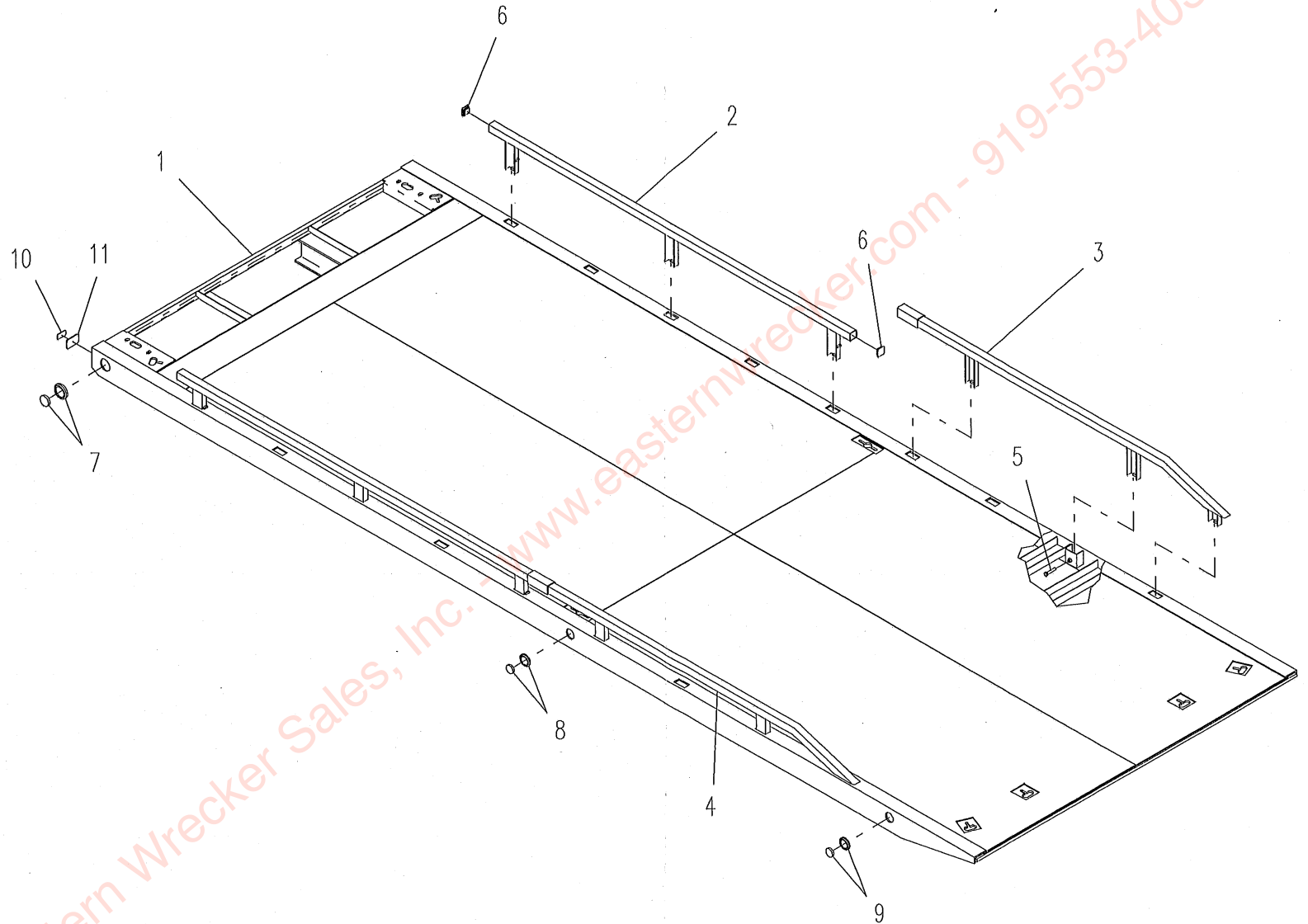
## PARTS LIST — 22' DECK

Ref. No.	Part No.	Description	Qty.
1	3097000197	M15 Steel Deck	1
	3097000199	Transporter Deck	
2	3729000126	Rail - Front	1
3	3729000128	Rail - Right Rear	1
4	3729000127	Rail - Left Rear	2
5	7120000005	Capscrew	12
6	7701000033	End Cap	4
7	7590000045	Marker Light / Grommet	2
8	7590000010	Marker Light / Grommet	2
9	7590000079	Marker Light / Grommet	2
10	7590000090	Marker Light	2
11	7493000010	Grommet	2

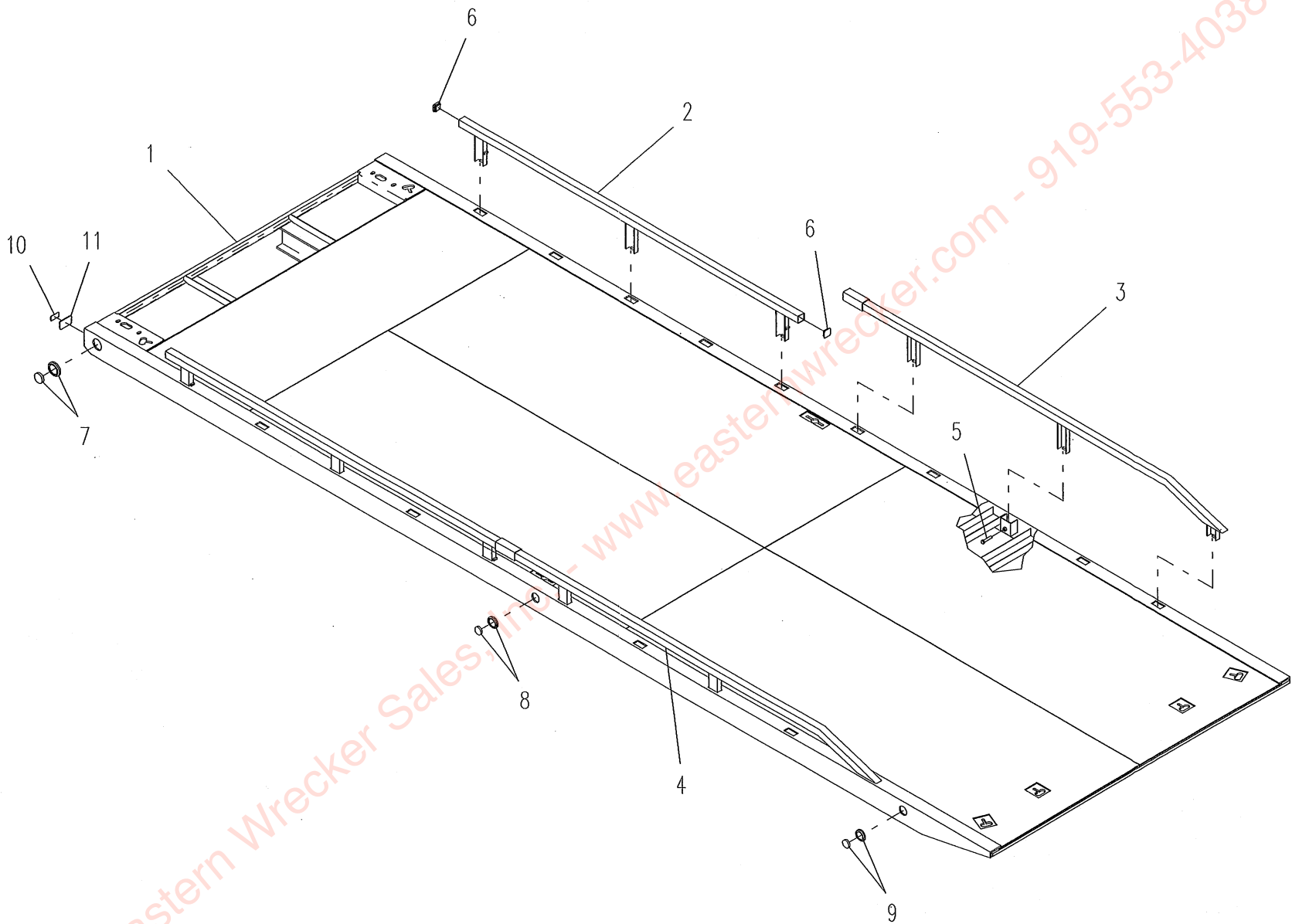
Rev. \_\_\_\_\_

Date \_\_\_\_\_

# 22' DECK



24' DECK



# **PARTS LIST — 24' DECK**

Ref. No.	Part No.	Description	Qty.
1	3097000198	M15 Steel Deck	1
	3097000200	Transporter Deck	
2	3729000126	Rail - Front	1
3	3729000130	Rail - Right Rear	1
4	3729000129	Rail - Left Rear	2
5	7120000005	Capscrew	12
6	7701000033	End Cap	4
7	7590000010	Marker Light / Grommet	2
8	7590000045	Marker Light / Grommet	2
9	7590000079	Marker Light / Grommet	2
10	7590000090	Marker Light	2
11	7493000010	Grommet	2

## PARTS LIST — WINCH & CABLE ROLLER GUIDE

Ref. No.	Part No.	Description	Qty.
1	7970000072	Winch	1
2	7626000014	Orbit Motor	1
3	7115181450	Capscrew	4
	7115182650 <sup>*</sup>	Capscrew	4
4	7660182301	Locknut	4
5	7950180153	Flatwasher	4
6	9970414952	Capscrew	2
7	7950180400	Lockwasher	2
8	7445081045	Fitting	2
9	7248000044	Cable	1
10	4062000318 <sup>*</sup>	Bar	2
11	3178000238 <sup>1</sup>	Bracket	1
12	4912000087 <sup>1</sup>	Roller Tube	2
13	4912000130 <sup>1</sup>	Roller Tube	2
14	4806000011 <sup>1</sup>	Roller Shaft	2
15	4806000014 <sup>1</sup>	Roller Shaft	1
16	4806000015 <sup>1</sup>	Roller Shaft	1
17	7843000007 <sup>1</sup>	Spring	2
18	7660141600 <sup>1</sup>	Locknut	2
19	7949000034 <sup>1</sup>	Spacer	4
20	7754000022 <sup>1</sup>	Retaining Ring	8
21	7111141407 <sup>1</sup>	Bolt	2
22	7209000011 <sup>1</sup>	Bushing	8
23	7115181250	Capscrew	4
24	7660182601	Locknut	4

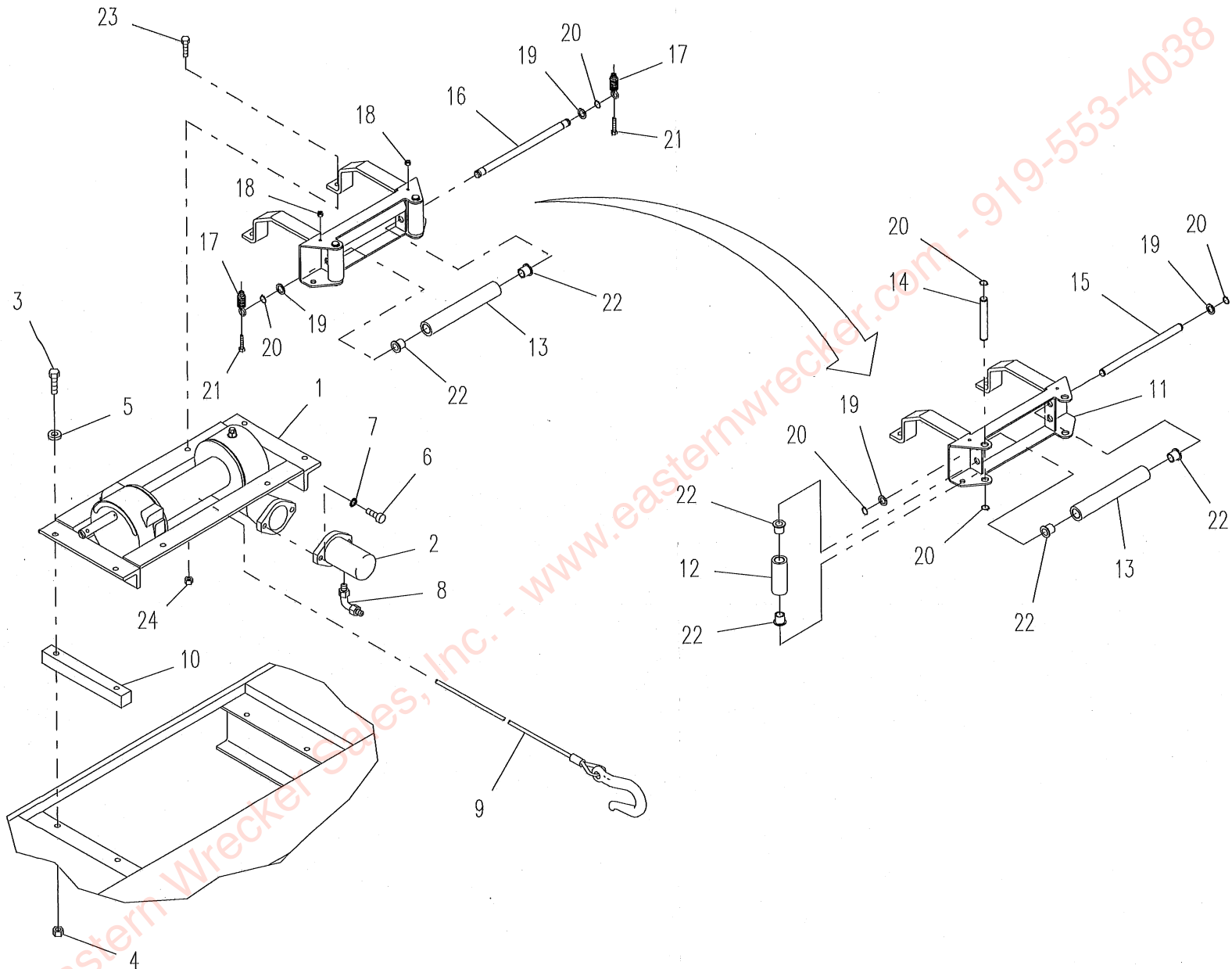
\* Available on Transporter Decks only

<sup>1</sup> Also Available in Assembly #3249000004

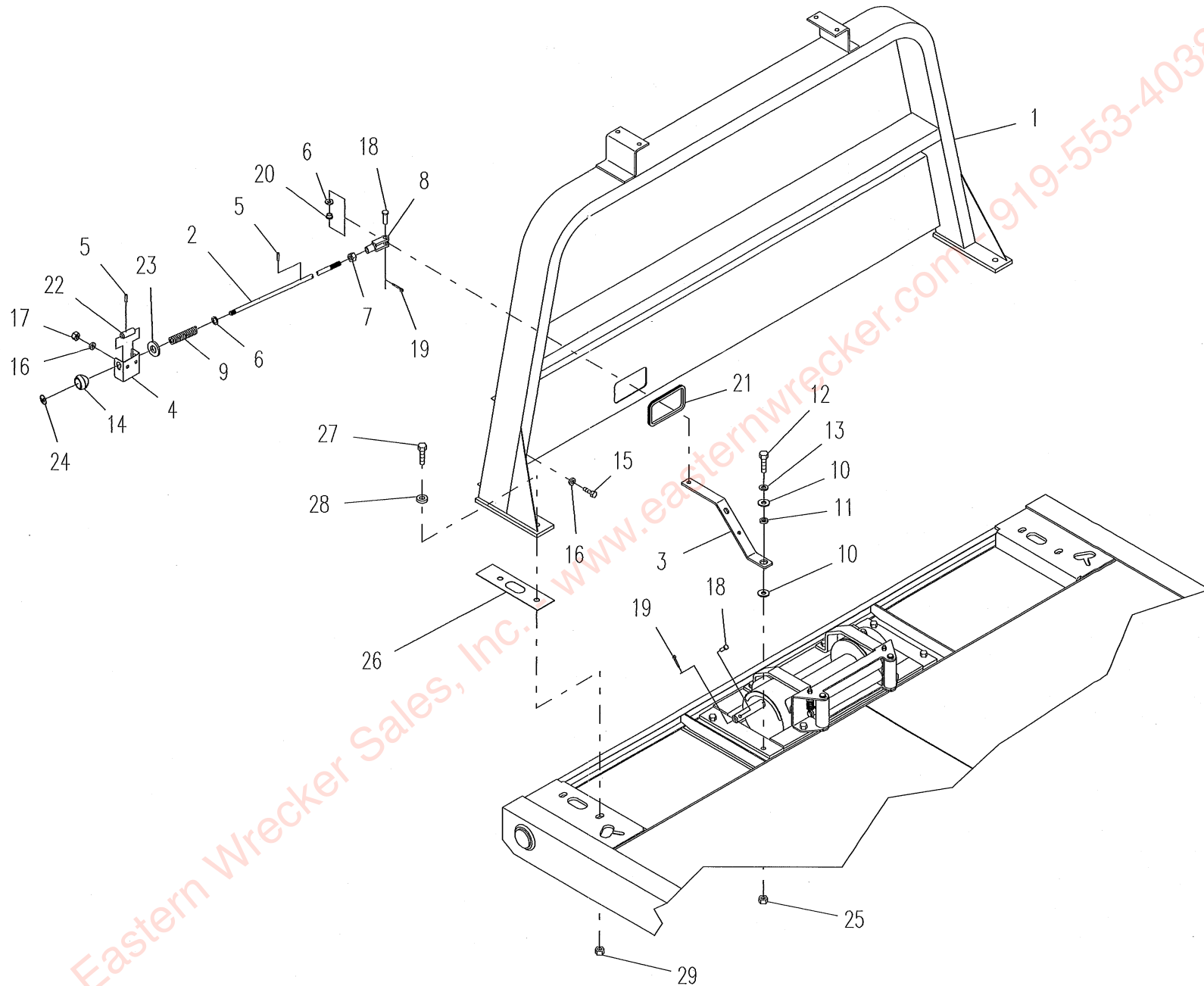
Rev. \_\_\_\_\_

Date \_\_\_\_\_

# WINCH & CABLE ROLLER GUIDE



# STANDARD HEADBOARD & WINCH FREE SPOOL





# **PARTS LIST — STANDARD HEADBOARD & WINCH FREE SPOOL**

Ref. No.	Part No.	Description	Qty.
1	3241000081	Standard Headboard (34.50")	1
	3241000082	Standard Headboard (40.50")	
	3241000083	Standard Headboard (45.50")	
	3241000084	Standard Headboard (52.50")	
2	4763000199 <sup>1</sup>	Rod	1
3	4706001955 <sup>1</sup>	Lever	1
4	4706001956 <sup>1</sup>	Bracket	1
5	7690051274 <sup>1</sup>	Spring Pin	2
6	7950180143 <sup>1</sup>	Flatwasher	2
7	7660180234 <sup>1</sup>	Nut	1
8	7990000011 <sup>1</sup>	Yoke	1
9	7843000023 <sup>1</sup>	Spring	1
10	7082000010 <sup>1</sup>	Nylon Washer	2
11	4209000146 <sup>1</sup>	Bushing	1
12	7115181650 <sup>1</sup>	Capscrew	1
13	7950180161 <sup>1</sup>	Flatwasher	1
14	7551000013 <sup>1</sup>	Knob	1
15	7115150850 <sup>1</sup>	Capscrew	2
16	7950150161 <sup>1</sup>	Flatwasher	4
17	7660152601 <sup>1</sup>	Locknut	2
18	7690182201 <sup>1</sup>	Clevis Pin	2
19	7690051611 <sup>1</sup>	Cotter Pin	2
20	7082000009 <sup>1</sup>	Bearing Flange	1
21	4632000009 <sup>1</sup>	Trim Lok	1
22	4209000147 <sup>1</sup>	Bushing	1
23	7949000030 <sup>1</sup>	Nylon Washer	1
24	7330000255 <sup>1</sup>	Decal	1
25	7660182301	Locknut	1
26	4796000037	Gasket	2
27	7105201650	Capscrew	4
28	7950200152	Flatwasher	4
29	7660200035	Nut	2

<sup>1</sup> Also Available in Assembly #2970000021

# **PARTS LIST — DELUXE HEADBOARD & WINCH FREE SPOOL**

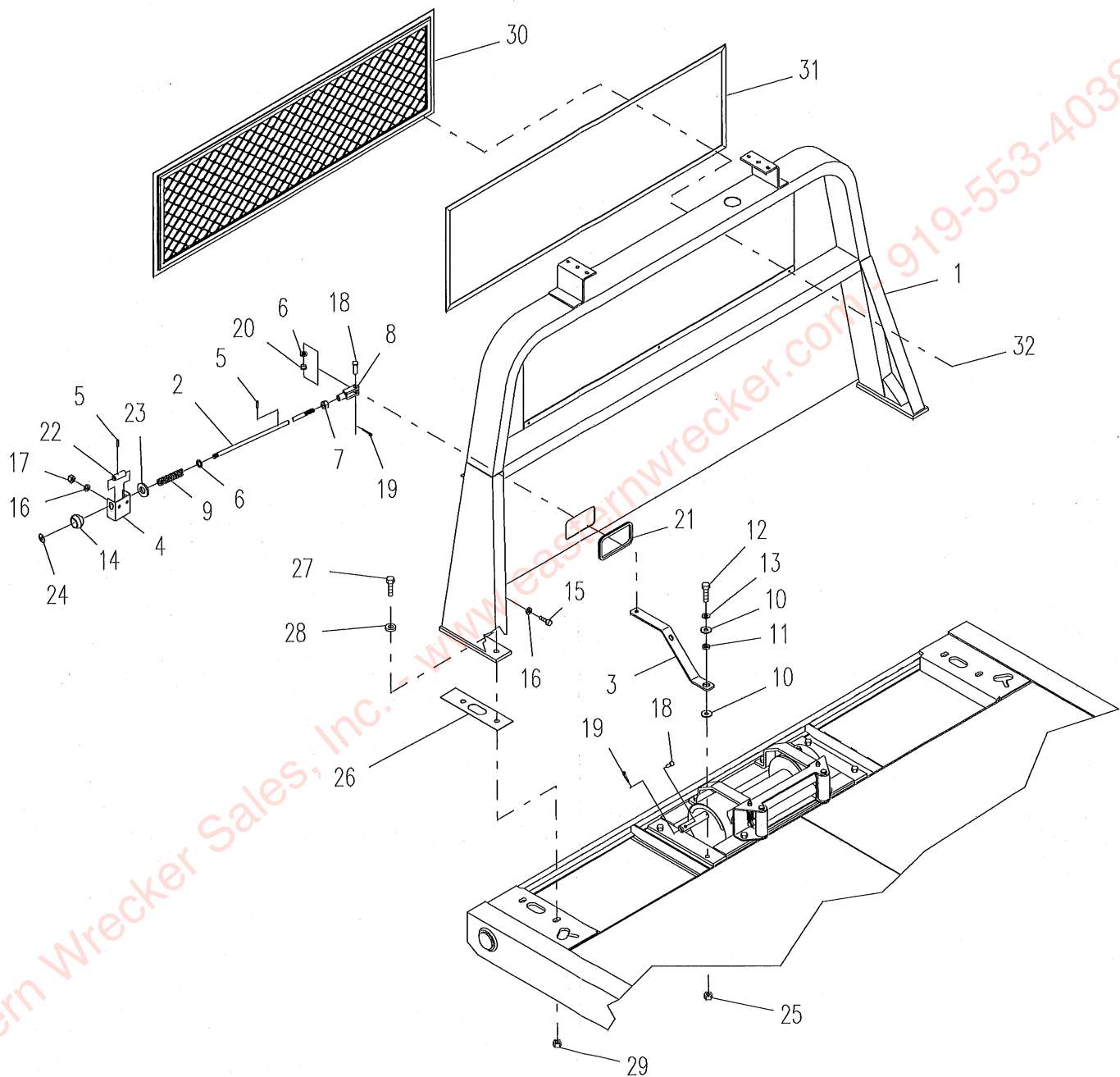
Ref. No.	Part No.	Description	Qty.
1	3241000085	Deluxe Headboard (34.50")	1
	3241000086	Deluxe Headboard (40.50")	
	3241000087	Deluxe Headboard (45.50")	
	3241000088	Deluxe Headboard (52.50")	
2	4763000199 <sup>1</sup>	Rod	1
3	4706001955 <sup>1</sup>	Lever	1
4	4706001956 <sup>1</sup>	Bracket	1
5	7690051274 <sup>1</sup>	Spring Pin	2
6	7950180143 <sup>1</sup>	Flatwasher	2
7	7660180234 <sup>1</sup>	Nut	1
8	7990000011 <sup>1</sup>	Yoke	1
9	7843000023 <sup>1</sup>	Spring	1
10	7082000010 <sup>1</sup>	Nylon Washer	2
11	4209000146 <sup>1</sup>	Bushing	1
12	7115181650 <sup>1</sup>	Capscrew	1
13	7950180161 <sup>1</sup>	Flatwasher	1
14	7551000013 <sup>1</sup>	Knob	1
15	7115150850 <sup>1</sup>	Capscrew	2
16	7950150161 <sup>1</sup>	Flatwasher	4
17	7660152601 <sup>1</sup>	Locknut	2
18	7690182201 <sup>1</sup>	Clevis Pin	2
19	7690051611 <sup>1</sup>	Cotter Pin	2
20	7082000009 <sup>1</sup>	Bearing Flange	1
21	4632000009 <sup>1</sup>	Trim Lok	1
22	4209000147 <sup>1</sup>	Bushing	1
23	7949000030 <sup>1</sup>	Nylon Washer	1
24	7330000255 <sup>1</sup>	Decal	1
25	7660182301	Locknut	1
26	4796000037	Gasket	2
27	7105201650	Capscrew	4
28	7950200152	Flatwasher	4
29	7660200035	Nut	2
30	3391000013	Screen (34.50")	1
	3391000014	Screen (40.50 & 45.50")	
	3391000015	Screen (52.50")	
31	4796000004	Gasket (34.50")	1
	4796000003	Gasket (40.50, 45.50, & 52.50")	
32	7759000013	Rivet	6

<sup>1</sup> Also Available in Assembly #2970000021

Rev. \_\_\_\_\_

Date \_\_\_\_\_

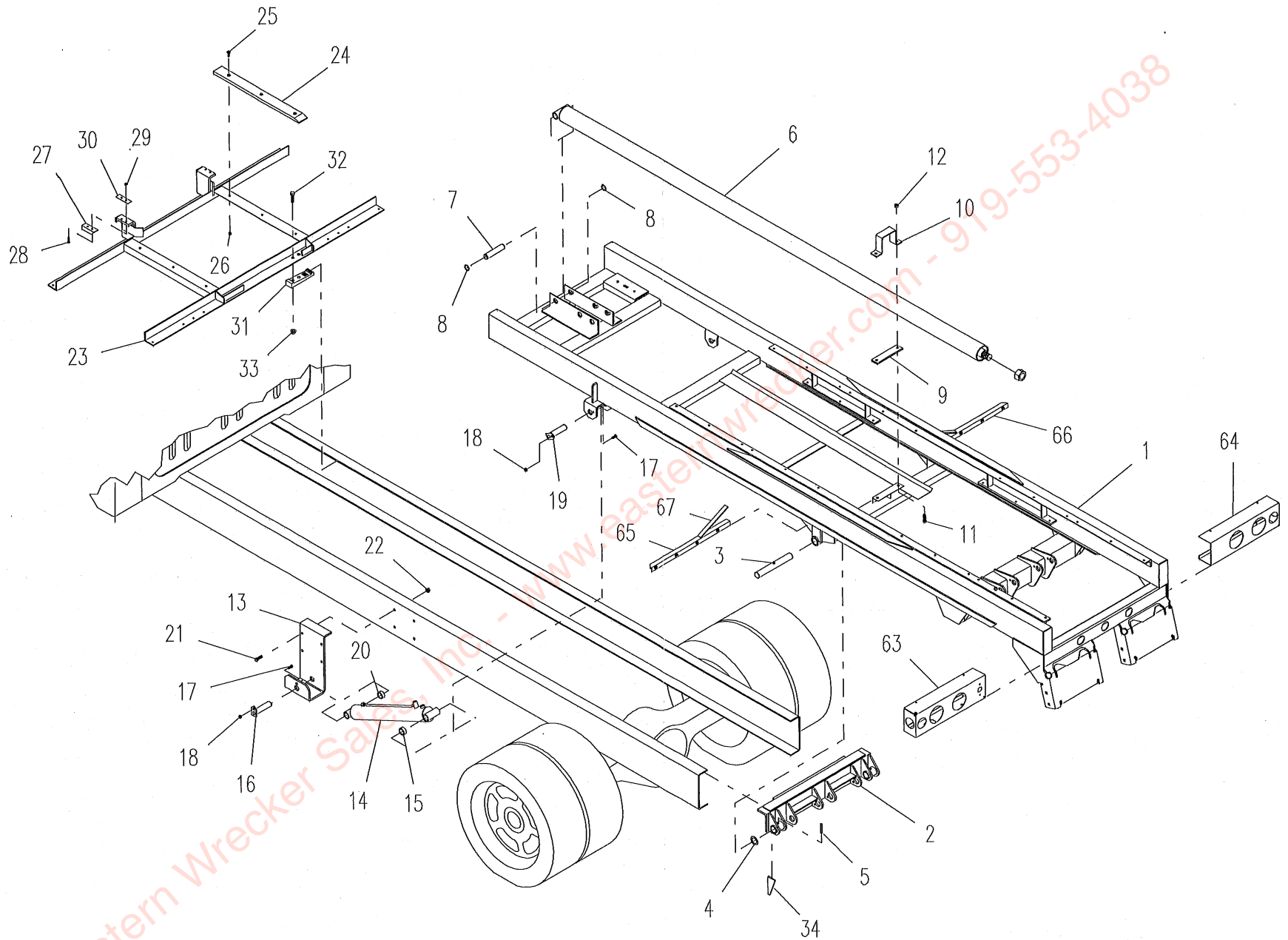
# DELUXE HEADBOARD & WINCH FREE SPOOL



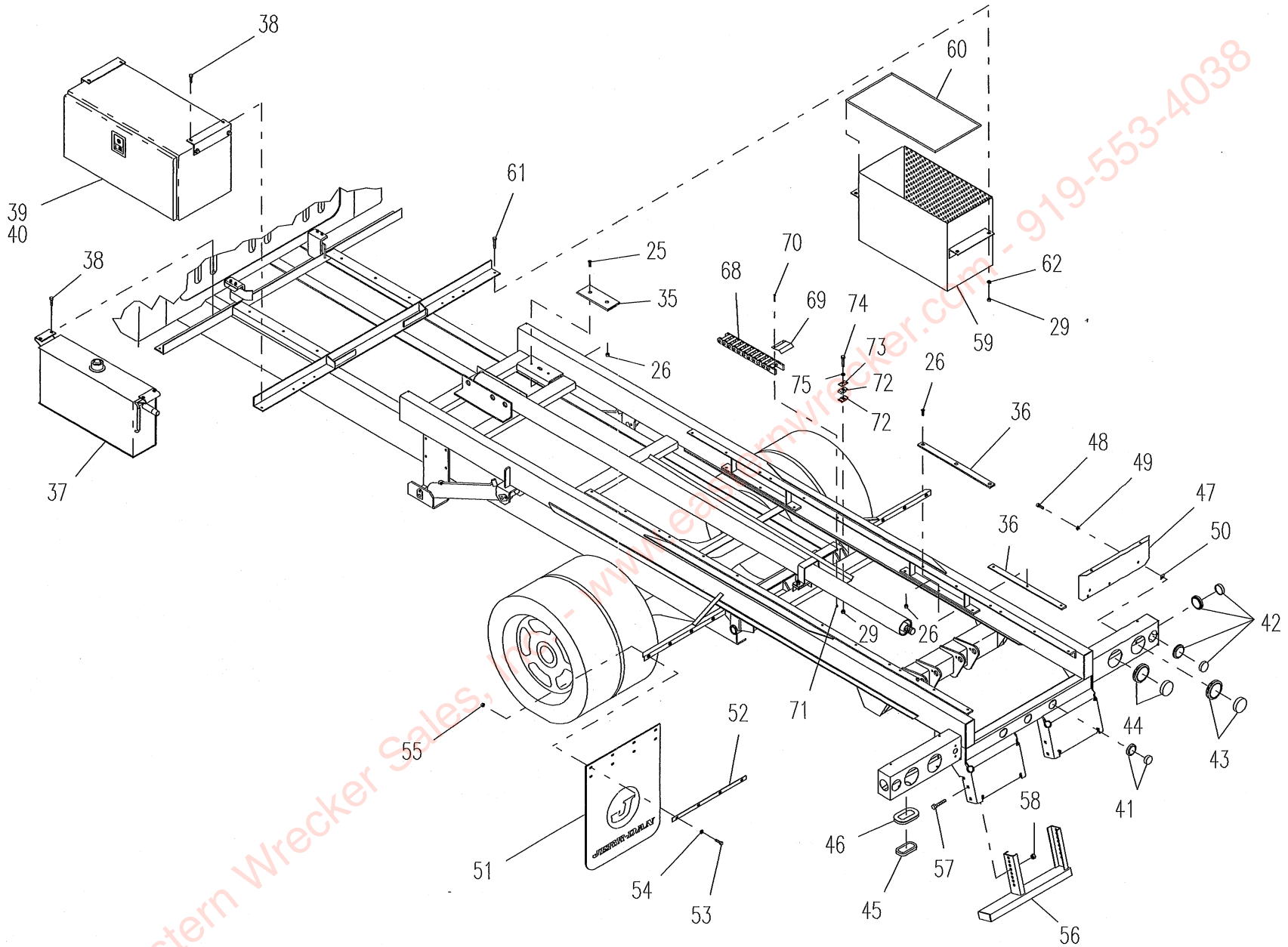
# **PARTS LIST — FINAL ASSEMBLY**

Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	3868000178	Subframe	1	51	7638000004	Mud Flap	2
2	3905000004	Trunnion	1	52	4706000233	Back Up Strip	2
3	4691000295	Pin	2	53	7111150813	Screw	8
4	7949000008	Washer	2	54	7950150000	Washer	8
5	7690164045	Spring Pin	2	55	7660150000	Nut	8
6	3320000074	Cylinder Assembly	1	56	3190000028	Bumper Tube - Short	2
7	4691000268	Pin	1		3190000030	Bumper Tube - Long	
8	7754000006	Retaining Ring	2	57	7115181064	Carriage Bolt	8
9	4679000166	Wear Pad	1	58	7660182601	Locknut	8
10	4178000308	Bracket	1	59	3899000053	Storage Basket	1
11	7115181450	Capscrew	2	60	4632000015	Moulding	1
12	7660181601	Locknut	2	61	7115150850	Capscrew	4
13	4178000305	Saddle	2	62	7950150161	Washer	4
14	3320000073	Cylinder Assy	2	63	3178000233	Light Box L.H.	1
15	4209000020	Bushing	2	64	3178000234	Light Box R.H.	1
16	3691000092	Pin	2	65	4017000825	Angle L.H.	1
17	7115160850	Capscrew	4	66	4017000826	Angle R.H.	1
18	7660162301	Flanged Locknut	4	67	4705000062	Brace	2
19	3691000166	Pin	2	68	4904000002	Cable Carrier	1
20	4209000093	Bushing	2	69	4706003038	Plate	1
21	7105181450	Capscrew	8	70	7114101618	Screw	2
22	760182333	Flanged Locknut	8	71	7660102604	Nut	2
23	3558000003	Hold Down	1	72	7274000038	Half Clamp	2
24	4679000153	Wear Pad	2	73	7274000039	Clamp Cover	1
25	7118161023	Capscrew	46	74	7115151650	Capscrew	1
26	76600162601	Locknut	46	75	7950150161	Washer	1
27	4679000167	Wear Pad	2				
28	7115151218	Capscrew	4				
29	7660152601	Locknut	5				
30	4812000059	Shim	2				
31	7274000046	Retaining Clamp	2				
32	7105201850	Capscrew	8				
33	7660202347	Locknut	8				
34	4497000358	Gusset	2				
35	4679000154	Wear Pad	2				
36	4679000145	Wear Pad	12				
37	3750000018	Oil Reservoir	1				
38	7790161253	Screw	8				
39	3899000050	Toolbox 36" with Steel Door	1				
	3899000051	Toolbox 36" with Stainless Steel Door	1				
40	4679000033	Rubber Pad	1				
41	7590000079	Red Marker Light	3				
42	7590000009	Red Marker Light	4				
43	7590000002	Stop/Turn/Tail Light	2				
44	7590000003	Back-up Light	2				
45	7590000103	License Plate Light	1				
46	7493000010	Grommet	1				
47	4314000043	Cover	2				
48	7111140513	Screw	8				
49	7949000023	Washer	8				
50	7661000019	U-Nut	8				

# FINAL ASSEMBLY



# FINAL ASSEMBLY



# PARTS LIST — DUAL CONTROLS

Ref. No.	Part No.	Description	Qty.
1	3935000065	Control Valve (A)	1
	3935000066	Control Valve (B)	
	3935000067	Control Valve (C)	
	3935000068	Control Valve (D)	
2	4263000430	Channel (A,B,C)	1
	4263000433	Channel (D)	1
3	7111161050	Cap screw	4
4	7950160151	Washer	4
5	7660162601	Locknut	4
6	4263000431	Channel (A,B,C)	1
	4263000434	Channel (D)	1
7	7790151253	Screw	12
8	3560000005	Control Hood	2
9	7330000169	Control Panel Placard - LH (A,B,C)	1
	7330000219	Control Panel Placard - LH (D)	1
10	7330000170	Control Panel Placard - RH (A,B,C)	1
	7330000220	Control Panel Placard - RH (D)	1
11	7759000004	Rivet	8
12	7590000087	Lamp	2
13	7790101276	Screw	4
14	4606000065	Lug	4
15	7111150864	Carriage Bolt	8
16	7950150000	Lock Washer	8
17	7660152601	Locknut (A)	17
	7660152601	Locknut (B)	20
	7660152601	Locknut (C)	23
	7660152601	Locknut (D)	26
18	3551000042	Handle (C,D)	2
19	3551000040	Handle (B,C,D)	2
20	3551000043	Handle (A,B,C)	2
	3551000044	Handle (D)	2
21	3551000045	Handle (D)	2
22	3551000039	Handle	2
23	3551000041	Handle	2
24	7082000005	Bushing (A)	12
	7082000005	Bushing (B)	16
	7082000005	Bushing (C)	20
	7082000005	Bushing (D)	24
25	7950220141	Washer	2
26	4691000141	Pin (A,B,C)	2
	4691000263	Pin (D)	2
27	7754000009	Retaining Ring	4
28	7551000003	Knob - Red	2
29	7551000002	Knob - Black (A)	4
	7551000002	Knob - Black (B)	6
	7551000002	Knob - Black (C)	8
	7551000002	Knob - Black (D)	10
30	3763000090	Control Rod (A)	3
	3763000090	Control Rod (B)	4
	3763000090	Control Rod (C)	5
	3763000090	Control Rod (D)	6

Rev. \_\_\_\_\_

Date \_\_\_\_\_

## PARTS LIST — DUAL CONTROLS

Ref. No.	Part No.	Description	Qty.
31	4763000210	Control Rod (A)	3
	4763000210	Control Rod (B)	4
	4763000210	Control Rod (C)	5
	4763000210	Control Rod (D)	6
32	7115150850	Capscrew (A)	9
	7115150850	Capscrew (B)	12
	7115150850	Capscrew (C)	15
	7115150850	Capscrew (D)	18
33	7949000011	Washer (A)	9
	7949000011	Washer (B)	12
	7949000011	Washer (C)	15
	7949000011	Washer (D)	18
34	4831000069	Spacer (A)	9
	4931000069	Spacer (B)	12
	4831000069	Spacer (C)	15
	4831000069	Spacer (D)	18
35	7690101200	Clevis Pin (A)	3
	7690101200	Clevis Pin (B)	4
	7690101200	Clevis Pin (C)	5
	7690101200	Clevis Pin (D)	6
36	7690000810	Cotter Pin (A)	3
	7960000810	Cotter Pin (B)	4
	7690000810	Cotter Pin (C)	5
	7690000810	Cotter Pin (D)	6
37	4632000004	Moulding	2
38	7280000007	Wire Clip	11
39	7866184240	Stud	4
40	7950180161	Washer	4
41	7660181601	Locknut	4
42	4209000021	Bushing (A)	2
	4209000021	Bushing (B)	4

A - Application with 3 Bank Valve

B - Application with 4 Bank Valve

C - Application with 5 Bank Valve

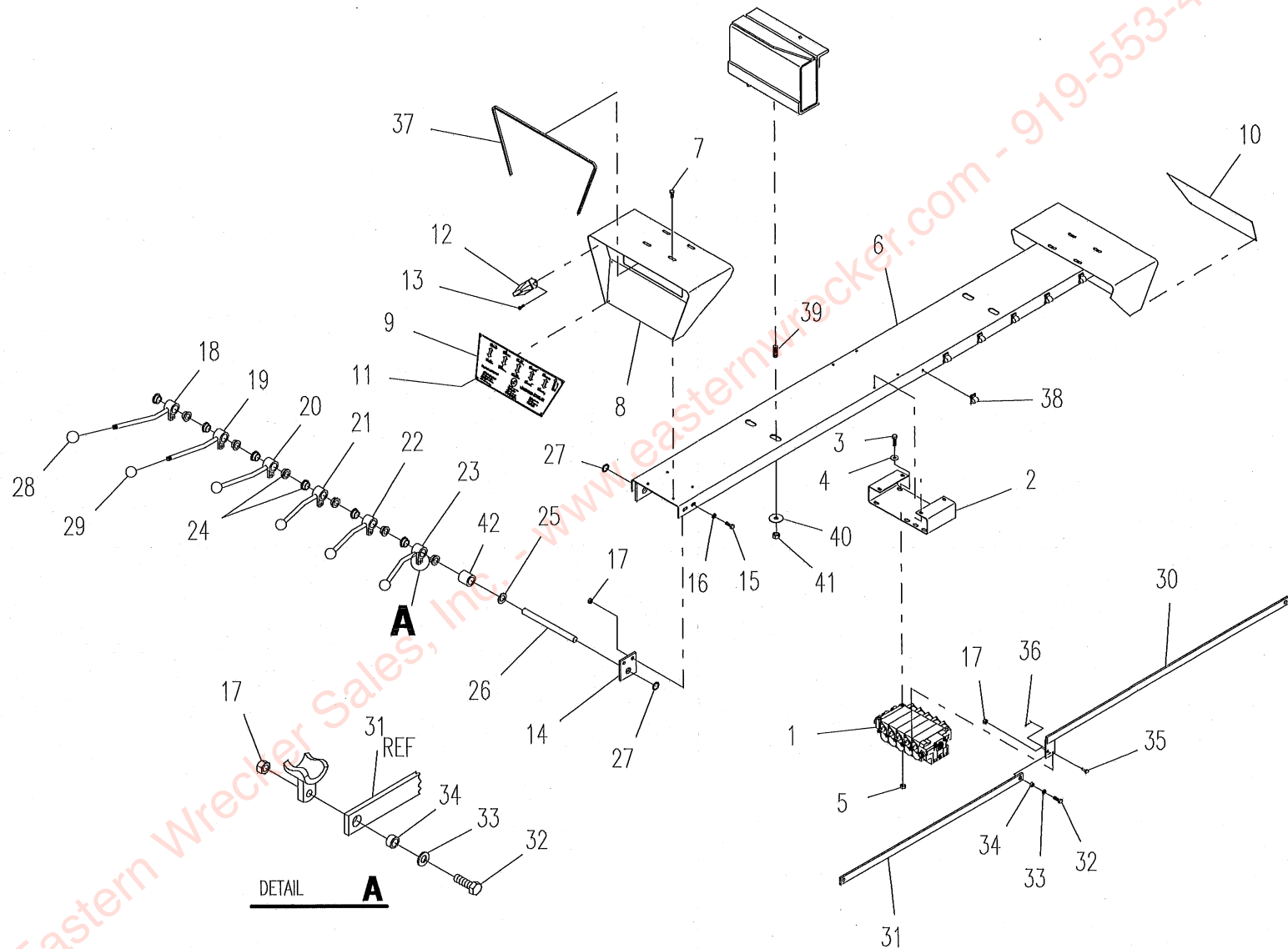
D - Application with 6 Bank Valve

Rev. \_\_\_\_\_

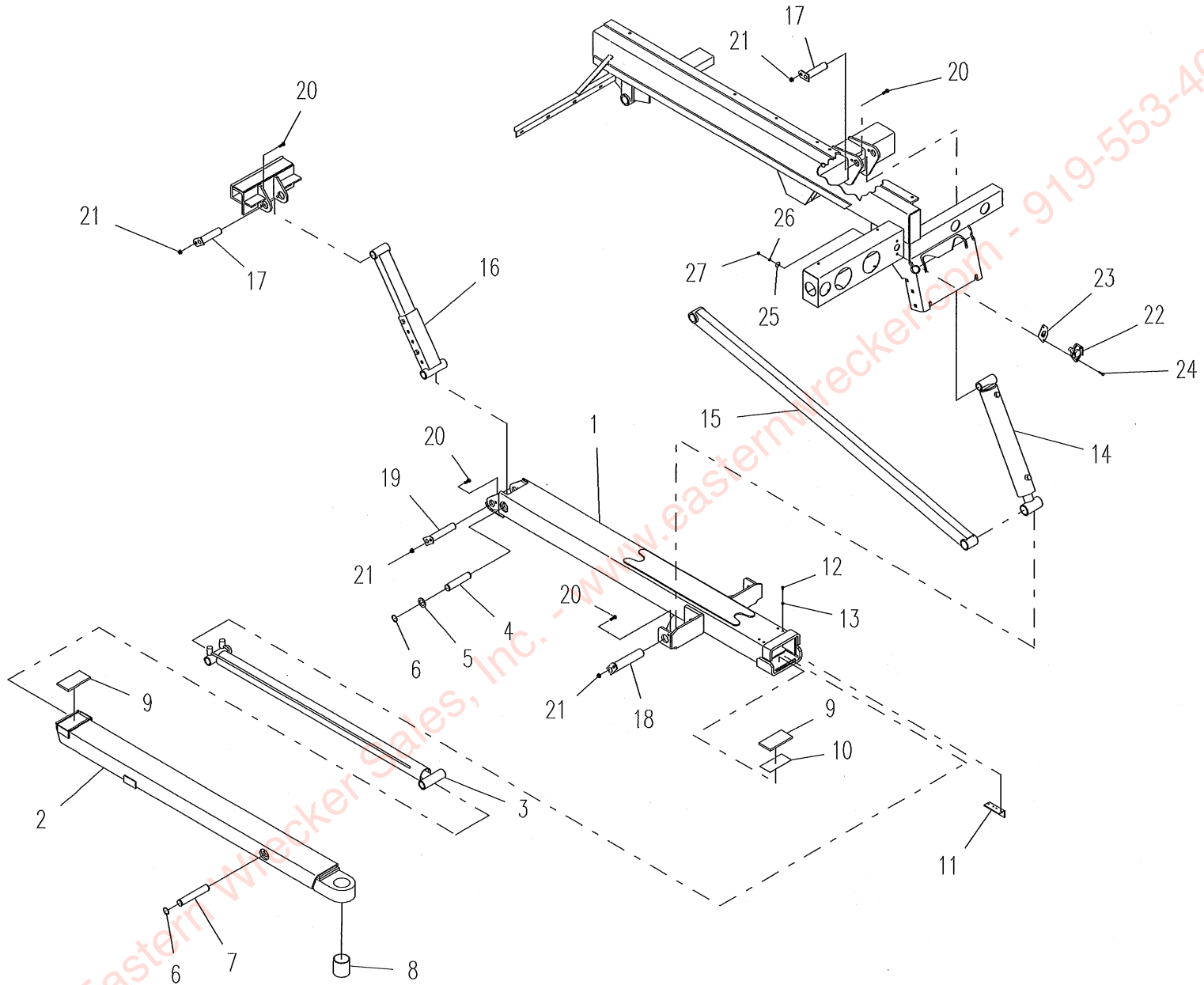
Date \_\_\_\_\_



# DUAL CONTROLS



# 3000# IRL WHEELIFT



# **PARTS LIST — 3000# IRL WHEELIFT**

Ref. No.	Part No.	Description	Qty.
1	3170000162	Outer Boom Weldment	1
2	3911000046	Inner Boom Weldment	1
3	3320000064	Cylinder Assembly	1
4	4691000268	Pin	1
5	7919000026	Washer	2
6	7754000006	Retaining Ring	4
7	4691000296	Pin	1
8	7209000030	Bushing	1
9	4679000046	Wear Pad	2
10	4706002195	Plate	1
11	4017000739	Angle	2
12	7118140418	Capscrew	4
13	7950100151	Washer	4
14	3320000069	Cylinder Assembly	2
15	3020000057	Arm Weldment	2
16	3592000027	Adjustable Link	1
17	3691000164	Pin	2
18	3691000073	Pin	3
19	3691000069	Pin	1
20	7115160850	Capscrew	6
21	7660162301	Locknut	6
22	7291000003	Receptacle	1
23	7796000048	Gasket	1
24	7111140613	Screw	2
25	7950140161	Washer	2
26	7950140000	Lockwasher	2
27	7660140000	Nut	2

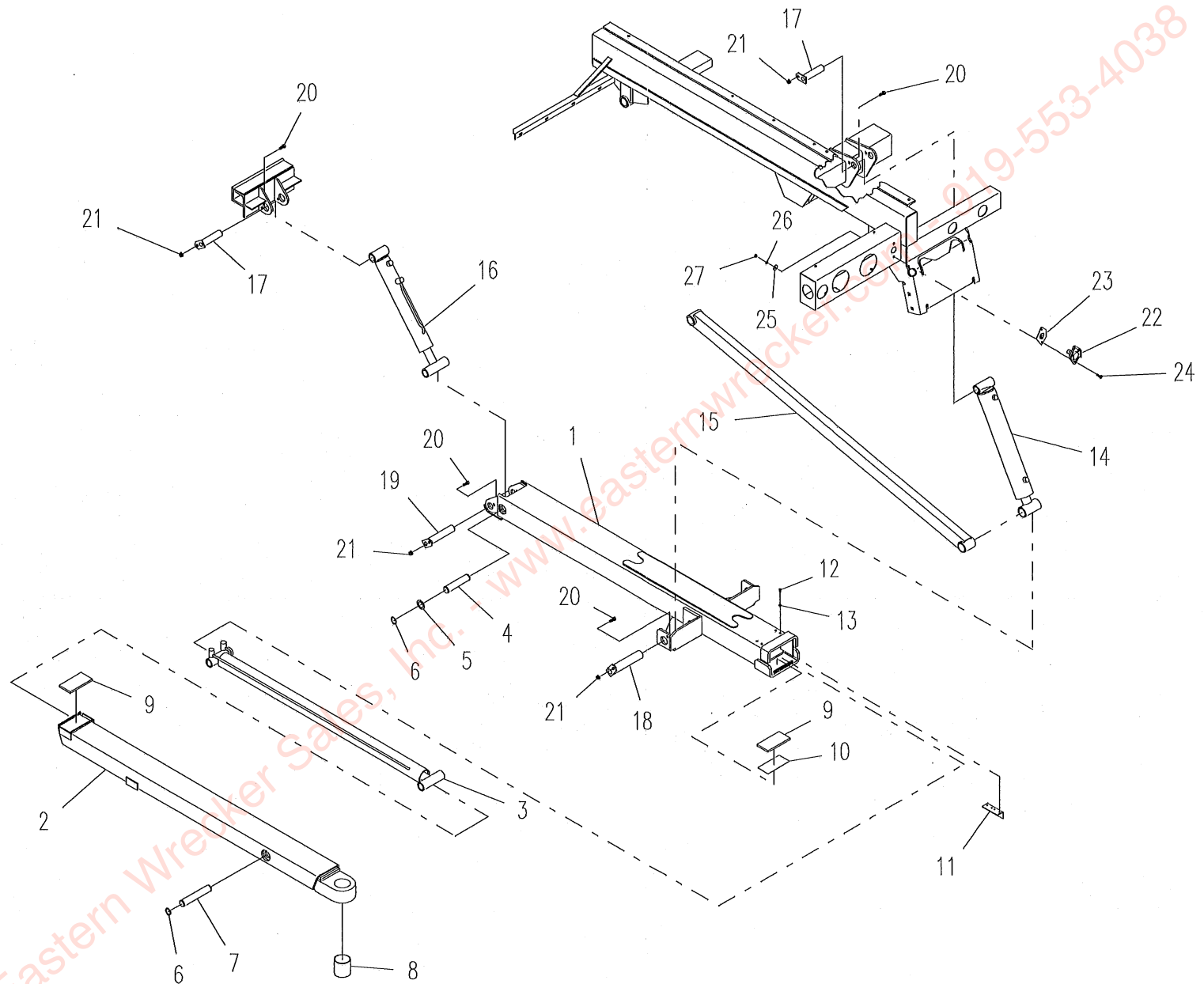
# **PARTS LIST — 3000# ZOD WHEELIFT**

Ref. No.	Part No.	Description	Qty.
1	3170000162	Outer Boom Weldment	1
2	3911000046	Inner Boom Weldment	1
3	3320000064	Cylinder Assembly	1
4	4691000268	Pin	1
5	7919000026	Washer	2
6	7754000006	Retaining Ring	4
7	4691000296	Pin	1
8	7209000030	Bushing	1
9	4679000046	Wear Pad	2
10	4706002195	Plate	1
11	4017000739	Angle	2
12	7118140418	Capscrew	4
13	7950100151	Washer	4
14	3320000069	Cylinder Assembly	2
15	3020000057	Arm Weldment	2
16	3320000070	Cylinder Assembly	1
17	3691000164	Pin	2
18	3691000073	Pin	3
19	3691000069	Pin	1
20	7115160850	Capscrew	6
21	7660162301	Locknut	6
22	7291000003	Receptacle	1
23	7796000048	Gasket	1
24	7111140613	Screw	2
25	7950140161	Washer	2
26	7950140000	Lockwasher	2
27	7660140000	Nut	2

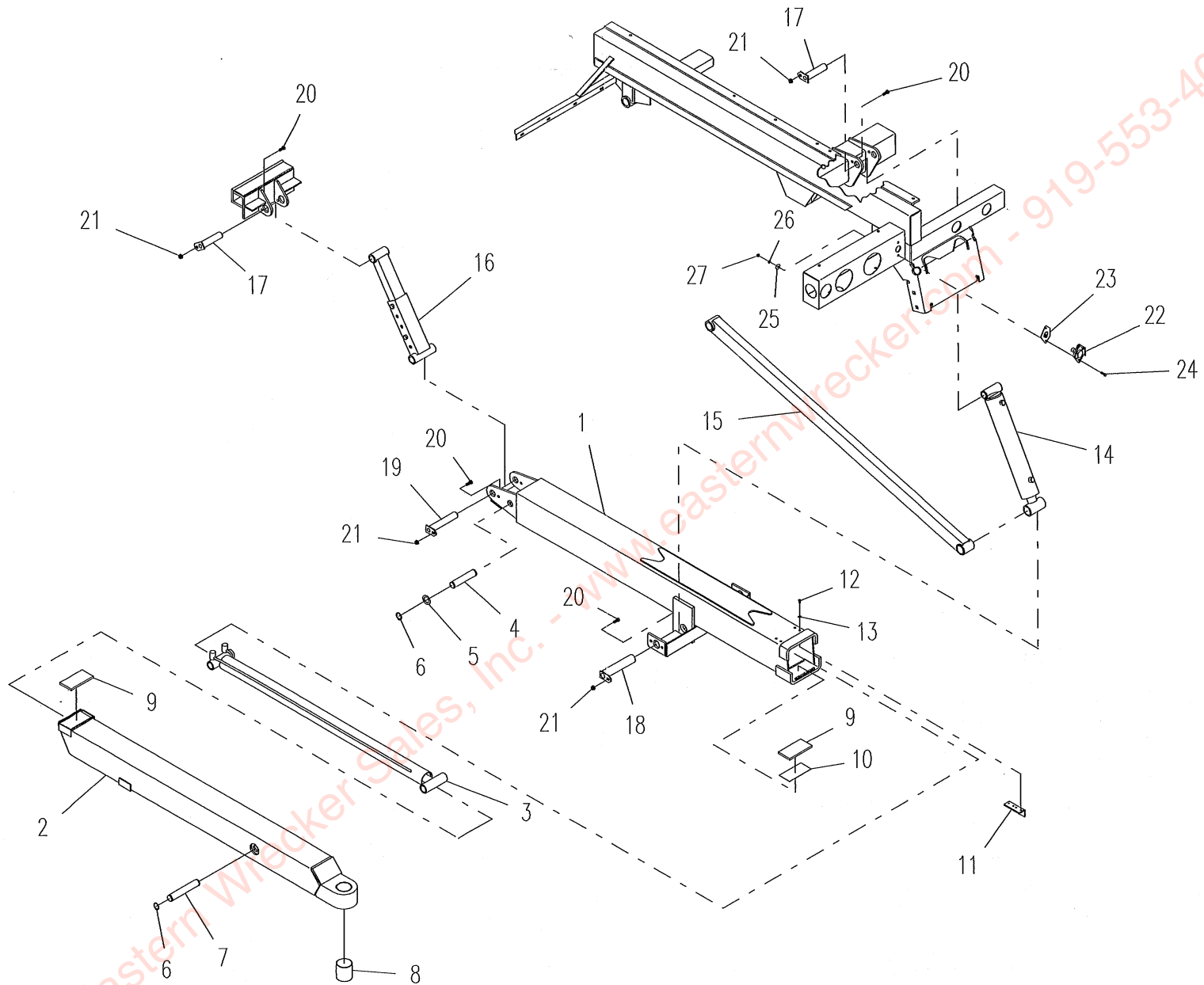
Rev. \_\_\_\_\_

Date \_\_\_\_\_

# 3000# ZOD WHEELIFT



# 4000# IRL WHEELIFT



# **PARTS LIST — 4000# IRL WHEELIFT**

Ref. No.	Part No.	Description	Qty.
1	3170000163	Outer Boom Weldment	1
2	3170000164	Inner Boom Weldment	1
3	3320000064	Cylinder Assembly	1
4	4691000268	Pin	1
5	7919000026	Washer	2
6	7754000006	Retaining Ring	4
7	4691000296	Pin	1
8	7209000028	Bushing	1
9	4679000046	Wear Pad	2
10	4706002195	Plate	1
11	4017000739	Angle	2
12	7118140418	Capscrew	4
13	7950100151	Washer	4
14	3320000071	Cylinder Assembly	2
15	3020000058	Arm Weldment	2
16	3592000029	Adjustable Link	1
17	3691000164	Pin	2
18	3691000073	Pin	3
19	3691000069	Pin	1
20	7115160850	Capscrew	6
21	7660162301	Locknut	6
22	7291000003	Receptacle	1
23	7796000048	Gasket	1
24	7111140613	Screw	2
25	7950140161	Washer	2
26	7950140000	Lockwasher	2
27	7660140000	Nut	2

## PARTS LIST — 3000# WHEELIFT GRID ASSEMBLY

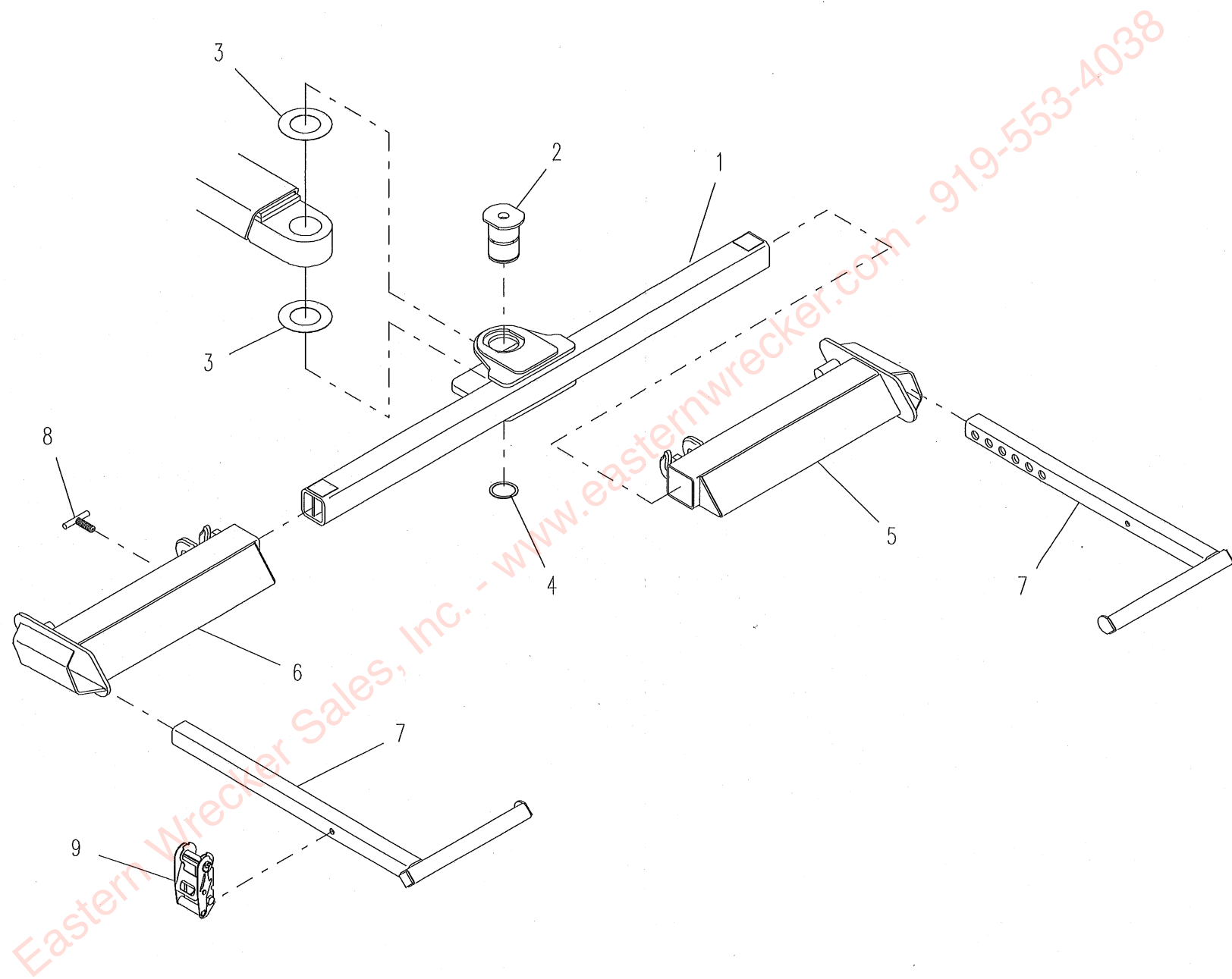
Ref. No.	Part No.	Description	Qty.
1	3913000057	Pivot Tube (A)	1
	3913000056	Pivot Tube (B)	
2	4691000278	Pin	1
3	4949000047	Washer	2
4	7754000024	Retaining Ring	1
5	3484000034	Grid Weldment - RH	1
6	3484000035	Grid Weldment - LH	1
7	3020000072	L-Arm	2
8	3551000036	T-Handle	2
9	7894000034	Ratchet and Strap	2

A - IRL Wheelift

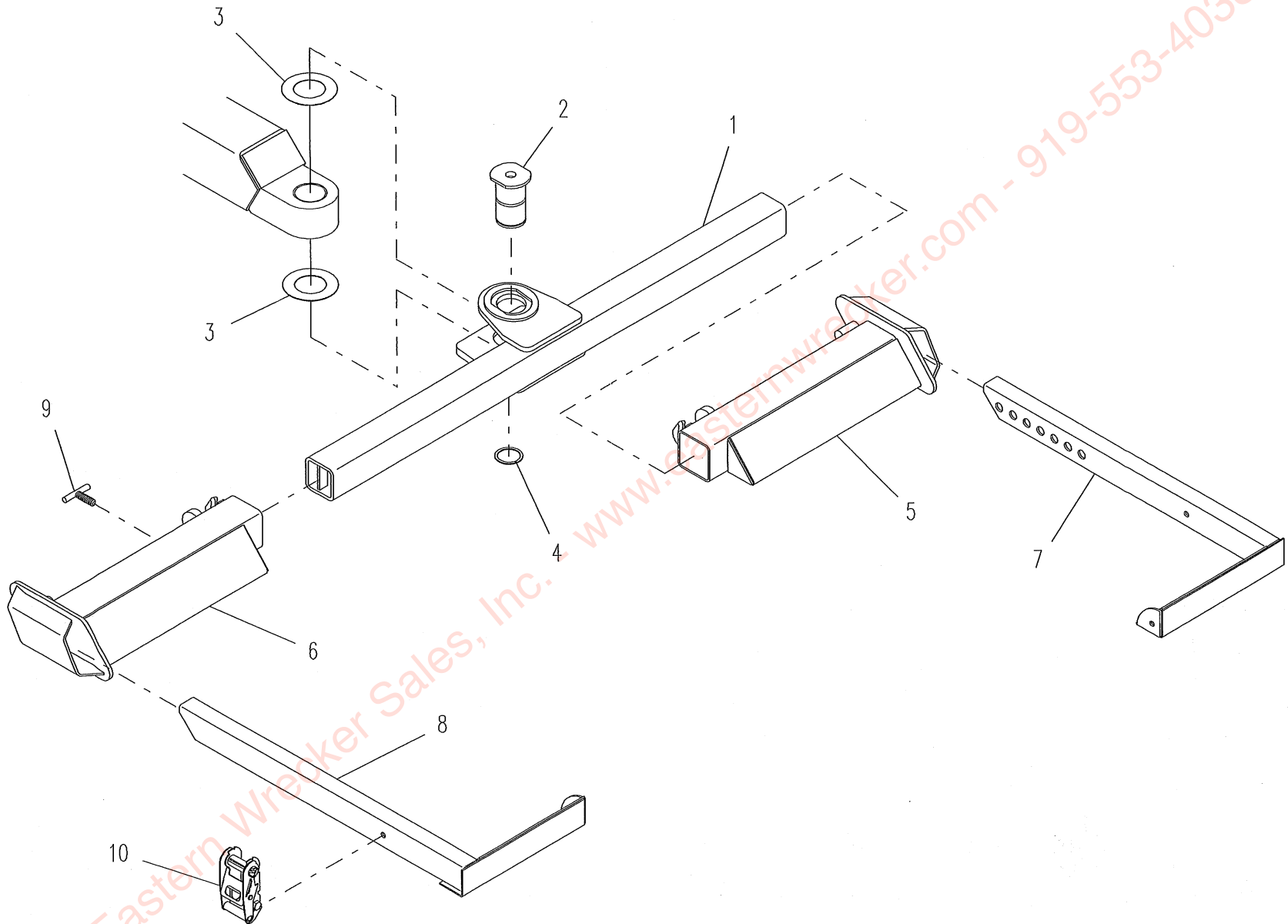
B - ZOD Wheelift



# 3000# WHEELIFT GRID ASSEMBLY



# 4000# WHEELIFT GRID ASSEMBLY



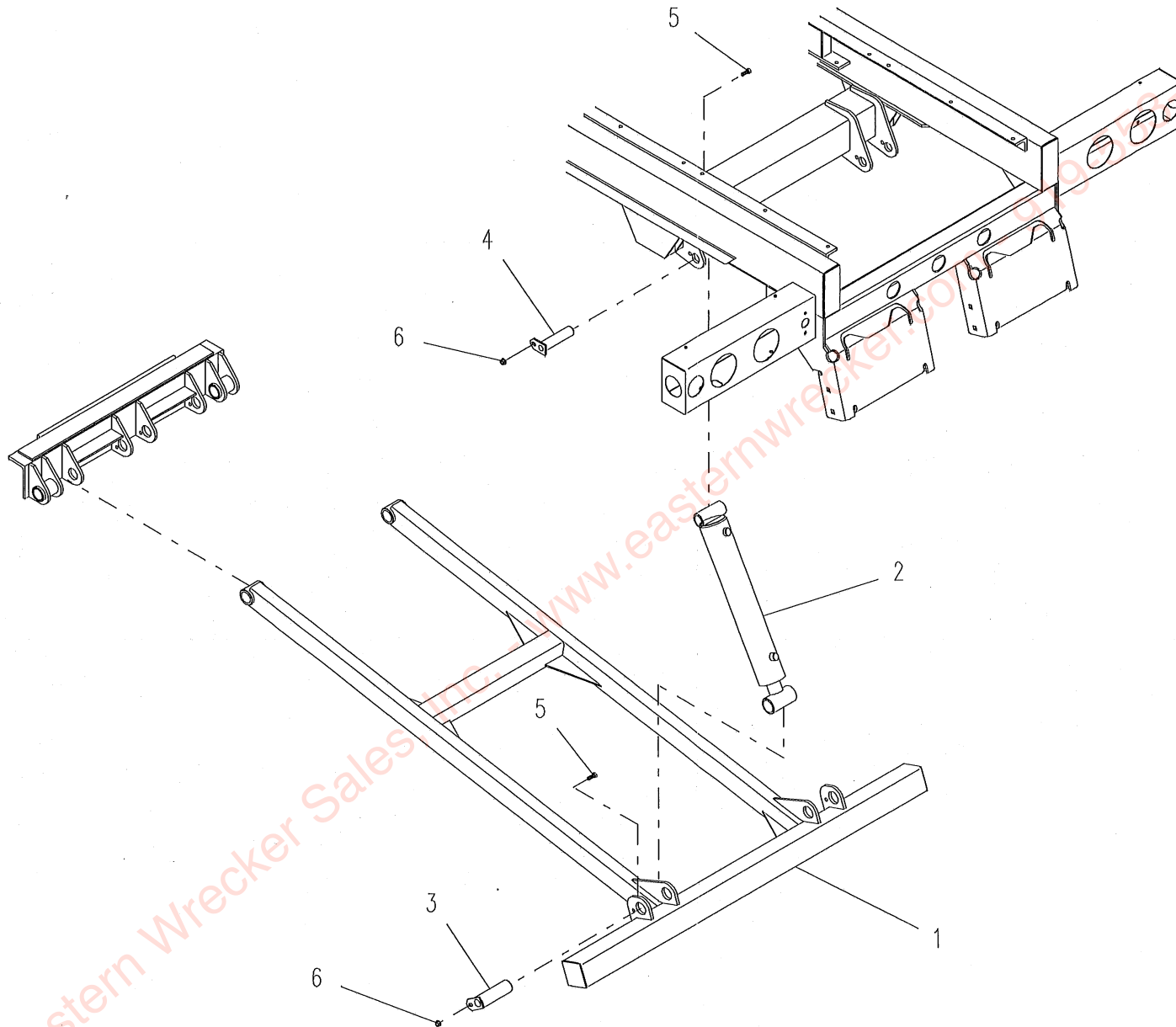
# **PARTS LIST — 4000# WHEELIFT GRID ASSEMBLY**

Ref. No.	Part No.	Description	Qty.
1	3913000061	Pivot Tube	1
2	4691000103	Pin	1
3	4949000047	Washer	2
4	7754000024	Retaining Ring	1
5	3484000030	Grid Weldment - RH	1
6	3484000031	Grid Weldment - LH	1
7	3020000038	L-Arm - RH	1
8	3020000037	L-Arm - LH	1
9	3551000036	T-Handle	2
10	7894000034	Ratchet and Strap	2

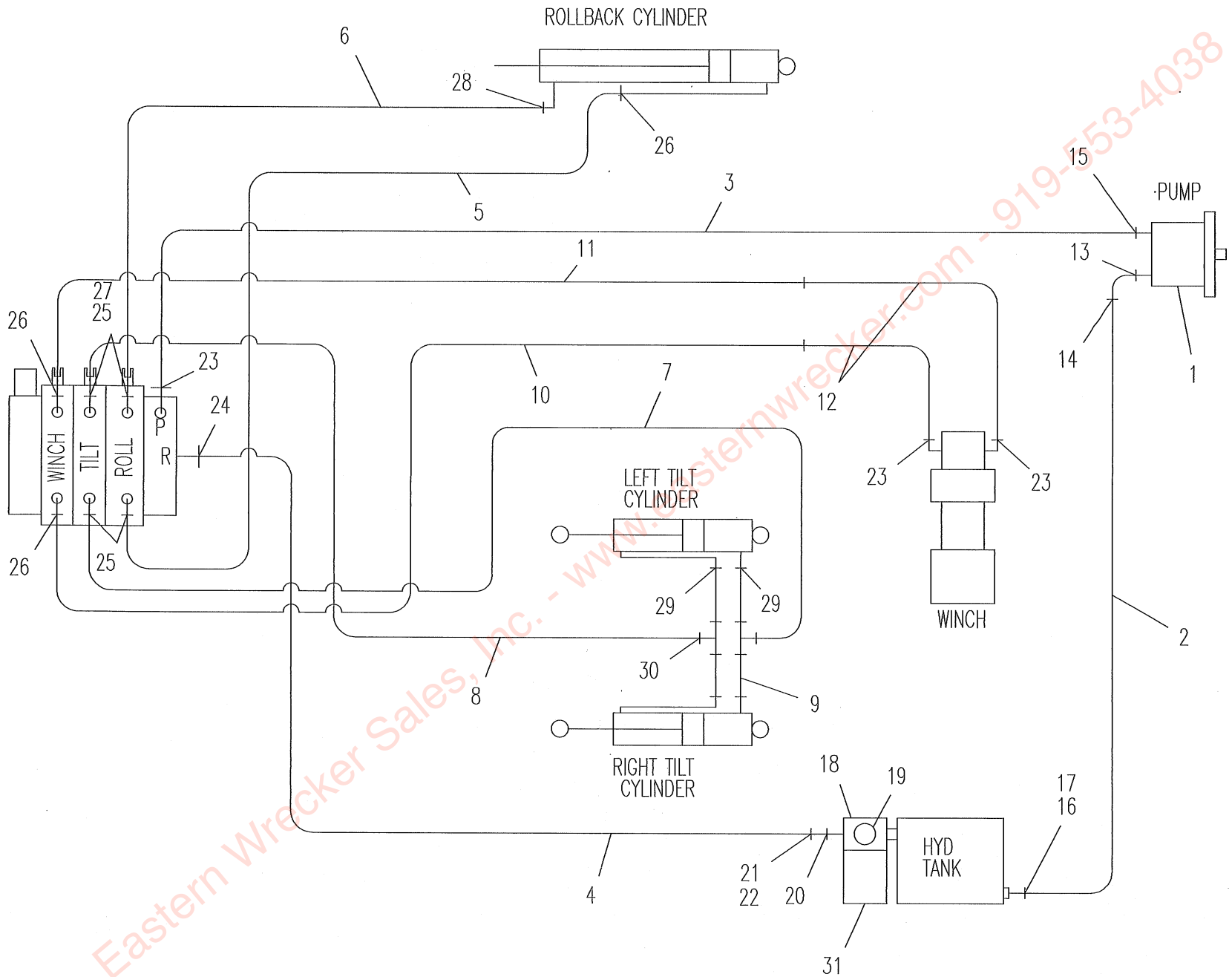
## PARTS LIST — HYDRAULIC REAR DOCK STABILIZER

Ref. No.	Part No.	Description	Qty.
1	3849000010	Stabilizer Arm	1
2	3320000069	Cylinder Assembly	2
3	3691000165	Pin	2
4	3691000073	Pin	2
5	7115160850	Capscrew	4
6	7660162301	Locknut	4

# HYDRAULIC REAR DOCK STABILIZER



# HYDRAULIC COMPONENTS



## PARTS LIST — HYDRAULIC COMPONENTS

Ref. No.	Part No.	Description	Qty.
1	7724000021	Pump	1
2	4570000112	Hose	1
3	4567130226	Hose Assembly (A)	1
	4567130238	Hose Assembly (B)	
	4567130244	Hose Assembly (C)	
	4567130248	Hose Assembly (D)	
	4567130256	Hose Assembly (E)	
4	4570000101	Hose (A)	1
	4570000102	Hose (B)	
	4570000113	Hose (C)	
	4570000114	Hose (D)	
	4570000115	Hose (E)	
5	4567123047	Hose Assembly	1
6	4567122047	Hose Assembly	1
7	4567123104	Hose Assembly	1
8	4567122100	Hose Assembly	1
9	4567120020	Hose Assembly	4
10	4569433122	Hose Assembly	1
11	4569432122	Hose Assembly	1
12	4567430129	Hose Assembly (A,B)	2
	4567430153	Hose Assembly (C,D,E)	
13	7445081643	Adapter	1
14	7443000023	Elbow	1
15	7443000101	Adapter	1
16	7443000013	Nipple	1
17	7274000002	Clamp	1
18	7430000003	Filter Head and Element	1
19	7470000002	Gauge	1
20	7445161250	Reducer	1
21	7443000169	Adapter	1
22	7274000047	Clamp	1
23	7445081045	Elbow	3
24	7443000168	Adapter	1
25	7445060843	Adapter	4
26	7445080843	Adapter	3
27	7443000196	Restrictor	2
28	7445080845	Elbow	1
29	7445060645	Elbow	4
30	7445060637	Tee	2
31	7431000001	Filter Element	1

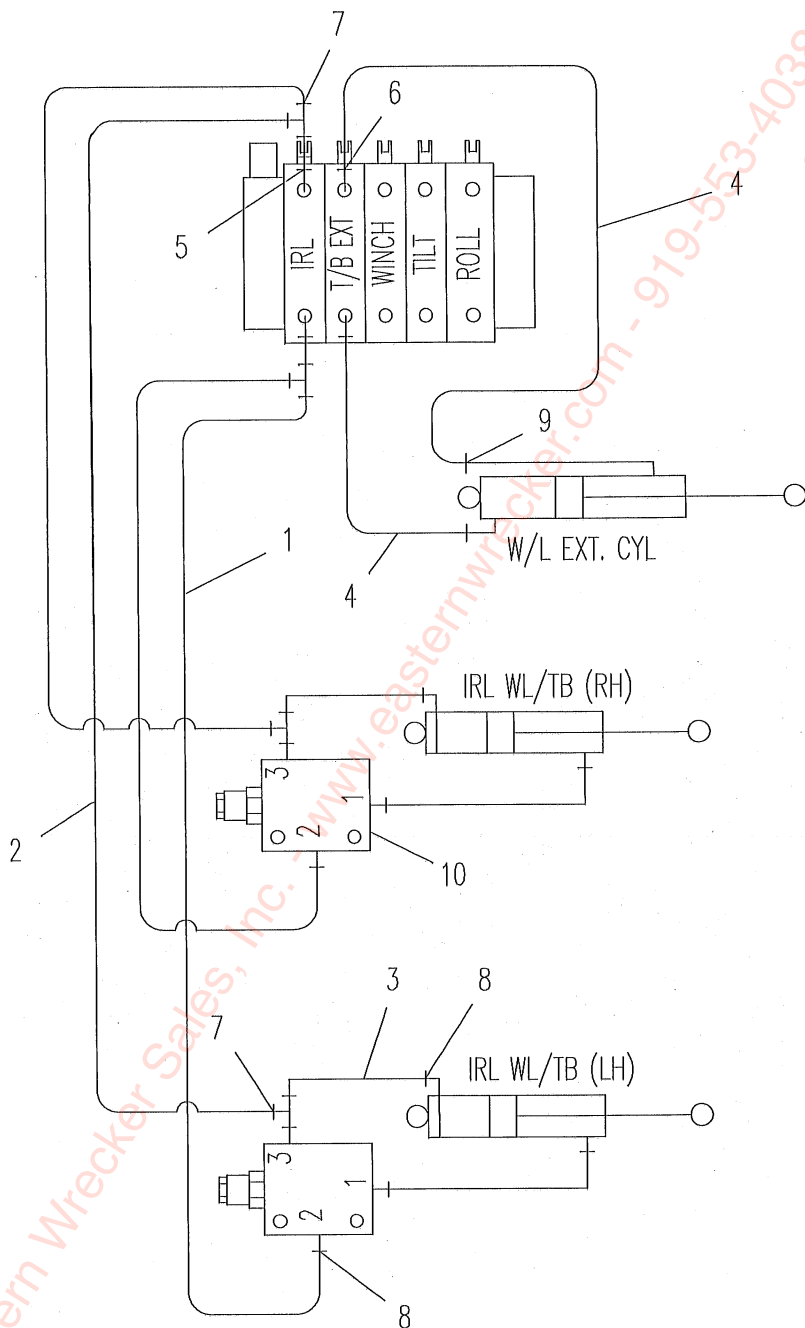
A - 22' Deck, 138" CA Chassis  
 B - 22' Deck, 150" CA Chassis  
 C - 24' Deck, 156" CA Chassis  
 D - 24' Deck, 160" CA Chassis  
 E - 24' Deck, 168" CA Chassis

## PARTS LIST — HYDRAULIC COMPONENTS - IRL WHEELIFT

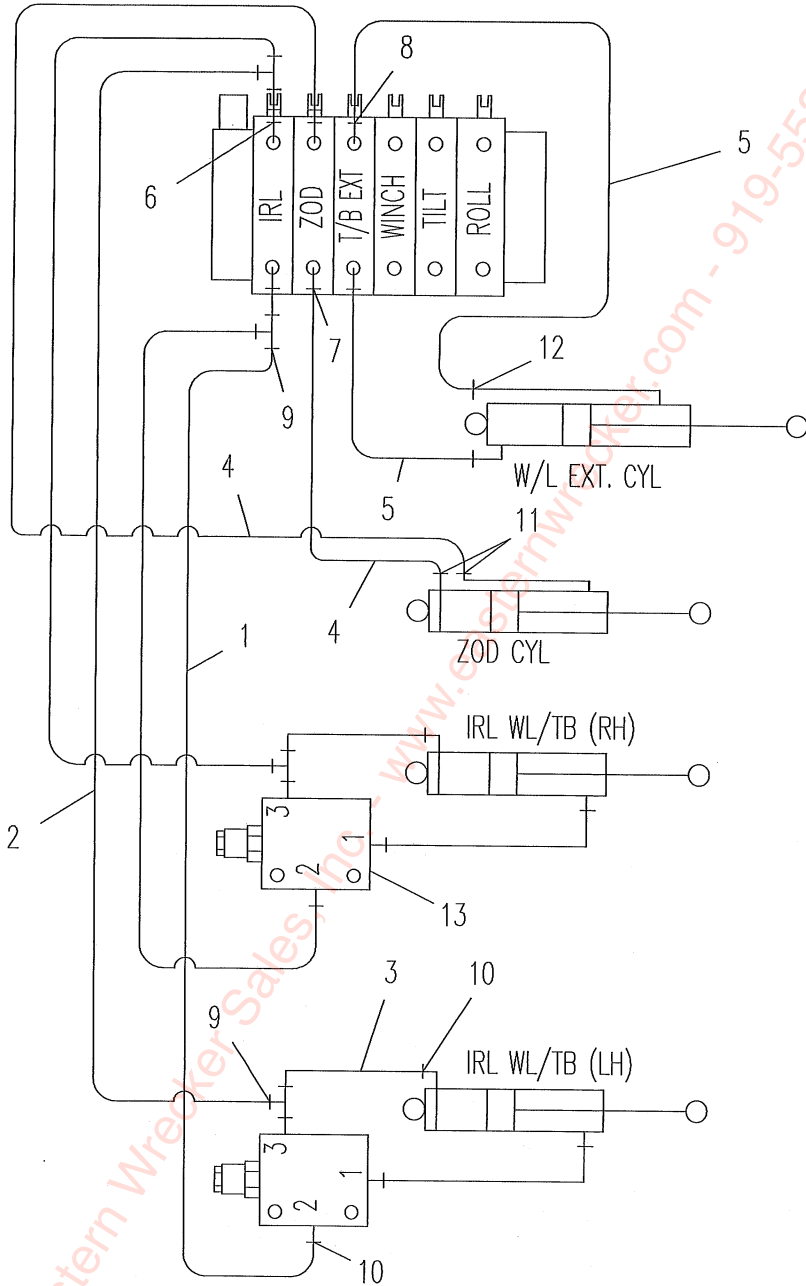
Ref. No.	Part No.	Description	Qty.
1	4567122043	Hose Assembly	2
2	4567123045	Hose Assembly	2
3	4567122013	Hose Assembly	2
4	4567110019	Hose Assembly	2
5	7443000129	Reducer	2
6	7443040643	Adapter	2
7	7445060648	Tee	4
8	7445060645	Elbow	4
9	7445040446	Elbow	2
10	7935000183	Counter Balance Valve	2



# HYDRAULIC COMPONENTS - IRL WHEELIFT



# HYDRAULIC COMPONENTS - ZOD WHEELIFT



## PARTS LIST — HYDRAULIC COMPONENTS - ZOD WHEELIFT

Ref. No.	Part No.	Description	Qty.
1	4567122043	Hose Assembly	2
2	4567123045	Hose Assembly	2
3	4567122013	Hose Assembly	2
4	4567122030	Hose Assembly	2
5	4567110034	Hose Assembly	2
6	7443000129	Reducer	2
7	7445060843	Adapter	2
8	7443040643	Adapter	2
9	7445060648	Tee	4
10	7445060645	Elbow	2
11	7445060643	Adapter	2
12	7445040446	Elbow	2
13	7935000183	Counter Balance Valve	2

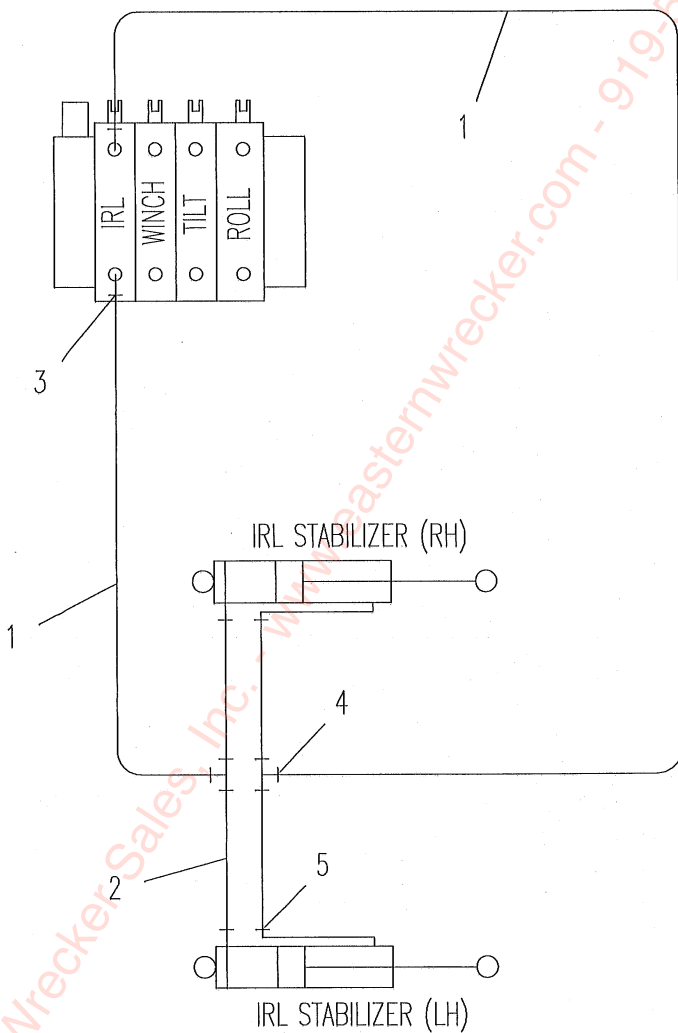
## PARTS LIST — HYDRAULIC COMPONENTS - STABILIZER

Ref. No.	Part No.	Description	Qty.
1	4567122035	Hose Assembly	2
2	4567120019	Hose Assembly	4
3	7445060843	Adapter	2
4	7445060637	Tee	2
5	7445060645	Elbow	2

Rev. \_\_\_\_\_

Date \_\_\_\_\_

# HYDRAULIC COMPONENTS - STABILIZER



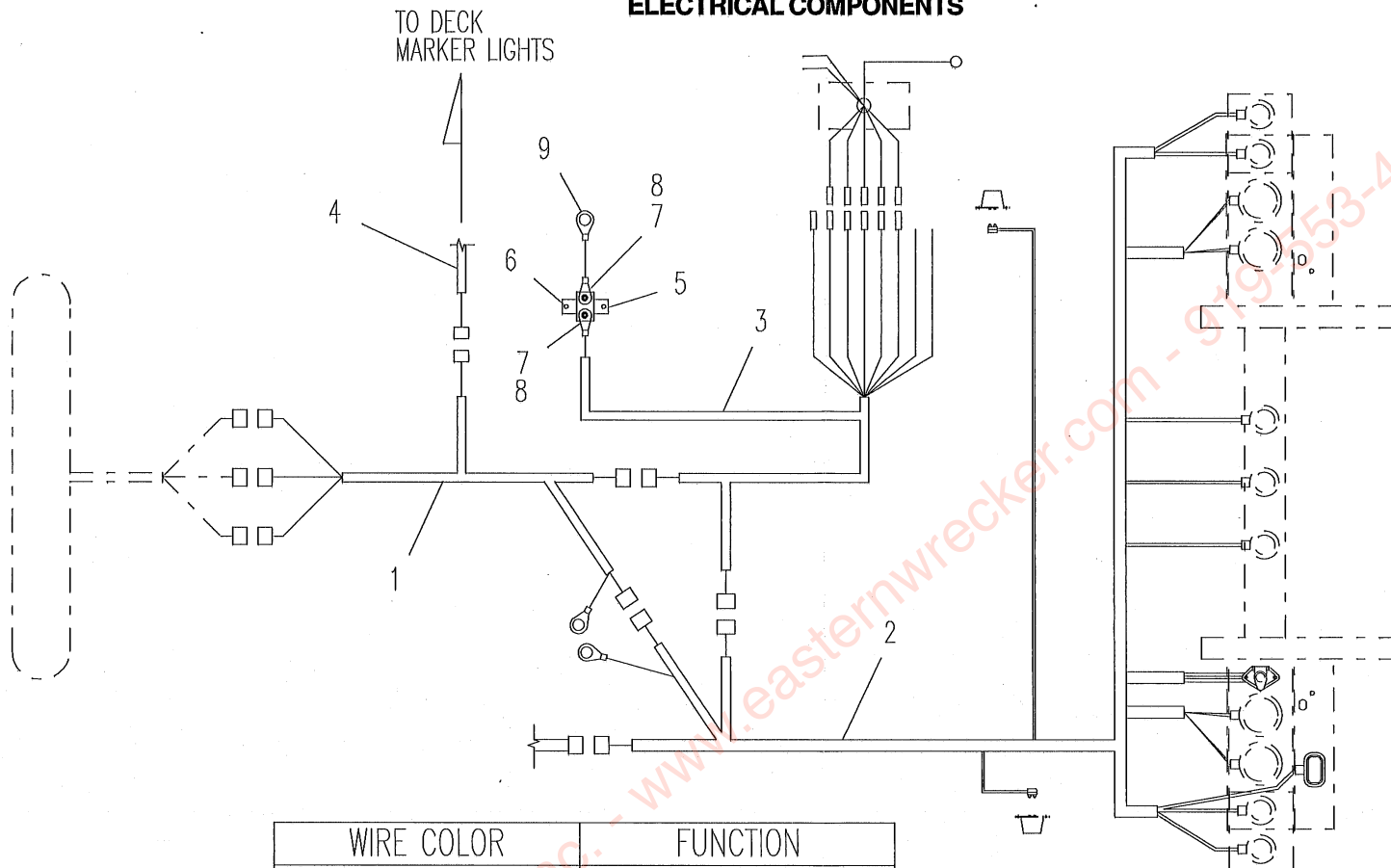
## PARTS LIST — ELECTRICAL COMPONENTS

Ref. No.	Part No.	Description	Qty.
1	7552000098	Wiring Harness - Subframe/Deck	1
2	7552000135	Wiring Harness - Subframe	1
3	7552000065	Wiring Harness - Subframe/Cab	1
4	7552000179	Wiring Harness - Deck	1
5	7457000004	Breaker	1
6	7790100856	Screw	2
7	7345221902	Terminal	2
8	7950100151	Washer	2
9	7345241902	Terminal	1

Rev. \_\_\_\_\_

Date \_\_\_\_\_

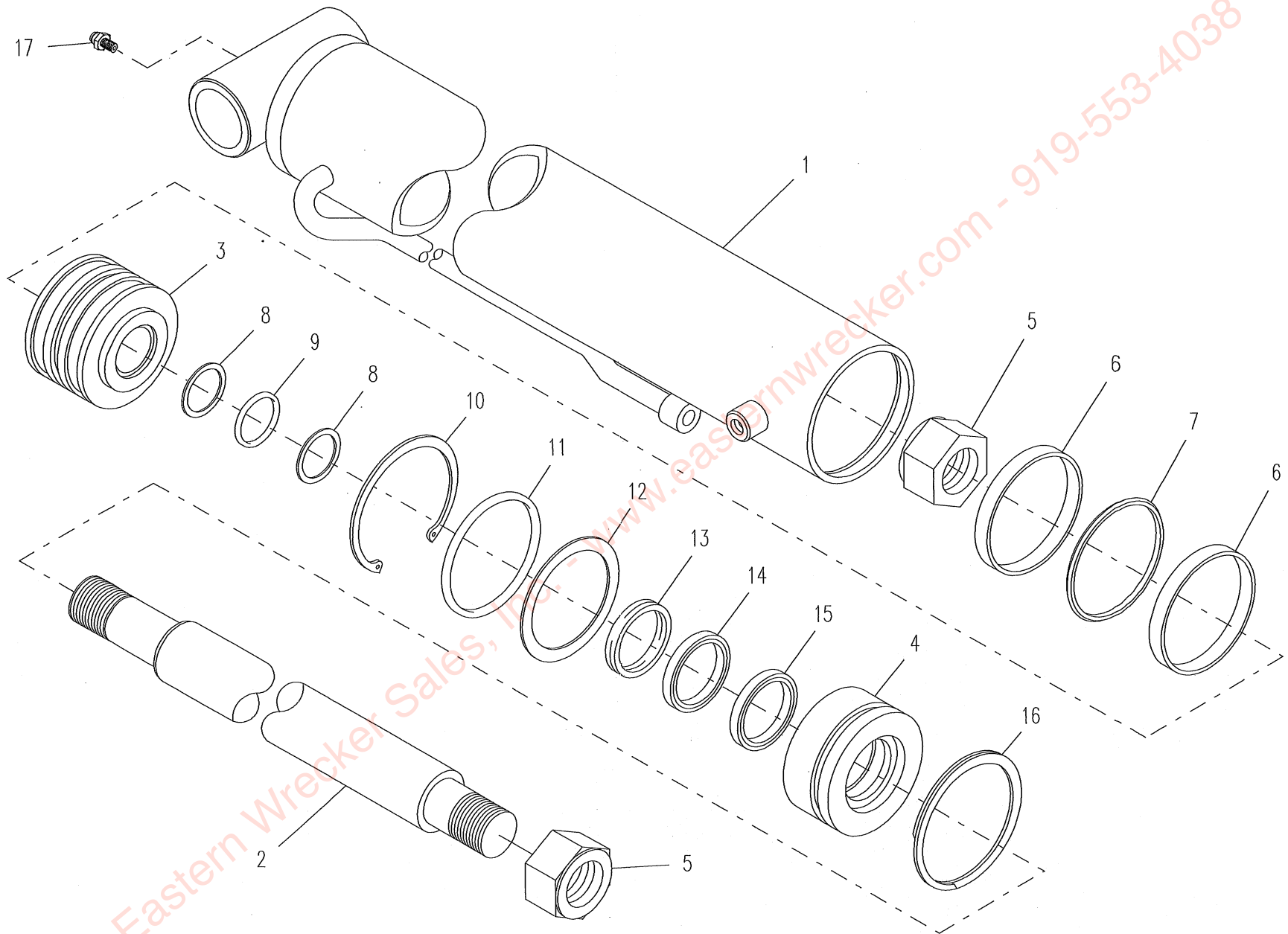
# ELECTRICAL COMPONENTS



WIRE COLOR	FUNCTION
WHITE	GROUND
BROWN	CLEARANCE
GREEN	RH STOP/TURN
YELLOW	LH STOP/TURN
BLACK	BACK-UP
BLUE	AUX
PURPLE	FLOOD
GRAY	BEACON (ROTATOR)
ORANGE	AUX1 (FLASHER)
LT BLUE/BLACK	OPTIONAL
LT BLUE	AUX2
RED	AUX POWER

# ROLLBACK CYLINDER

3320000074





## PARTS LIST — ROLLBACK CYLINDER

3320000074

Ref. No.	Part No.	Description	Qty.
1	3071000068	Barrel Weldment	1
2	4763000093	Rod	1
3	4698000009	Piston	1
4	4553000010	Head	1
5	7660342031	Locknut	2
6	7796000013*	Wear Ring	2
7	7796000064*	Locking "T" Seal	1
8	7755226609*	Back-up Ring	2
9	7755226000*	"O" Ring	1
10	7754000016*	Retaining Ring	1
11	7755338000*	"O" Ring	1
12	7755338609*	Back-up Ring	1
13	7754000012*	Wear Ring	1
14	7796000025*	Rod Seal	1
15	7796000011*	Rod Wiper Seal	1
16	7754000027*	Retaining Ring	1
17	7440030000	Grease Fitting	1

\*Available only in Service Kit #7577250025

## PARTS LIST — TILT CYLINDER

3320000073

Ref. No.	Part No.	Description	Qty.
1	3071000069	Barrel Weldment	1
2	3763000032	Rod Weldment	1
3	4698000007	Piston	1
4	4553000008	Head	1
5	7660262031	Locknut	1
6	7754000003*	Wear Ring	2
7	7796000063*	Locking "T" Seal	1
8	7755224609*	Back-up Ring	2
9	7755224000*	"O" Ring	1
10	7754000002*	Retaining Ring	1
11	7755334000*	"O" Ring	1
12	7755334609*	Back-up Ring	1
13	7754000004*	Wear Ring	1
14	7796000024*	Rod Seal	1
15	7796000008*	Rod Wiper Seal	1
16	7754000026*	Retaining Ring	1
17	7440030000	Grease Fitting	2

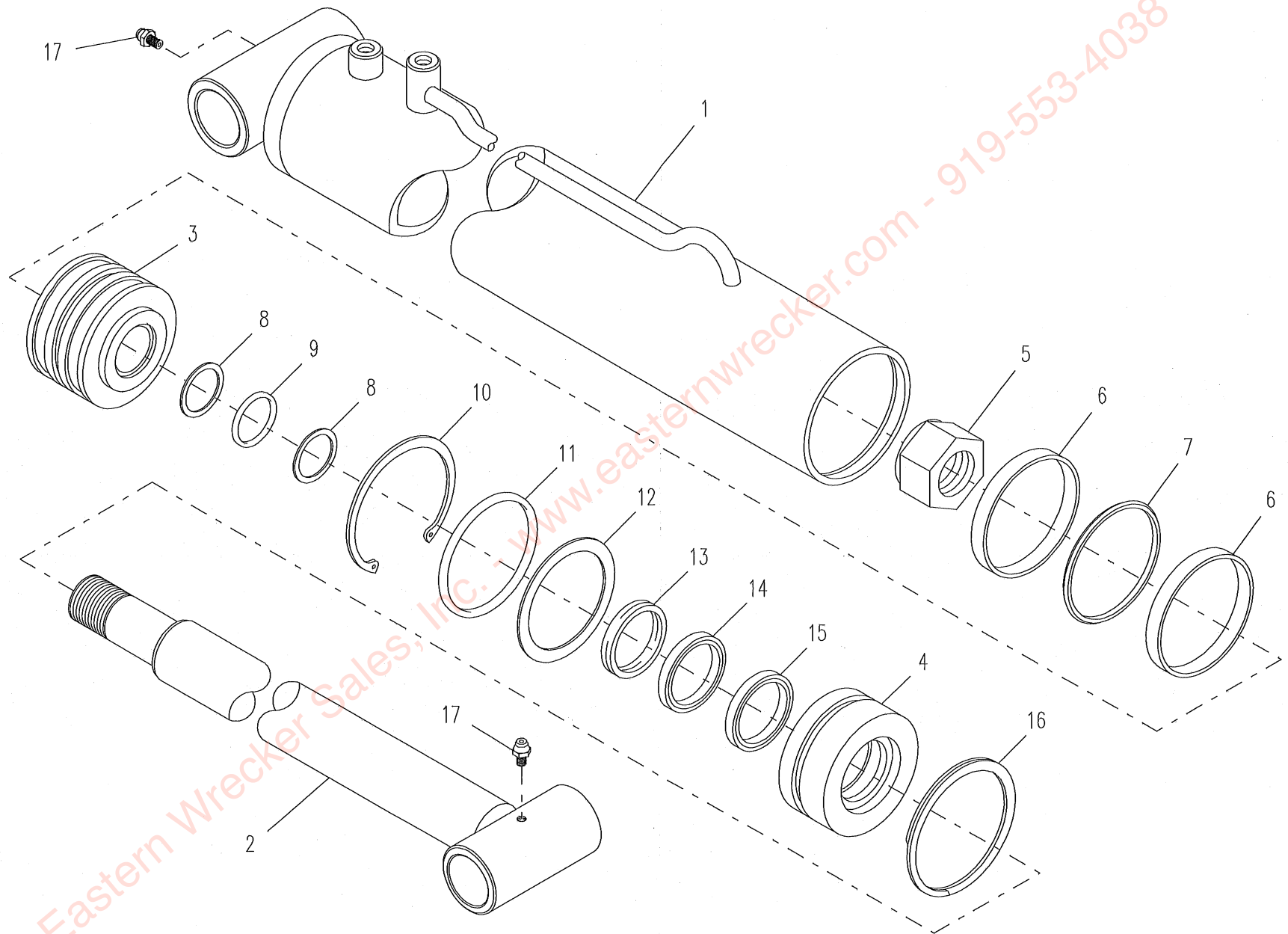
\*Available only in Service Kit #7577250042

Rev. \_\_\_\_\_

Date \_\_\_\_\_

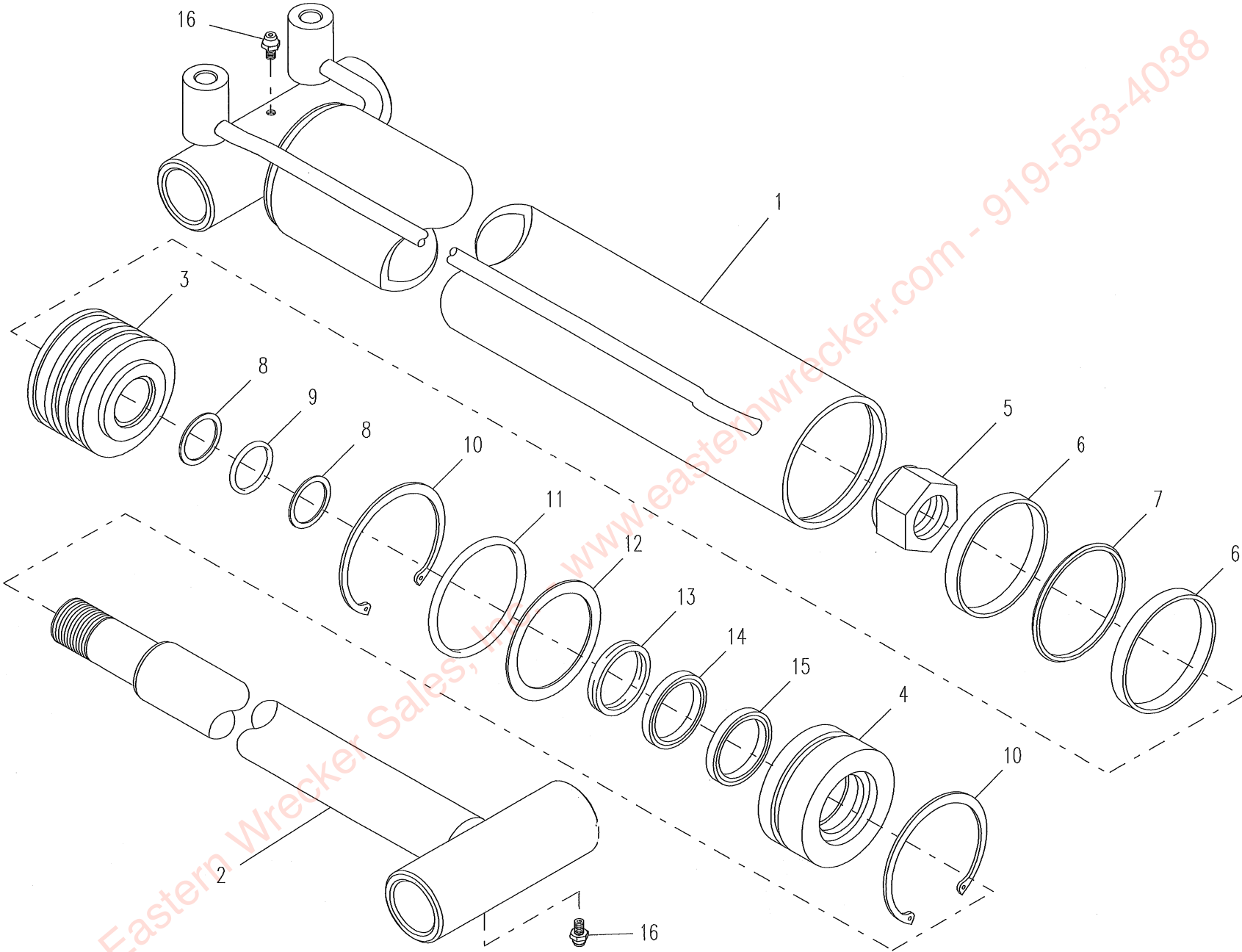
# TILT CYLINDER

3320000073



WHEELIFT EXTEND CYLINDER

3320000064



# PARTS LIST — WHEELIFT EXTEND CYLINDER

3320000064

Ref. No.	Part No.	Description	Qty.
1	3071000060	Barrel Weldment	1
2	3763000074	Rod Weldment	1
3	4698000015	Piston	1
4	4553000016	Head	1
5	7660262031	Locknut	1
6	7754000053*	Wear Ring	2
7	7796000067*	Locking "T" Seal	1
8	7755222609*	Back-up Ring	2
9	7755222000*	"O" Ring	1
10	7754000051*	Retaining Ring	2
11	7755330000*	"O" Ring	1
12	7755330609*	Back-up Ring	1
13	7754000054*	Wear Ring	1
14	7796000045*	Rod Seal	1
15	7796000046*	Rod Wiper Seal	1
16	7440030000	Grease Fitting	2

\*Available only in Service Kit #7577250206

## PARTS LIST — IRL CYLINDER 3000# WHEELIFT

3320000069

Ref. No.	Part No.	Description	Qty.
1	3071000065	Barrel Weldment	1
2	3763000086	Rod Weldment	1
3	4698000007	Piston	1
4	4553000008	Head	1
5	7660262031	Locknut	1
6	7754000003*	Wear Ring	2
7	7796000063*	Locking "T" Seal	1
8	7755224609*	Back-up Ring	2
9	7755224000*	"O" Ring	1
10	7754000002*	Retaining Ring	1
11	7755334000*	"O" Ring	1
12	7755334609*	Back-up Ring	1
13	7754000004*	Wear Ring	1
14	7796000024*	Rod Seal	1
15	7796000008*	Rod Wiper Seal	1
16	7754000026*	Retaining Ring	1
17	7440030000	Grease Fitting	1
18	7440030200	Grease Fitting	1

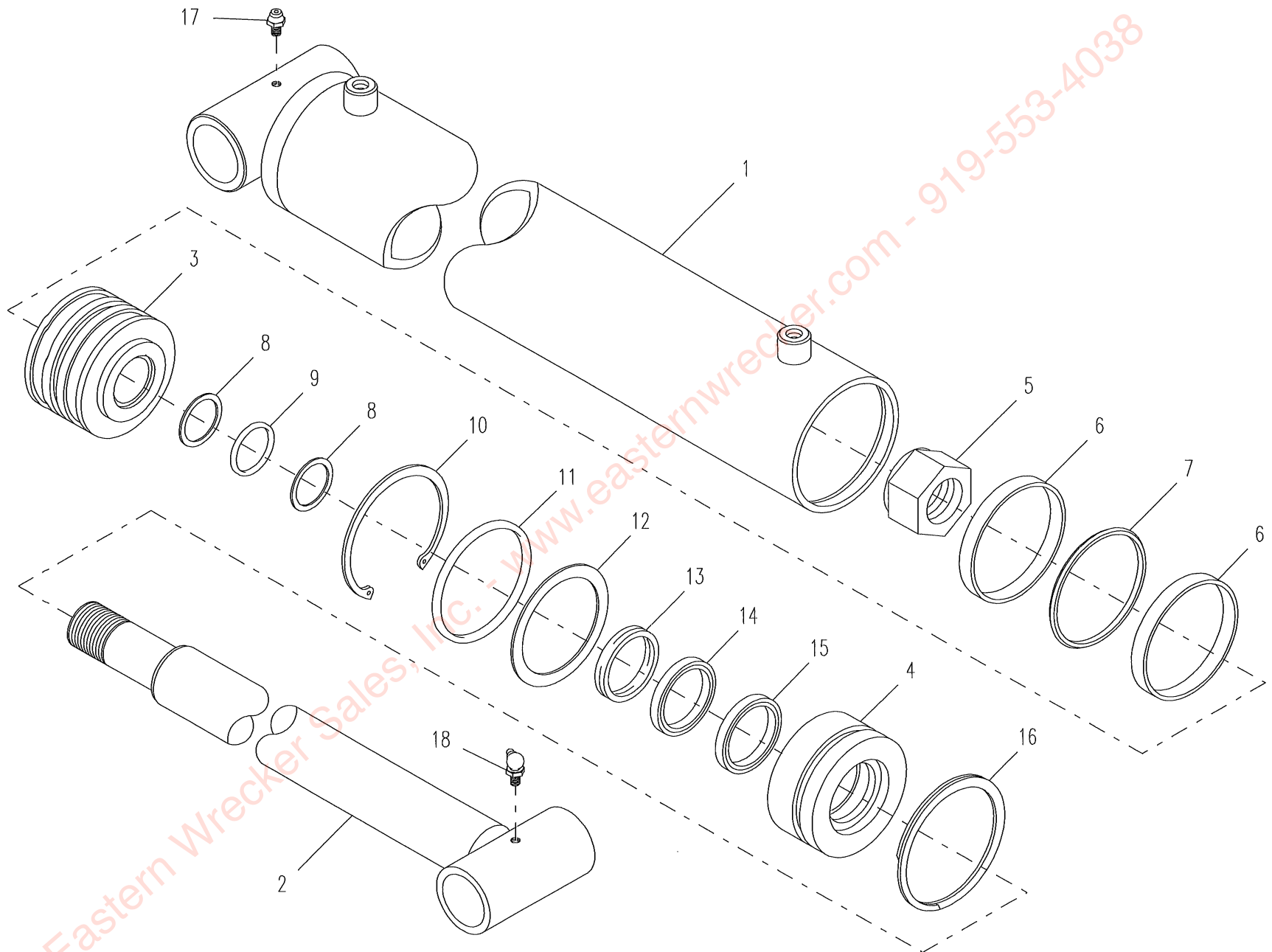
\*Available only in Service Kit #7577250024

Rev. \_\_\_\_\_

Date \_\_\_\_\_

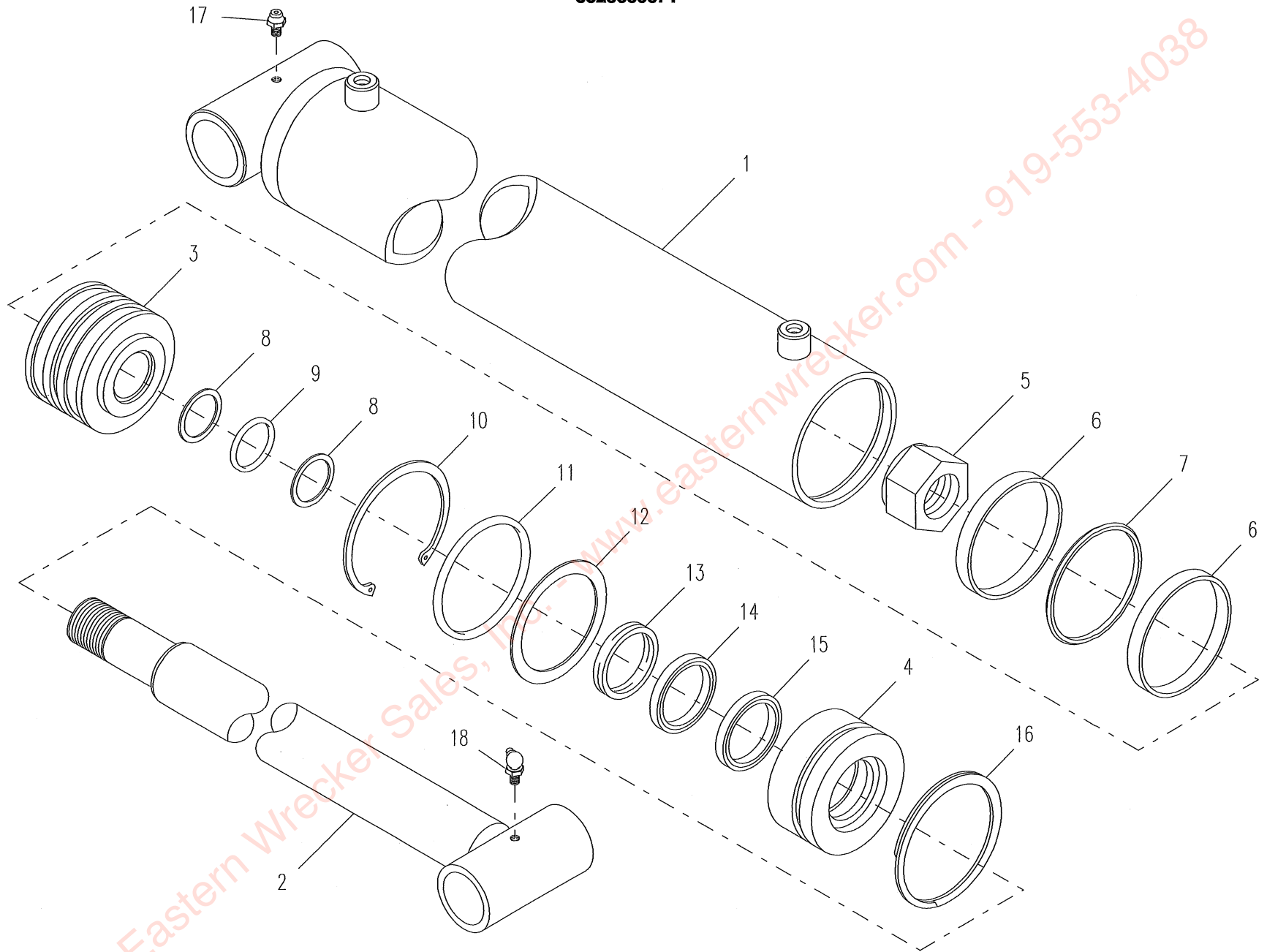
# IRL CYLINDER 3000# WHEELIFT

3320000069



IRL CYLINDER 4000# WHEELIFT

3320000071





# PARTS LIST — IRL CYLINDER 4000# WHEELIFT

3320000071

Ref. No.	Part No.	Description	Qty.
1	3071000066	Barrel Weldment	1
2	3763000088	Rod Weldment	1
3	4698000007	Piston	1
4	4553000008	Head	1
5	7660262031	Locknut	1
6	7754000003*	Wear Ring	2
7	7796000063*	Locking "T" Seal	1
8	7755224609*	Back-up Ring	2
9	7755224000*	"O" Ring	1
10	7754000002*	Retaining Ring	1
11	7755334000*	"O" Ring	1
12	7755334609*	Back-up Ring	1
13	7754000004*	Wear Ring	1
14	7796000024*	Rod Seal	1
15	7796000008*	Rod Wiper Seal	1
16	7754000026*	Retaining Ring	1
17	7440030000	Grease Fitting	1
18	7440030200	Grease Fitting	1

\*Available only in Service Kit #7577250024

## PARTS LIST — ZOD CYLINDER

3320000070

Ref. No.	Part No.	Description	Qty.
1	3071000067	Barrel Weldment	1
2	3763000087	Rod Weldment	1
3	4698000015	Piston	1
4	4553000016	Head	1
5	7660262031	Locknut	1
6	7754000053*	Wear Ring	2
7	7796000067*	Locking "T" Seal	1
8	7755222609*	Back-up Ring	2
9	7755222000*	"O" Ring	1
10	7754000051*	Retaining Ring	2
11	7755330000*	"O" Ring	1
12	7755330609*	Back-up Ring	1
13	7754000054*	Wear Ring	1
14	7796000045*	Rod Seal	1
15	7796000046*	Rod Wiper Seal	1
16	7440030000	Grease Fitting	1
17	7440030200	Grease Fitting	1

\*Available only in Service Kit #7577250206

# ZOD CYLINDER

3320000070

