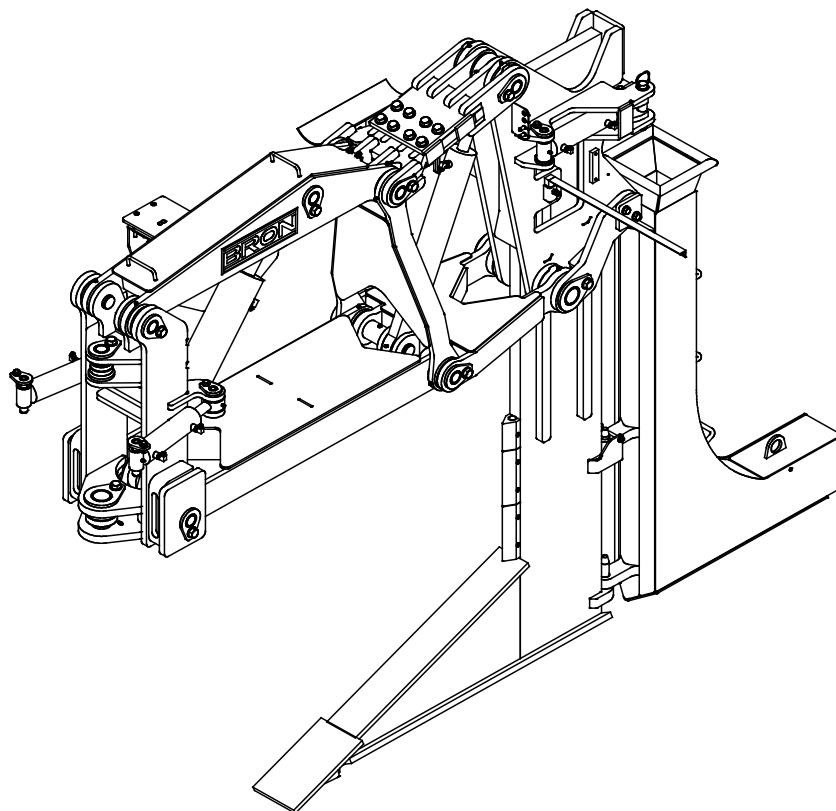


## **PARTS MANUAL**

### **BRON 400 DL PLOW**



### **RWF INDUSTRIES**

873 Devonshire Ave., Woodstock,

Ontario N4S 8Z4

Tel: (519) 421-0036

Toll Free: 1-800-263-1060

Fax: (519) 421-0028

Email: [parts@rwfbron.com](mailto:parts@rwfbron.com)



WARRANTY

PLOW BREAKDOWN

ACCESSORIES

HYDRAULICS AND CONTROLS

SHANK AND BACKPLATE



# CHAPTER 1: INTRODUCTION

## TABLE OF CONTENTS

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





## WARRANTY

### **BASE WARRANTY (6 months or 600 hours):**

RWF Industries a Division of Roberts Welding & Fabricating Ltd. (RWF) warrants that new BRON products sold by RWF will be free from defects in material or workmanship for a period of 6 months or 600 operating hours, whichever occurs first, starting from the date of delivery to the first user.

### **THIS WARRANTY DOES NOT APPLY TO:**

HYDRAULIC and MOUNTING INSTALLATION KIT PARTS, HOSES, OR REPLACEMENT PARTS, which are covered by other warranties

### **RWF RESPONSIBILITY:**

RWF will, at its option, repair or replace with a new or reconditioned part, any warranted part that fails by reason of defective material or workmanship, free of charge delivered at a place of business of an RWF Dealer. Note: parts replaced under warranty become the property of RWF. During the 6 month or 600 hour BASE WARRANTY period, RWF will pay the reasonable cost of labor that is necessary to install any repaired or replacement part during normal working hours. Overtime rates and travel expenses will not be reimbursed.

### **USER RESPONSIBILITY:**

- The installer, user, operator, or service person, assumes responsibility to read, understand and comply with RWF's written INSTALLATION, OPERATOR, SERVICE AND WELDING INSTRUCTIONS
- All costs associated with transporting the attachment and/or equipment to an authorized location.
- RWF is not responsible for any expense incurred in field repair.
- Supplying a hydraulic oil sample from the carrier machine upon request by RWF.

### **THESE WARRANTIES DO NOT COVER FAILURES RESULTING FROM:**

- Installation, alteration, operation, maintenance, repair or storage which RWF judges improper.
- Not performing DAILY VISUAL INSPECTIONS AND RETIGHTENING as specified in RWF Manuals.
- Not following RWF's recommended welding procedure.
- Operation after discovery of defective or worn parts.
- Unreasonable delay in making a repair after being notified of a potential problem.
- Acts of God, war, vandalism, riot, theft, explosion, and any other act of nature or man

### **THESE WARRANTIES SPECIFICALLY EXCLUDE:**

- Installations not approved by RWF.
- Hardface welding to build up wear on surfaces.
- Replacement due to wear.
- Ground engaging tools. Points, guards, blades etc.
- Repairs by other than an authorized RWF Dealer
- Any alteration to BRON products.
- Use of parts not sold by RWF.
- Labor charges deemed excessive by RWF.
- Parts shipping charges in excess of those, which are usual and customary.
- Duty and local taxes.

### **LIMITATIONS AND EXCLUSIONS:**

Violation of any federal, provincial, state or local laws, ordinances, rules or regulations, or removal or alteration of product serial numbers void RWF's written product warranties.

The written product warranties made by RWF set forth RWF's only obligations with respect to any claims of failure, defects or deficiencies in products sold by RWF. RWF MAKES NO OTHER WARRANTIES OR REPRESENTATIONS WHATSOEVER, EXPRESS OR IMPLIED, OF THE QUALITY, PERFORMANCE, DURABILITY, MATERIALS, WORKMANSHIP, SUITABILITY, CONDITION, DESIGN OR UTILITY OF PRODUCTS SOLD BY RWF, INCLUDING, WITHOUT LIMITATION, IMPLIED WARRANTIES OR MERCHANT ABILITY AND FITNESS. ALL SUCH OTHER WARRANTIES AND REPRESENTATIONS BEING HEREBY EXPRESSLY EXCLUDED. RWF SHALL NOT BE LIABLE FOR SPECIAL INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING WITHOUT LIMITATION, COSTS, LOSSES, OR LIABILITIES ON ACCOUNT OF DELAY OR DOWNTIME.

### **DISCLAIMER REGARDING OTHER REPRESENTATIONS OR WARRANTIES:**

No person is authorized to grant any other warranties or to assume any other liability on RWF's behalf unless made or assumed in writing by an officer of RWF. No person to grant any warranties or to assume any liabilities on the seller's behalf unless made or assumed in writing by the seller. As used in this warranty the term RWF means, RWF Industries, a division of Roberts Welding and Fabricating Ltd, Woodstock, Ontario, Canada.



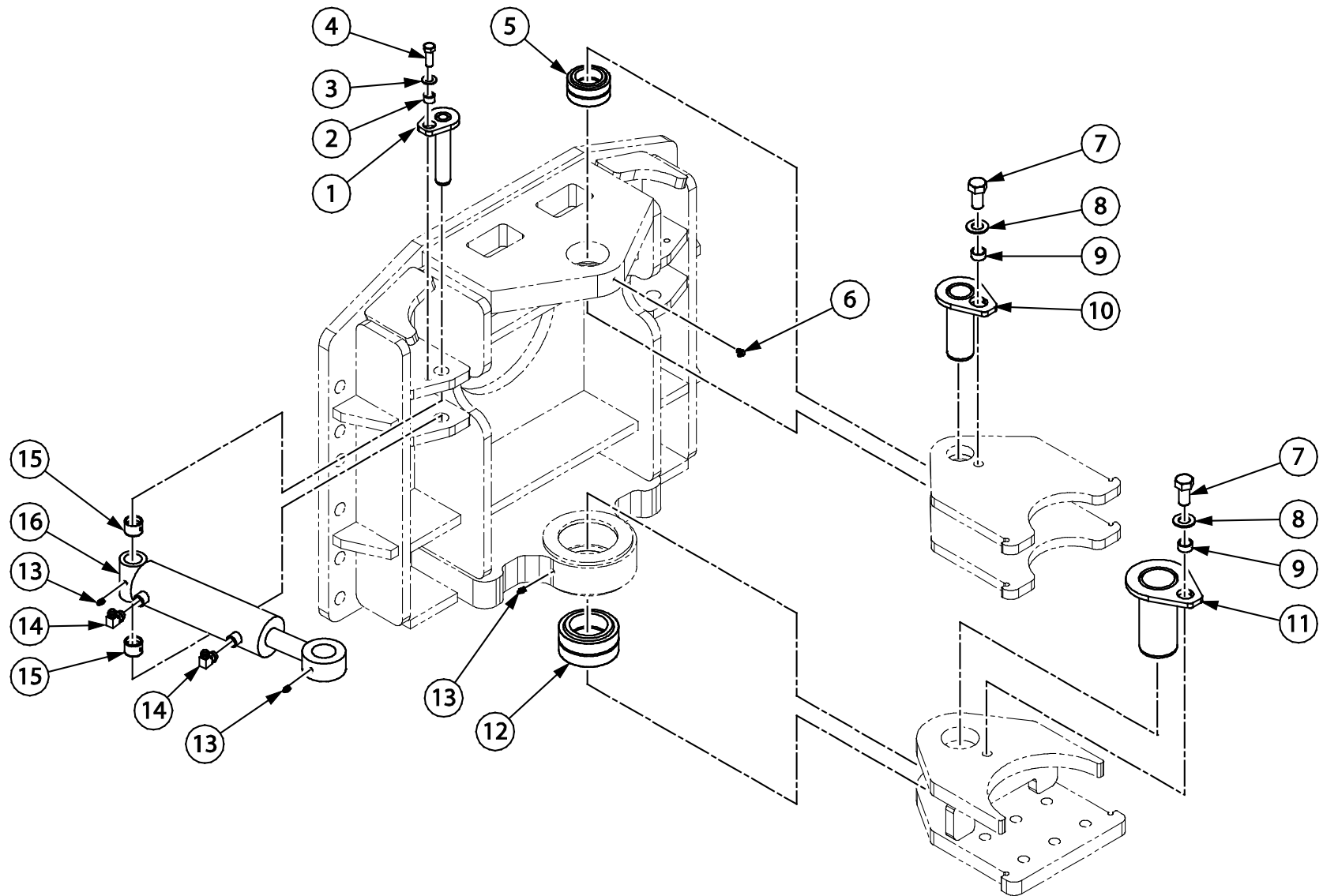


# CHAPTER 2: PLOW BREAKDOWN

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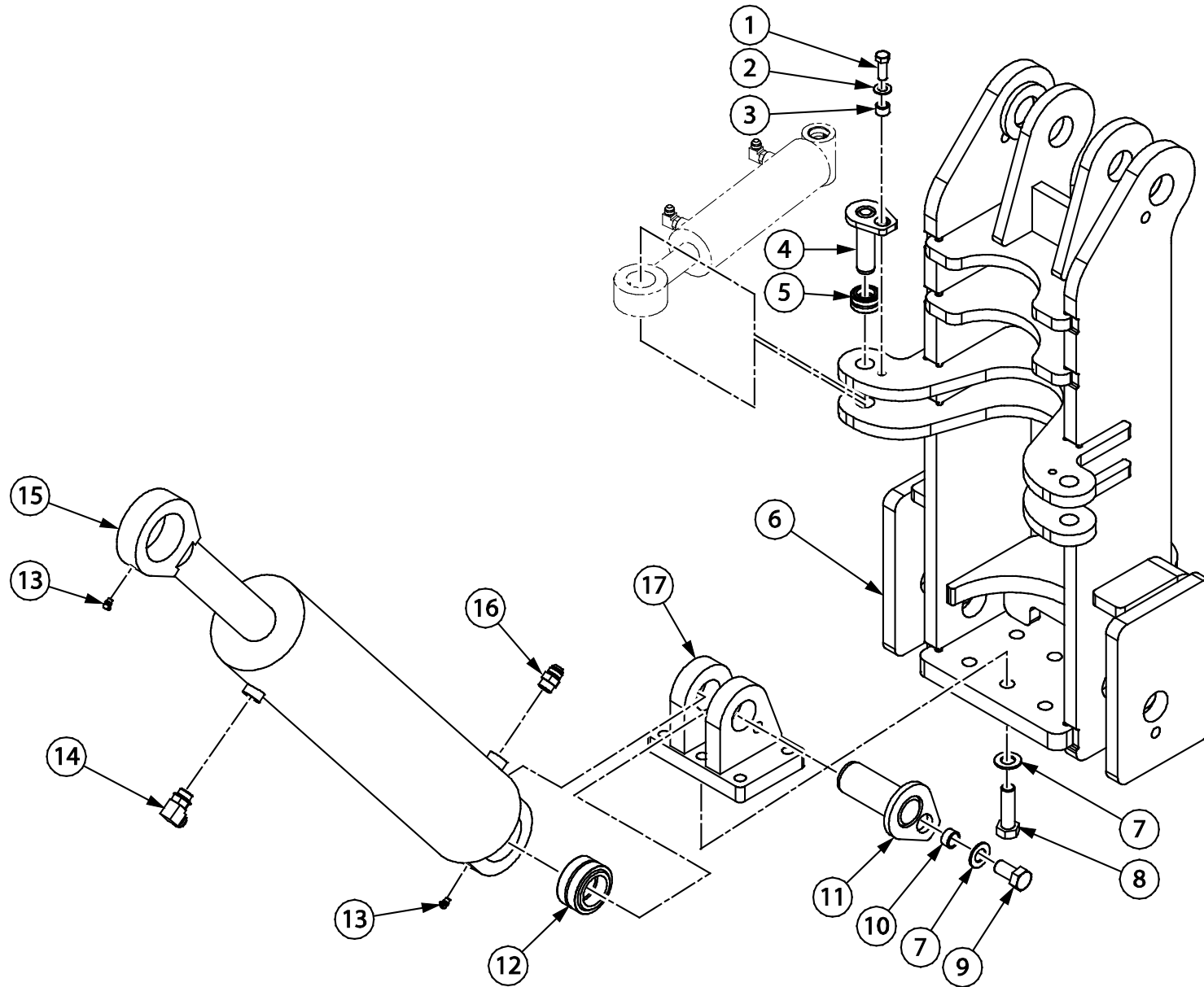
<b>BACKPLATE.....</b>	<b>1.1</b>
<b>FRONT MAST .....</b>	<b>1.2</b>
<b>UPPER LINK.....</b>	<b>1.3</b>
<b>LOWER LINK.....</b>	<b>1.4</b>
<b>VERTICAL LINK .....</b>	<b>1.5</b>
<b>SLIDER LINK.....</b>	<b>1.6</b>
<b>REAR LOWER LINK.....</b>	<b>1.7</b>
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<b>SWING AND BLAD LOCK CYLINDER.....</b>	<b>1.10</b>
<b>LIFT CYLINDER.....</b>	<b>1.11</b>
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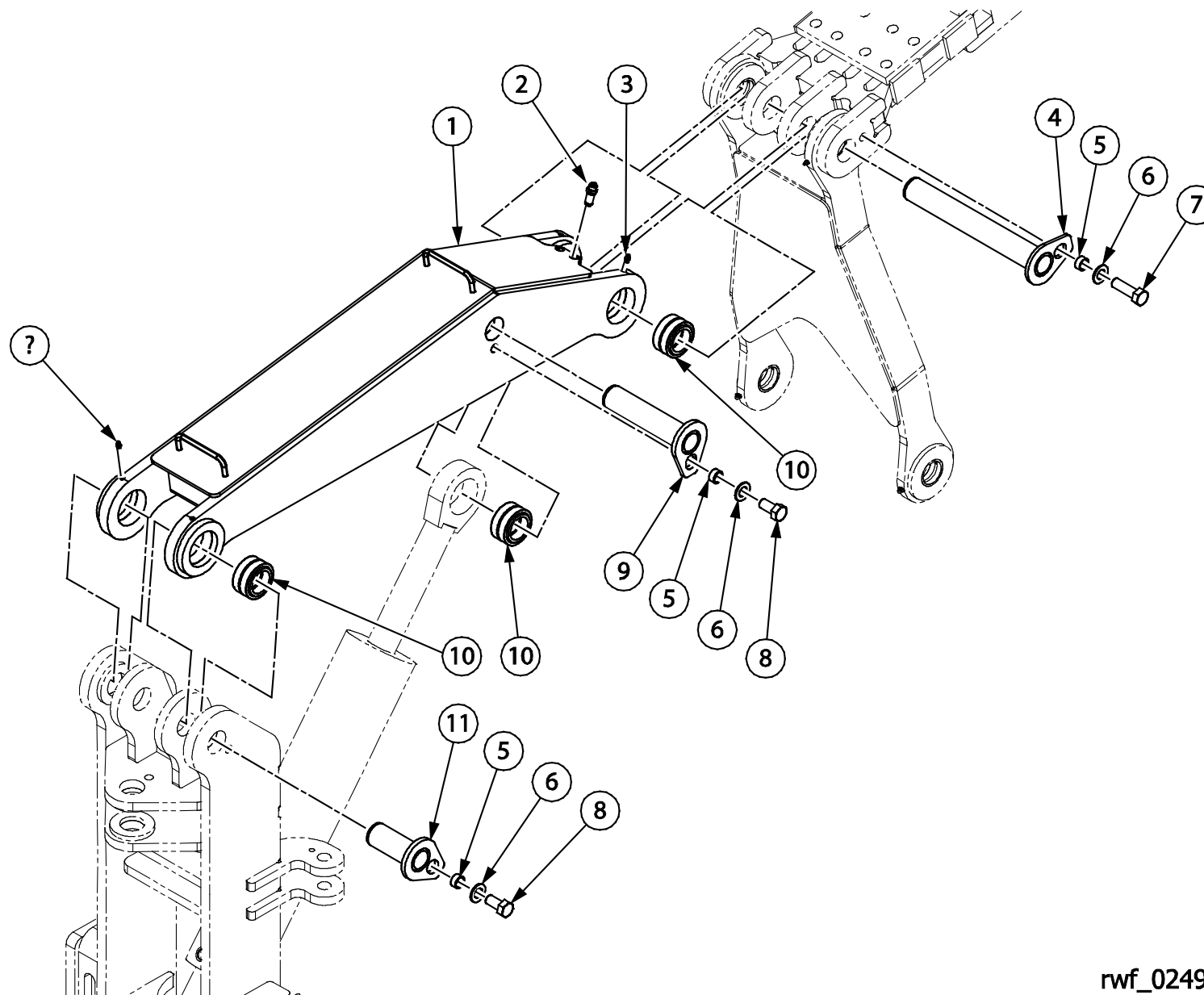
rwf\_0246

Item	Qty.	P/N	Description
1	2	12266	PIN ASSEMBLY
2	2	114862	BOLT SPACER
3	2	80581	WASHER
4	2	80091	HEX HEAD BOLT
5	1	12003	SWIVEL BUSHING
6	1	80682	90 DEG GREASE FITTING
7	2	80157	HEX HEAD BOLT
8	2	80584	WASHER
9	2	114851	BOLT SPACER
10	1	112933	PIN ASSEMBLY
11	1	112954	PIN ASSEMBLY
12	1	12006	SWIVEL BUSHING
13	5	80680	STRAIGHT GREASE FITTING
14	4	90246	90 DEG ADAPTER
15	4	16311	BUSHING
16	2	9900433	SWING AND BLADE LOCK CYLINDER (SEE SECTION 2.10 FOR ASSEMBLY BREAKDOWN)



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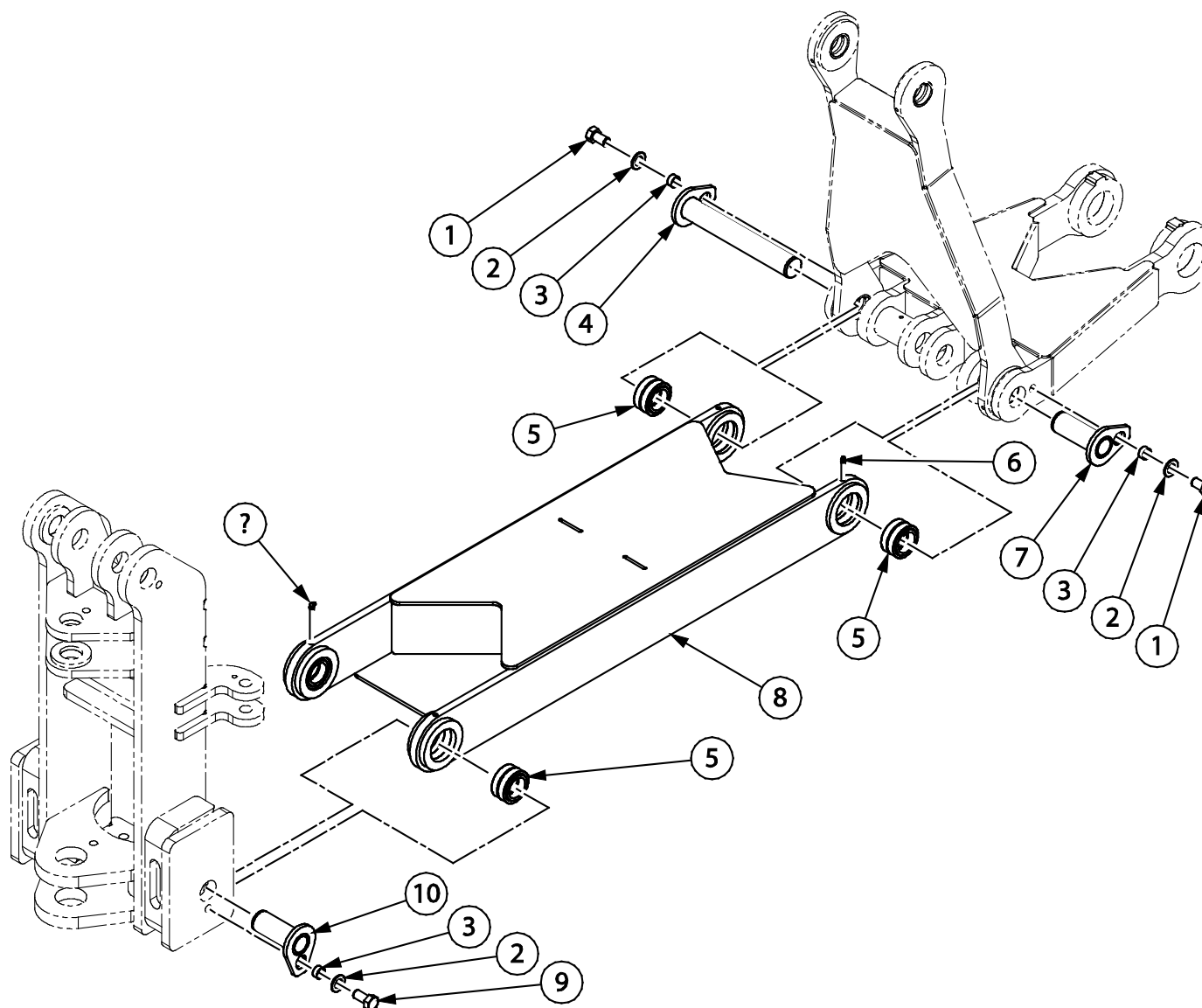
Item	Qty.	P/N	Description
1	2	80091	HEX HEAD BOLT
2	2	80581	WASHER
3	2	114862	BOLT SPACER
4	2	12264	PIN ASSEMBLY
5	2	12001	SWIVEL BUSHING
6	1	29884	MAIN MAST WELDMENT
7	7	80584	WASHER
8	6	80163	HEX HEAD BOLT
9	1	80157	HEX HEAD BOLT
10	1	114851	BOLT SPACER
11	1	113209	PIN ASSEMBLY
12	1	12003	SWIVEL BUSHING
13	2	80682	90 DEG GREASE FITTING
14	1	90251	90 DEG ADAPTER
15	1	135126	LIFT CYLINDER (SEE SECTION 2.11 FOR ASSEMBLY BREAKDOWN)
16	1	90076	STRAIGHT ADAPTER
17	1	30017	CLEVIS BRACKET



rwf\_0249

Item	Qty.	P/N	Description
1	1	21441	FRONT TOP LINK WELDMENT
2	2	90469	STRAIGHT BULKHEAD ADAPTER
3	4	80680	STRAIGHT GREASE FITTING
4	1	117304	PIN ASSEMBLY
5	4	114851	BOLT SPACER
6	4	80584	WASHER
7	1	80162	HEX HEAD BOLT
8	3	80157	HEX HEAD BOLT
9	1	112935	PIN ASSEMBLY
10	5	12003	SWIVEL BUSHING
11	2	113209	PIN ASSEMBLY





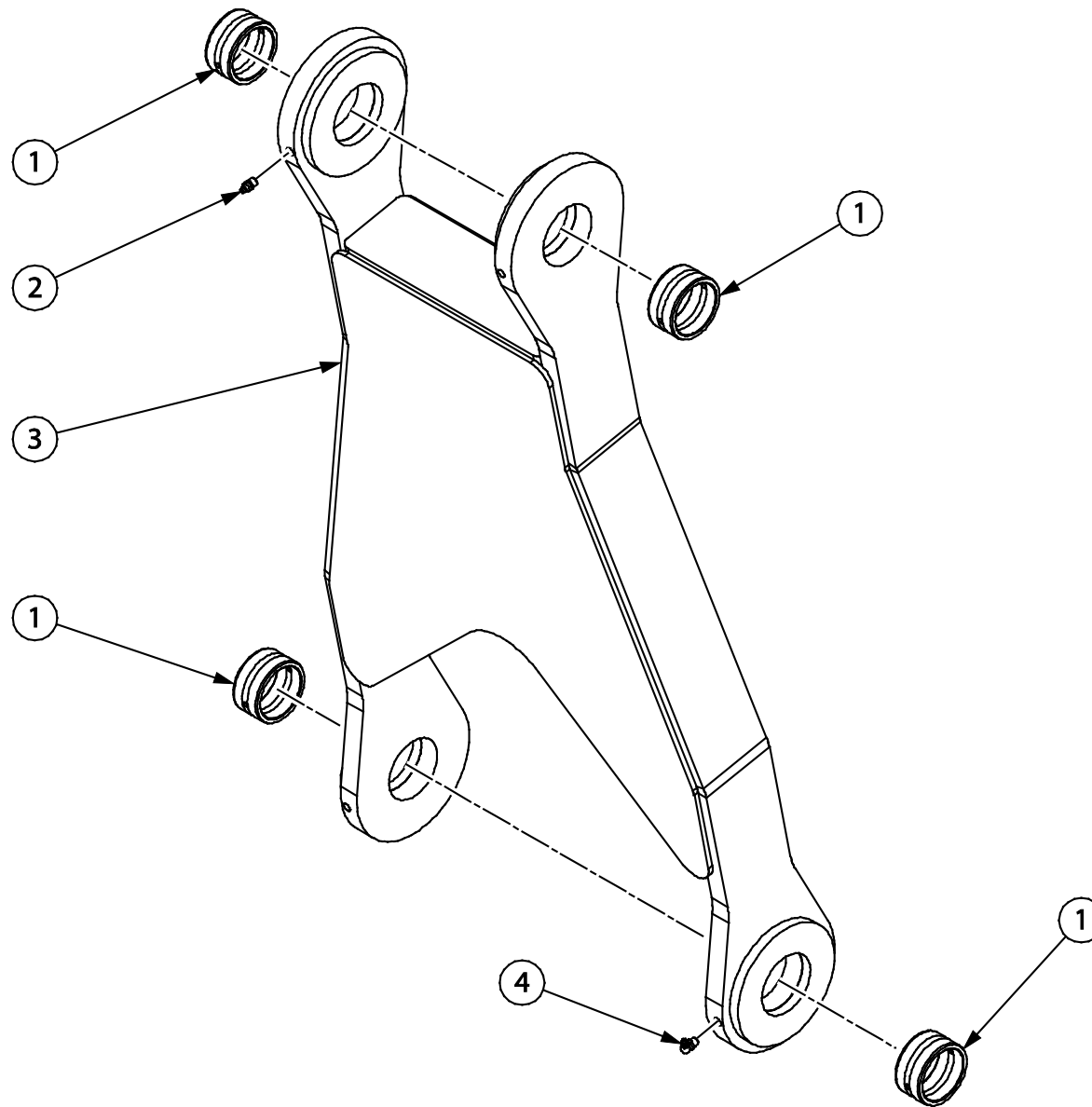
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## 2.4 LOWER LINK

DL400

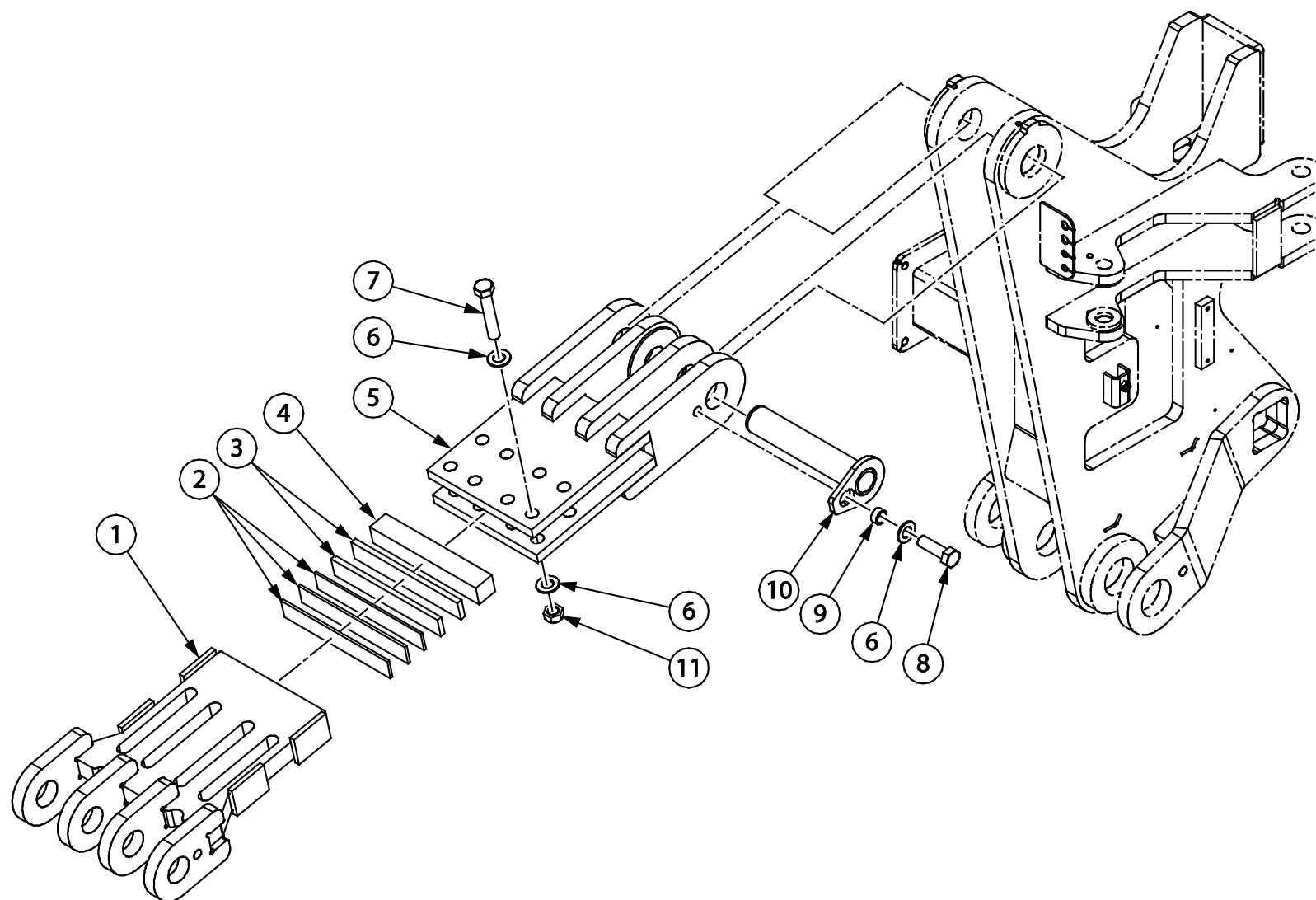
PARTS MANUAL

Item	Qty.	P/N	Description
1	2	80156	HEX HEAD BOLT
2	4	80584	WASHER
3	4	114851	BOLT SPACER
4	1	117176	PIN ASSEMBLY
5	4	12003	SWIVEL BUSHING
6	2	80680	STRAIGHT GREASE FITTING
7	1	112933	PIN ASSEMBLY
8	1	29885	FRONT BOTTOM LINK WELDMENT
9	2	80157	HEX HEAD BOLT
10	2	113209	PIN ASSEMBLY
11	2	80682	90 DEG GREASE FITTING



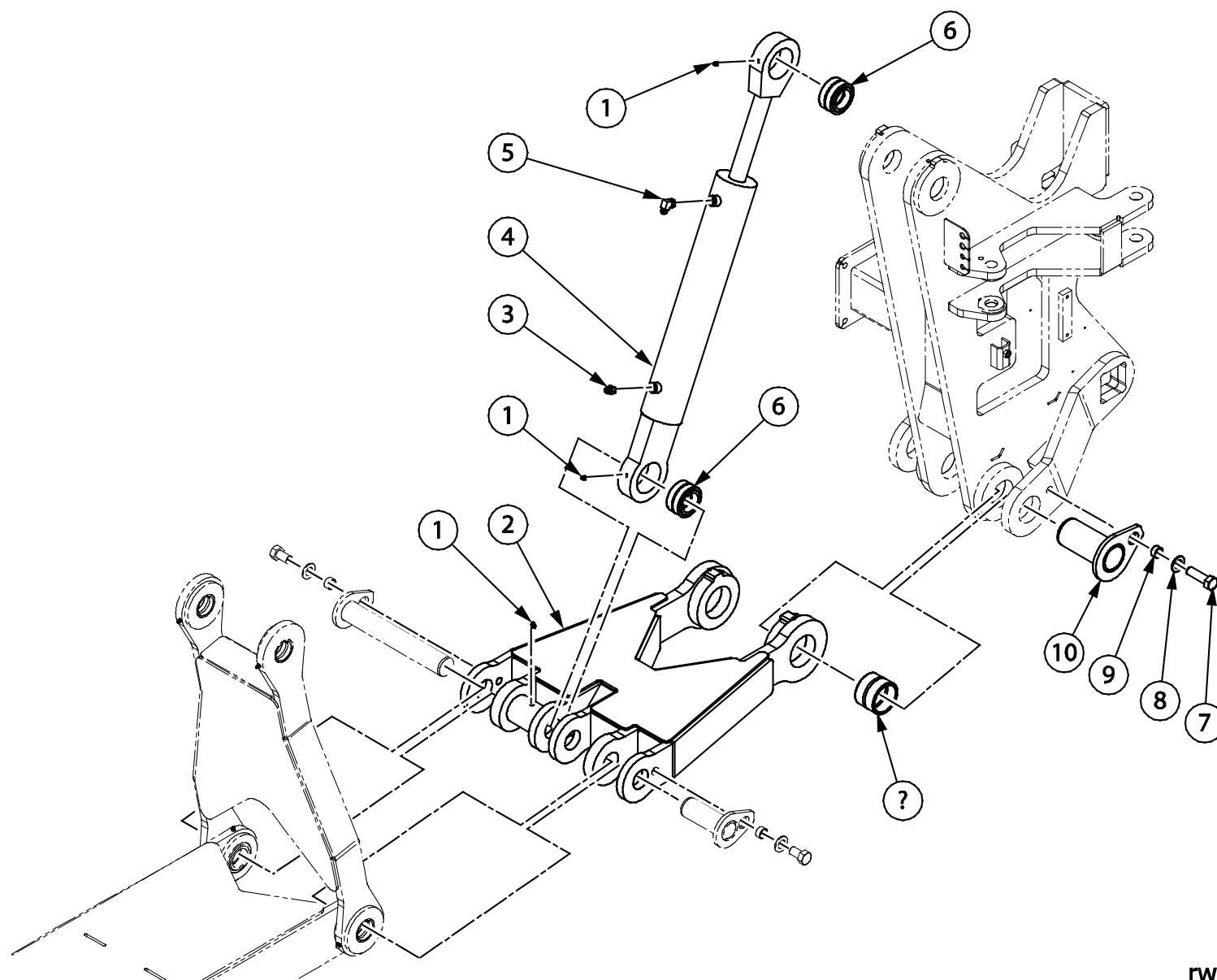
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Item	Qty.	P/N	Description
1	4	16323	BUSHING
2	2	80680	STRAIGHT GREASE FITTING
3	1	29886	VERTICAL LINK WELDMENT
4	2	80682	90 DEG GREASE FITTING



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Item	Qty.	P/N	Description
1	1	29908	MALE SLIDER LINK WELDMENT
2	3	111269	1/4" SHIM
3	2	115709	1/2" SHIM
4	1	115710	2" SHIM
5	1	21442	REAR UPPER FEMALE LINK WELDMENT
6	17	80584	WASHER
7	8	80168	HEX HEAD BOLT
8	1	80162	HEX HEAD BOLT
9	1	114851	BOLT SPACER
10	1	112934	PIN ASSEMBLY
11	8	80519	LOCK NUT



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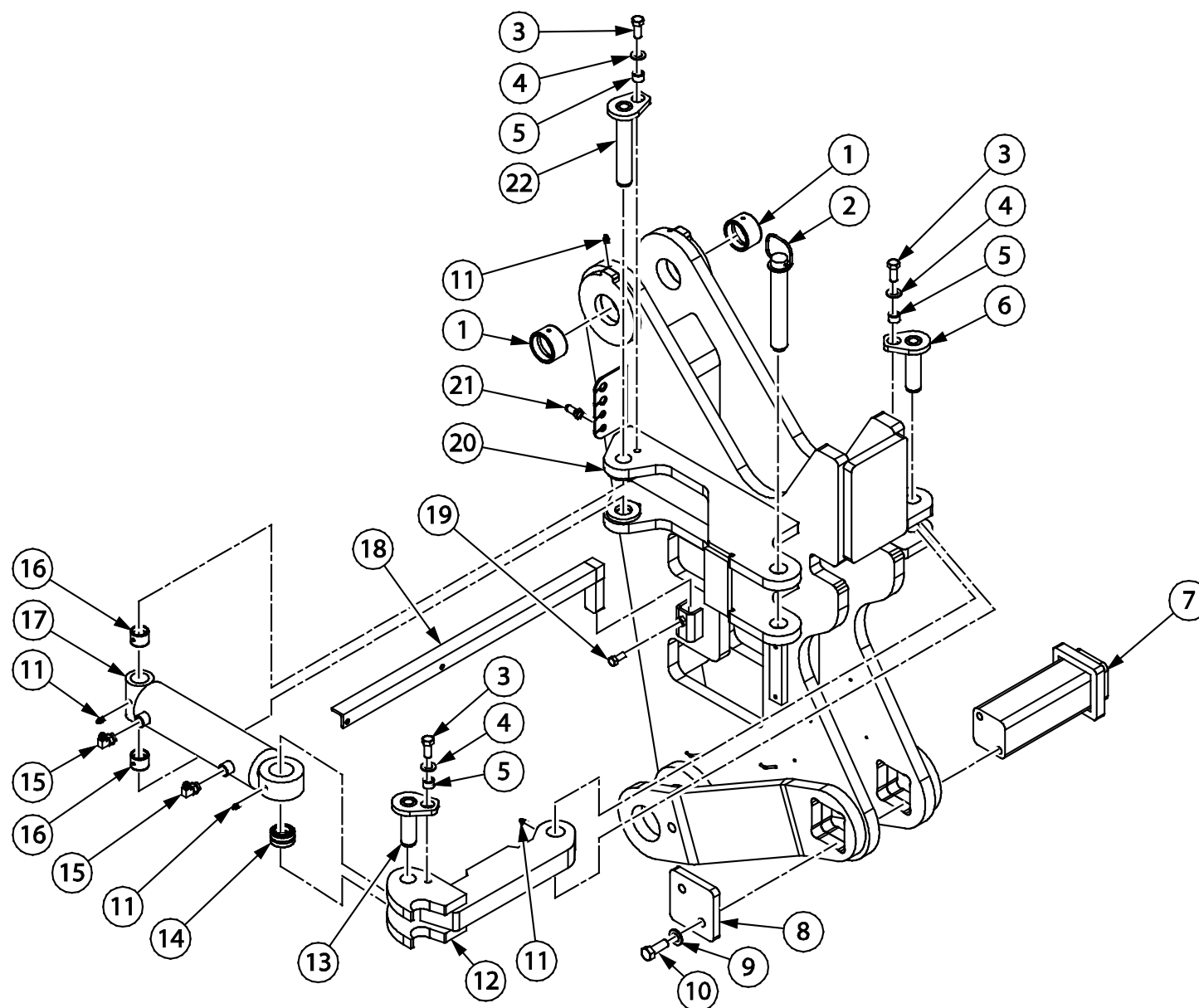
## 2.7 REAR LOWER LINK

DL400

PARTS MANUAL

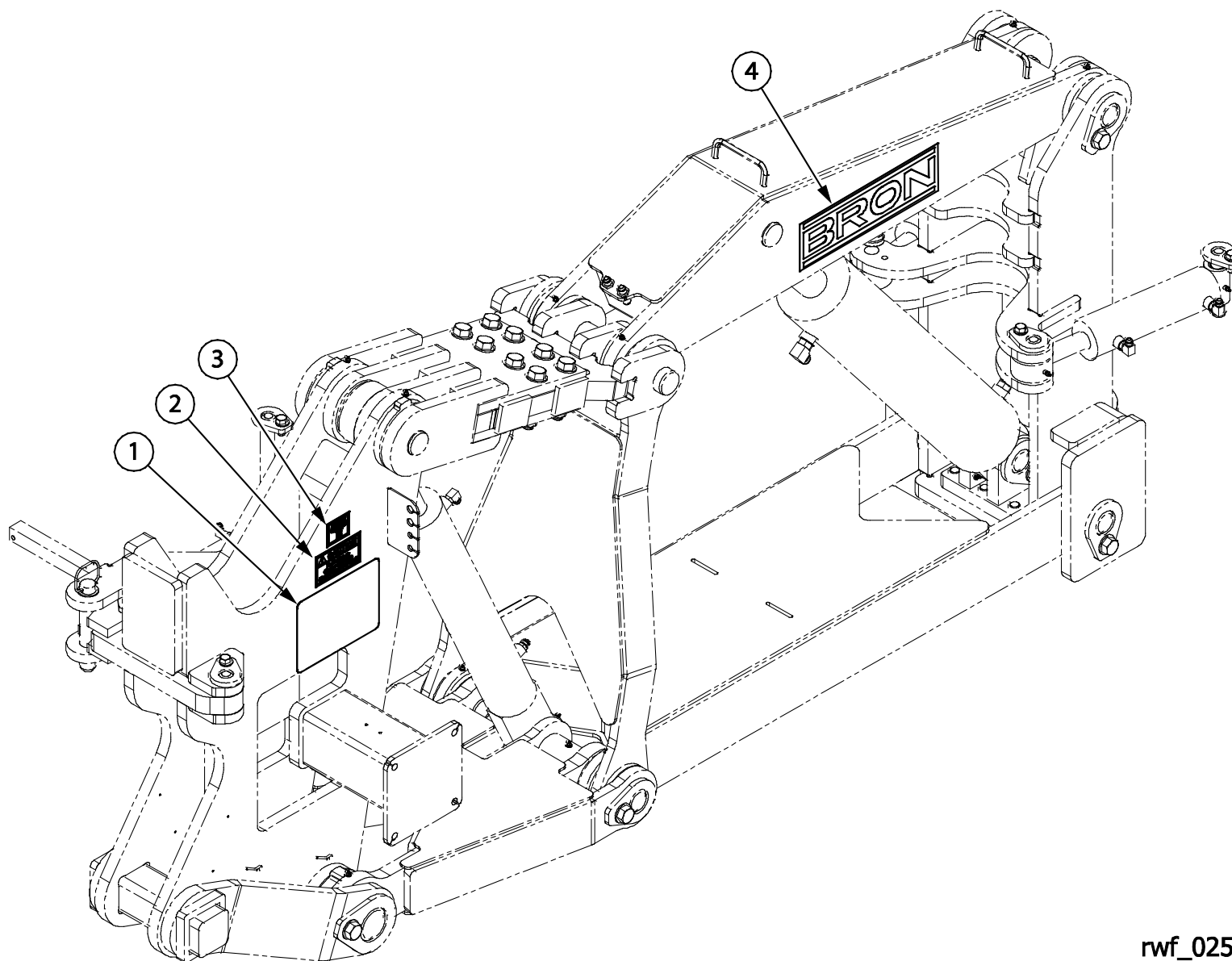
Item	Qty.	P/N	Description
1	5	80680	STRAIGHT GREASE FITTING
2	1	29905	REAR BOTTOM LINK WELDMENT
3	1	90071	STRAIGHT ADAPTER
4	1	112936	ATTITUDE CYLINDER <b>(SEE SECTION 2.12 FOR ASSEMBLY BREAKDOWN)</b>
5	1	90246	90 DEG ADAPTER
6	2	12003	SWIVEL BUSHING
7	2	80162	HEX HEAD BOLT
8	2	80584	WASHER
9	2	114851	BOLT SPACER
10	2	112954	PIN ASSEMBLY
11	2	112755	BUSHING





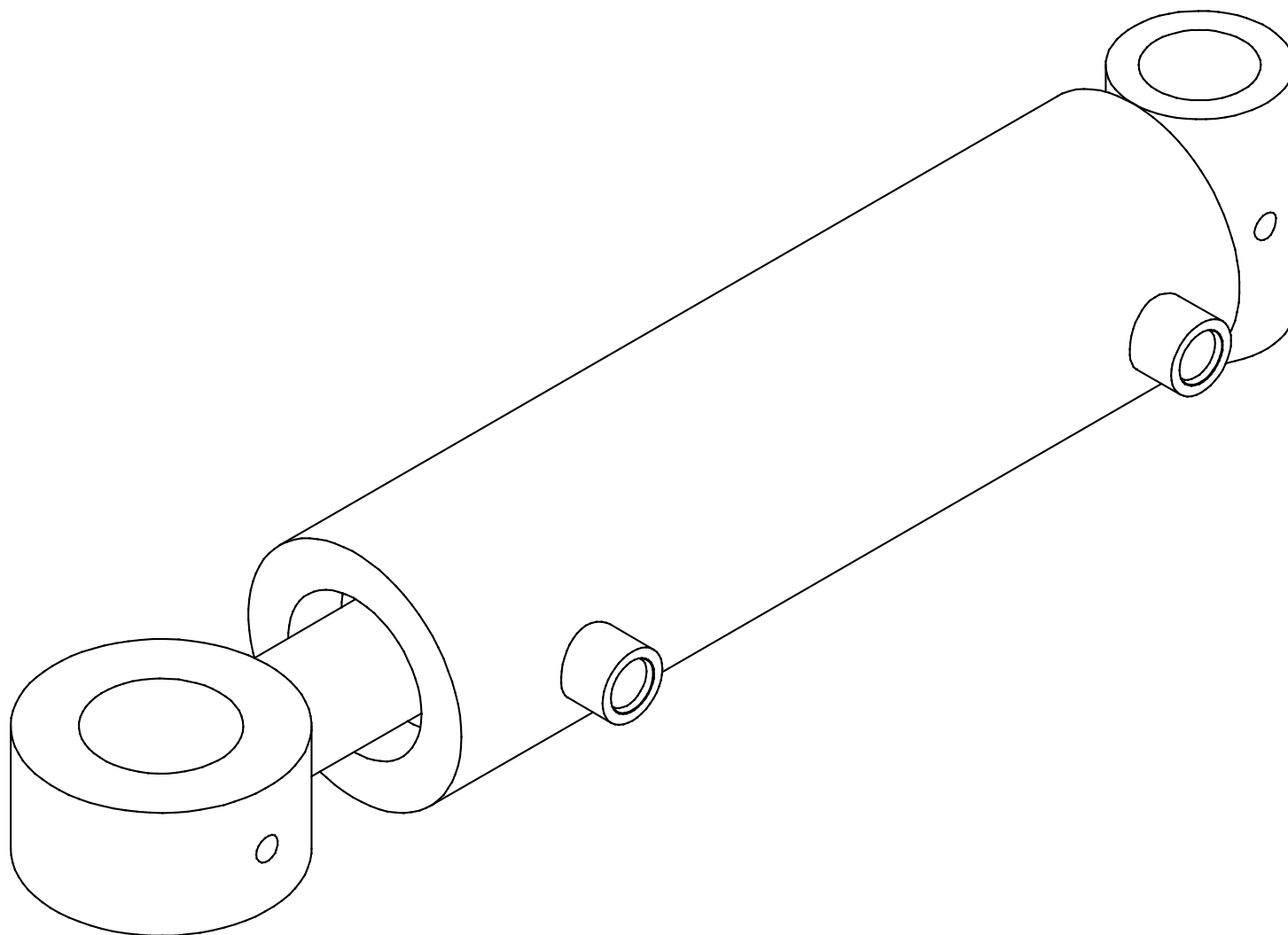
rwf\_0254

Item	Qty.	P/N	Description
1	2	16062	BUSHING
2	1	9900441	HITCH PIN
3	3	80090	HEX HEAD BOLT
4	3	80581	WASHER
5	3	114862	BOLT SPACER
6	1	12264	PIN ASSEMBLY
7	1	141369	SQUARE PIN ASSEMBLY
8	1	130091	RETAINER PLATE
9	2	80582	WASHER
10	2	80111	HEX HEAD BOLT
11	5	80680	STRAIGHT GREASE FITTING
12	1	114615	LOCKING ARM
13	1	114617	PIN ASSEMBLY
14	1	12001	SWIVEL BUSHING
15	2	90245	90 DEG ADAPTER
16	2	16311	BUSHING
17	1	9900433	SWING AND BLADE LOCK CYLINDER (SEE SECTION 2.10 FOR ASSEMBLY BREAKDOWN)
18	1	124492	DEPTH INDICATOR ASSEMBLY
19	1	80070	HEX HEAD BOLT
20	1	29887	BLADE HOLDER WELDMENT
21	2	90468	STRAIGHT BULKHEAD ADAPTER
22	1	117285	PIN ASSEMBLY



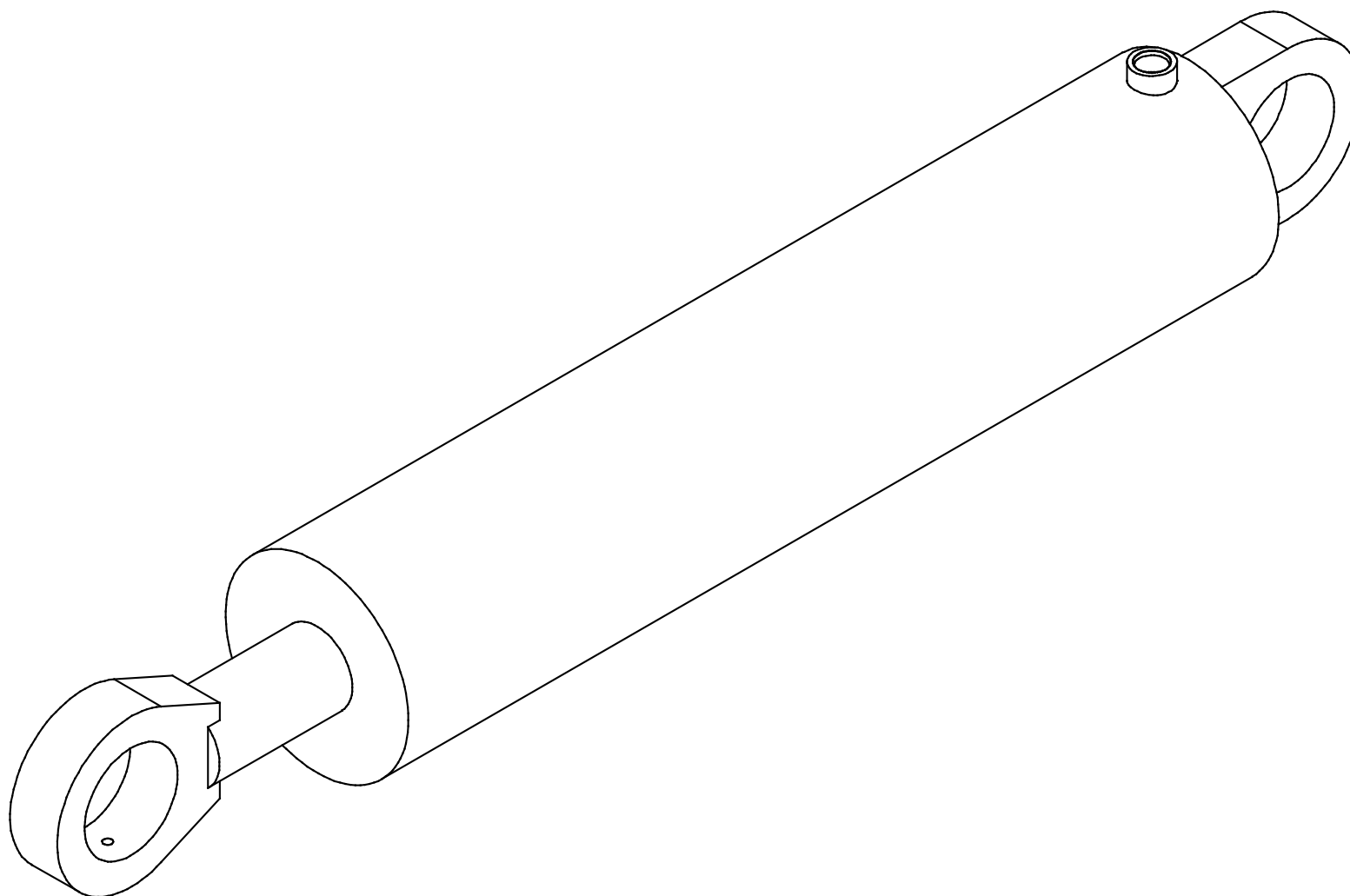
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Item	Qty.	P/N	Description
1	1	141483	LUBRICATION DECAL
2	1	11982	NO WELDING DECAL
3	1	16923	BRON PATENT# DEVAL
4	2	113149	BRON DECAL



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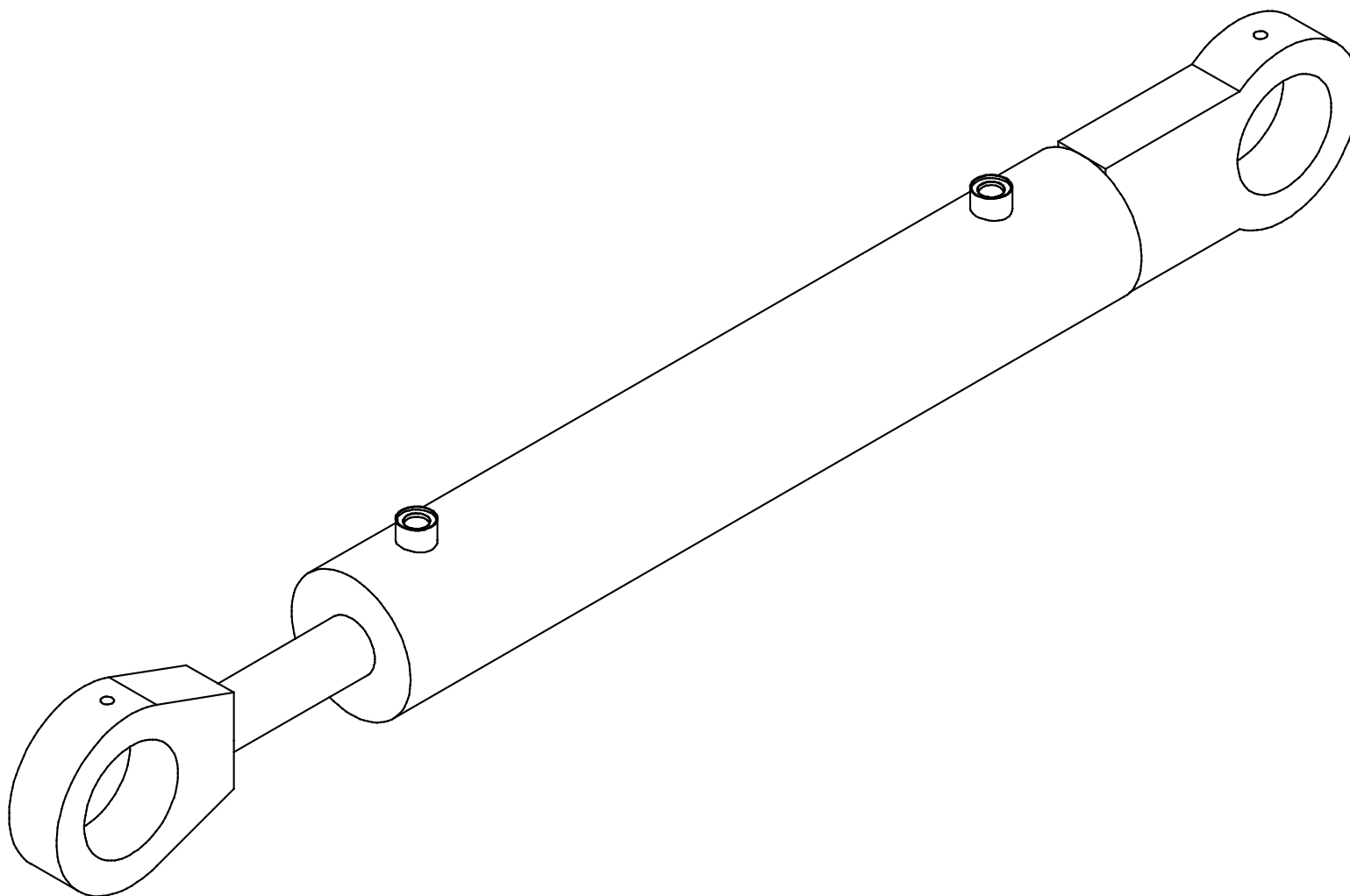
Item	Qty.	P/N	Description
1	REF	12001	SWIVEL BUSHING
2	REF	16311	BUSHING
3	REF	14126	SEAL KIT
4	REF	SVP100017	NUT
5	REF	SVP100018	ROD WELDMENT
6	REF	SVP100019	PISTON
7	REF	140234	ROD-EYE



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Item	Qty.	P/N	Description
*	REF	12003	SWIVEL BUSHING (2)





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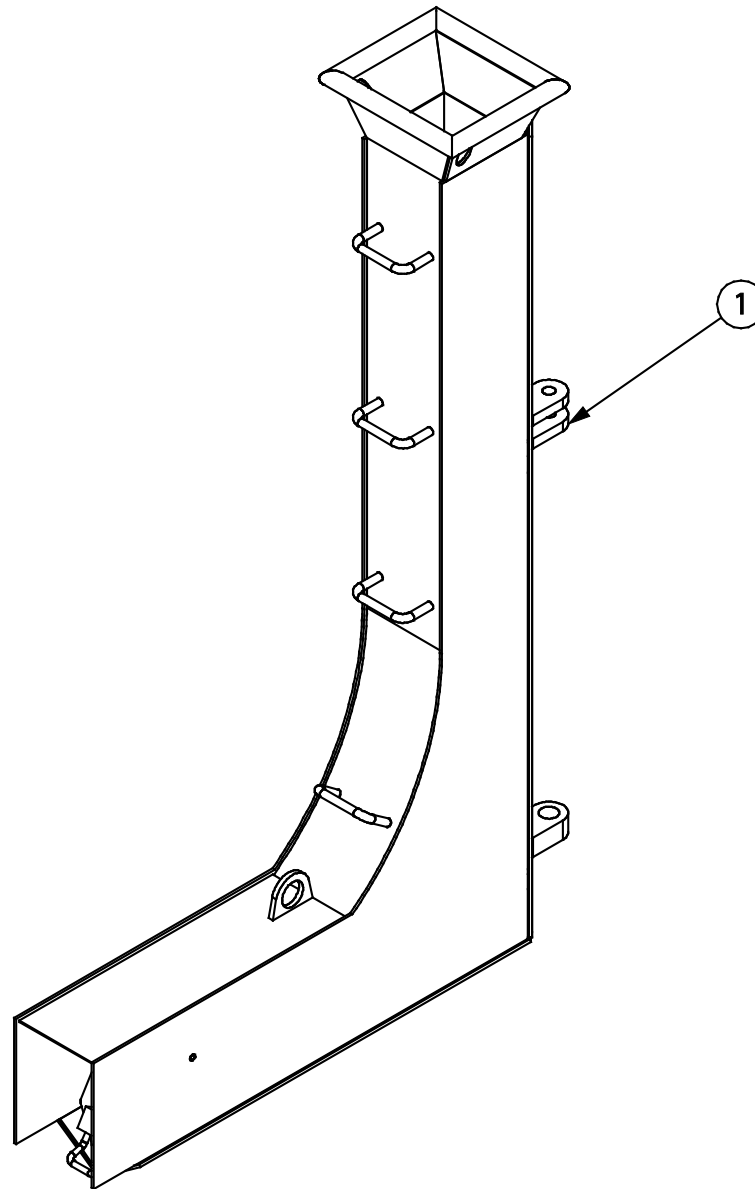
Item	Qty.	P/N	Description
*	REF	12003	SWIVEL BUSHING (2)
*	REF	SVP100074	SEAL KIT

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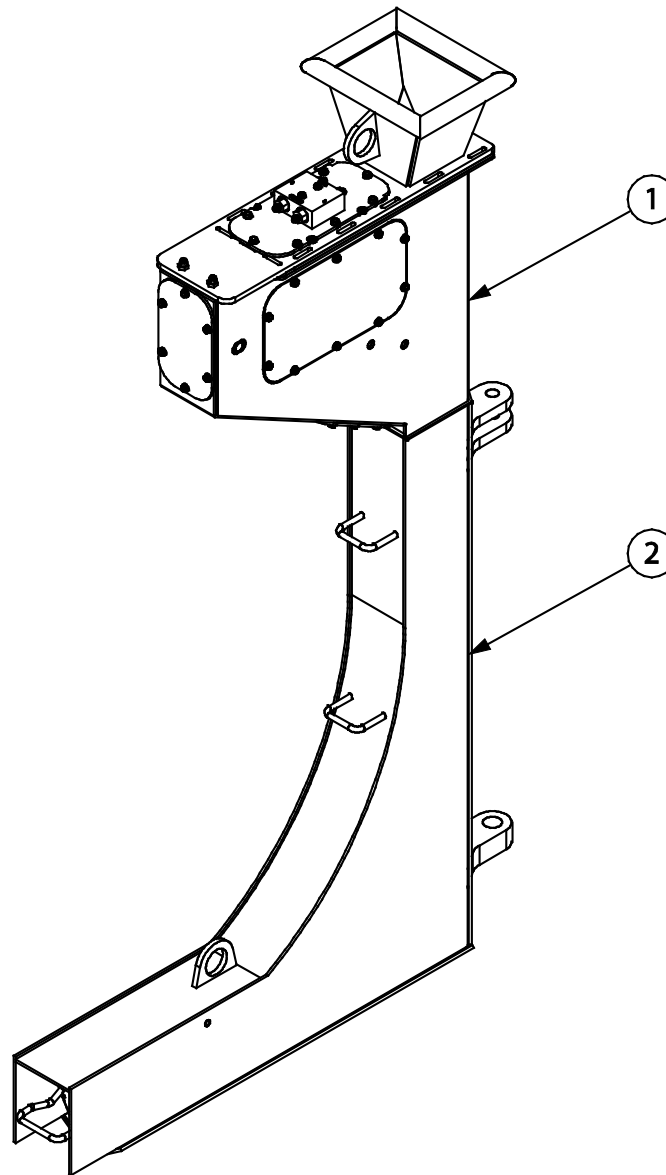
<b><i>CHUTE, 6" X 93".....</i></b>	<b><i>3.1</i></b>
<b><i>CHUTE W/ TILE CUTTER, 4 IN x 93 IN.....</i></b>	<b><i>3.2</i></b>
<b><i>LASER LAYDOWN BOOM ASSEMBLY.....</i></b>	<b><i>3.3</i></b>
<b><i>LASER LAYDOWN INSTALLATION.....</i></b>	<b><i>3.4</i></b>
<b><i>POWER FEEDER ASSEMBLY, 8".....</i></b>	<b><i>3.5</i></b>
<b><i>POWER FEEDER INSTALLATION, 8".....</i></b>	<b><i>3.6</i></b>
<b><i>TILE CUTTER, 4 IN.....</i></b>	<b><i>3.7</i></b>





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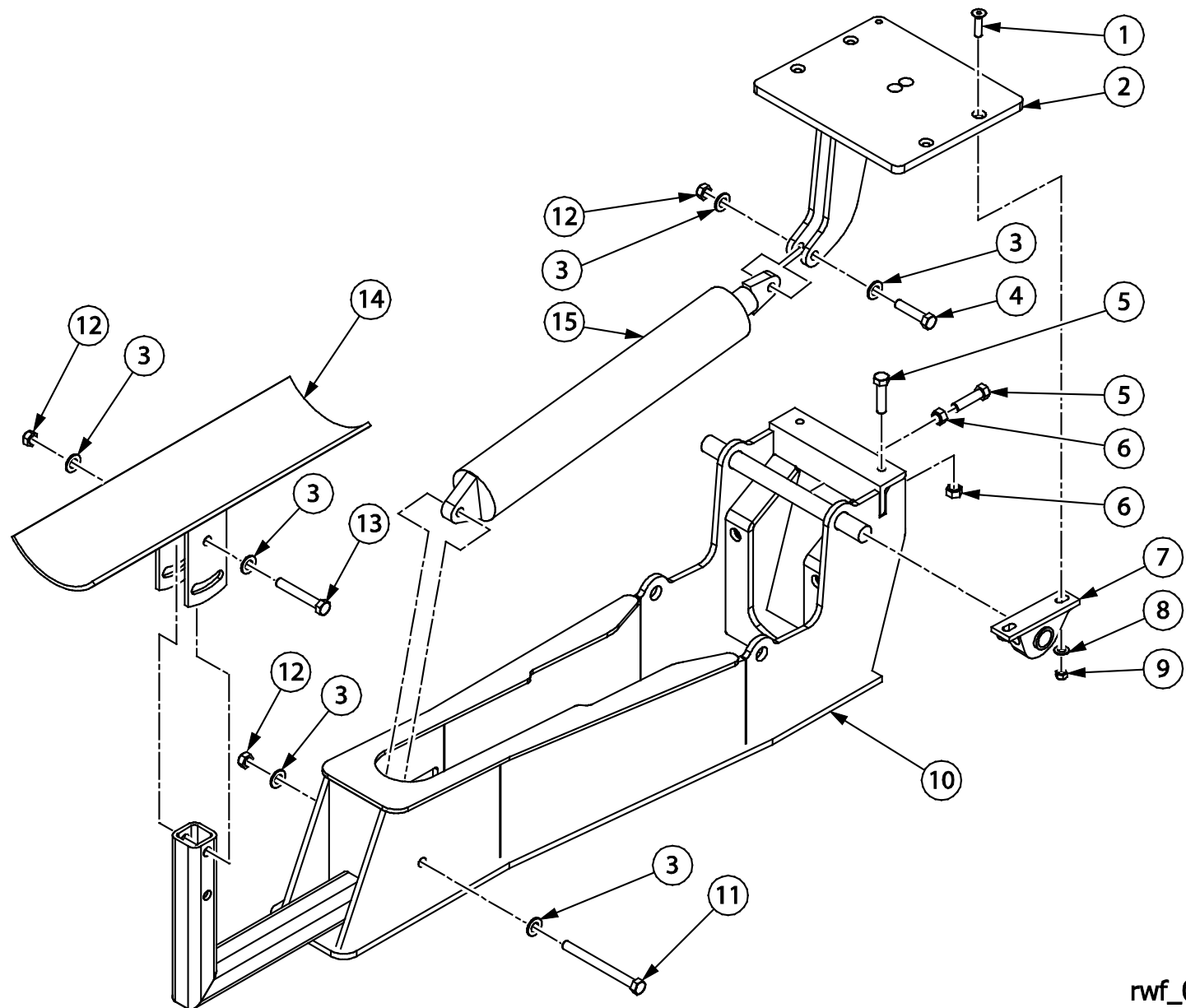
Item	Qty.	P/N	Description
1	1	32834	CHUTE, 6 IN X 93 IN



rwf\_0268

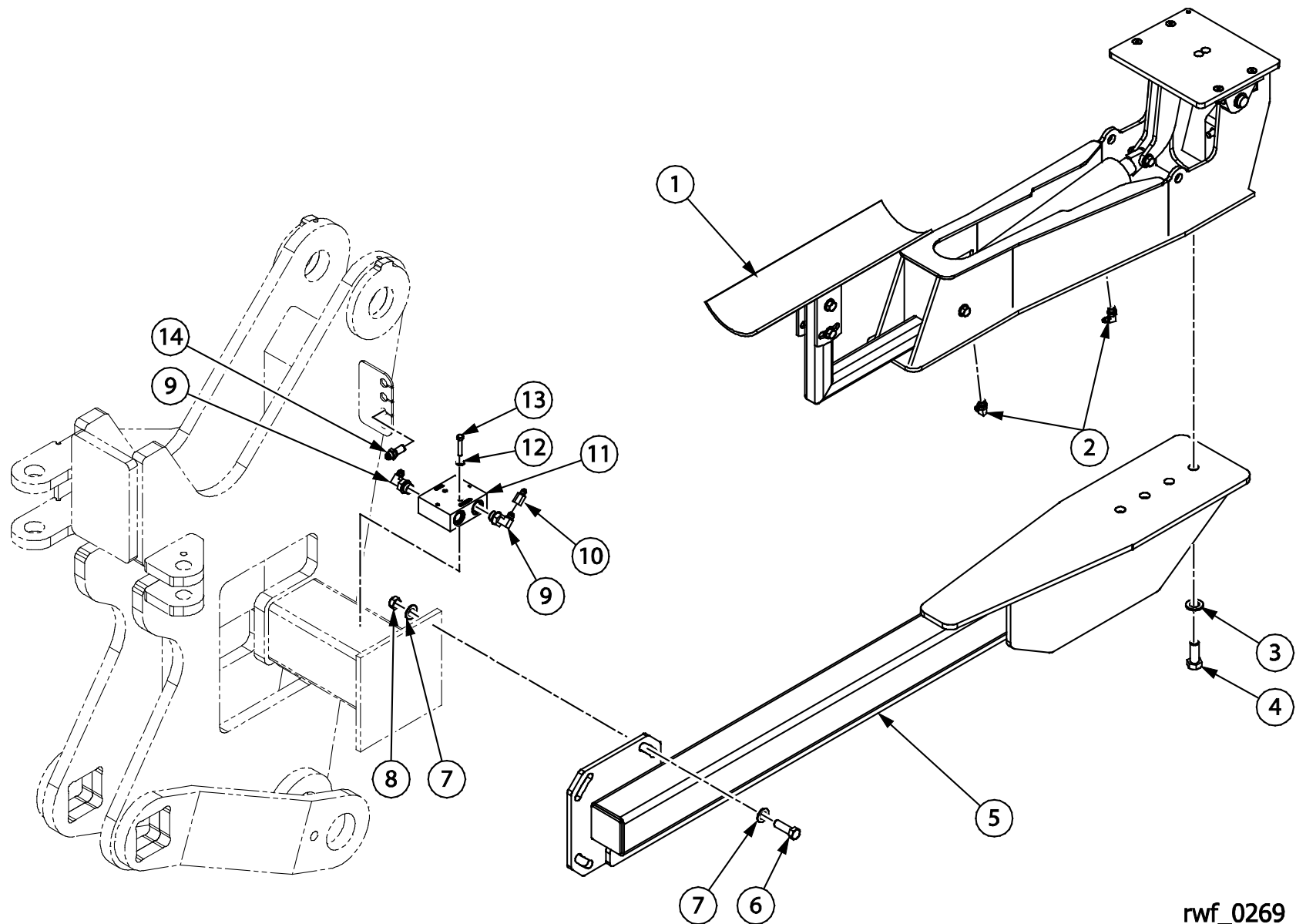
Item	Qty.	P/N	Description
1	1	32836	WELDMENT, CHUTE 4" X 93"
2	1	31981	4" TILE CUTTER - MAX 90 (SEE SECTION 3.7 FOR ASSEMBLY BREAKDOWN)





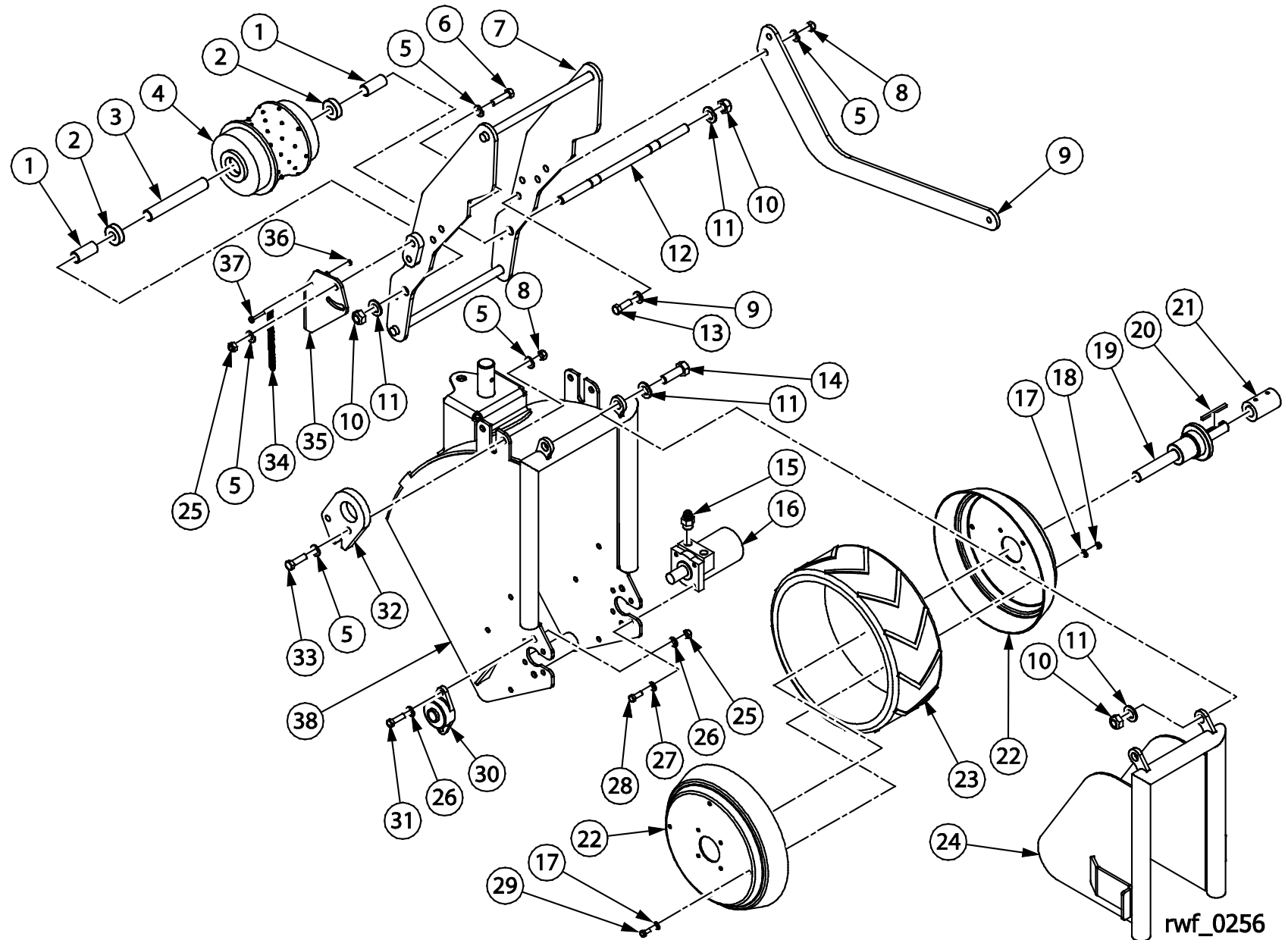
rwf\_0258

Item	Qty.	P/N	Description
1	4	80425	SOCKET HEAD FLAT SCREW
2	1	116925	LASER BASE PLATE WELDMENT
3	8	80580	WASHER
4	1	80074	HEX HEAD BOLT
5	4	80073	HEX HEAD BOLT
6	4	80504	NUT
7	2	112217	PILLOW BLOCK BEARING
8	4	80578	WASHER
9	4	80513	LOCK NUT
10	1	22901	LASER LAYDOWN BOOM WELDMENT
11	1	80084	HEX HEAD BOLT
12	4	80515	LOCK NUT
13	2	80078	HEX HEAD BOLT
14	1	123694	MAIN MAST CRADELE WELDMENT
15	1	133277	CYLINDER



rwf\_0269

Item	Qty.	P/N	Description
1	1	22900	LASER LAYDOWN BOOM ASSEMBLY (SEE SECTION 4.3 FOR ASSEMBLY BREAKDOWN)
2	2	90237	90 DEG ADAPTER
3	1	80582	WASHER
4	1	80111	HEX HEAD BOLT
5	1	30794	LASER LAYDOWN BOOM WELDMENT
6	4	80092	HEX HEAD BOLT
7	8	80581	WASHER
8	4	80516	LOCK NUT
9	4	90897	90 DEG ADAPTER
10	2	90357	STRAIGHT SWIVEL REDUCER ADAPTER
11	1	13161	DOUBLE LOCK VALVE
12	2	80577	WASHER
13	2	80018	HEX HEAD BOLT
14	2	90468	STRAIGHT BULKHEAD ADAPTER



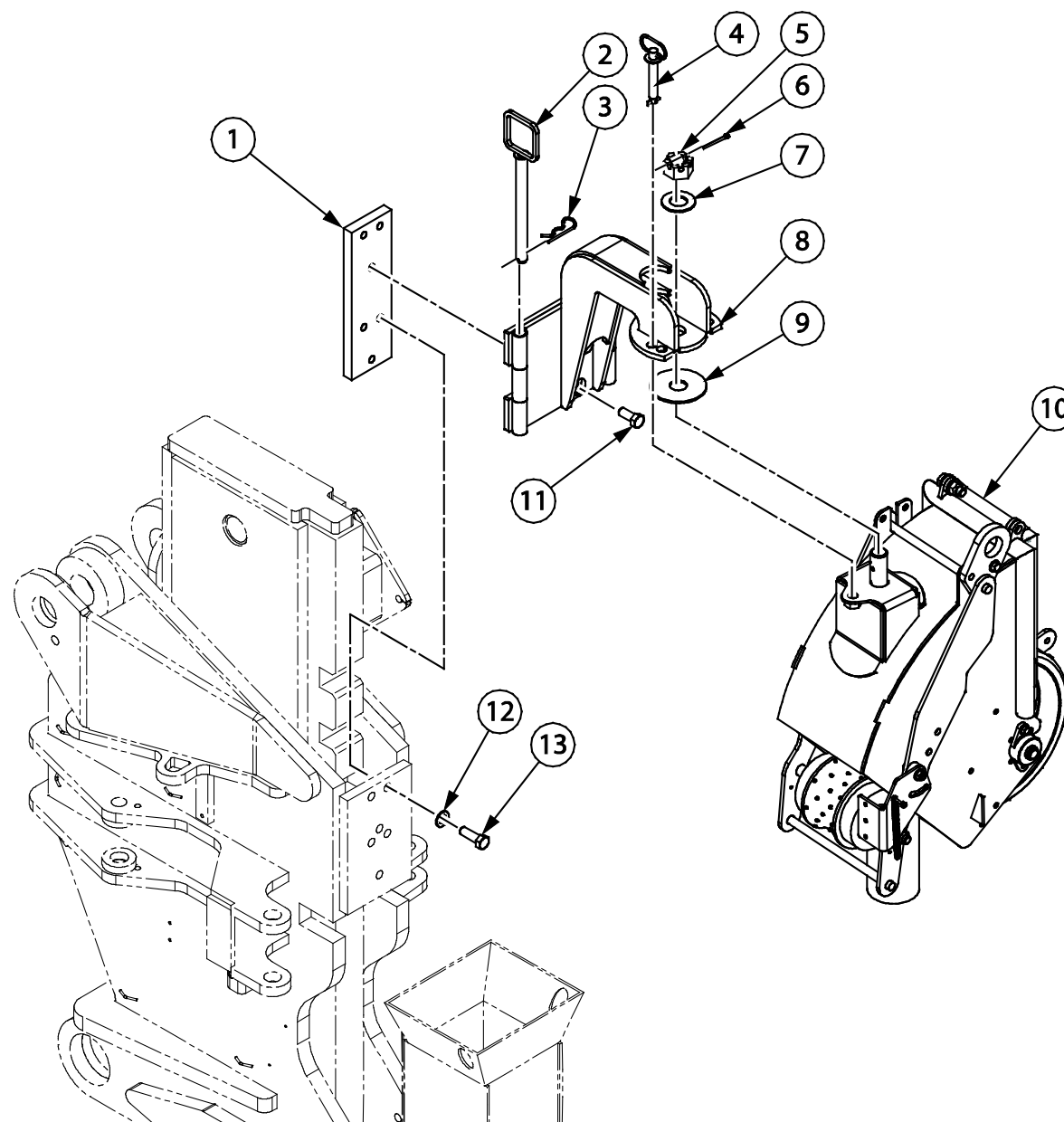
Item	Qty.	P/N	Description
1	2	114304	PIPE
2	2	19963	BEARING
3	1	19933	PIPE
4	1	19937	ROLLER
5	16	80580	WASHER
6	2	80073	HEX HEAD BOLT
7	1	27922	POWER FEEDER ARM
8	8	80515	LOCK NUT
9	1	111956	POWER FEEDER HANDLE
10	4	80517	LOCK NUT
11	6	80582	WASHER
12	1	114303	SHAFT
13	2	80071	HEX HEAD BOLT
14	2	80112	HEX HEAD BOLT
15	2	90073	STRAIGHT ADAPTER
16	1	10375	POWER FEEDER WHEEL MOTOR
17	8	80577	WASHER
18	4	80512	LOCK NUT
19	1	114400	POWER FEEDER SHAFT
20	1	110842	KEYSTOCK
21	1	110821	COUPLING
22	2	12471	WHEEL RIM
23	1	12472	RUBBER WHEEL
24	1	23301	GUIDE
25	2	80514	LOCK NUT
26	4	80579	WASHER
27	4	80578	WASHER

## 3.5 POWER FEEDER ASSEMBLY, 8"

DL400

PARTS MANUAL

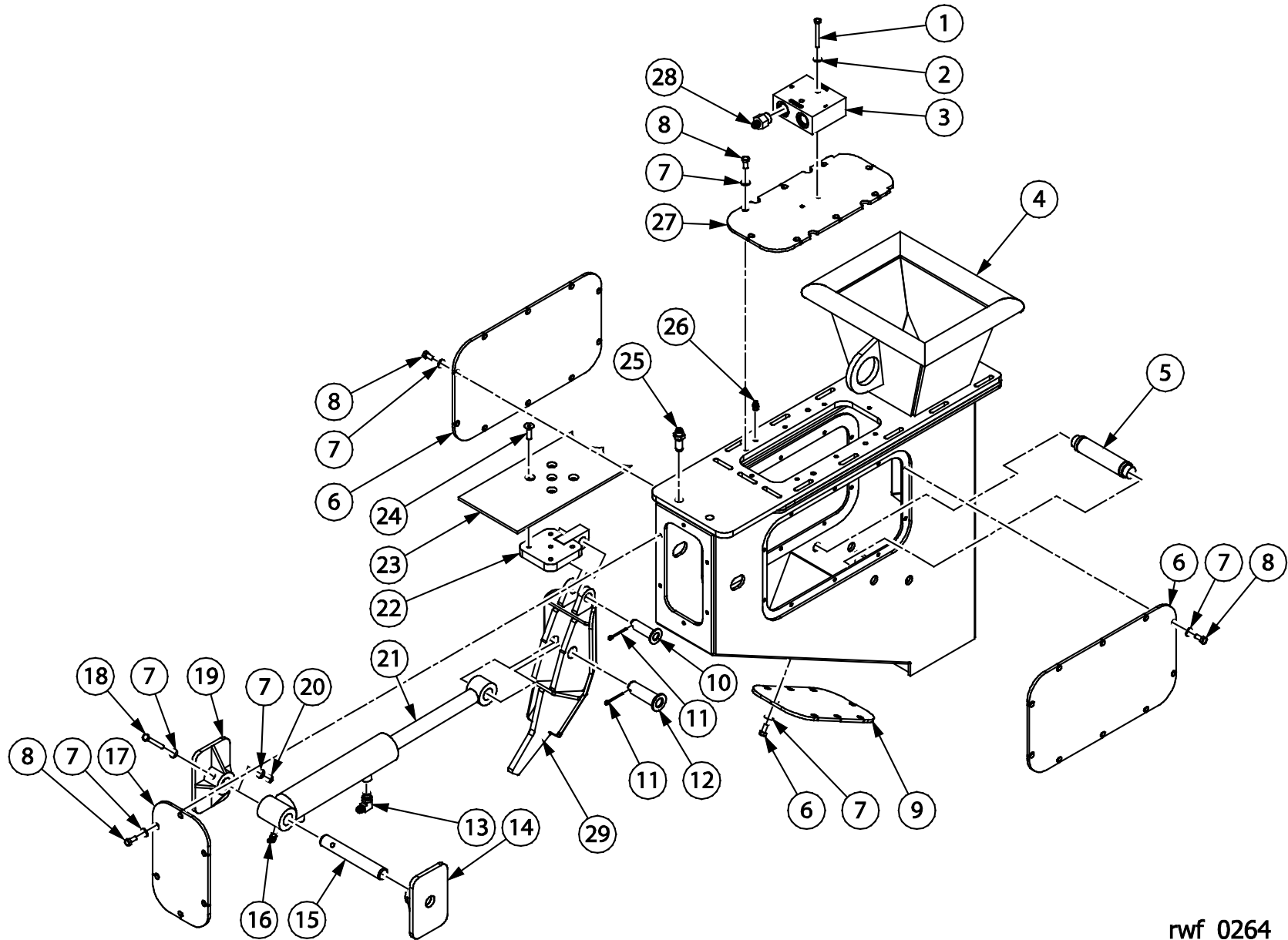
Item	Qty.	P/N	Description
28	4	80029	HEX HEAD BOLT
29	4	80014	HEX HEAD BOLT
30	1	19962	BEARING
31	2	80051	HEX HEAD BOLT
32	2	113590	LIFT LUG
33	4	80072	HEX HEAD BOLT
34	1	82315	SPRING
35	1	114312	COUNTER WHEEL MOUNT
36	2	80500	NUT
37	2	80003	HEX HEAD BOLT
38	1	21642	POWER FEEDER FRAME WELDMENT



rwf\_0257



Item	Qty.	P/N	Description
1	1	140664	POWER FEEDER MOUNT EXTENSION
2	2	111205	HINGE PIN WELDMENT
3	2	12789	HITCH PIN CLIP
4	1	113681	HITCH PIN
5	1	80543	SLOTTED NUT
6	1	80643	COTTER PIN
7	1	80586	WASHER
8	1	28331	UPPER PIVOT ARM
9	1	141737	WASHER
10	1	30959	POWER FEEDER ASSEMBLY, 8" (SEE SECTION 3.5 FOR ASSEMBLY BREAKDOWN)
11	3	80110	HEX HEAD BOLT
12	3	80582	WASHER
13	3	80112	HEX HEAD BOLT



rwf\_0264

Item	Qty.	P/N	Description
1	2	80007	HEX HEAD BOLT
2	2	80576	WASHER
3	1	13161	DOUBLE LOCK VALVE
4	1	24046	4 IN TILE CUTTER FRAME WELDMENT
5	2	124946	ROLLER WELDMENT
6	2	124977	SIDE COVER PLATE
7	44	80577	WASHER
8	42	80014	HEX HEAD BOLT
9	1	124978	BOTTOM PLATE
10	1	124958	KNIFE PIVOT PIN WELDMENT
11	2	80631	COTTER PIN
12	1	124960	CRUSHER PIVOT PIN WELDMENT
13	2	90243	90 DEG ELBOW
14	1	124951	R.H. CYLINDER MOUNT
15	1	124959	CYLINDER PIVOT PIN
16	2	80682	90 DEG GREASE FITTING
17	1	124976	REAR COVER PLATE
18	1	80021	HEX HEAD BOLT
19	1	124950	L.H. CYLINDER MOUNT
20	1	80501	NUT
21	1	124957	CYLINDER
22	1	124943	KNIFE PIVOT BRACKET WELDMENT
23	1	124942	KNIFE PLATE
24	5	80417	SOCKET HEAD FLAT SCREW
25	2	90468	STRAIGHT BULKHEAD ADAPTER
26	4	80680	STRAIGHT GREASE FITTING
27	1	124975	TOP COVER

## 3.7 TILE CUTTER, 4 IN (31981)

DL400

PARTS MANUAL

Item	Qty.	P/N	Description
28	4	90089	STRAIGHT ADAPTER
29	1	23229	4 IN TILE CRUSHER WELDMENT
*	1	28647	TILE CRUSHER HOSE KIT <b>(SEE SECTION 4.1 FOR ASSEMBLY BREAKDOWN)</b>

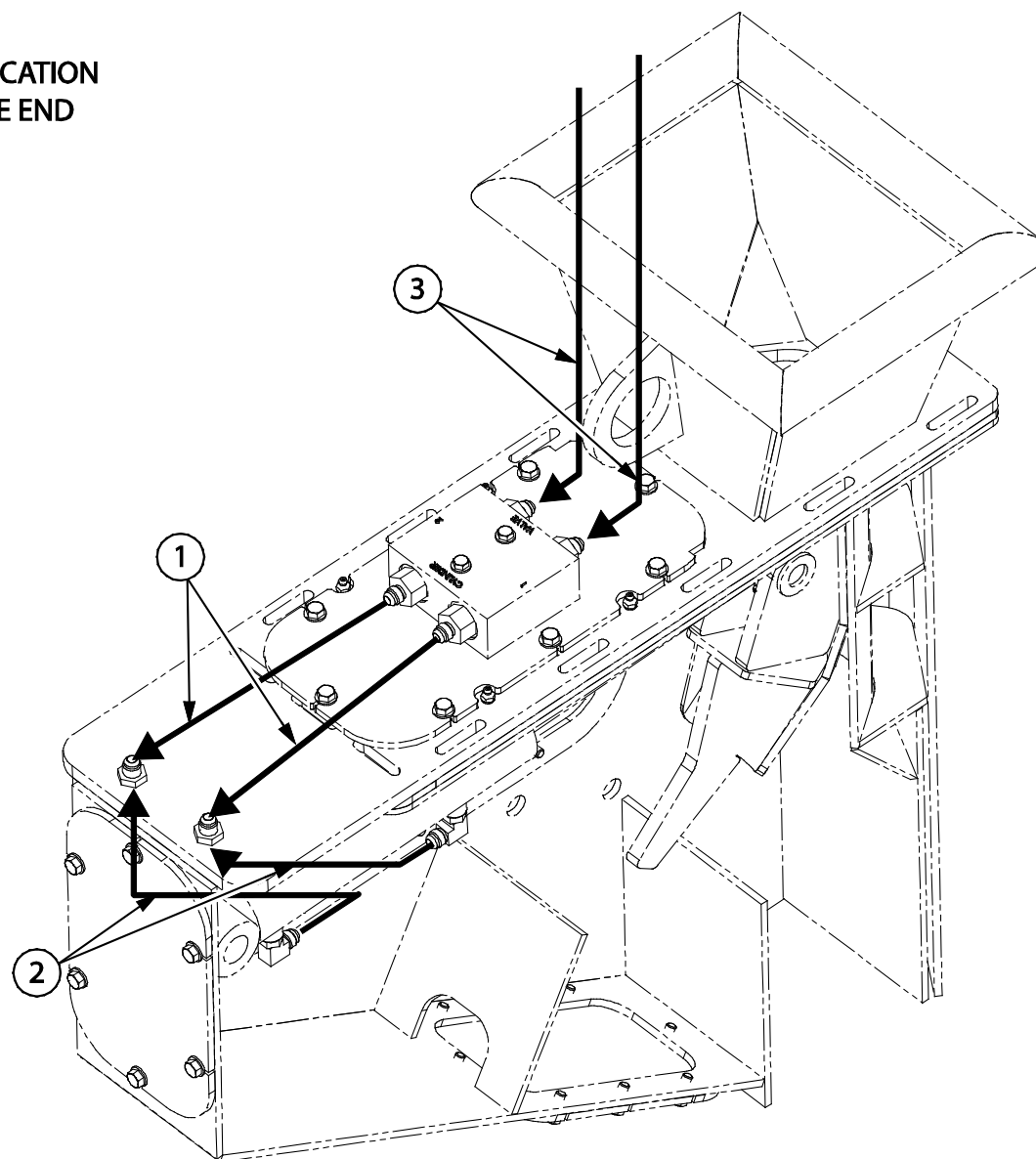
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<b><i>TILE CRUSHER HOSE KIT.....</i></b>	<b><i>4.1</i></b>
--	-------------------



← INDICATES LOCATION  
OF BENT HOSE END



rwf\_0265

#### 4.1 TILE CRUSHER HOSE KIT (28647)

DL400

PARTS MANUAL

HOSE ASSEMBLY LENGTH IS DETERMINED BY THE LAST 3 DIGITS OF THE PART NUMBER IN INCHES.

FOR EXAMPLE: **95000Z123** IS A HOSE WITH A **123 INCH** LENGTH.

Item	Qty.	P/N	Description
1	2	95083Z014	HOSE ASSEMBLY
2	2	95083Z019	HOSE ASSEMBLY
3	2	95063Z064	HOSE ASSEMBLY



# CHAPTER 5: BACKPLATE AND SHANK

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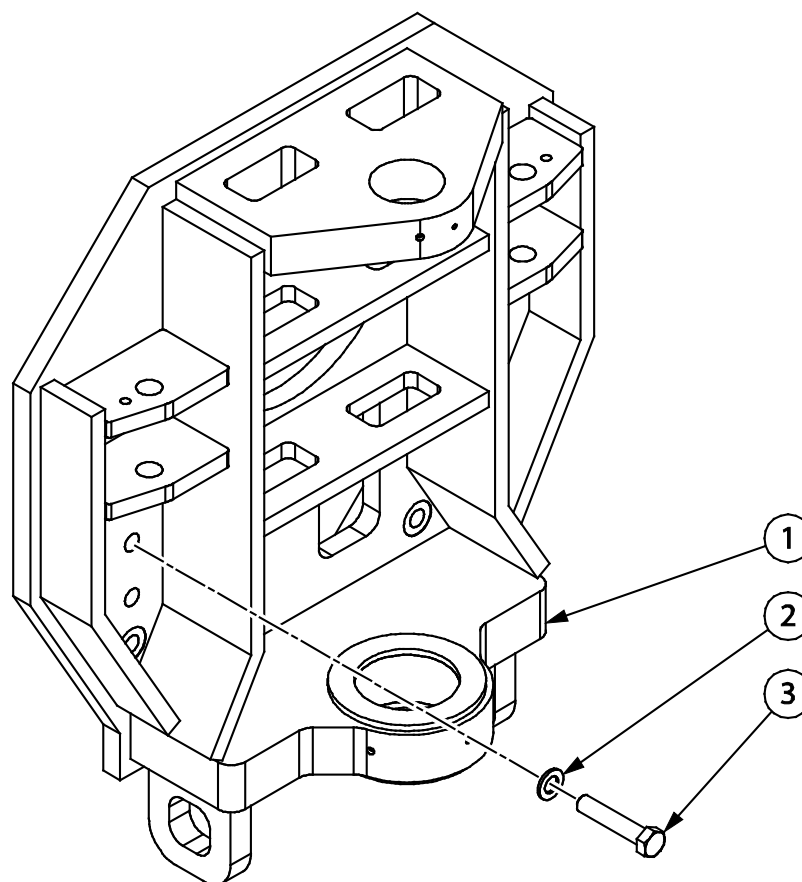
*BACKPLATE ASSEMBLY, MT865B-DL400..... 5.1*

*BLADE ASSEMBLY, 400 ..... 5.2*

*TOOTH, BRON MODIFIED 10 IN..... 5.3*

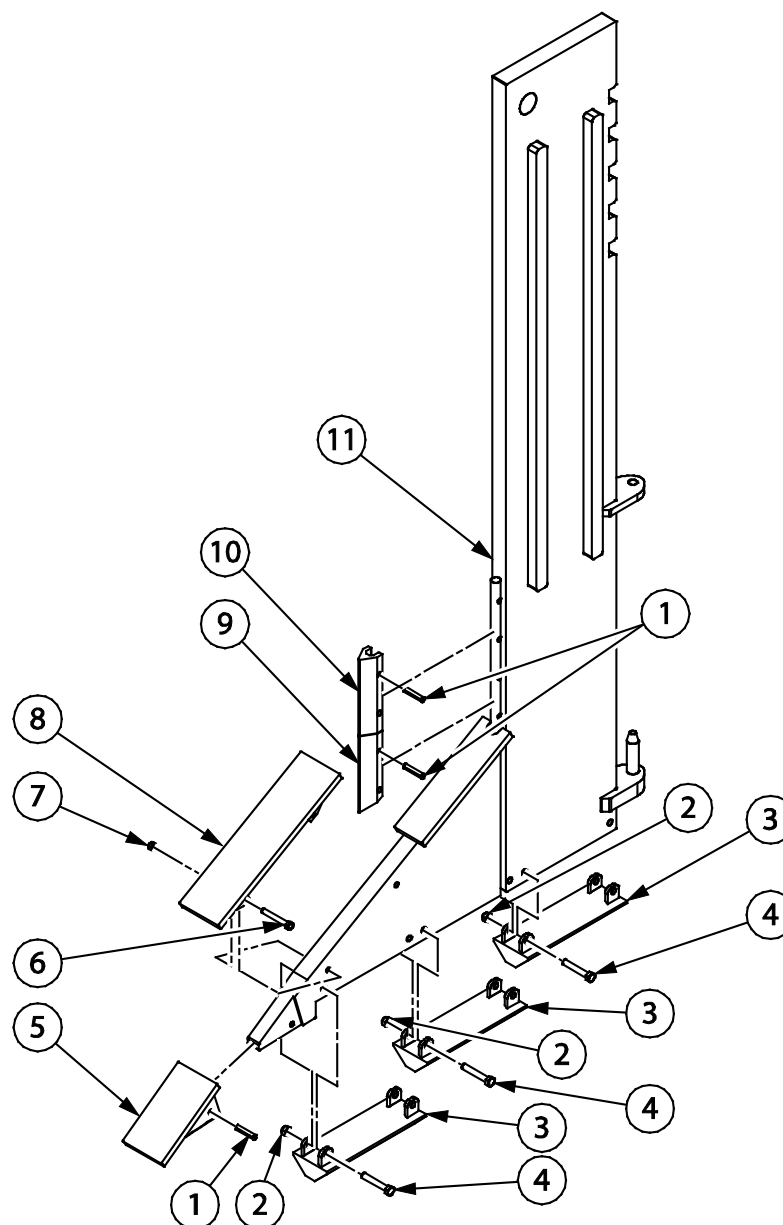
*WEAR GUARD, 10 IN WIDE..... 5.4*





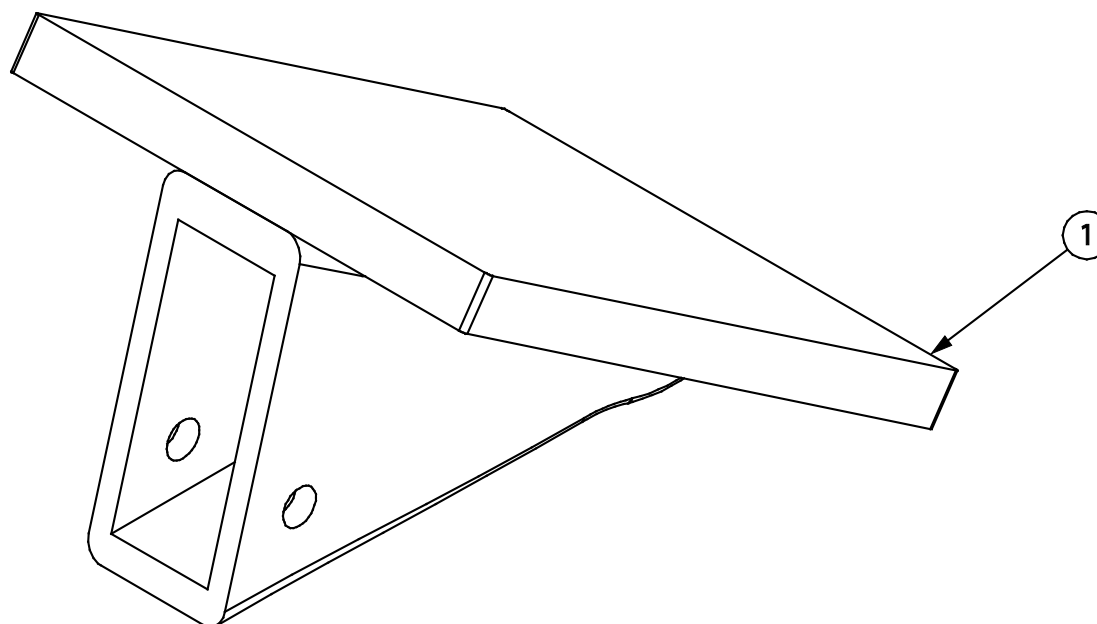
rwf\_0261

Item	Qty.	P/N	Description
1	1	200365	CAT MT865-DL400 BACKPLATE
2	10	73111	WASHER
3	10	71564	HEX HEAD BOLT



rwf\_0260

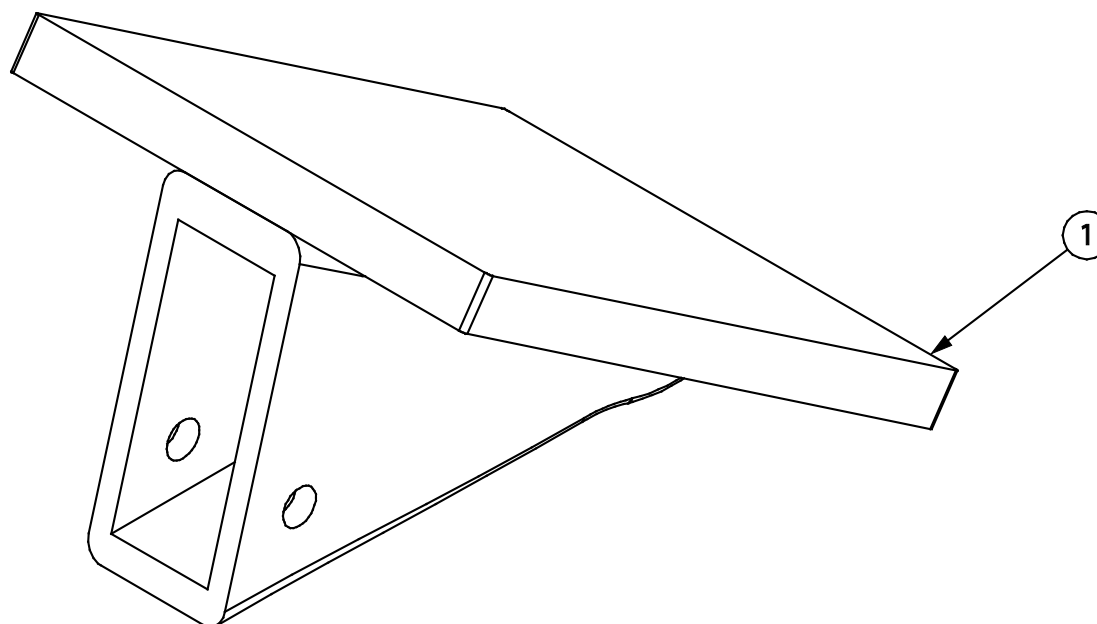
Item	Qty.	P/N	Description
1	5	13987	RETAINER PIN
2	6	80517	LOCK NUT
3	3	141741	BOTTOM WEAR GUARD
4	6	80120	HEX HEAD BOLT
5	1	141768	BRON MODIFIED 7 IN TOOTH
6	2	80101	HEX HEAD BOLT
7	2	80516	LOCK NUT
8	1	141740	7 IN WEAR GUARD
9	1	141747	2 1/2 IN CUTTING EDGE
10	1	13688	2 1/1 IN CUTTING EDGE
11	1	200180	400 BLADE



rwf\_0262

Item	Qty.	P/N	Description
1	1	141770	TOOTH, BRON MODIFIED 10 IN





rwf\_0262

Item	Qty.	P/N	Description
1	1	141738	WEAR GUARD, 10 IN WIDE