

# 485 BACKHOE PARTS MANUAL



**PALADIN**  
LIGHT CONSTRUCTION GROUP

 **BRADCO**

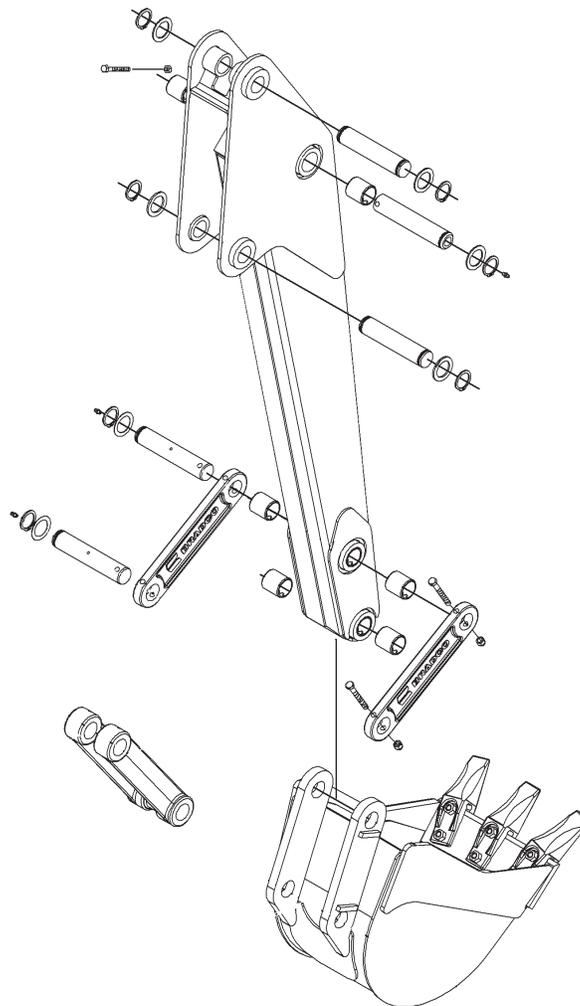
 **FFC**

 **HARLEY**

 **MCMILLEN**

 **SWEEPSTER**

*The Power of Combined Excellence*



**SERIAL NUMBER:** \_\_\_\_\_

**MODEL NUMBER:** \_\_\_\_\_

**Manual Number: PM708**  
**Part Number: 75608**  
**Rev. 2**



# Limited Warranty

Except for the Excluded Products as described below, all new products are warranted to be free from defects in material and/or workmanship during the Warranty Period, in accordance with and subject to the terms and conditions of this Limited Warranty.

1. Excluded Products. The following products are excluded from this Limited Warranty:

(a) Any cable, part that engages with the ground (i.e. sprockets), digging chain, bearing, teeth, tamping and/or demolition head, blade cutting edge, pilot bit, auger teeth and broom brush that either constitutes or is part of a product.

(b) Any product, merchandise or component that, in the opinion of Paladin Light Construction<sup>1</sup>, has been (i) misused; (ii) modified in any unauthorized manner; (iii) altered; (iv) damaged; (v) involved in an accident; or (vi) repaired using parts not obtained through Paladin Light Construction.

2. Warranty Period. The Limited Warranty is provided only to those defects that occur during the Warranty Period, which is the period that begins on the first to occur of: (i) the date of initial purchase by an end-user, (ii) the date the product is first leased or rented, or (iii) the date that is six (6) months after the date of shipment by Paladin Light Construction as evidenced by the invoiced shipment date (the "Commencement Date") and ends on the date that is twenty-four (24) months after the Commencement Date.

3. Terms and Conditions of Limited Warranty. The following terms and conditions apply to the Limited Warranty hereby provided:

(a) Option to Repair or Replace. Paladin Light Construction shall have the option to repair or replace the product.

(b) Timely Repair and Notice. In order to obtain the Limited Warranty, (i) the product must be repaired within thirty (30) days from the date of failure, and (ii) a claim under the warranty must be submitted to Paladin Light Construction in writing within thirty (30) days from the date of repair.

(c) Return of Defective Part or Product. If requested by Paladin Light Construction, the alleged defective part or product shall be shipped to Paladin Light Construction at its manufacturing facility or other location specified by Paladin Light Construction, with freight PRE-PAID by the claimant, to allow Paladin Light Construction to inspect the part or product.

Claims that fail to comply with any of the above terms and conditions shall be denied.

## **LIMITATIONS AND EXCLUSIONS.**

**THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND ANY WARRANTY BASED ON A COURSE OF DEALING OR USAGE OF TRADE.**

**IN NO EVENT SHALL PALADIN LIGHT CONSTRUCTION BE LIABLE FOR CONSEQUENTIAL OR SPECIAL DAMAGES.**

**IN NO EVENT SHALL PALADIN LIGHT CONSTRUCTION BE LIABLE FOR ANY LOSS OR CLAIM IN AN AMOUNT IN EXCESS OF THE PURCHASE PRICE, OR, AT THE OPTION OF PALADIN LIGHT CONSTRUCTION, THE REPAIR OR REPLACEMENT, OF THE PARTICULAR PRODUCT ON WHICH ANY CLAIM OF LOSS OR DAMAGE IS BASED. THIS LIMITATION OF LIABILITY APPLIES IRRESPECTIVE OF WHETHER THE CLAIM IS BASED ON BREACH OF CONTRACT, BREACH OF WARRANTY, NEGLIGENCE OR OTHER CAUSE AND WHETHER THE ALLEGED DEFECT IS DISCOVERABLE OR LATENT.**

<sup>1</sup>Attachment Technologies Inc., a subsidiary of Paladin Brands Holding, Inc. (PBHI) is referred to herein as Paladin Light Construction.

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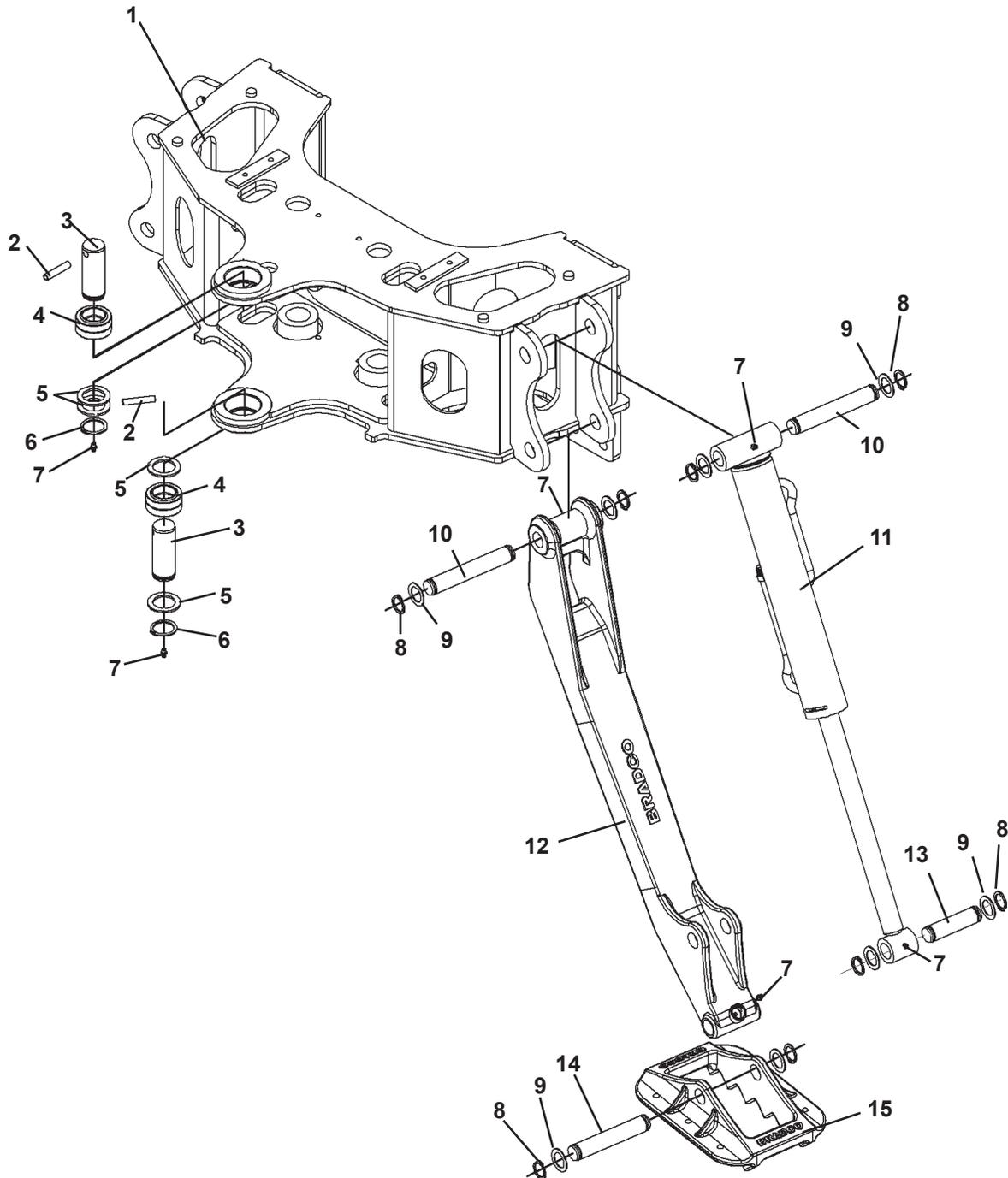
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# MAINFRAME ASSEMBLY

ASSEMBLY #105300

DIAGRAM 1 OF 2



# MAINFRAME ASSEMBLY

ASSEMBLY #105300

LIST 1 OF 2

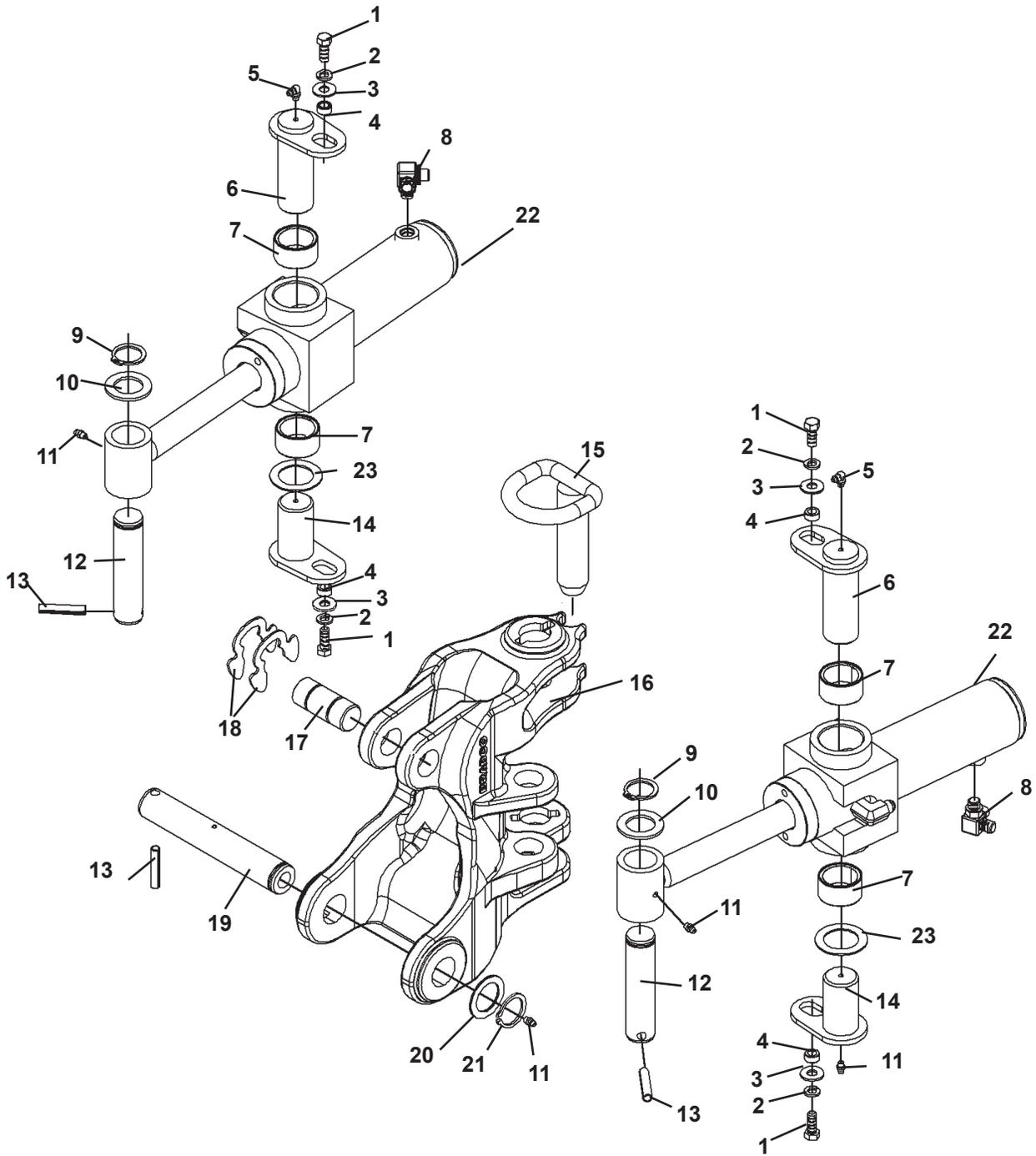
<u>ITEM</u>	<u>REQ'D</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	1	105334	Mainframe
2	2	10035	Roll Pin
3	2	105377	Mainframe Pivot Pin 1.38" x 3.75"
4	2	6615	Self-Aligning Bushing
5	Varies	6623	Thrust Washer 1.38" x .031"
	Varies	64724	Thrust Washer 1.38" x .090"
	Varies	64725	Thrust Washer 1.38" x .125"
6	2	1650	Snap Ring
7	10	6616	Grease Fitting
8	16	6612	Snap Ring
9	Varies	57462	Thrust Washer 1.00" x .06
10	4	105367	Stabilizer Pivot Pin 1.00" x 6.31"
11	2	103649	Stabilizer Cylinder Assembly
	-	45478	Replacement Cylinder Seal Kit
12	2	102621	Stabilizer Arm
13	2	89978	Pivot Pin 1.00" x 3.25"
14	2	104459	Stabilizer Pad Pivot Pin 1.00" x 4.98"
15	2	102619	Stabilizer Pad (Optional Bolt-On Rubber Pad Kit #103676)

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# MAINFRAME ASSEMBLY

ASSEMBLY #105300

DIAGRAM 2 OF 2



# MAINFRAME ASSEMBLY

ASSEMBLY #105300

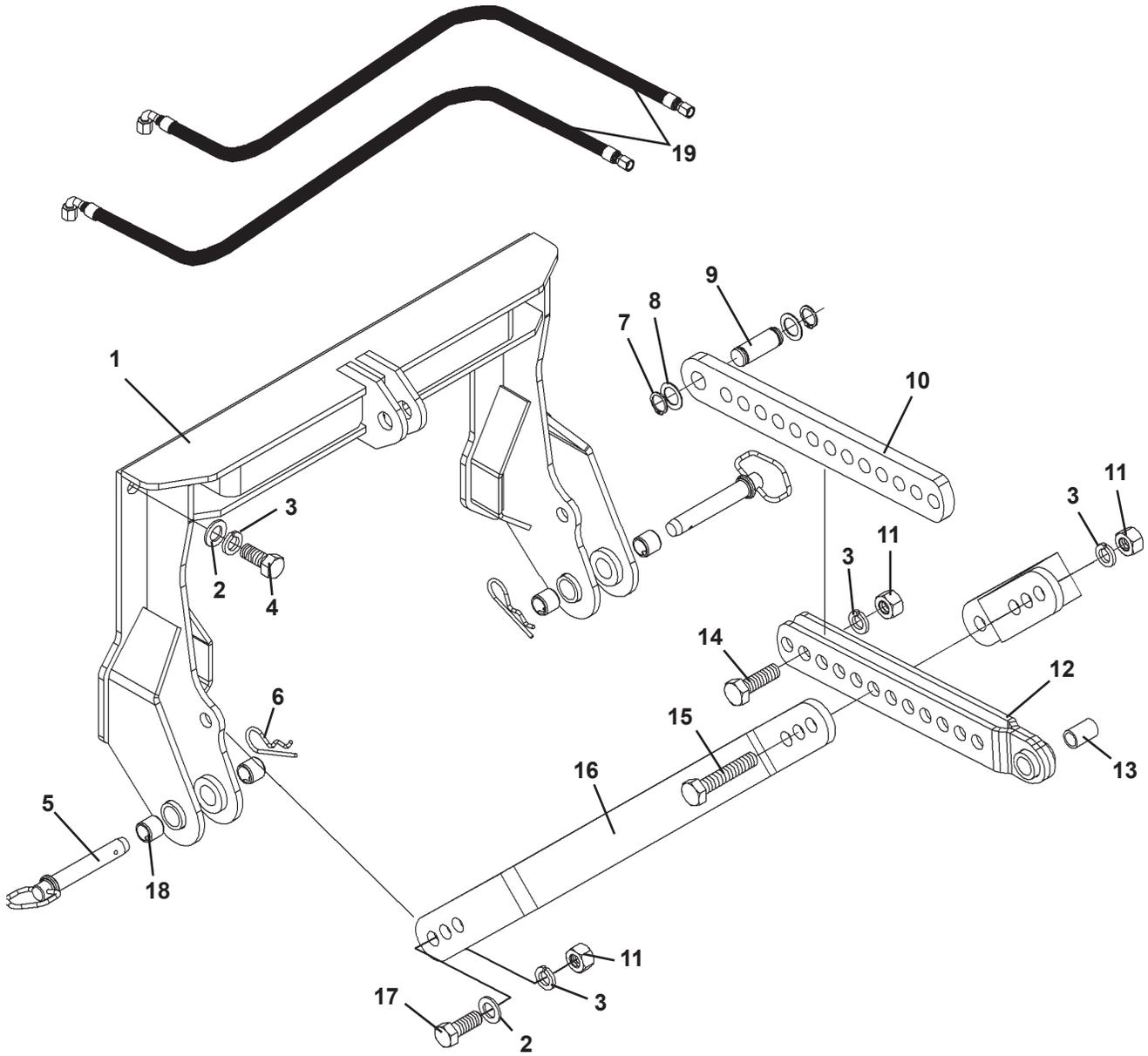
LIST 2 OF 2

<u>ITEM</u>	<u>REQ'D</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	4	1043	.38" UNC X 1.00" Hex Capscrew
2	4	1503	.38" Lock Washer
3	4	1514	.38" Flat Washer
4	4	81807	Spacer Tube
5	2	53031	90° Grease Fitting
6	2	105362	Cylinder Pivot Pin - Top 1.50" x 4.50"
7	4	82441	Needle Bearing
8	2	30164	Special Tee 6MBo-6MJ-6MJ
9	2	1652	Snap Ring
10	Varies	57693	Thrust Washer 1.25" x .078"
	Varies	64727	Thrust Washer 1.25" x .123"
	Varies	64728	Thrust Washer 1.25" x .031"
11	5	6616	Grease Fitting
12	2	104463	Cylinder Pin 1.25" x 5.00"
13	3	10035	Roll Pin
14	2	105365	Cylinder Pivot Pin - Bottom 1.50" x 3.12"
15	1	87363	Swing Lock Pin
16	1	105748	Swing Post
17	1	104466	Boom Cylinder Pin 1.25" x 3.00"
18	2	1976	Rotor Clip
19	1	105368	Boom Pivot Pin 1.38" x 8.19"
20	Varies	6623	Thrust Washer 1.38" x .031"
	Varies	64724	Thrust Washer 1.38" x .090"
	Varies	64725	Thrust Washer 1.38" x .125"
21	1	1650	Snap Ring
22	2	105328	Swing Cylinder Assembly (Includes (4) 86564 Bushings & (4) Needle Bearings)
	-	45703	Replacement Cylinder Seal Kit
23	2	68057	Thrust Washer, 1.50" x .071"

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# 3-POINT HITCH ADAPTER KIT

ASSEMBLY #108320



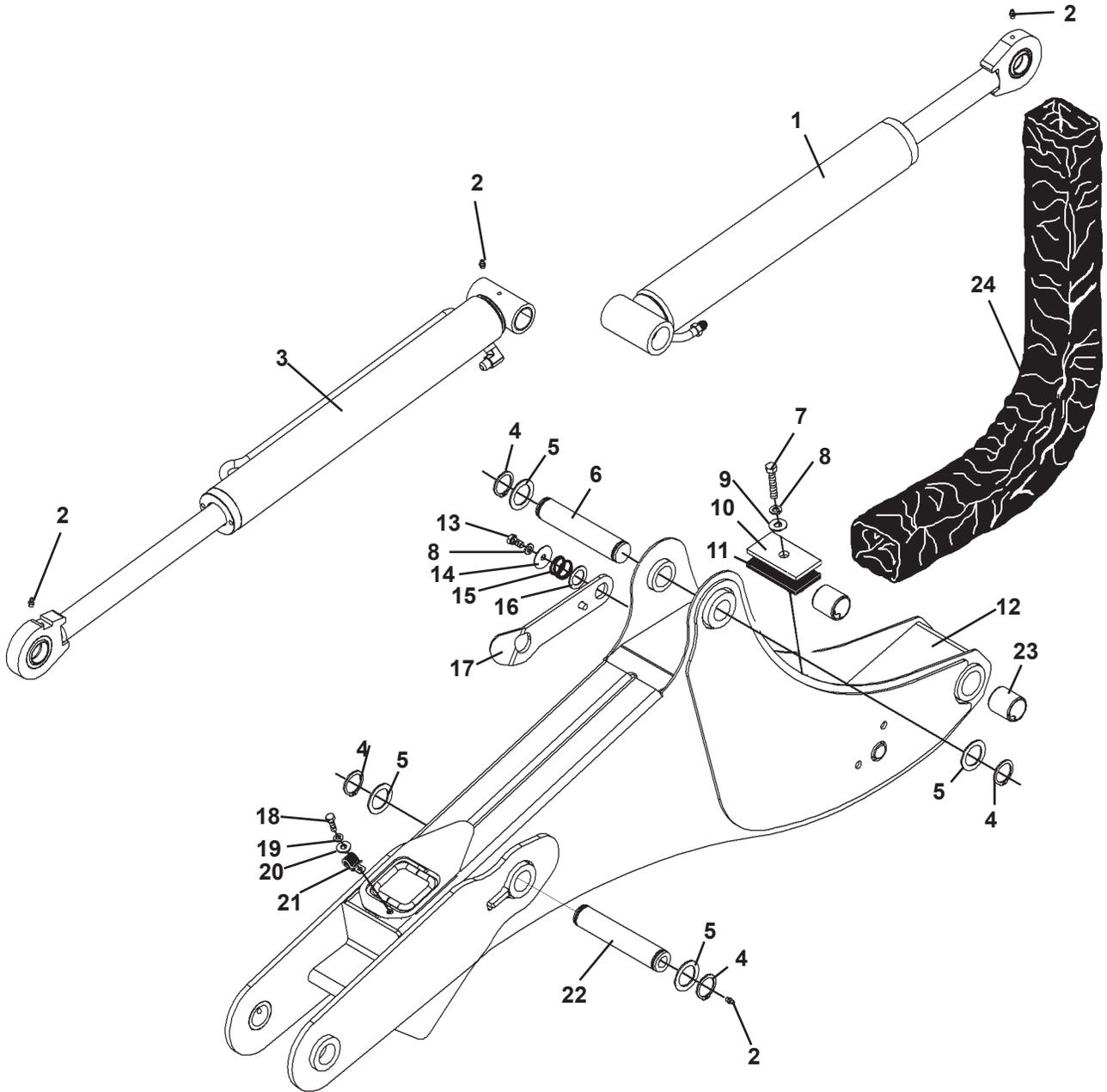
# 3-POINT HITCH ADAPTER KIT

ASSEMBLY #108320

<u>ITEM</u>	<u>REQ'D</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	1	107615	3-Point Mount
2	10	1649	.75" Hard Flat Washer
3	12	1507	.75" Lock Washer
4	8	1138	.75" UNC X 1.75" Hex Capscrew
5	2	1987	.875" Hitch Pin - Cat. I Hitch (Includes Item #6)
	2	1988	1.125" Hitch Pin - Cat. II Hitch (Includes Item #6)
6	-	1985	Hair Pin - Cat. I Hitch
	-	1991	Hair Pin - Cat. II
7	2	6612	Snap Ring
8	2	57462	Thrust Washer
9	1	86620	Pivot Pin
10	1	107101	Single Link
11	4	1534	.75" UNC Lock Nut
12	1	107548	Double Link
13	1	87984	Spacer Tube (Remove for Cat. II Hitch)
14	1	1141	.75" UNC X 2.50" Hex Capscrew
15	1	1147	.75" UNC X 4.00" Hex Capscrew
16	2	107549	Hitch Arm Lock
17	2	1139	.75" UNC X 2.00" Hex Capscrew
18	4	106204	Bushing (Remove for Cat. II Hitch)
19	2	38490	Hose .50" X 40" 8MBo-8FJX 90°

# BOOM & DIPPER ASSEMBLY

ASSEMBLY #105301



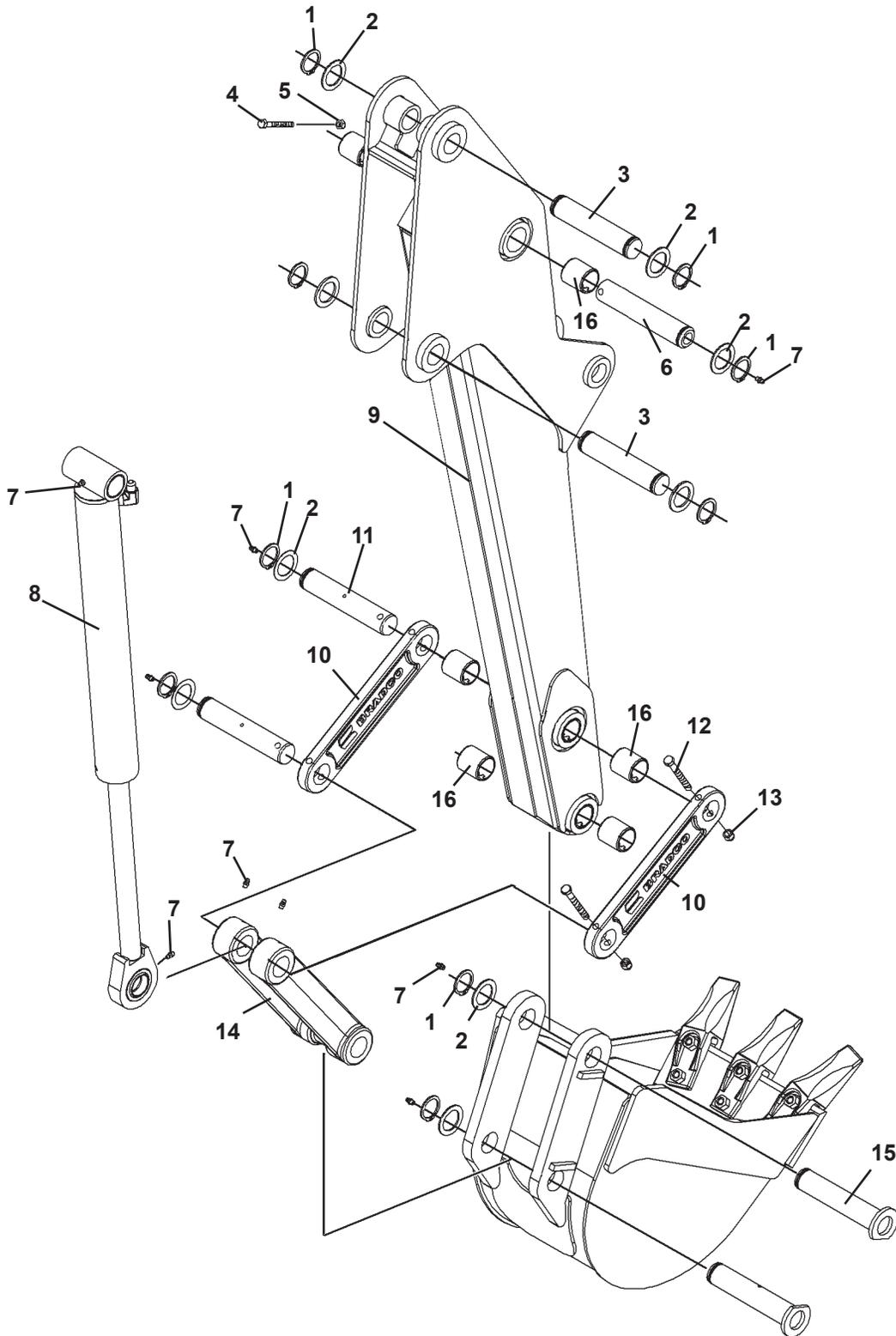
# BOOM & DIPPER ASSEMBLY

ASSEMBLY #105301

<u>ITEM</u>	<u>REQ'D</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	1	105322	Boom Cylinder Assembly (Includes (1) 62523 Bushing and (2) 85772 Bushings)
	-	45618	Replacement Cylinder Seal Kit
2	4	6616	Grease Fitting
3	1	105314	Dipper Cylinder Assembly (Includes (2) 85772 Bushings and (1) 6615 Bearing)
	-	45738	Replacement Cylinder Seal Kit
4	4	1650	Snap Ring
5	Varies	6623	Thrust Washer 1.38" x .031"
	Varies	64724	Thrust Washer 1.38" x .090"
	Varies	64725	Thrust Washer 1.38" x .125"
6	1	105369	Dipper Cylinder Pin 1.38" x 6.18"
7	1	1046	.38" UNC X 1.75" Hex Capscrew
8	2	1503	.38" Lock Washer
9	1	1514	.38" Flat Washer
10	1	81881	Hose Clamp Plate
11	1	81882	Rubber Spacer
12	1	105250	Boom ( Includes (2) 81610 Bushings)
13	1	1042	.38" UNC X .75" Hex Capscrew
14	1	22298	Special Washer
15	1	105245	Compression Spring
16	1	57462	Thrust Washer 1.00"
17	1	105278	Boom Lock
18	1	1022	.31" UNC X 1.00" Hex Capscrew
19	1	1502	.31" Lock Washer
20	1	1513	.31" Flat Washer
21	1	82859	Double Hose Clamp
22	1	105372	Boom Cylinder Pin 1.38" x 7.06"
23	-	81610	Replacement Bushing (Included in Boom)
24	1	34078	Hose Sock 4" x 40"

# BOOM & DIPPER ASSEMBLY

ASSEMBLY #105301



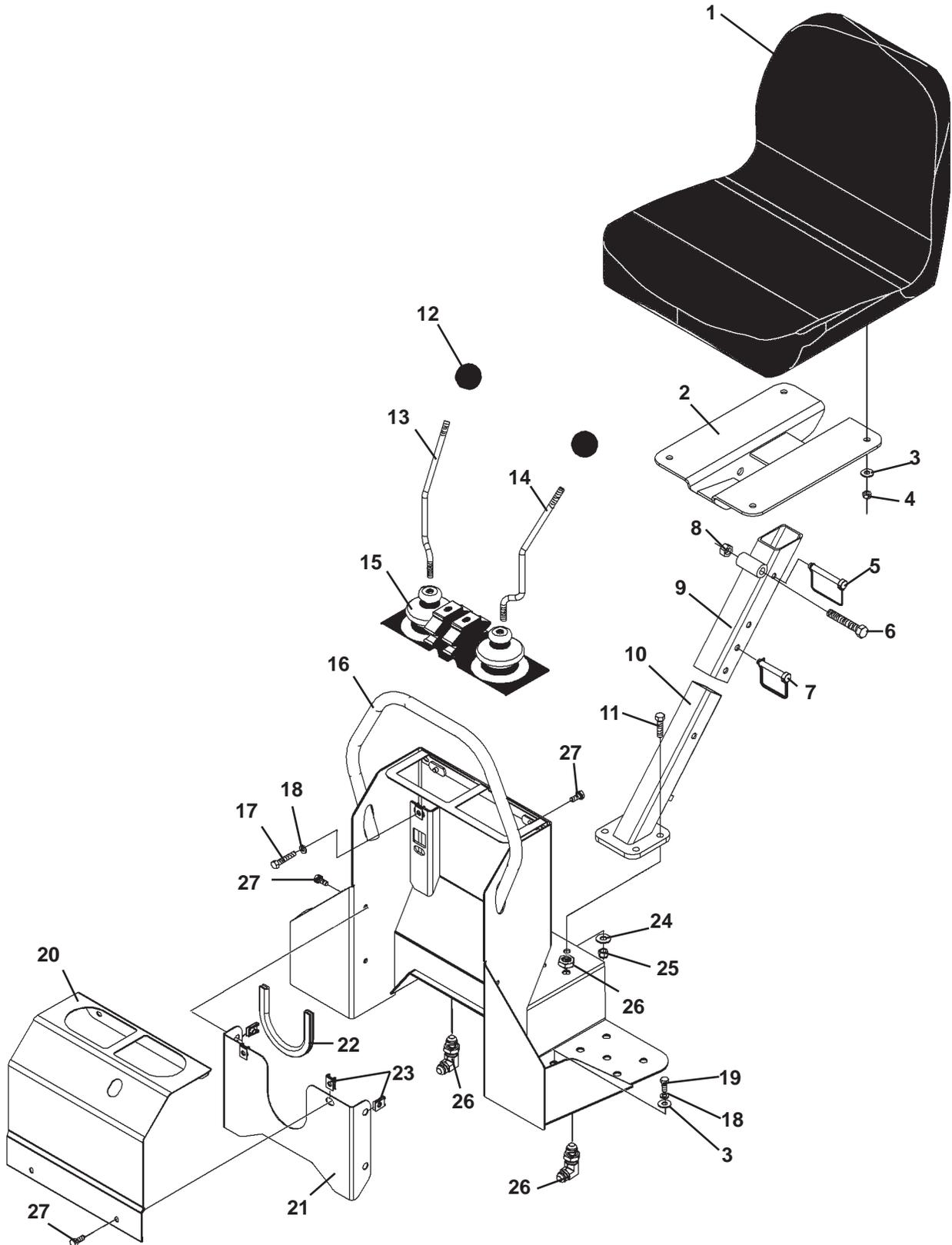
# BOOM & DIPPER ASSEMBLY

ASSEMBLY #105301

<u>ITEM</u>	<u>REQ'D</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	9	1650	Snap Ring
2	Varies	6623	Thrust Washer 1.38" x .031"
	Varies	64724	Thrust Washer 1.38" x .090"
	Varies	64725	Thrust Washer 1.38" x .125"
3	2	105370	Dipper Cylinder Pin 1.38" x 6.31"
4	1	1029	.31" UNC X 2.75" Hex Capscrew
5	1	1753	.31" UNC Nylock Nut
6	1	105371	Boom Pivot Pin 1.38" x 7.38"
7	10	6616	Grease Fitting
8	1	105306	Bucket Cylinder Assembly (Includes (2) 85772 Bushings and (1) 6615 Bearing)
	-	45478	Replacement Cylinder Seal Kit
9	1	105267	Dipper (Includes (6) 81610 Bushings)
10	2	105391	Dipper Link
11	2	105373	Dipper Link Pivot Pin 1.38" x 7.13"
12	2	1052	.38" UNC X 3.25" Hex Capscrew
13	2	1536	.38" UNC Nylock Nut
14	1	105390	Bucket Link
15	2	105375	Bucket Pivot Pin 1.38" x 7.13"
16	-	81610	Replacement Bushing (Included in Dipper)

# CONSOLE ASSEMBLY

ASSEMBLY #105302



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# CONSOLE ASSEMBLY

ASSEMBLY #105302

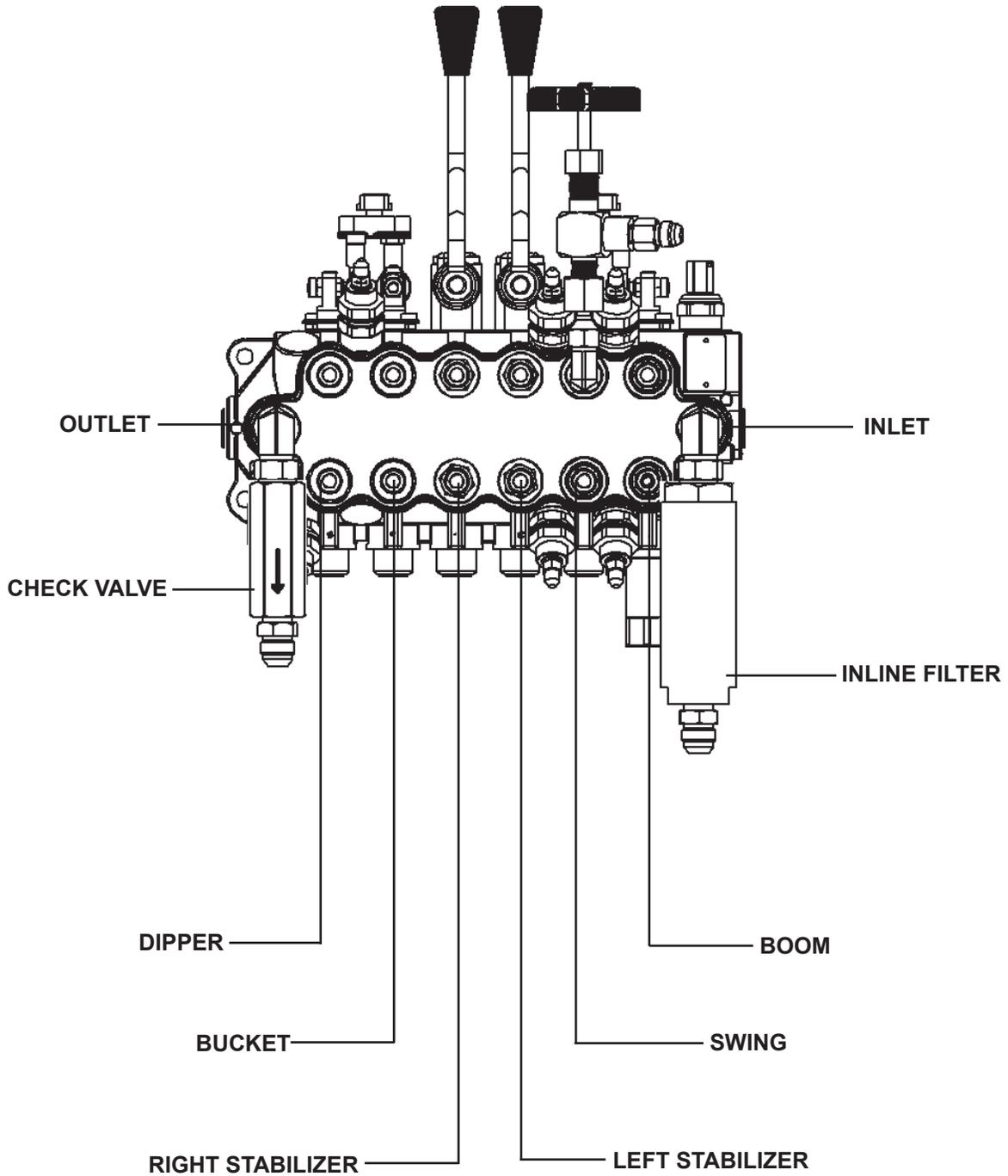
<u>ITEM</u>	<u>REQ'D</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	1	105988	Seat
2	1	107438	Seat Mounting
3	8	1513	.31" Lock Washer
4	4	1753	.31" UNC Nylock Nut
5	1	107439	Safety Snap Pin (3" Long)
6	1	1096	.50" UNC X 3.00" Hex Capscrew
7	1	105247	Safety Snap Pin (2.50" Long)
8	1	1841	.50" UNC Deformed Lock Nut
9	1	105241	Seat Mounting Tube
10	1	105240	Seat Pedestal
11	4	1044	.38" UNC X 1.25" Hex Capscrew
12	2	85838	Ball Knob
13	1	87952	Right Control Handle
14	1	87951	Left Control Handle
15	1	83235	Rubber Control Lever Boot
16	1	105347	Console
17	3	1025	.31" UNC X 1.75" Hex Capscrew
18	7	1502	.31" Lock Washer
19	4	1021	.31" UNC X .75" Hex Capscrew
20	1	105237	Console Cover
21	1	105238	Console Hose Cover
22	1	34128	Rubber Edging
23	9	1756	.31" UNC Spring Nut
24	4	1514	.38" Flat Washer
25	4	1536	.38" UNC Nylock Nut
26	2	3382	90° Bulkhead Fitting 8MJ-8MJ (Includes Nut)
27	8	1930	.31" UNC X .75" Flangehead Capscrew

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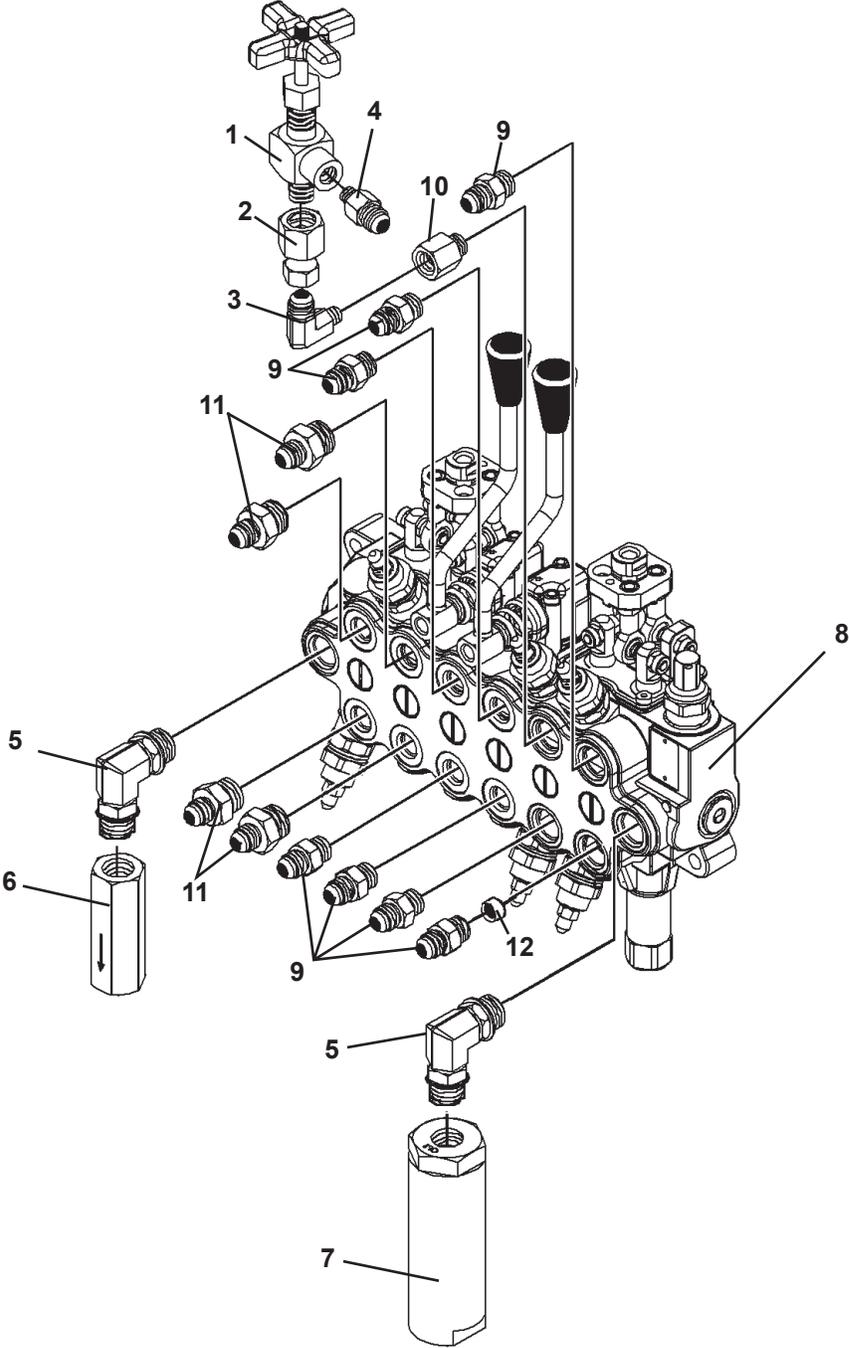
# VALVE ASSEMBLY

ASSEMBLY #2264



# VALVE ASSEMBLY

ASSEMBLY #2264



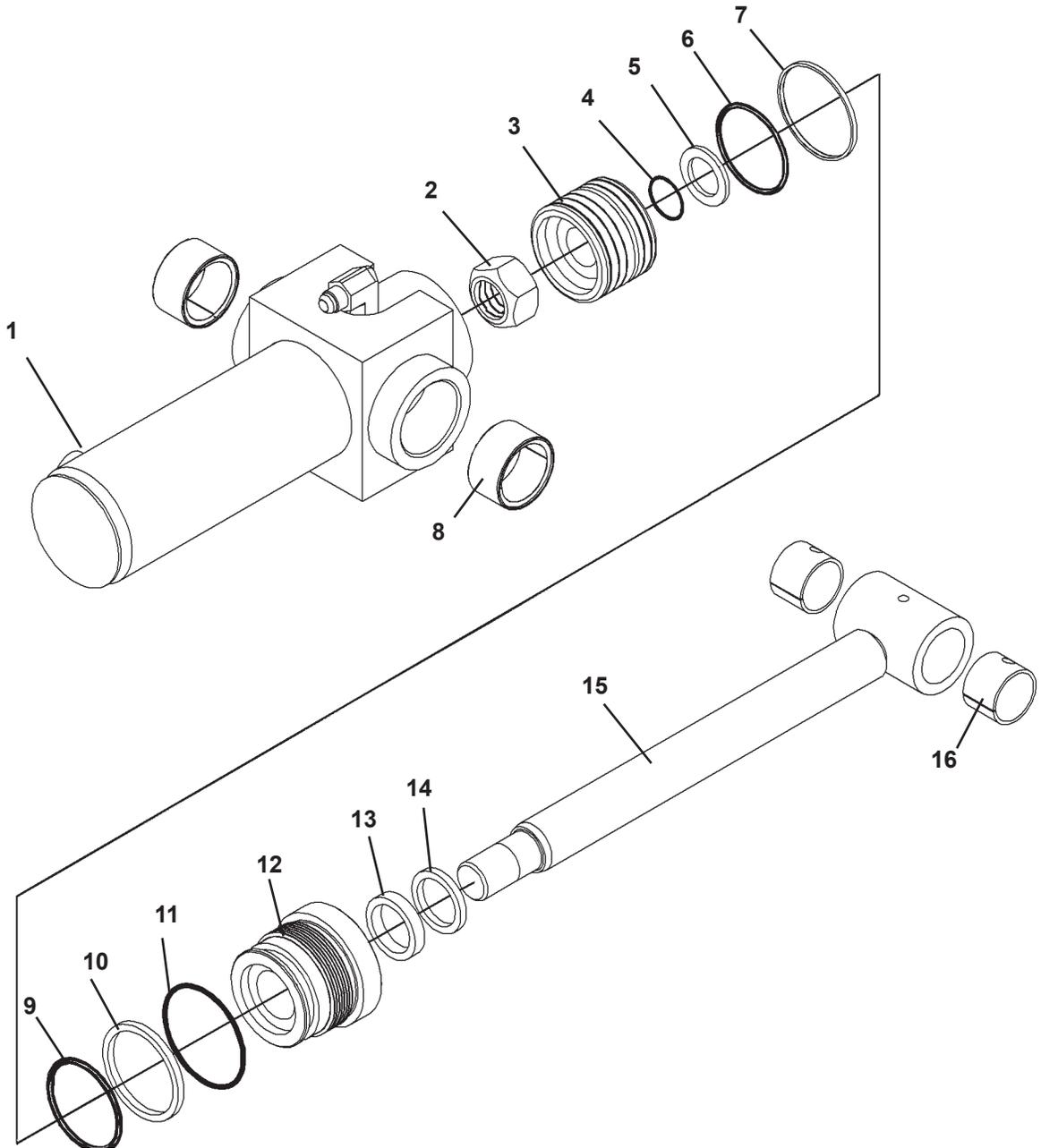
# VALVE ASSEMBLY

ASSEMBLY #2264

<u>ITEM</u>	<u>REQ'D</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	1	3185	Needle Valve
2	1	30187	Straight Connector 4FP-6FJX
3	1	3001	90° Elbow 4MP-6MJ
4	1	3137	Straight Connector 6MJ-4MP
5	2	30193	90° Elbow 8MBo-8MBo
6	1	107636	Check Valve (Hex) (Not Included in Valve Assembly #2264)
7	1	107635	Inline Filter (Round) (Not Included in Valve Assembly #2264)
8	1	105303	Valve - Bucher Monoblock (Includes Items #9 - #12)
9	7	3457	Replacement Connector 6MBo-6MJ (Included with Valve)
10	1	3461	Replacement Connector 6MBo-4FP (Included with Valve)
11	4	3269	Replacement Connector 8MBo-6MJ (Included with Valve)
12	1	45967	Restrictor Orifice (Included with Valve)

# SWING CYLINDER ASSEMBLY

ASSEMBLY #105328



# SWING CYLINDER ASSEMBLY

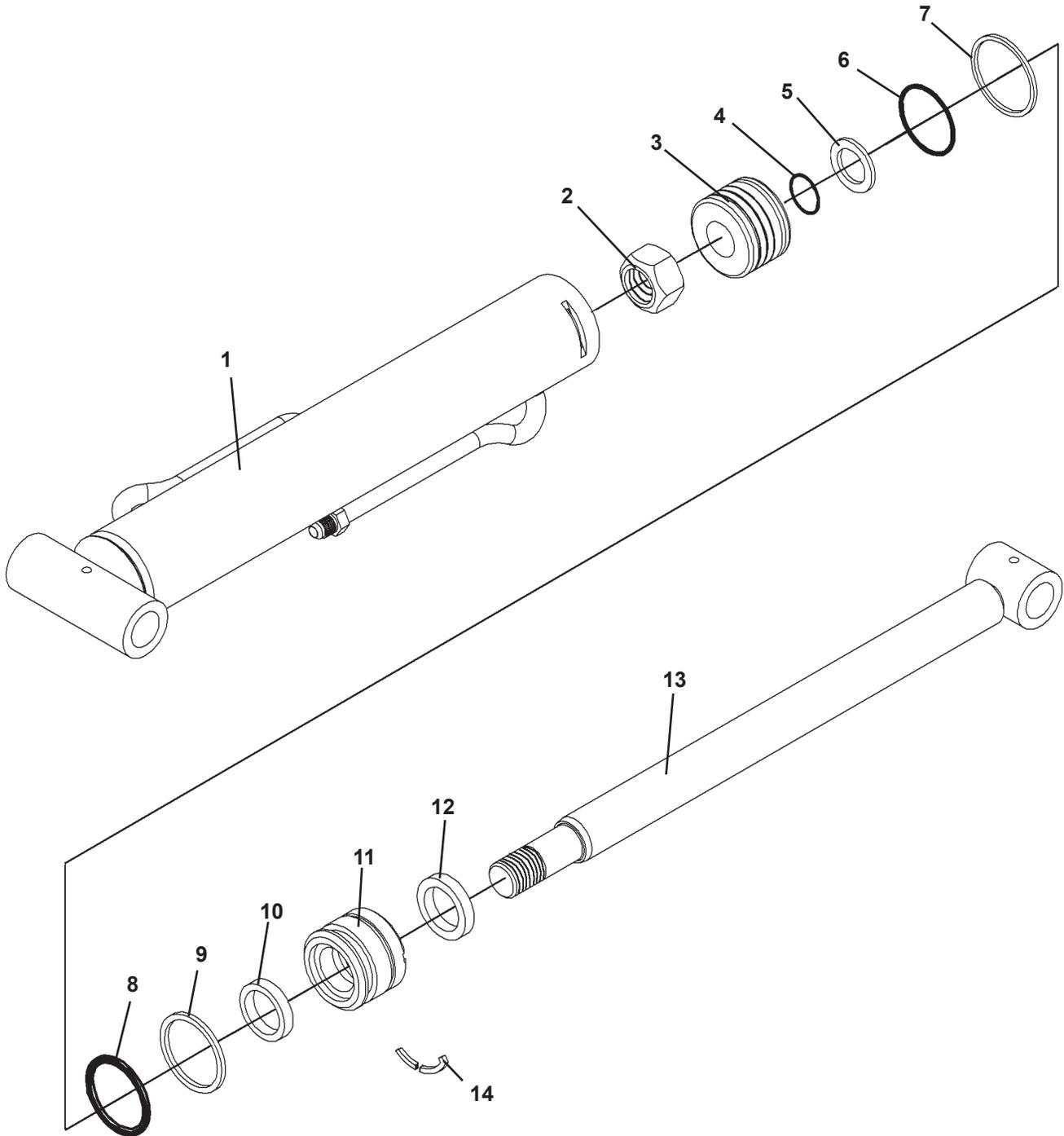
ASSEMBLY #105328

<u>ITEM</u>	<u>REQ'D</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	1	105329	Cylinder Tube
2	1	1483	Hex Nut (Torque to 230-325 ft. lbs.)
3	1	105333	Piston
4	1	4641*	O'Ring
5	1	5421	Washer
6	1	4645*	O'Ring
7	1	4644*	Piston Ring
8	2	82441	Needle Bearing
9	1	4509*	O'Ring
10	1	4510*	Back-Up Washer
11	1	45250*	O'Ring
12	1	77458	Gland
13	1	45219*	Poly-Pak Seal
14	1	45389*	Rod Wiper
15	1	105331	Cylinder Rod
16	2	86564*	Bushing

**NOTE: Seal Kit #45617 includes all parts marked with an asterisk(\*). Parts are not sold separately.**

# STABILIZER CYLINDER ASSEMBLY

ASSEMBLY #103649



# STABILIZER CYLINDER ASSEMBLY

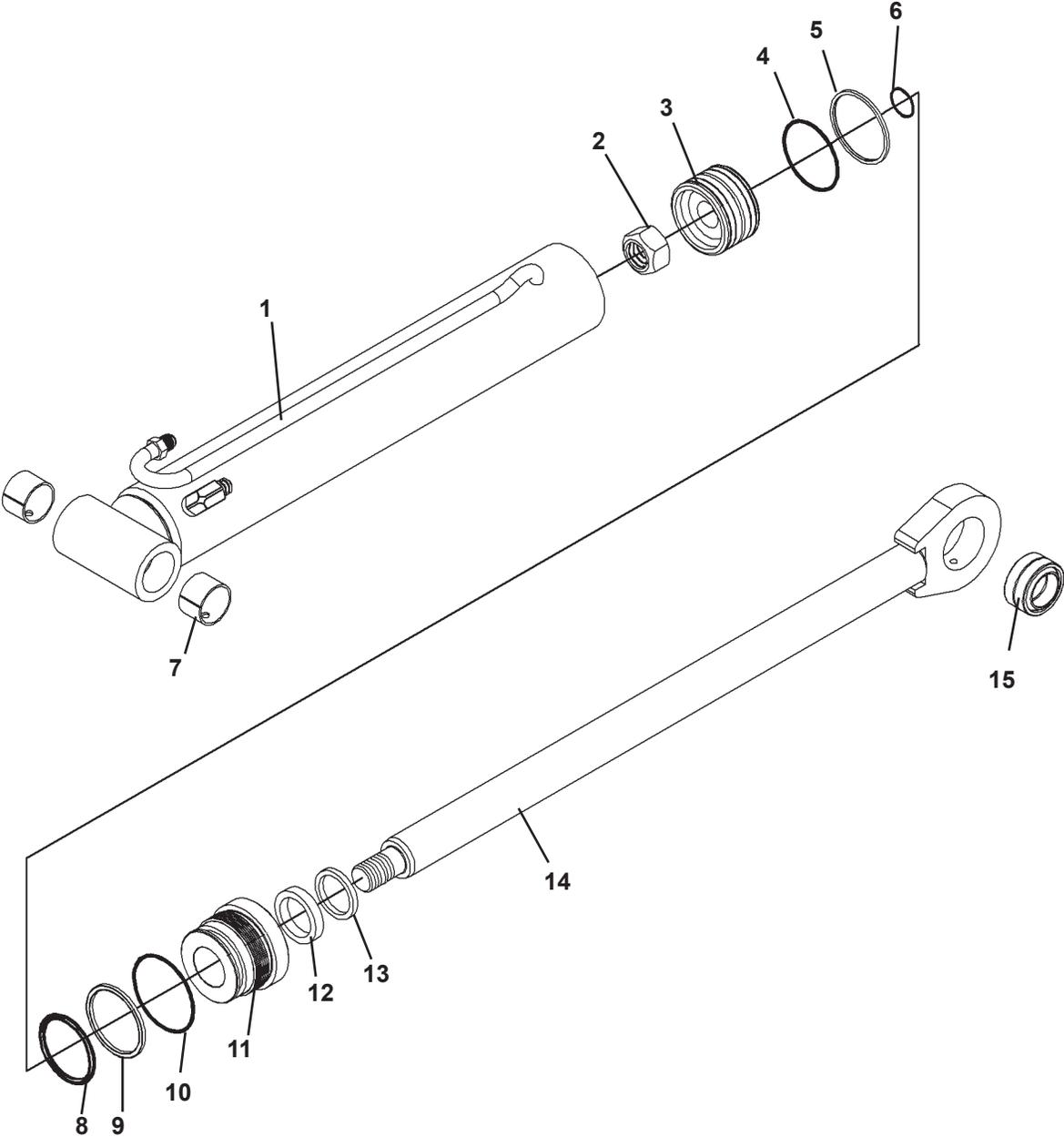
ASSEMBLY #103649

<u>ITEM</u>	<u>REQ'D</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	1	103651	Cylinder Tube
2	1	1483	Hex Nut (Torque to 230-325 ft. lbs.)
3	1	106372	Piston
4	1	4641*	O'Ring
5	1	5421	Washer
6	1	45443*	O'Ring
7	1	45701*	Piston Ring
8	1	45699*	O'Ring
9	1	45700*	Back-Up Washer
10	1	45219*	Poly-Pak Seal
11	1	86508	Gland
12	1	4974*	Rod Wiper
13	1	103650	Cylinder Rod
14	1	7165*	Gland Retainer Rod

**NOTE: Seal Kit #45478 includes all parts marked with an asterisk(\*). Parts are not sold separately.**

# BOOM CYLINDER ASSEMBLY

ASSEMBLY #105322



# BOOM CYLINDER ASSEMBLY

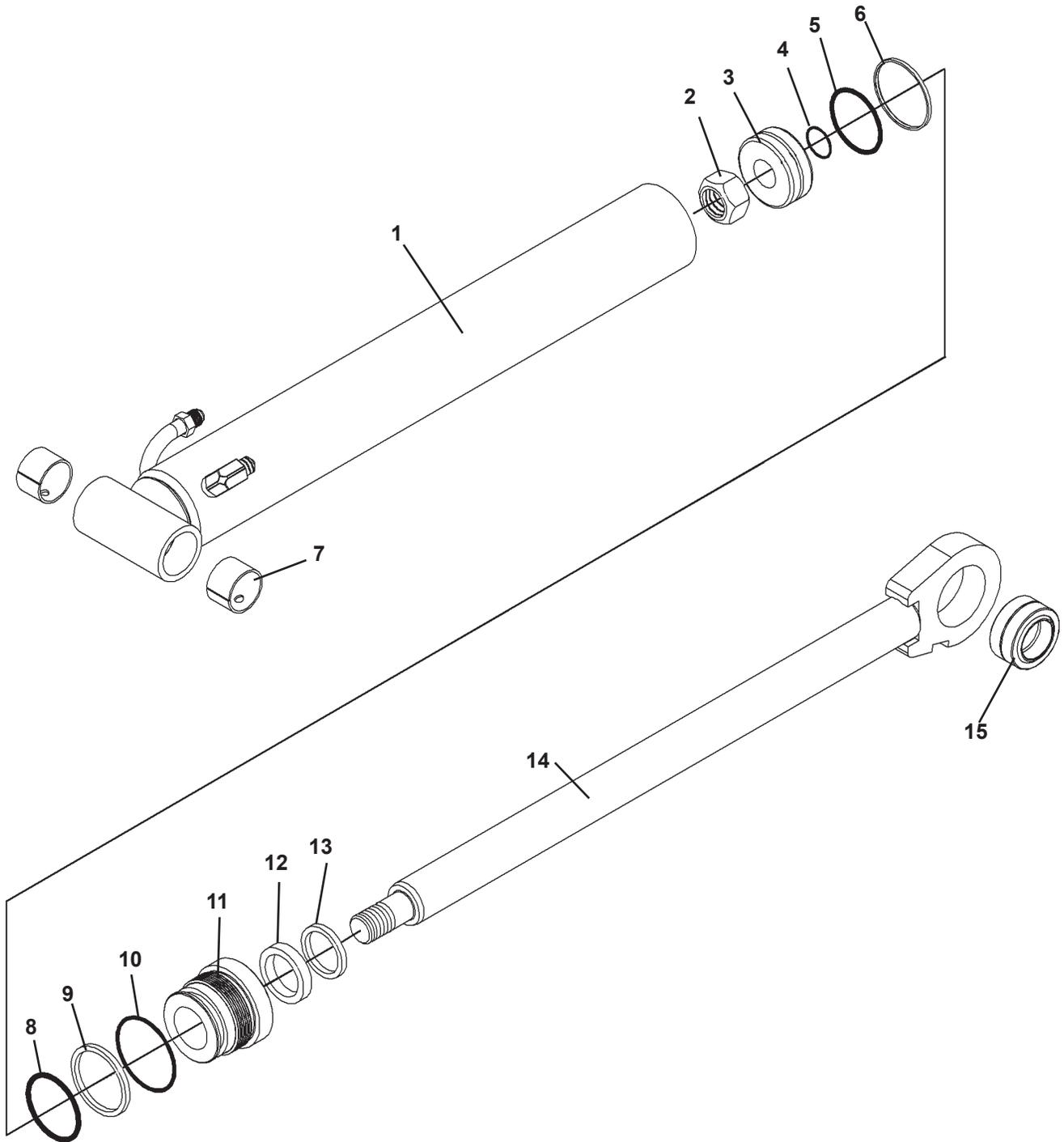
ASSEMBLY #105322

<u>ITEM</u>	<u>REQ'D</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	1	105323	Cylinder Tube
2	1	1483	Hex Nut (Torque to 230-325 ft. lbs.)
3	1	105320	Piston
4	1	45250*	O'Ring
5	1	45251*	Piston Ring
6	1	4641*	O'Ring
7	2	85772	Bushing
8	1	45557*	O'Ring
9	1	45249*	Back-Up Washer
10	1	4570*	O'Ring
11	1	82449	Gland
12	1	45225*	Poly-Pak Seal
13	1	45372*	Rod Wiper
14	1	105326	Cylinder Rod
15	1	62523	Self-Aligning Bushing

**NOTE: Seal Kit #45618 includes all parts marked with an asterisk(\*). Parts are not sold separately.**

# DIPPER CYLINDER ASSEMBLY

ASSEMBLY #105314



# DIPPER CYLINDER ASSEMBLY

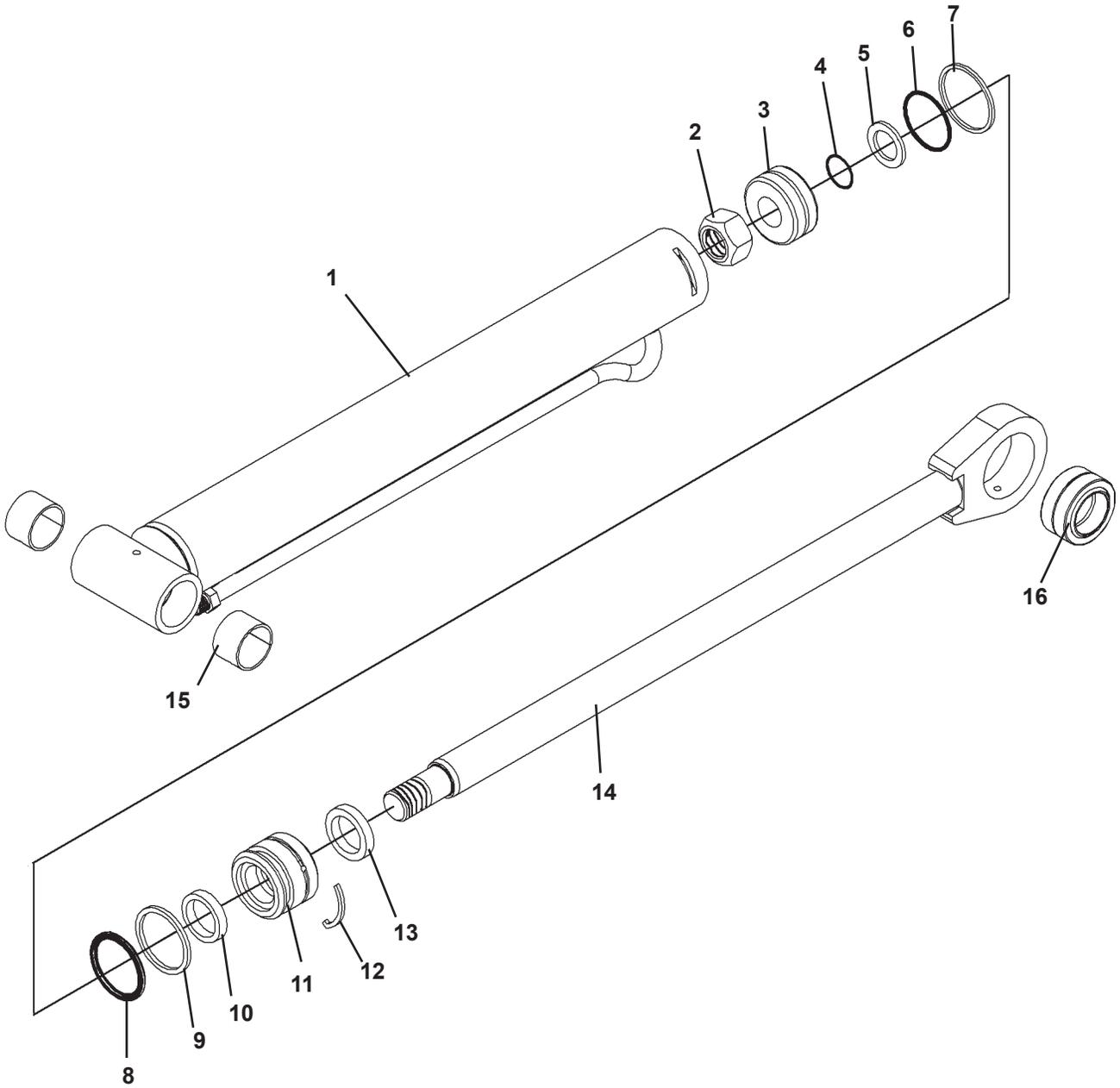
ASSEMBLY #105314

<u>ITEM</u>	<u>REQ'D</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	1	105315	Cylinder Tube
2	1	1483	Hex Nut (Torque to 230-325 ft. lbs.)
3	1	50252	Piston
4	1	4641*	O'Ring
5	1	4645*	O'Ring
6	1	4644*	Piston Ring
7	2	85772	Bushing
8	1	4509*	O'Ring
9	1	4510*	Back-Up Washer
10	1	45250*	O'Ring
11	1	86609	Gland
12	1	45225*	Poly-Pak Seal
13	1	45372*	Rod Wiper
14	1	105318	Cylinder Rod
15	1	6615	Bushing

**NOTE: Seal Kit #45738 includes all parts marked with an asterisk(\*). Parts are not sold separately.**

# BUCKET CYLINDER ASSEMBLY

ASSEMBLY #105306



# BUCKET CYLINDER ASSEMBLY

ASSEMBLY #105306

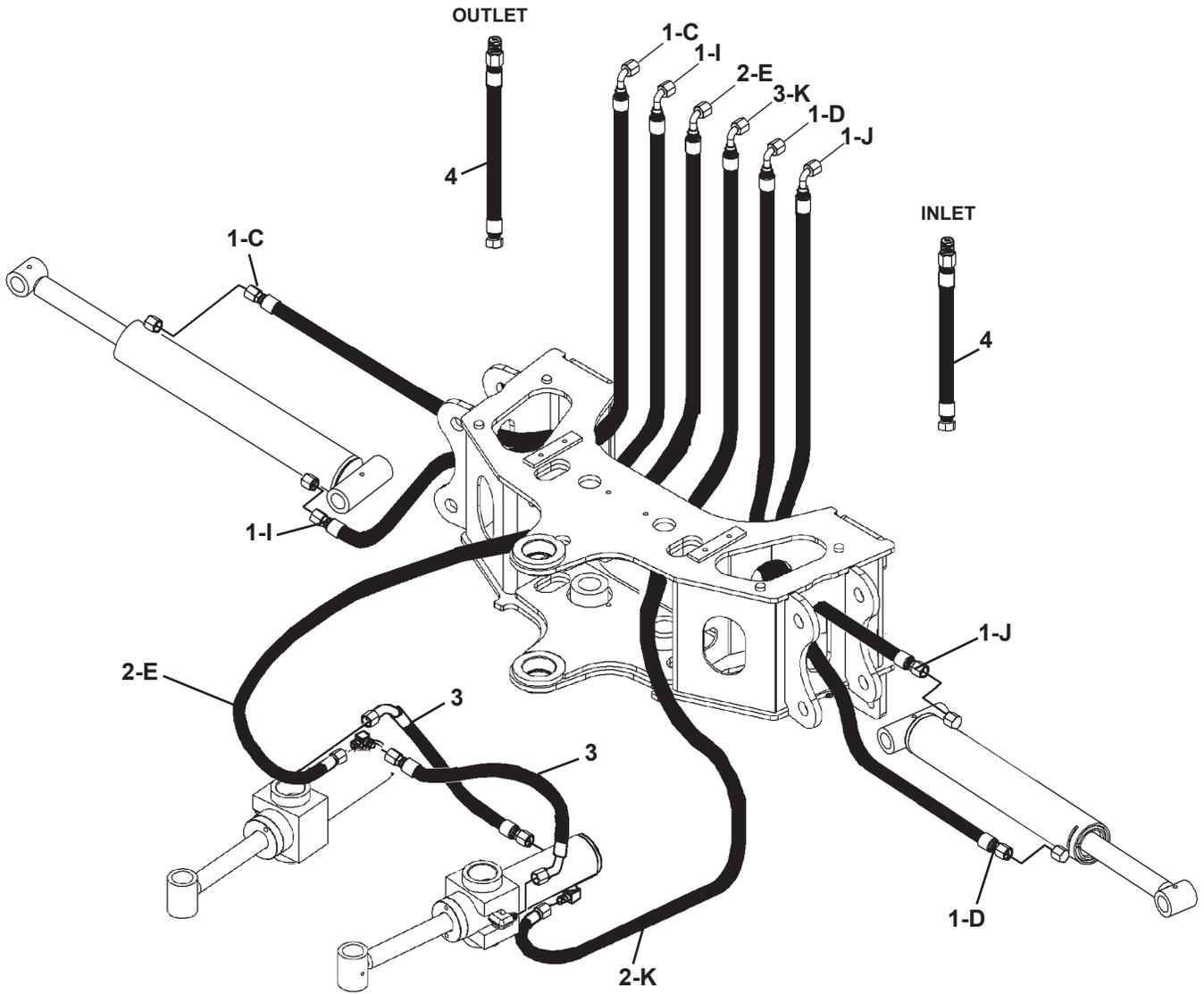
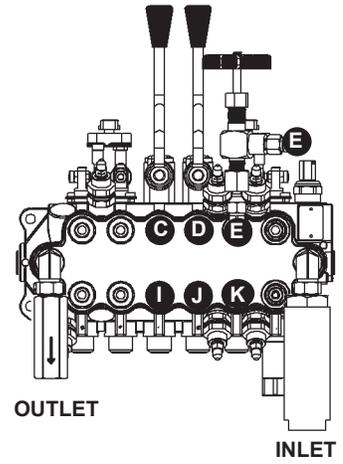
<u>ITEM</u>	<u>REQ'D</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	1	105309	Cylinder Tube
2	1	1483	Hex Nut (Torque to 230-325 ft. lbs.)
3	1	86509	Piston
4	1	4641*	O'Ring
5	1	5421	Washer
6	1	45443*	O'Ring
7	1	45701*	Piston Ring
8	1	45699*	O'Ring
9	1	45700*	Back-Up Washer
10	1	86508	Gland
11	1	45219*	Poly-Pak Seal
12	1	7165*	Gland Retainer Rod
13	1	4974*	Rod Wiper
14	1	105307	Cylinder Rod
15	2	85772	Bushing
16	1	6615	Self-Aligning Bearing

**NOTE: Seal Kit #45478 includes all parts marked with an asterisk(\*). Parts are not sold separately.**

# MAINFRAME HOSE SET

ASSEMBLY #38462

## HYDRAULIC CONTROL VALVE



10705 8-24-06

# MAINFRAME HOSE SET

ASSEMBLY #38462

<u>ITEM</u>	<u>REQ'D</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	4	38417	Hose Assembly .25" X 39" 6FJX 90° - 6FJX
2	2	38461	Hose Assembly .25" X 30" 6FJX 90° - 6FJX
3	2	38460	Hose Assembly .25" X 18" 6FJX 45° - 6FJX
4	2	38489	Hose Assembly .50" X 16" 8FJX - 8MBo

NOTE: Letters on the hose set diagram show the hydraulic hose routing between the backhoe control valve and the various hydraulic cylinders. Simply match the letter on the control valve port to the same letter on the hydraulic hose ends. Example: Hose labeled "C" runs from the upper right Stabilizer port on the hydraulic control valve - through the swing post (hose sock) and to the rod end fitting on the right stabilizer cylinder.

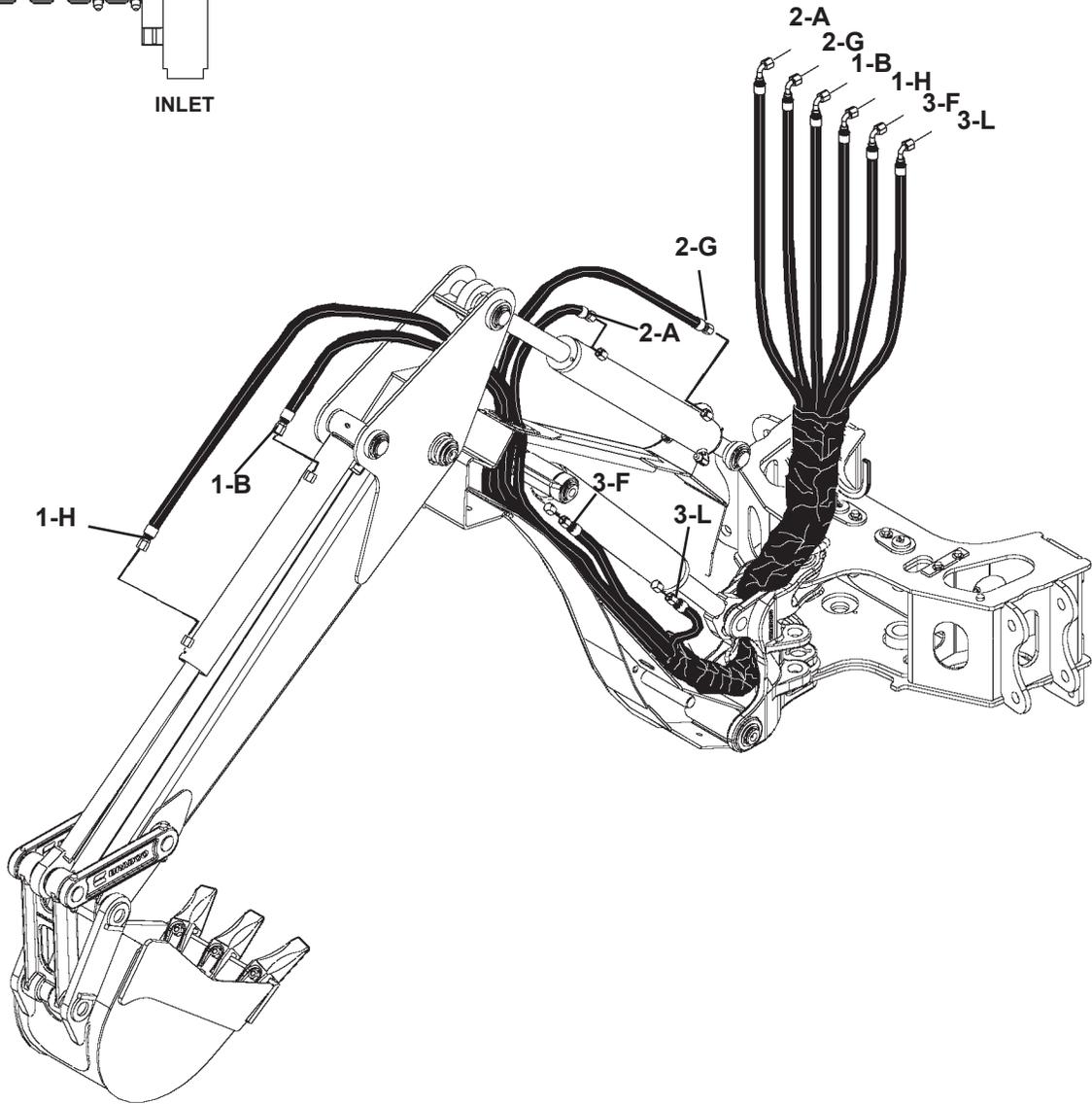
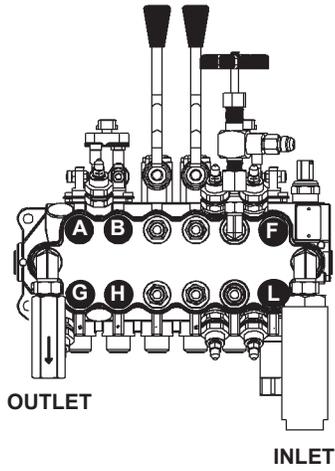
NOTE: The fittings on the hydraulic cylinders have been altered for clarity purposes. This will assist you in distinguishing between the rod end and the barrel end of the various hydraulic cylinders.

10706 8-24-06

# BOOM AND DIPPER HOSE SET

ASSEMBLY #38463

## HYDRAULIC CONTROL VALVE



# BOOM AND DIPPER HOSE SET

ASSEMBLY #38463

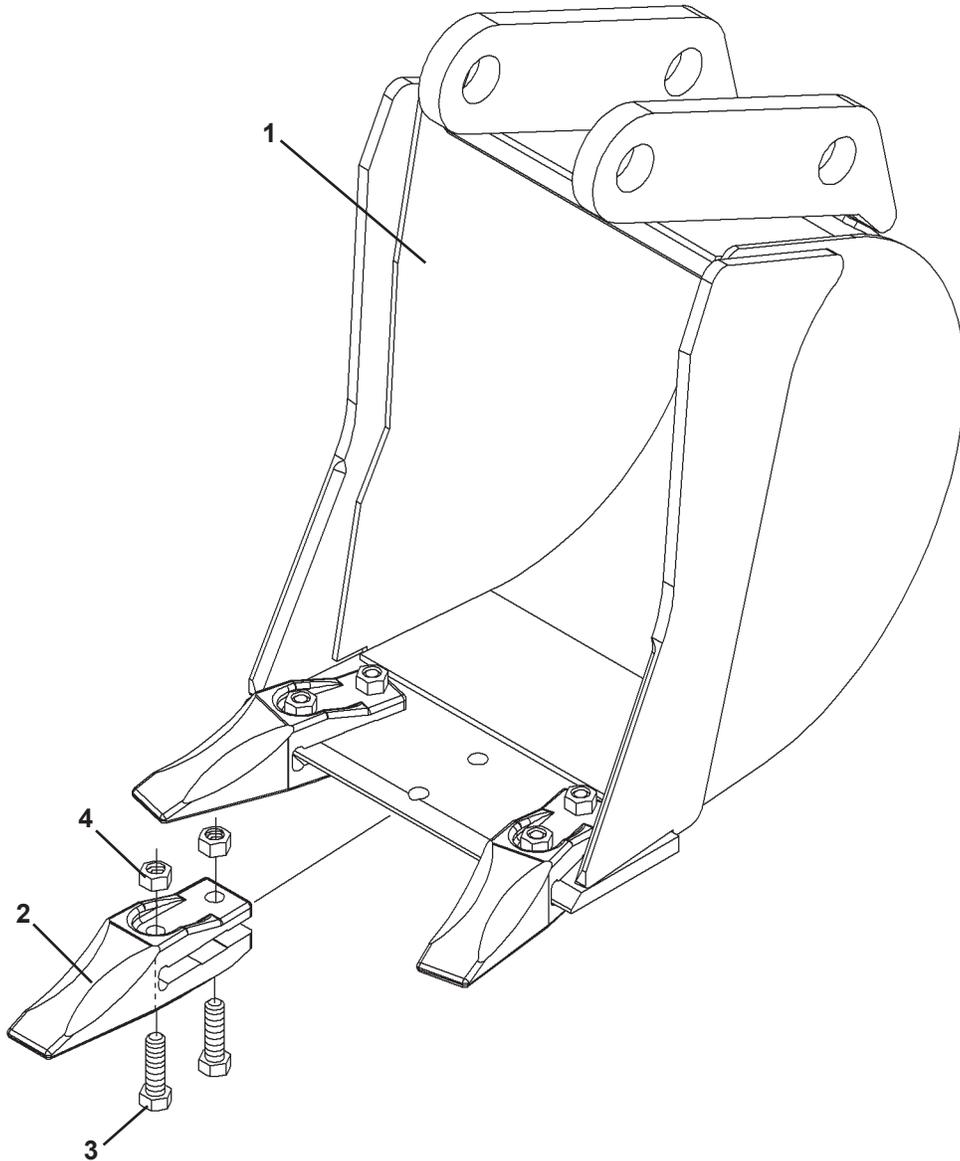
<u>ITEM</u>	<u>REQ'D</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	2	38458	Hose Assembly .25" X 109" 6FJX 90° - 6FJX
2	2	38457	Hose Assembly .25" X 106" 6FJX 90° - 6FJX
3	2	38476	Hose Assembly .25" X 69" 6FJX 90° - 6FJX

NOTE: Letters on the hose set diagram show the hydraulic hose routing between the backhoe control valve and the various hydraulic cylinders. Simply match the letter on the control valve port to the same letter on the hydraulic hose ends. Example: Hose labeled "L" runs from the lower Boom port on the hydraulic control valve - through the swing post (hose sock) and to the rod end fitting on the boom cylinder.

NOTE: The fittings on the hydraulic cylinders have been altered for clarity purposes. This will assist you in distinguishing between the rod end and the barrel end of the various hydraulic cylinders.

10708 8-28-06

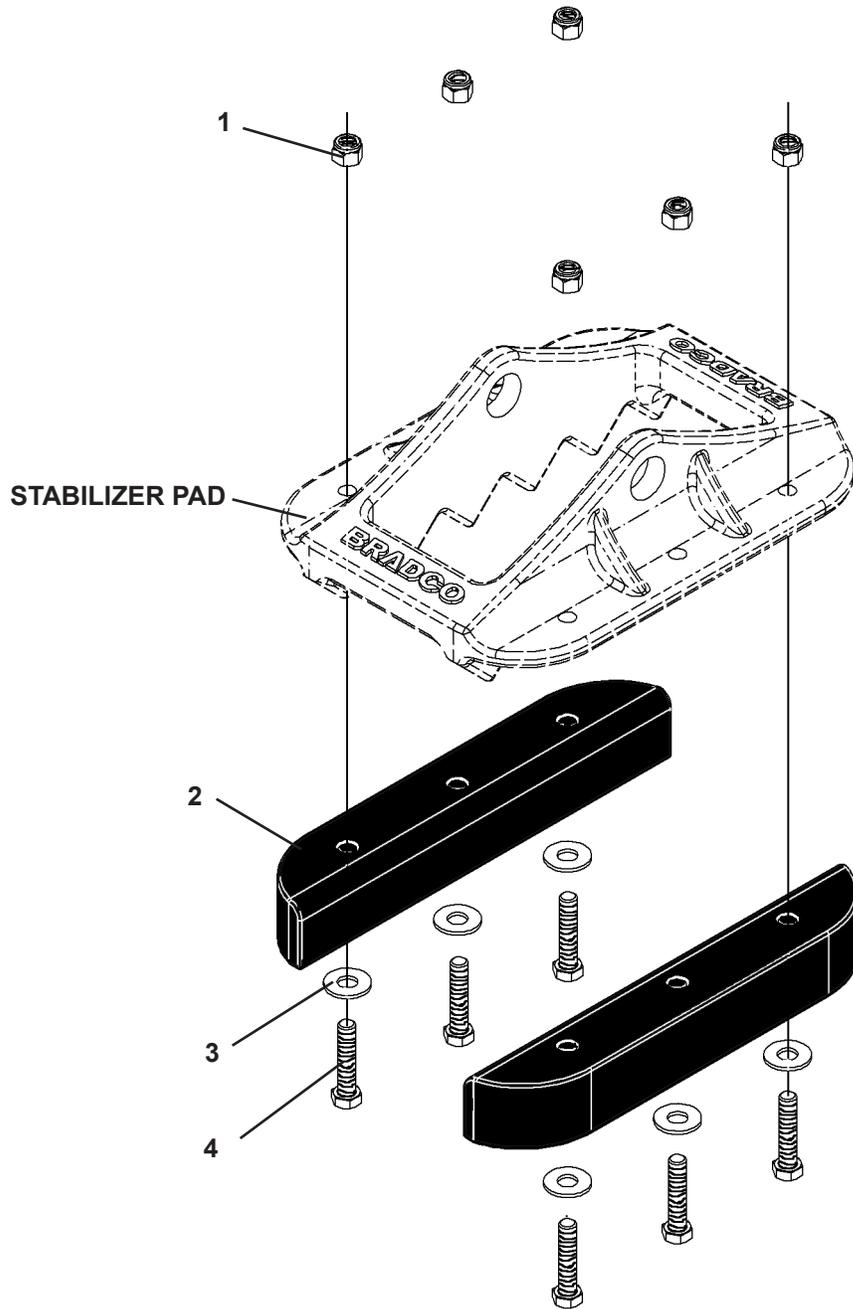
# BUCKET OPTIONS



## BUCKET OPTIONS

<u>ITEM</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	103110	10" Bucket Weldment (Requires 3 Teeth)
	103112	12" Bucket Weldment (Requires 3 Teeth)
	103116	16" Bucket Weldment (Requires 4 Teeth)
	103118	18" Bucket Weldment (Requires 4 Teeth)
	103124	24" Bucket Weldment (Requires 5 Teeth)
2	102831	Bolt-On Tooth
3	1091	.50" UNC X 1.75" Hex Capscrew
4	1841	.50" UNC Deformed Oval Lock Nut

# SPABILIZER PAD OPTIONS



# STABILIZER PAD OPTIONS

## RUBBER PAD KIT #103676

<u>ITEM</u>	<u>REQ'D</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	6	1536	.38" UNC Nylock Nut
2	2	102625	Rubber Pad
3	6	1514	.38" Flat Washer
4	6	1046	.38" UNC X 1.75" Hex Capscrew



## DECALS

**IMPORTANT**  
TO PREVENT BACKHOE DAMAGE:

- DO NOT ATTACH TOW CHAIN TO DIPPER OR BUCKET.
- DO NOT REPEATEDLY SLAM SWING POST INTO SWING STOPS.

**PREPARATION FOR STORAGE**

LUBRICATE ALL GREASE POINTS. LEAVE AS MANY CYLINDERS IN CLOSED POSITION AS POSSIBLE. COVER ALL EXPOSED CYLINDER RODS WITH A LIGHT COAT OF GREASE. #40257

**PART #40257**  
**IMPORTANT**



**PART #40440**  
**CALL BEFORE YOU DIG**

**WARNING**

**TO PREVENT SERIOUS INJURY OR DEATH:**

- | Do not operate or work on this machine without reading and understanding Operator's Manual.
- | Avoid unsafe operation or maintenance.
- | Do not operate machine with guards and covers removed.
- | This machine was designed to be operated by one operator. Do not carry passengers on unit.
- | Before installing backhoe on your unit extend boom and dipperstick and lower bucket to ground.
- | Never use backhoe as manlift.
- | Operate backhoe control levers from operator's seat only. Lower stabilizers and bucket to ground before leaving operator's seat.
- | Engage boom lock and swing lock before transporting backhoe.

#40255

**PART #40255**  
**WARNING! OPERATIONAL**

**WARNING**

**HIGH-PRESSURE FLUID HAZARD**

To prevent serious injury or death:

- Relieve pressure on system before repairing or adjusting or disconnecting.
- Wear proper hand and eye protection when searching for leaks. Use wood or cardboard instead of hands.
- Keep all components in good repair.

**PART #40151**  
**WARNING! HIGH PRESSURE FLUID**

**DANGER**

To Prevent Serious Injury or Death from Crushing:

Verify the backhoe is securely attached to the prime mover.

- Check mounting bolts for tightness.
- Visually check for proper pin engagement before operating.

#41169

**PART #41169**  
**DANGER! BACKHOE SECURE**

**CAUTION**

**485 BACKHOE AND 3- POINT LIMITATIONS**

For Use On Category I and II Tractors:  
35 - 60 Horsepower.  
800 - 3800 Lbs. Rated Hitch Lift Capacity.  
Up To 6000 Lbs. GVW.

Mounting This Backhoe On Larger Tractors May Result In Serious Damage To The Backhoe And Void Warranties.

Do Not Use 3-Point Quick Attaching Coupler To Mount Backhoe On Tractor.

Minimum Of 20% Of Tractor And Equipment Weight Must Be On The Tractor Front Wheels With The Backhoe In The Transport Position.

Sustained Heavy Use Of Backhoe May Result In Damage To The Tractor. #40972

**PART #40972**  
**WARNING! 3-POINT LIMITATIONS**

**IMPORTANT**

The backhoe bucket is capable of contacting this stabilizer and/or cylinder. Careful operation will avoid backhoe damage.

#4140

**PART #4140**  
**IMPORTANT**

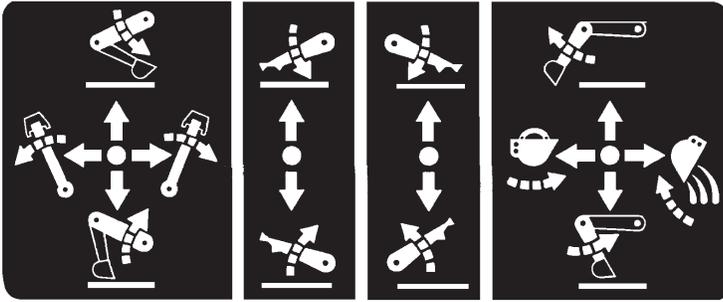
**DANGER**

To prevent serious injury or death from pinching:

- Keep all persons and objects clear while any part of this machine is in motion.

**PART #40149**  
**DANGER! PINCH POINT**

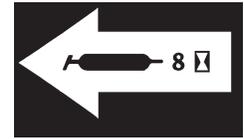
# DECALS



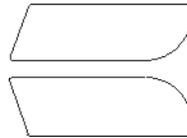
**PART #4368**  
**OPERATING CONTROLS DECAL**



**PART #43638**  
**MADE IN USA**



**PART #4084**  
**GREASE 8 HOURS**



# BRADCO

**PART #40092**  
**BRADCO LOGO**



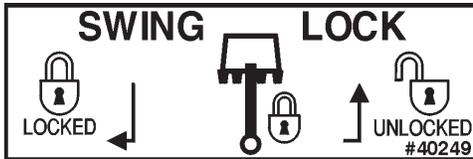
**PART #40926**  
**BOOM LOCK**

**SWING SPEED CONTROL**

#40927



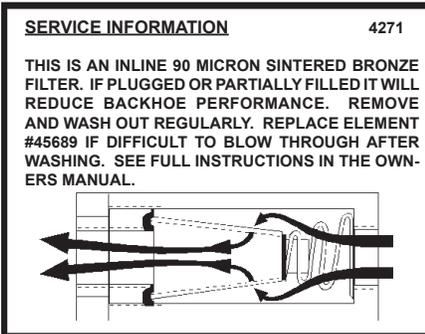
**PART #40927**  
**SWING SPEED CONTROL**



**PART #40249**  
**SWING LOCK**

# 485

**PART #40944**  
**485 MODEL NUMBER**



**PART #4271**  
**INLINE FILTER**



**PART #40091**  
**FLOAT**

## IMPORTANT NOTICE REGARDING 3-POINT HITCH BACKHOES.

BRADCO MAKES NO CLAIMS OR WARRANTY, IMPLIED OR OTHERWISE, as to the compatibility or structural integrity of any tractors 3-point hitch assembly or components when used with any BRADCO 3-point hitch type backhoe. Since many models of tractors have standard category hitches and backhoes have standard category attaching points, it is possible to mount tractor or backhoe combinations that are not compatible.

**DEALERS AND/OR OWNERS MUST DETERMINE THAT COMPATIBILITY BETWEEN THE TRACTOR AND BACKHOE EXISTS.**

Compatibility includes, but is not limited to items such as operator clearance, hitch component strength, tractor case strength and hydraulics.

Suggestions given as to hitch categories and horsepower ranges used with various models of backhoes are suggestions only and not recommendations as to suitability of any combination of tractors and backhoes.

BRADCO also manufactures solid 4-point mounting kits for many models of tractors. These kits do NOT mount to the 3-Point hitch. If in doubt about your hitch compatibility, solid 4-point mounting type kit and backhoe should be used.

**PART #40410**  
**IMPORTANT**

10711 8-29-06