

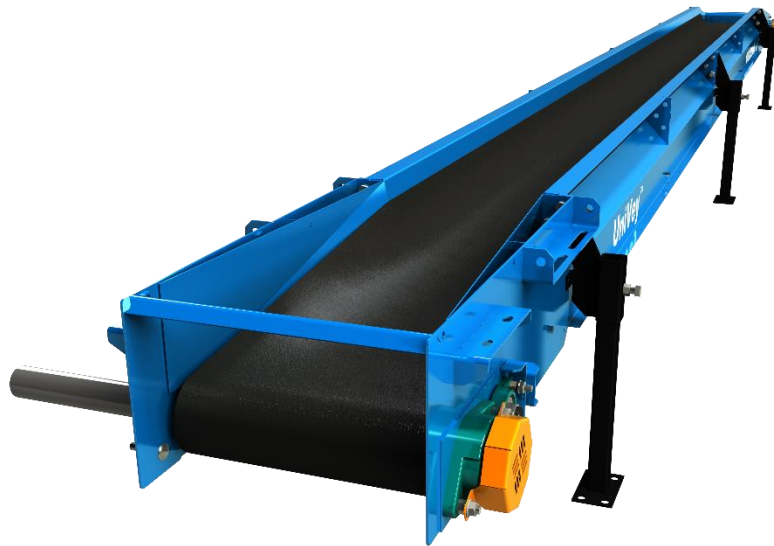


Since 1906...

Universal[®] Industries

Universal Industries, Inc.

HBC CONVEYOR



Manual

PART NUMBER: 75230

Safety, Installation, Maintenance,
Operation & Parts

Model: _____

S.N.: _____

Date: _____

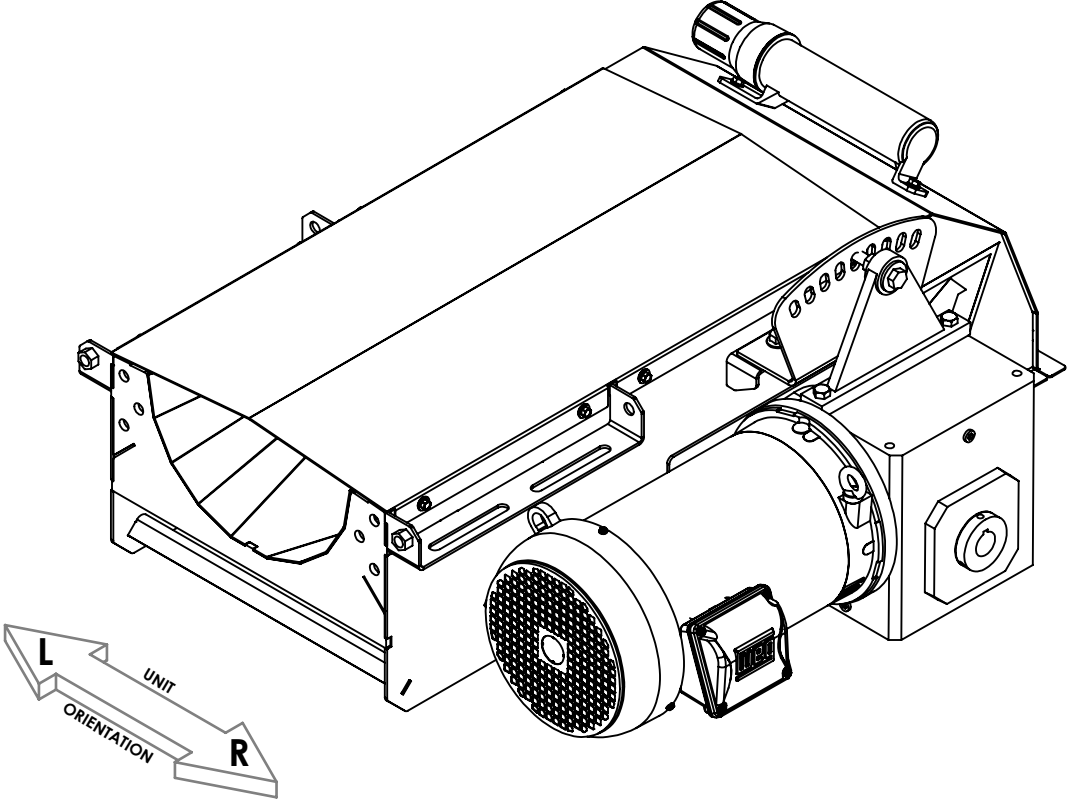
For Parts or Service Contact:

Universal Industries, Inc.

5800 Nordic Drive • P.O. Box 308 • Cedar Falls, IA 50613-0019

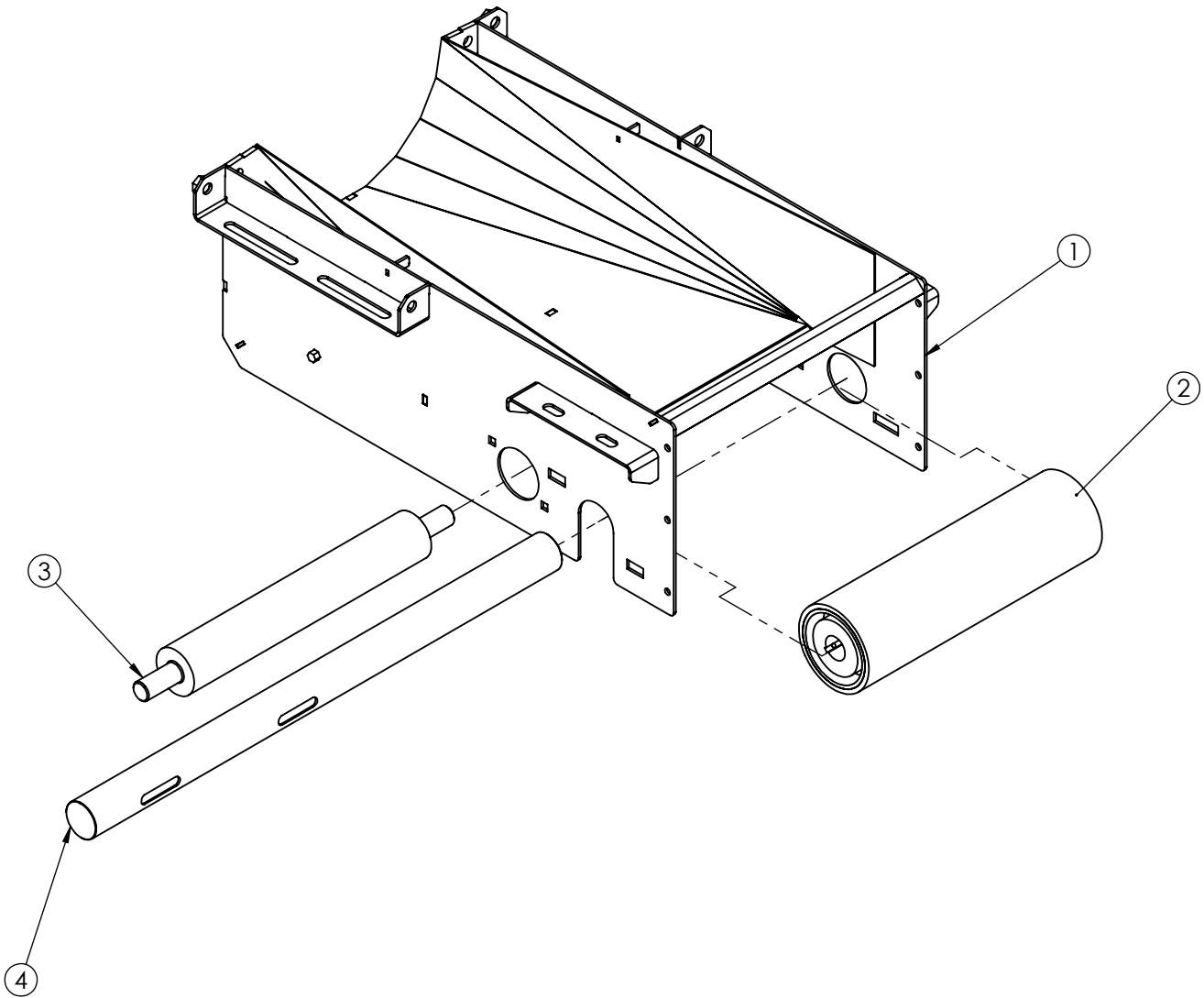
Phone: (319) 277-7501 • Fax: (319) 277-2318

HBC HEAD ASSEMBLY AND PARTS (#4 DRIVE PACKAGE OPTION)



PULLEYS AND SHAFTS

ITEM	PART NUMBER	DESCRIPTION	QTY
1	73077	FRAME,HEAD,HBC,CS	1
2	49770	PULLEY,CF,DRUM,4.00X15.00,1.25	1
3	71475	PULLEY,S-WRAP,LOW-PRO,CS	1
4	VARIES	SHAFT	1



ASSEMBLY:

1. PLACE ITEM (3) INTO THROUGH THE SIDE WALL AS DEPICTED ABOVE.
2. PLACE ITEM (2) IN BETWEEN SIDE WALLS OF HEAD.
3. SLIDE ITEM (4) AND KEY INTO ITEM (2).

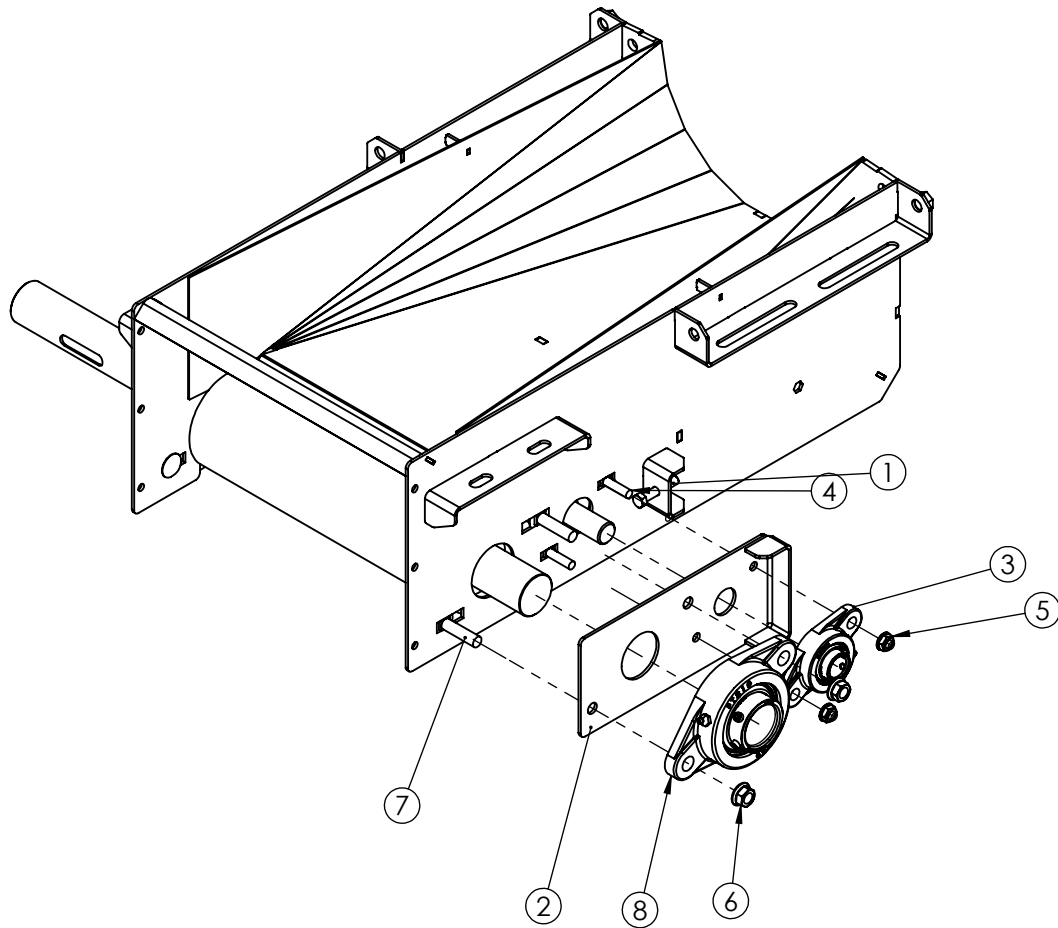
BEARINGS

1-1/4" BEARING HEAD

ITEM	PART NUMBER	DESCRIPTION	QTY
1	30719	BOLT,HH-TAP,0.375-16X2.00,ZP	1
2	73596	SLIDE,BRG,HEAD,HBC,CS	1
3	72701	BRG,1.000,2BFL,SET-SCREW,PEER	2
4	58546	BOLT, CB, 0.375-16X1.5, SHRTNK, ZP, GR5	2
5	30150	NUT,HEXFLANGE,0.375-16,ZP	2
6	57655	NUT,HEXFLANGE,0.500-13,ZP	2
7	58061	BOLT,CB,0.50-13X2.00,SHRTNK,ZP	2
8	72704	BRG,1.250,2BFL,SET-SCREW,PEER	1

1-15/16" BEARING HEAD

ITEM	PART NUMBER	DESCRIPTION	QTY
1	30719	BOLT,HH-TAP,0.375-16X2.00,ZP	1
2	73596	SLIDE,BRG,HEAD,HBC,CS	1
3	72701	BRG,1.000,2BFL,SET-SCREW,PEER	2
4	58546	BOLT, CB, 0.375-16X1.5, SHRTNK, ZP, GR5	2
5	30150	NUT,HEXFLANGE,0.375-16,ZP	2
6	57655	NUT,HEXFLANGE,0.500-13,ZP	2
7	58061	BOLT,CB,0.50-13X2.00,SHRTNK,ZP	2
8	72708	BRG,1.938,2BFL,SET-SCREW,PEER	1



ASSEMBLY:

1. THREAD ① INTO FRAME OF HEAR.
2. ATTACH ITEMS ②, ⑧, AND ③ USING ⑦, ⑥, ④, AND ⑤, **DO NOT TIGHTEN ALL THE WAY.** LEAVE LOOSE ENOUGH SO THAT PLATE CAN SLIDE FREELY.

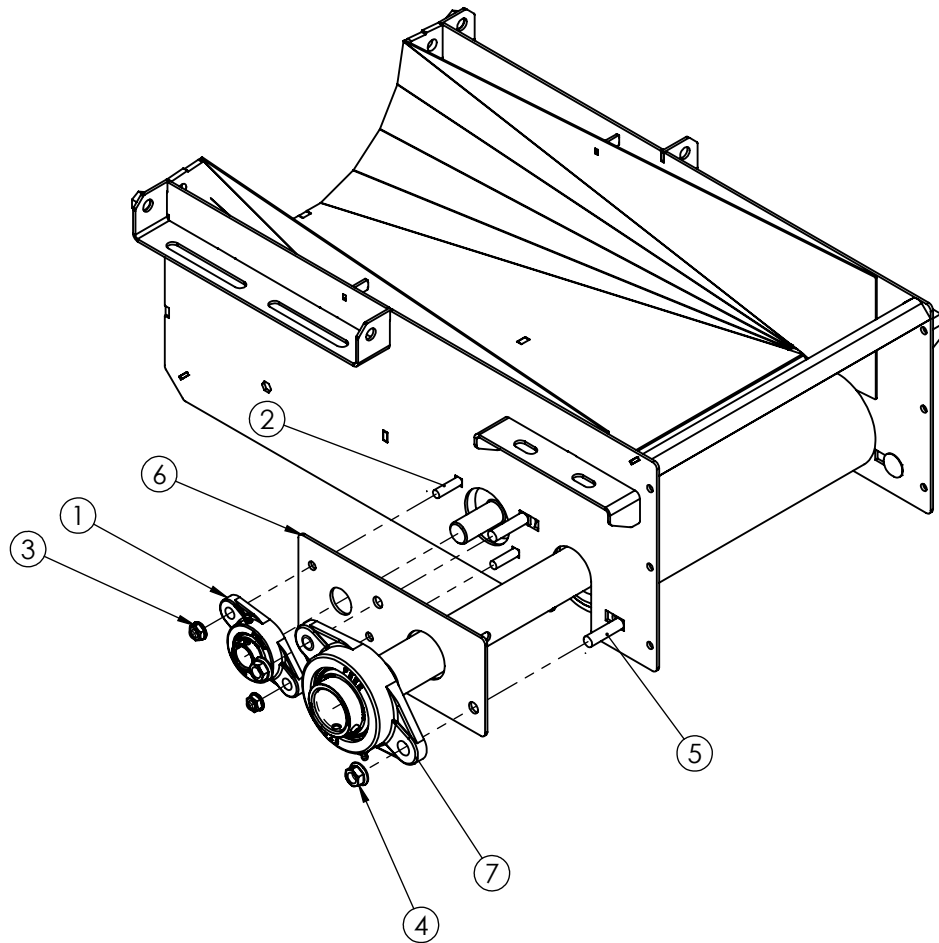
BEARINGS

1-1/4" BEARING HEAD

ITEM	PART NUMBER	DESCRIPTION	QTY
1	72701	BRG,1.000,2BFL,SET-SCREW,PEER	1
2	58546	BOLT, CB, 0.375-16X1.5, SHRTNK, ZP, GR5	2
3	30150	NUT,HEXFLANGE,0.375-16,ZP	2
4	57655	NUT,HEXFLANGE,0.500-13,ZP	2
5	58061	BOLT,CB,0.50-13X2.00,SHRTNK,ZP	2
6	73597	COVER,HEADSHAFT SEAL,HBC,CS	1
7	72704	BRG,1.250,2BFL,SET-SCREW,PEER	1

1-15/16" BEARING HEAD

ITEM	PART NUMBER	DESCRIPTION	QTY
1	72701	BRG,1.000,2BFL,SET-SCREW,PEER	1
2	58546	BOLT, CB, 0.375-16X1.5, SHRTNK, ZP, GR5	2
3	30150	NUT,HEXFLANGE,0.375-16,ZP	2
4	57655	NUT,HEXFLANGE,0.500-13,ZP	2
5	58061	BOLT,CB,0.50-13X2.00,SHRTNK,ZP	2
6	73597	COVER,HEADSHAFT SEAL,HBC,CS	1
7	72708	BRG,1.938,2BFL,SET-SCREW,PEER	1

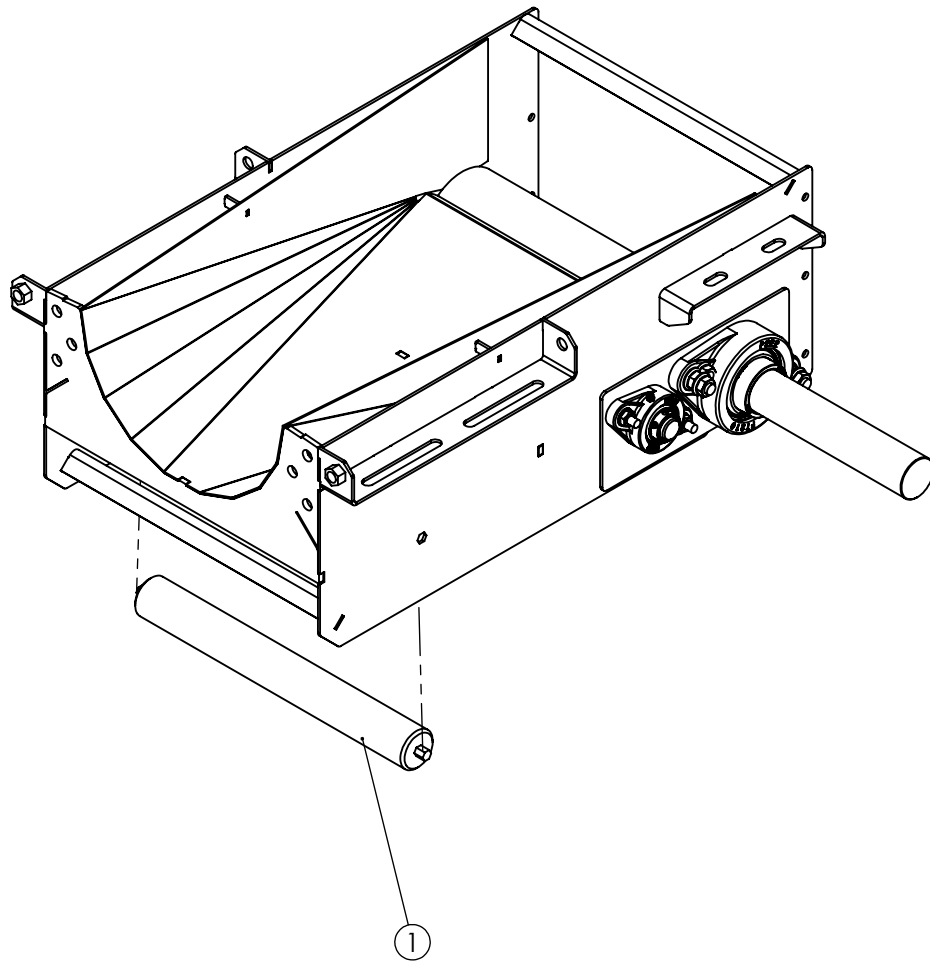


ASSEMBLY:

1. ATTACH ITEMS ①, ⑦, AND ⑥ USING ②, ③, ⑤, AND ④.
LEAVE LOOSE ENOUGH SO THAT PLATE CAN SLIDE FREELY.
2. SLIDE PULLEY SO THAT IT LOOKS LIKE IT IS PARALLEL WITH THE TROUGH, TIGHTEN BEARING BOLTS ON OTHER SIDE.
3. SLIDE SHAFT SO THAT THERE IS 1/4" STICKING OUT OF THE NON DRIVE SIDE, TIGHTEN BEARING SET SCREWS.
4. SLIDE PULLEY SO THAT IS CENTERED IN HEAD FRAME, TIGHTEN PULLEY SET SCREWS.

HEAD RETURN ROLLER

ITEM	PART NUMBER	DESCRIPTION	QTY
1	57449	PULLEY,RETURN,1.9,BF16.00,CSS	1

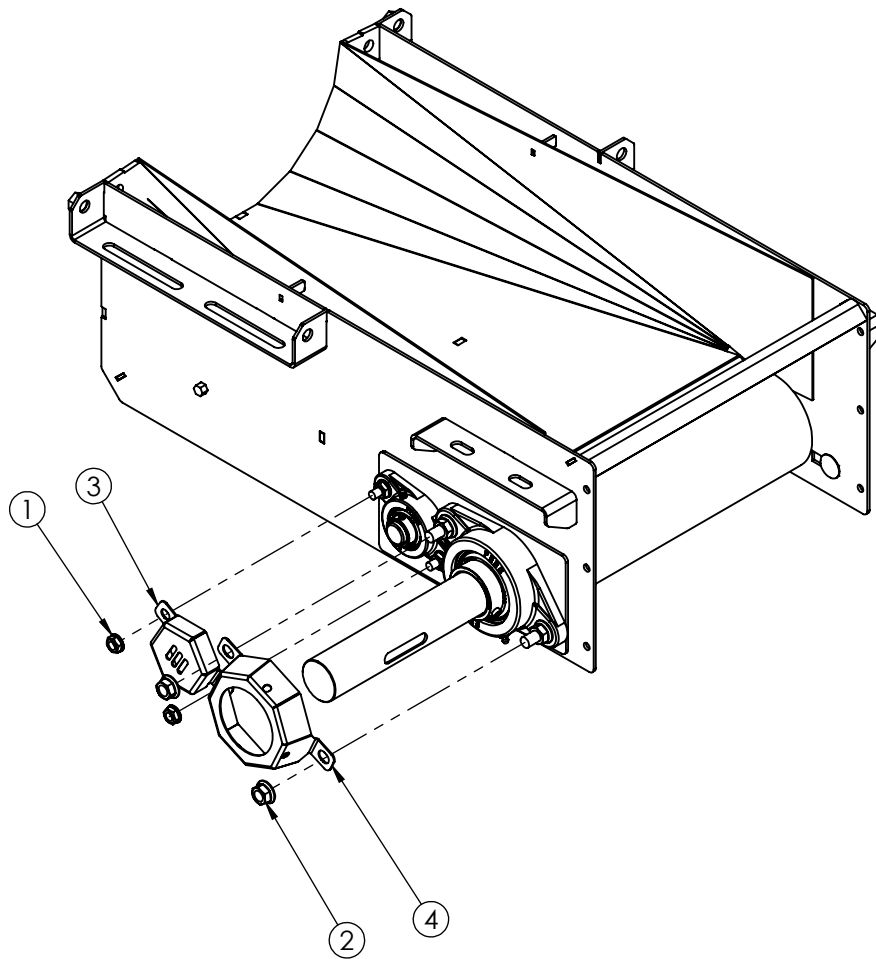


ASSEMBLY:

1. ASSEMBLE ITEM ① INTO HEAD FRAME.

HEAD BEARING GUARDS

ITEM	PART NUMBER	DESCRIPTION	QTY
1	30150	NUT,HEXFLANGE,0.375-16,ZP	2
2	57655	NUT,HEXFLANGE,0.500-13,ZP	2
3	68600	GUARD,BEARING,2&4BFL,1",CS	1
4	68611	GUARD,RDCR,MPK,#4GROVE,1.94,C S	1

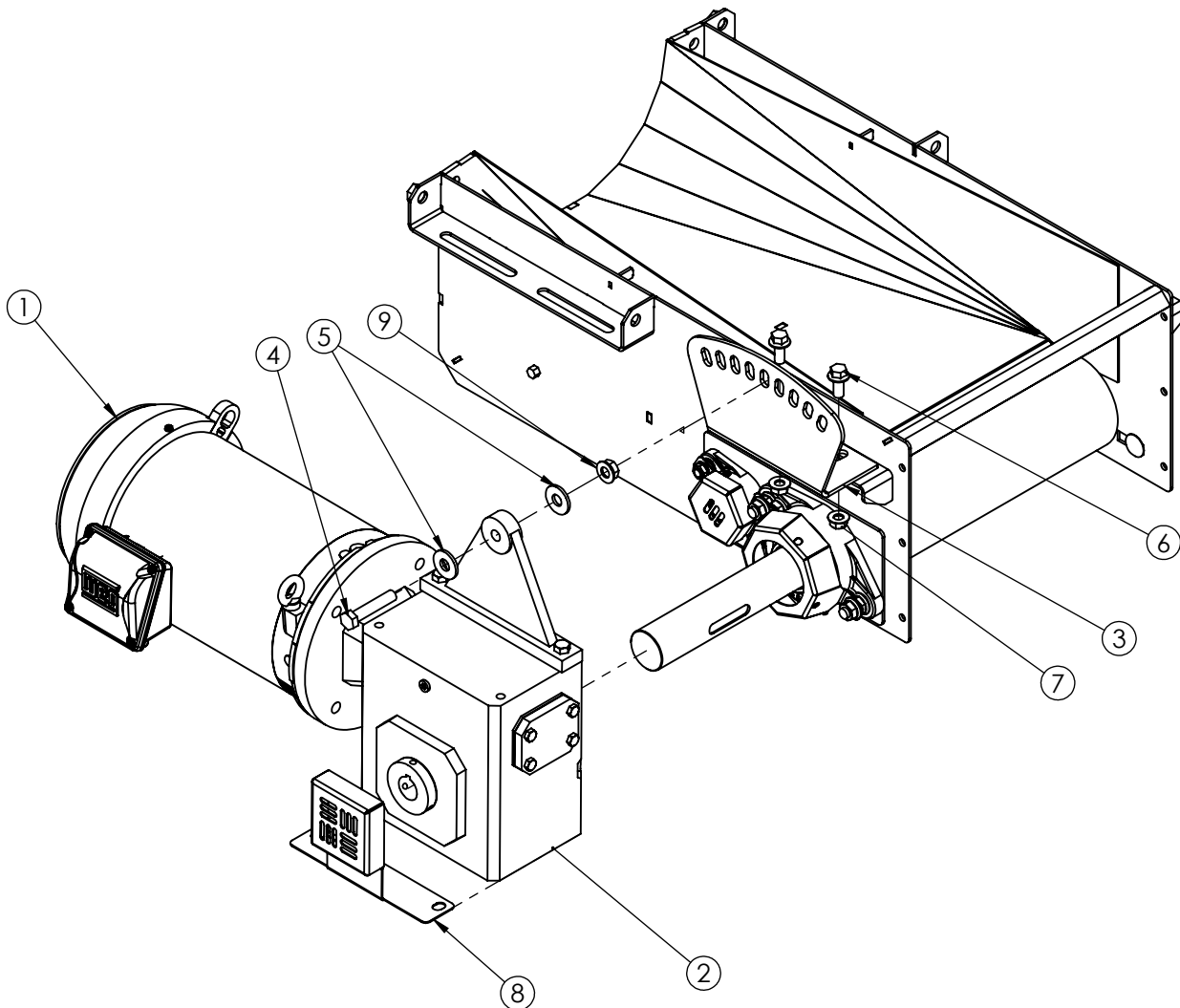


ASSEMBLY:

1. ASSEMBLE (3) AND (4) USING (1) AND (2) .

DRIVE ASSEMBLY

ITEM	PART NUMBER	DESCRIPTION	QTY
1	VARIES	MOTOR	1
2	VARIES	REDUCER	1
3	VARIES	BRKT,TORQUE,HBC,#4,GROVE,CS	1
4	30610	SCREW,HHCS,0.500-13X2.50,ZP	1
5	30415	WASHER,FLAT,0.50,ZP	2
6	57814	SCREW,HFHCS,0.4375-14X1.00,ZP	2
7	57815	NUT,HEXFLANGE,0.4375-14,ZP	2
8	VARIES	GUARD	1
9	57655	NUT,HEXFLANGE,0.500-13,ZP	1

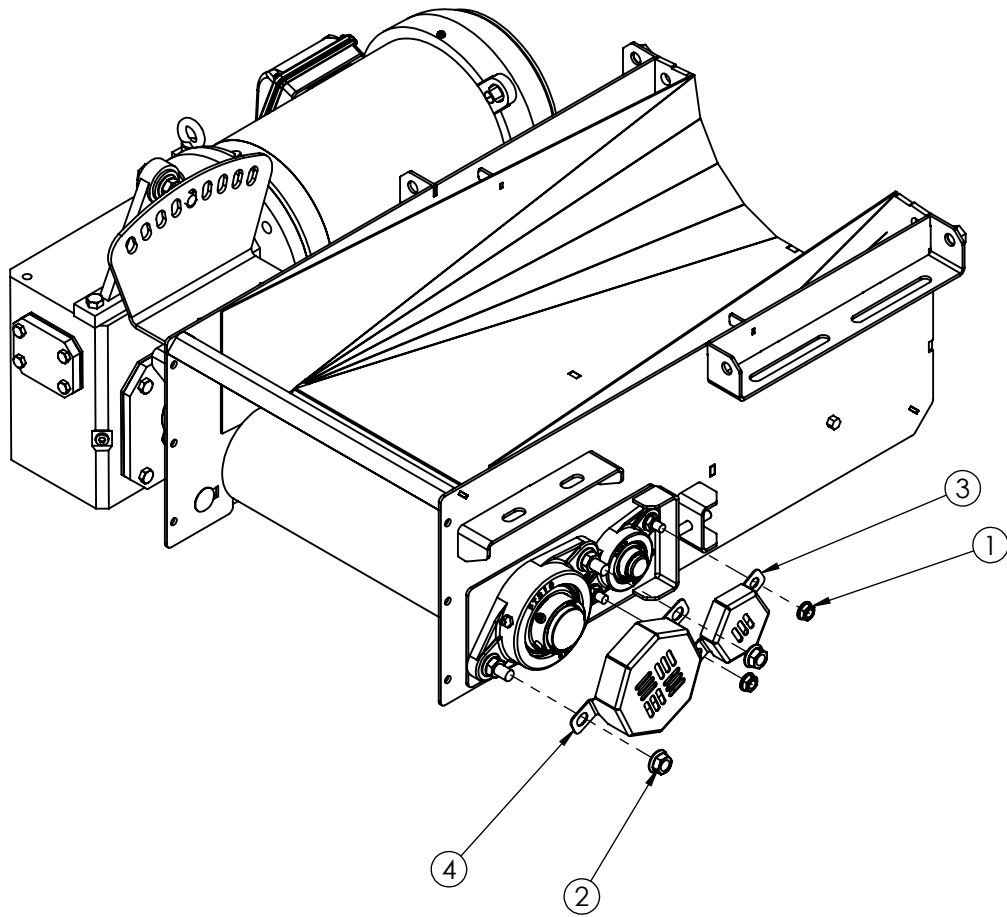


ASSEMBLY:

1. ASSEMBLE (3) USING (6) AND (7), LEAVE BOLTS LOOSE ENOUGH FOR PLATE TO SLIDE IN SLOTS .
2. ASSEMBLE TORQUE ARM AND INSTALL HARDWARE (4) , (5) ,AND (9) .
3. SLIDE (2) ONTO THE SHAFT UNTIL SHAFT IS FLUSH WITH END OF REDUCER. TIGHTEN SET SCREWS.
4. GET REDUCER STRAIGHT WITH HEAD AND TIGHTEN DOWN THE BOLTS HOLDING DOWN (3) .
5. INSTALL (8) .

HEAD GUARD ASSY

ITEM	PART NUMBER	DESCRIPTION	QTY
1	30150	NUT,HEXFLANGE,0.375-16,ZP	2
2	57655	NUT,HEXFLANGE,0.500-13,ZP	2
3	68600	GUARD,BEARING,2&4BFL,1",CS	1
4	VARRIES	GUARD,BEARING,2BFL	1

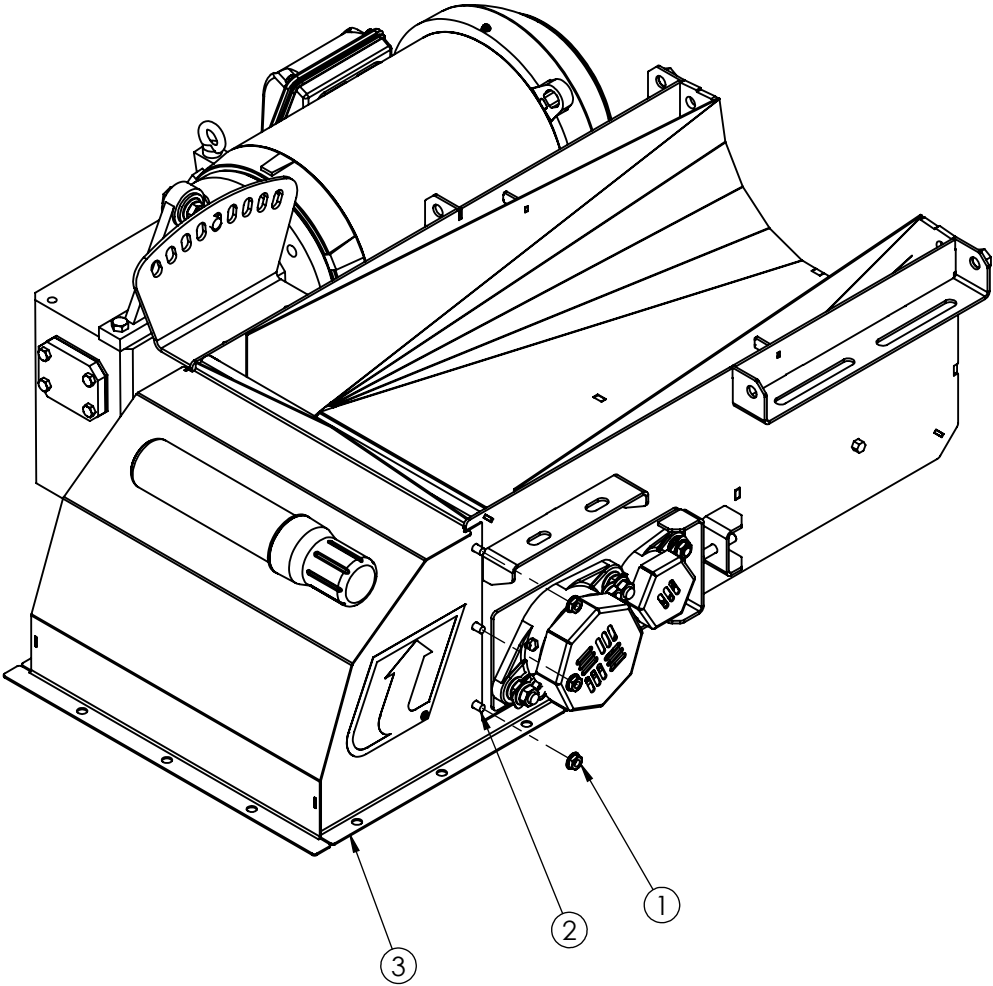


ASSEMBLY:

1. ASSEMBLE (4) AND (3) USING (1) AND (2) .

DISCHAGE ASSEMBLY

ITEM	PART NUMBER	DESCRIPTION	QTY
1	30152	NUT,HEXFLANGE,0.312-18,ZP	6
2	30407	SCREW,HFHCS,0.312-18X0.75,ZP	6
3	76128	DISCHARGE,HEAD,HBC15,90 DEG,CS	1

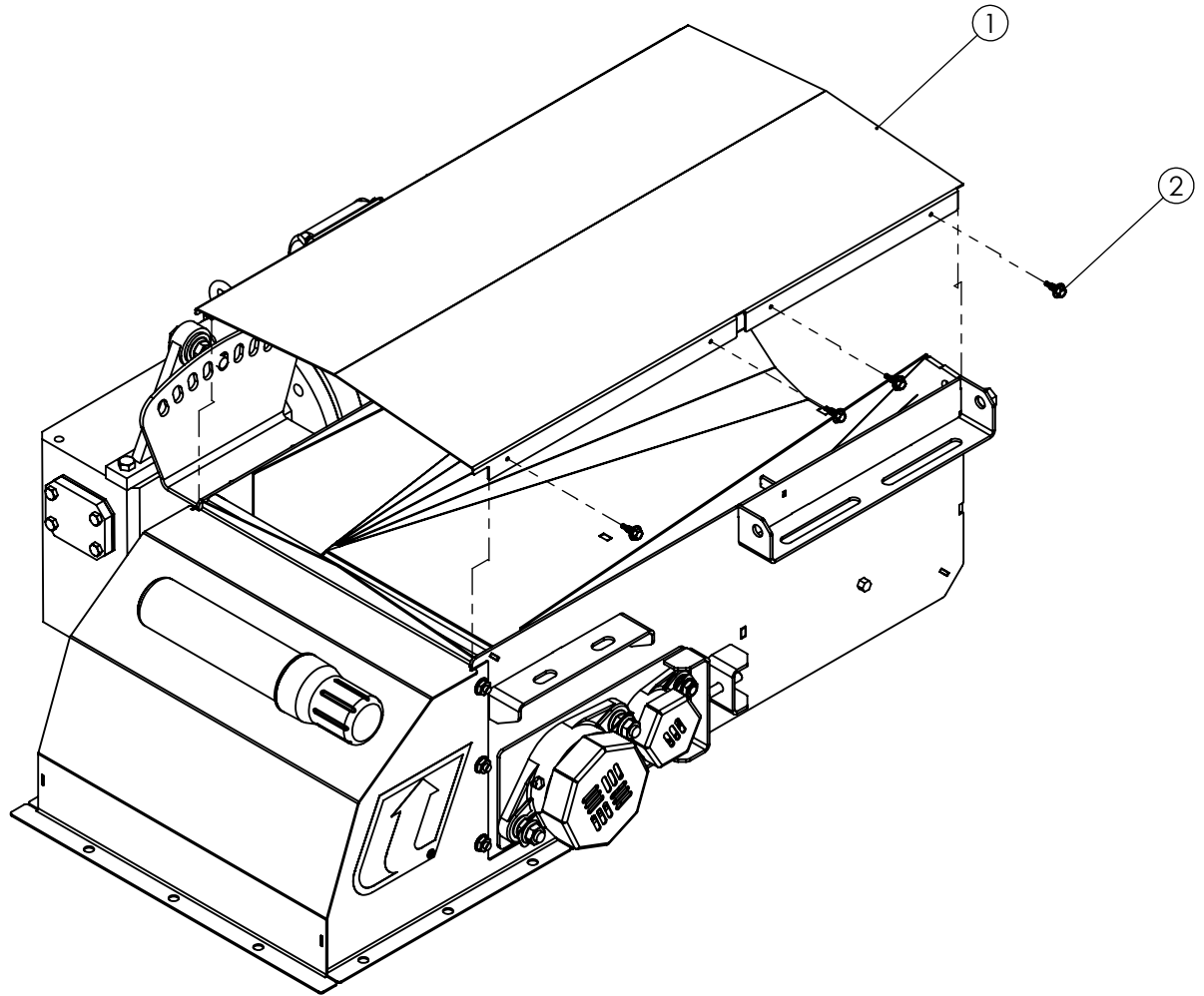


ASSEMBLY:

- 1. ASSEMBLE ③ USING ② AND ① .

HEAD TOP COVER

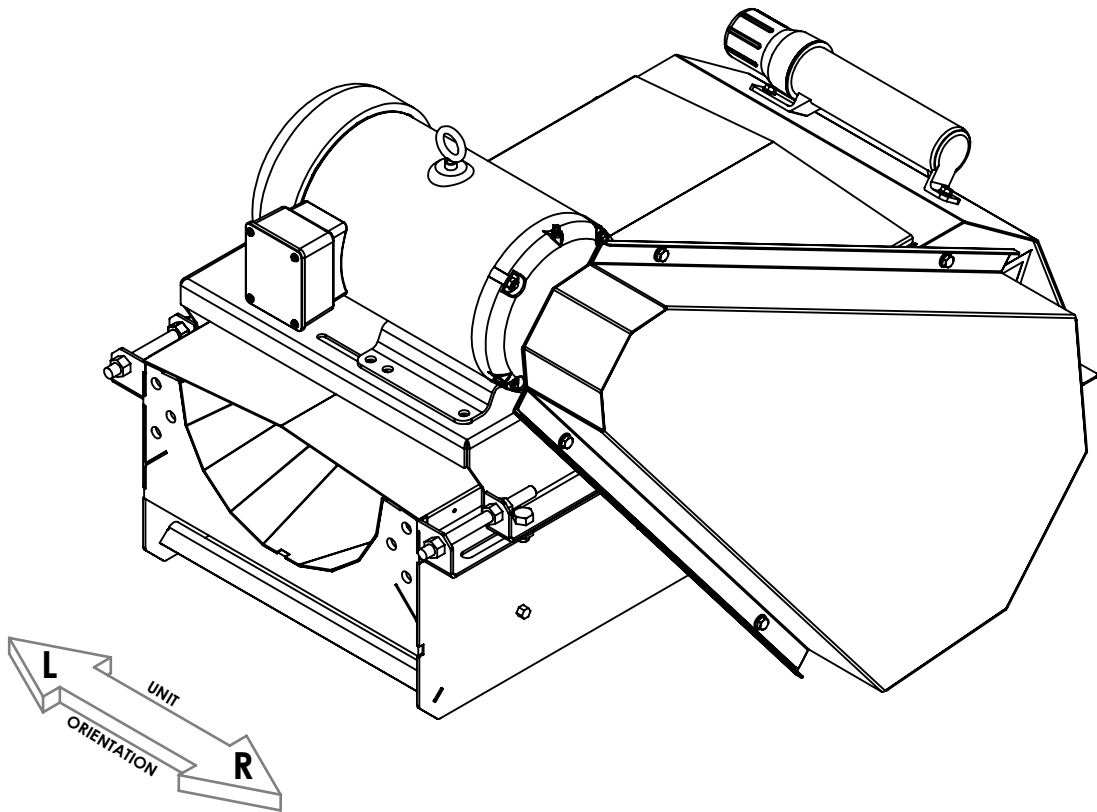
ITEM	PART NUMBER	DESCRIPTION	QTY
1	73088	COVER,HEAD,HBC,GS	1
2	72427	SCREW,SDS3,HWH,0.25-14X0.75,ZP	8



ASSEMBLY:

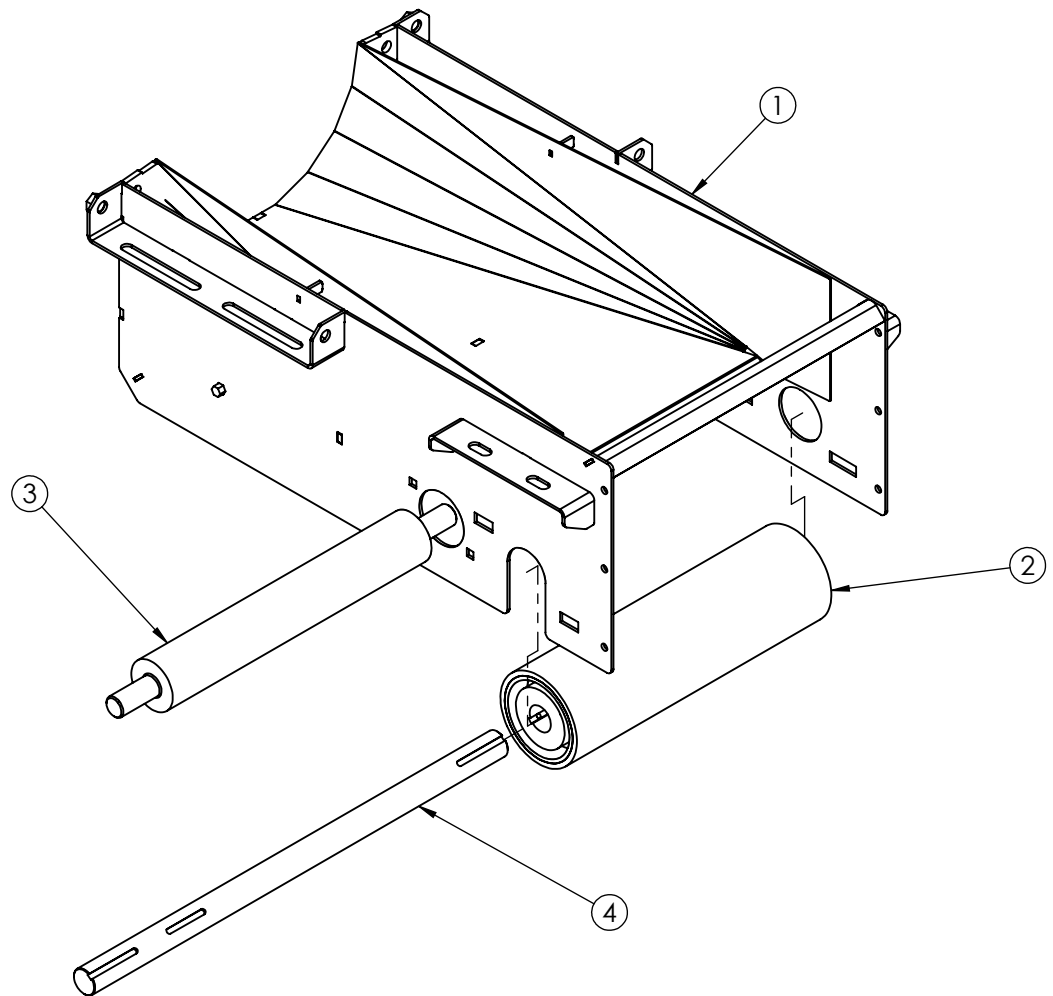
1. ASSEMBLE ① USING ② .

HBC HEAD ASSEMBLY AND PARTS (SINGLE REDUCTION V-BELT SHEAVE)



PULLEY AND SHAFTS

ITEM	PART NUMBER	DESCRIPTION	QTY
1	73077	FRAME,HEAD,HBC,CS	1
2	49770	PULLEY,CF,DRUM,4.00X15.00,1.25	1
3	71475	PULLEY,S-WRAP,LOW-PRO,CS	1
4	62738	SHAFT,1045,TG&P,1.25X24.375	1

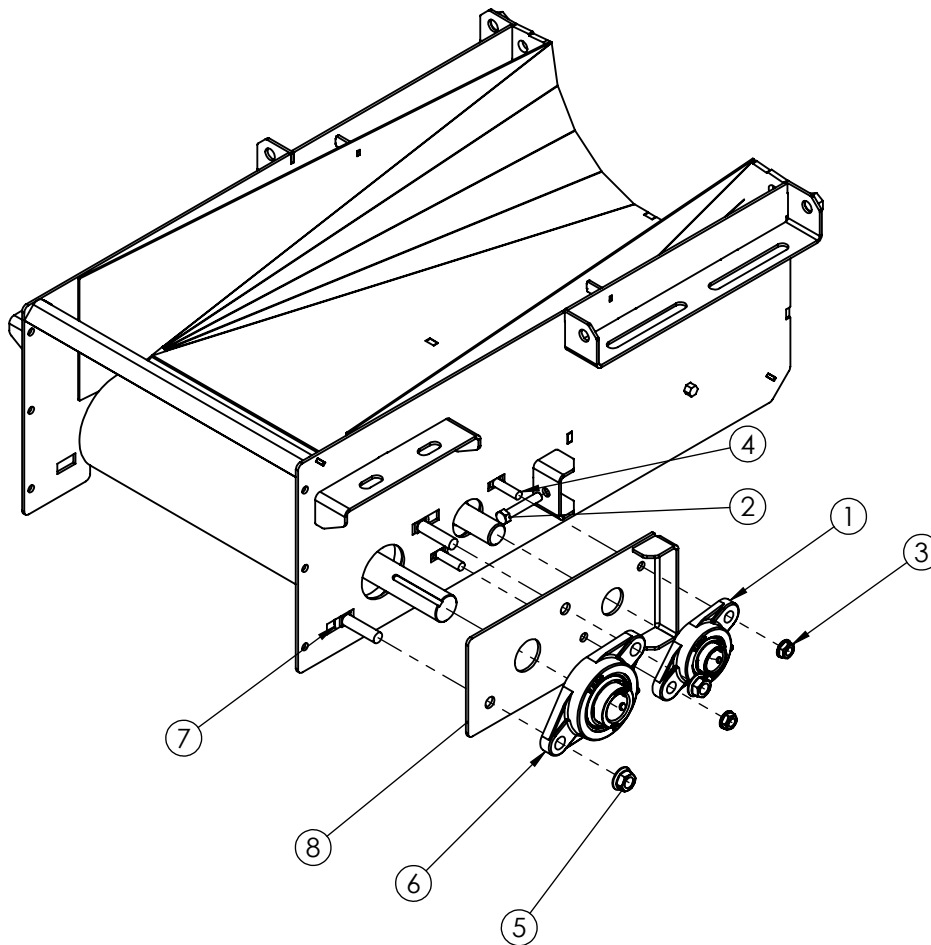


ASSEMBLY:

1. PLACE PULLEY ② INTO FRAME AND INCERT SHAFT ④ AND KEY.
2. INCERT ③ INTO FRAME.

HEAD BEARINGS

ITEM	PART NUMBER	DESCRIPTION	QTY
1	72701	BRG,1.000,2BFL,SET-SCREW,PEER	1
2	30719	BOLT,HH-TAP,0.375-16X2.00,ZP	1
3	30150	NUT,HEXFLANGE,0.375-16,ZP	2
4	58546	BOLT, CB, 0.375-16X1.5, SHRTNK, ZP, GR5	2
5	57655	NUT,HEXFLANGE,0.500-13,ZP	2
6	72704	BRG,1.250,2BFL,SET-SCREW,PEER	1
7	58061	BOLT,CB,0.50-13X2.00,SHRTNK,ZP	2
8	73100	SLIDE,BRG,HEAD,HBC,CS	1

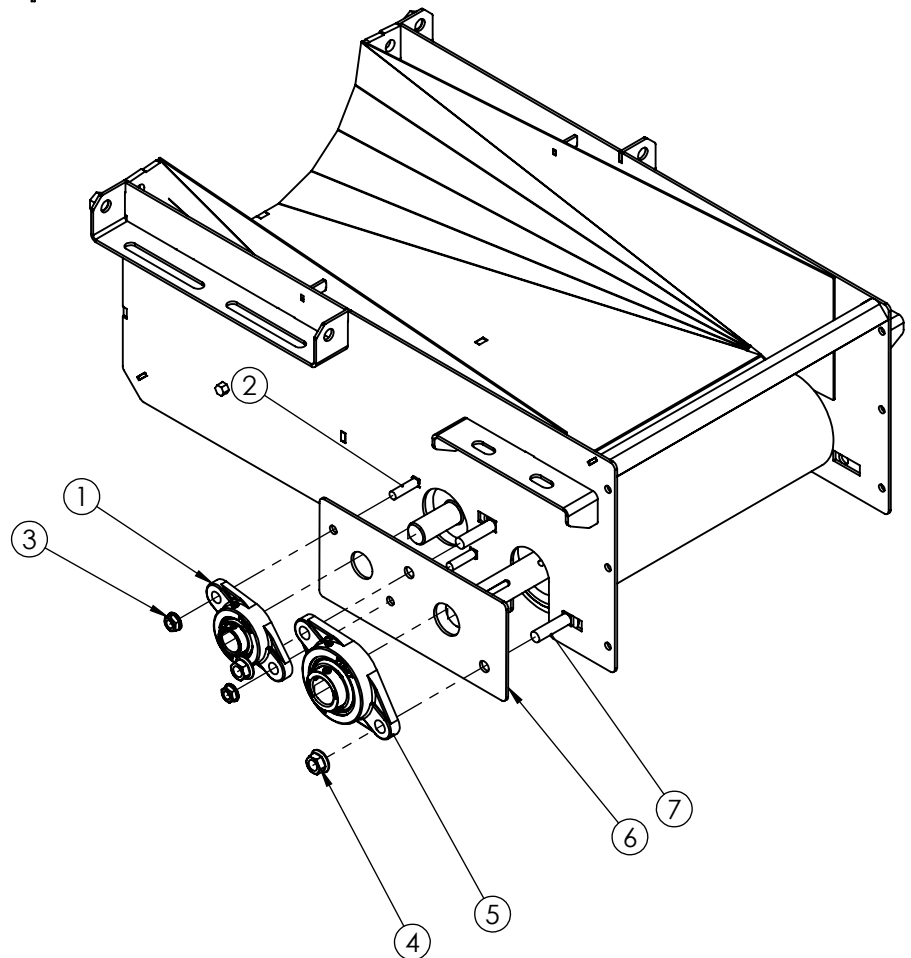
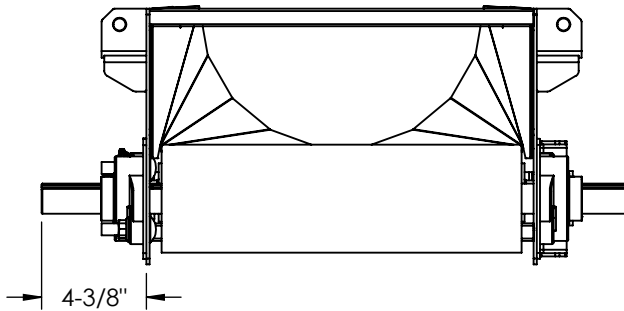


ASSEMBLY:

1. THREAD (2) INTO HEAD FRAME.
2. SLIDE (1), (6), AND (8) ONTO THE SHAFT. USEING HARDWARE (4), (3), (7), AND (5).
DO NOT TIGHTEN ALL THE WAY.

HEAD BEARINGS

ITEM	PART NUMBER	DESCRIPTION	QTY
1	72701	BRG,1.000,2BFL,SET-SCREW,PEER	1
2	58546	BOLT, CB, 0.375-16X1.5, SHRTNK, ZP, GR5	2
3	30150	NUT,HEXFLANGE,0.375-16,ZP	2
4	57655	NUT,HEXFLANGE,0.500-13,ZP	2
5	72704	BRG,1.250,2BFL,SET-SCREW,PEER	1
6	73101	COVER,HEADSHAFT SEAL,HBC,CS	1
7	58061	BOLT,CB,0.50-13X2.00,SHRTNK,ZP	2

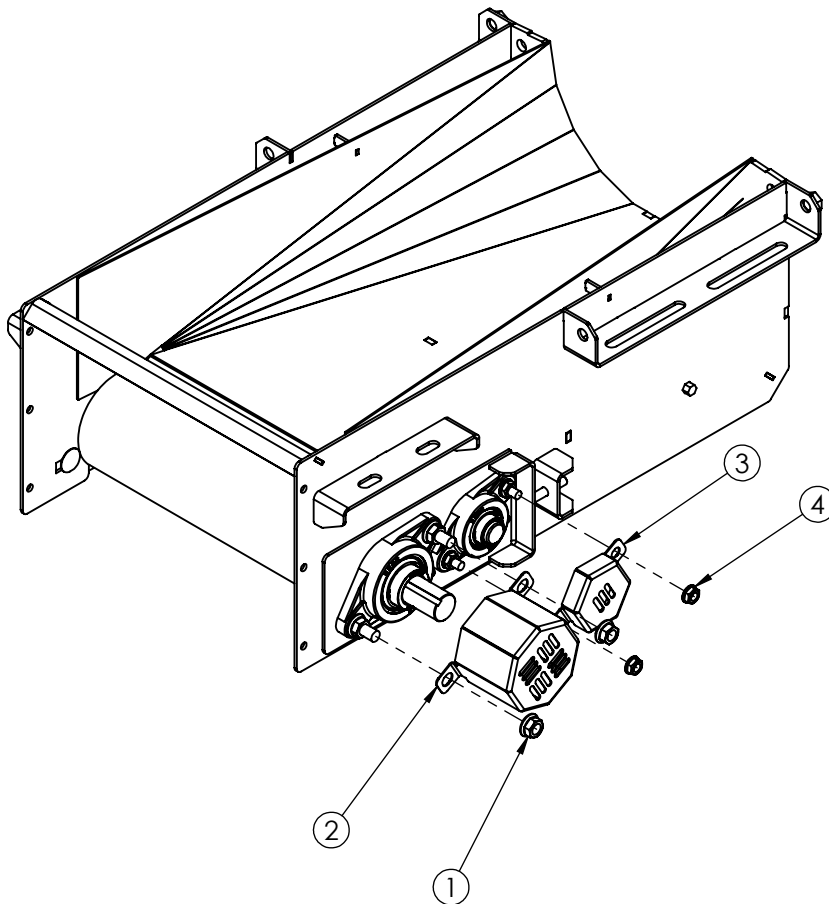


ASSEMBLY:

1. SLIDE ① ,⑤ ,AND ⑥ ONTO THE SHAFT. USING HARDWARE ④ , ⑦ , ③ , AND ② .
2. SLIDE SHAFT OUT TO DISTANCE SHOWN IN FIGURE 1. TIGHTEN SHAFT SET SCREWS.
3. SLIDE PULLEY SO THAT IT IS CENTERED IN THE HEAD FRAME. TIGHTEN THE PULLEY SET SCREWS.

BEARING GUARDS

ITEM	PART NUMBER	DESCRIPTION	QTY
1	57655	NUT,HEXFLANGE,0.500-13,ZP	2
2	69883	GUARD,BEARING,2BFL,1-1/4",CS	1
3	68600	GUARD,BEARING,2&4BFL,1",CS	1
4	30150	NUT,HEXFLANGE,0.375-16,ZP	2

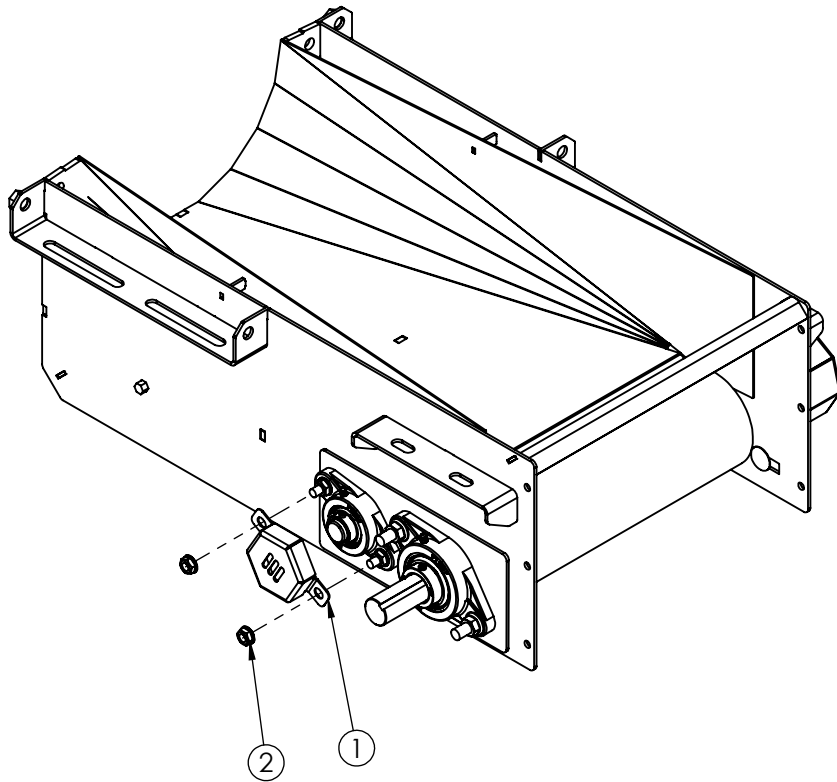


ASSEMBLY:

1. MAKE SURE PULLEY IS PARALLEL WITH THE HEAD FRAME AND TIGHTEN BEARING BOLTS.
2. ATTACH ② AND ③ USING ① AND ④ .

BEARING GUARDS

ITEM	PART NUMBER	DESCRIPTION	QTY
1	68600	GUARD,BEARING,2&4BFL,1",CS	1
2	30150	NUT,HEXFLANGE,0.375-16,ZP	2

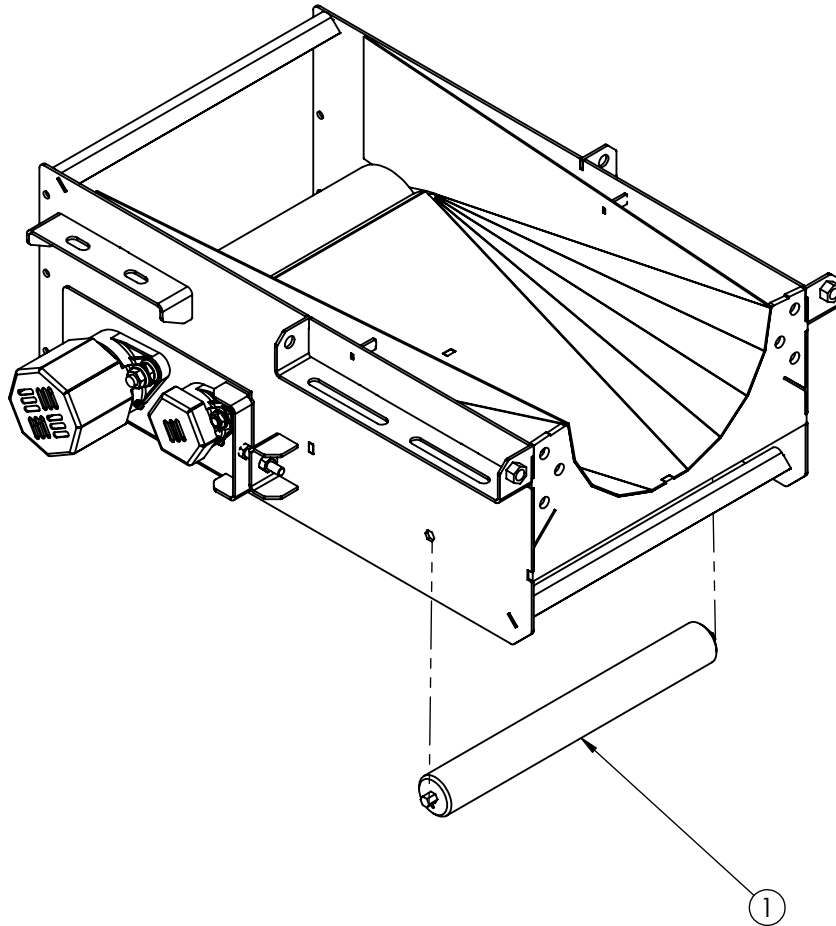


ASSEMBLY:

1. ATTACH ① USING ② .

RETURN ROLLER

ITEM	PART NUMBER	DESCRIPTION	QTY
1	57449	PULLEY,RETURN,1.9,BF16.00,CSS	1

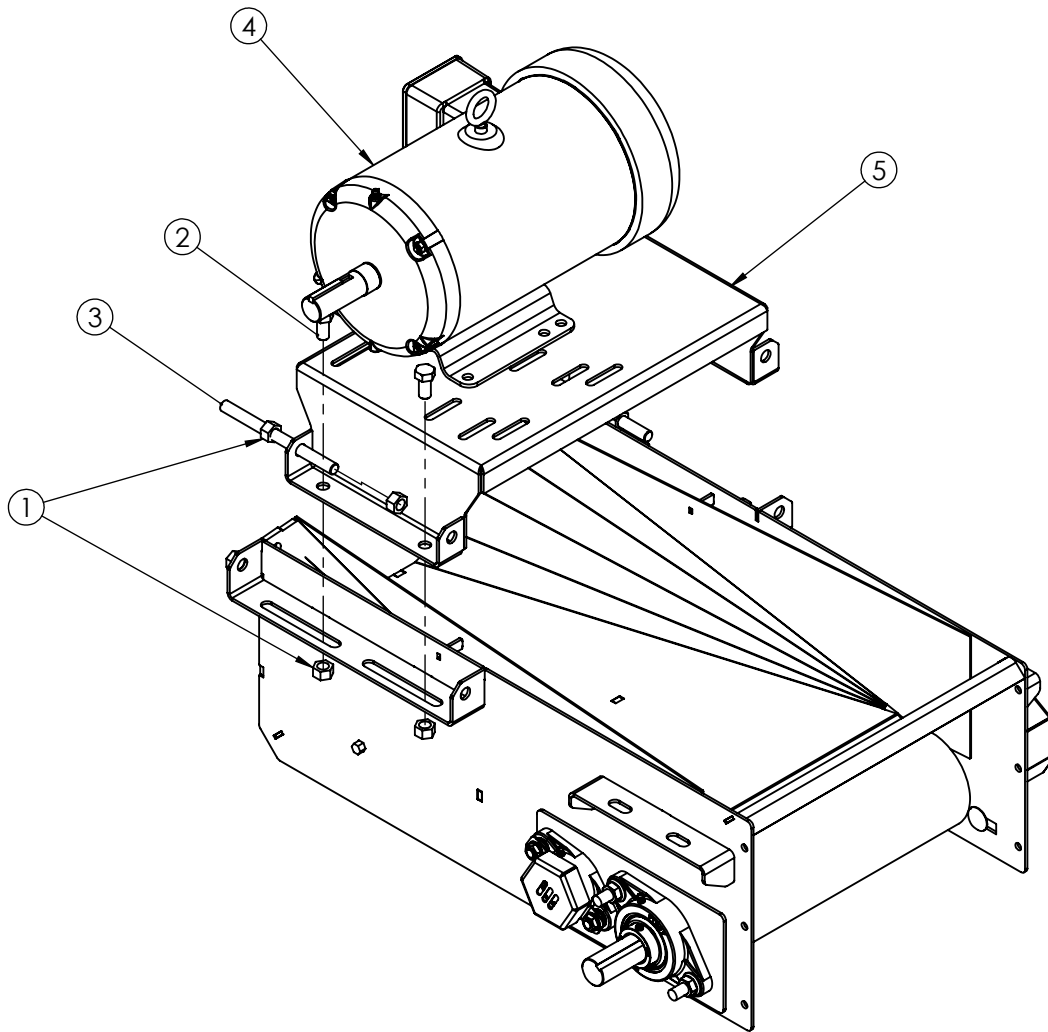


ASSEMBLY:

1. ASSEMBLE ① INTO HEAD FRAME.

MOTOR PAN

ITEM	PART NUMBER	DESCRIPTION	QTY
1	30155	NUT,HEX,0.500,ZP	9
2	30606	SCREW,HHCS,0.500-13X1.00,ZP	4
3	53606	ROD,THRD,0.50-13UNCX6.5,ZP	2
4	VARRIES	MOTOR	1
5	73700	MOUNT,MOTOR,HBC,CS	1



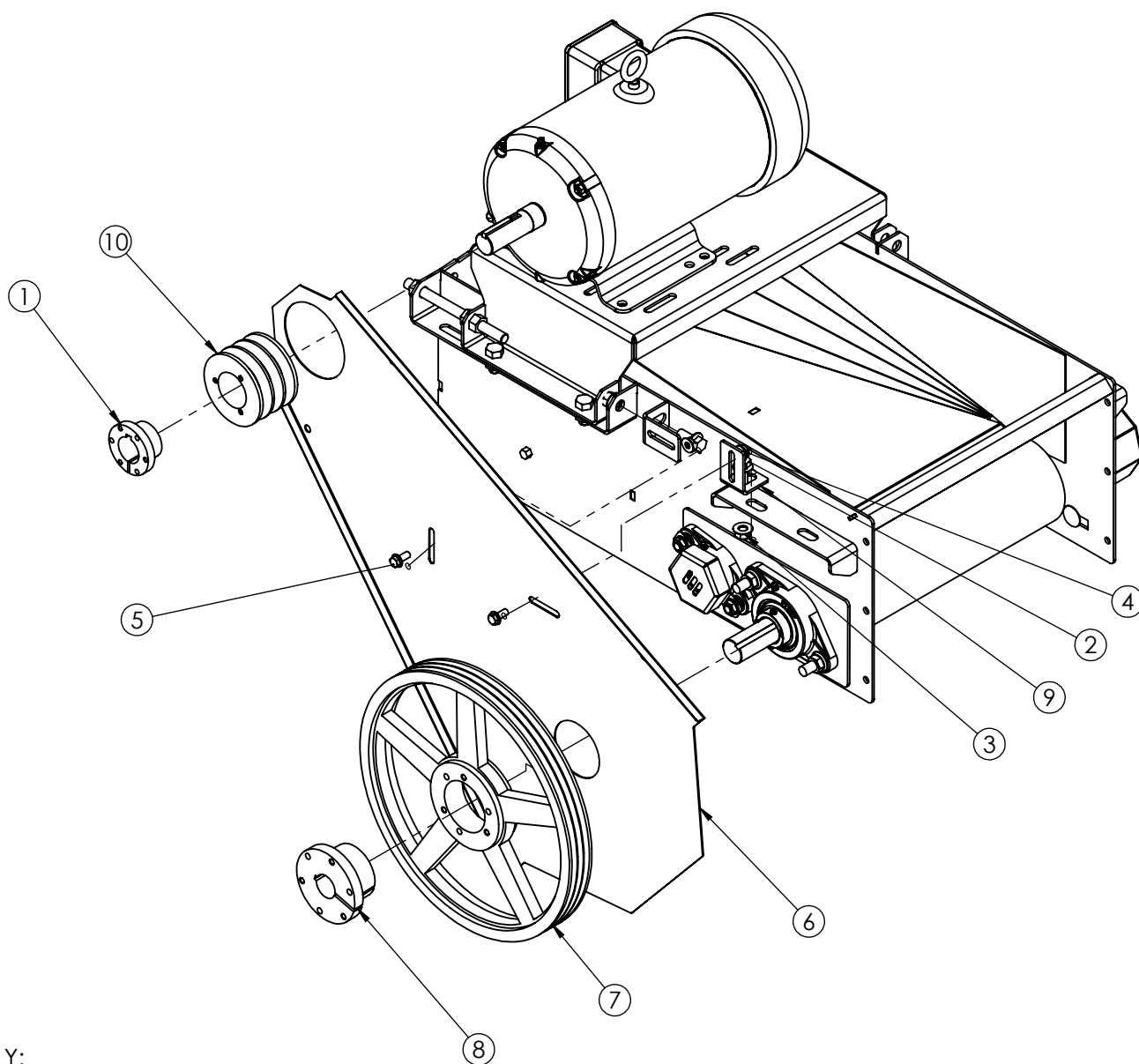
ASSEMBLY:

1. ASSEMBLE MOTOR PLATE (5) USING (1) AND (2) .
2. INSTALL MOTOR PLATE MOVER BOLT (3) AND (1) .
3. IF UNIT HAS MOTOR INSTALL AS SHOWN.

SHEAVES

**IF MOTOR IS INSTALLED ONSITE,
PACKAGE THE FOLLOWING
COMPONENTS FOR SHIPPING.**

ITEM	PART NUMBER	DESCRIPTION	QTY
1	VARRIES	BUSHING,QD,SH	1
2	57814	SCREW,HFHCS,0.4375-14X1.00,ZP	2
3	57815	NUT,HEXFLANGE,0.4375-14,ZP	2
4	30152	NUT,HEXFLANGE,0.312-18,ZP	2
5	30407	SCREW,HFHCS,0.312-18X0.75,ZP	2
6	73691	GUARD.DRIVE,BACK,HBC,CS	1
7	31110	SHEAVE,3GR,3V14.00,QD,SK	1
8	30799	BUSHING,QD,SK,1.250	1
9	73695	PANEL,REC,10X4.0X1.50,CS	2
10	31093	SHEAVE,3GR,3V3.00,QD,SH	1



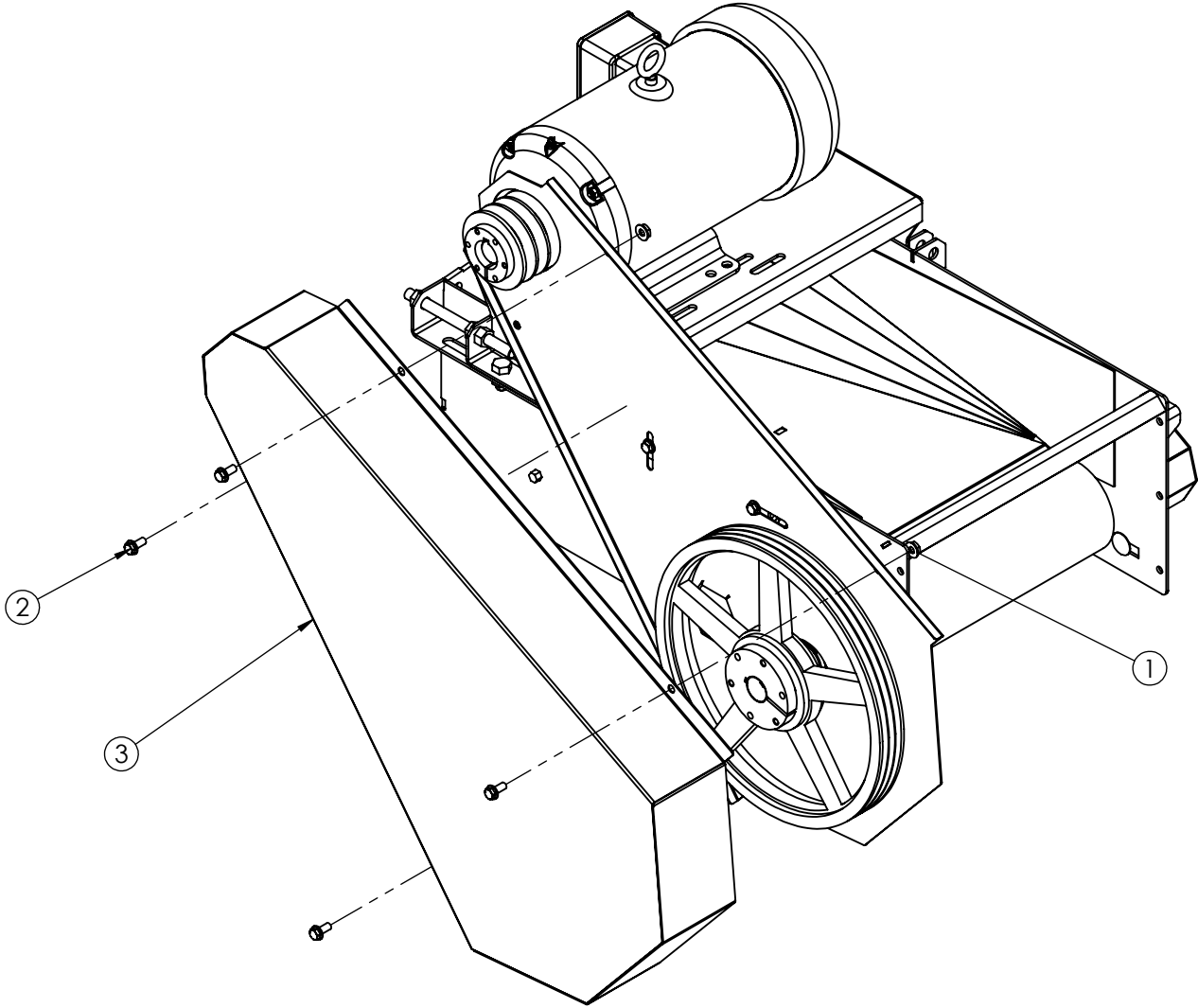
ASSEMBLY:

1. INSTALL (6) USING BRACKETS (9) AND HARDWARE (4) , (2) , (5) , AND (3) LEAVE BOLTS LOOSE .
2. INSTALL ITEM USING (8) , MAKE FLUSH WITH END OF SHAFT AND TIGHTEN.
3. INSTALL ITEM (10) USING (1) AND SLIDE MOTOR SO THAT SHEAVES ARE PARALLEL.. TIGHTEN BOLTS ON BUSHING AND MOTOR.
4. INSTALL V-BELTS (30896) AND TIGHTEN BY SLIDEING MOTOR PLATE BACK. TIGHTEN ALL BOLTS ON MOTOR PLATE.

V-BELT GUARD

IF MOTOR IS INSTALLED ONSITE,
PACKAGE THE FOLLOWING
COMPONENTS FOR SHIPPING.

ITEM	PART NUMBER	DESCRIPTION	QTY
1	30152	NUT,HEXFLANGE,0.312-18,ZP	4
2	30407	SCREW,HFHC,0.312-18X0.75,ZP	4
3	73694	GUARD,WLD,DRIVE,HBC,CS	1



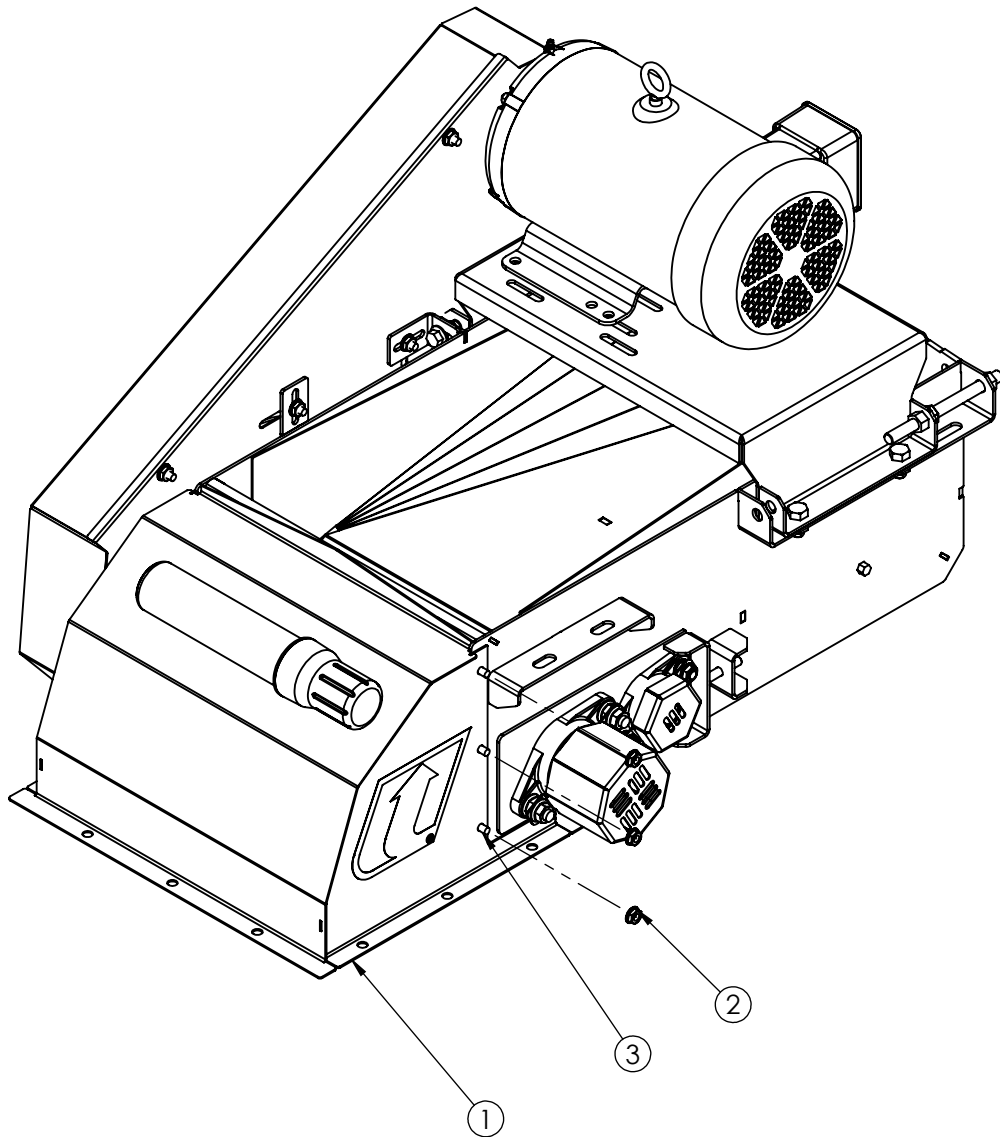
ASSEMBLY:

1. INSTALL (3) USING (2) AND (1).

DISCHARGE

PACKAGE THE FOLLOWING
COMPONENTS FOR SHIPPING.

ITEM	PART NUMBER	DESCRIPTION	QTY
1	76128	DISCHARGE,HEAD,HBCT15,90 DEG,CS	1
2	30152	NUT,HEXFLANGE,0.312-18,ZP	6
3	30407	SCREW,HFHCS,0.312-18X0.75,ZP	6



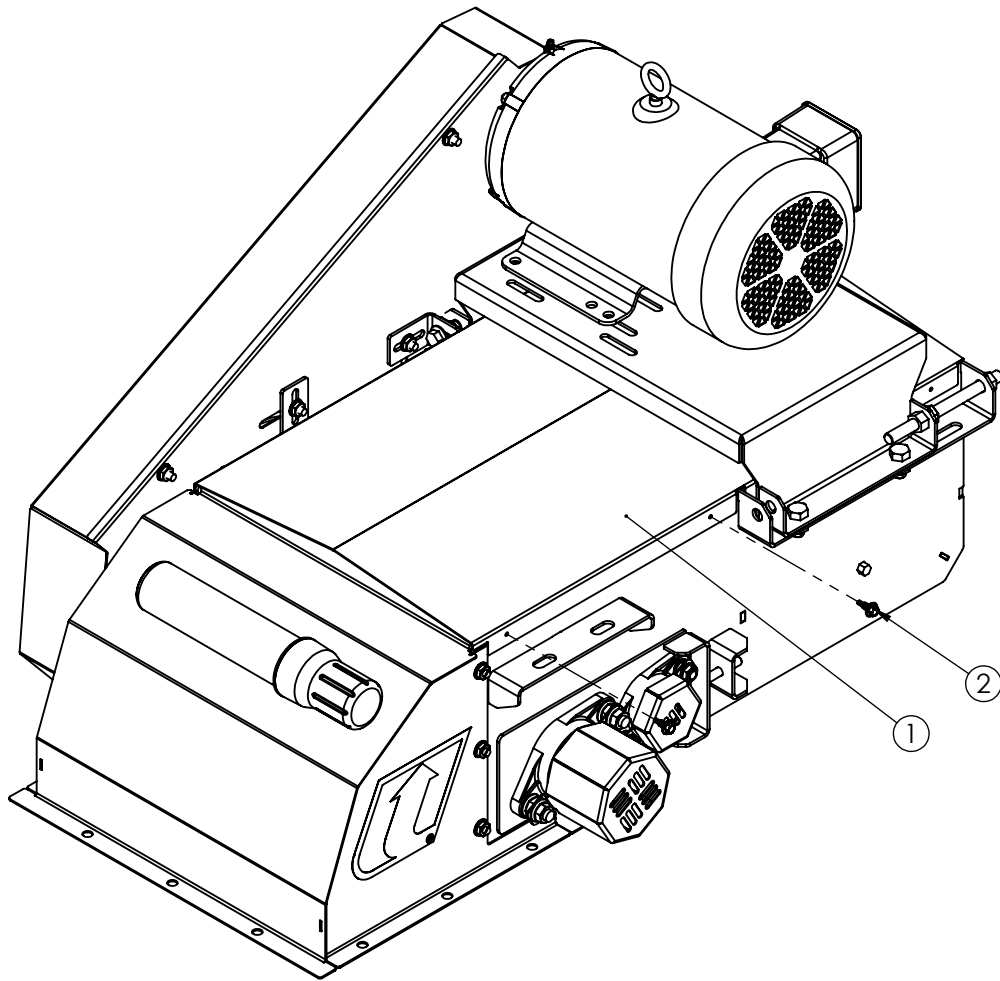
ASSEMBLY:

1. INSTALL ① USING ③ AND ② .

TOP COVER

PACKAGE THE FOLLOWING
COMPONENTS FOR SHIPPING.

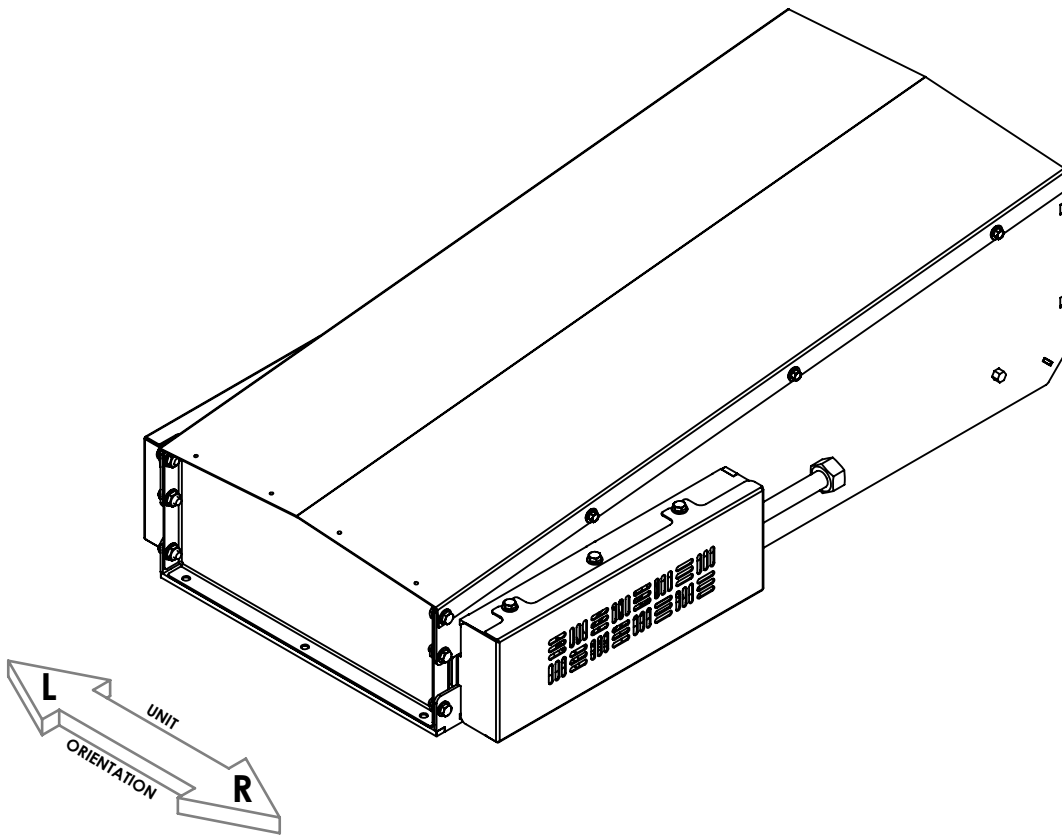
ITEM	PART NUMBER	DESCRIPTION	QTY
1	73088	COVER,HEAD,HBC,GS	1
2	72427	SCREW,SDS3,HWH,0.25-14X0.75,ZP	4



ASSEMBLY:

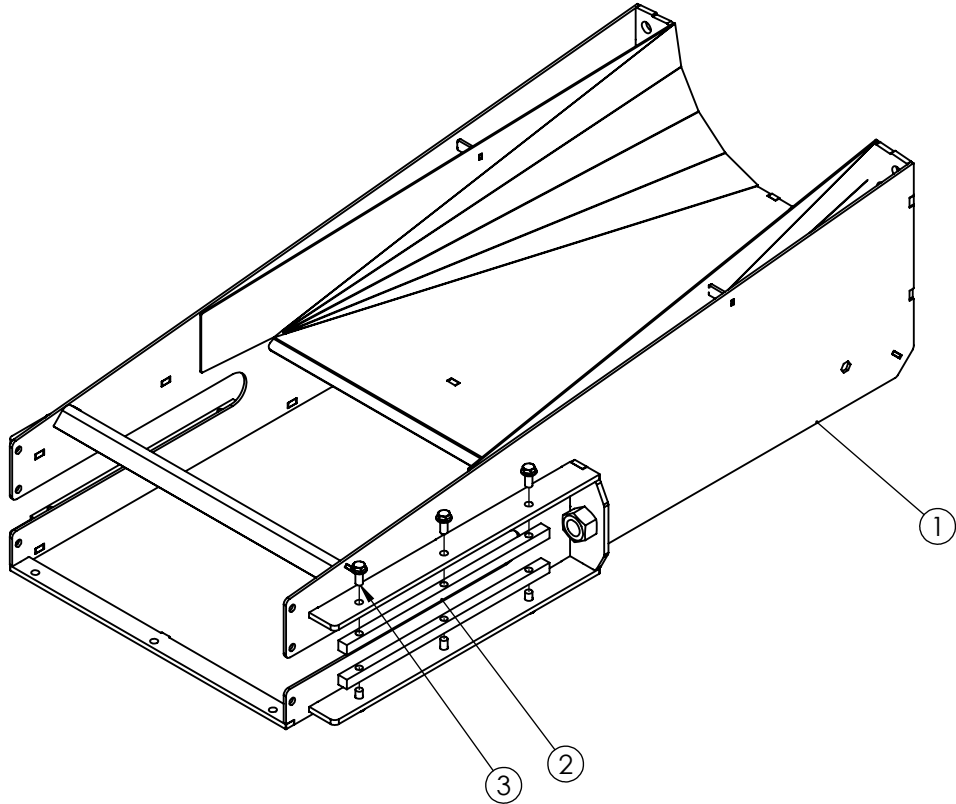
1. INSTALL ① USING ② .

HBC TAIL ASSEMBLY AND PARTS



TAKE-UP RAIL

ITEM	PART NUMBER	DESCRIPTION	QTY
1	73082	FRAME, TAIL, HBC, CS	1
2	34167	RAIL, BEARING, BOOT, U2, CS	4
3	30407	SCREW, HFHCS, 0.312-18X0.75, ZP	12

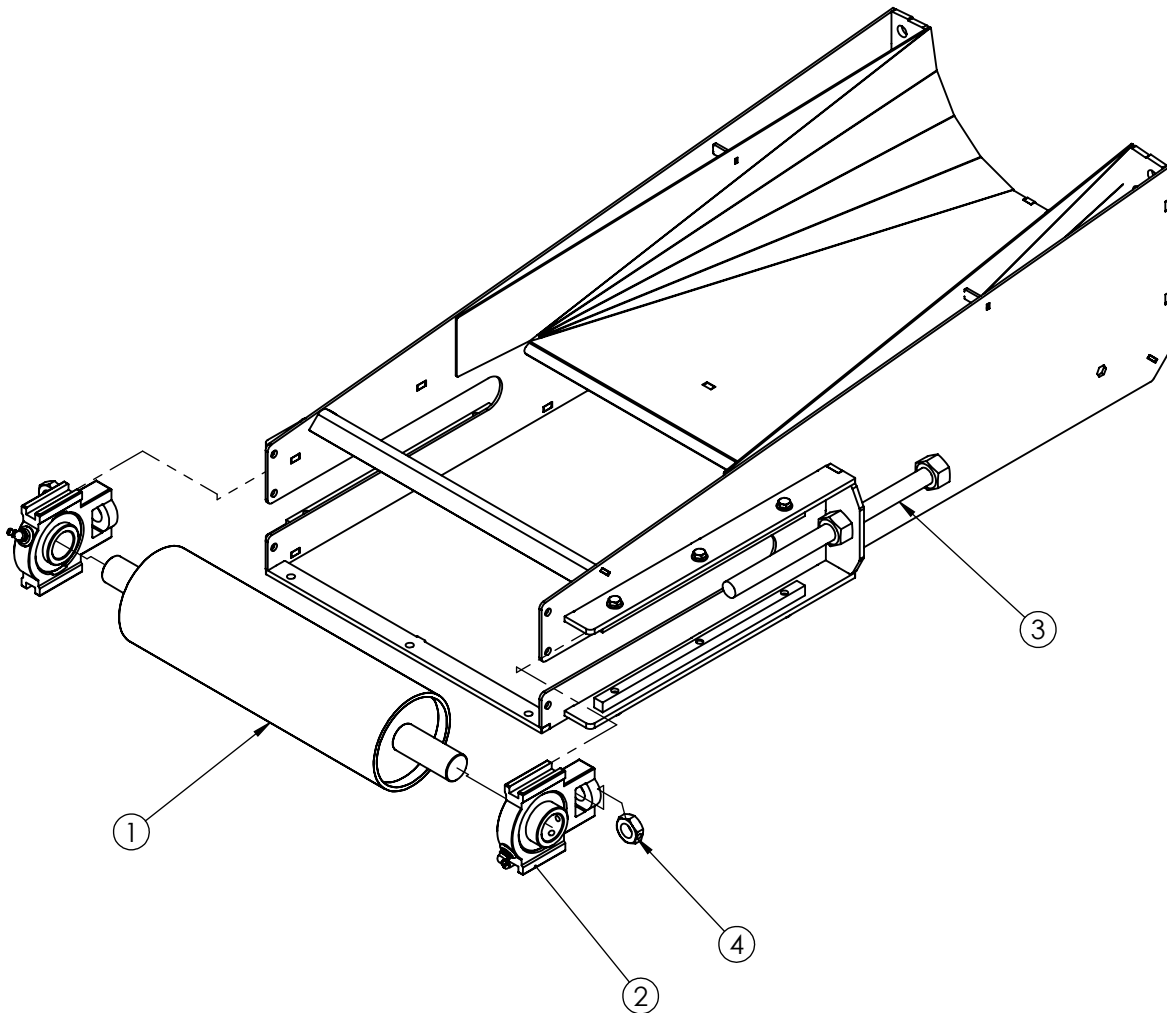


ASSEMBLY:

1. BOLT ON TAKE-UP RAIL (2) USING (3) .

PULLEY AND SHAFT

ITEM	PART NUMBER	DESCRIPTION	QTY
1	66245	PULLEY&SHAFT,WLD,4.50X20.31	1
2	72724	BRG,1.25,TAKEUP,SET-SCREW	2
3	35465	BOLT,ASSY,TU,0.75-6ACMEX12.38,HH,CS	2
4	34151	NUT,LIFT,BOOT,U2,MPK,CS	2

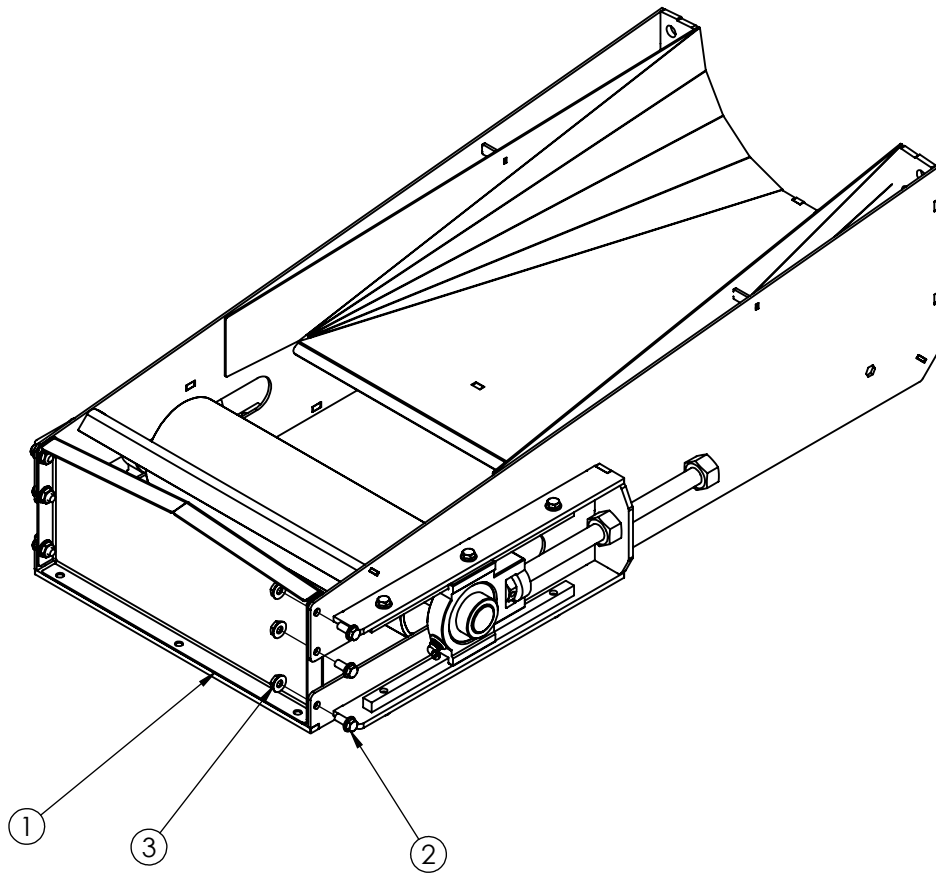


ASSEMBLY:

1. ASSEMBLE BEARINGS (2) ONTO SHAFT (1), AND SLIDE BEARING RAILS ON TAIL FRAME.
2. THREAD TAKEUP BOLT (3) INTO NUT (4) UNTIL IT IS PRESSING INTO BEARING HOUSING, TIGHTEN (4) SET SCREW.
3. CENTER PULLEY IN FRAME AND TIGHTEN BEARING SET SCREWS.

TAIL COVER

ITEM	PART NUMBER	DESCRIPTION	QTY
1	73099	COVER,END,TAIL,HBC,CS	1
2	30407	SCREW,HFHCS,0.312-18X0.75,ZP	6
3	30152	NUT,HEXFLANGE,0.312-18,ZP	6

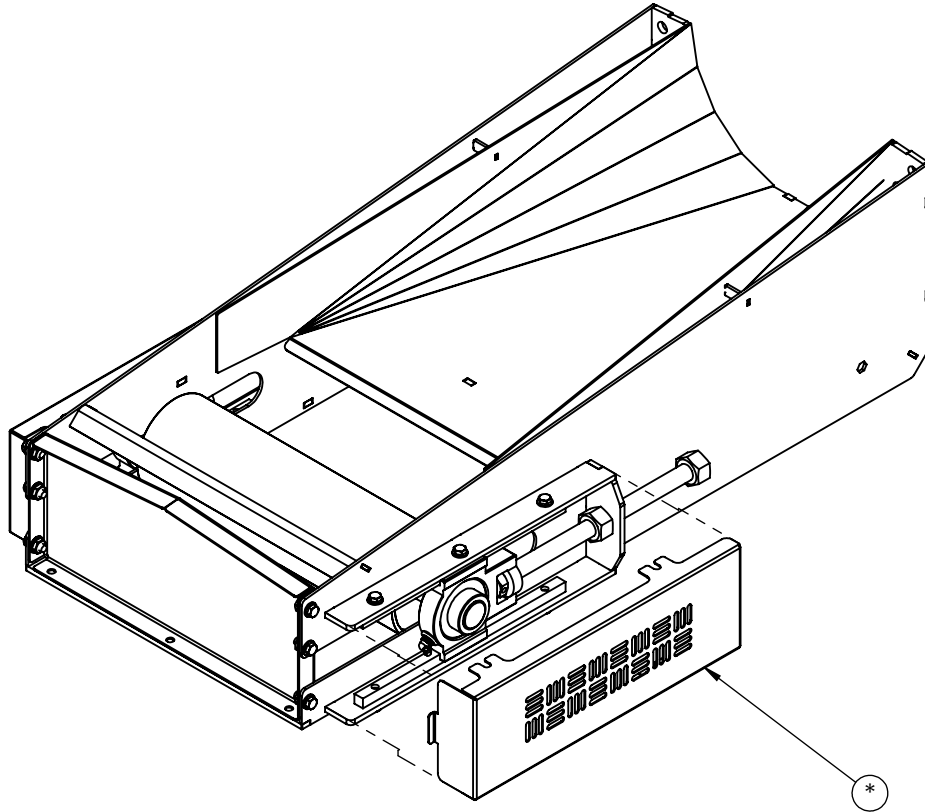


ASSEMBLY:

1. BOLT ON ① USING ③ AND ② .

TAKE UP GUARD

ITEM	PART NUMBER	DESCRIPTION	QTY
1	73103	GUARD,TAKE-UP,TAIL,HBC,CS	2



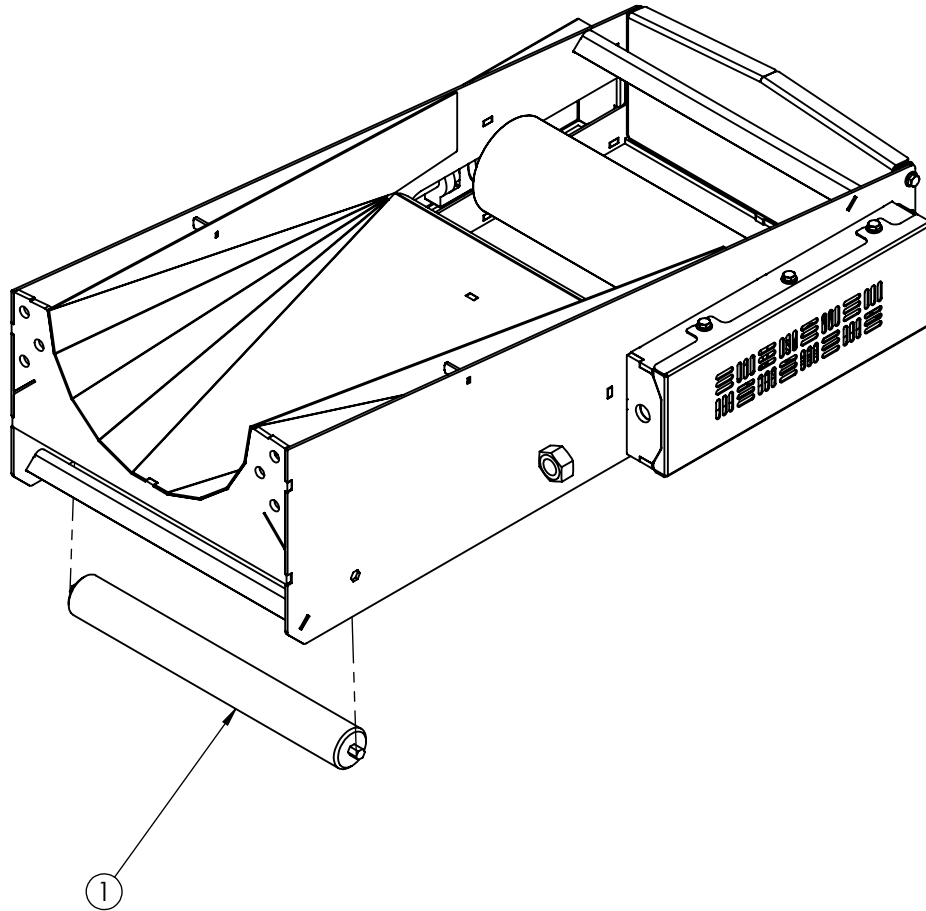
ASSEMBLY:

1. BOLT ON GUARD.

REV :

RETURN ROLLER

ITEM	PART NUMBER	DESCRIPTION	QTY
1	57449	PULLEY,RETURN,1.9,BF16.00,CSS	1

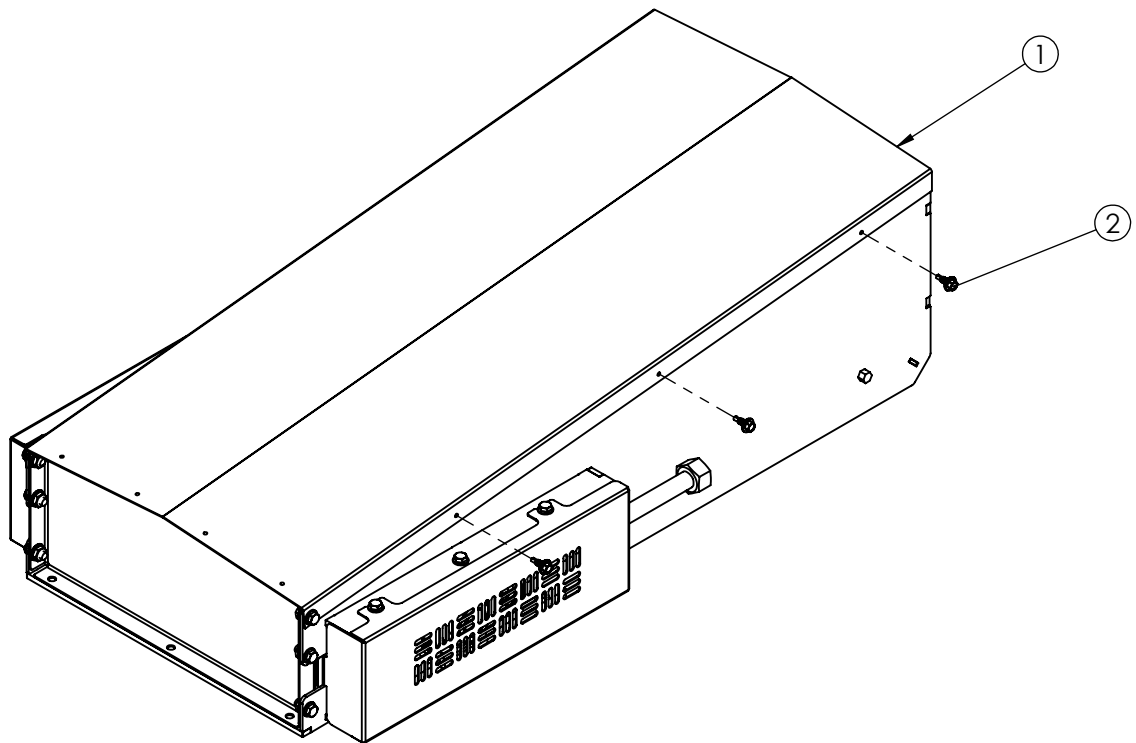


ASSEMBLY:

1. INSTALL RETURN ROLLER.

TAIL COVER

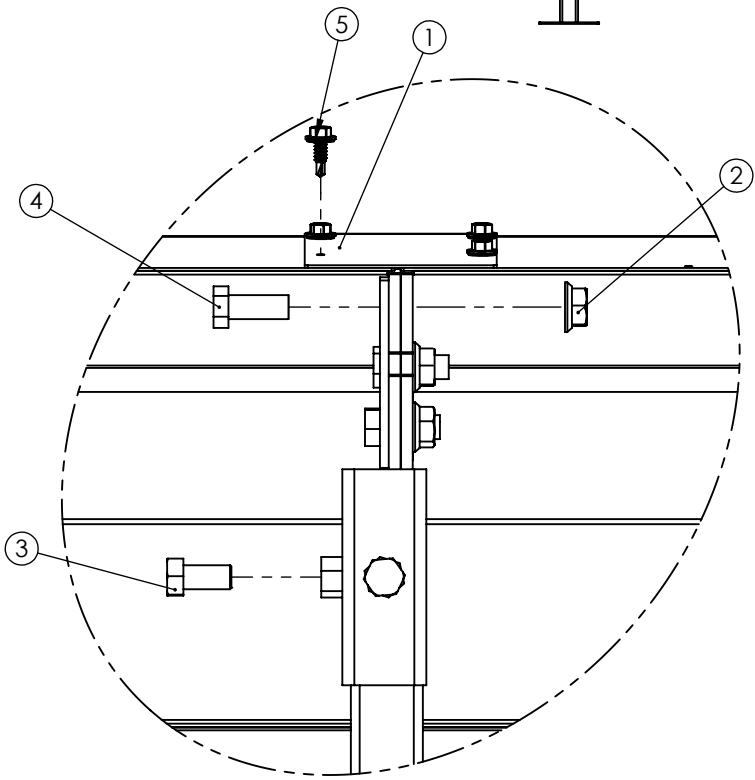
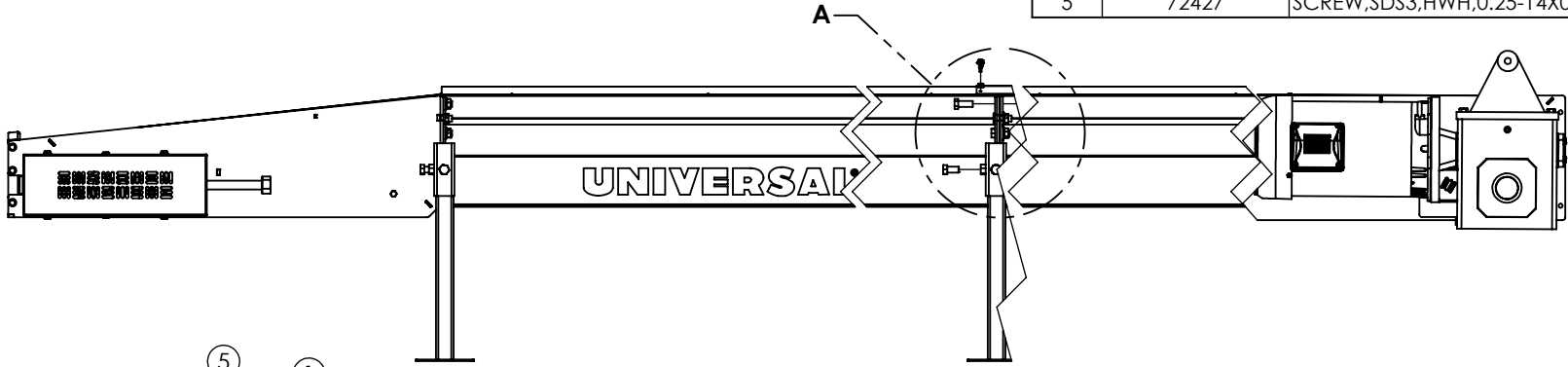
ITEM	PART NUMBER	DESCRIPTION	QTY
1	73090	COVER, TAIL, HBC, GS	1
2	72427	SCREW, SDS3, HWH, 0.25-14X0.75, ZP	6



ASSEMBLY:


1. INSTALL COVER ① USING ②.

ITEM	PART NUMBER	DESCRIPTION
1	73094	LAPSTRIP,COVER,HBC,GS
2	57655	NUT,HEXFLANGE,0.500-13,ZP
3	30606	SCREW,HHCS,0.500-13X1.00,ZP
4	30607	SCREW, HHCS, 0.500-13X1.25,ZP
5	72427	SCREW,SDS3,HWH,0.25-14X0.75,ZP

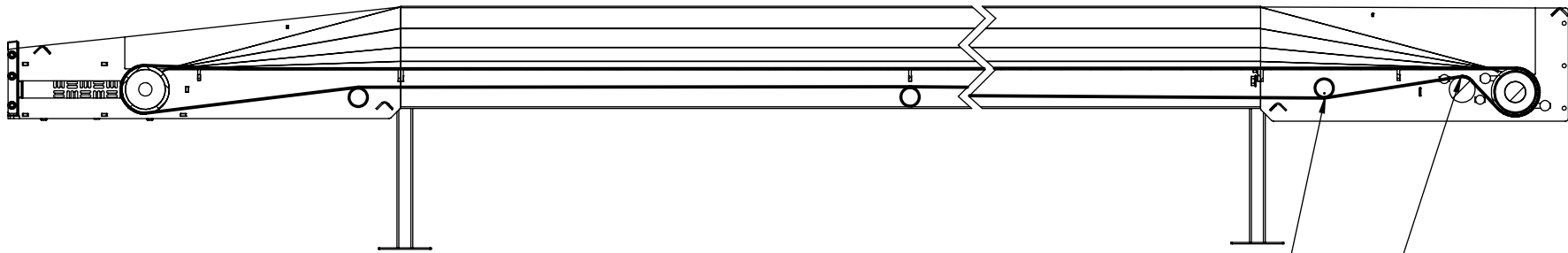
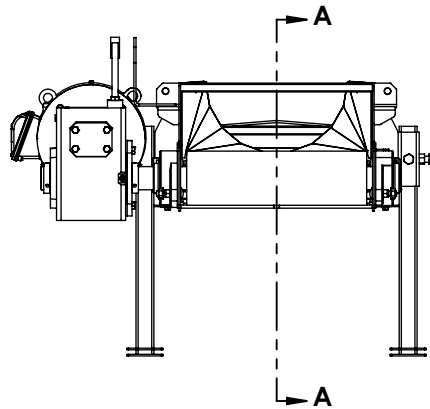


DETAIL A

PROPRIETARY AND CONFIDENTIAL:
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSAL INDUSTRIES, INC. CEDAR FALLS IA 50613. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSAL INDUSTRIES, INC. IS PROHIBITED.

 Universal Industries, Inc. Cedar Falls, IA 50613-0308	DATE DRAWN:	DIM TOLERANCE: UNLESS OTHERWISE SPECIFIED			
	DRAWN BY:	LINEAR	ANGULAR	HOLE	DECIMAL
	SCALE: NOT TO SCALE	±1/32	±1°	±1/64	.X = ±.010 .XX = ±.005 .XXX = ±.001
	WEIGHT: LBS	FIRST USE:			SHEETS: 1 OF 1
MATERIAL:					REV: 0
DESCRIPTION:		DRAWING NO. HBC_ASSEMBLY			

REV	ECO	DESCRIPTION	DATE	BY



SECTION A-A


BELT SHOULD TRAVEL
ALONG THE BOTTOM
OF ROLLER

BELT SHOULD TRAVEL
OVER THE TOP OF
SNUB PULLEY

BELT INSTALLATION

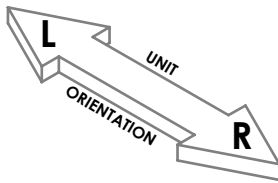
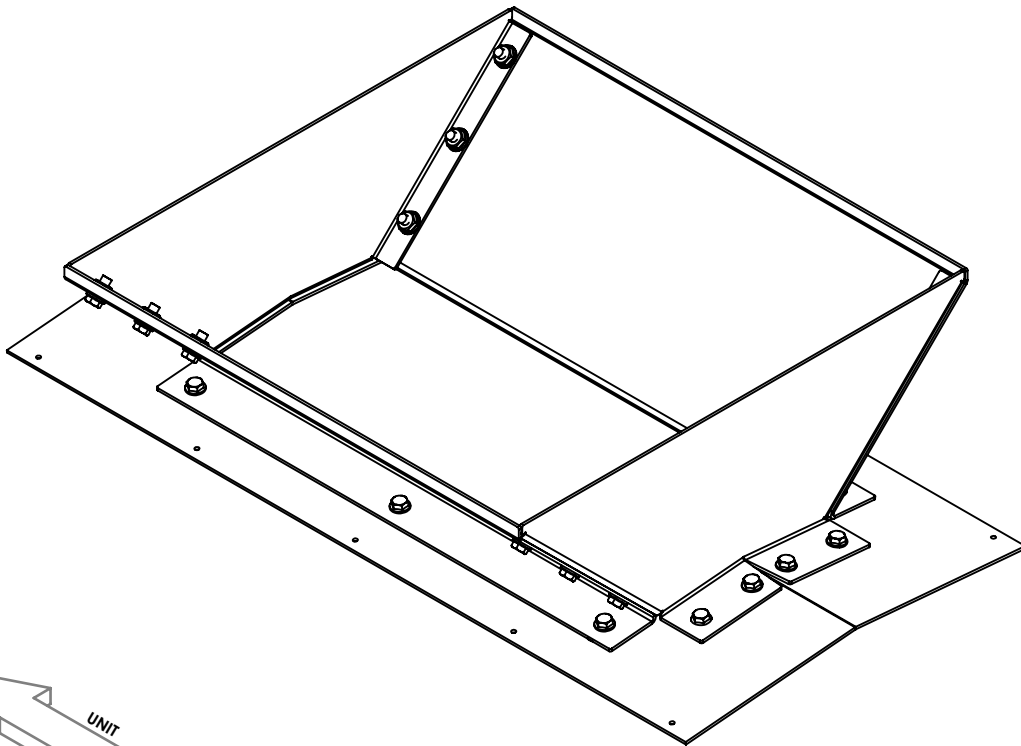
PROPRIETARY AND CONFIDENTIAL:

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSAL INDUSTRIES, INC. CEDAR FALLS IA 50613. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSAL INDUSTRIES, INC. IS PROHIBITED.

 Universal Industries, Inc. Cedar Falls, IA 50613-0308	DATE DRAWN: 12/22/2016	DIM TOLERANCE: UNLESS OTHERWISE SPECIFIED			
	DRAWN BY: BRB	LINEAR	ANGULAR	HOLE	DECIMAL
	SCALE: NOT TO SCALE	±1/32	±1°	±1/64	.X = ±.010 .XX = ±.005 .XXX = ±.001
WEIGHT: LBS	FIRST USE: HBC		SHEETS: 1 OF 1		
MATERIAL:	DESCRIPTION:		DRAWING NO.		
REV		ECO	DESCRIPTION	DATE	BY

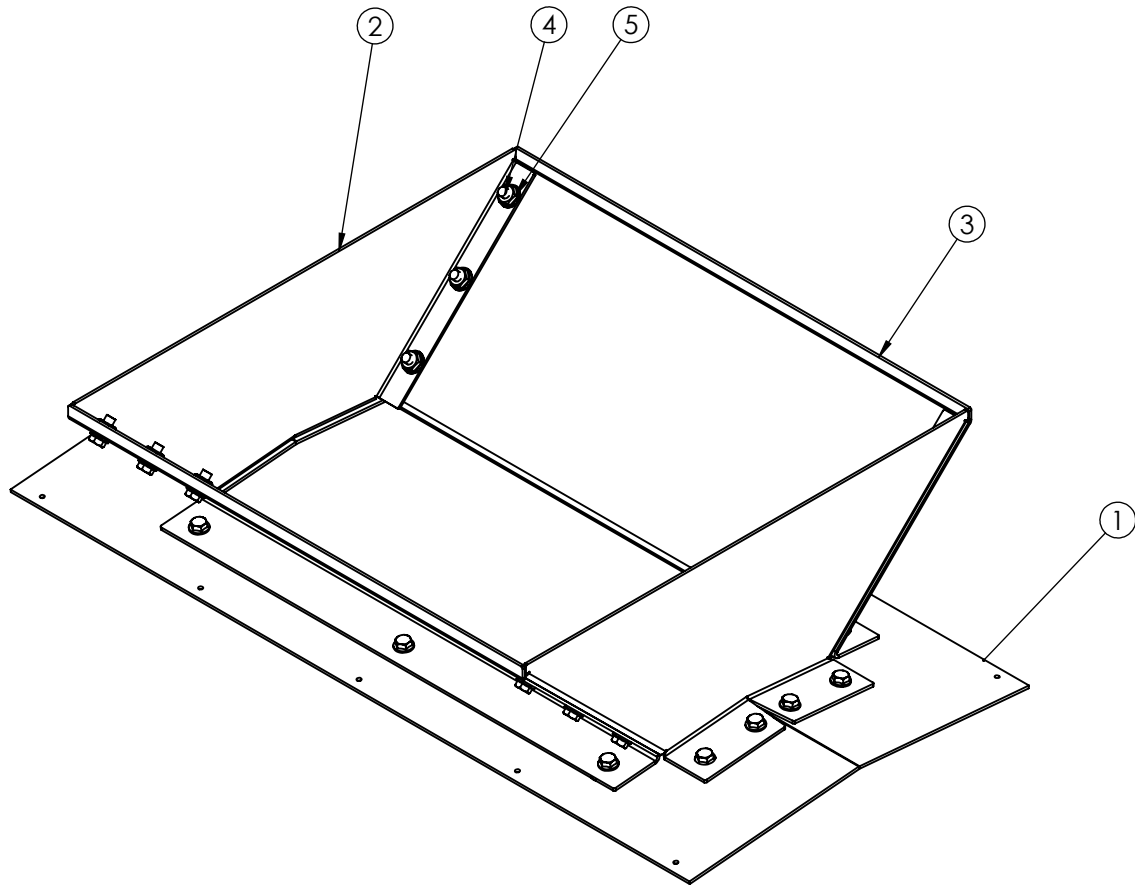
REV	ECO	DESCRIPTION	DATE	BY
-----	-----	-------------	------	----

BIN INLET ASSEMBLY AND PARTS



BIN INLET

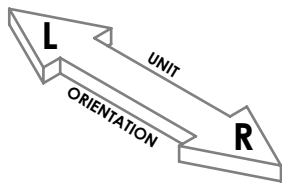
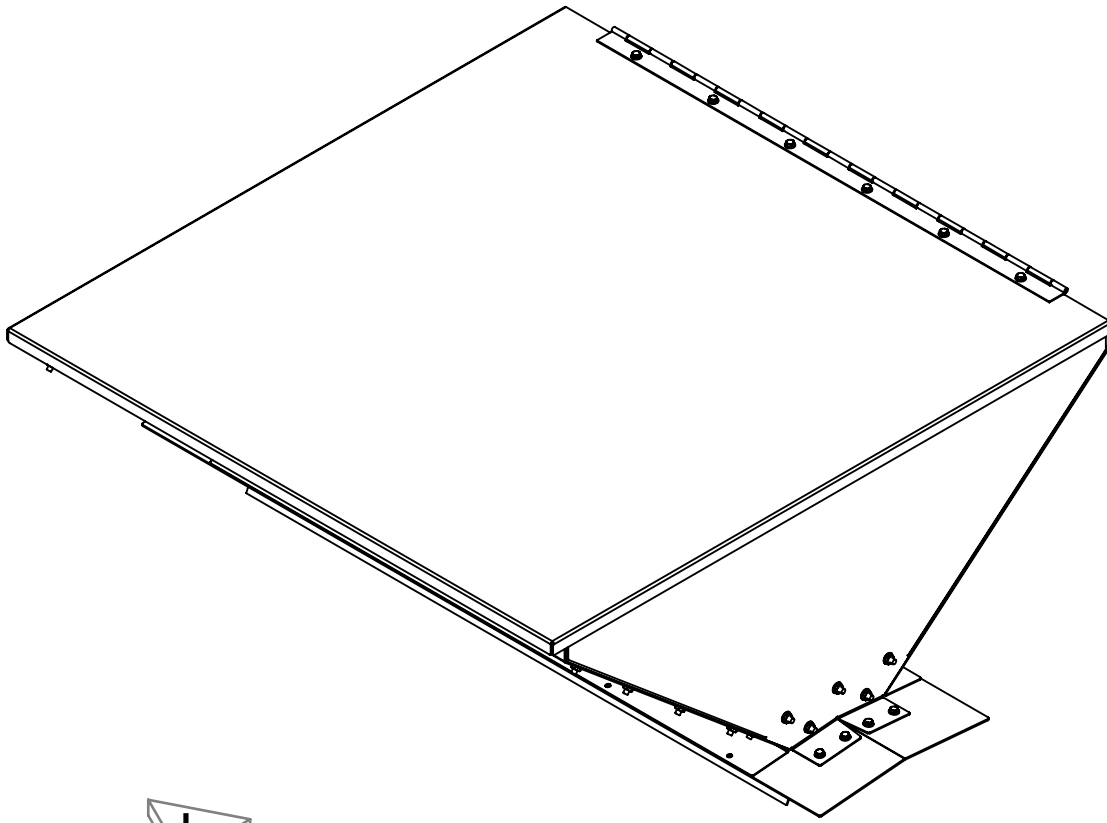
ITEM	PART NUMBER	DESCRIPTION	QTY
1	73588	SEAL,HOPPER,TROUGH,ASSY	1
2	73585	HOPPER,TROUGH,HBC,FRONT	2
3	73584	HOPPER,TROUGH,HBC,SIDE	2
4	30407	SCREW,HFHCS,0.312-18X0.75,ZP	26
5	30152	NUT,HEXFLANGE,0.312-18,ZP	12



ASSEMBLY:

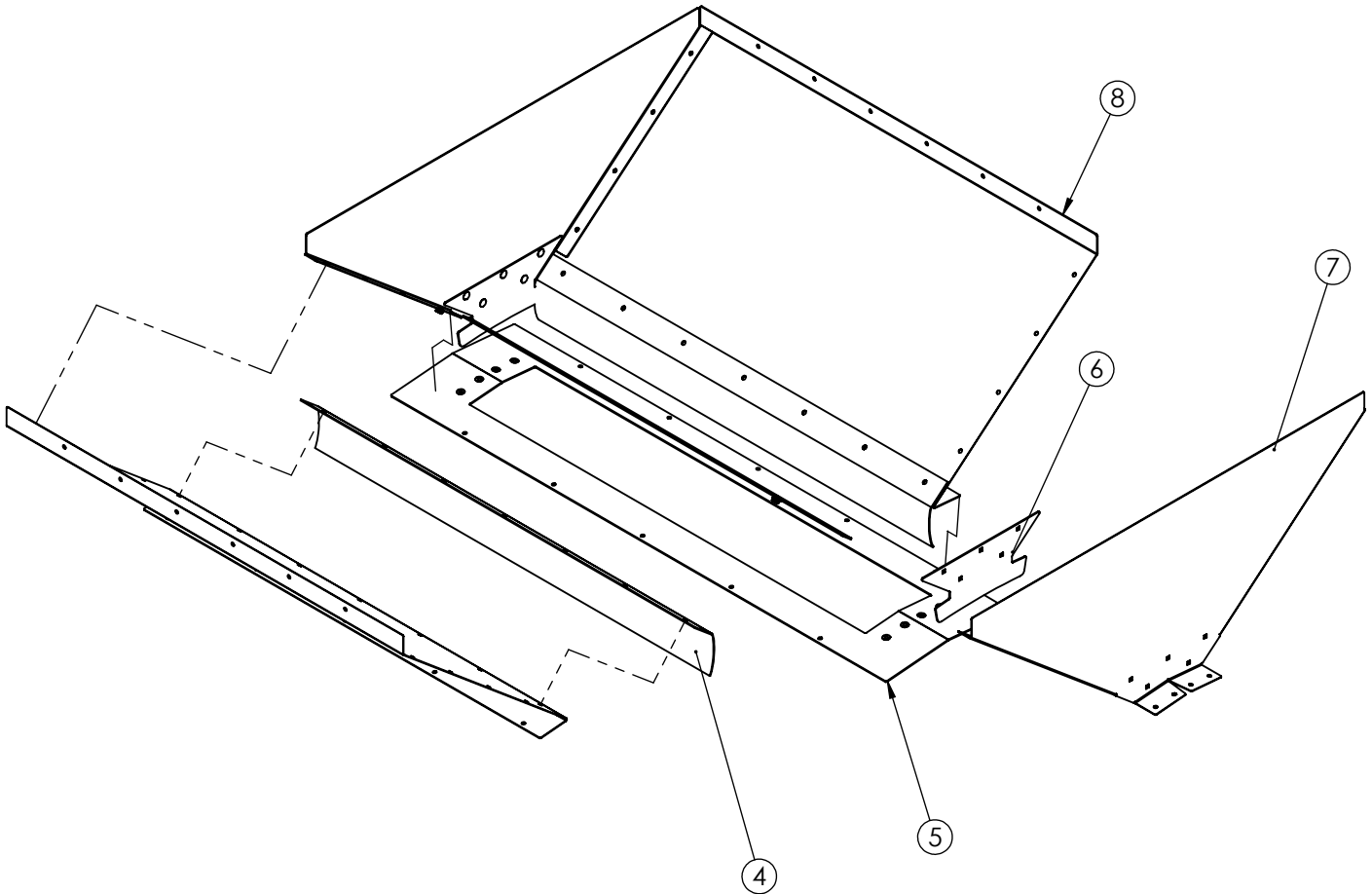
1. CUT COVERS SO THAT THERE IS A 24" GAP AT THE BIN INLET.
2. SET HOPPER SEAL ON TOP OF COVERS AND USE SELF TAPPING SCREWS TO SECURE SEAL TO CONVEYOR TROUGH.

4' X 4' DUMP HOPPER INLET W/LID ASSEMBLY AND PARTS (OPTIONAL)



DUMP HOPPER

ITEM	PART NUMBER	DESCRIPTION	QTY
1	76127	PANEL,REC,12GA,46.00X1.50,CS	2
2	73706	COVER,DUMP-HOPPER,HBC,CS	1
3	73705	HINGE,0.06THICKX40.00,CS	1
4	73704	SKIRT,60DURO-RUBBER,FEEDER	2
5	73703	SEAL,DUMP-HOPPER,TROUGH	1
6	73701	PLATE,BELT-FEEDER,HBC,CS	2
7	73699	HOPPER,DUMP,FRONT,HBC,CS	2
8	73698	HOPPER,DUMP,SIDE,HBC,CS	2
9	30429	BOLT,CB,0.3125-18X0.75,ZP	24
10	30407	SCREW,HFHCS,0.312-18X0.75,ZP	36
11	30152	NUT,HEXFLANGE,0.312-18,ZP	62

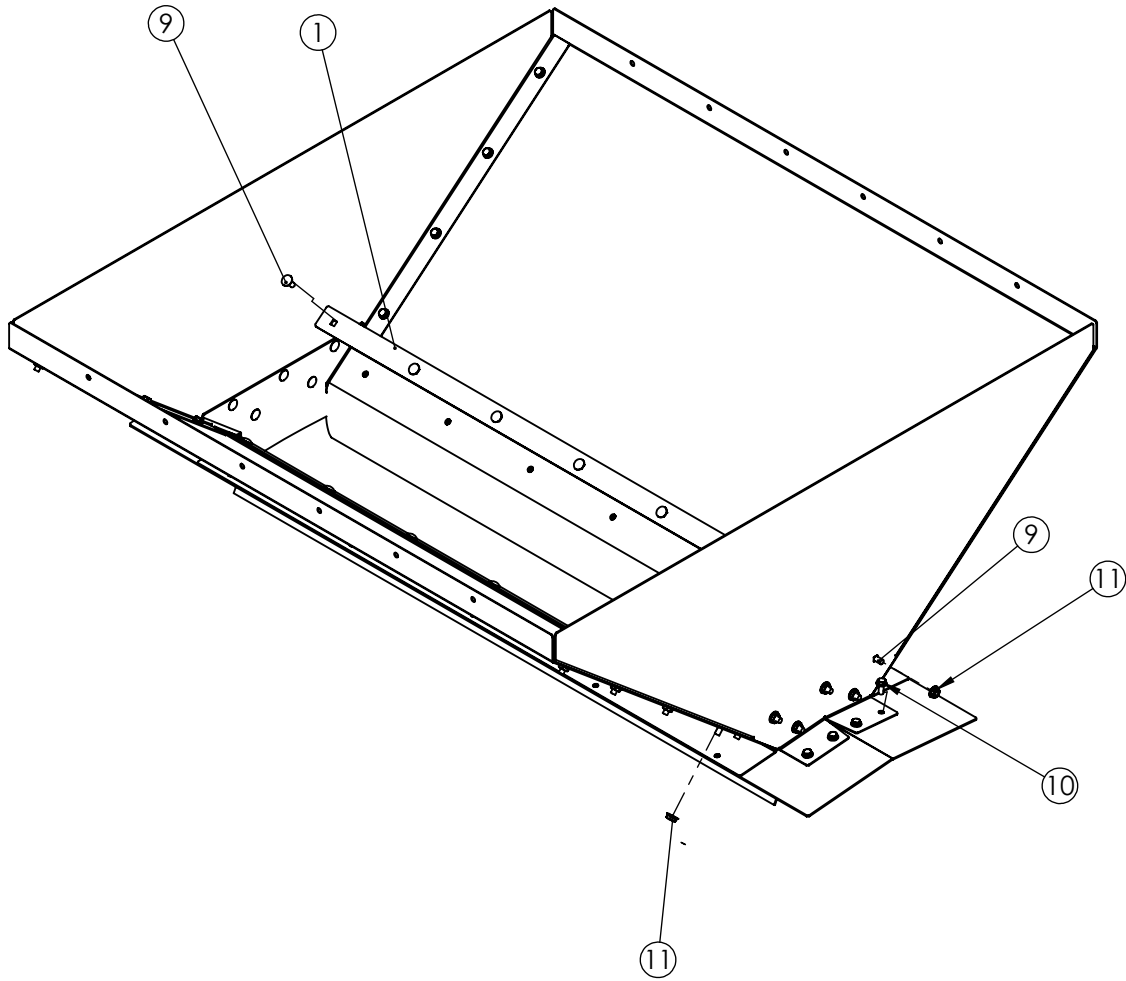


ASSEMBLY:

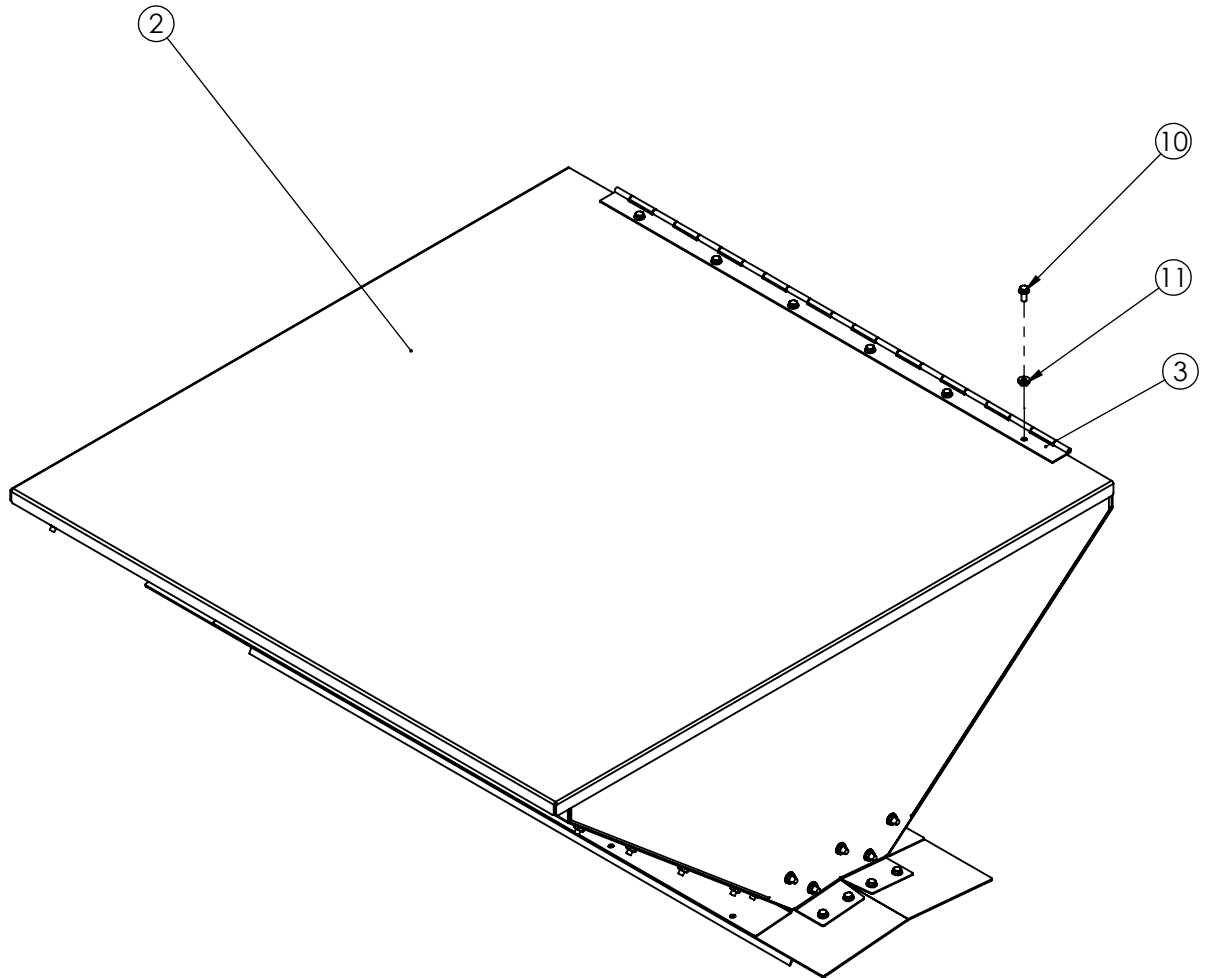
1. ASSEMBLE DUMP HOPPER AS SHOWN ON THIS AND NEXT TWO PAGES USING THE BILL ABOVE

REV:

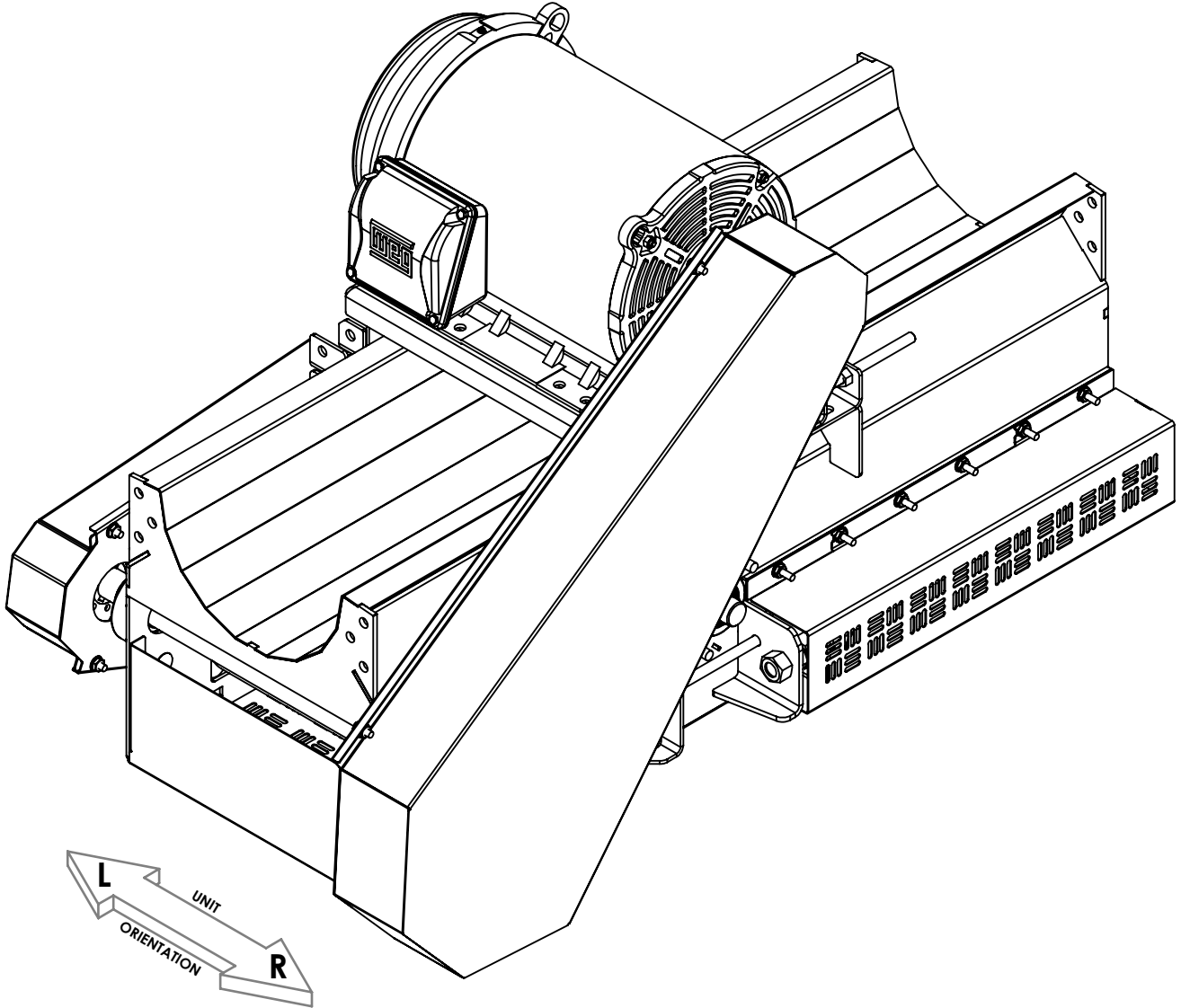
DUMP HOPPER



DUMP HOPPER

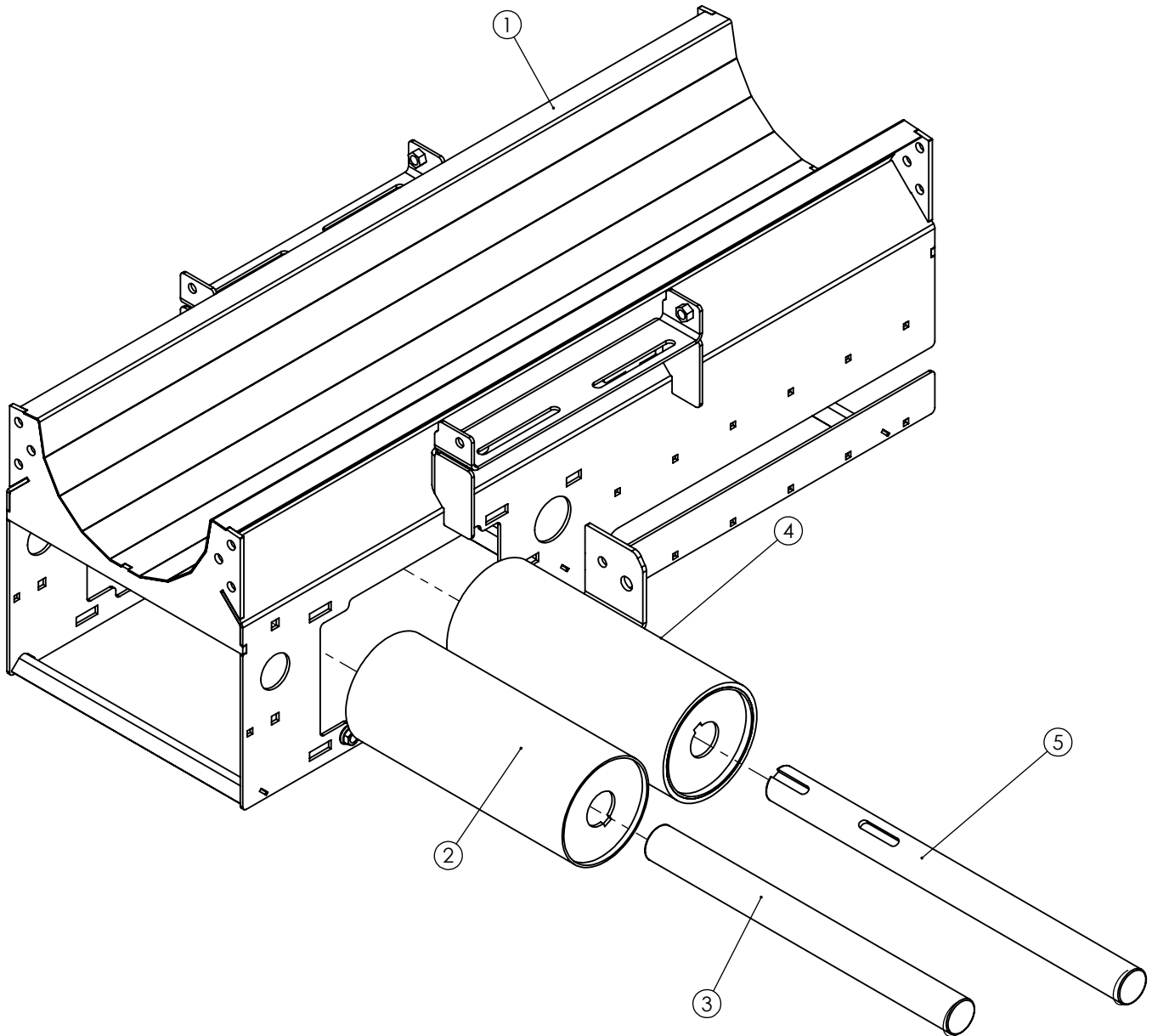


HBC CENTER DRIVE ASSEMBLY AND PARTS (OPTIONAL)



PULLEYS AND SHAFTS

ITEM	PART NUMBER	DESCRIPTION	QTY
1	74014	FRAME,CENTER-DRIVE,HBC,CS	1
2	75225	PULLEY,FF,DRUM,6.00X15.00,1.938	1
3	74022	SHAFT,CENTERDRIVE,1.94X21.0,CS	1
4	75224	PULLEY,CF,DRUM,6.00X15.00,1.938	1
5	74025	SHAFT,CENTERDRIVE,1.94X24.5,CS	1

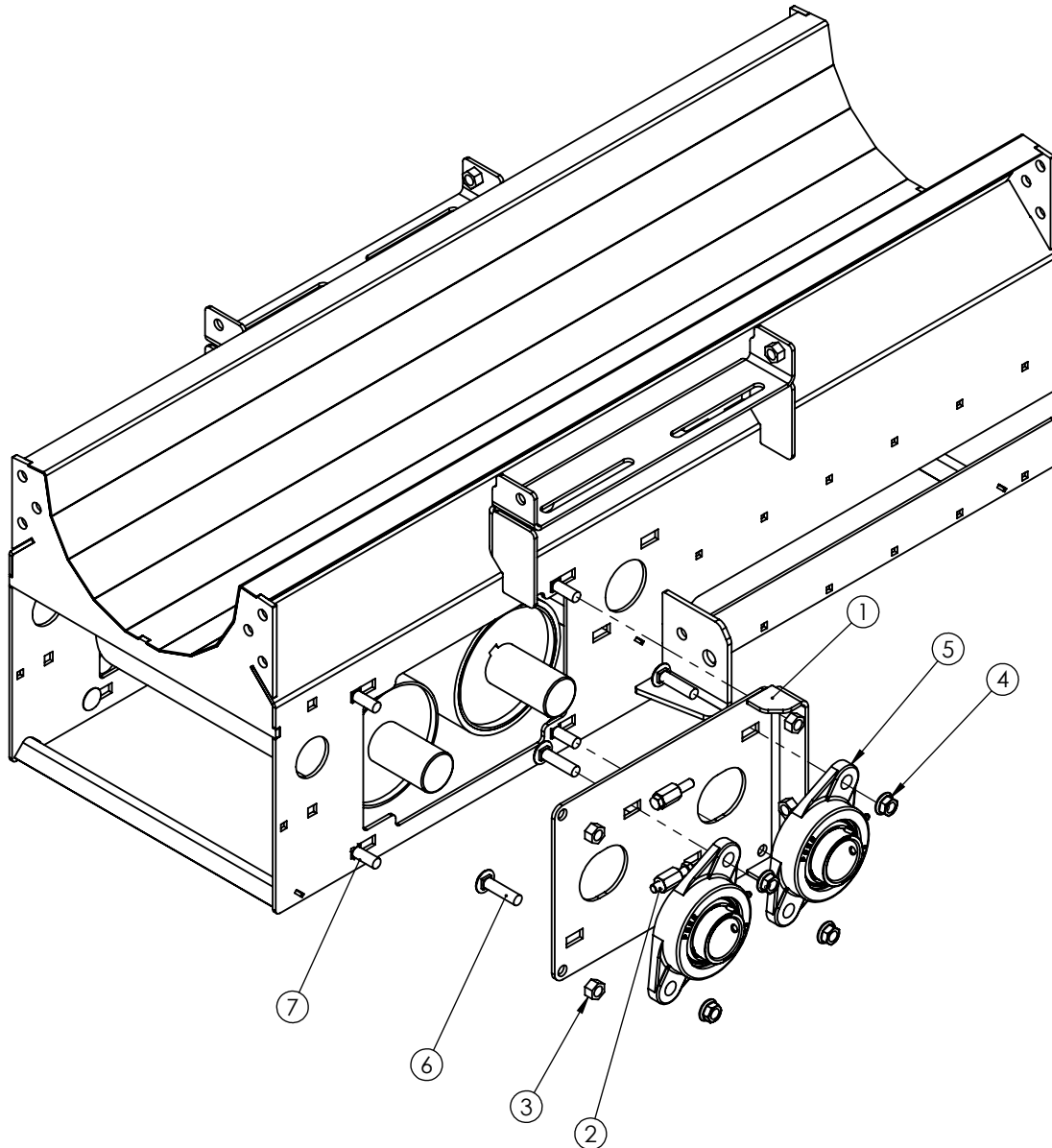


ASSEMBLY:

1. PLACE KEY IN SLOTS AND SLIDE ITEM (5) INTO ITEM (4) AND ITEM (3) INTO ITEM (2) .
2. INSTALL ITEMS INTO THE CENTER DRIVE FRAME.

BEARINGS

ITEM	PART NUMBER	DESCRIPTION	QTY
1	74023	SLIDE,BRG,WLD,CENTERDRIVE,CS	1
2	30719	BOLT,HH-TAP,0.375-16X2.00,ZP	2
3	30155	NUT,HEX,0.500,ZP	4
4	57655	NUT,HEXFLANGE,0.500-13,ZP	4
5	72708	BRG,1.938,2BFL,SET-SCREW,PEER	2
6	58061	BOLT,CB,0.50-13X2.00,SHRTNK,ZP	4
7	46700	BOLT,CB,0.50-13X1.50,ZP	4



ASSEMBLY:

1. THREAD (2) INTO NUT ON (1) .
2. ATTACH ITEM (5) TO (1) , USING ITEMS (4) AND (6) , SLIDE BEARING ALL THE WAY BACK AGAINST THE PUSHER BOLT AND TIGHTEN BOLTS .
3. SLIDE ITEM (1) ONTO SHAFTS, ATTACH TO FRAME USING ITEMS (7) AND (3) , **DO NOT TIGHTEN ALL THE WAY.**

BEARINGS

ITEM	PART NUMBER	DESCRIPTION	QTY
1	73712	SLIDE,BRGWLD,CENTERDRIVE,CS	1
2	30719	BOLT,HH-TAP,0.375-16X2.00,ZP	2
3	72708	BRG,1.938,2BFL,SET-SCREW,PEER	2
4	58061	BOLT,CB,0.50-13X2.00,SHRTNK,ZP	4
5	46700	BOLT,CB,0.50-13X1.50,ZP	4
6	57655	NUT,HEXFLANGE,0.500-13,ZP	4
7	30155	NUT,HEX,0.500,ZP	4

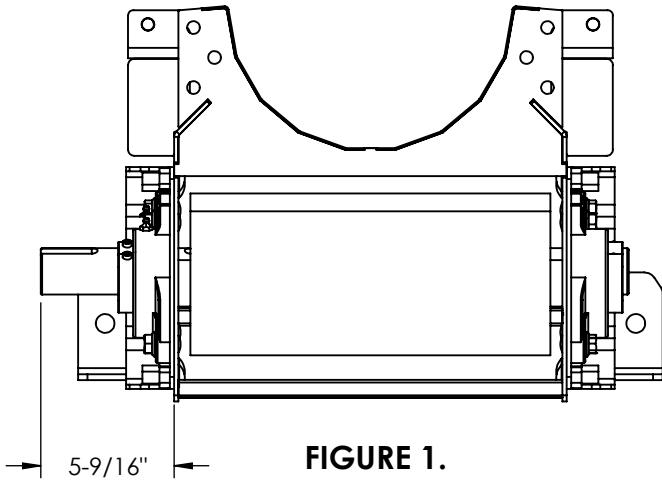
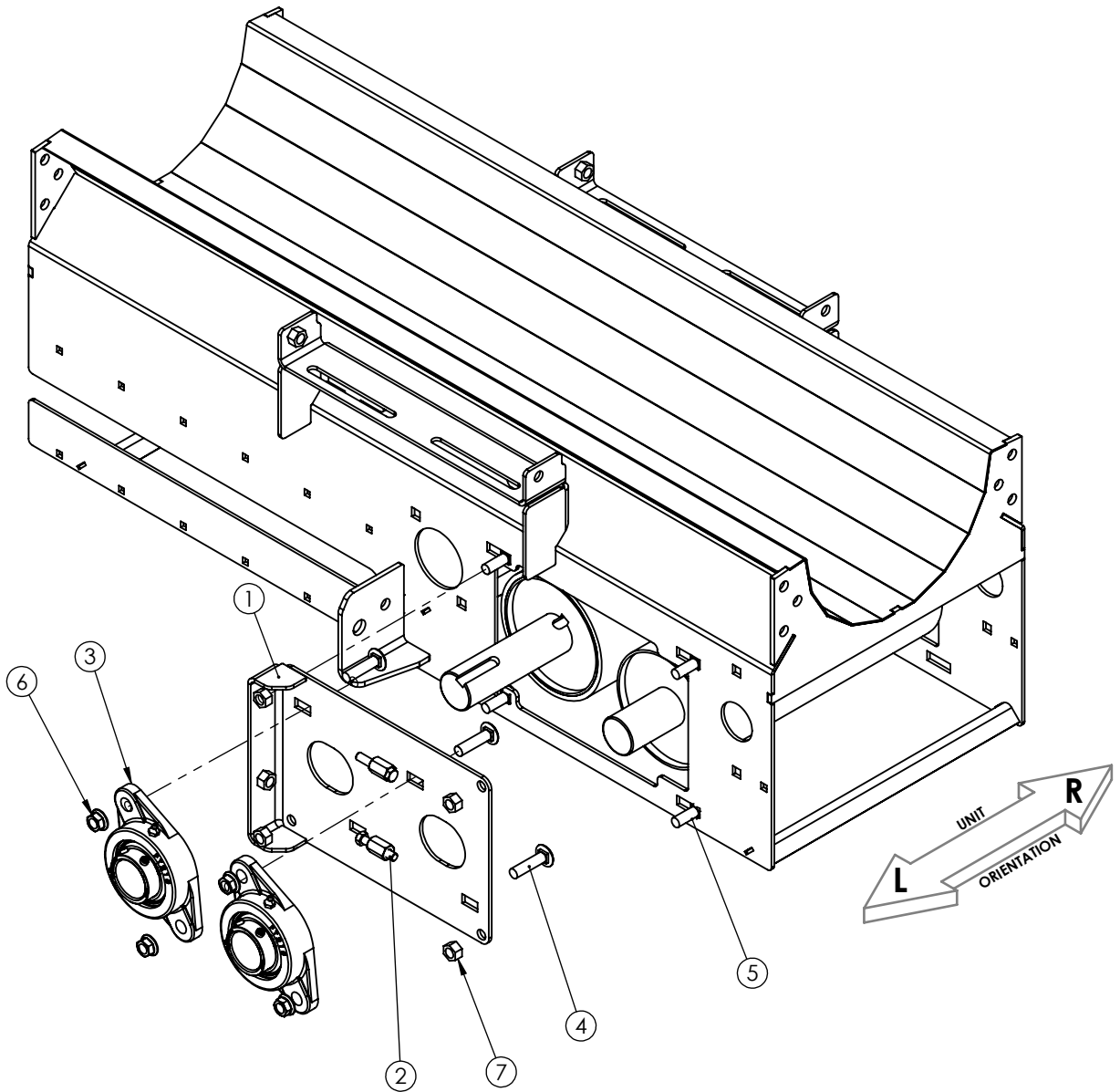


FIGURE 1.



ASSEMBLY:

1. THREAD (2) INTO NUT ON (1).
2. ATTACH ITEM (3) TO (1), USING ITEMS (4) AND (6), SLIDE BEARING ALL THE WAY BACK AGAINST THE PUSHER BOLT AND TIGHTEN.
3. SLIDE ITEM (1) ONTO SHAFTS, ATTACH TO FRAME USING ITEMS (5) AND (6). **DO NOT TIGHTEN ALL THE WAY.**
4. MOVE SHAFT TO DISTANCE SHOWN IN FIGURE 1, TIGHTEN BEARING SET SCREWS.

JACK SHAFT

ITEM	PART NUMBER	DESCRIPTION	QTY
1	58061	BOLT,CB,0.50-13X2.00,SHRTNK,ZP	4
2	74026	SHAFT,CENTERDRIVE,1.5X27.5,CS	1
3	72706	BRG,1.500,2BFL,SET-SCREW,PEER UCFT208-24-AP,G-SEAL	2
4	57655	NUT,HEXFLANGE,0.500-13,ZP	4

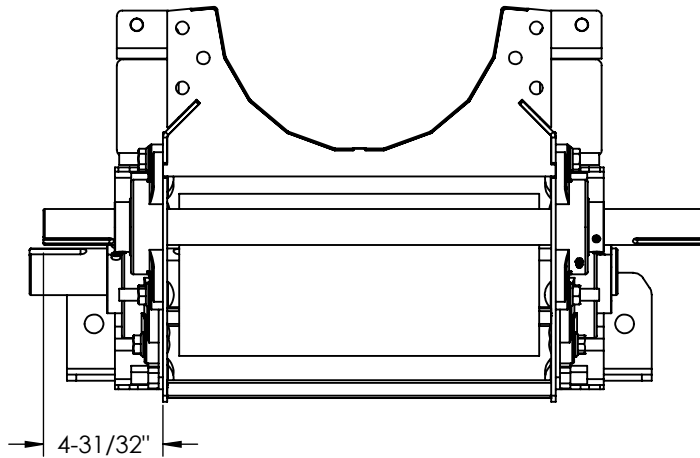
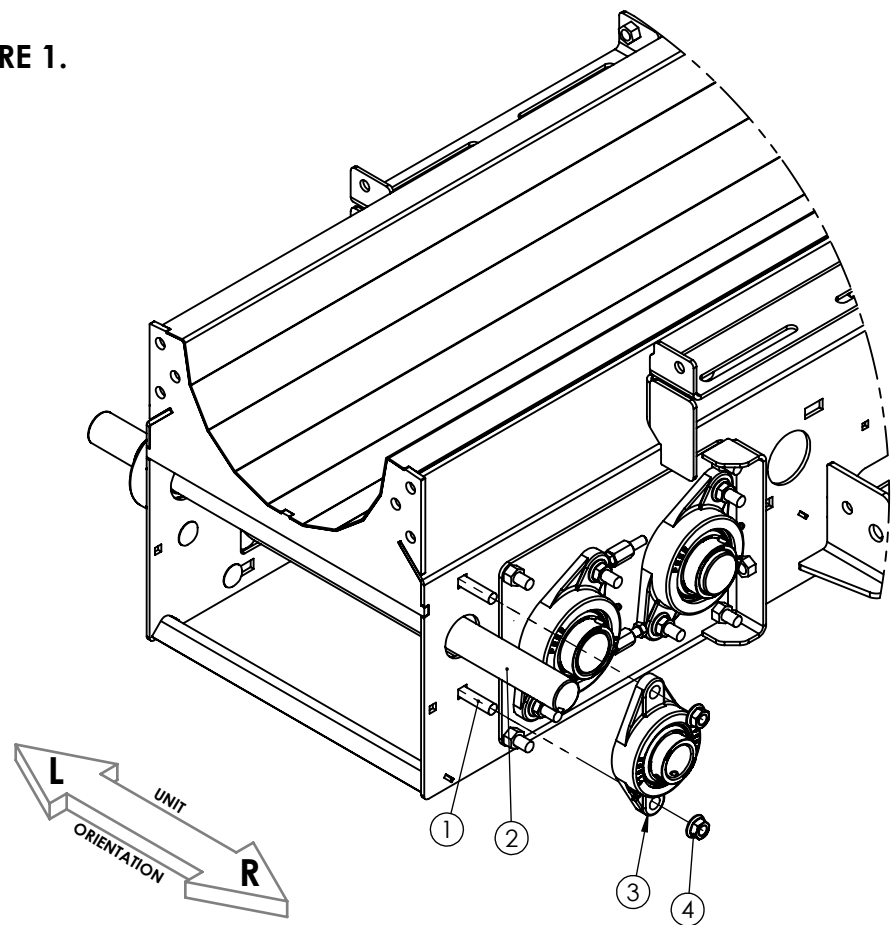


FIGURE 1.

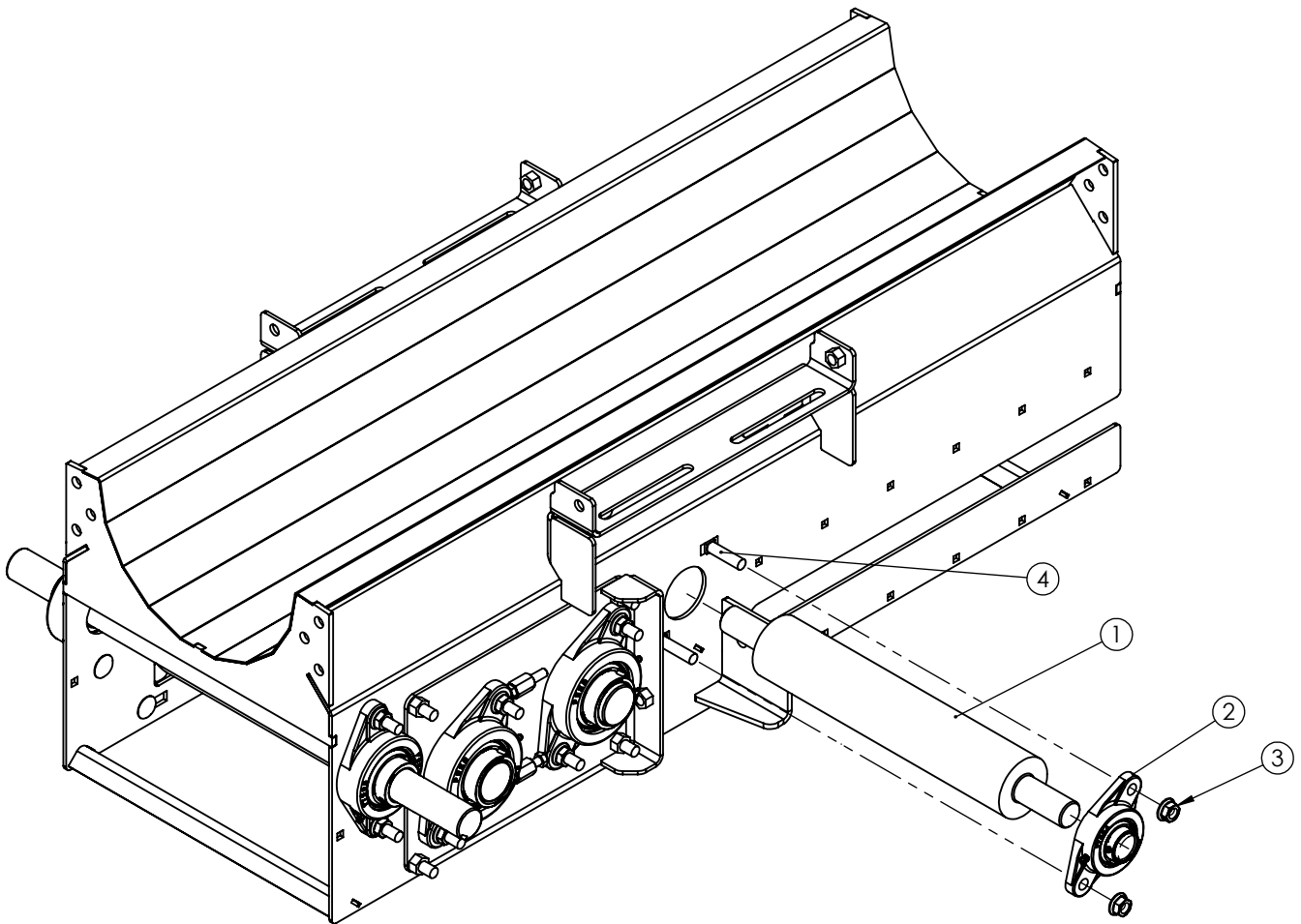


ASSEMBLY:

1. SLIDE SHAFT THROUGH THE FRAME.
2. SLIDE ITEM (3) ONTO THE SHAFT, ATTACH TO FRAME USING (1) AND (4) .
3. REPEAT STEP 2 FOR THE OTHER SIDE.
4. MOVE SHAFT TO DISTANCE SHOWN IN FIGURE 1, TIGHTEN THE BEARING SET SCREWS.

ROLLING PIN

ITEM	PART NUMBER	DESCRIPTION	QTY
1	74030	PULLEY, SNUB, S-DRIVE	1
2	72703	BRG, 1.250, 2BFL, SET-SCREW, PEER UCFT206-20-AP, G-SEAL	2
3	57655	NUT, HEXFLANGE, 0.500-13, ZP	4
4	58061	BOLT, CB, 0.50-13X2.00, SHRTNK, ZP	4

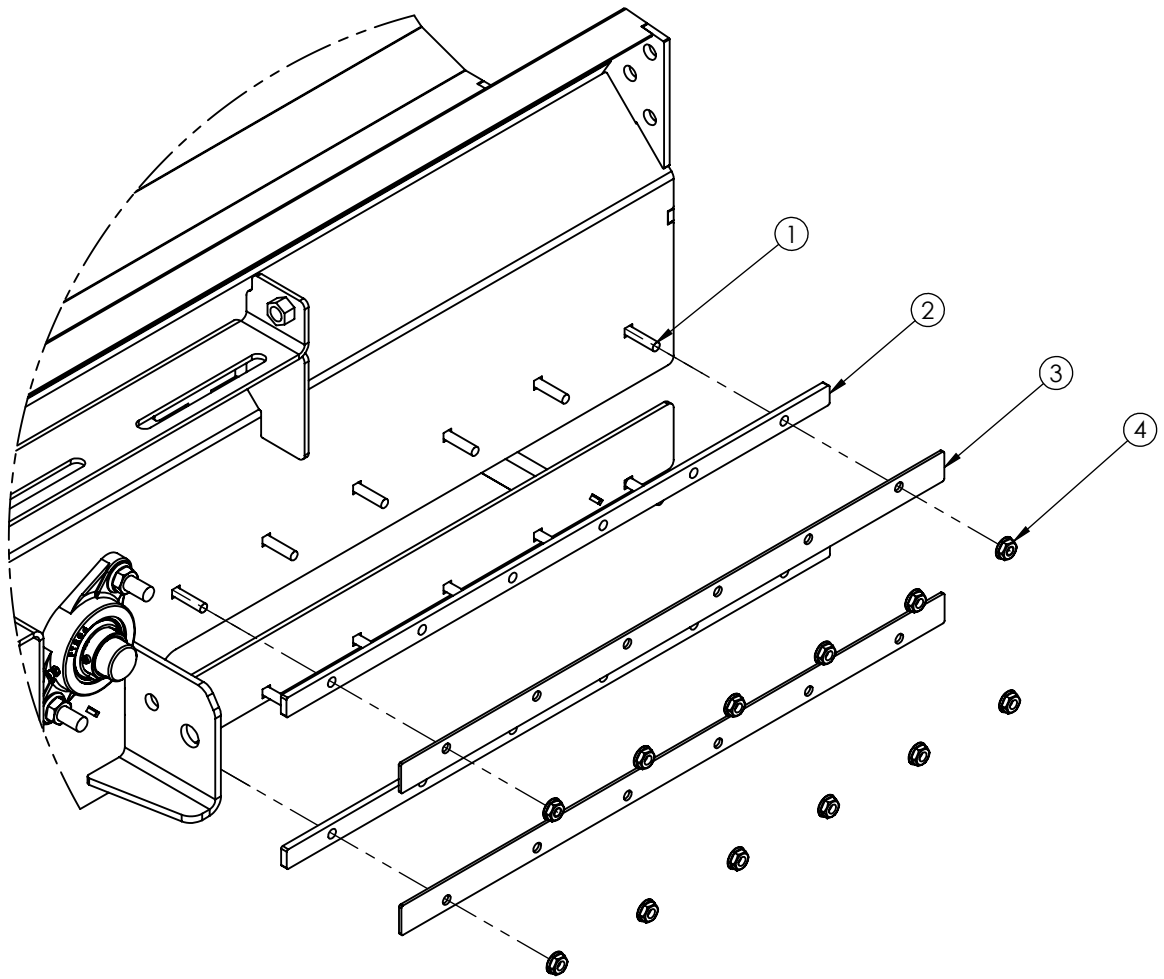


ASSEMBLY:

1. SLIDE ① THROUGH THE FRAME.
2. SLIDE ITEM ② ONTO ①, ATTACH TO FRAME USING ④ AND ③, CENTER BOLT IN SLOT AND TIGHTEN.
3. REPEAT STEP 2 FOR THE OTHER SIDE.
4. CENTER ① IN CENTER DRIVE, TIGHTEN THE BEARING SET SCREWS.

TAKE-UP RAIL

ITEM	PART NUMBER	DESCRIPTION	QTY
1	30430	BOLT,CB,0.3125X1.50	24
2	74018	PANEL,REC,0.25,24.00X0.75,CS	4
3	74017	PANEL,REC,12GA,1.13X24.00,CS	4
4	30152	NUT,HEXFLANGE,0.312-18,ZP	24

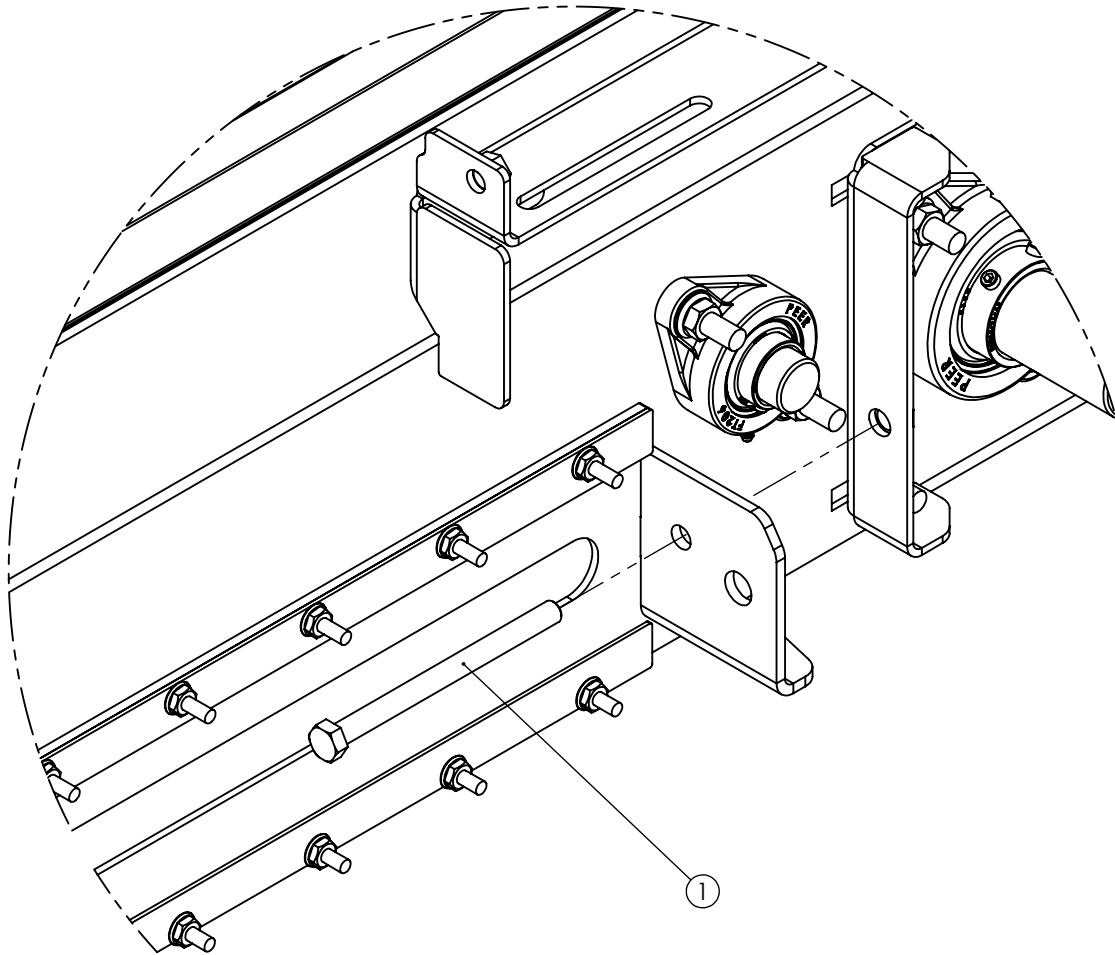


ASSEMBLY:

1. BOLT (2) AND (3) ON TO THE CENTER DRIVE FRAME USING (1) AND (4) .

JACK BOLT

ITEM	PART NUMBER	DESCRIPTION	QTY
1	73333	SCREW,HHCS, 0.500-13 X 6.00, ZP, GR. 5	2

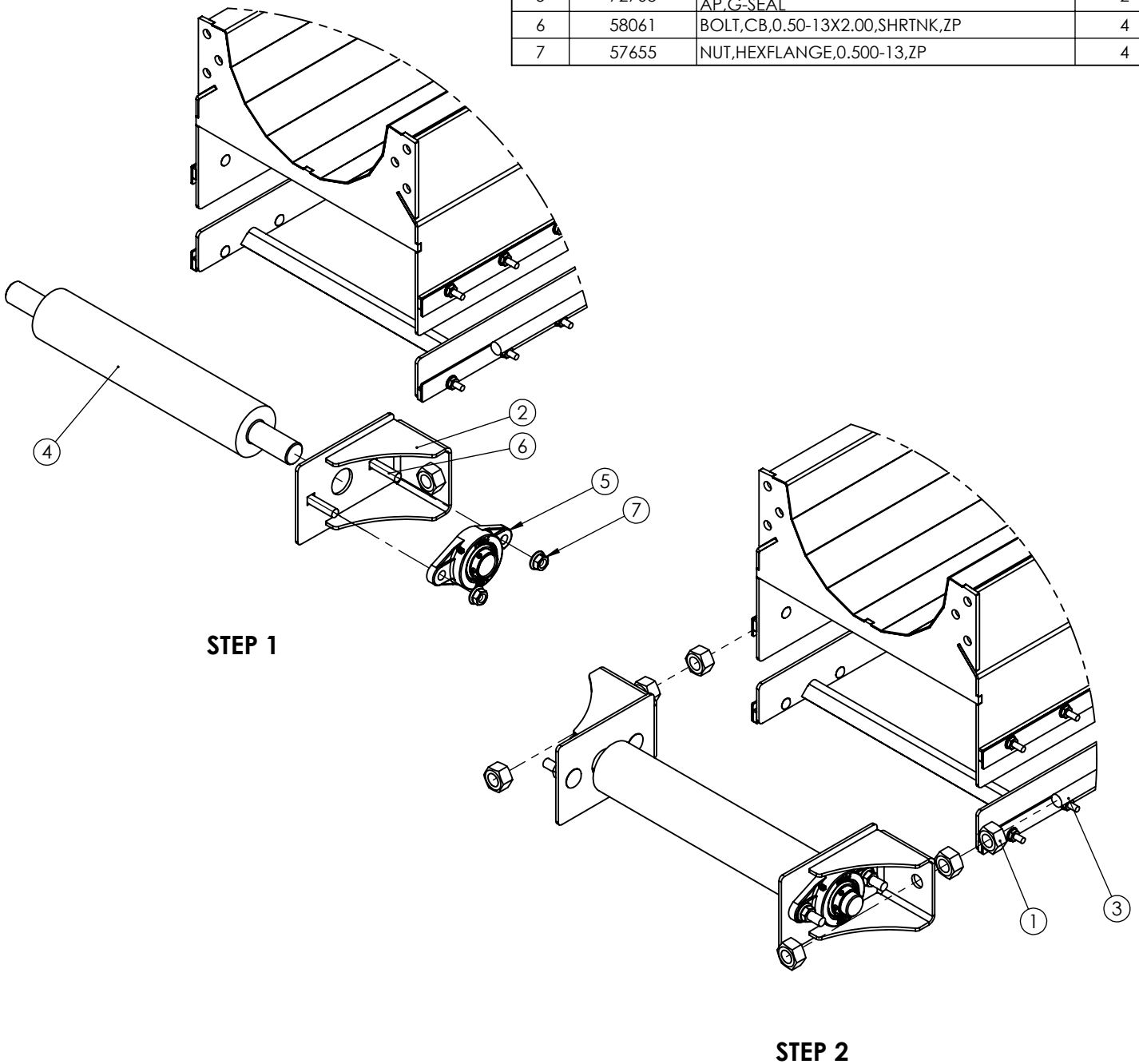


ASSEMBLY:

1. SLIDE BOLT ITEM ① THROUGH THE HOLE AND THREAD INTO NUT AS DEPICTED ABOVE.
2. REPEAT FOR THE OTHER SIDE OF THE CENTER DRIVE.

TAKE-UP

ITEM	PART NUMBER	DESCRIPTION	QTY
1	43886	NUT,HH,ACME,0.750-6,ZP	6
2	74020	TAKE-UP,SLIDE,CENTER-DRIVE	2
3	73713	BOLT,TAKEUP,0.75-6ACMEX22.0	2
4	74030	PULLEY,SNUB,S-DRIVE	1
5	72703	BRG,1.250,2BFL,SET-SCREW,PEER UCFT206-20-AP,G-SEAL	2
6	58061	BOLT,CB,0.50-13X2.00,SHRTNK,ZP	4
7	57655	NUT,HEXFLANGE,0.500-13,ZP	4



STEP 1

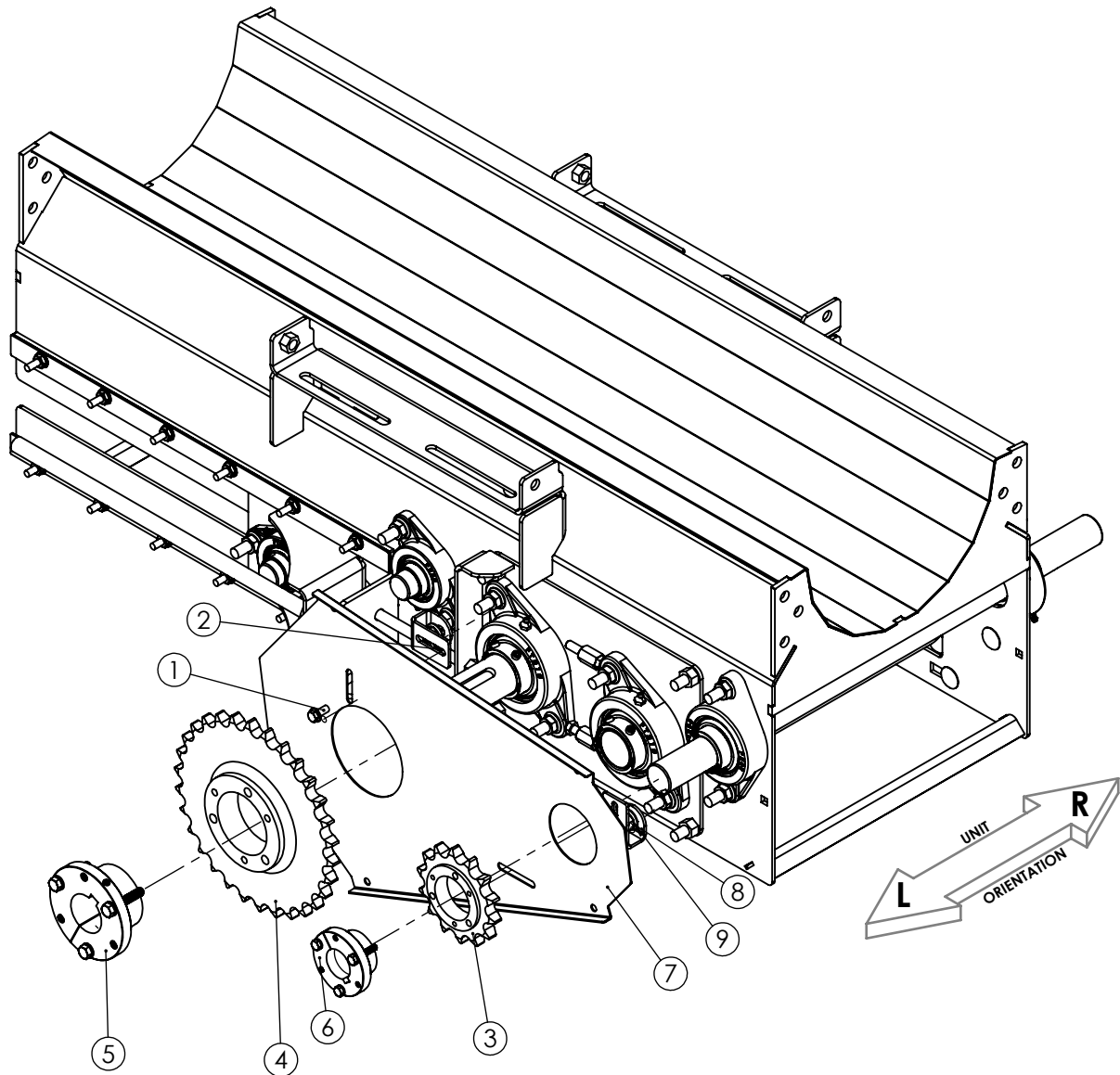
STEP 2

ASSEMBLY:

1. SLIDE ITEMS (2) AND (5) ONTO (4) , MOUNT BEARING USING ITEMS (6) AND (7) .
2. REPEAT STEP 1 FOR OTHER SIDE.
3. THREAD 2 NUTS ITEM (1) ONTO THREADED ROD ITEM (3) .
4. SLIDE (2) INTO TRACK/RAIL ON FRAME AS SHOWN IN STEP TWO AND THREAD ITEM (1) TO HOLD IN PLACE.
5. CENTER (4) IN BETWEEN FRAME AND TIGHTEN THE SET BEARING SCREWS.

SPROCKETS

ITEM	PART NUMBER	DESCRIPTION	QTY
1	30407	SCREW, HFHCS, 0.312-18X0.75, ZP	2
2	30152	NUT, HEXFLANGE, 0.312-18, ZP	2
3	31664	SPROCKET, QD, 80SDS14	1
4	31681	SPROCKET, QD, 80SF30	1
5	30768	BUSHING, QD, SF, 1.9375	1
6	30831	BUSHING, QD, SDS, 1.50	1
7	74038	GUARD, CNTR-DRIVE, BACK, HBC, CS	1
8	75220	BRACKET, CNTR-DRIVE, GUARD, CS	2
9	57655	NUT, HEXFLANGE, 0.500-13, ZP	2

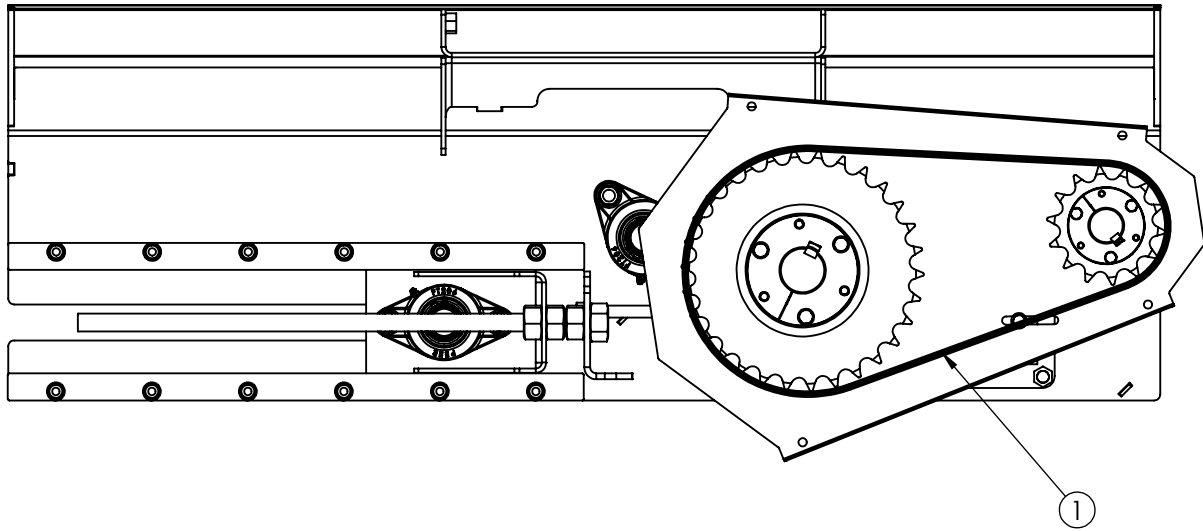


ASSEMBLY:

1. MOUNT ITEM (7) USING ITEM (8) AND HARDWARE (2), (1), AND (9).
2. ASSEMBLE SPROCKETS (4) AND (3) USING BUSHINGS (5) AND (6).

CHAIN

ITEM	PART NUMBER	DESCRIPTION	QTY
1	35229	CHAIN, #80-RIVETED, 10'	49"

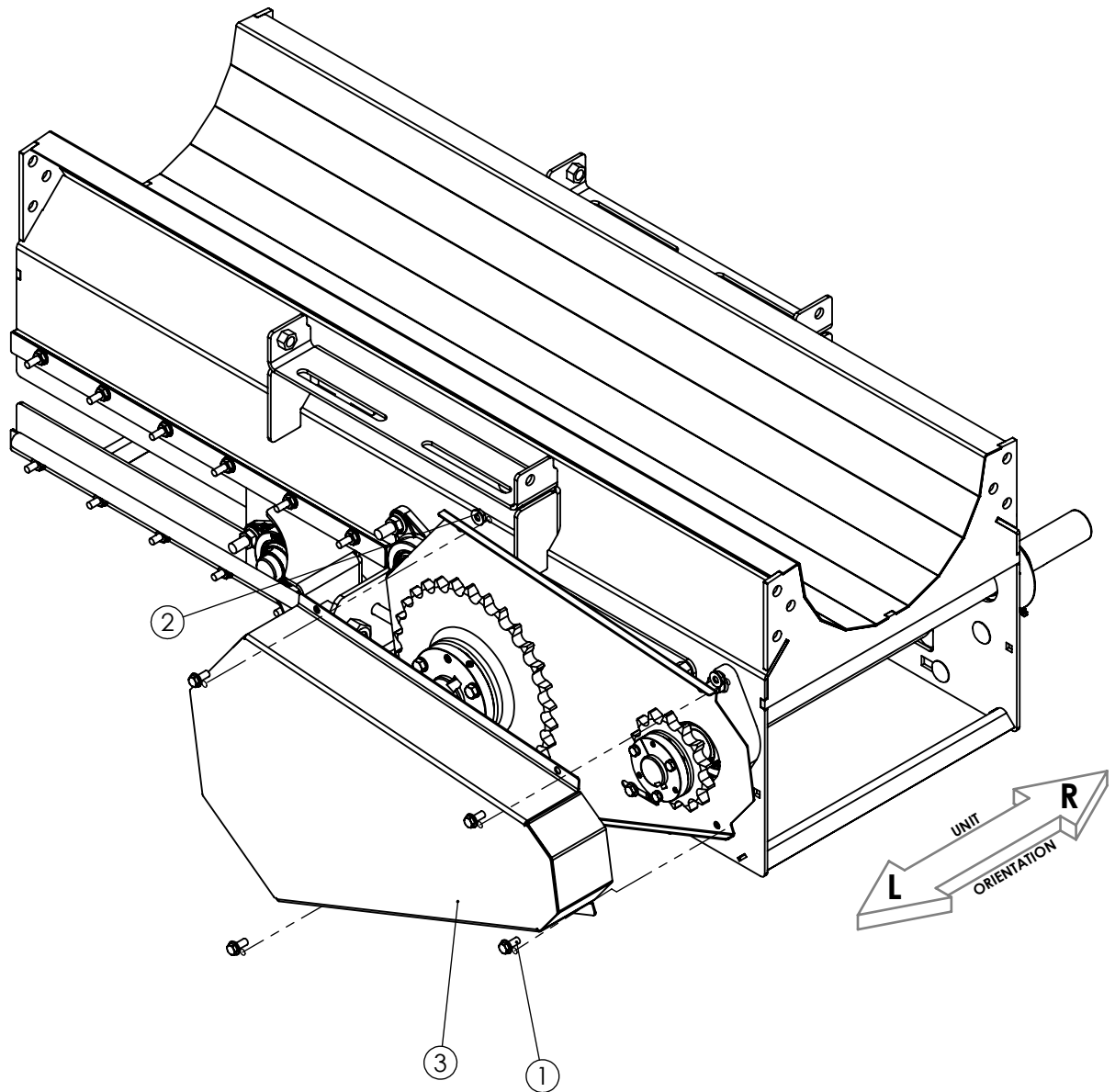


ASSEMBLY:

1. ASSMBLE CHAIN ITEM ① ONTO SPROCKETS.
2. TIGHTEN CHAIN USING BEARING SLIDER PLATE.
3. TIGHTEN BOLTS ON SLIDER PLATE.

CHAIN GUARD

ITEM	PART NUMBER	DESCRIPTION	QTY
1	30407	SCREW, HFHCS, 0.312-18X0.75, ZP	4
2	30152	NUT, HEXFLANGE, 0.312-18, ZP	4
3	74037	GUARD, WLD, CNTR-DRIVE, HBC, CS	1



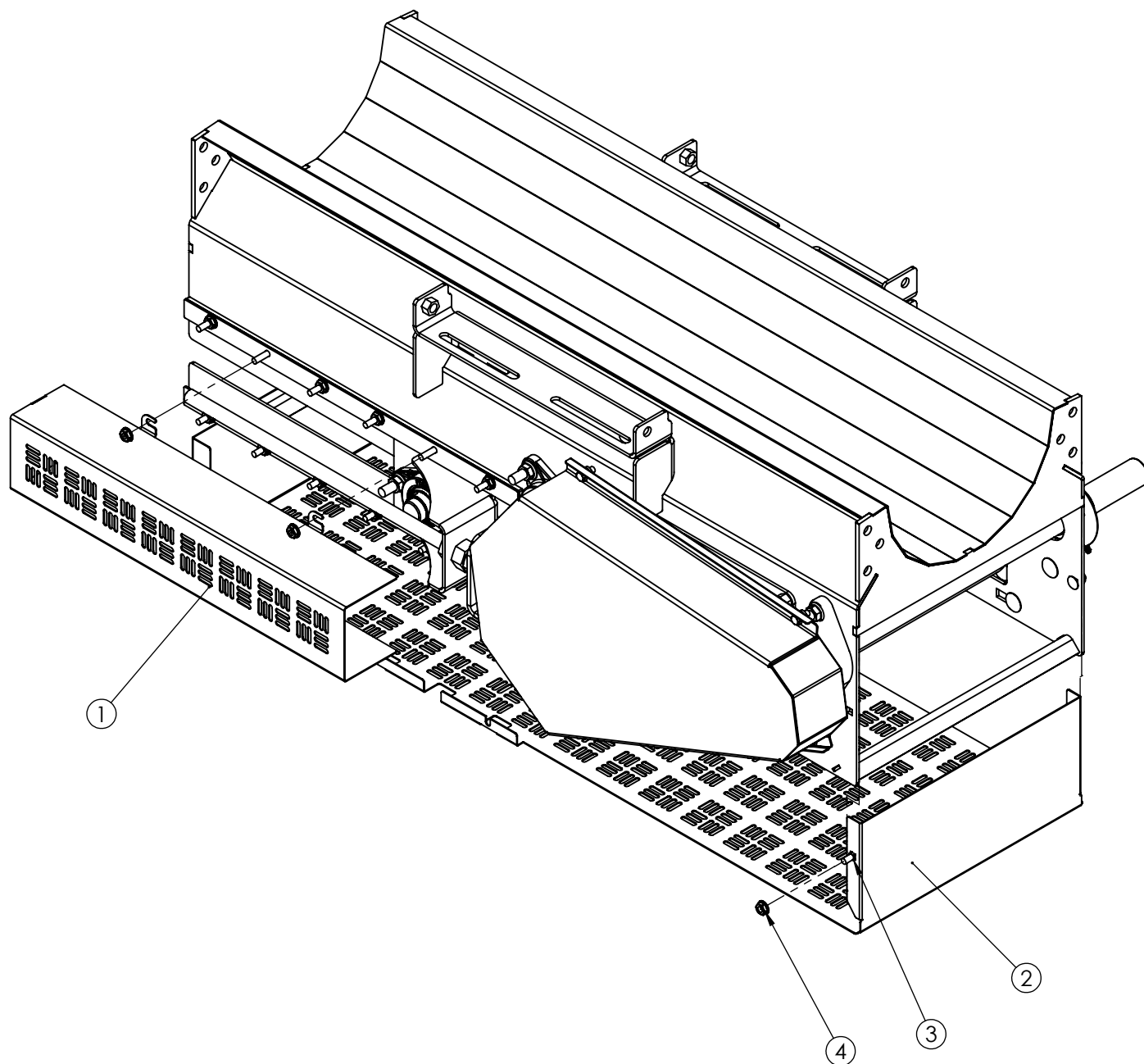
ASSEMBLY:

1. ASSEMBLE CHAIN GUARD (3) USING HARDWARE (1) AND (2) .

REV :

GUARDS

ITEM	PART NUMBER	DESCRIPTION	QTY
1	75222	GUARD,WLD,TAKE-UP COVER,CS,HBC CENTER DRIVE	2
2	75223	GUARD,CNTR-DRIVE,BOTTOM,CS	1
3	30429	BOLT,CB,0.3125-18X0.75,ZP	2
4	30152	NUT,HEXFLANGE,0.312-18,ZP	2



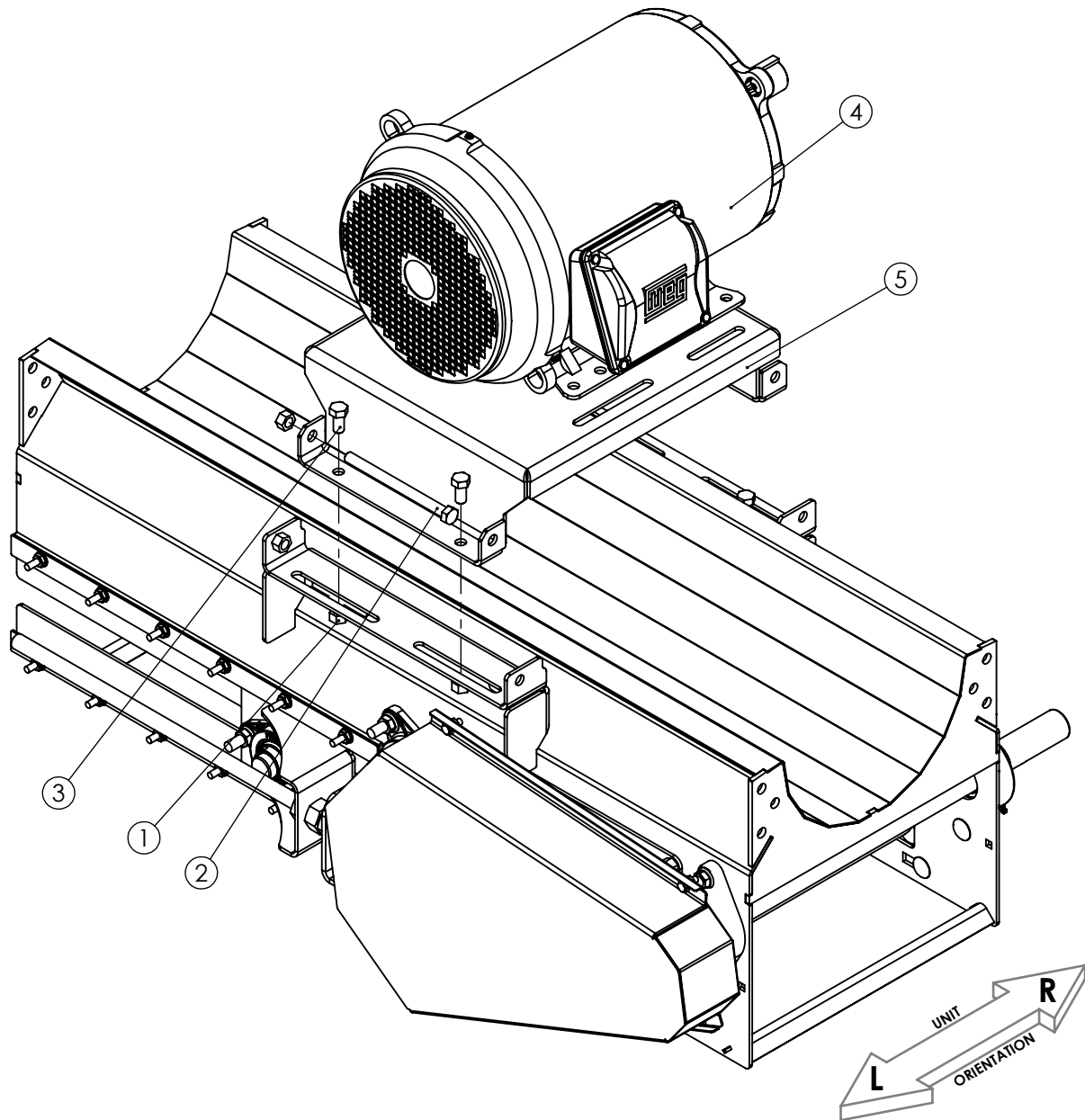
ASSEMBLY:

1. ASSEMBLE GUARD ①, THEN ASSEMBLE GUARD ② AS DEPICTED ABOVE BY LOOSENING NUTS.

REV :

MOTOR PAN

ITEM	PART NUMBER	DESCRIPTION	QTY
1	30155	NUT,HEX,0.500,ZP	6
2	73333	SCREW,HHCS, 0.500-13 X 6.00, ZP, GR. 5	2
3	30606	SCREW,HHCS,0.500-13X1.00,ZP	4
4	VARRIES	MOTOR	1
5	74028	MOUNT,MOTOR,HBC,CS	1



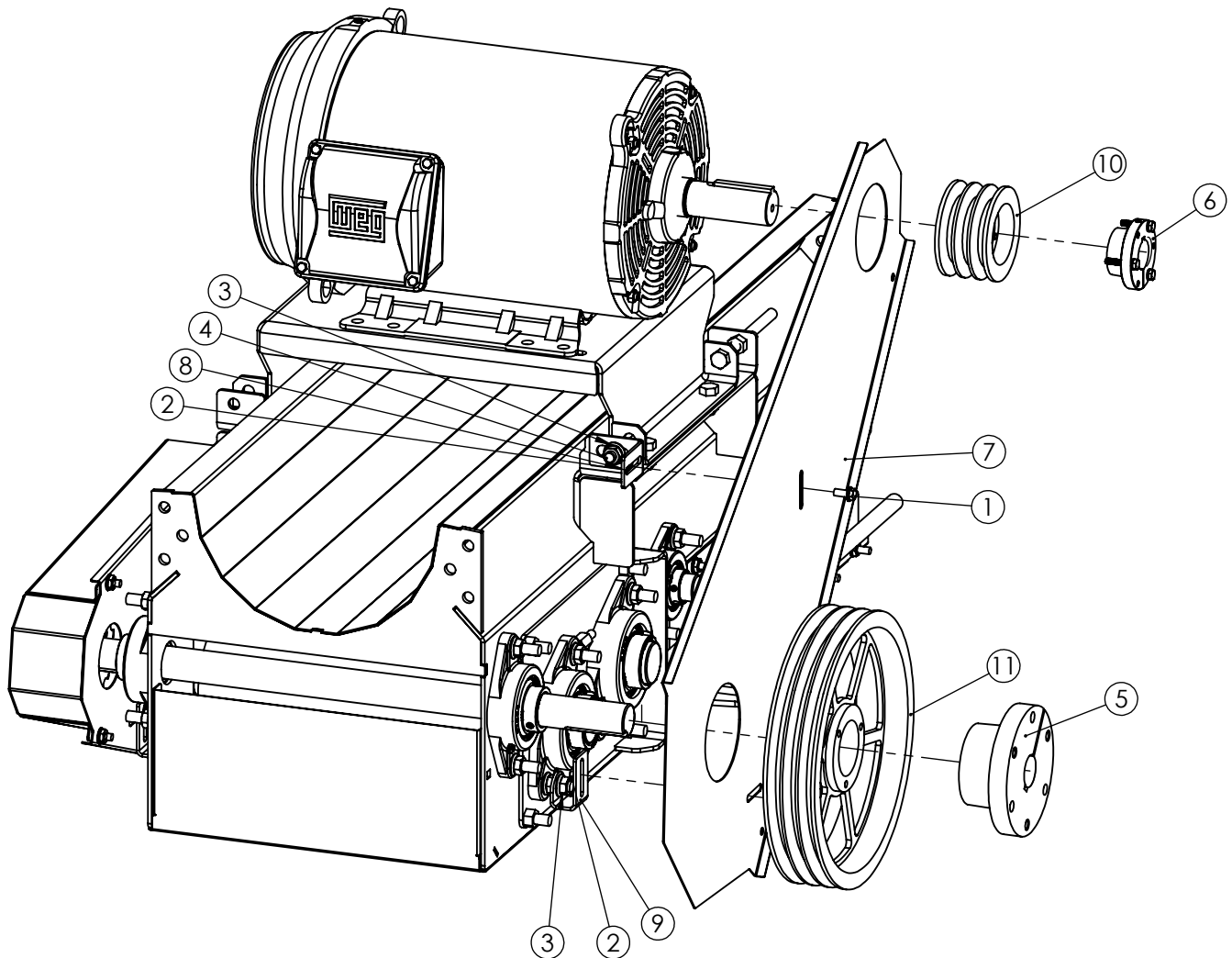
ASSEMBLY:

1. ASSEMBLE (5) USING (3) AND (1) LEAVE NUT LOOSE SO THAT MOTOR PAN SLIDES FREELY
2. INSTALL (2) AS DEPICTED ABOVE.
3. INSTALL MOTOR IF UNIT HAS ONE, ELSE PACKAGE THE COMPONENTS ON PROCEEDING PAGES FOR SHIPPING.

V-BELT/SHEAVE

**-IF MOTOR IS BEING ASSEMBLED ONSITE,
GATHER THE FOLLOWING COMPONENTS
TO BE SHIPPED WITH THE UNIT.**

ITEM	PART NUMBER	DESCRIPTION	QTY
1	30407	SCREW, HFCS, 0.312-18X0.75, ZP	2
2	30152	NUT, HEXFLANGE, 0.312-18, ZP	2
3	57655	NUT, HEXFLANGE, 0.500-13, ZP	2
4	30606	SCREW, HHCS, 0.500-13X1.00, ZP	1
5	56880	BUSHING, QD, E, 1.50	1
6	VARRIES	BUSHING	1
7	75219	GUARD, CNTR-DRIVE, BACK, HBC, CS	1
8	75221	BRACKET, CNTR-DRIVE, GUARD, CS	1
9	75220	BRACKET, CNTR-DRIVE, GUARD, CS	1
10	45522	SHEAVE, 3GR, 5V4.40, QD, SDS	1
11	52909	SHEAVE, 3GR, 5V12.5, QD, E	1



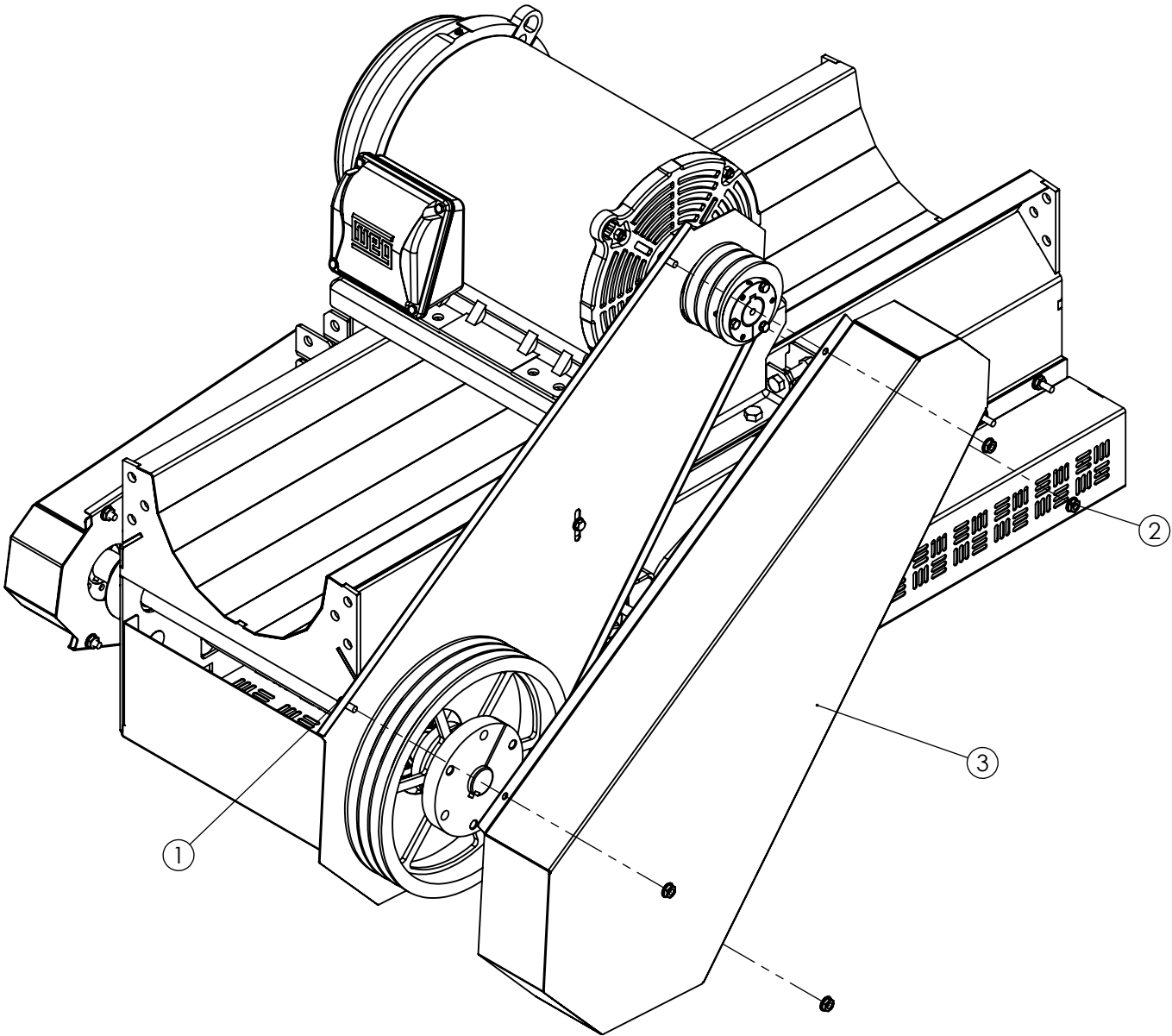
ASSEMBLY:

1. BOLT ITEM (7) USING HARDWARE AND BRACKETS LISTED ABOVE.
2. ATTACH (11) USING BUSHING (5), MAKE BUSHING FLUSH WITH END OF SHAFT.
3. ATTACH (10) USING BUSHING (6), MAKE BUSHING FLUSH WITH END OF MOTOR SHAFT.
4. MOVE MOTOR BACK IF NEEDED TO GET SHEAVES ALIGNED.
5. USE (x3) 49738 V-BELTS, SLIDE MOTOR PAN BACK UNTIL V-BELTS ARE TIGHT ON SHEAVES

V-BELT GUARD

-IF MOTOR IS BEING ASSEMBLED ONSITE,
GATHER THE FOLLOWING COMPONENTS
TO BE SHIPPED WITH THE UNIT.

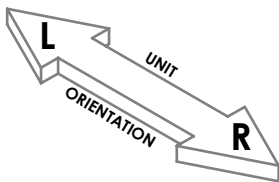
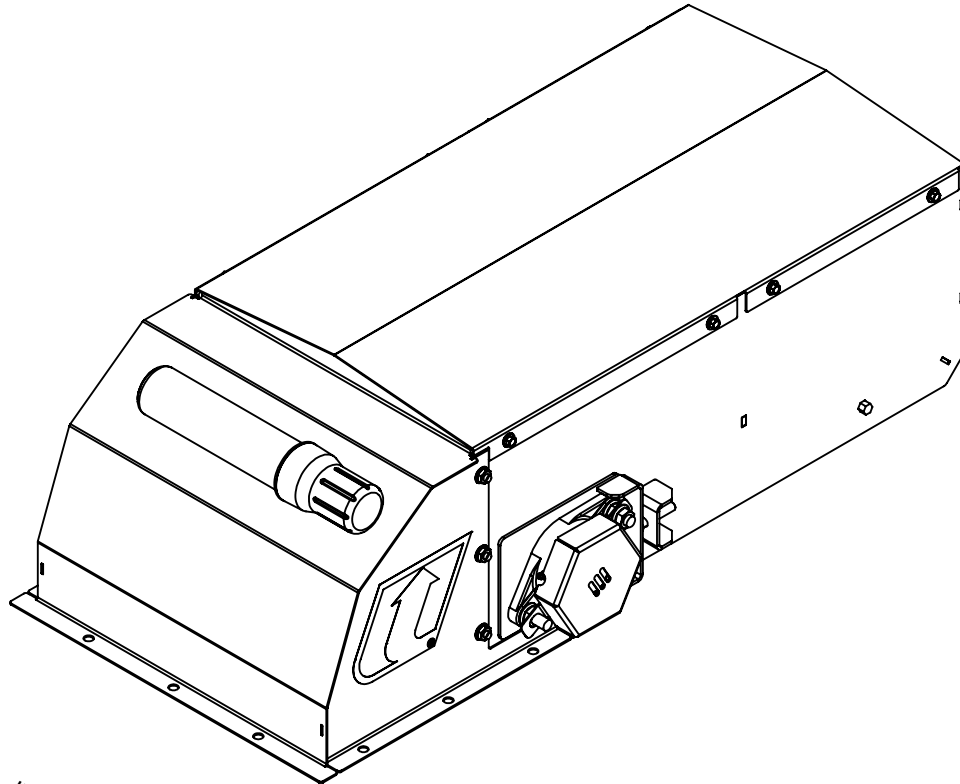
ITEM	PART NUMBER	DESCRIPTION	QTY
1	30407	SCREW,HFHCS,0.312-18X0.75,ZP	4
2	30152	NUT,HEXFLANGE,0.312-18,ZP	4
3	75218	GUARD,WLD,CNTR-DRIVE,HBC,CS	1



ASSEMBLY:

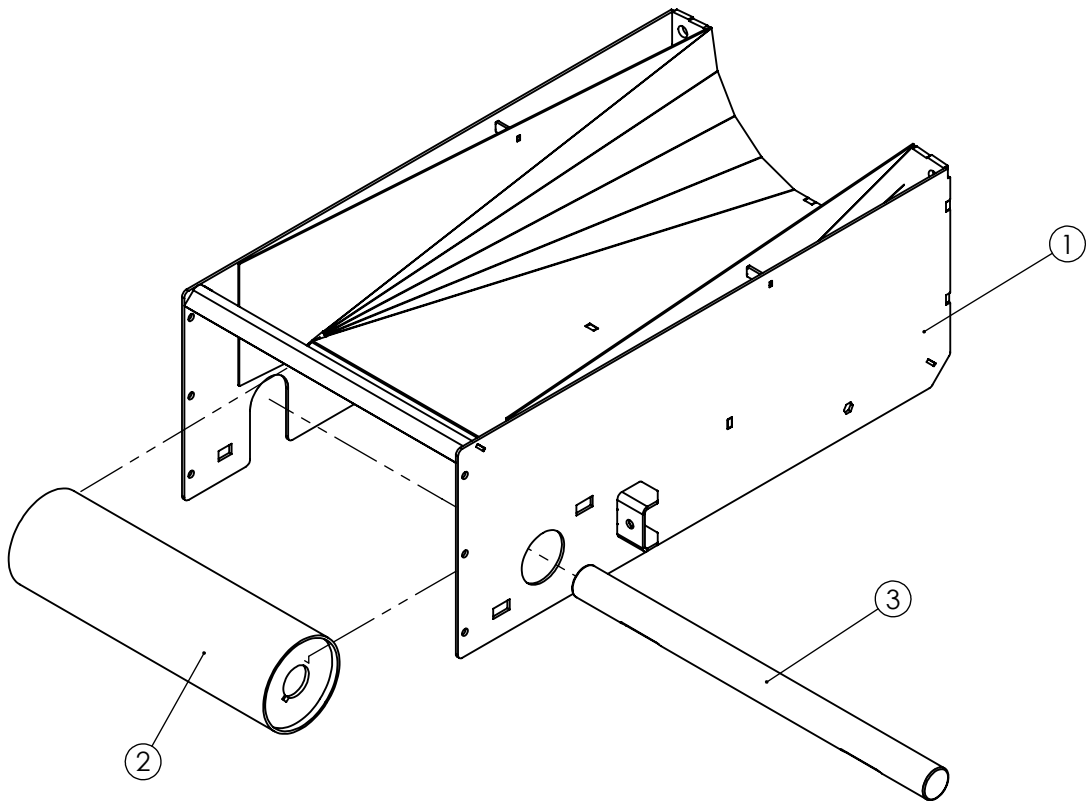
- 1. BOLT COVER (3) ONTO BACK PLATE USING (1) AND (2) .

HBC CENTER-DRIVE HEAD ASSEMBLY AND PARTS (STANDARD WHEN CENTER DRIVE IS ORDERED)



PULLEYS AND SHAFTS

ITEM	PART NUMBER	DESCRIPTION	QTY
1	74035	FRAME,CENTER-DRIVE,HEAD,CS	1
2	75226	PULLEY,CF,DRUM,4.50X15.00,1.50	1
3	74036	SHAFT,HEAD,1.5X20.75,CS	1

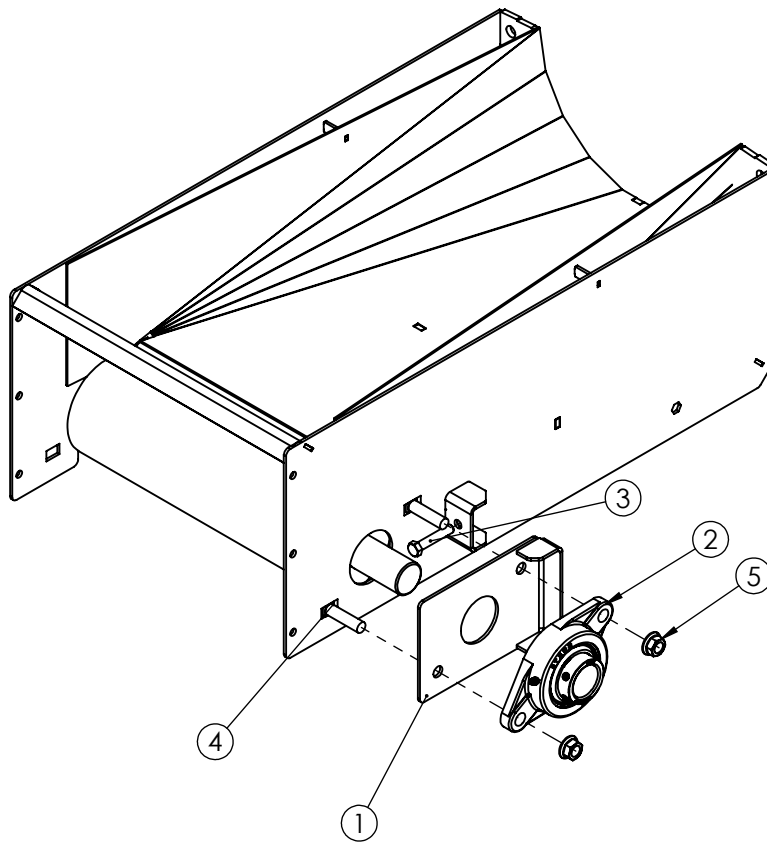


ASSEMBLY:

1. PLACE ITEM (2) IN BETWEEN SIDE WALLS OF HEAD.
2. SLIDE ITEM (3) INTO ITEM (2).

CENTER-DRIVE HEAD BEARINGS

ITEM	PART NUMBER	DESCRIPTION	QTY
1	74033	SLIDE,BRG,CENTER-DRIVE,CS	1
2	72706	BRG,1.500,2BFL,SET-SCREW,PEER UCFT208-24-AP,G-SEAL	1
3	30719	BOLT,HH-TAP,0.375-16X2.00,ZP	1
4	58061	BOLT,CB,0.50-13X2.00,SHRTNK,ZP	2
5	57655	NUT,HEXFLANGE,0.500-13,ZP	2

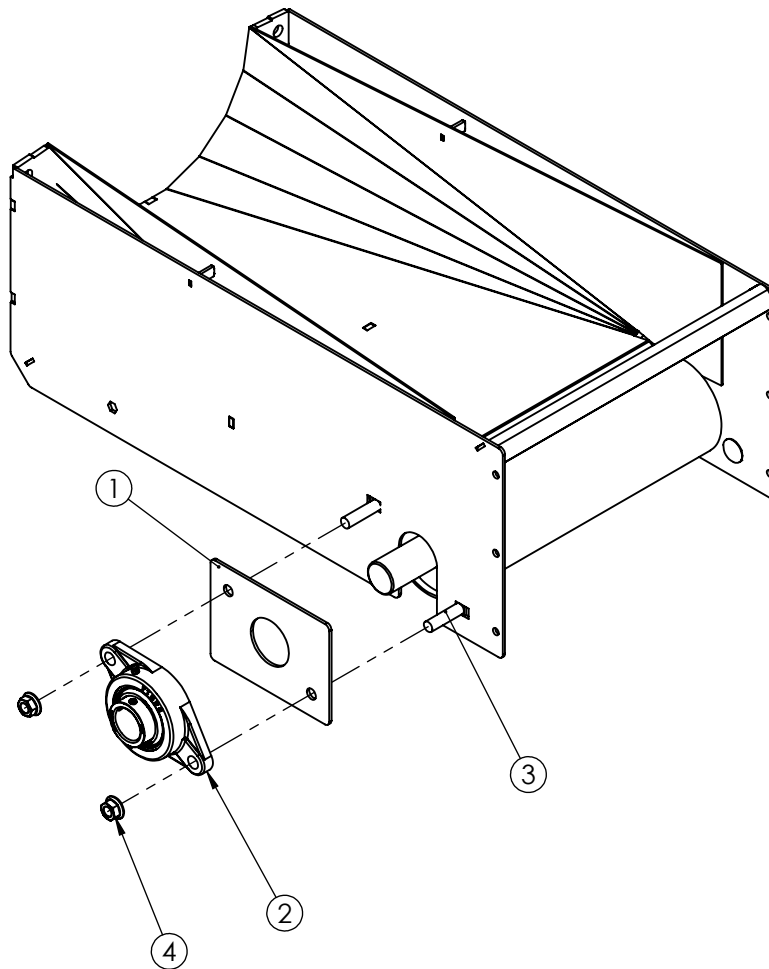


ASSEMBLY:

1. THREAD ③ INTO FRAME OF HEAD.
2. ATTACH ITEM ② TO ① USING ④ AND ⑤, **DO NOT TIGHTEN ALL THE WAY.**
LEAVE LOOSE ENOUGH SO THAT PLATE CAN SLIDE FREELY.

CENTER-DRIVE HEAD BEARINGS

ITEM	PART NUMBER	DESCRIPTION	QTY
1	74034	COVER,SHAFT,CENTER-DRIVE,CS	1
2	72706	BRG,1.500,2BFL,SET-SCREW,PEER UCFT208-24-AP,G-SEAL	1
3	58061	BOLT,CB,0.50-13X2.00,SHRTNK,ZP	2
4	57655	NUT,HEXFLANGE,0.500-13,ZP	2

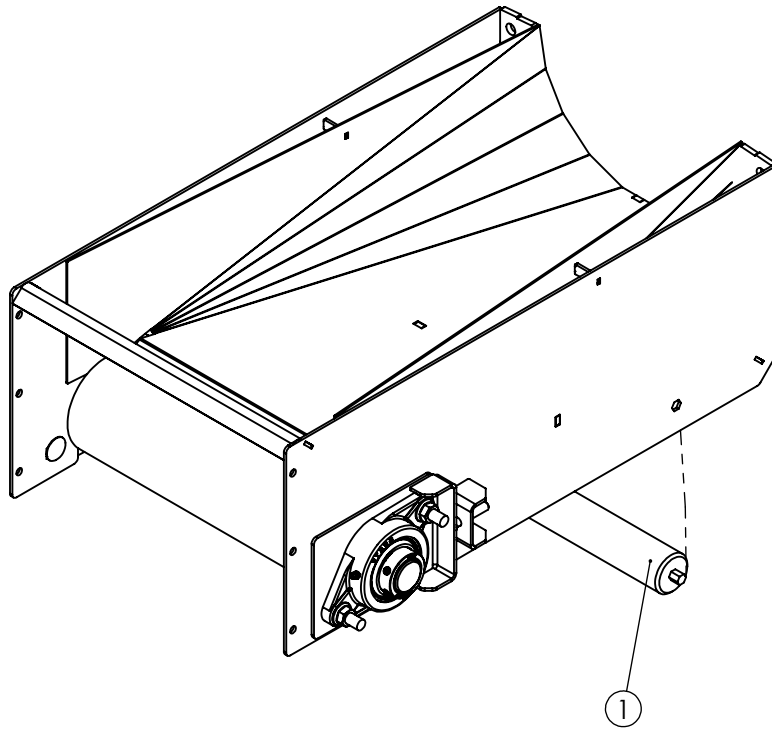


ASSEMBLY:

1. ATTACH ITEM (2) TO (1) USING (3) AND (4), SLIDE PLATE ALL THE WAY TO THE FRONT OF THE HEAD AND TIGHTEN THE BOLTS.
2. CENTER SHAFT IN BETWEEN BEARINGS AND TIGHTEN BEARING SET SCREWS.
3. CENTER PULLEY IN BETWEEN SIDE WALLS OF THE HEAD AND TIGHTEN THE PULLEY SET SCREWS.

CENTER-DRIVE HEAD RETURN ROLLER

ITEM	PART NUMBER	DESCRIPTION	QTY
1	57449	PULLEY,RETURN,1.9,BF16.00,CSS	1



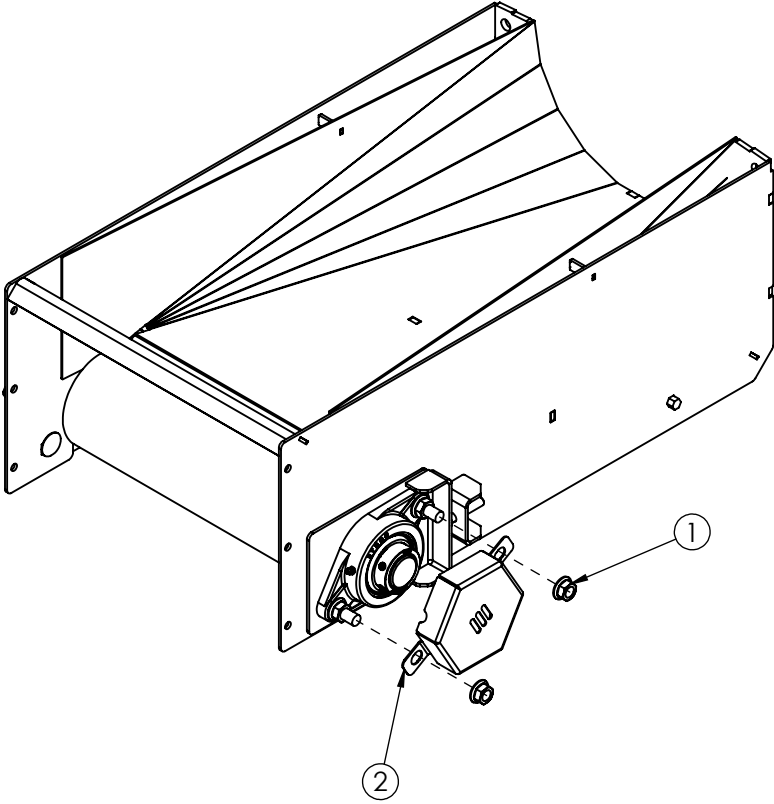
ASSEMBLY:

1. INSTALL RETURN ROLLER ITEM ① .

REV :

CENTER-DRIVE HEAD TOP COVER

ITEM	PART NUMBER	DESCRIPTION	QTY
1	57655	NUT,HEXFLANGE,0.500-13,ZP	4
2	75229	GUARD,BEARING,2BFL,1-1/2,CS	2



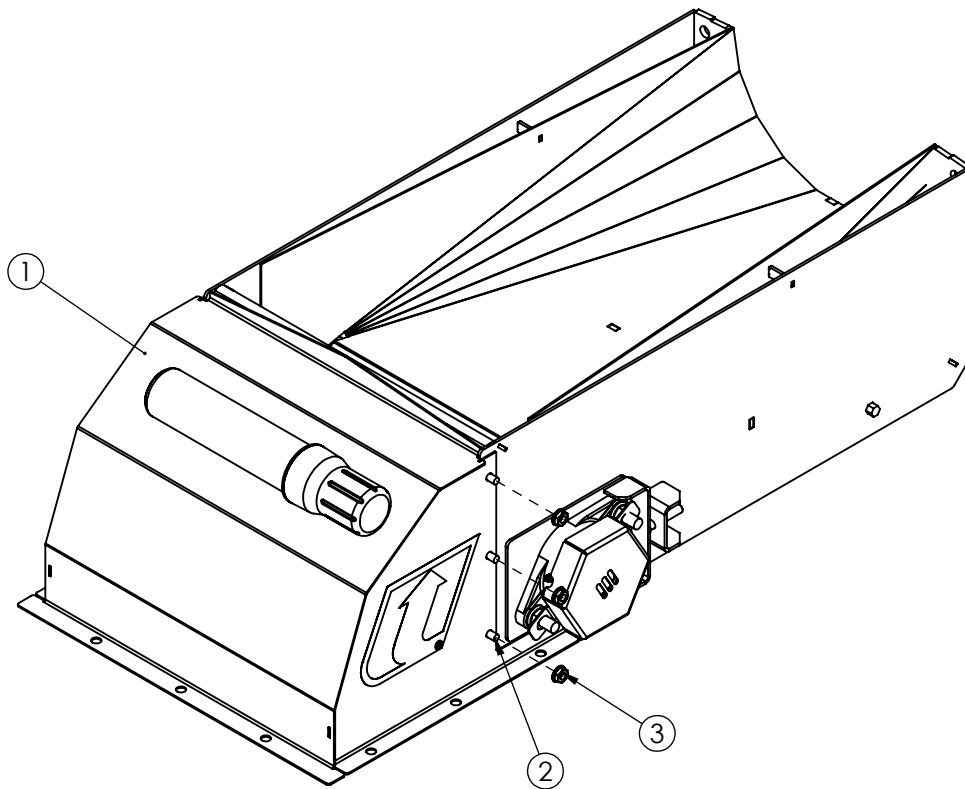
ASSEMBLY:

1. ASSEMBLE GUARDS ON BOTH SIDES USING ① .

CENTER-DRIVE DISCHARGE

-THESE ITEMS SHOULD BE SHIPPED WITH THE CONVEYOR AND BE INSTALLED IN THE FIELD DURING INSTALLATION OF THE UNIT.

ITEM	PART NUMBER	DESCRIPTION	QTY
1	76128	DISCHARGE,HEAD,HBC15,90 DEG,CS	1
2	30407	SCREW,HFHCS,0.312-18X0.75,ZP	6
3	30152	NUT,HEXFLANGE,0.312-18,ZP	6



ASSEMBLY:

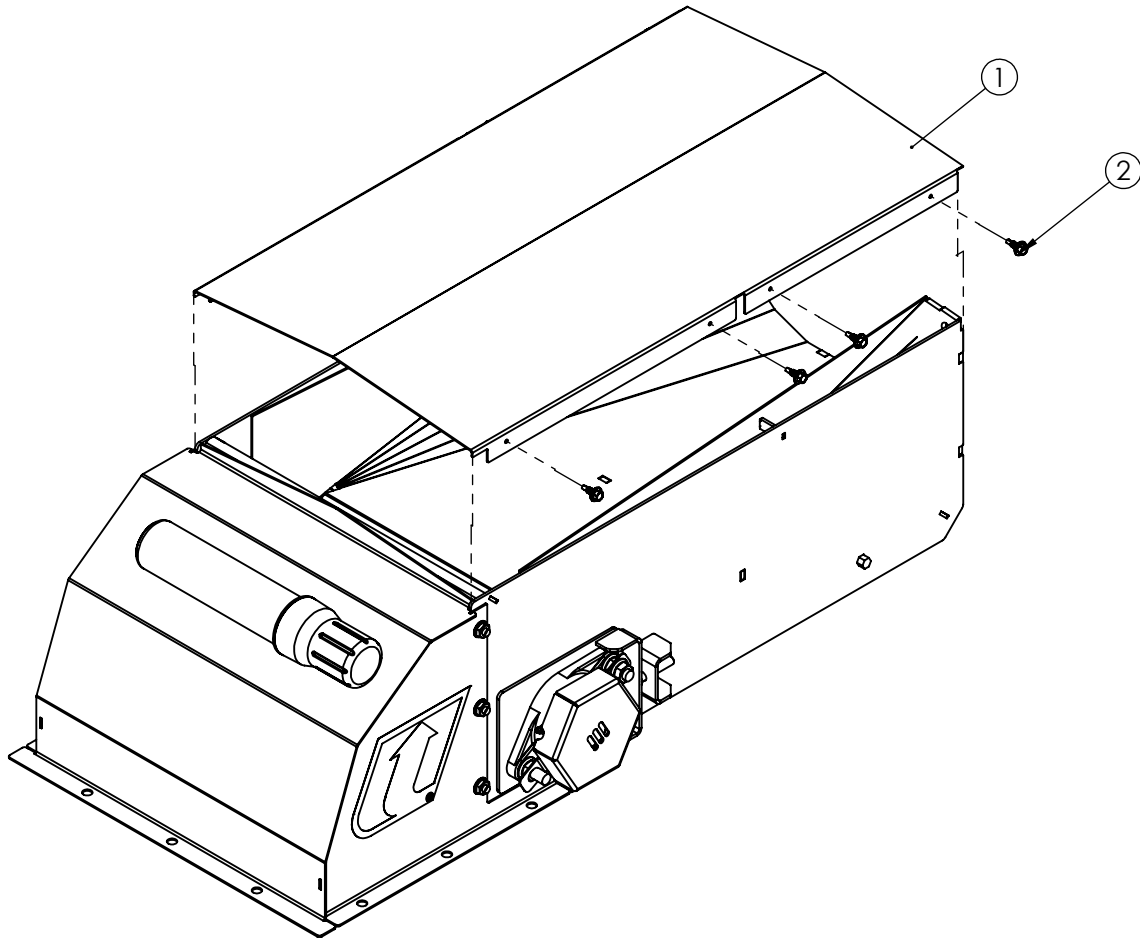
1. ASSEMBLE ① USING ITEM ② AND ③ .

REV :

CENTER-DRIVE HEAD TOP COVER

-THESE ITEMS SHOULD BE SHIPPED WITH THE CONVEYOR AND BE INSTALLED IN THE FIELD DURING INSTALLATION OF THE UNIT.

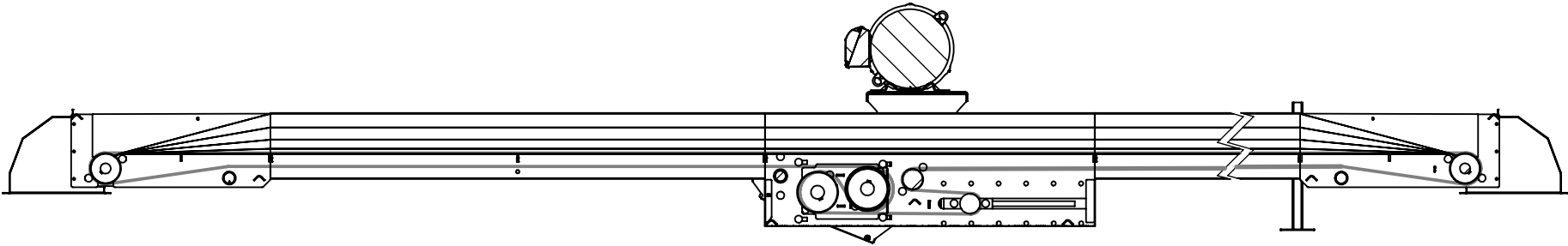
ITEM	PART NUMBER	DESCRIPTION	QTY
1	73088	COVER,HEAD,HBC,GS	1
2	72427	SCREW,SDS3,HWH,0.25-14X0.75,ZP	8



ASSEMBLY:

1. ASSEMBLE TOP COVER ITEM ① USING ②.


BELT PATH



-BELTING FORMULA WHEN USING A CENTER-DRIVE $C/C * 2 + 80"$.

PROPRIETARY AND CONFIDENTIAL:

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSAL INDUSTRIES, INC. CEDAR FALLS IA 50613. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSAL INDUSTRIES, INC. IS PROHIBITED.

 Universal Industries, Inc. Cedar Falls, IA 50613-0308	DATE DRAWN:	DIM TOLERANCE: UNLESS OTHERWISE SPECIFIED			
	DRAWN BY:	LINEAR	ANGULAR	HOLE	DECIMAL
	SCALE: NOT TO SCALE	±1/32	±1°	±1/64	.X = ±.010 .XX = ±.005 .XXX = ±.001
MATERIAL:	WEIGHT: LBS	FIRST USE:			SHEETS: 1 OF 1
DESCRIPTION:		DRAWING NO.			REV: 0