

FIGURE 1-1. OPERATOR STATION Seat and Controls

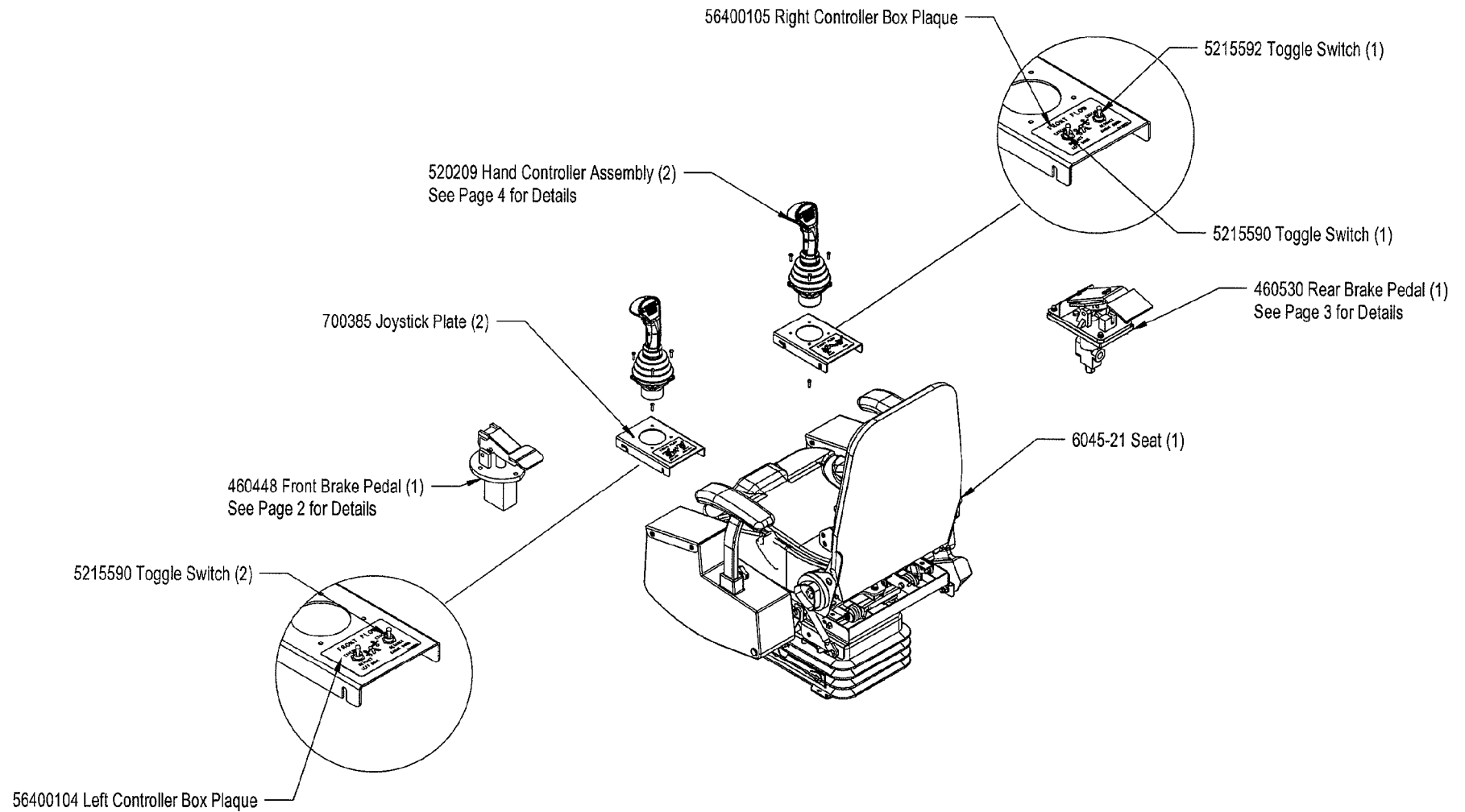
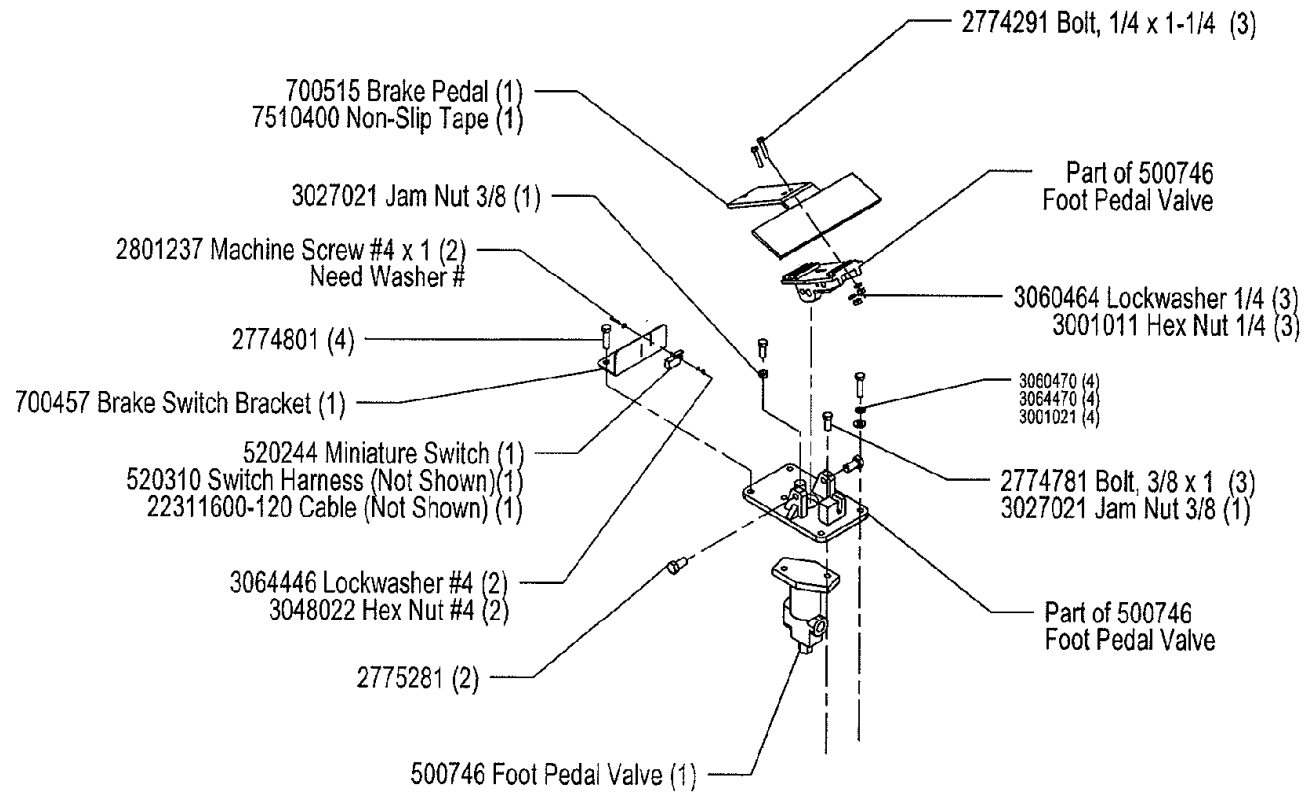
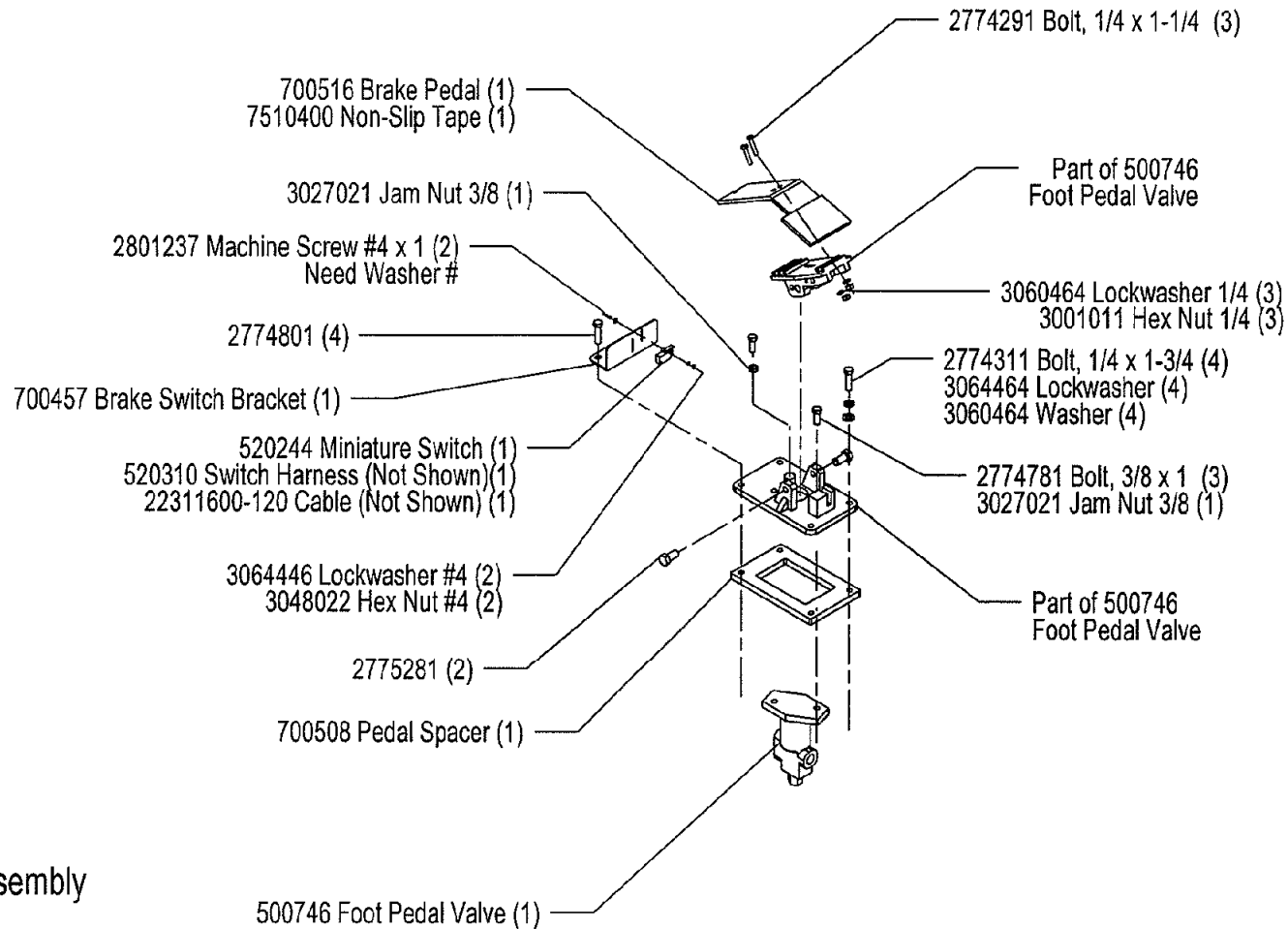


FIGURE 1-1. OPERATOR STATION Seat and Controls



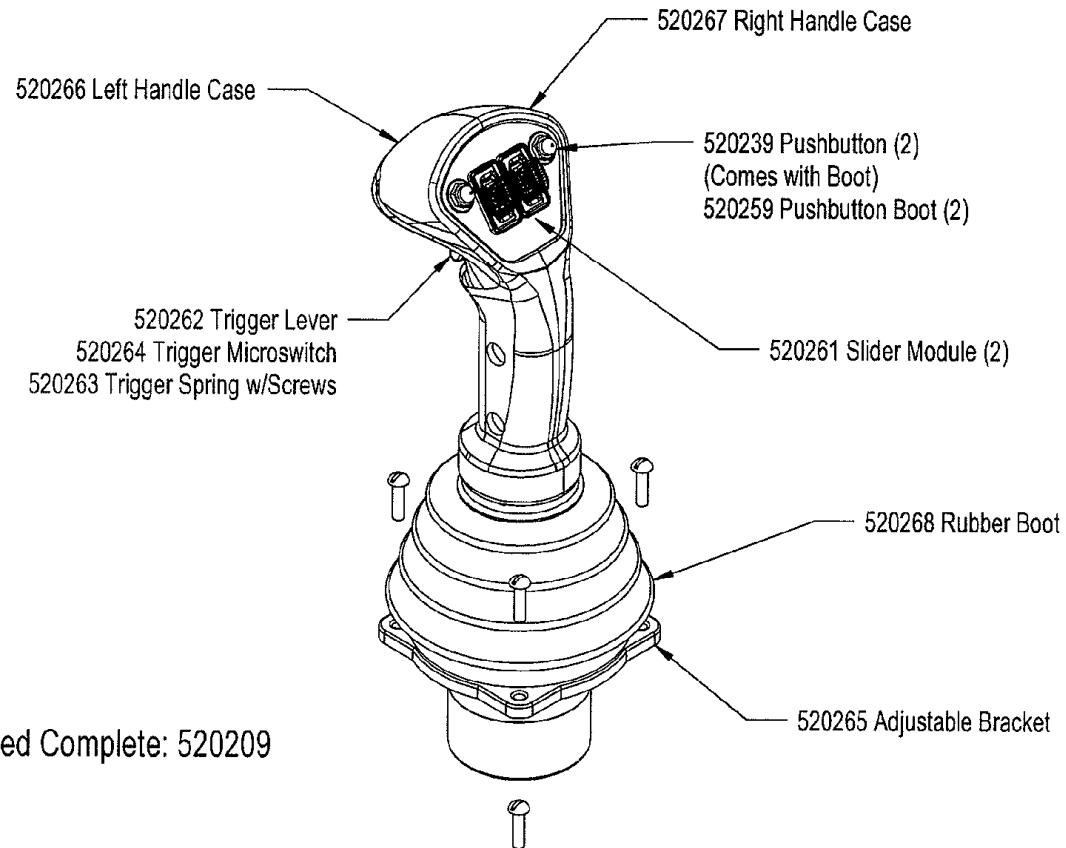
Front Brake Pedal Assembly

FIGURE 1-1. OPERATOR STATION Seat and Controls



Rear Brake Pedal Assembly

FIGURE 1-1. OPERATOR STATION Seat and Controls



Entire Joystick Purchased Complete: 520209

FIGURE 2-1-1. Axles and Drive Housing 35 mph w/24" Demountable Wheels

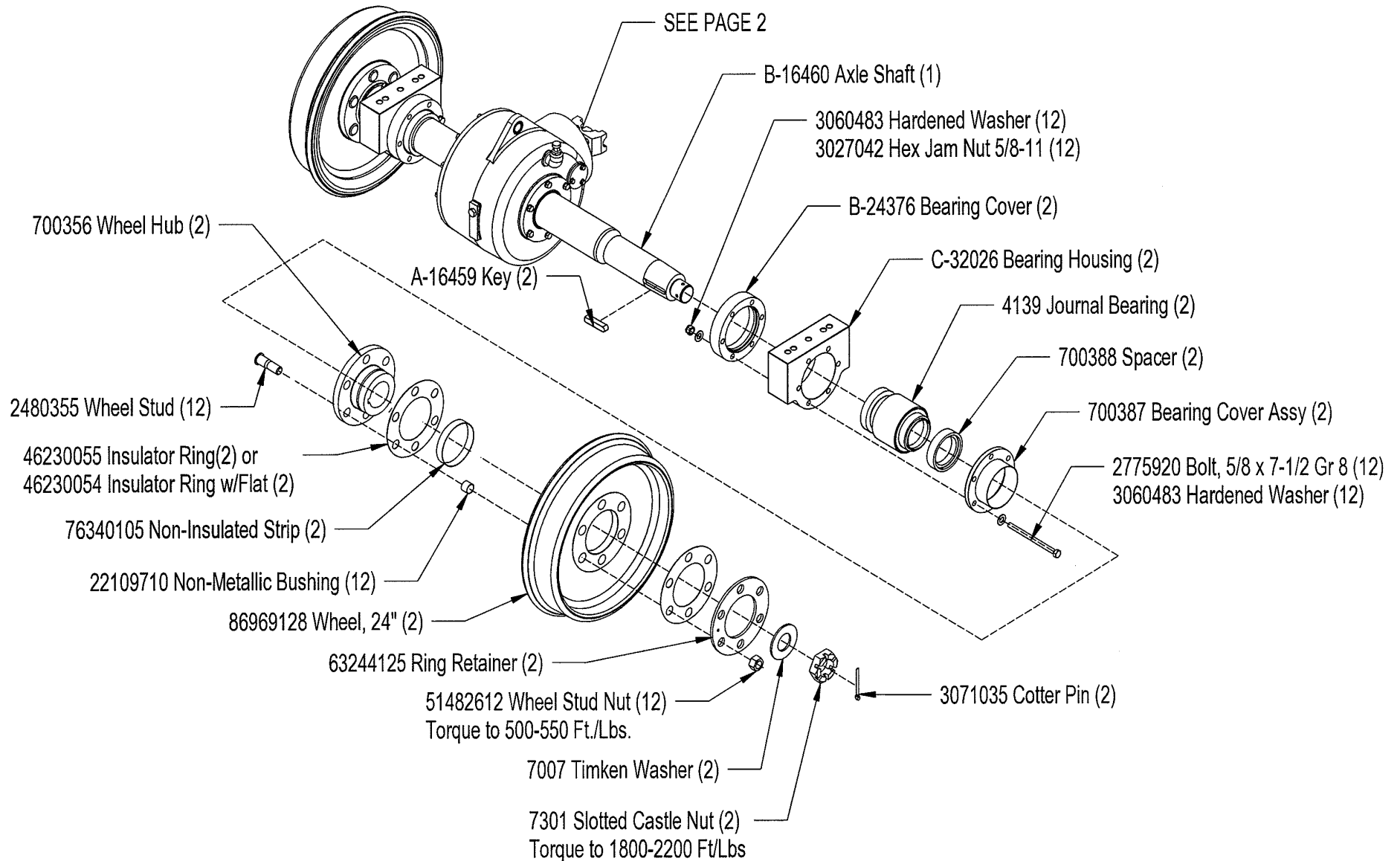
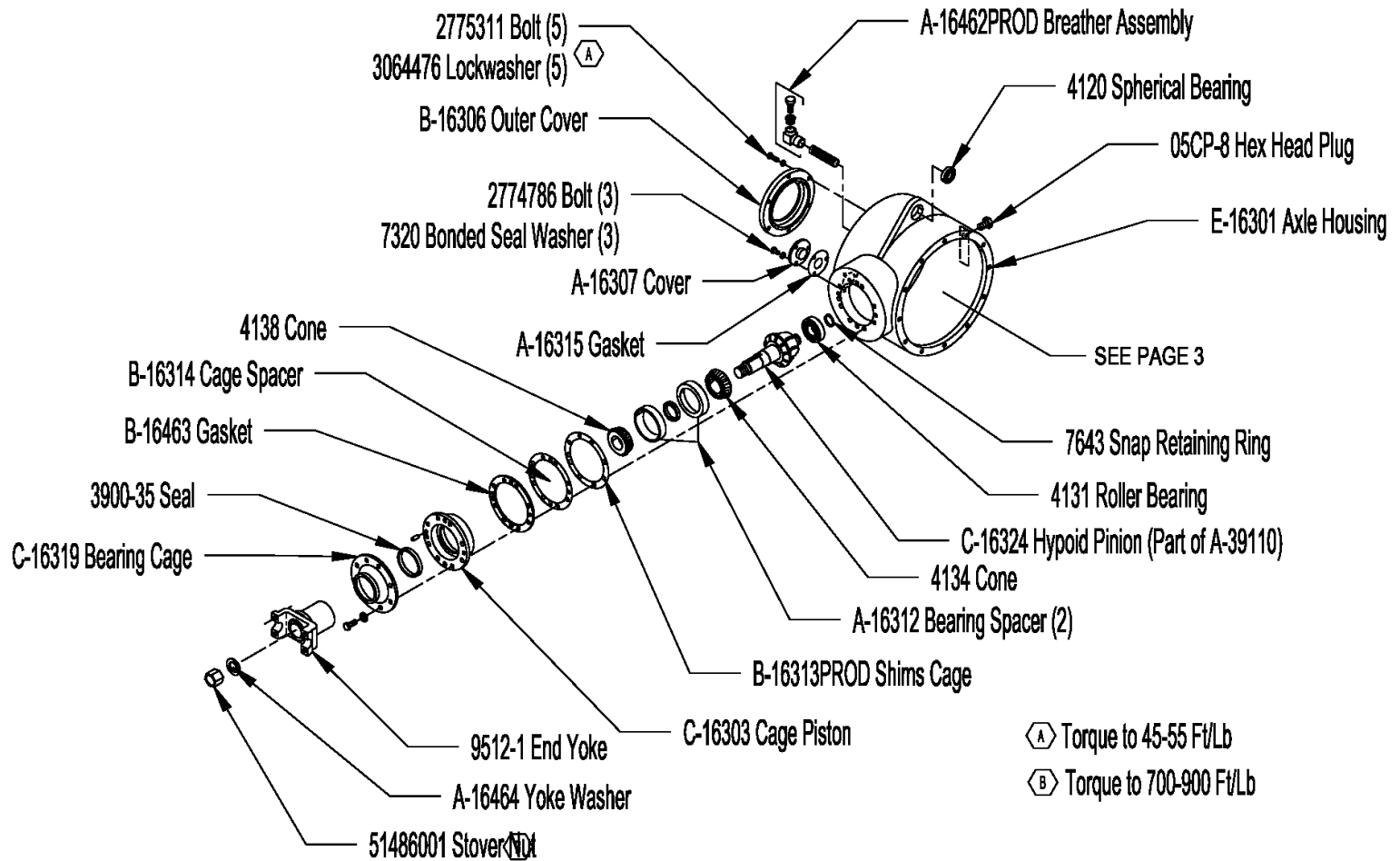


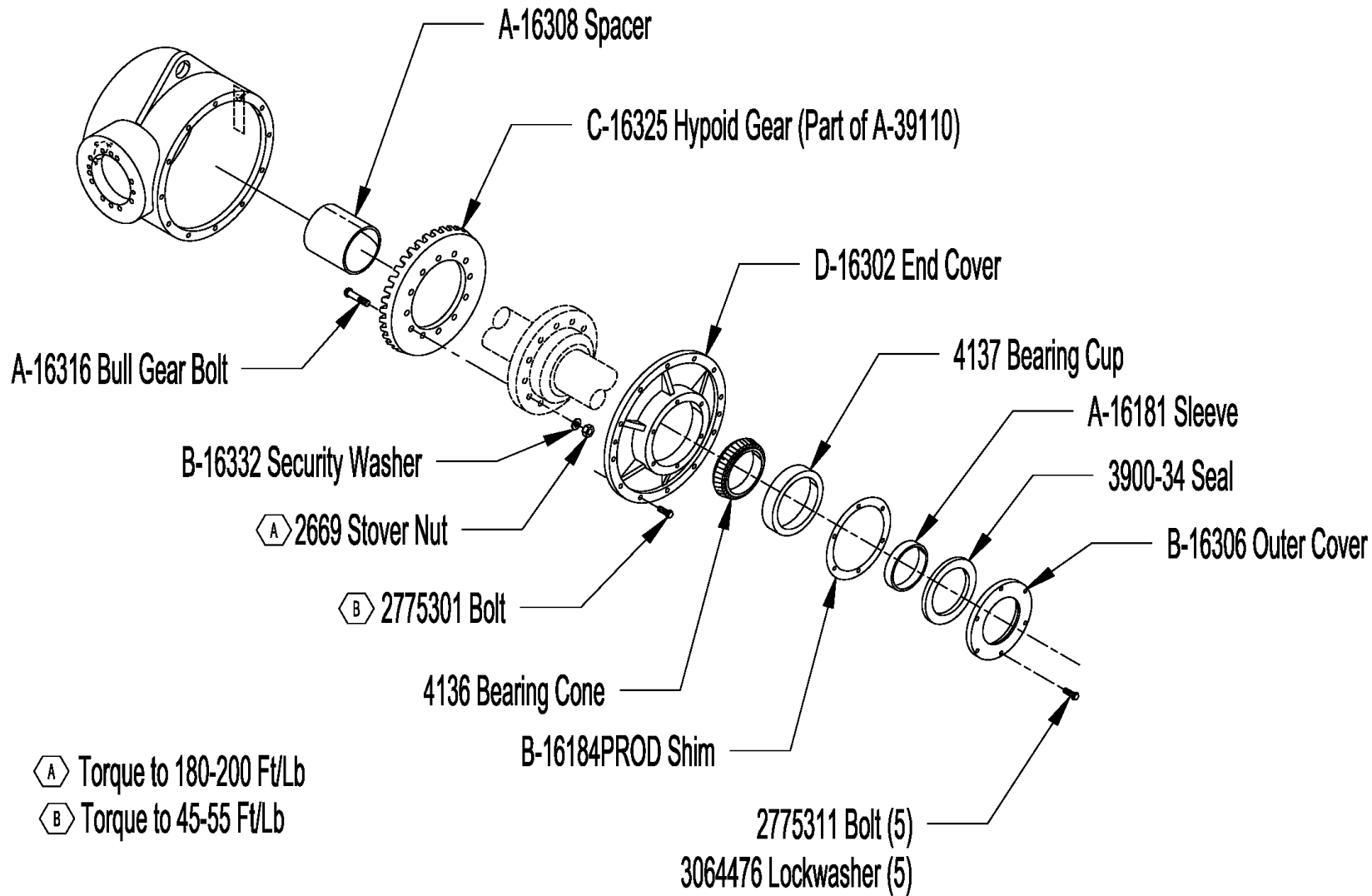
FIGURE 2-1-1. Axles and Drive Housing 35 mph w/24" Demountable Wheels



Not Shown:

Magnetic Plug: 3743
Transducer: 8606

**FIGURE 2-1-1. Axles and Drive Housing
35 mph w/24" Demountable Wheels**



**FIGURE 2-1-2. Axles and Drive Housing
Truck Style Axle**

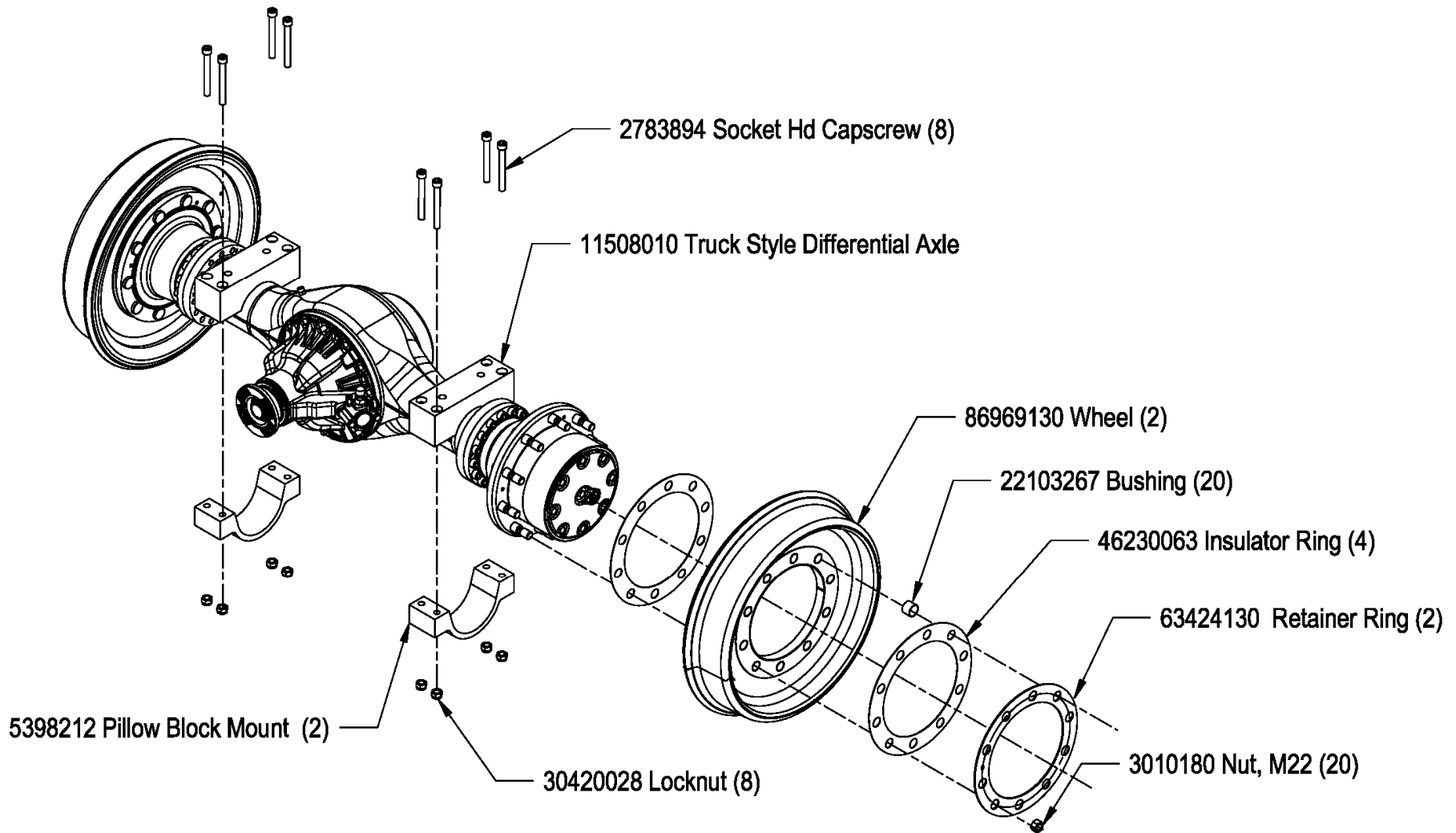
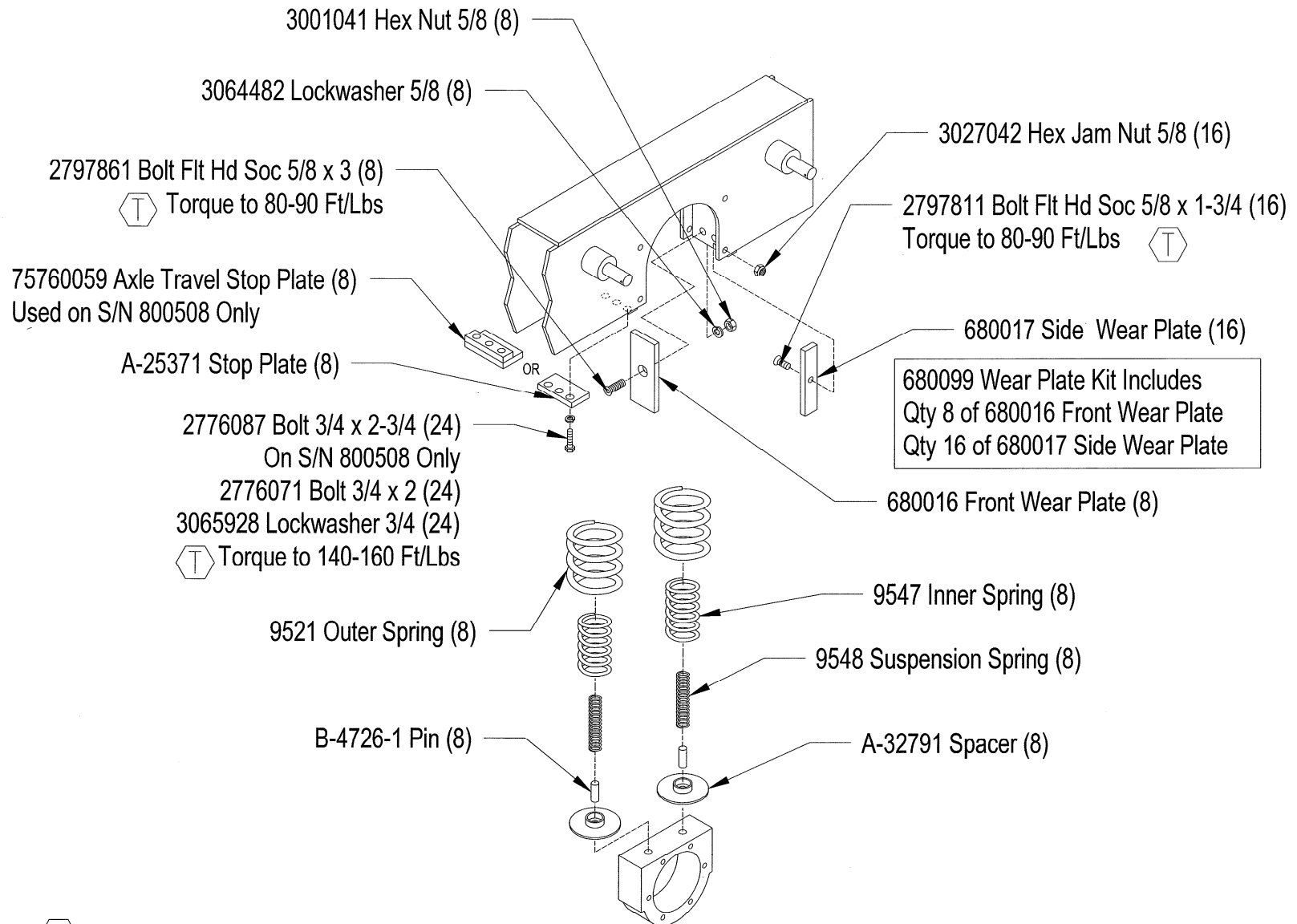
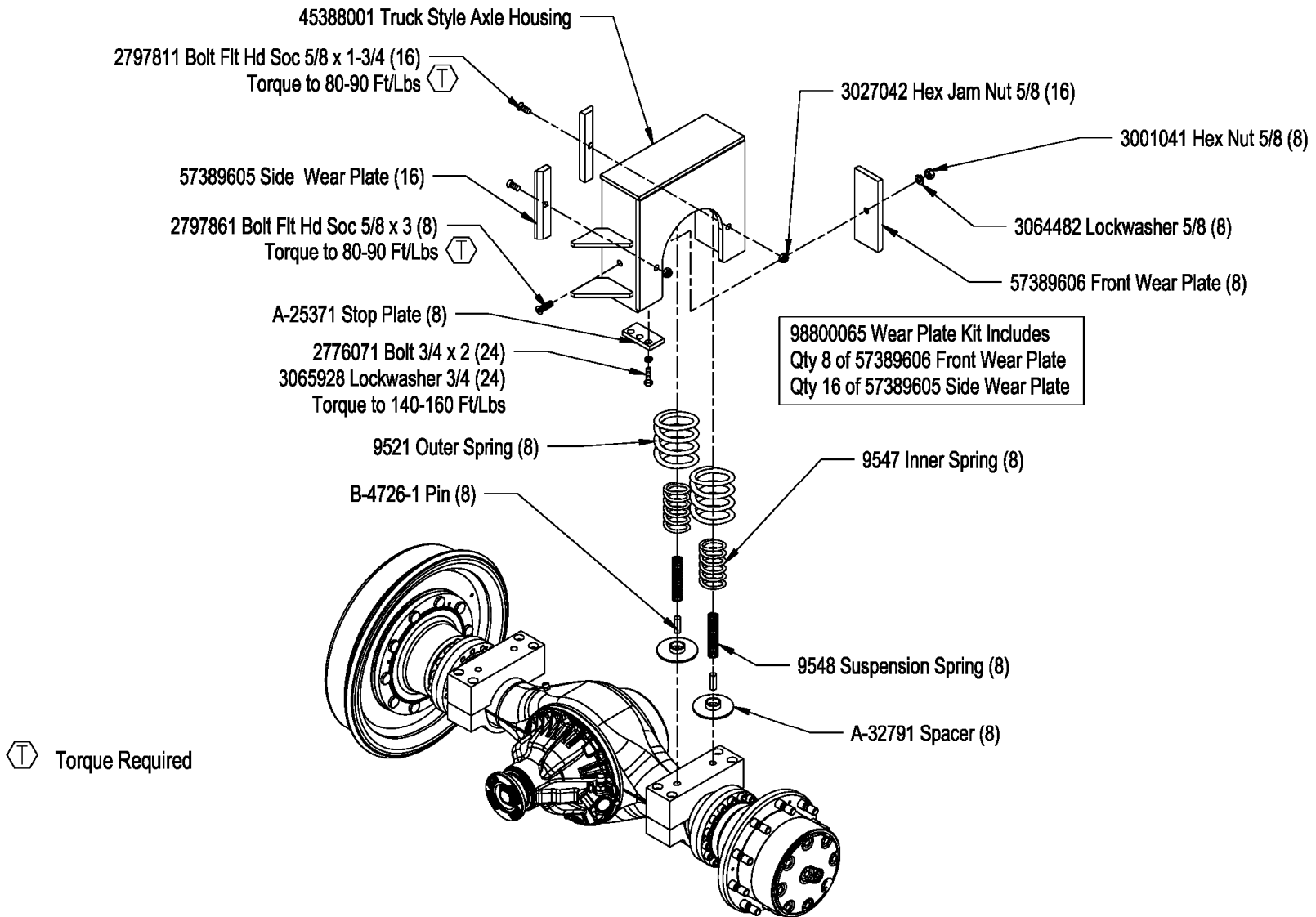


FIGURE 2-2-1. Axles and Drive Housing Standard Axle Suspension

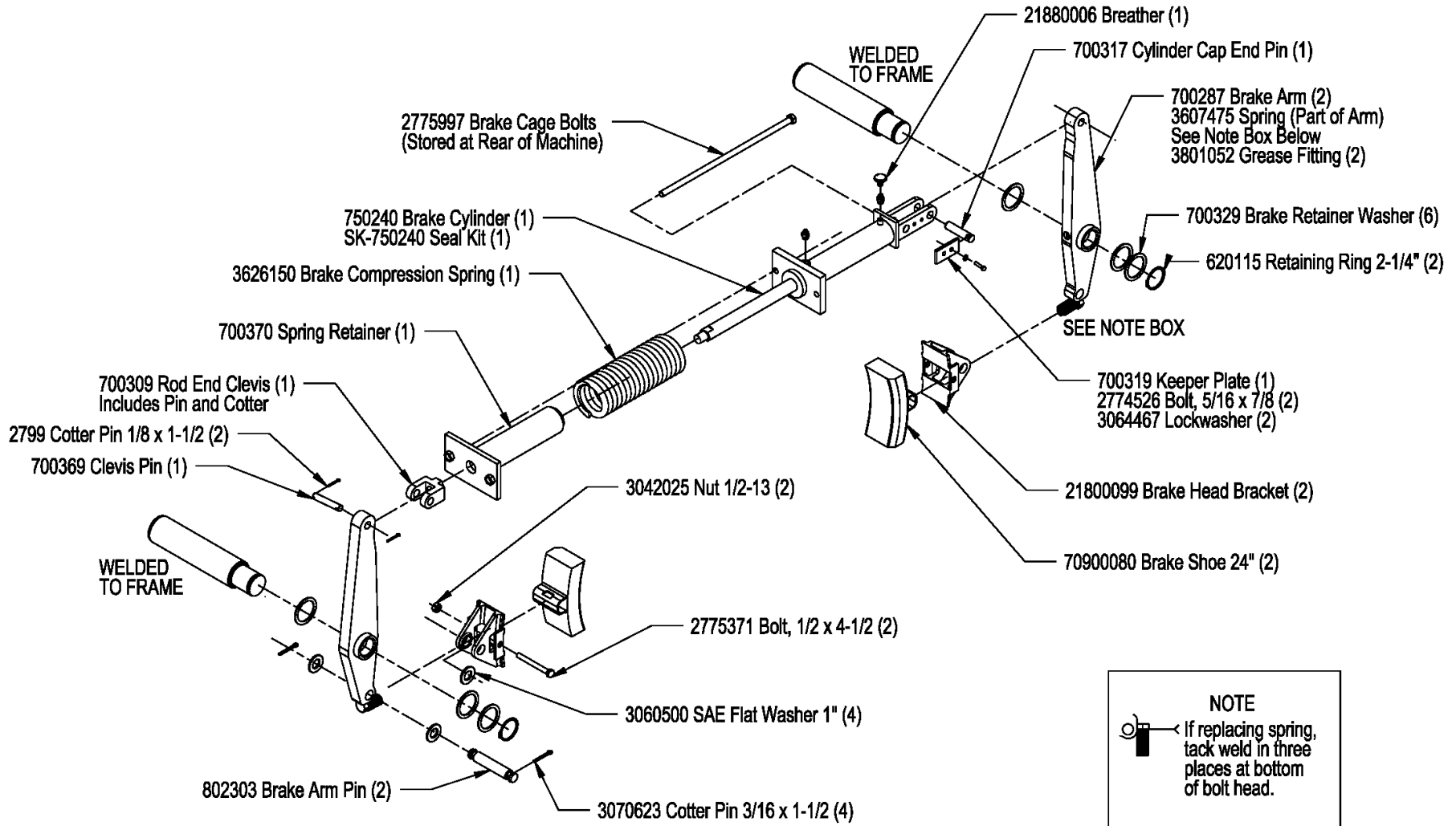



Torque Required

FIGURE 2-2-2. Axles and Drive Housing Truck Axle Suspension (Part of Kit 98800063)



**FIGURE 3-1. HYDRAULIC BRAKES
 Cobra Style**



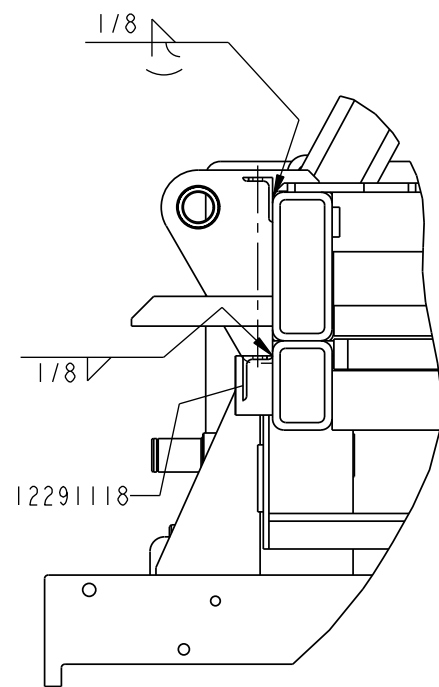
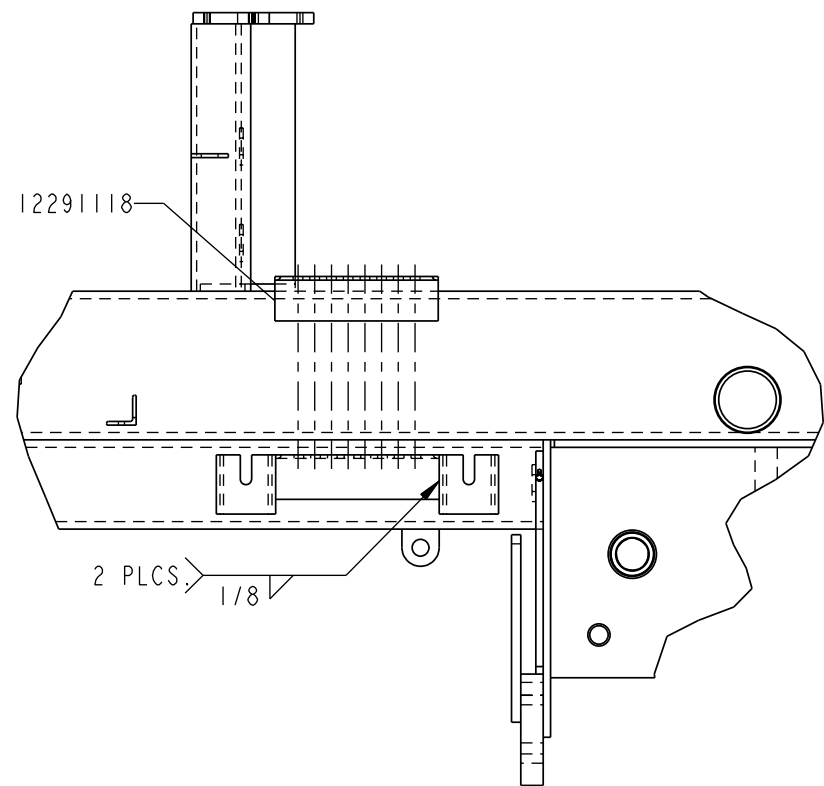
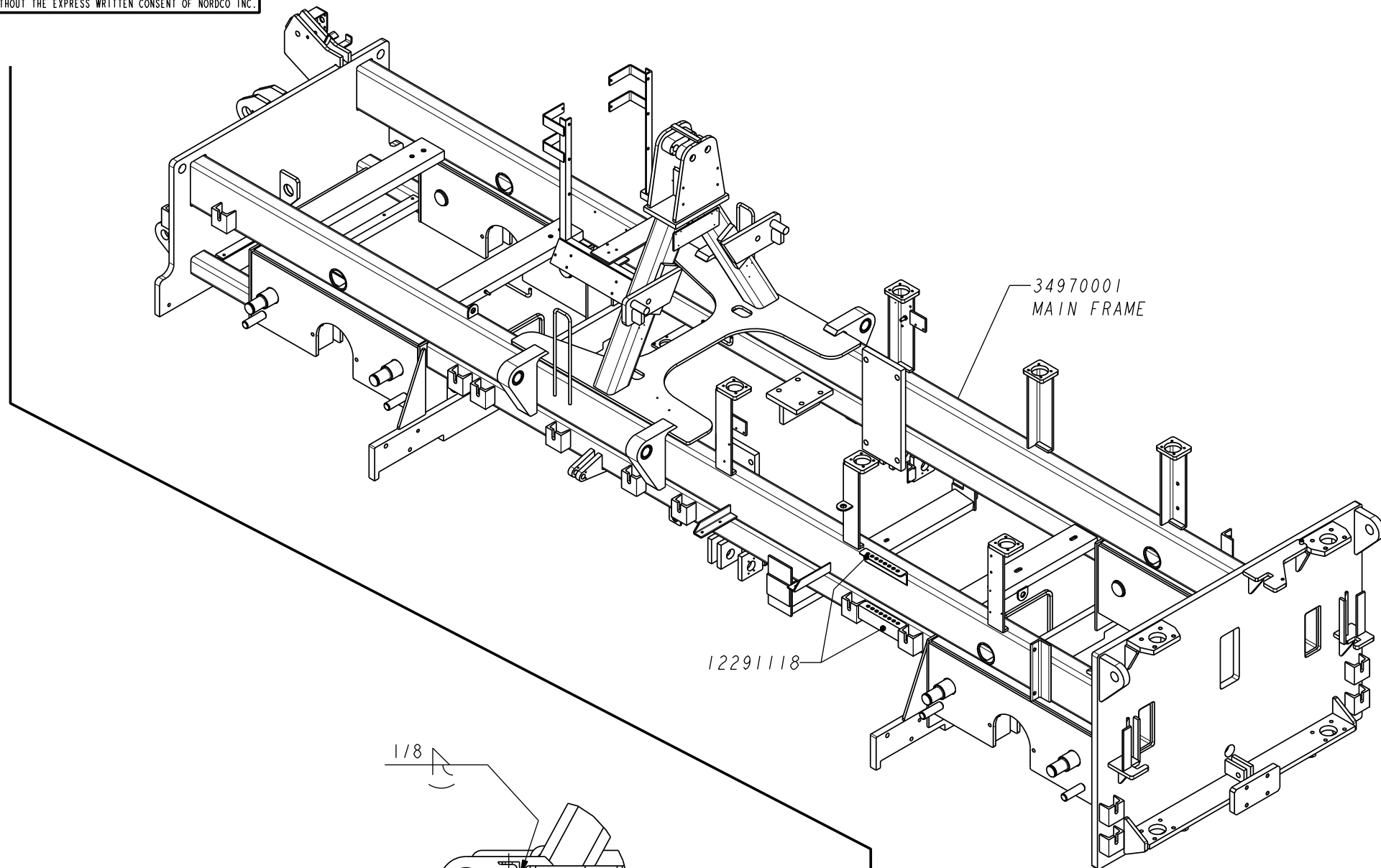
NOTE
 If replacing spring, tack weld in three places at bottom of bolt head.

NO. 97805003DWG

SHEET NO. 111

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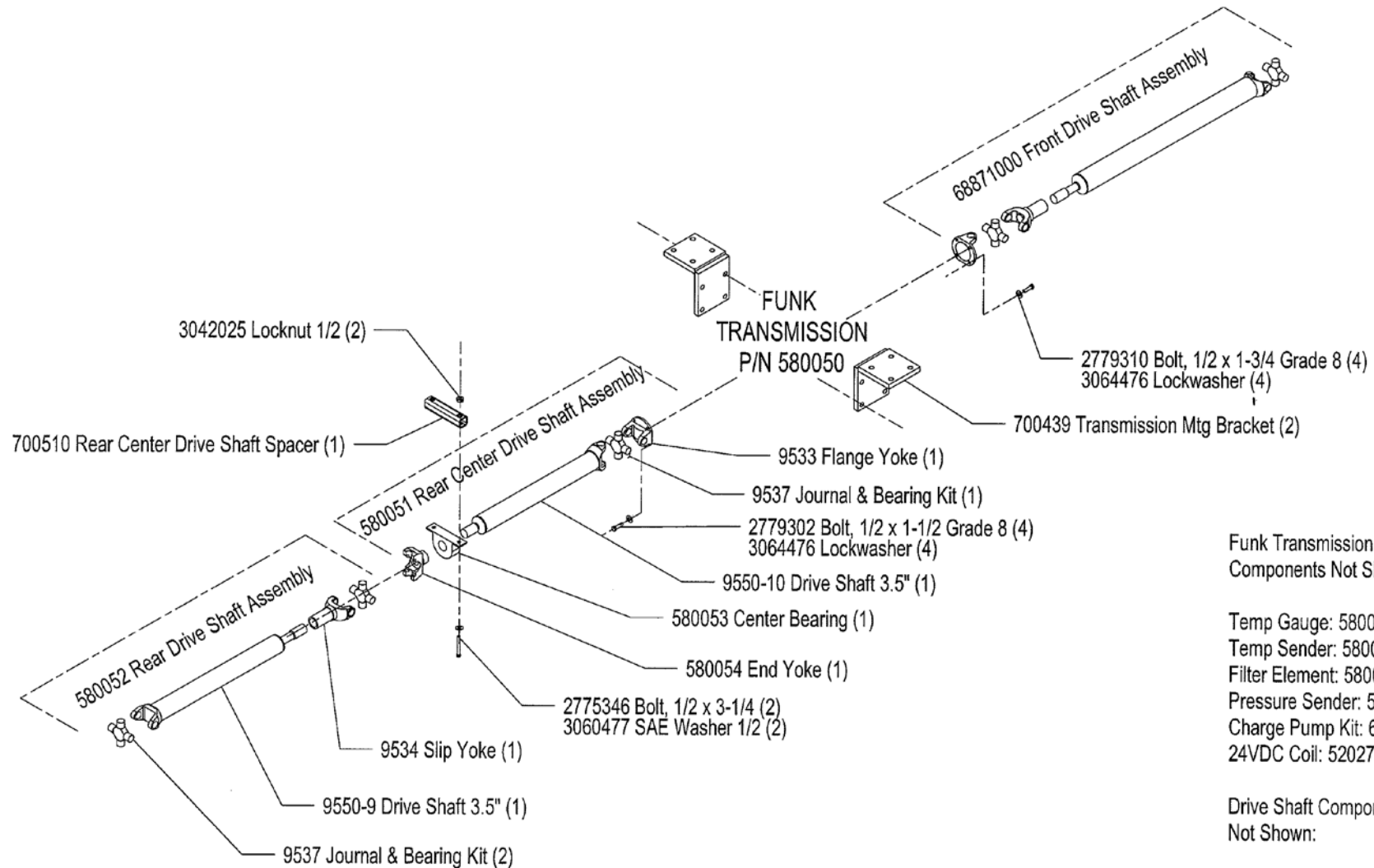
SURFACE PREPARATION:
WELD SLAG AND SPATTER TO BE REMOVED. ENTIRE UNIT THEN CLEANED AND APPROPRIATELY PRIME-PAINTED ONE COAT.



CUSTOMARY: ALL DIMENSIONS IN INCHES					
IMPLIED TOLERANCES		PRODUCT: M7			
DESCRIPTION: CAGING BOLTS STORAGE INSTALLATION		DRAWING CODE NUMBER			
FRACTION	± 1/8	SIZE	SCALE	REV.	
.X	± .06	C	1/8	97805003DWG	-
.XX	± .03	ASSEMBLY: -		SHEET 1 OF 1	
.XXX	± .010	MACHINE FINISH UNLESS OTHERWISE STATED			
PLANE ANGLES +/- 1°		E.C.O. # 600278			

△	PRODUCTION RELEASE	LCP	8/26/10	600278
REV	CHANGE	DRAWN BY:	CHECKED BY:	DATE:
		DATE:	APPROVED BY:	DATE:

FIGURE 5-1. Drive Shafts



Funk Transmission
Components Not Shown:

Temp Gauge: 580057
 Temp Sender: 580056
 Filter Element: 580048
 Pressure Sender: 580042
 Charge Pump Kit: 660202
 24VDC Coil: 520270

Drive Shaft Components
Not Shown:

Bearing Strap Kit: 9519-1

FIGURE 5-3. Torque Arms

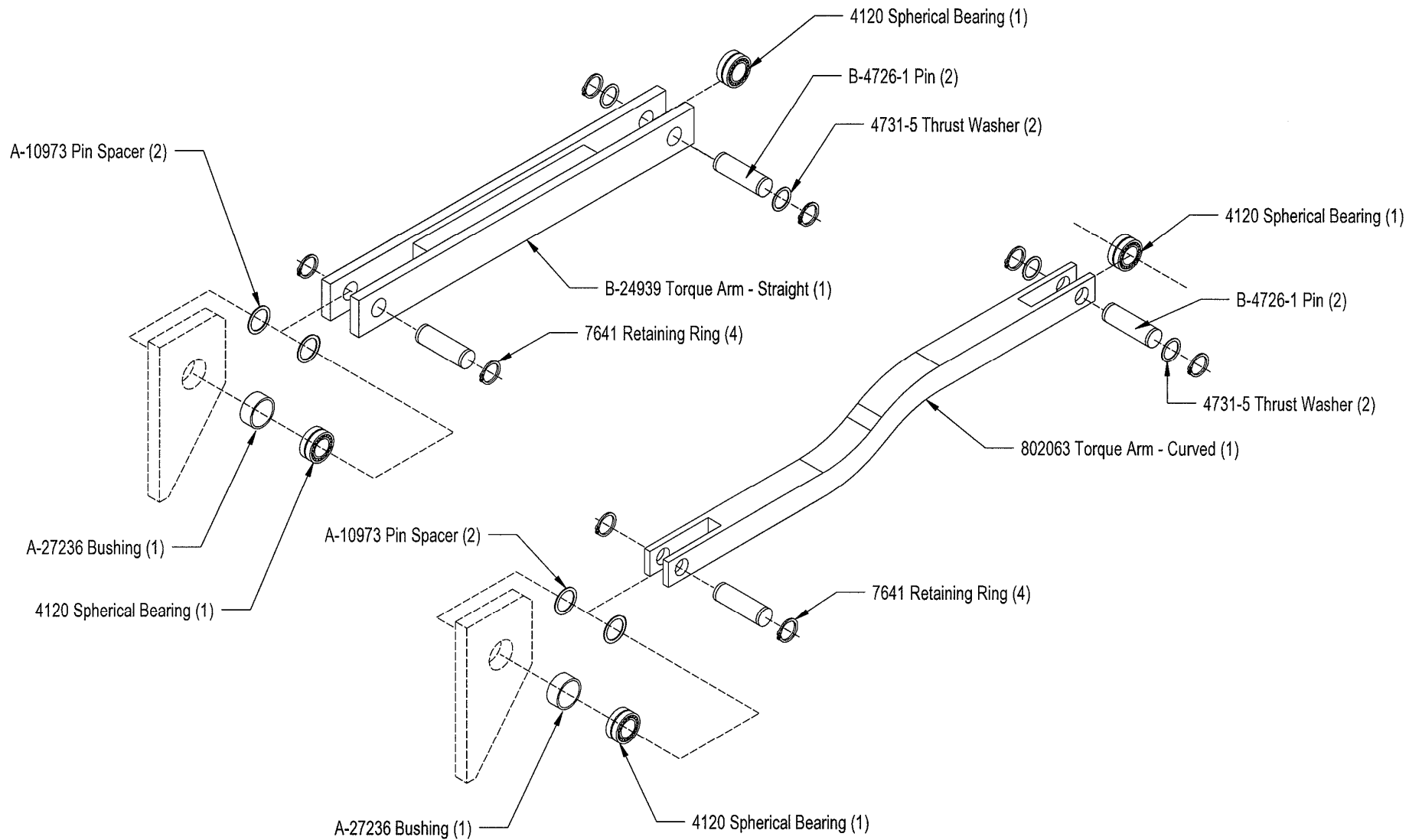
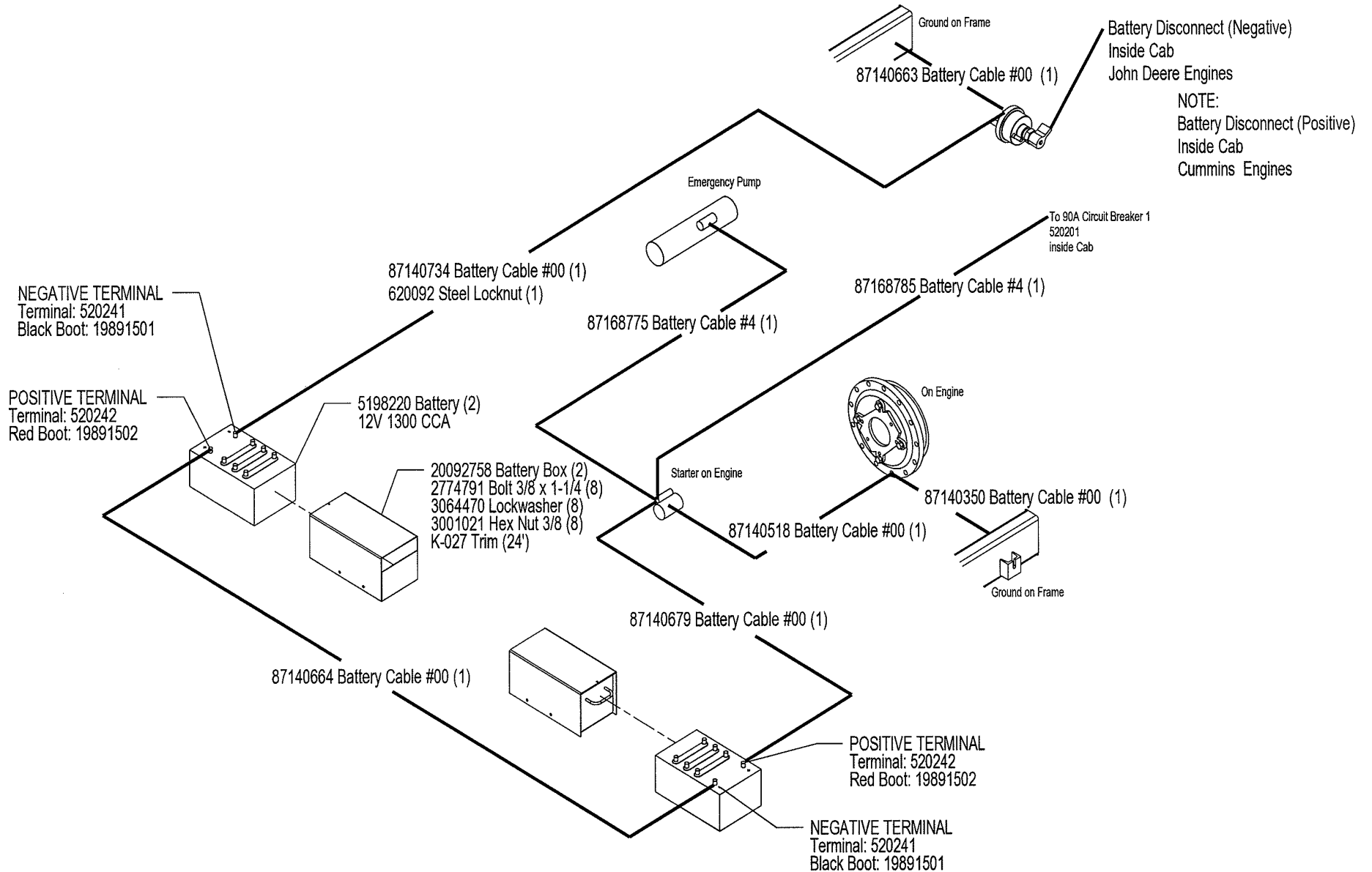
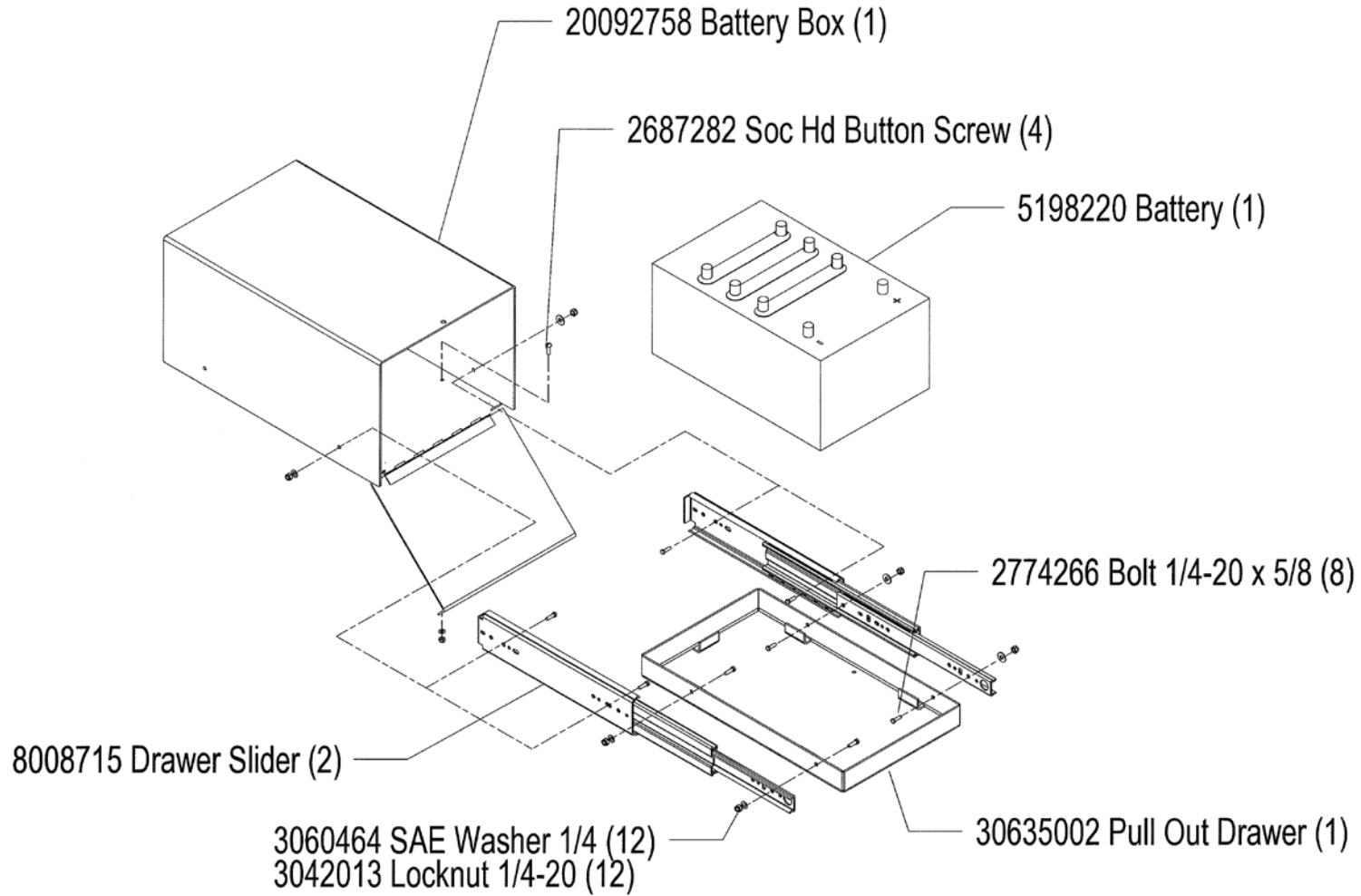


FIGURE 6-1A. Battery Box





Not Shown: 0658100 Trim, Vinyl Protective x 12 inches (AR)

**FIGURE 6-3. Frame Accessories
Rail Sweeps**

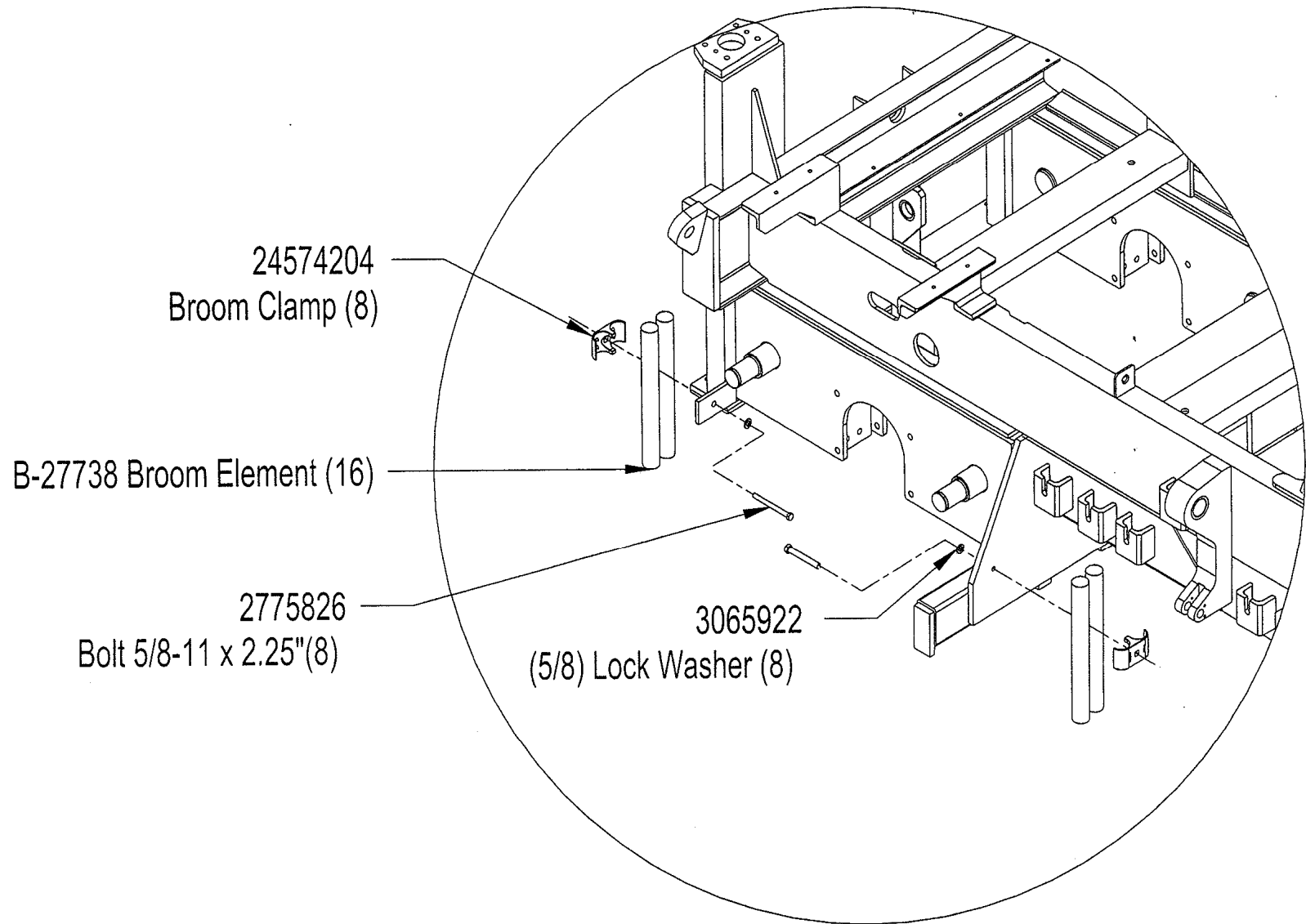
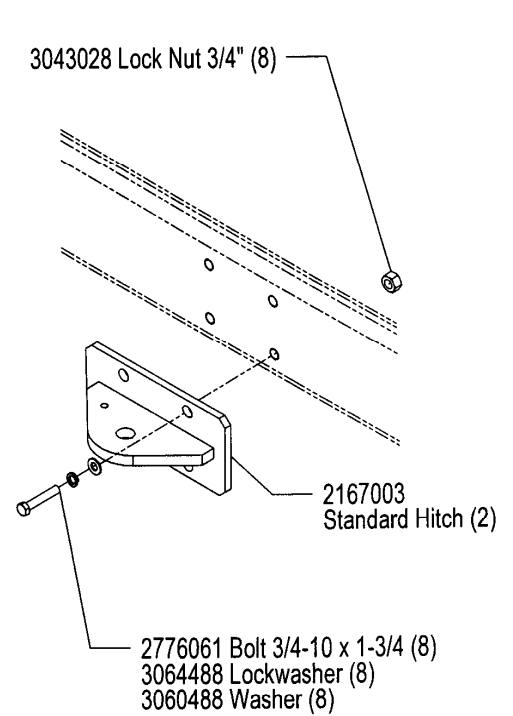
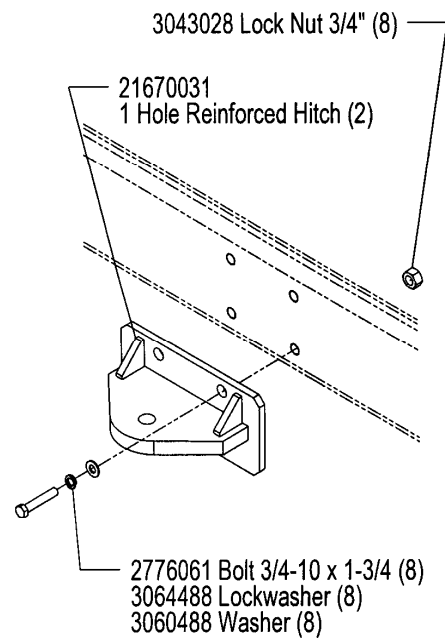
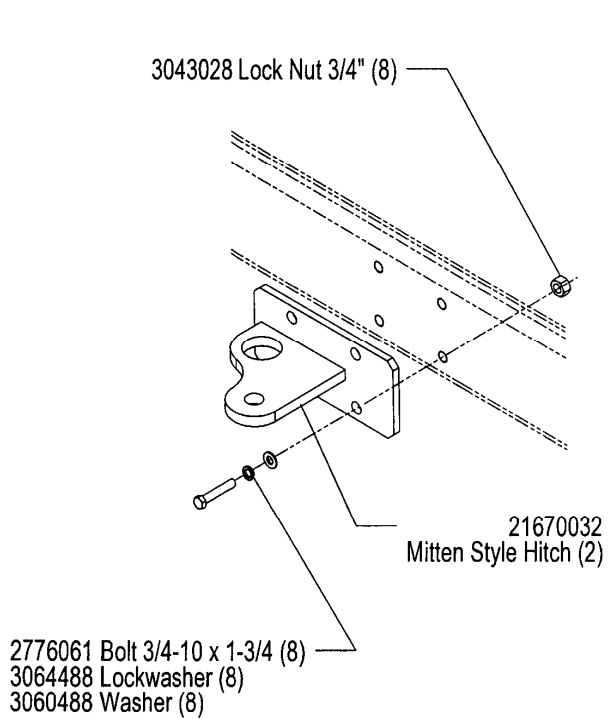
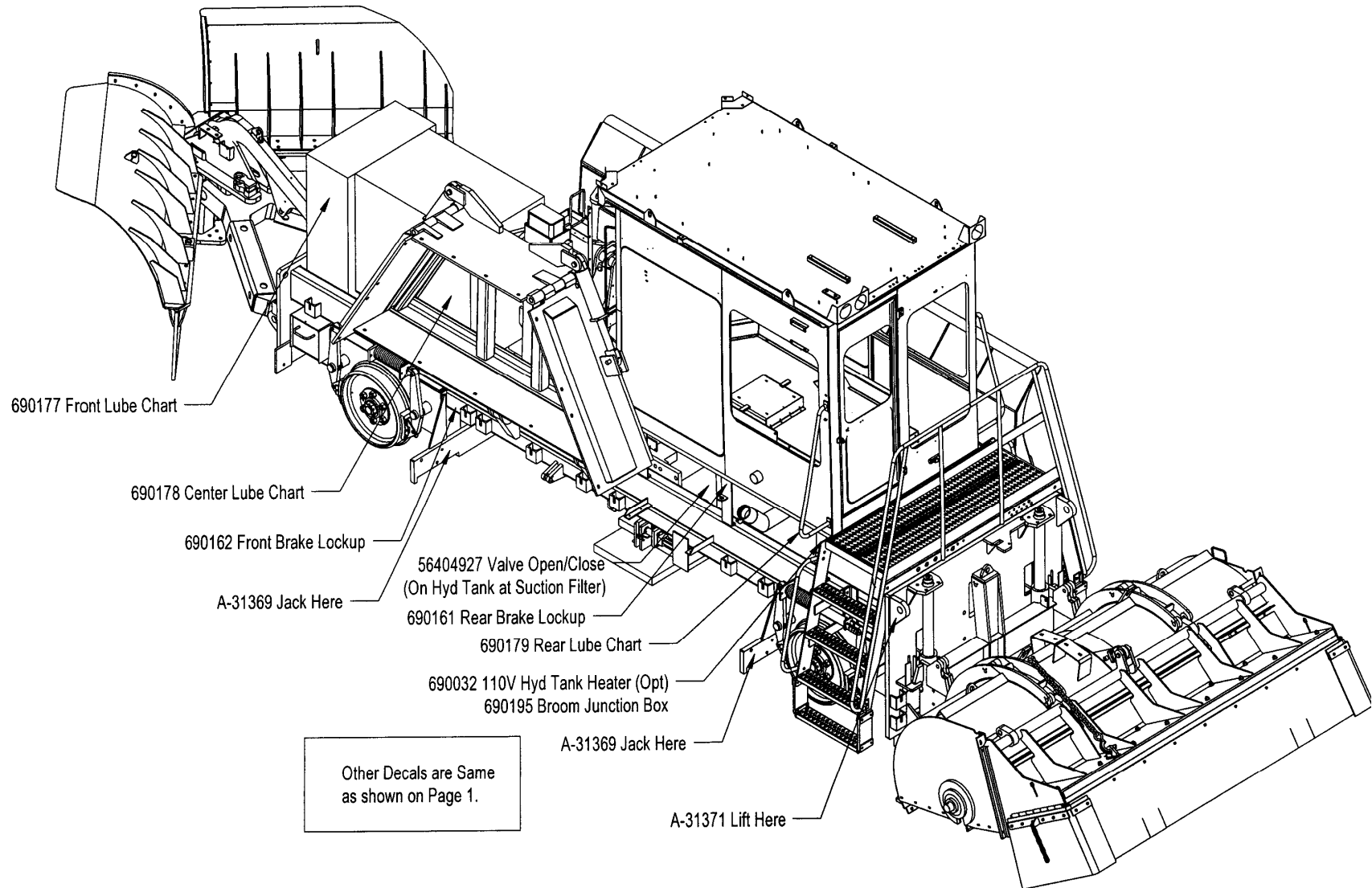


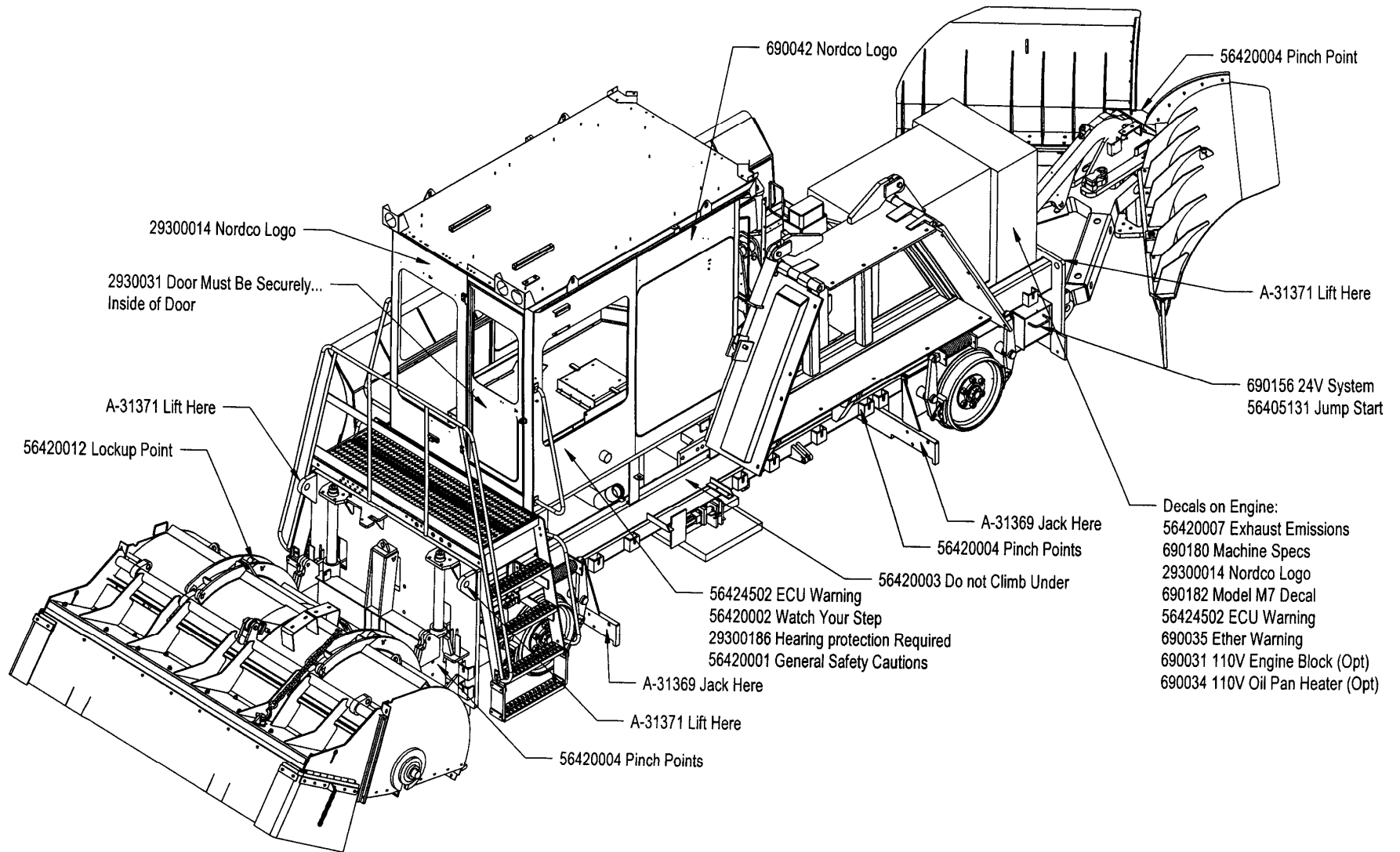
FIGURE 6-4. Frame Accessories Hitches



**FIGURE 6-5. Frame Accessories
Decals and Plaques**



**FIGURE 6-5. Frame Accessories
Decals and Plaques**



NOTICE

Due to the different configurations available for engines, drawings will not be provided. The following list details this engine only.
When calling Superior Diesel for support on this Engine, Reference the ES Code number listed below. Make certain you Have the S/N of the engine available at time of service call.

ES30709

Rated Horsepower: 275hp@2500 rpm
Operating RPM: 2500 rpm high idle
1100 rpm low idle

See Next Page for More Detail

ITEM NO.	PART NO.	DESCRIPTION	UNITS PER ASSEMBLY
1	31750335	John Deere 6068 Tier 3.....	1
2		90 Amp Circuit Breaker.....	1
3		Amp Alternator.....	1
7	600117	Water Temp Sender.....	1
8	600118	Oil Pressure Switch (12 psi).....	1
9	96760104	Drive Assembly (Funk).....	1
--	65558925	Pump Drive Dipstick.....	1
--	37030248	O-Ring.....	1
--	10213738	Pump Adapter 13T/14T.....	1
--	4028011	Bell Housing Cover.....	1
--	4028060R	Drive Shaft.....	1
--	40281589	Drive Plate.....	1
--	10213813	Sleeve Adapter.....	1
10C	FG-7BN	Oil Drain Valve.....	1
11		Engine Enclosure Harness.....	1

FIGURE 7JD-1. JOHN DEERE ENGINE 6068HF485 Tier 3 with AC Compressor

ITEM NO.	PART NO.	DESCRIPTION	UNITS PER ASSEMBLY
12C	600LWD	Oil Pan Heater.....	1
13◆	47865K23	Heater Shutoff Valves.....	2
14	10285218	Reversible Fan.....	1
--	Contact Nordco	Filter (Flexairre 14094).....	1
15◆	47865K22	Brass Shutoff Valve (for Coolant Cond.) ..	2
16	7028300	Air Restriction Gage (Informer 25).....	1
17	600268	Radiator.....	1
18C	90-0174	AC Pump.....	1
19C	90-0135	Winterguard Removeable Cover.....	1
20	520224	Engine Harness.....	1
21	5190300	Engine Dome Light.....	2

CONSUMABLES/WEAR ITEMS:

31	3894518	Primary Fuel Filter.....	1
31	3894519	Final Fuel Filter.....	1
32	3894507	Oil Filter.....	1
33C	R131434	Serpentine Belt.....	1
35	3894504	Coolant Filter Element).....	1
36	3894528	Primary Air Filter.....	1
37	3894530	Safety Air Filter.....	1

CONSUMABLE X-REF LIST

DESCRIPTION	OEM P/N	NAPA P/N	WIX P/N
Primary Fuel Filter	RE529643	3977	33977
Final Fuel Filter	E522878	3978	33978
Oil Filter	RE504836	7750	57750
Serpentine Belt	R131434		N/A
Coolant Filter	NF2088	4088	24088
Primary Air Filter	P537876	2803	42803
Safety Air Filter	P537877	2804	42804

- ☛ This is a Superior Diesel Part Number
- ◆ This is a McMaster Carr Part Number

See Next Page for Engine Air/Exhaust Components

FIGURE 7JD-1. JOHN DEERE ENGINE 6068HF485 Tier 3 with AC Compressor

90-0139 Diagonal Support Brace (2)



90-0140
Stack
Mount
Bracket
(4)

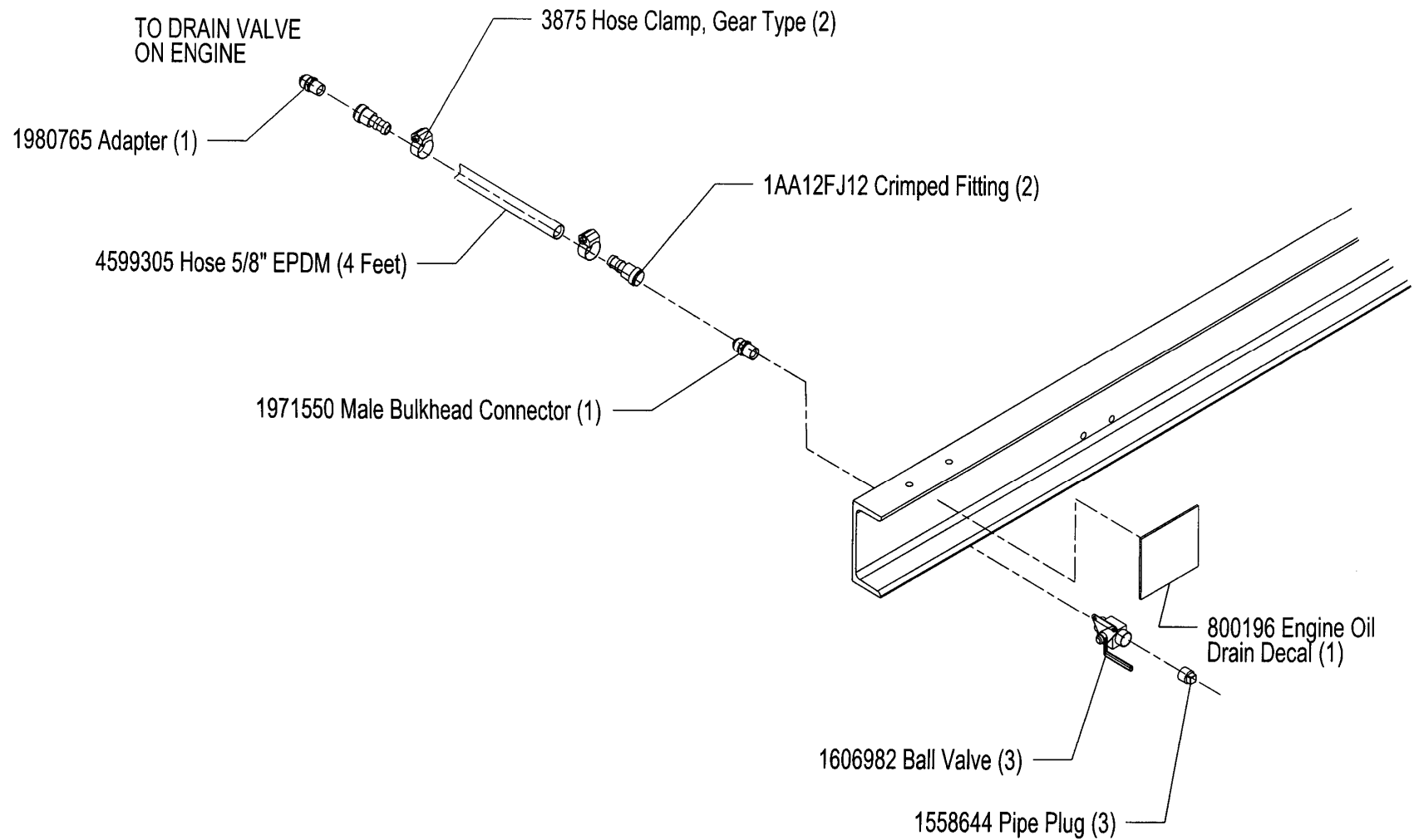
90-0138
Vertical Support
Bracket (2)

90-0137 Horizontal Support Bracket (1)

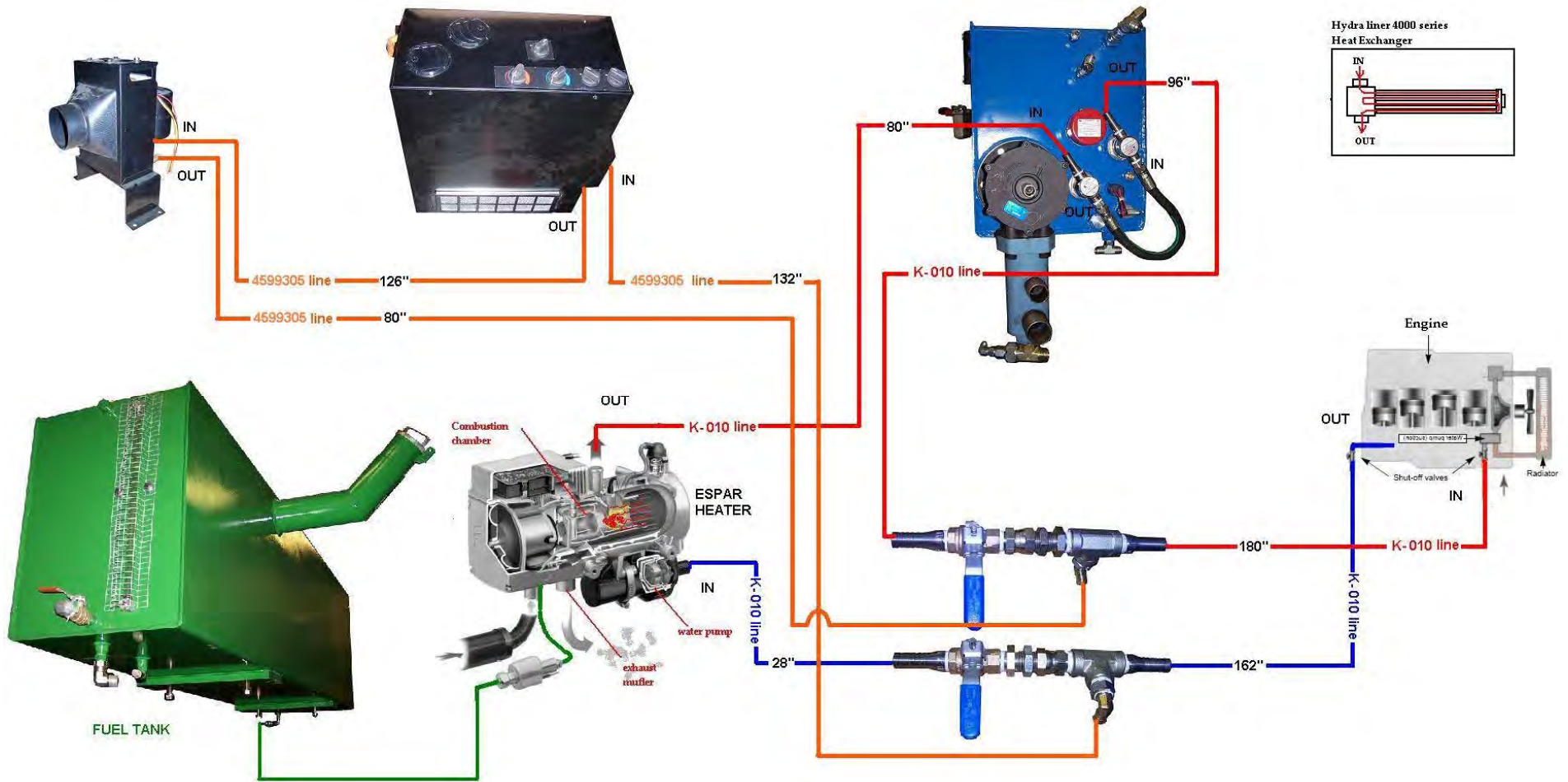


BELT ROUTING

FIGURE 7-1. Engine Remote Engine Drain



**FIGURE 7-2. ENGINE
Espar Heater Option**



Espar Heater M7 (Option)

Stock code	Description	Qty	U/m
8986	HEATER,ESPAR 24 VOLTS	1	EA
600070	COMBUSTION AIR BLOWER	1	EA
600071	SEAL	1	EA
600072	WATER PUMP	1	EA
600073	TEMPERATURE SENSOR	1	EA
600074	OVERHEAT SENSOR	1	EA
600075	FLAME SENSOR	1	EA
600076	SEAL	1	EA
600077	SEAL	1	EA
600078	SEAL	1	EA
600079	O-RING	1	EA
600080	O-RING	1	EA
600081	O-RING	1	EA
600082	FUEL METERING PUMP	1	EA
690200	DECAL,ESPAR HEATER VALVE	1	EA
690030	DECAL,ESPAR CAUTION	1	EA
56407061	PLAQUE,ENG COOLANT VLVS	1	EA
690201	DECAL,ESPAR HEATER VALVE	1	EA
4599310	HOSE,.75 I.D. LOW PRES	45	FT
500695	HOSE PACKAGE,ESPAR HEATER M7	1	EA
4599305	HOSE,HEATER 5/8 ID EPDM	7	FT
4599305	HOSE,HEATER 5/8 ID EPDM	11	FT
3875	HOSE CLAMP GEAR-TYPE	4.00	EA
HT***** *	*****HYD TANK*****	0	EA
1992196	NIPPLE,3/4MNPT-3/4BARB BRASS	2	EA
43800030	= "HEATER,HYD TANK 16" H2O/OIL"	2	EA
3856	HOSE CLAMP GEAR TYPE	10.00	EA
1980768	ADPT 1.06-12M JIC X3/4MP BRASS	2	EA

Espar Heater M7 (Option)

Stock code	Description	Qty	U/m
FR*****	*****FRAME ITEMS*****	0	EA
1954065	ADPT 1.062-12F JIC X 3/4P	2	EA
1992196	NIPPLE,3/4MNPT-3/4BARB BRASS	4	EA
1606982	VALVE,BALL 3/4 NPT LOCKABLE	2	EA
1971165	ADPT 1.062-12 X 3/4MP	2	EA
022T-12-12	ADAPTER TEE	2	EA
1505031	BUSH HX 3/4X1/2	2	EA
3799-185	ELBOW, 90DEG.	2	EA
1971550	= "ADPT,BULKHEAD-12 TO 3/4" NPT"	2	EA
FT*****	*****FUEL TANK*****	0	EA
FD4510030404	QUICK DISCONNECT FEMALE	1	EA
FD4510020404	QUICK DISCONNECT MALE	1	EA
1992205	COUPLING 1/4 NPT-1/4 HOSE BARB	1	EA
2076040	ADPT 9/16-18 TO 1/4 NPT	1	EA
2101-4-4	ADAPTER	1	EA
EH***** *	*****ESPAR HEATER*****	0	EA
3064464	WASHER LOCK .250	1	EA
3001011	NUT HEX .250-20	1	EA
2775301	CPSCR HX .5X1.5	2	EA
3060476	WASHER SAE .500	2	EA
3042025	LOCNUT HEX 1/2-13	2	EA
4599305	HOSE,HEATER 5/8 ID EPDM	11	FT
3875	HOSE CLAMP GEAR-TYPE	4.00	EA



FIGURE 7-C1. CUMMINS TIER 3 ENGINE

Cummins Tier 3 Engine

Stock code	Description	Qty	U/m
460450	ASSY,ENGINE CUMMINS TIER 3	1	EA
480147	DRAWING, LIFT LUGS ACCESS	0	EA
600250	ENGINE,CUMMINS QSC8.3 C305	1	EA
600256	ASSY, FILTER COMPRESSOR	1	EA
600257	FILTER, OIL CUMMINS QSC8.3	1	EA
600258	FILTER, FUEL CUMMINS QSC8.3	1	EA
600259	FILTER, FUEL WATER SEPARATOR	1	EA
600260	FILTER, AIR OUTER	1	EA
600261	FILTER, AIR INNER	1	EA
600262	STARTER MOTOR, CUMMINS OSC 8.3	1	EA
600263	ALTERNATOR, 24V 140 A	1	EA
0779	= "BOLT HEX. HD. 5/8"-11 x 2"	4.00	EA
3060045	WASHER,HARDEND FLAT 5/8 X 1.75	8	EA
3042028	LOCNUT HEX 5/8-11	4	EA
A1***** *	***** ASSY 1 *****	0	EA
0102-8-4	REDUCER PIPE THREAD	1	EA
2102-8-8	ADAPTER	1	EA
01CP-4	ADAPTER	1	EA
3799-41	COUPLER, BRASS	2	EA
802250	HOSE,A/C SUCTION M2-14	1	EA
802251	HOSE,A/C PRESSURE M2-14	1	EA
802252	HOSE,A/C TO DRIER M2-14	1	EA
A2***** *	***** ASSY 2 *****	0	EA
500818	PUMP, GEAR 2.46 CU IN /REV	1	EA
2080685	ELBOW,45DEG -20 O-RING/FLARE	1	EA
A3***** *	***** ASSY 3 *****	0	EA
2080460	ELBOW,FLARE/O-RING MALE 10	1	EA
E*****	***** ELECTRICAL *****	0	EA
520036	CABLE,BATTERY 3/0 SIZE	2	FT
8866	LUG, BATTERY CABLE	2	EA

Cummins Tier 3 Engine

Stock code	Description	Qty	U/m
520311	HARNESS, CUMMINS TIER 3 ENGINE	1	EA
520319	HARNESS, OEM POWER TIER 3	1	EA
520036	CABLE,BATTERY 3/0 SIZE	3	FT
8866	LUG, BATTERY CABLE	2	EA
690220	DECAL, ENGINE DIAGNOSTICS	1	EA
5125472	SWITCH,NGR ROCKER (BASE)	1	EA
520036	CABLE,BATTERY 3/0 SIZE	6	FT
8866	LUG, BATTERY CABLE	2	EA
520032	CABLE,#4 GAUGE BATTERY	78	IN
8896	WIRE TERMINAL PANDUIT	1	EA
8889	LUG, PANDUIT	1	EA
F*****	***** FRAME ATTACH *****	0	EA
2775321	= "CPSCR HX .50-13 X 2"	6	EA
3042020	LOCNUT HEX 3/8-16	1	EA
1484-30	BOLT,HEX HD 12MM 1.75 X 25MM	1	EA
3060476	WASHER SAE .500	1	EA
M***** *	***** MISC *****	0	EA
680012	ANTIFREEZE,HEAVY DUTY	0	L
29300027	DECAL,ECM SHUTDOWN NOTICE	1	EA
10213818	SPLINE,ADAPTOR PUMP ENG CUMMIN	1	EA
96800024	ASSY,REMOTE DRAIN ENGINE OIL	1	EA
1606982	VALVE,BALL 3/4 NPT LOCKABLE	1	EA
1558644	PLUG,PIPE 3/4 SQHD	1	EA
44253960	HOSE,5/8 ID W/#12 FEM SWVL	1.00	EA
3875	HOSE CLAMP GEAR-TYPE	1.00	EA
1971550	= "ADPT,BULKHEAD-12 TO 3/4" NPT"	1	EA

FIGURE 8-1. Hydraulic Tank 170 Gallon

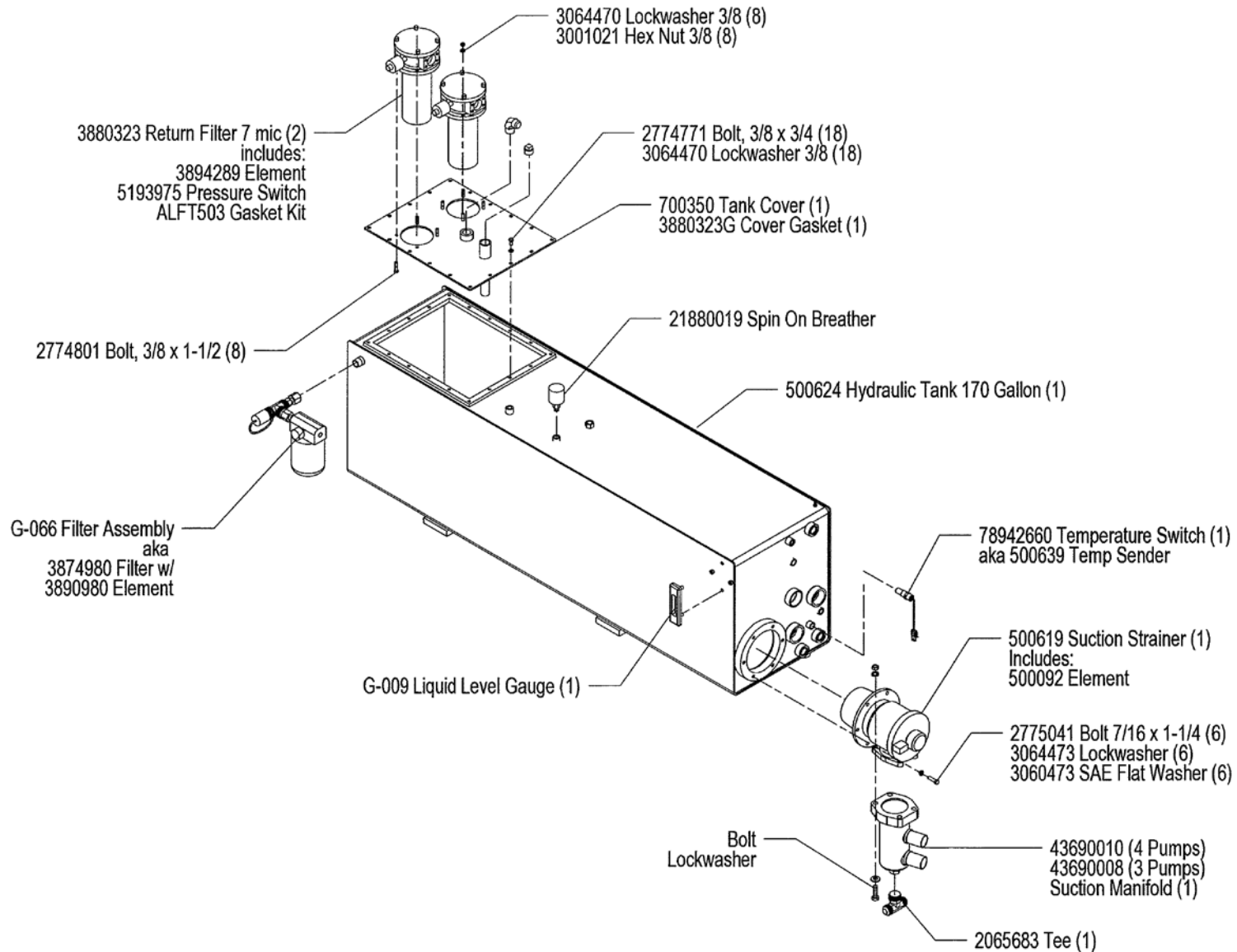
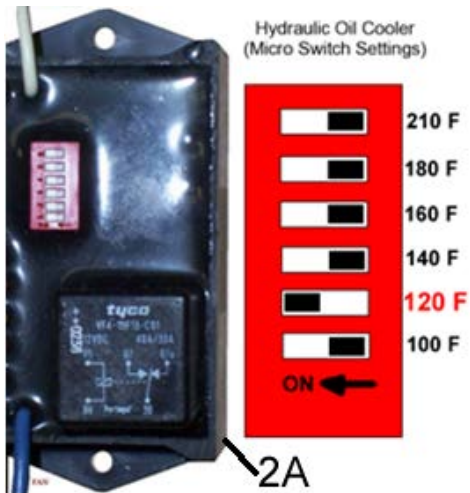
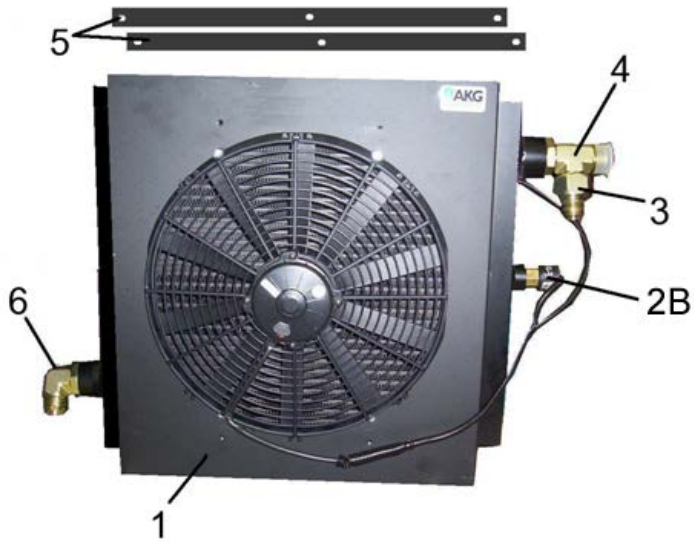


FIGURE 9-1. HYDRAULIC OIL COOLER S/N 800300 and Above



ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1	500385	Hydraulic Oil Cooler	1
--	500383	. . Cooler Core	1
--	500384	. . Cooler Fan.....	1
2	660121	Controller Kit.....	1
2A	96391051	. . Controller.....	1
2B	7022557	. . . Temperature Sensor	1
2C*	2076046	. . Adapter #8 to #6.....	1
3	0603-20-16	Reducing Adapter.....	1
4	053T-20-20	Tee Adapter	1
5	802337	Cooler Mount Flat.....	2
6	2503-20-20	90° Elbow	1
7*	802335	Removable Cooler Mount	1

Mounting hardware:

10	0339	3/8" x 2 Bolt	8
11	2735	3/8" SAE Washer	8
12	2762	3/8" Lockwasher.....	8
13	2506	3/8" Nut.....	8

**FIGURE 10-1. Fuel Tank
150 Gallon**

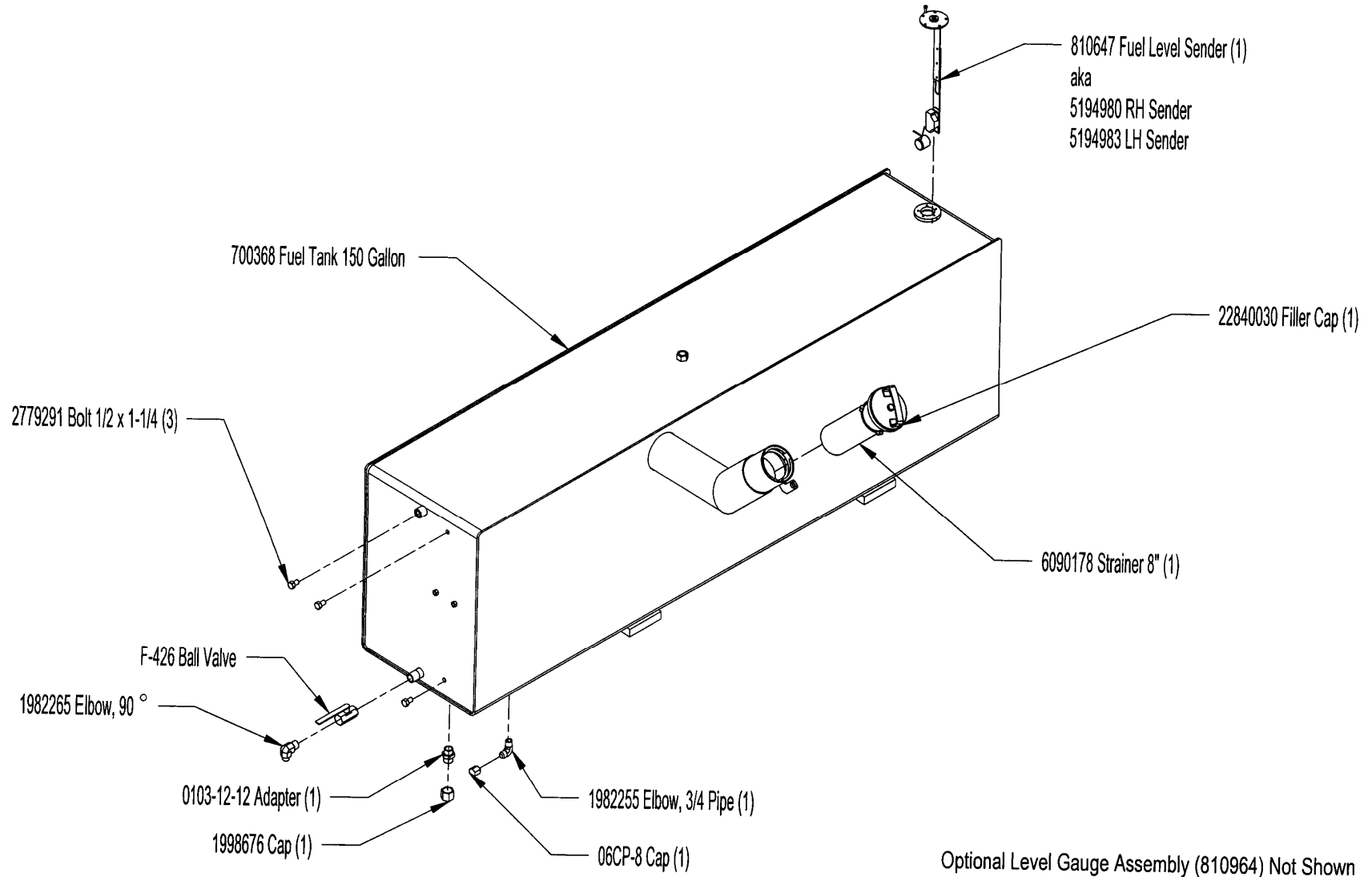


FIGURE 10-2. Fuel Tank Remote Drain (Option)

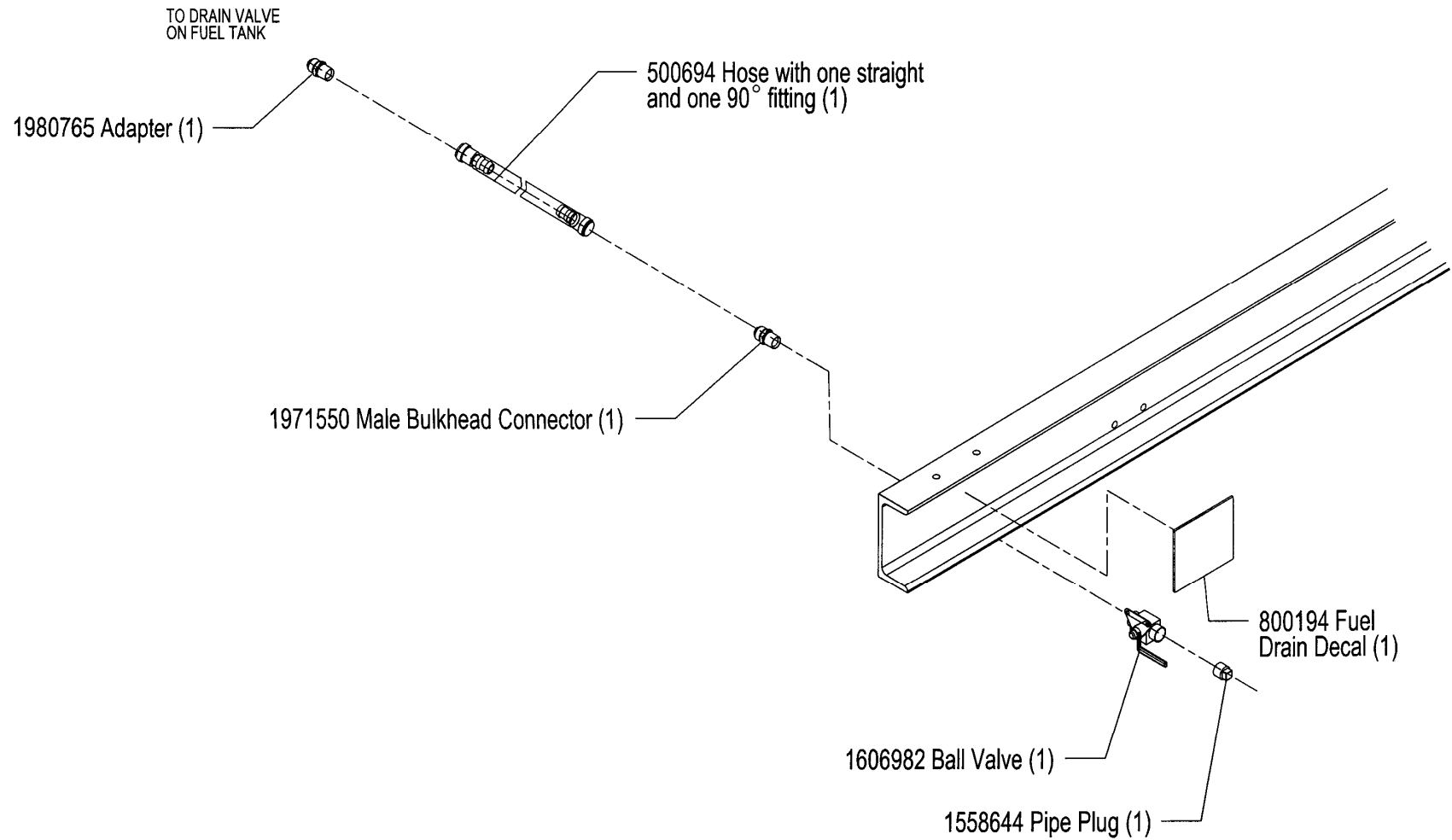


FIGURE 11-1. Front Plow Ballast Option

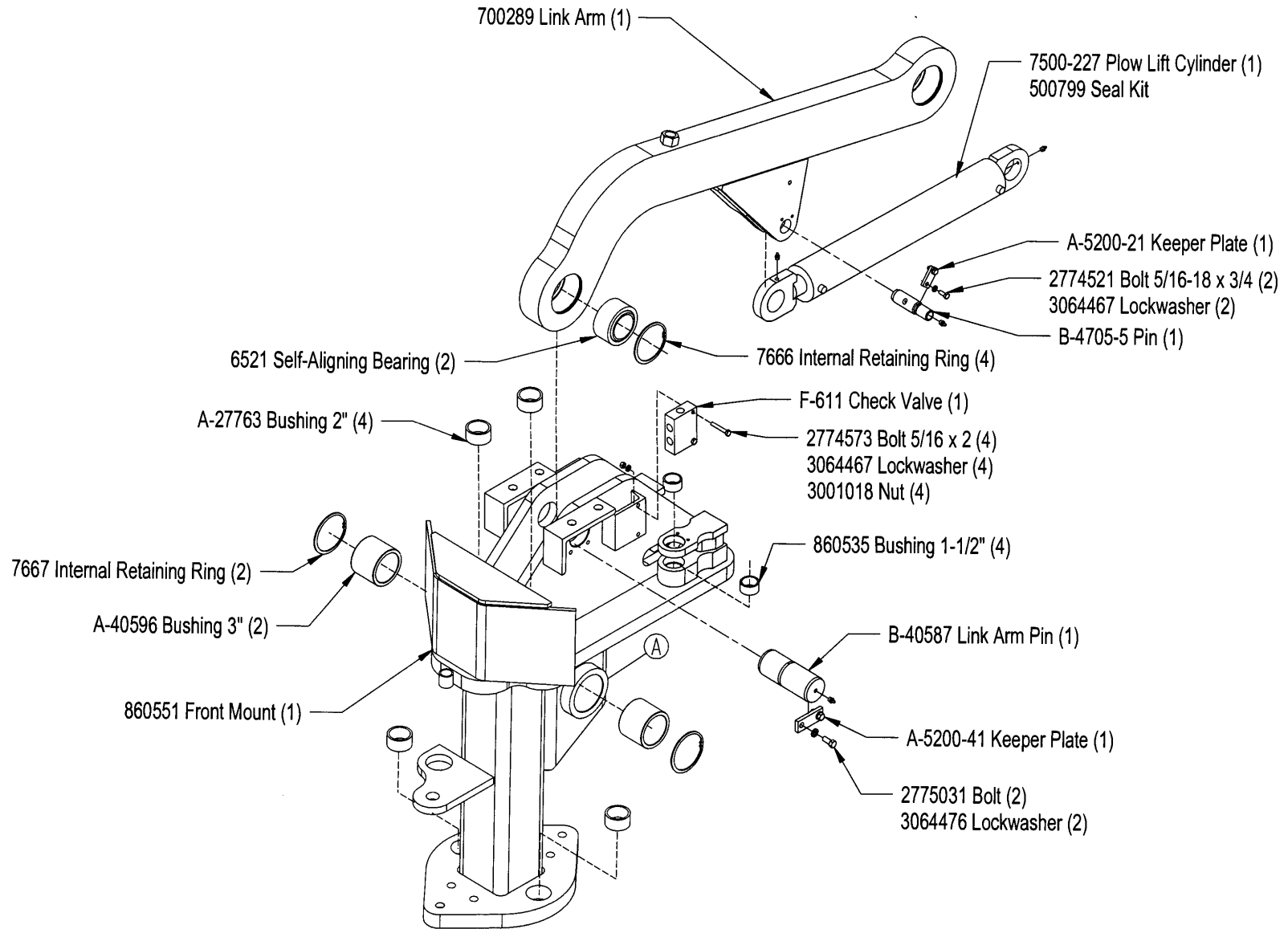


FIGURE 11-1. Front Plow Ballast Option

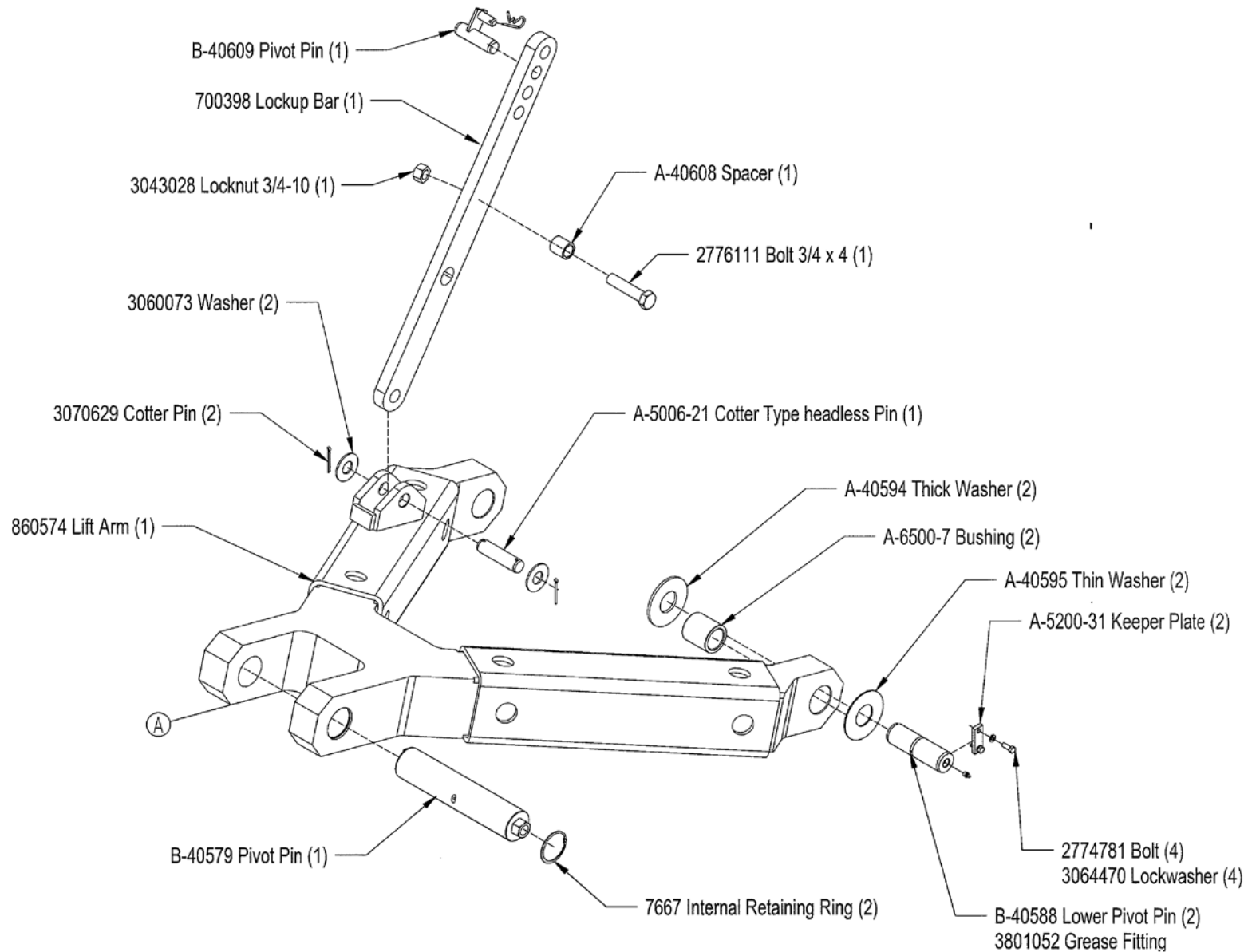


FIGURE 11-1. Front Plow Ballast Option

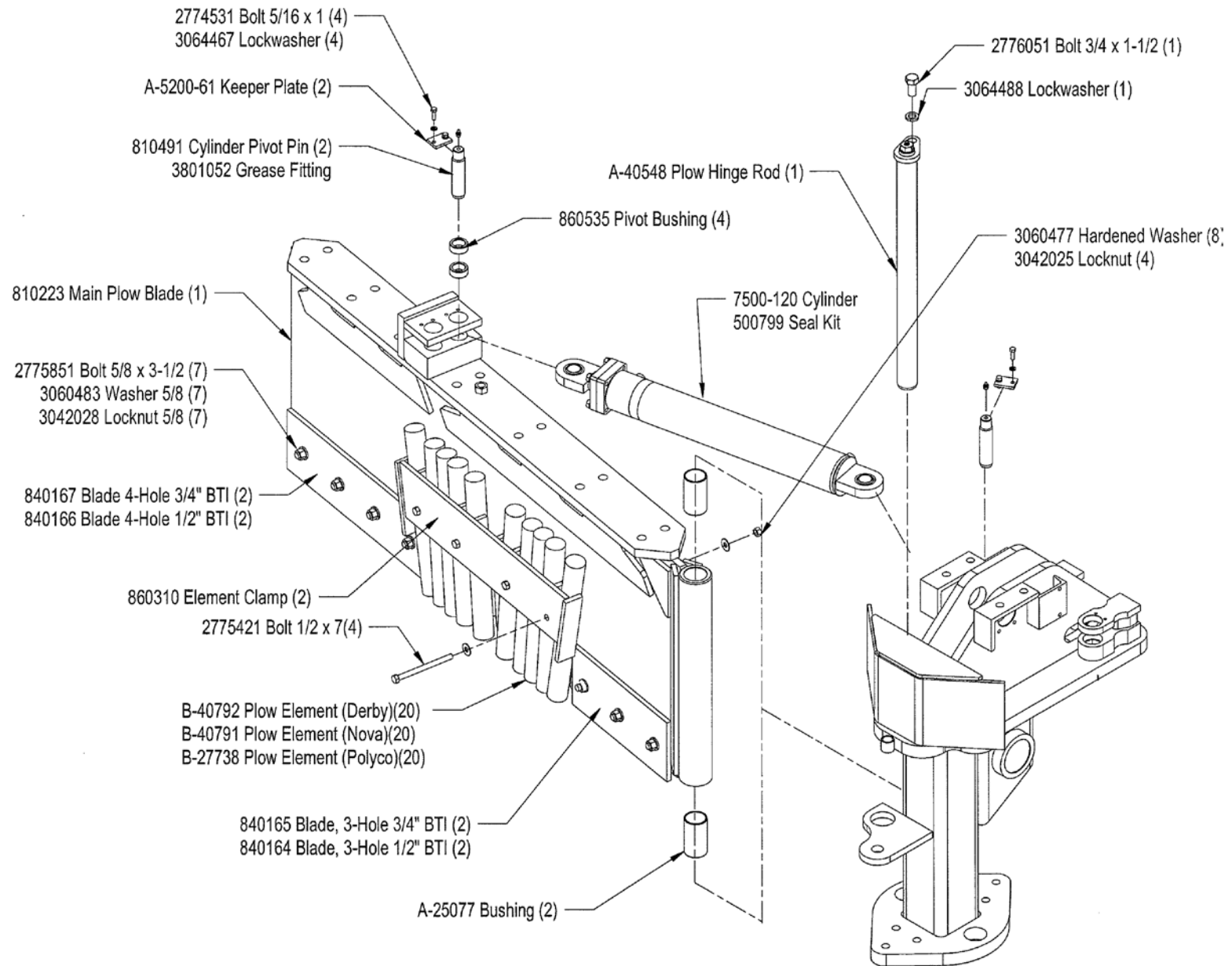
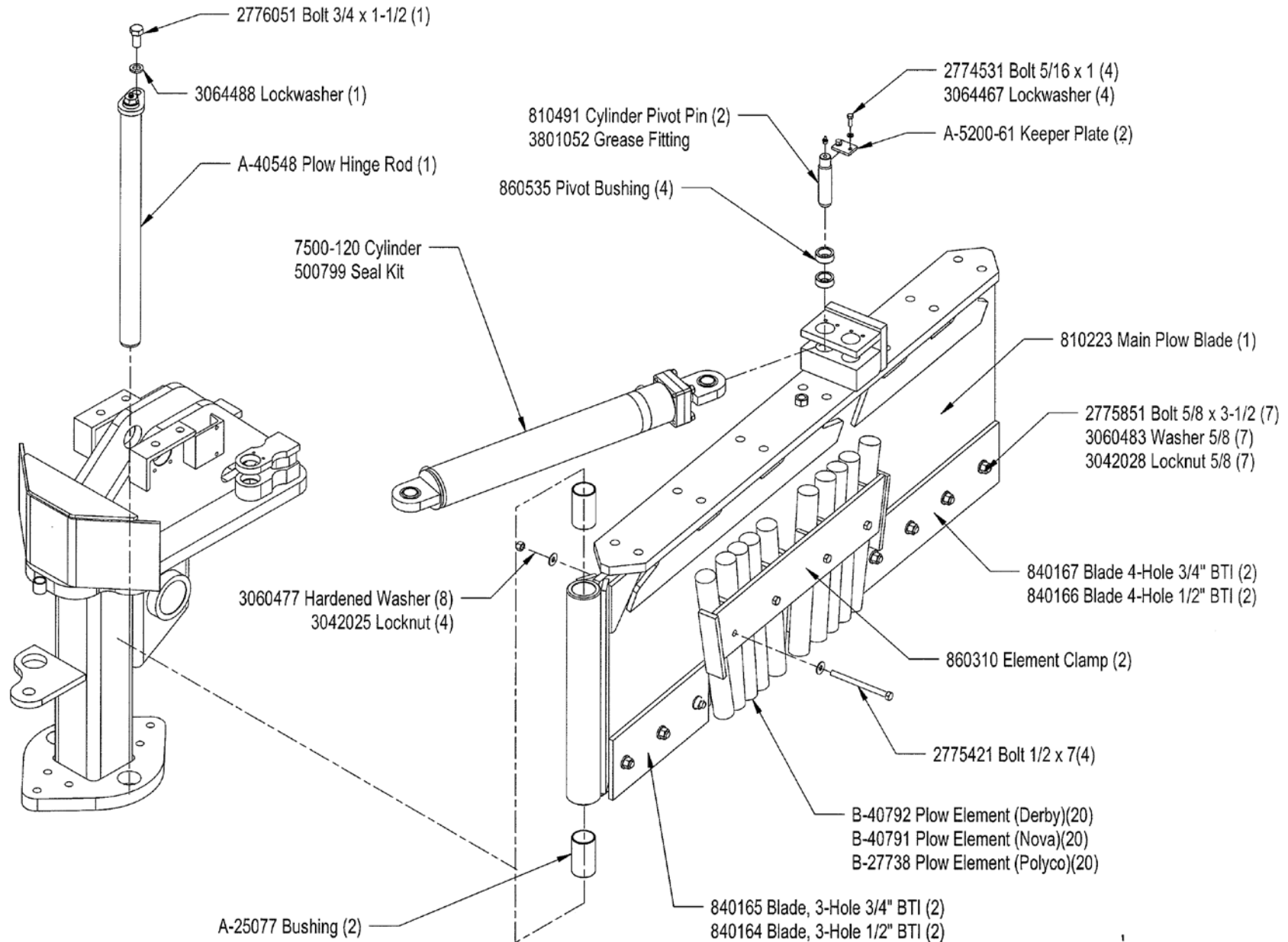


FIGURE 11-1. Front Plow Ballast Option



*Not Illustrated

FIGURE 11-1. Front Plow Ballast Option

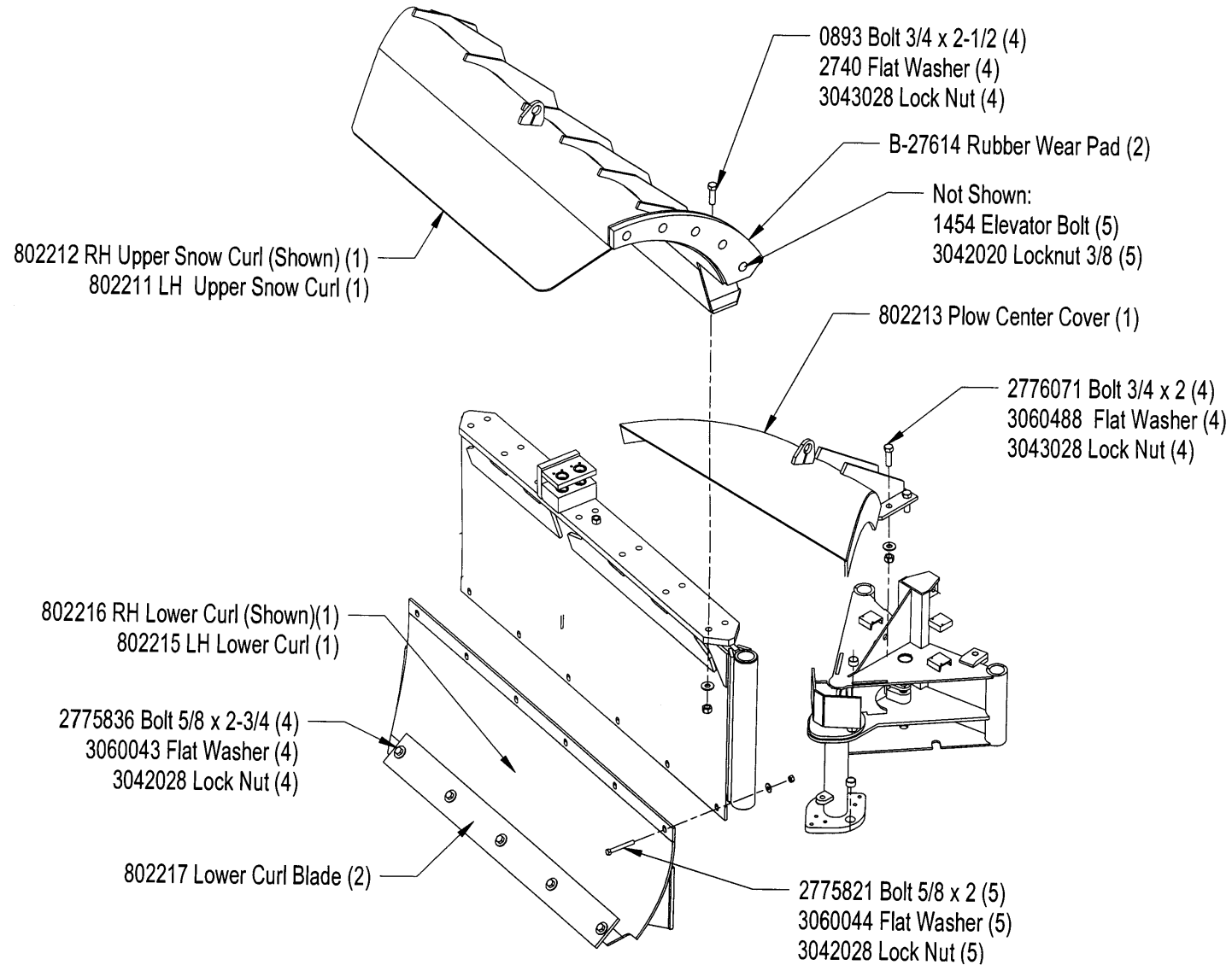


FIGURE 11-1. Front Plow Ballast Option

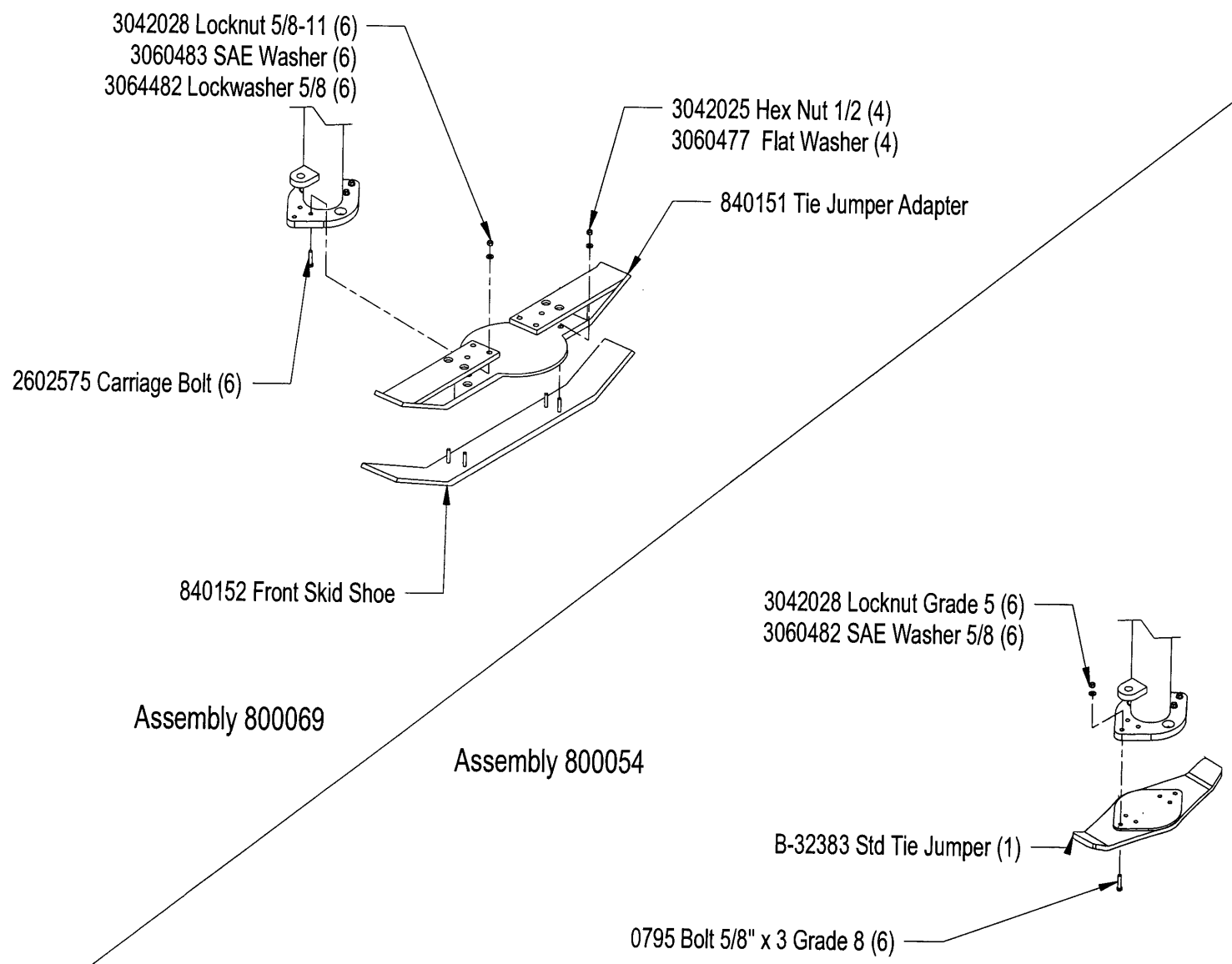


FIGURE 11-1. Front Plow Ballast Option

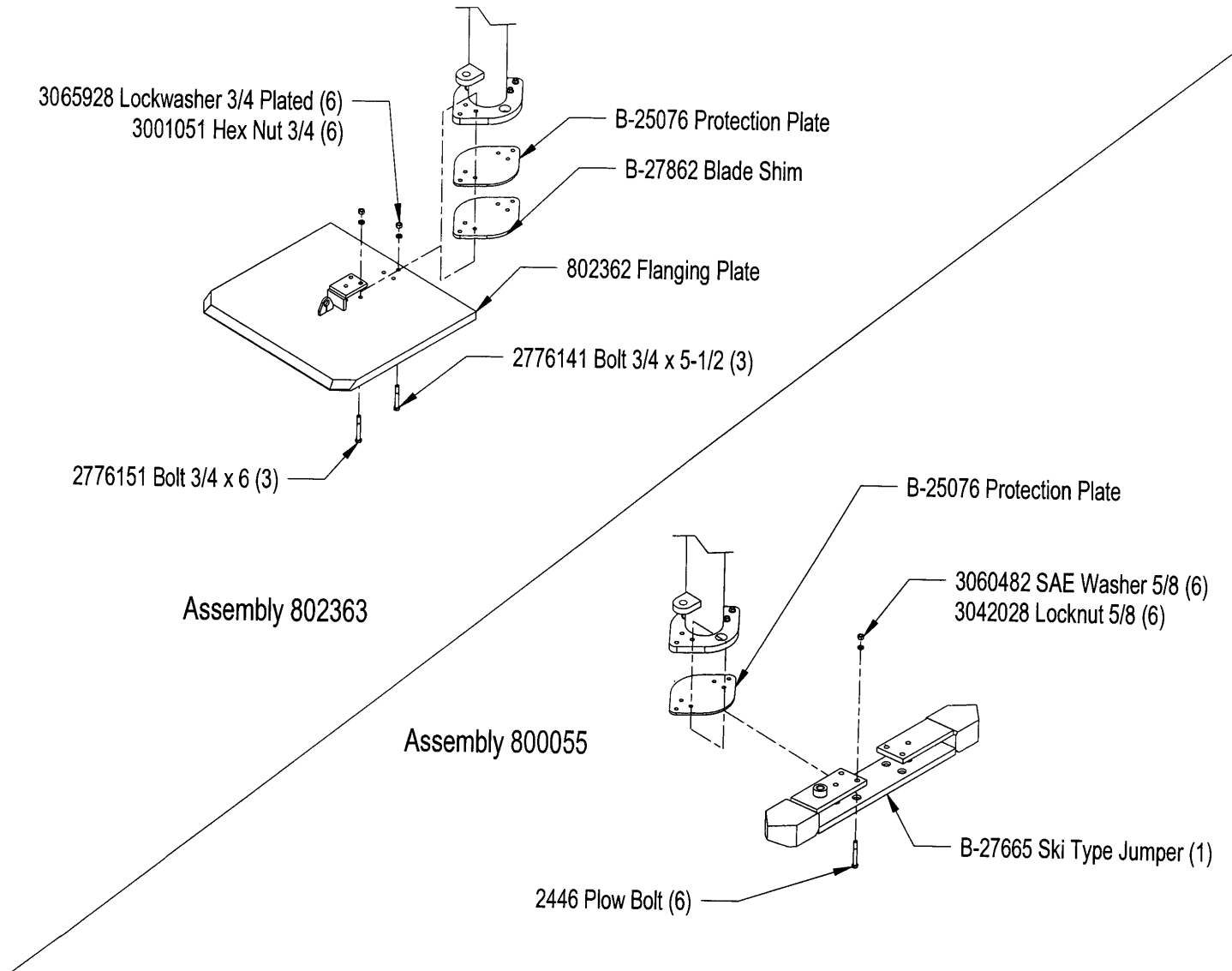
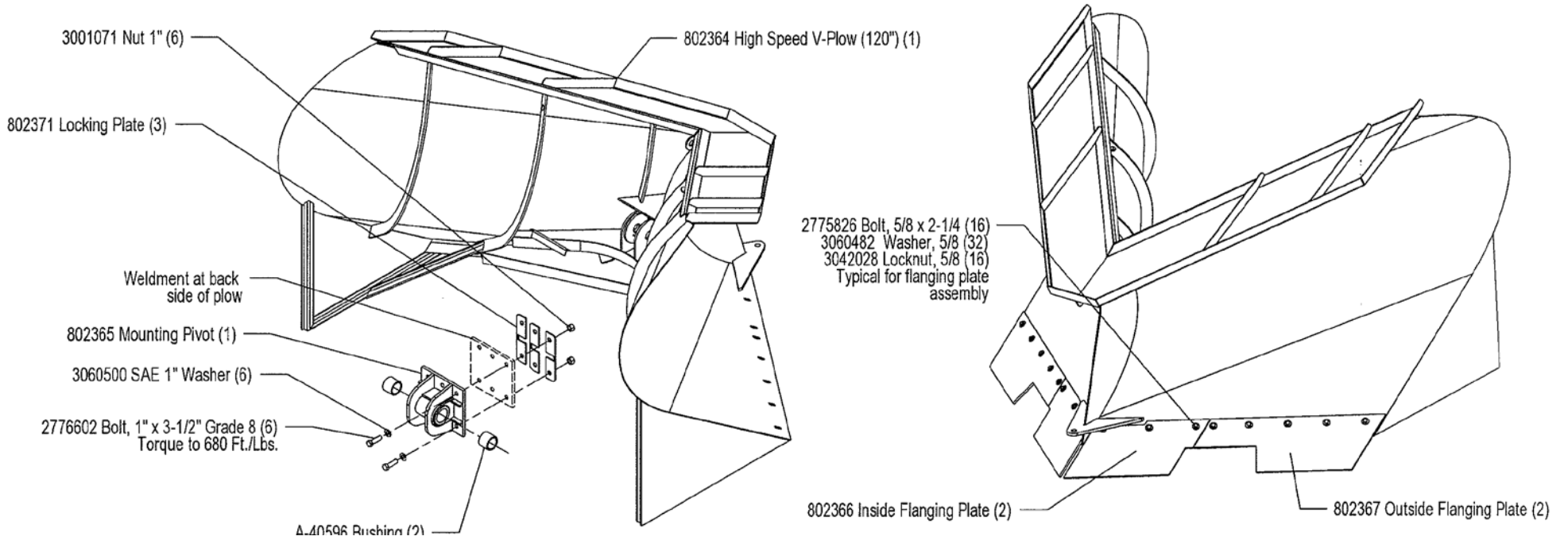
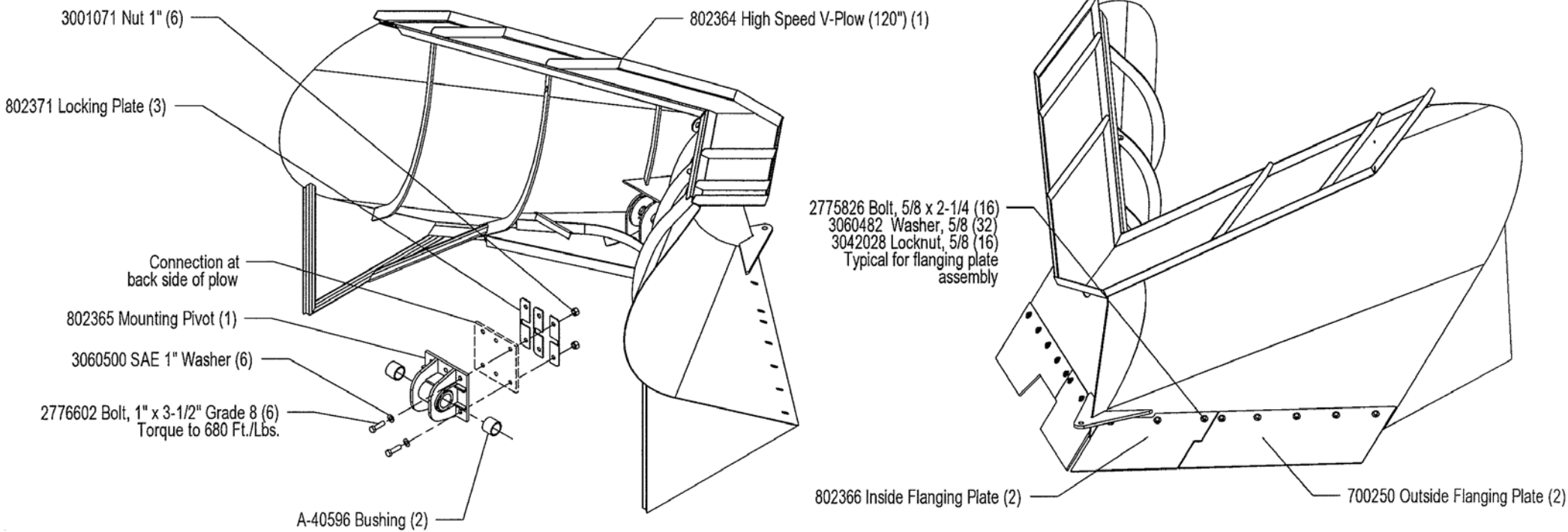


FIGURE 11-2. Front Plow High Speed V-Plow



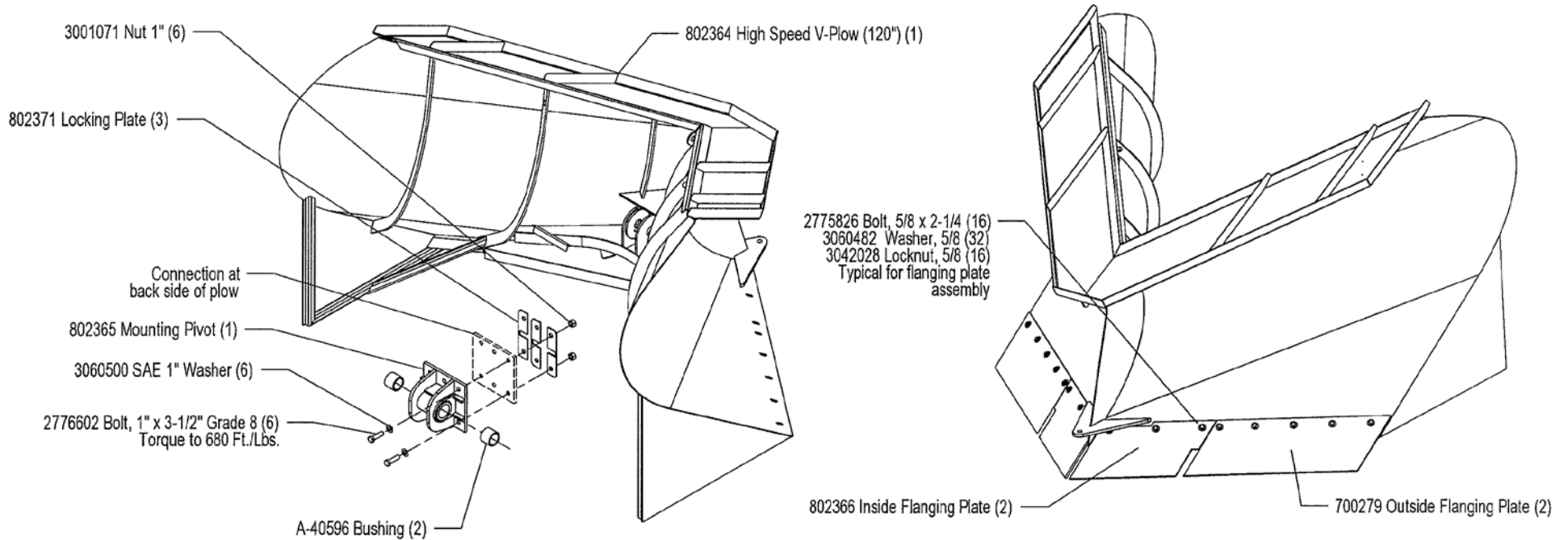
With Blade Cutouts (Standard)

**FIGURE 11-2. Front Plow
High Speed V-Plow**



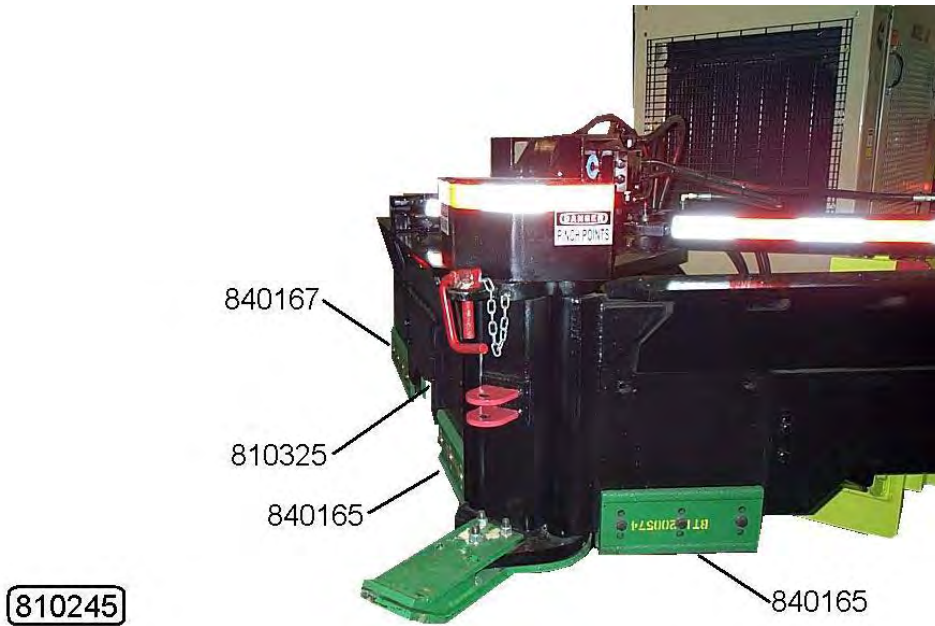
With Straight Outside Flanging (Option)

**FIGURE 11-2. Front Plow
High Speed V-Plow**

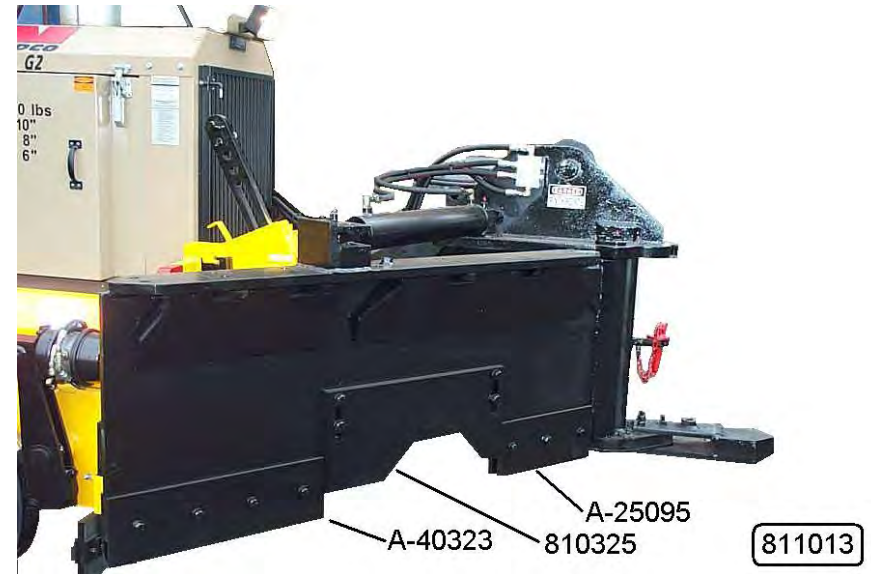


With Protective Outside Flanging (Option)

**FIGURE 11-2-3. FRONT PLOW
 Sliding Door Options**

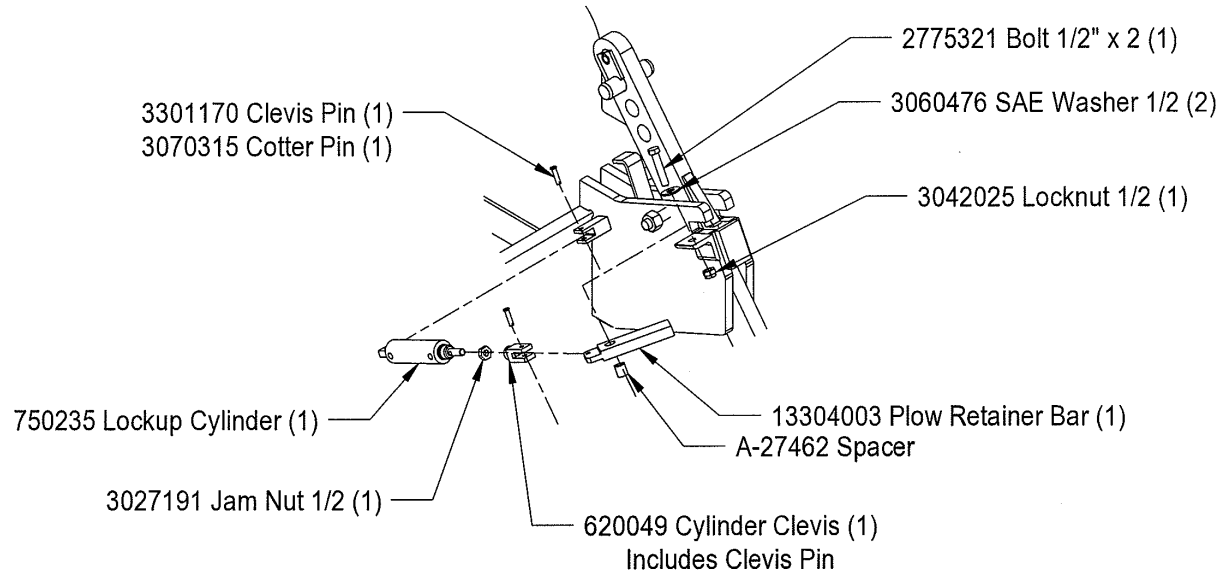


Sliding Door with BTI Blades



Sliding Door with Hard-Ox Blades

FIGURE 11-3. Front Plow PNEUMATIC LOCKUPS OPTION



OLD STYLE

FIGURE 12-1. Ballast Wing Rotational Wings

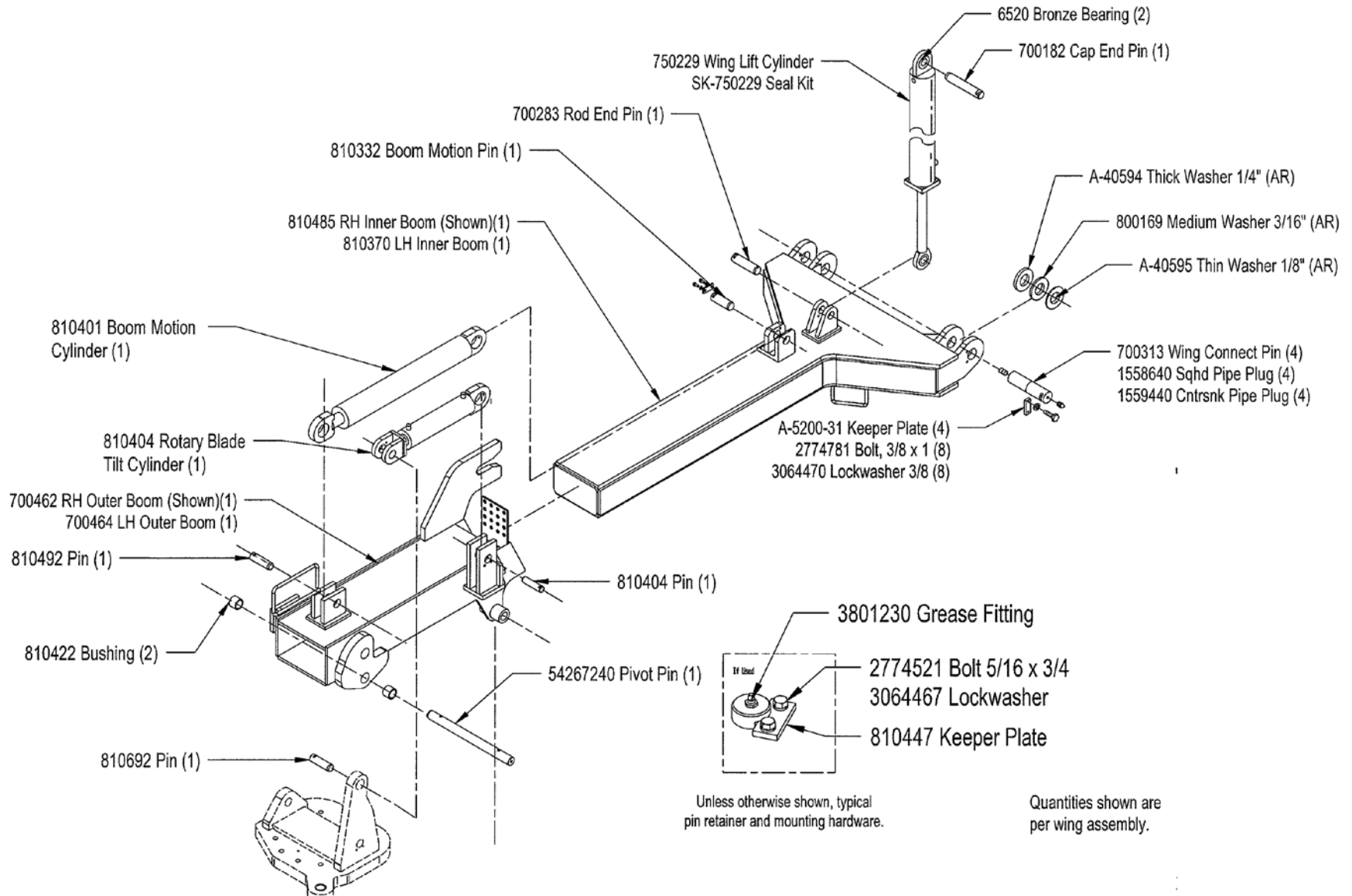


FIGURE 12-1. Ballast Wing Rotational Wings

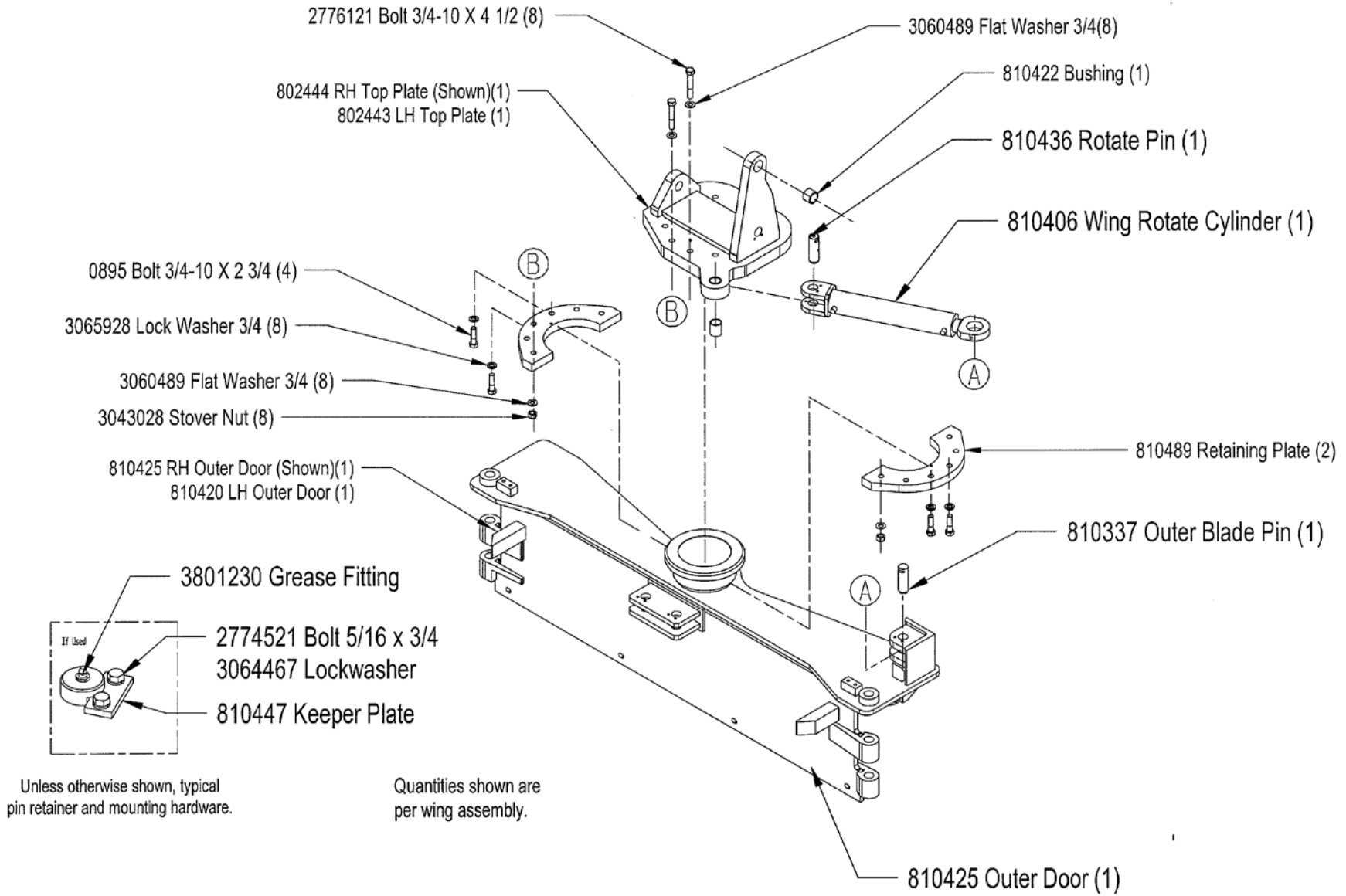


FIGURE 12-1. Ballast Wing Rotational Wings

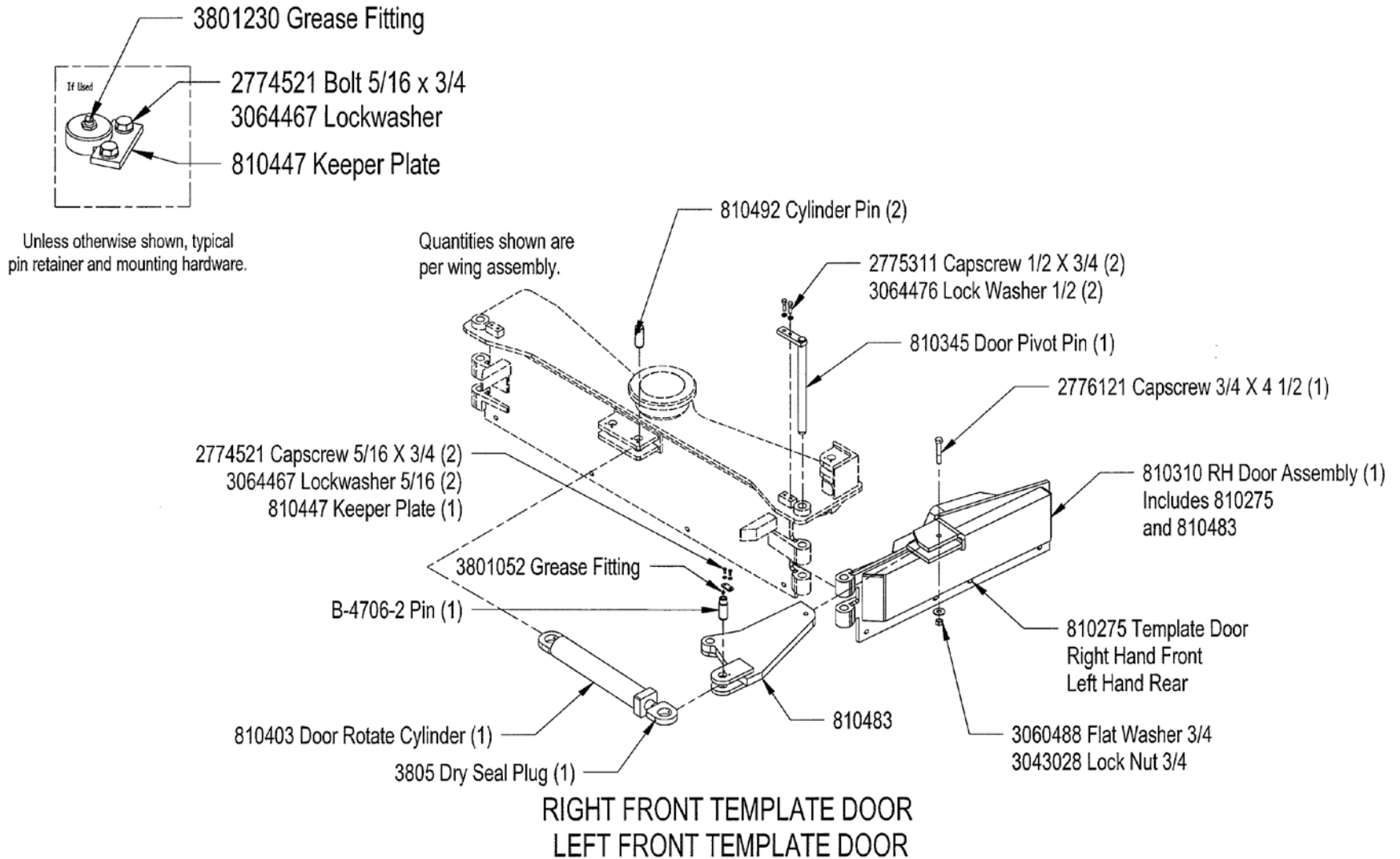
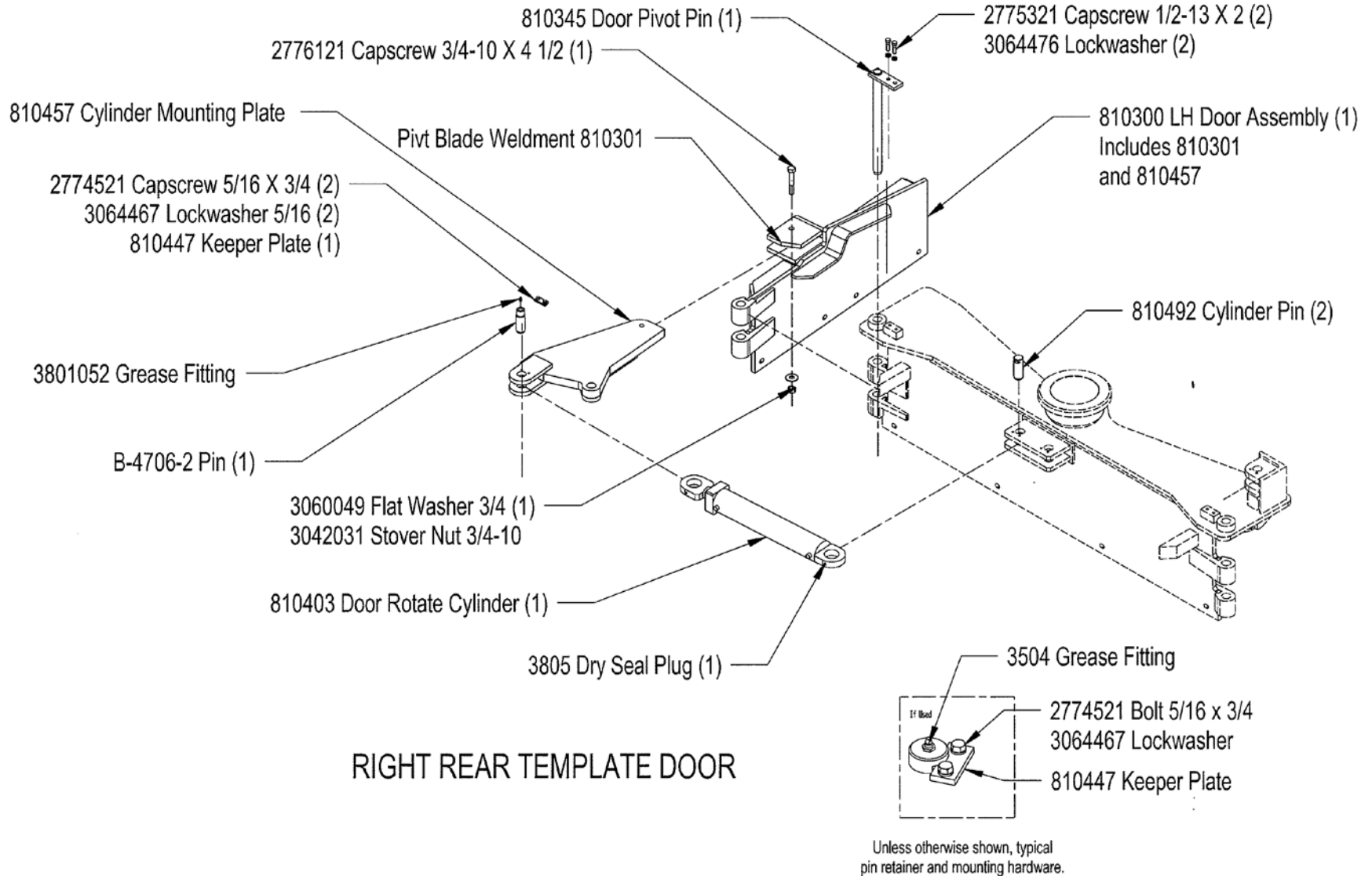
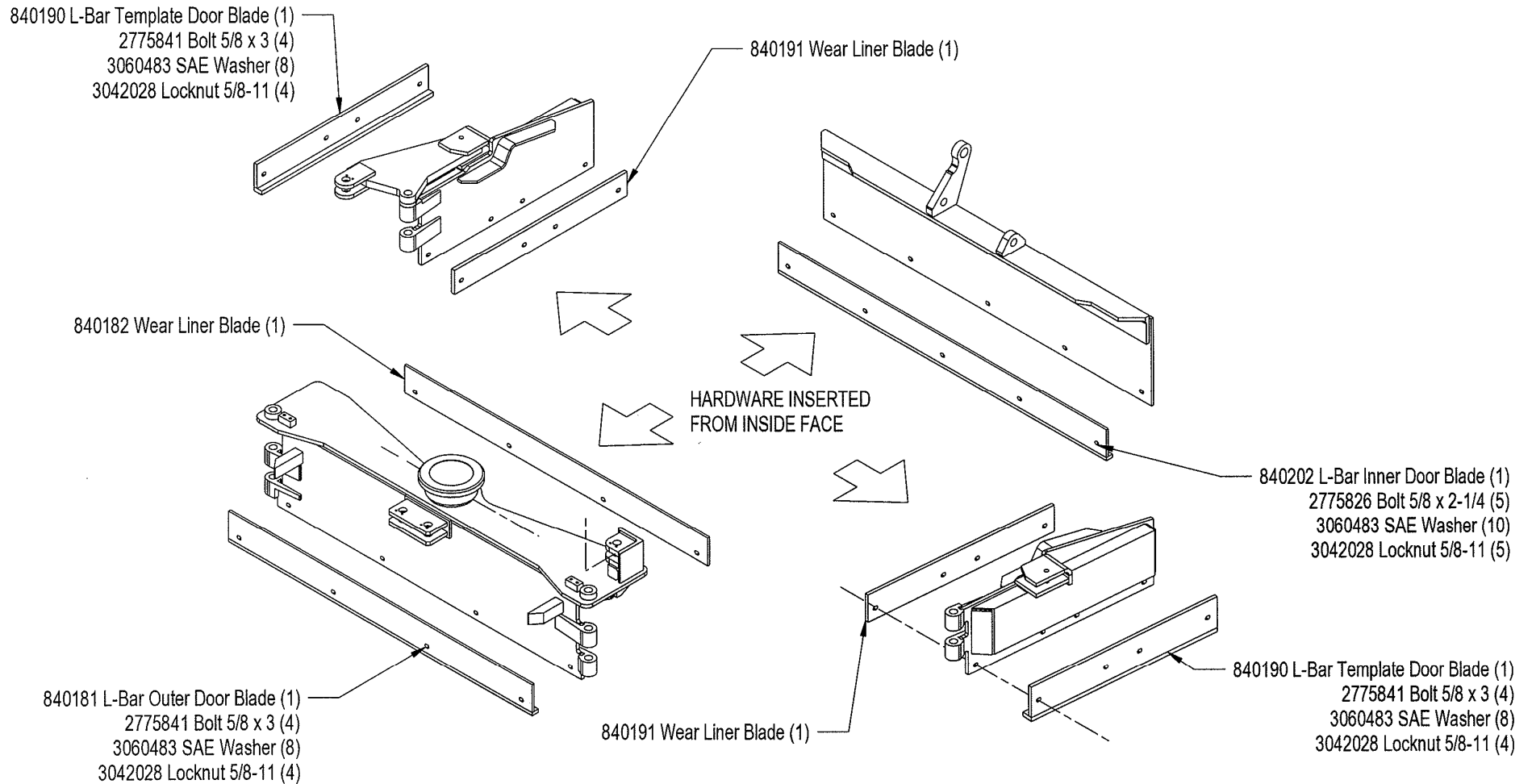


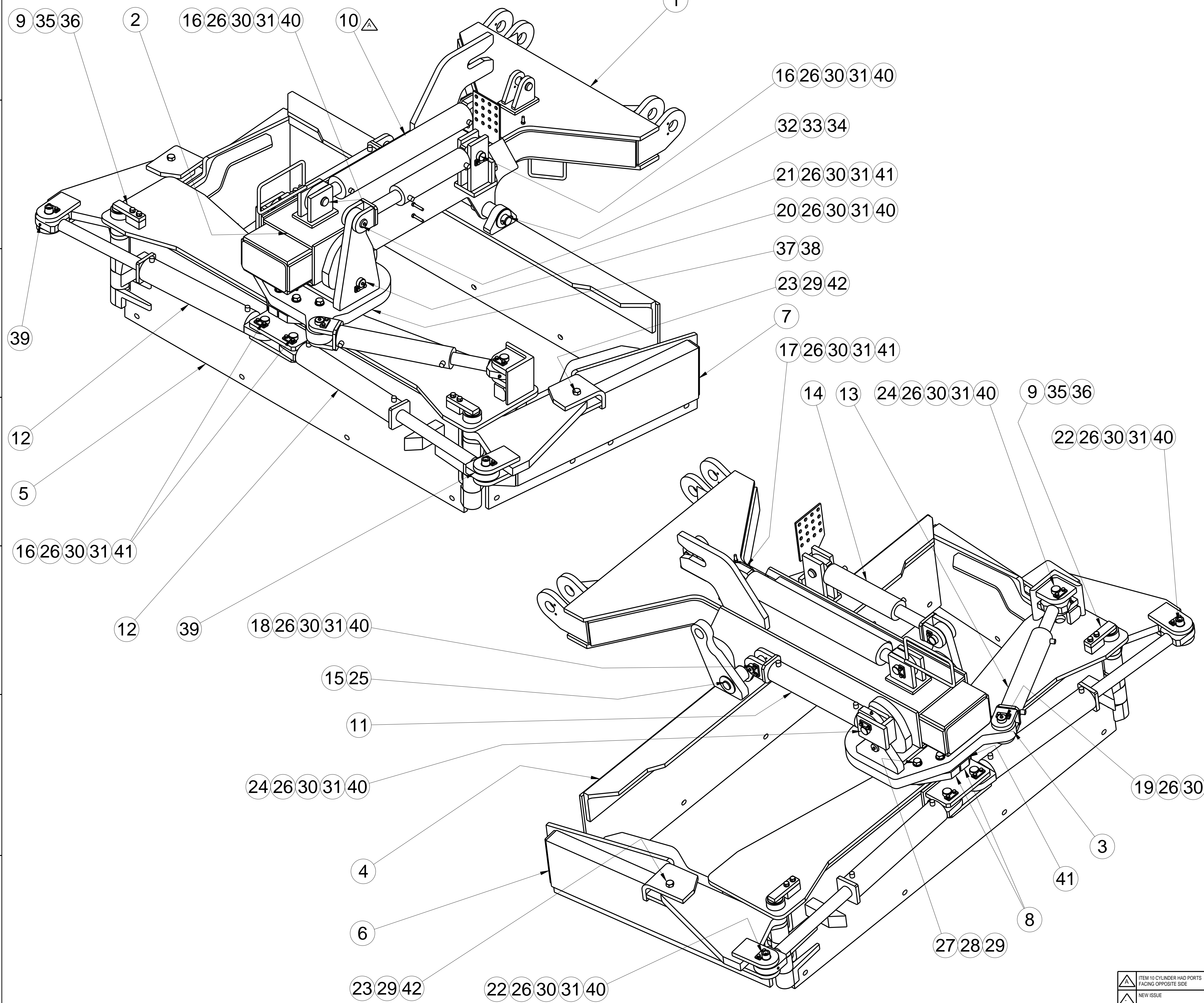
FIGURE 12-1. Ballast Wing Rotational Wings



**FIGURE 12-2. Ballast Wing
Rotational Wings
Grader Blades**



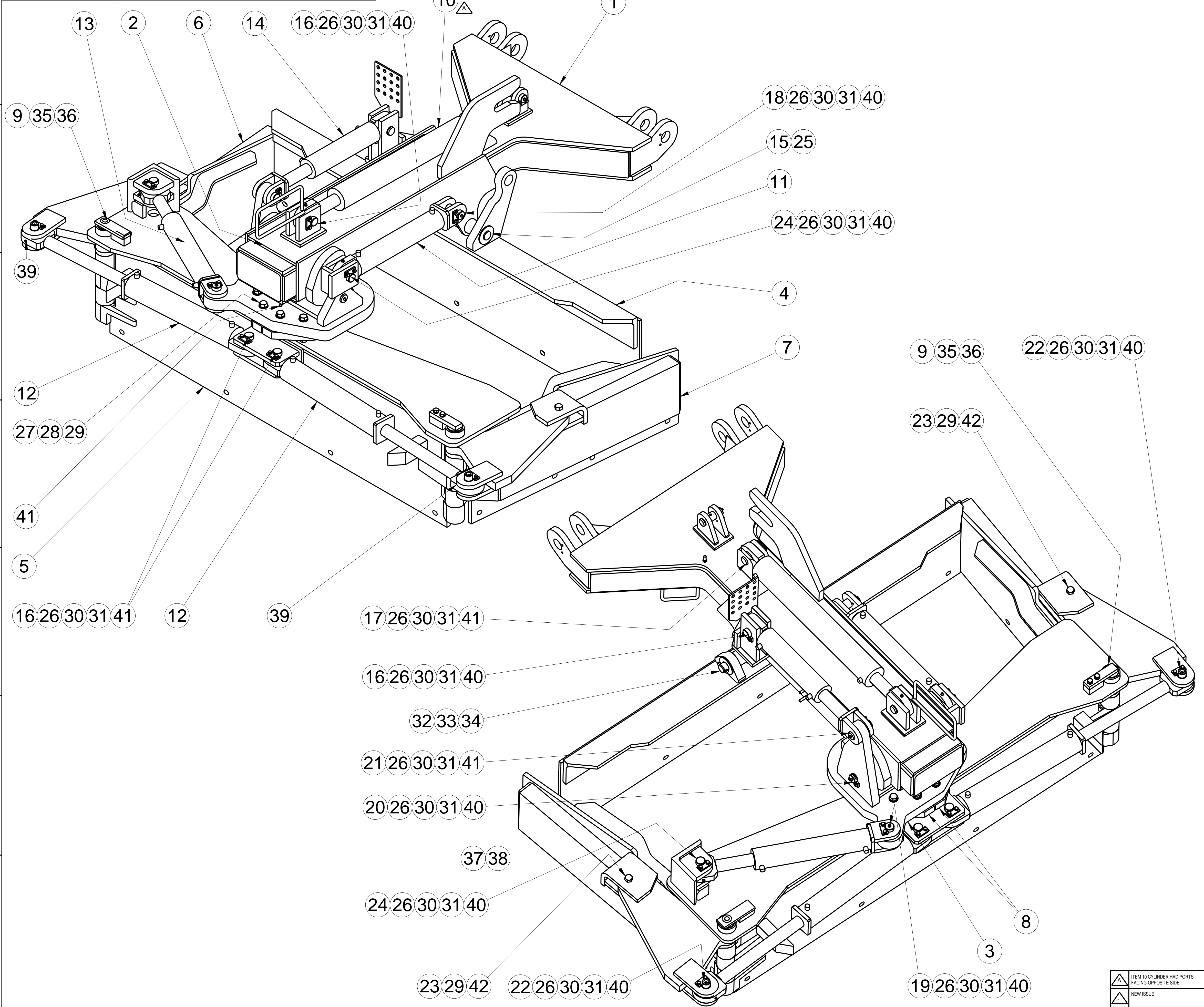
BTI GRADER BLADES



BILL OF MATERIALS					
ITEM NO.	PART NUMBER OR MATERIAL	QTY. REQ.	U. OF M.	PART NAME	DWG. SIZE
1	810485	1		BOOM, RH INNER WELD'T	
2	700462	1		BOOM, RH OUTER WELD'T	
3	802444	1		PLATE, TOP WELD'T RH	
4	810416	1		INNER DOOR RH	
5	810425	1		DOOR, OUTER WELD'T RH	
6	810300	1		STANDARD PIVOT BLADE LH	
7	810310	1		STANDARD PIVOT BLADE RH	
8	810489	2		RETAINING PLATE	
9	810345	2		ASSY, PIN TEMPLATE DOOR	
10	810401	1		CYLINDER, BOOM MOTION	
11	810400	1		CYLINDER, DOOR TILT	
12	810403	2		CYLINDER, TEMPLATE DOOR ROTARY	
13	810406	1		CYLINDER, ROTARY BLADE	
14	810404	1		CYLINDER, ROTARY BLADE TILT	
15	810336	1		PIN, OUTER BOOM & INNER DOOR	
16	810492	4		PIN, 1.5 x 4.0	
17	810332	1		PIN, BOOM MOTION	
18	810491	1		PIN, TILT	
19	810436	1		PIN, ROTATE BLADE	
20	810334	1		PIN, TOP PLATE & OUTER BOOM	
21	810692	1		PIN, OUTER DOOR TILT CYLINDER	
22	B-4706-2	2		PIN	
23	620011	2		BOLT, HEX HD 3/4 UNC x 4-1/2 GR 2	
24	810337	2		PIN, OUTER BLADE ROTARY	
25	700076	1		PIPE, BLACK 1-1/2 SCH 40 x 12-1/8	
26	810447	13		KEEPER PLATE CC 1.5	
27	2776121	8		BOLT, HEX HD 3/4-10 x 4-1/2	
28	2755-3	16		WASHER, FLAT 3/4 ALLOY	
29	3043028	10		NUT, STOVER 3/4-10	
30	2774521	26		BOLT, HEX HD 5/16-18 x 3/4	
31	3064467	26		WASHER, LOCK 5/16 SAE	
32	2774821	1		BOLT, HEX HD 3/8-16 x 2	
33	3042020	1		NUT, STOVER 3/8-16	
34	2721	1		WASHER, FLAT 1-1/2 BS	
35	2775311	4		BOLT, HEX HD 1/2-13 x 1-3/4	
36	3064476	4		WASHER, LOCK 1/2 SAE	
37	0895	4		BOLT, HEX HD 3/4-10 x 2-3/4	
38	2768	4		WASHER, LOCK 3/4 SAE	
39	3505	2		PLUG, DRYSEAL 1/8	
40	3801052	9		FITTING, GREASE 1/8 STRAIGHT	
41	3014	8		FITTING, GREASE 90 DEG	
42	2710	2		WASHER, FLAT 3/4 BS	

NOTE
APPLY SYNTHETIC GEAR GREASE WHEN ASSEMBLING INNER AND OUTER BOOMS

CUSTOMARY: ALL DIMENSIONS IN INCHES				THIRD ANGLE PROJECTION	
IMPLIED TOLERANCES: FRACTION ± 1/8 .X ± .06 .XX ± .03 .XXX ± .010		DESCRIPTION: WING, RH ROTATIONAL BALLAST W/STD TEMPLATE DOORS			
SWA 12-03-10 CP 31-JUL-07		JW 08-03-07 MK 12-19-07		600341 -	
DRAWN BY: SWA CHECKED BY: CP DATE: 12-03-10 APPROVED BY: MK		DATE: 08-03-07 DATE: 12-19-07		E.C.O.# -	
INCHES FRACTIONAL DECIMALS 1/8 1/16 1/32 1/64		PLANE ANGLES ± .1°		SCALE: D 1/8 DRAWING CODE NUMBER: 700465 REV: A	
ASSEMBLY:				SHEET 1 OF 1	

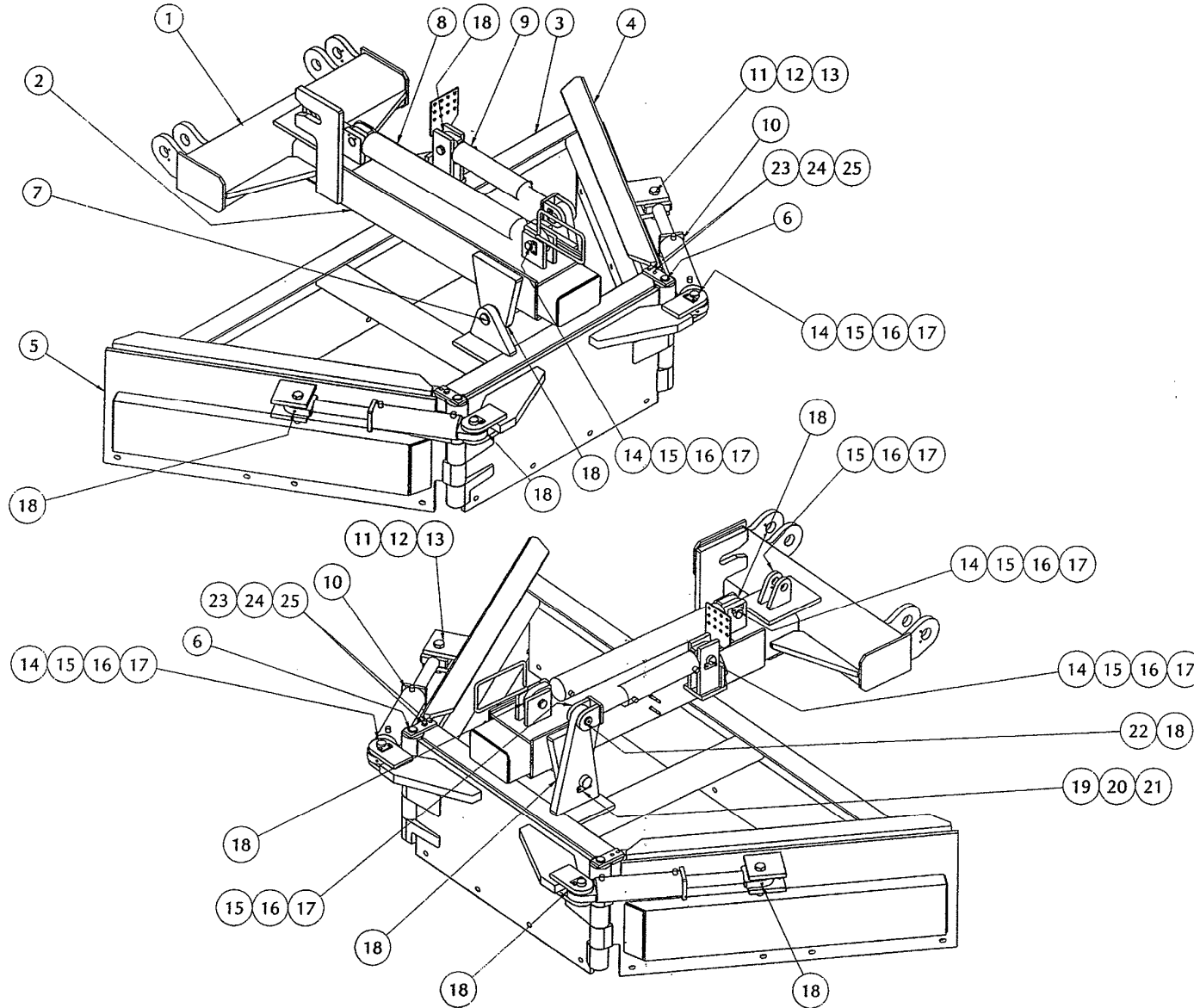


BILL OF MATERIALS					
ITEM NO.	PART NUMBER OR MATERIAL	QTY. REQ.	U. OF MEAS.	PART NAME	DWG. SIZE
1	810370	1		BOOM, LH INNER WELD'T	
2	700464	1		BOOM, LH OUTER WELD'T	
3	802443	1		PLATE, TOP WELD'T LH	
4	810365	1		INNER DOOR LH	
5	810420	1		DOOR, OUTER WELD'T LH	
6	810300	1		STANDARD PIVOT BLADE LH	
7	810310	1		STANDARD PIVOT BLADE RH	
8	810489	2		RETAINING PLATE	
9	810345	2		ASSY, PIN TEMPLATE DOOR	
10	810401	1		CYLINDER, BOOM MOTION	
11	810400	1		CYLINDER, DOOR TILT	
12	810403	2		CYLINDER, TEMPLATE DOOR ROTARY	
13	810406	1		CYLINDER, ROTARY BLADE	
14	810404	1		CYLINDER, ROTARY BLADE TILT	
15	810336	1		PIN, OUTER BOOM & INNER DOOR	
16	810492	4		PIN, 1.5 x 4.0	
17	810332	1		PIN, BOOM MOTION	
18	810491	1		PIN, TILT	
19	810436	1		PIN, ROTATE BLADE	
20	810334	1		PIN, TOP PLATE & OUTER BOOM	
21	810692	1		PIN, OUTER DOOR TILT CYLINDER	
22	B-4706-2	2		PIN	
23	620011	2		BOLT, HEX HD 3/4 UNC x 4-1/2 GR 2	
24	810337	2		PIN, OUTER BLADE ROTARY	
25	700076	1		PIPE, BLACK 1-1/2 SCH 40 x 12-1/8	
26	810447	13		KEEPER PLATE CC 1.5	
27	2776121	8		BOLT, HEX HD 3/4-10 x 4-1/2	
28	2755-3	16		WASHER, FLAT 3/4 ALLOY	
29	3043028	10		NUT, STOVER 3/4-10	
30	2774521	26		BOLT, HEX HD 5/16-18 x 3/4	
31	3064467	26		WASHER, LOCK 5/16 SAE	
32	2774821	1		BOLT, HEX HD 3/8-16 x 2	
33	3042020	1		NUT, STOVER 3/8-16	
34	2721	1		WASHER, FLAT 1-1/2 BS	
35	2775311	4		BOLT, HEX HD 1/2-13 x 1-3/4	
36	3064476	4		WASHER, LOCK 1/2 SAE	
37	0895	4		BOLT, HEX HD 3/4-10 x 2-3/4	
38	2768	4		WASHER, LOCK 3/4 SAE	
39	3505	2		PLUG, DRYSEAL 1/8	
40	3801052	9		FITTING, GREASE 1/8 STRAIGHT	
41	3014	8		FITTING, GREASE 90 DEG	
42	2710	2		WASHER, FLAT 3/4 BS	

NOTE
APPLY SYNTHETIC GEAR GREASE WHEN ASSEMBLING INNER AND OUTER BOOMS

CUSTOMARY: ALL DIMENSIONS IN INCHES				THIRD ANGLE PROJECTION	
IMPLIED TOLERANCES: FRACTION ± 1/8 .X ± .06 .XX ± .03 .XXX ± .010		DESCRIPTION: WING, LH ROTATIONAL BALLAST W/STD TEMPLATE DOORS			
PRODUCT: M7		SIZE: D	SCALE: 1/8	DRAWING CODE NUMBER: 700466	REV: A
ITEM 10 CYLINDER HAD PORTS FACING OPPOSITE SIDE		SWA 12-22-10	600341		
NEW ISSUE		CP 02-AUG-07	JW 08-03-07 MK 12-19-07		
DRAWN BY: DATE:		CHECKED BY: DATE:	E.C.O.#	PLANE ANGLES ±.1°	
		ASSEMBLY:		SHEET 1 OF 1	

FIGURE 12-3A Ballast Wing Assembly Right Hand

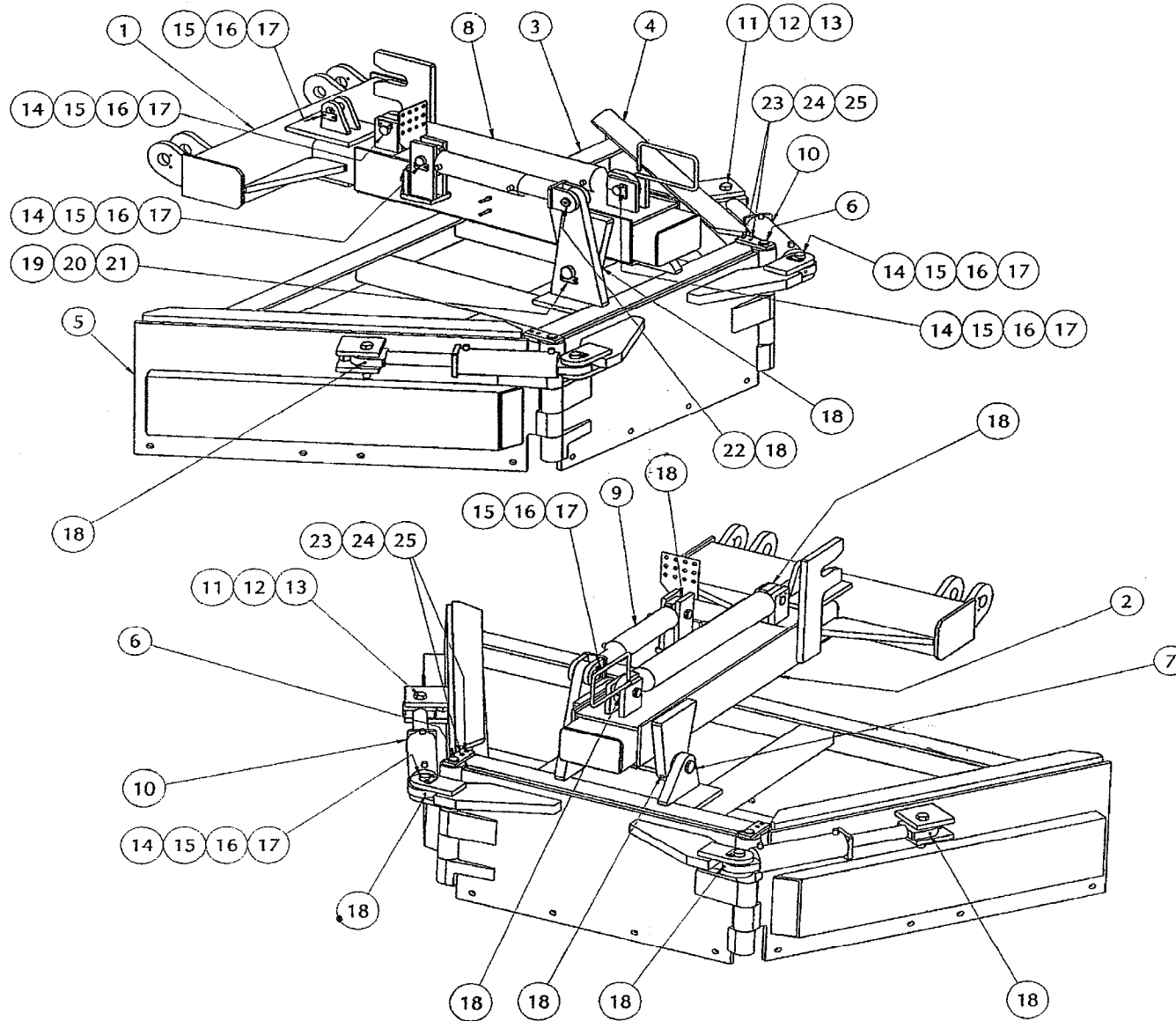


- NOTES:
1. APPLY SYNTHETIC GEAR GREASE PRIOR TO ASSEMBLING INNER AND OUTER BOOMS
 2. ALL CYLINDERS MUST BE CAPPED
 3. ALL PIN TO BE GREASED

FIGURE 12-3A Ballast Wing Assembly Right Hand

ITEM PART NO.	NO.	DESCRIPTION	UNITS PER ASSEMBLUY
1	700298	Weldment, Inner Boom	1
2	700299	Weldment, Outer Boom RH	1
3	700301	Weldment, Ballast Wing RH.....	1
4	700304	Door, Std Template RHF/LH	1
5	700307	Door, Std Template RHR/LHF	1
6	700310	Pin, Template Door.....	2
7	700312	Pin, Tilt Wing	1
8	750239	Cylinders, Boom Motion	1
9	750237	Cylinder, Ballast Wing Tilt	1
10	750238	Cylinder, Template Door Rotate	2
11	1154	Bolt, Hex Hd 1-8 UNC X 5" Gr. 2	2
12	2520	Nut, 1" UN.....	2
13	2771	Washer Lock 1"	2
14	810332	Pin, 1.5 X 4.13	5
15	810447	Keep Plate CC 1.5	7
16	0187	Bolt Hex Hd 5/16"-18 X 3/4	14
17	2761	Washer Lock 5/16	14
18	3004	Fitting, Grease 1/8	10
19	A-5200-31	Plate, Keeper CC 2.0	1
20	0323	Bolt Hex, Hd 3/8-16 UNC X 1.....	2
21	2762	Washer Lock 3/8	2
22	810692	Pin, Outer Door Tilt Cylinder	1
23	0565	Bolt Hex Hd 1/2"-13 X 2	4
24	2664	Nut, Stover 1/2-13	4
25	2764	Washer Lock 1/2	4

FIGURE 12-3B Ballast Wing Assembly Left Hand

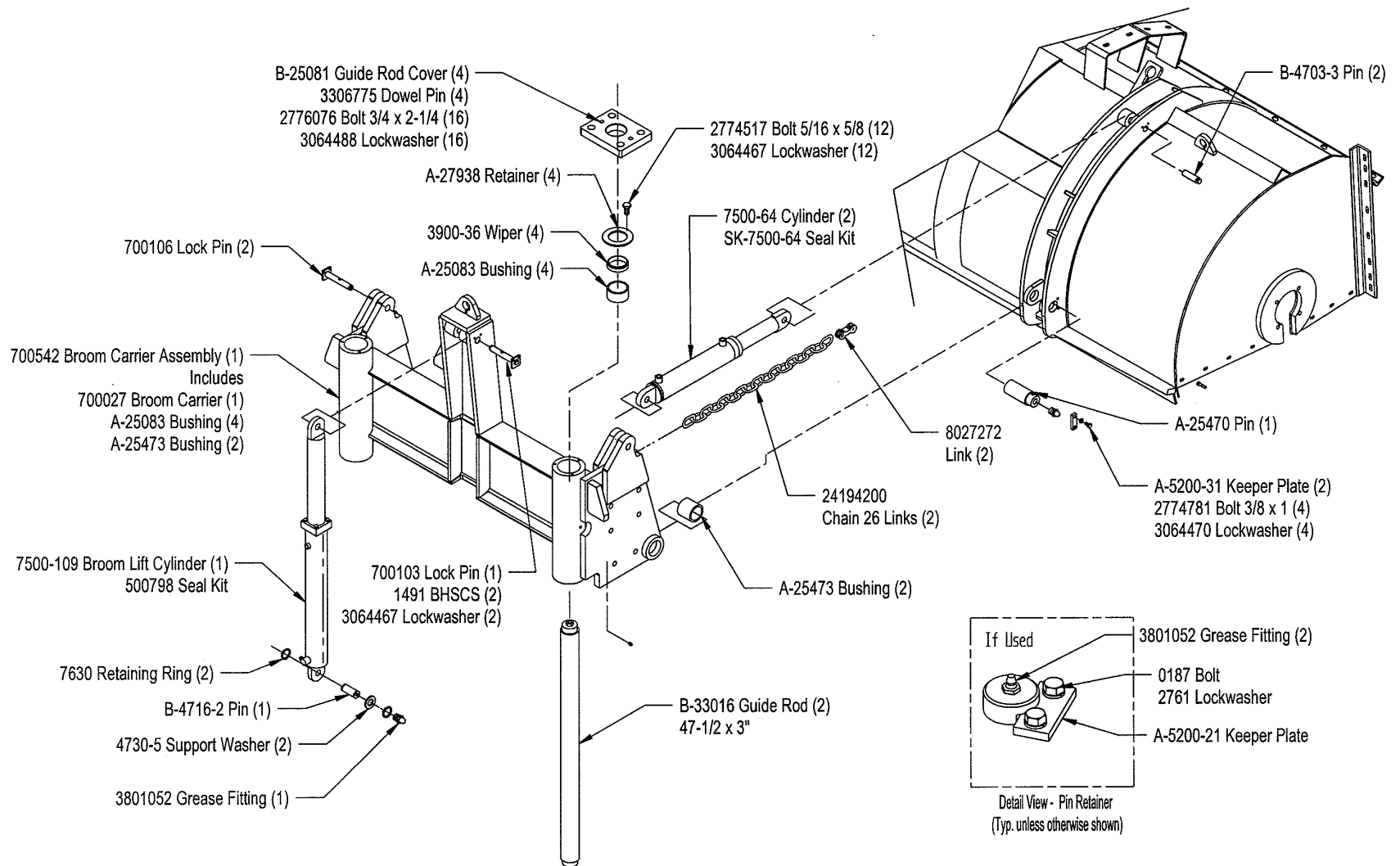


- NOTES:
1. APPLY SYNTHETIC GEAR GREASE PRIOR TO ASSEMBLING INNER AND OUTER BOOMS
 2. ALL CYLINDERS MUST BE CAPPED
 3. ALL PIN TO BE GREASED

FIGURE 12-3B Ballast Wing Assembly Left Hand

ITEM PART NO.	NO.	DESCRIPTION	UNITS PER ASSEMBLUY
1	700298	Weldment, Inner Boom	1
2	700308	Weldment, Outer Boom LH	1
3	700306	Weldment, Ballast Wing LH.....	1
4	700304	Door, Std Template RHF/LH	1
5	700307	Door, Std Template RHR/LHF	1
6	700310	Pin, Template Door.....	2
7	700312	Pin, Tilt Wing	1
8	750239	Cylinders, Boom Motion	1
9	750237	Cylinder, Ballast Wing Tilt	1
10	750238	Cylinder, Template Door Rotate	2
11	1154	Bolt, Hex Hd 1-8 UNC X 5" Gr. 2	2
12	2520	Nut, 1" UN.....	2
13	2771	Washer Lock 1"	2
14	810332	Pin, 1.5 X 4.13	5
15	810447	Keep Plate CC 1.5	7
16	0187	Bolt Hex Hd 5/16"-18 X 3/4	14
17	2761	Washer Lock 5/16	14
18	3004	Fitting, Grease 1/8	10
19	A-5200-31	Plate, Keeper CC 2.0	1
20	0323	Bolt Hex, Hd 3/8-16 UNC X 1.....	2
21	2762	Washer Lock 3/8	2
22	810692	Pin, Outer Door Tilt Cylinder	1
23	0565	Bolt Hex Hd 1/2"-13 X 2	4
24	2664	Nut, Stover 1/2-13	4
25	2764	Washer Lock 1/2	4

FIGURE 15-1. Direct Drive Broom S/N 800500-800526, 800528-800531



NOT SHOWN:

- 840080 Broom Shim 1/4" (2)
- A-40229 Broom Shim 1/2" (24)

FIGURE 15-1. Direct Drive Broom S/N 800500-800526, 800528-800531

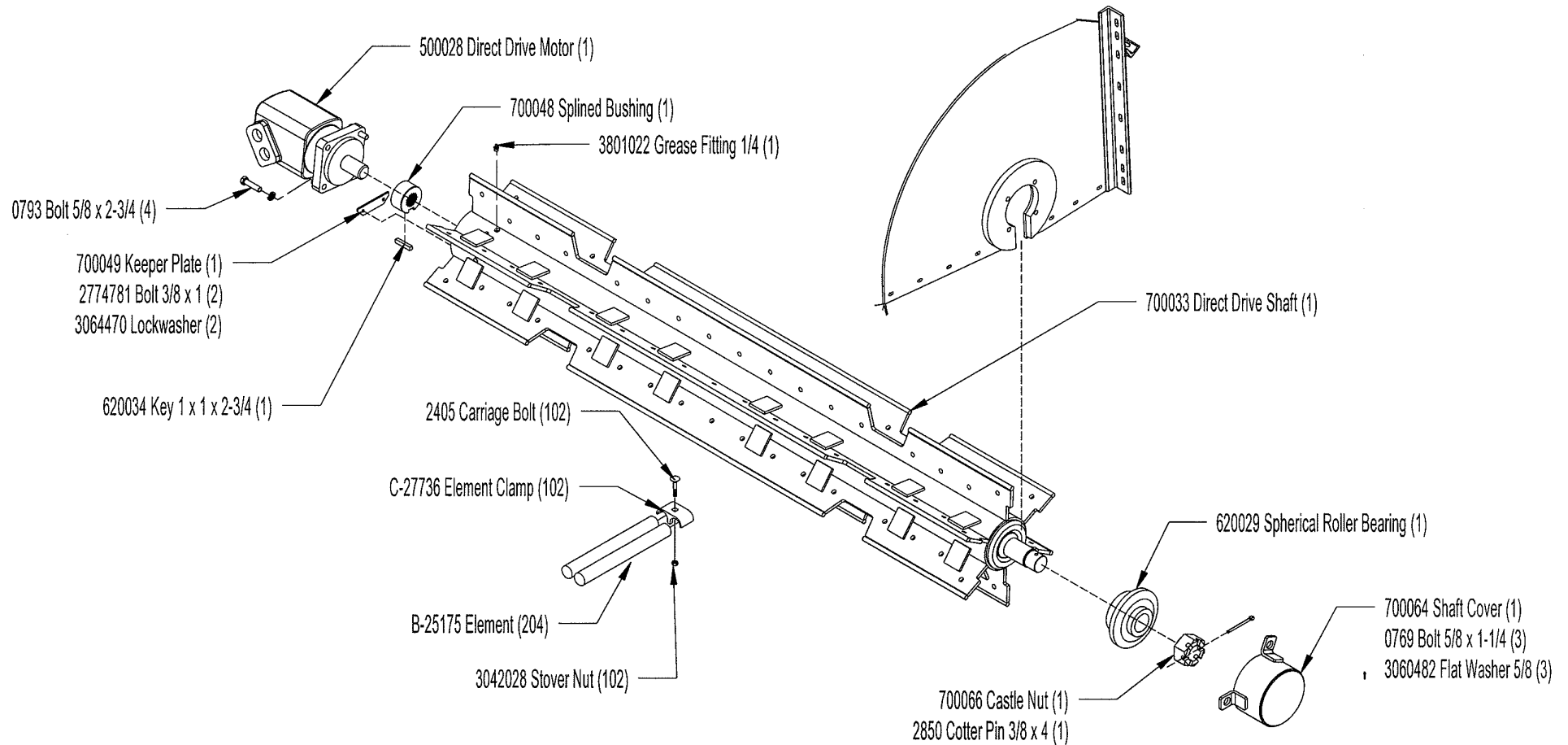


FIGURE 15-1. Direct Drive Broom S/N 800500-800526, 800528-800531

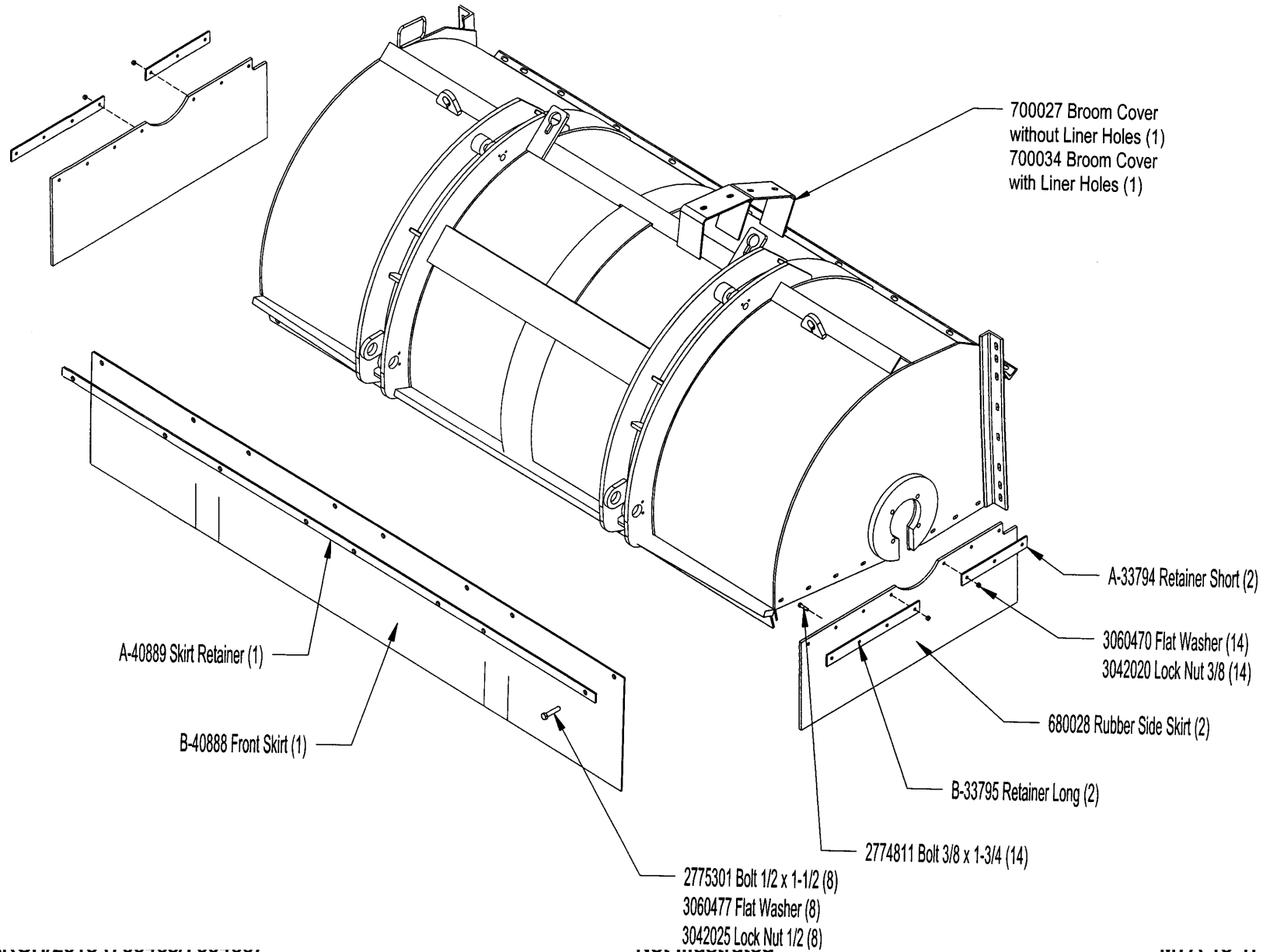
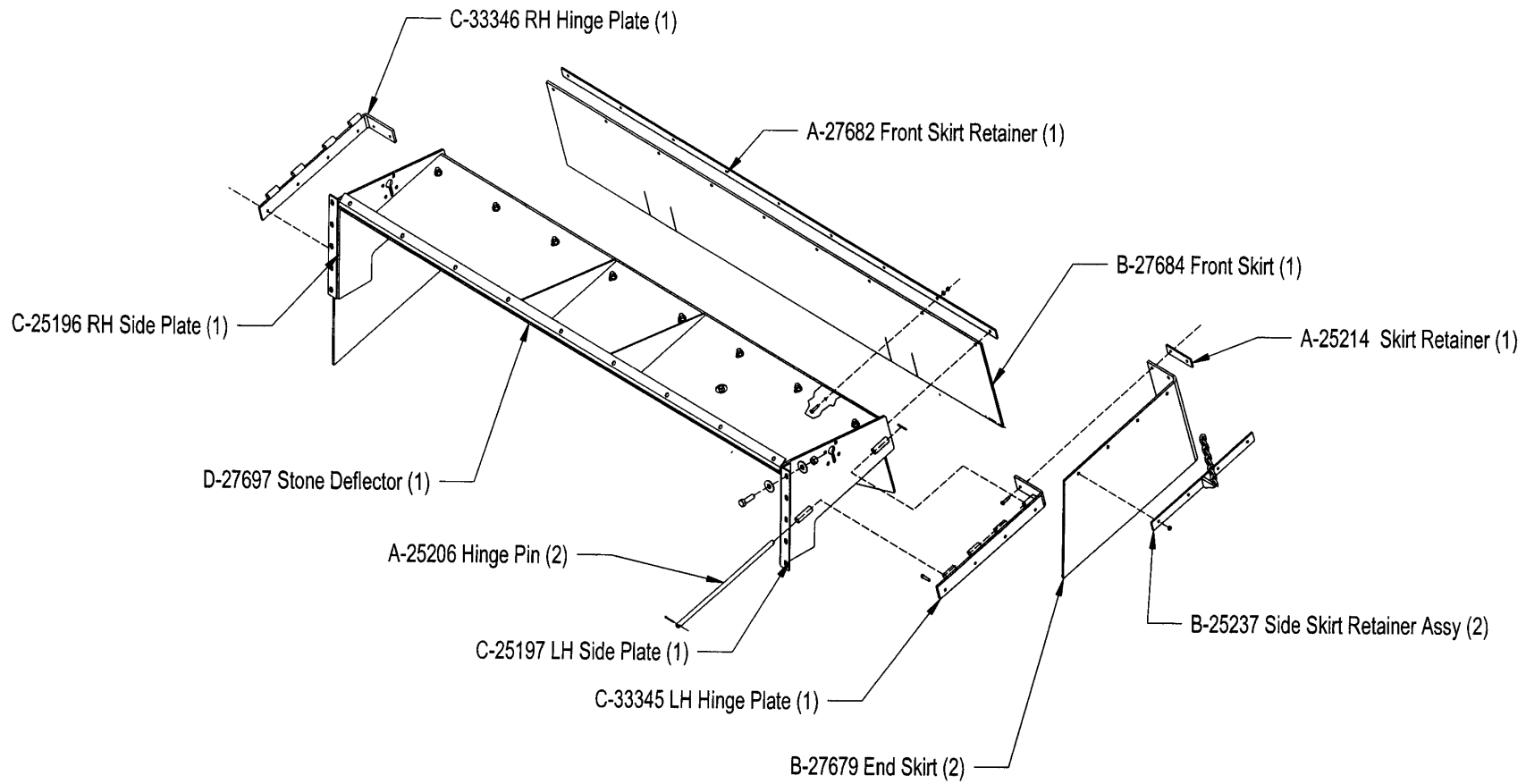


FIGURE 15-1. Direct Drive Broom S/N 800500-800526, 800528-800531



See Next Page For Deflector Liners

FIGURE 15-1. Direct Drive Broom S/N 800500-800526, 800528-800531

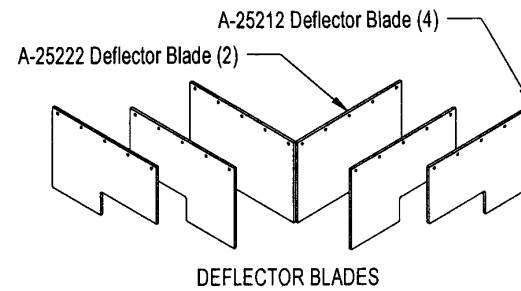
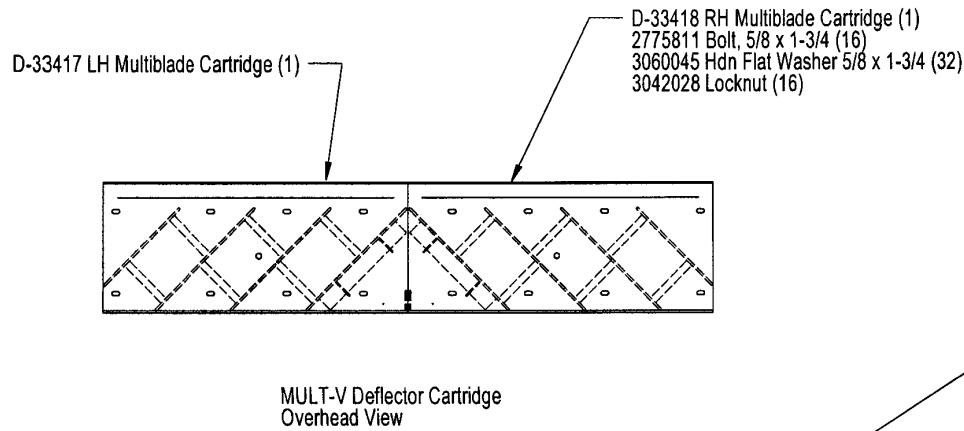
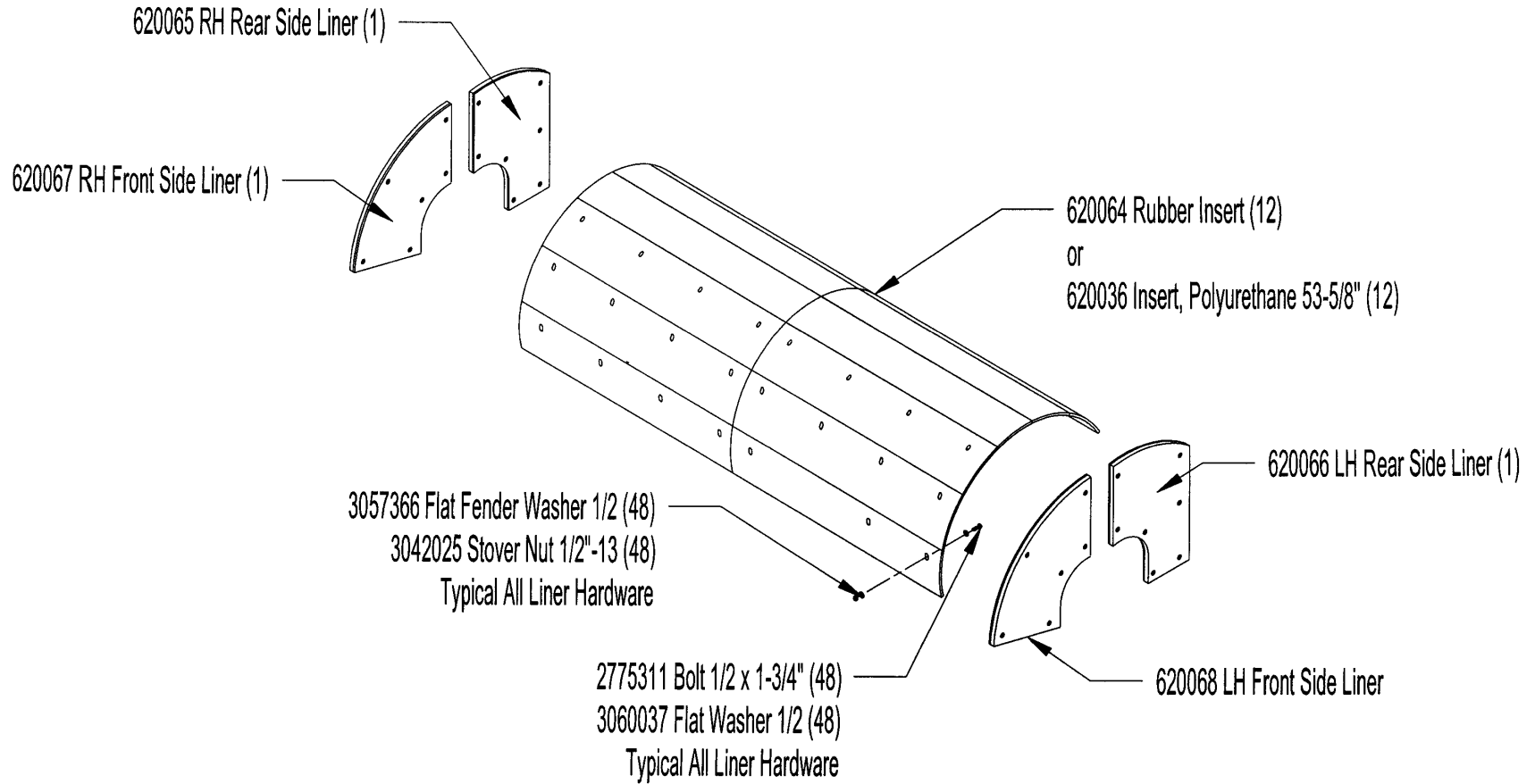


FIGURE 15-1. Direct Drive Broom S/N 800500-800526, 800528-800531



DIR DRV LINER HOLES & TILTABLE STONE DEFLECTOR
96800026

650011
BROOM COVER
w/LINER HOLES &
TILTABLE STONE
DEFLECTOR
SEE DRAWING
650011 FOR
COVER ADD-ONS

460048
96800044-ASSY5
POLYURETHANE
LINER ASSY
SEE SHEET 2

460032
BROOM SHAFT &
ELEMENTS ASSY
SEE SHEET 3

800325
STONE DEFLECTOR,
TILTABLE
SEE SHEETS 5,6,7

96800026-ASSY2
96800044-ASSY3
DEFLECTOR RIGHT
SKIRT ASSY
SEE SHEET 6

DIR DRV LINER HOLES & NON-TILTABLE STONE DEFLECTOR
96800044

460115
NO DUST
COLLECTOR ASSY
SEE SHEET 4

96800026-ASSY2
96800044-ASSY3
SHAFT 460032, PUMP
& BEARINGS ASSY
SEE SHEET 3

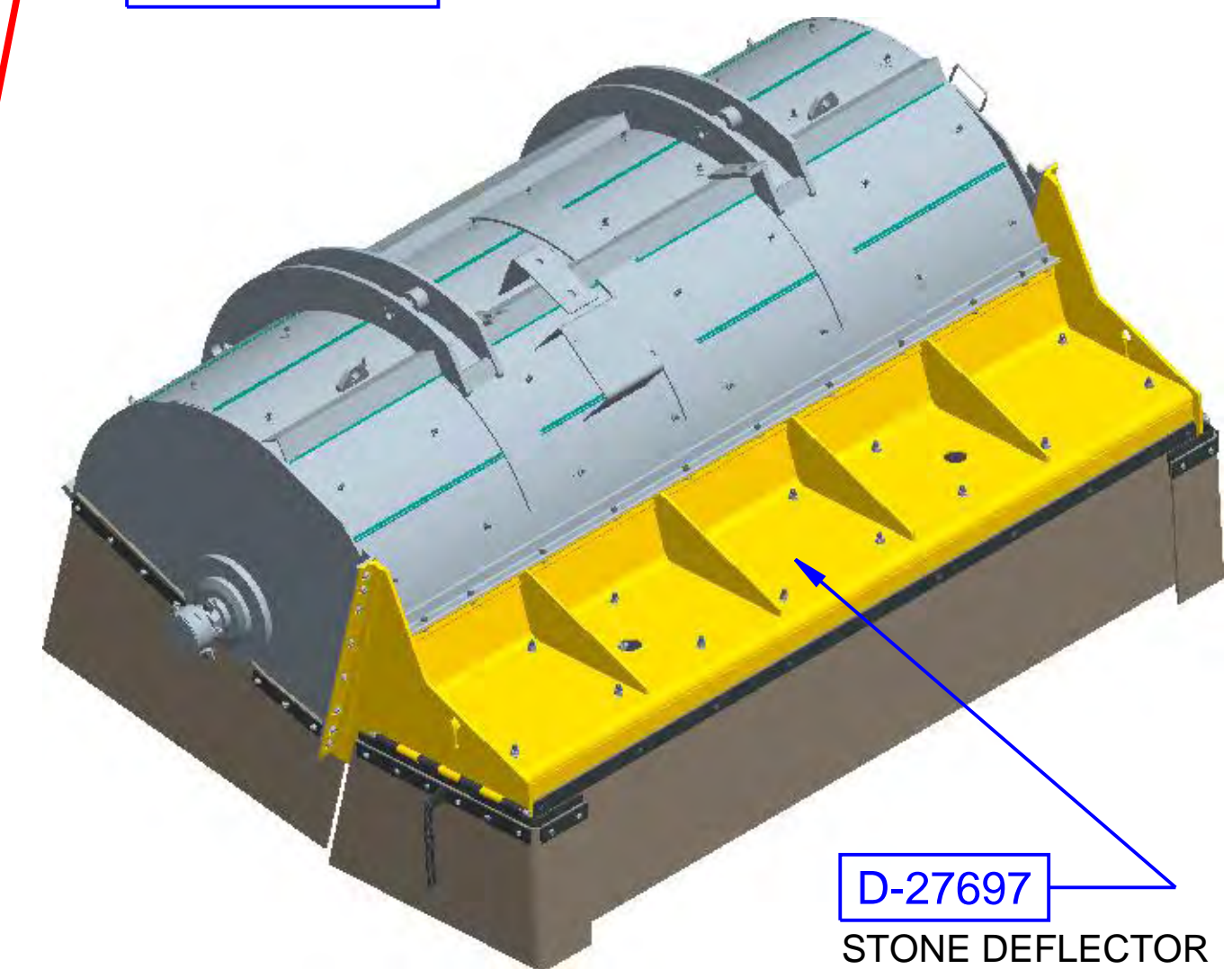
800045
96800044-ASSY4
DEFLECT CARTRIDGE
MULTI V ASSY
SEE SHEET 5

D-27697
STONE DEFLECTOR
NON-TILTABLE
SEE SHEETS 5,6,7

96800026-ASSY1
96800044-ASSY1
RUBBER SIDE
SKIRT ASSY
SEE SHEET 4

96800026-ASSY2
96800044-ASSY3
DEFLECTOR REAR
SKIRT ASSY
SEE SHEET 6

96800026-ASSY2
96800044-ASSY3
DEFLECTOR REAR
SKIRT ASSY
SEE SHEET 6

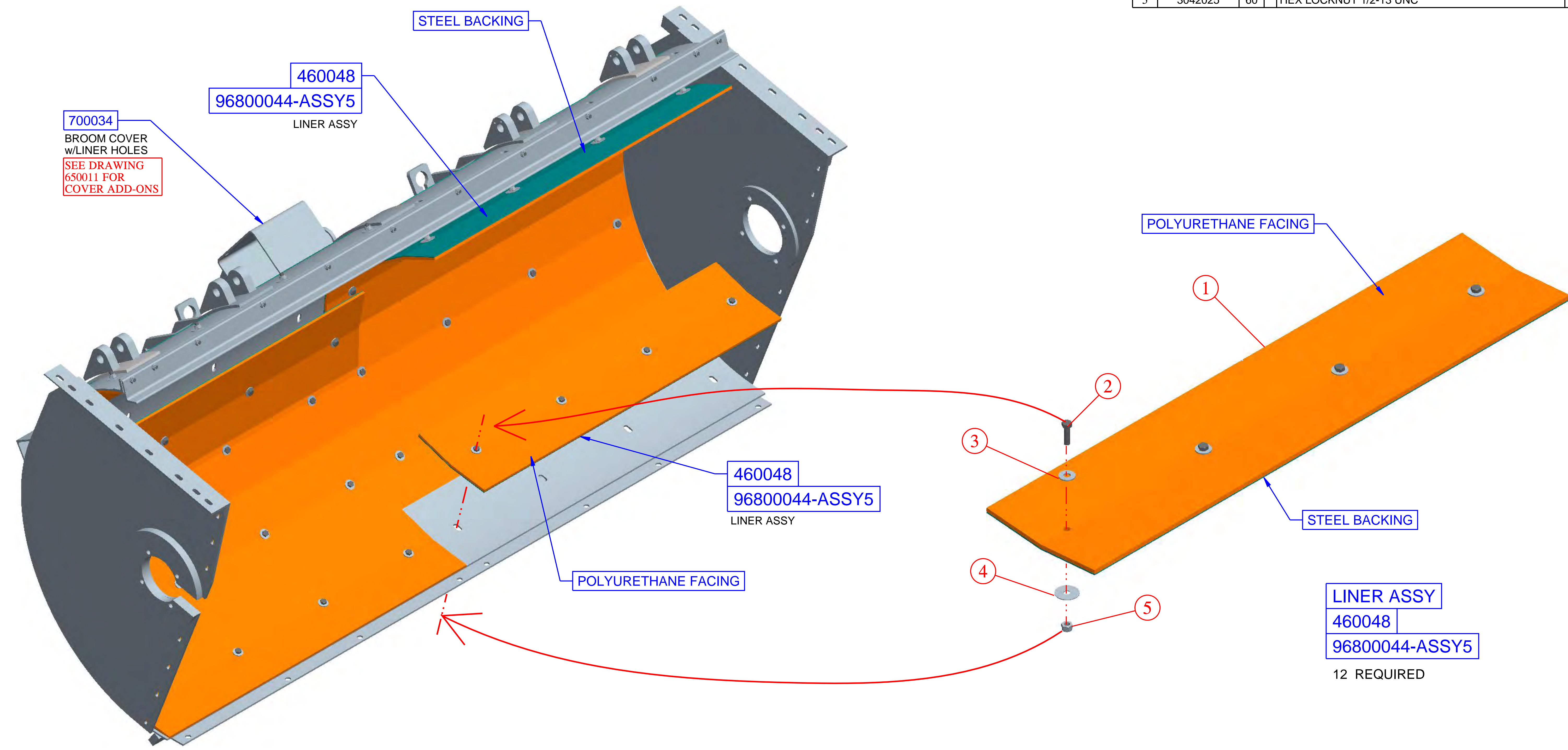


CUSTOMARY: ALL DIMENSIONS IN INCHES					
IMPLIED TOLERANCES		PRODUCT: M7			
FRACTION	± .18	DESCRIPTION: ASSY, BROOM W/STONE DEFLECTORS			
.X	± .06	SIZE	SCALE	DRAWING CODE NUMBER	REV.
.XX	± .03	D	.125	460520	A
.XXX	± .010	ASSEMBLY:-		SHEET 1 OF 9	
PLANE ANGLES ±.1°					

REVISION HISTORY
LOCATED ON LAST SHEET

BILL OF MATERIALS				
ITEM NO.	PART NUMBER OR MATERIAL	QTY. REQ.	DWG. SIZE	PART NAME
1	620036	12		INSERT,LINER POLYURETHANE W/STEEL BACKING
2	2775311	48		CAPSCREW, HEX HEAD 1/2 X 1-3/4
3	3060037	48		WASHER,WROUGHT 1/2
4	3057366	48		WASHER,FENDER .5
5	3042025	60		HEX LOCKNUT 1/2-13 UNC

BROOM COVER & LINERS ASSY



700034
BROOM COVER
w/LINER HOLES
SEE DRAWING
650011 FOR
COVER ADD-ONS

460048
96800044-ASSY5
LINER ASSY

STEEL BACKING

460048
96800044-ASSY5
LINER ASSY

POLYURETHANE FACING

POLYURETHANE FACING

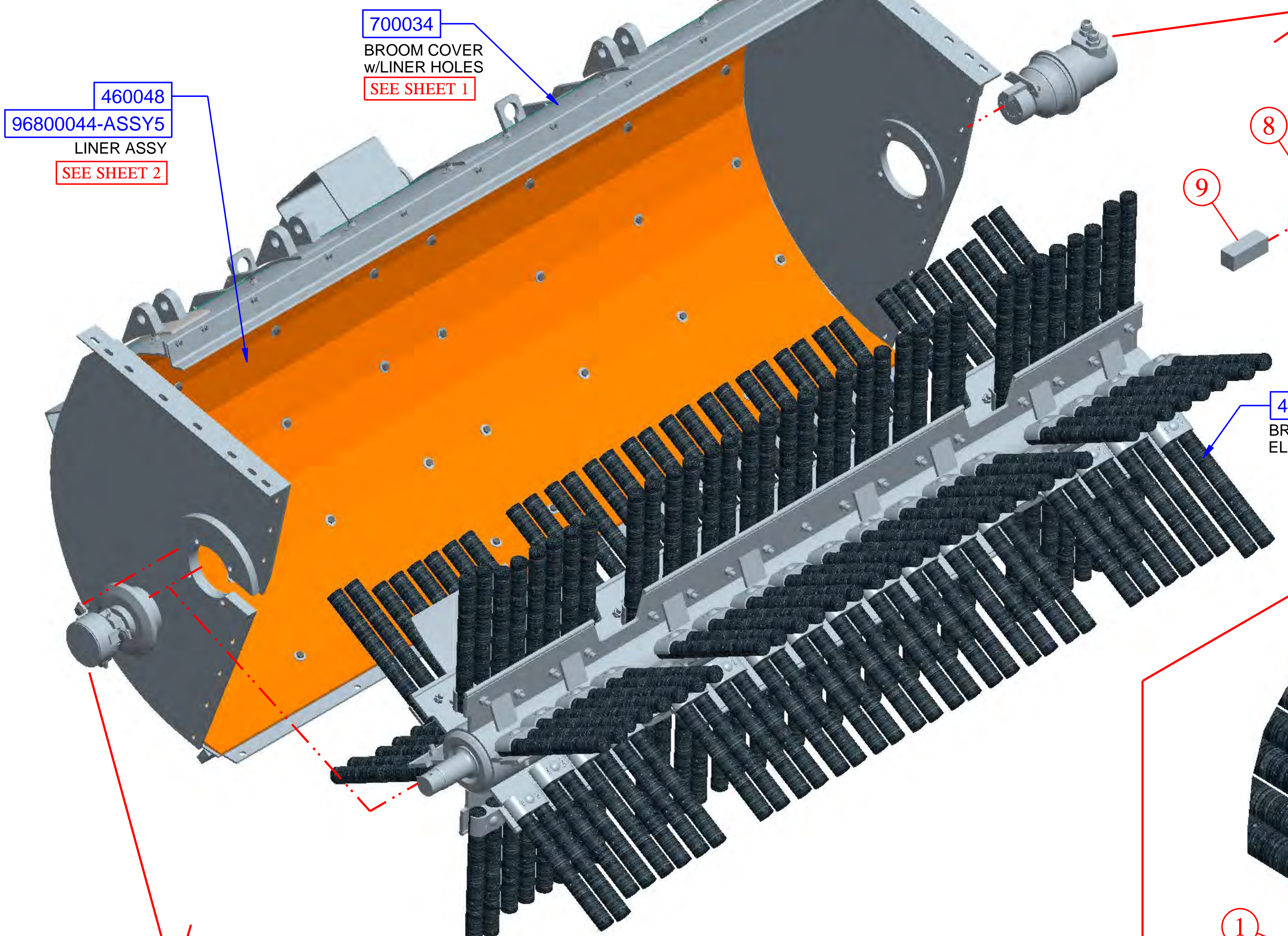
STEEL BACKING

LINER ASSY
460048
96800044-ASSY5
12 REQUIRED

CUSTOMARY: ALL DIMENSIONS IN INCHES					
IMPLIED TOLERANCES		PRODUCT: M7			
FRACTION	± .18	DESCRIPTION: ASSY, BROOM W/STONE DEFLECTORS			
.X	± .06	SIZE	SCALE	DRAWING CODE NUMBER	REV.
.XX	± .03	D	.125	460520	A
.XXX	± .010	ASSEMBLY:-		SHEET 2 OF 9	
PLANE ANGLES ±.1°					

REVISION HISTORY
LOCATED ON LAST SHEET

BROOM COVER & SHAFT ASSY



ITEM NO.	PART NUMBER OR MATERIAL	QTY. REQ.	DWG. SIZE	PART NAME	DWG. SIZE
1	700033	1		SHAFT,DIRECT DRIVE WELD'T	
2	B-27738	204		ELEMENT, BROOM Ø1.94 x 18"	
3	C-27736	102		CLAMP	
4	2602357	102		BOLT,CARRIAGE 5/8-11 X 4.0	
5	3042028	102		HEX LOCKNUT 5/8-11 UNC	
6	500028	1		PUMP, HYD BROOM	
7	ASTM A 36	1		PLATE, .25 X 1.5 X 5.0	
8	700048	1		BUSHING,SPLINED 16TH 8/16 PITCH	
9	620034	1		KEY, 1 X 1 X 2.75	
10	2076275	2		ADAPTER, -16 37DEG X -16 O-RING	
11	2774781	2		CAPSCREW, HEX HEAD 3/8 X 1	
12	3064470	2		WASHER, LOCK 3/8	
13	620029	1		BEARING,ROLLER SPHERICAL	
14	700066	1		NUT,CASTLE 7301 MACHINED	
15	3071035	1		COTTER PIN .375 X 4.00	
16	700064	1		COVER,BROOM SHAFT	
17	2775791	3		CAPSCREW, HEX HEAD 5/8 X 1-1/4	
18	3060482	3		WASHER, SAE 5/8	

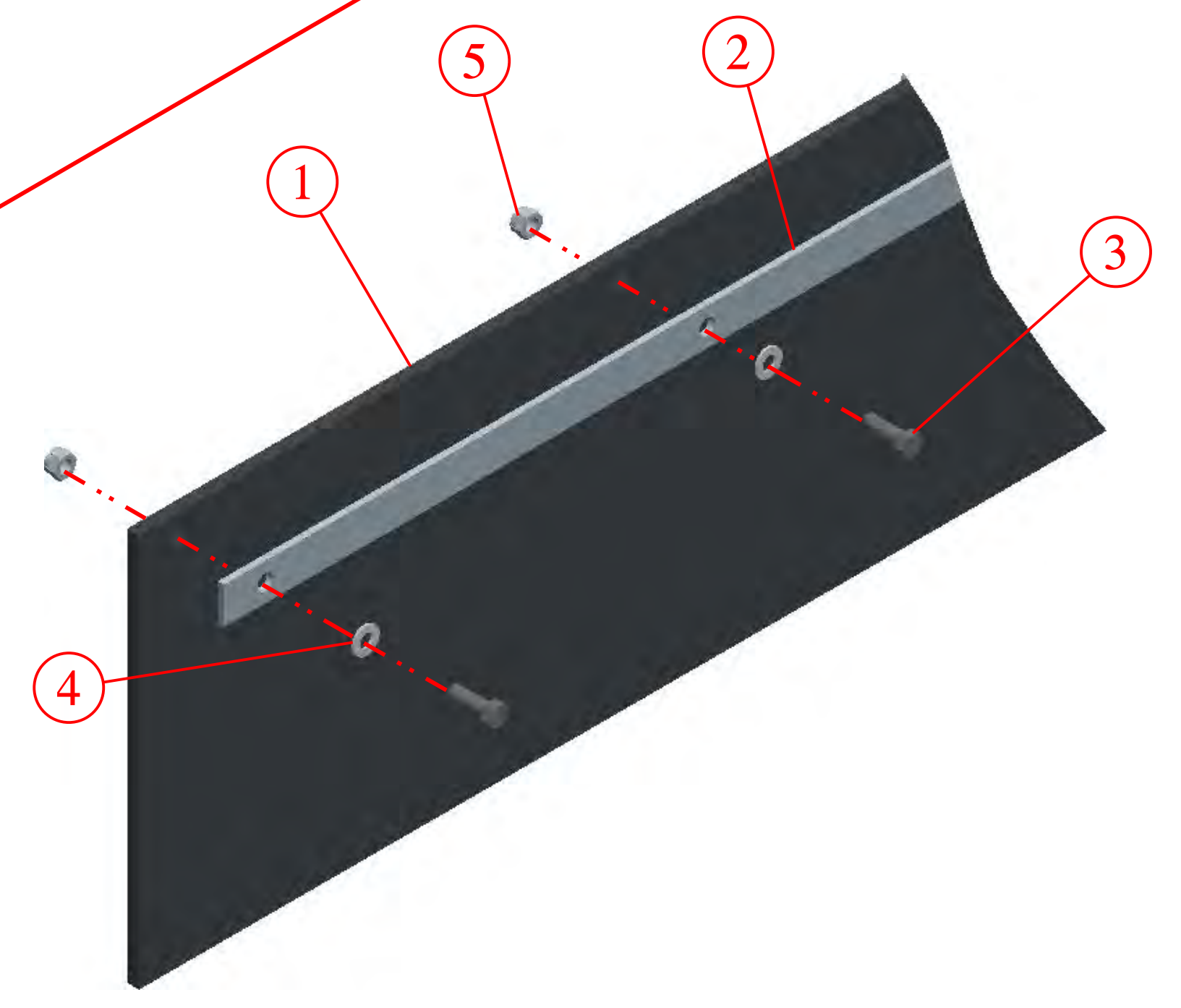
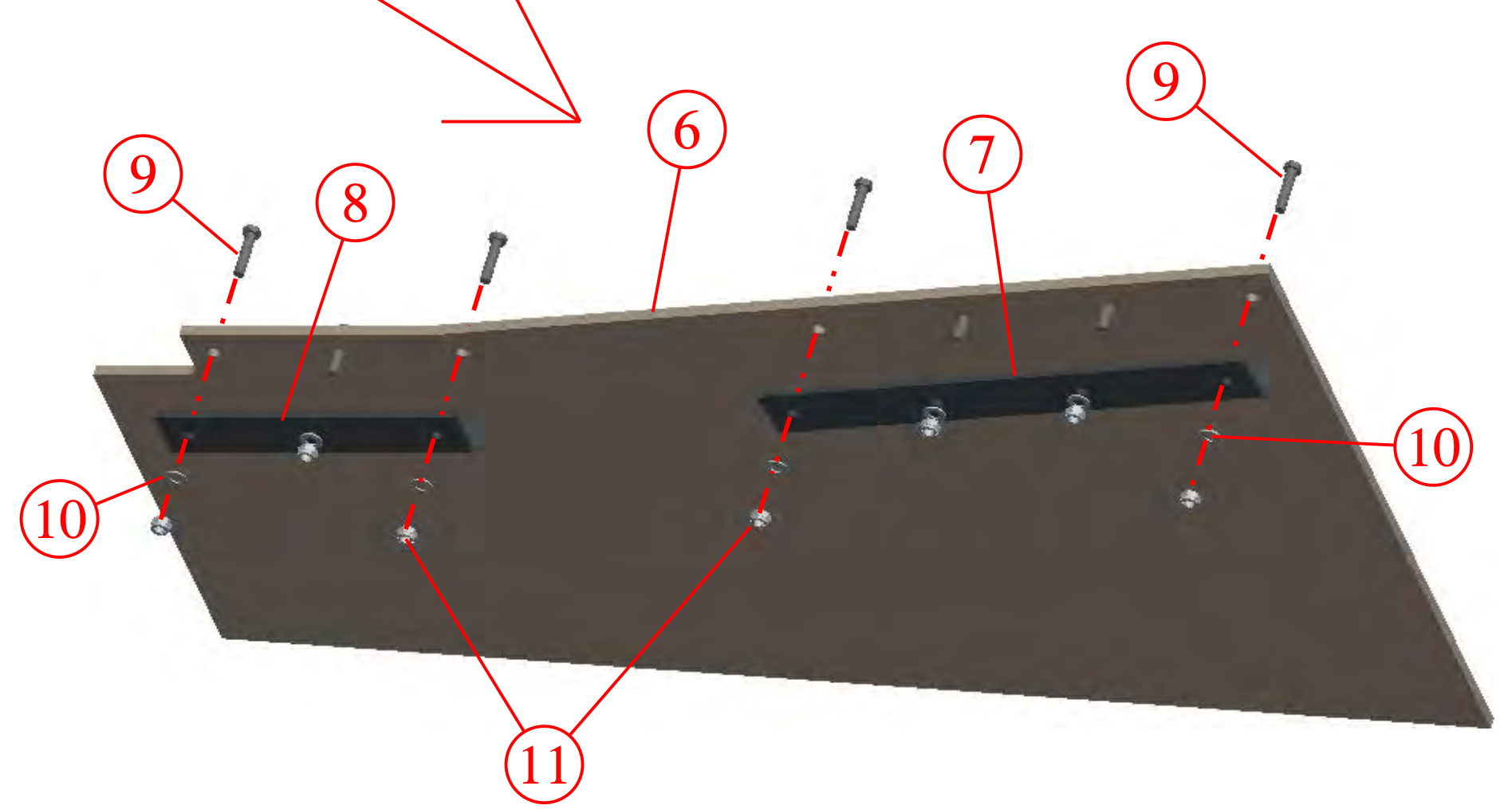
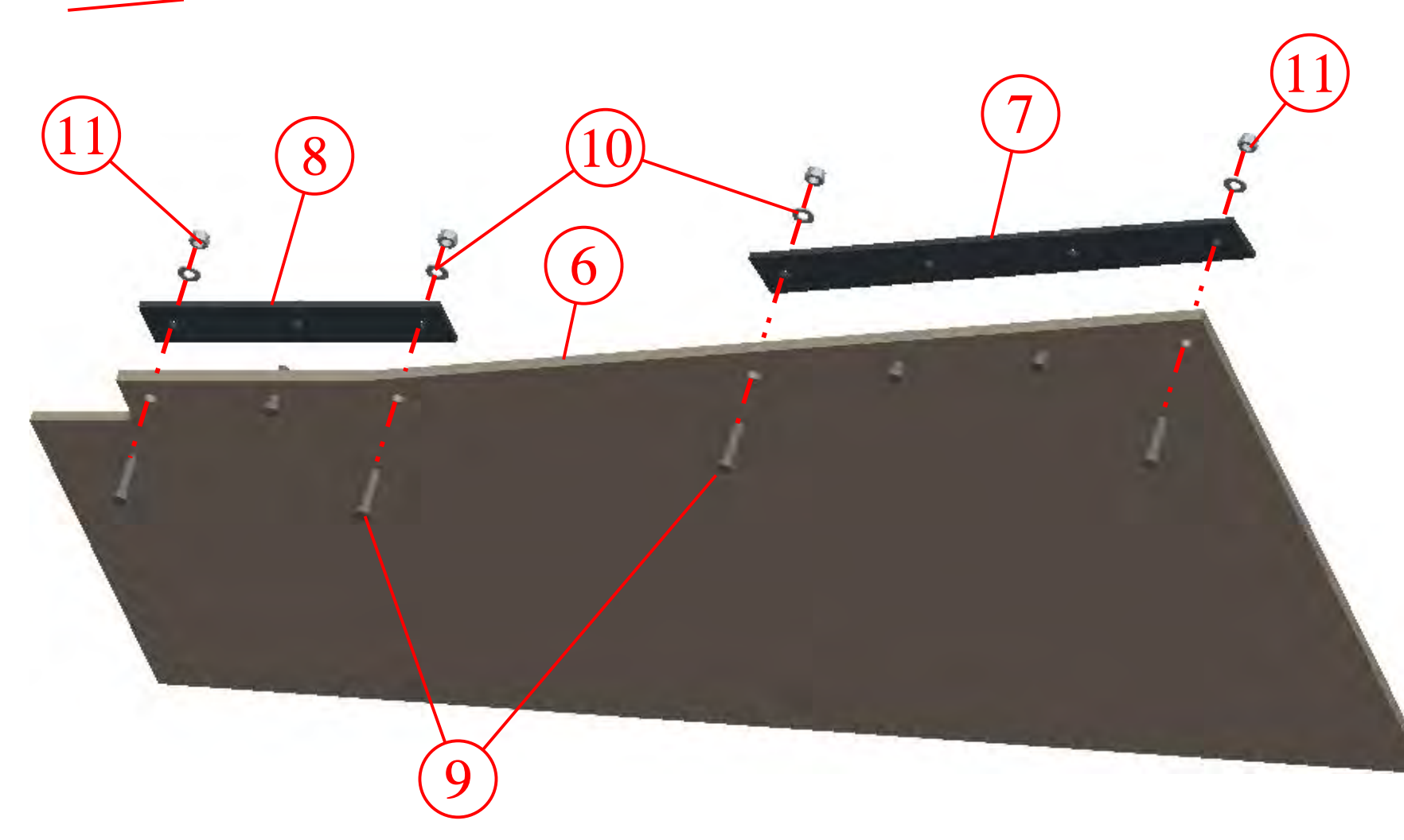
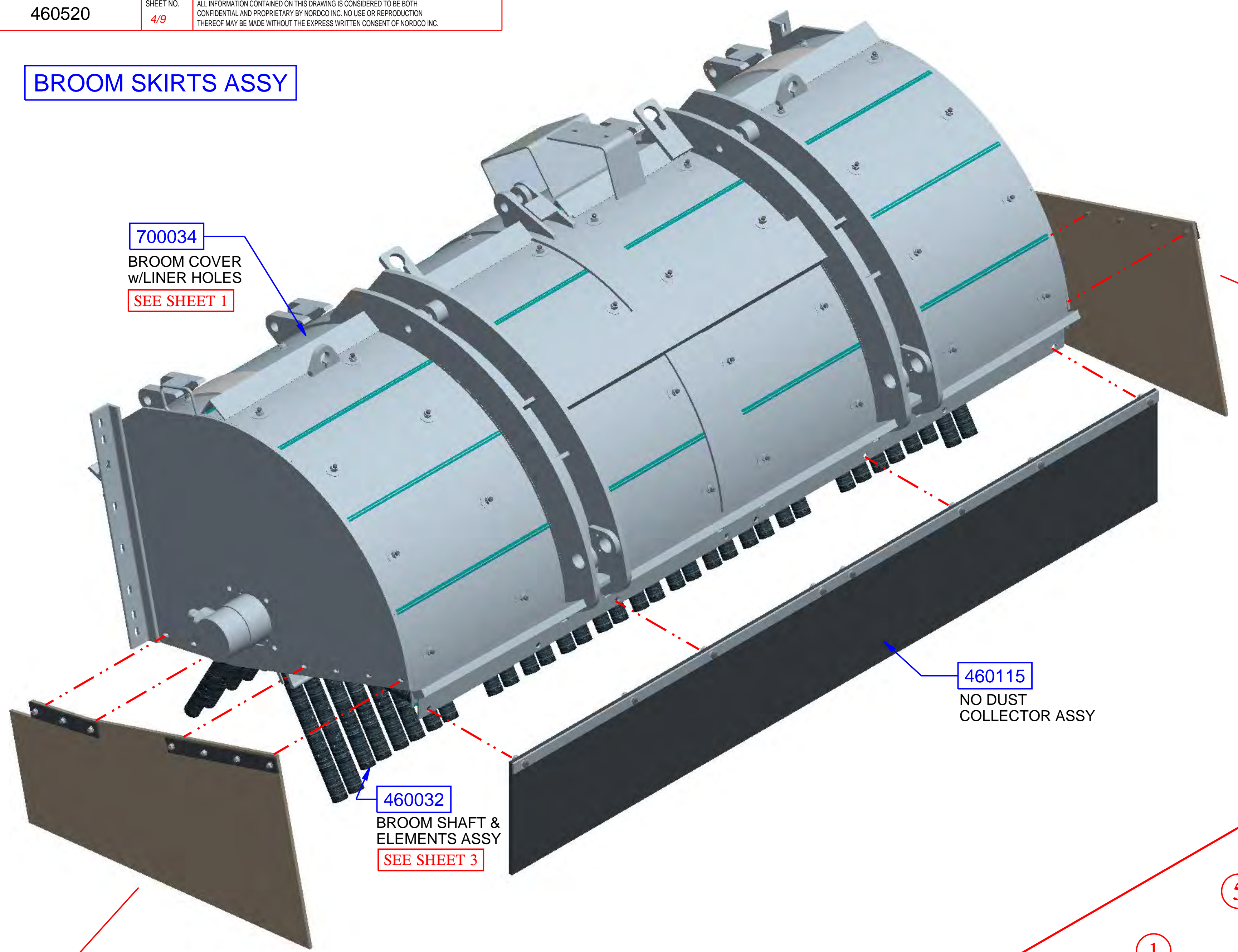
460032 - BROOM SHAFT ASSY

CUSTOMARY: ALL DIMENSIONS IN INCHES					
IMPLIED TOLERANCES		PRODUCT: M7			
FRACTION	± .18	DESCRIPTION: ASSY, BROOM W/STONE DEFLECTORS			
.X	± .06	SIZE	SCALE	DRAWING CODE NUMBER	REV.
.XX	± .03	D	.125	460520	A
.XXX	± .010	ASSEMBLY:-		SHEET 3 OF 9	
<small>INCHES FINISH UNLESS OTHERWISE STATED</small> <small>PLANE ANGLES ±.1°</small>					

REVISION HISTORY
LOCATED ON LAST SHEET

ITEM NO.	PART NUMBER OR MATERIAL	QTY. REQ.	DWG. SIZE	PART NAME
1	A-40889	1		RUBBER RETAINER
2	B-40888	1		RUBBER SKIRT
3	2775301	8		CAPSCREW, HEX HEAD 1/2 X 1-1/2
4	3060477	20		WASHER, SAE 1/2 HARD'D RC38-45
5	3042025	68		HEX LOCKNUT 1/2-13 UNC
6	680028	2		CONVEYOR BELT, 7/16 X 25-1/2 X 46-1/4
7	A-33795	2		RUBBER RETAINER
8	A-33794	2		RUBBER RETAINER
9	2774811	14		CAPSCREW, HEX HEAD 3/8 X 1-3/4
10	3064470	2		WASHER, LOCK 3/8
11	3042020	14		HEX LOCKNUT 3/8-16 UNC ZINC PLATED

BROOM SKIRTS ASSY



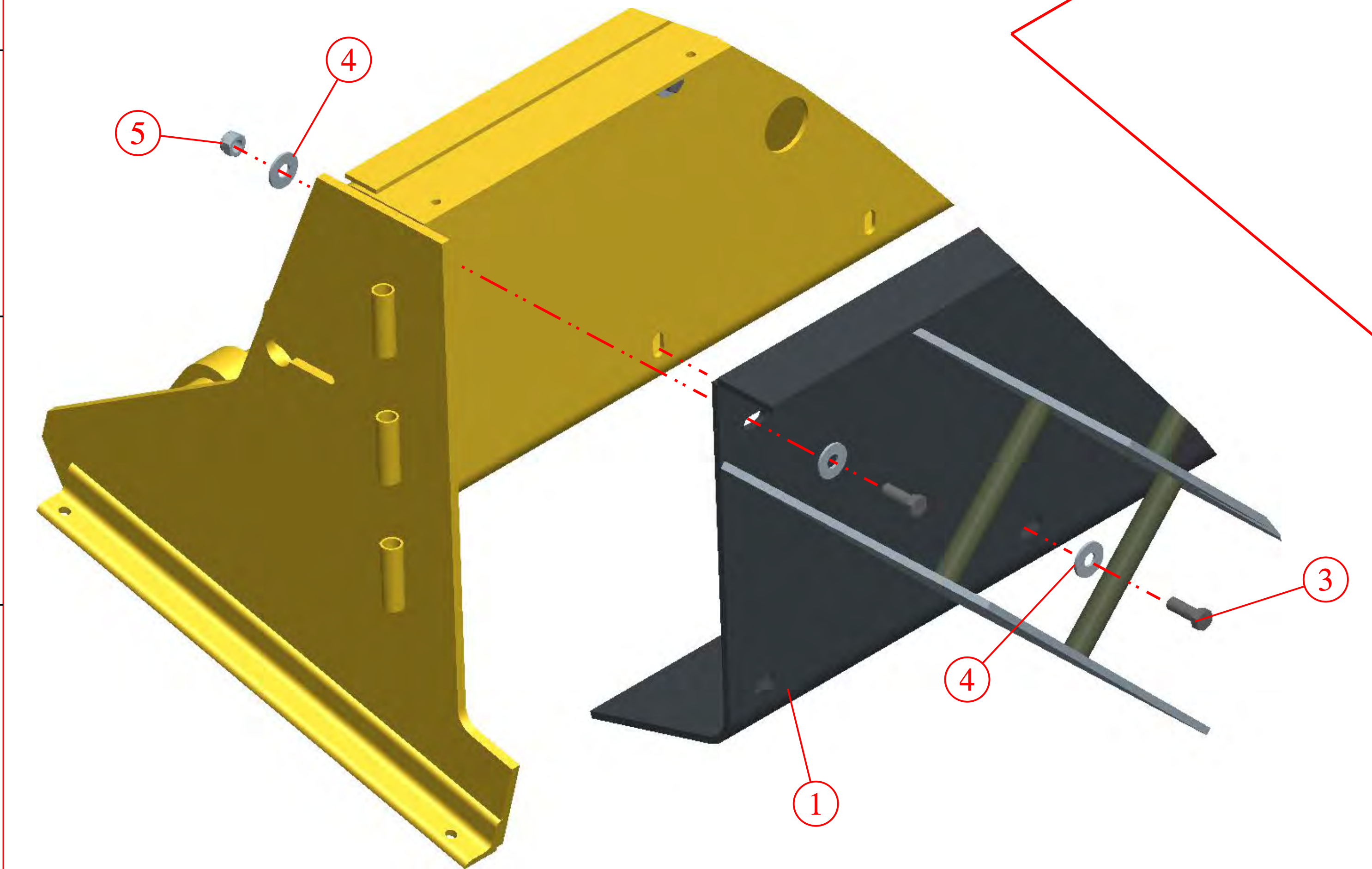
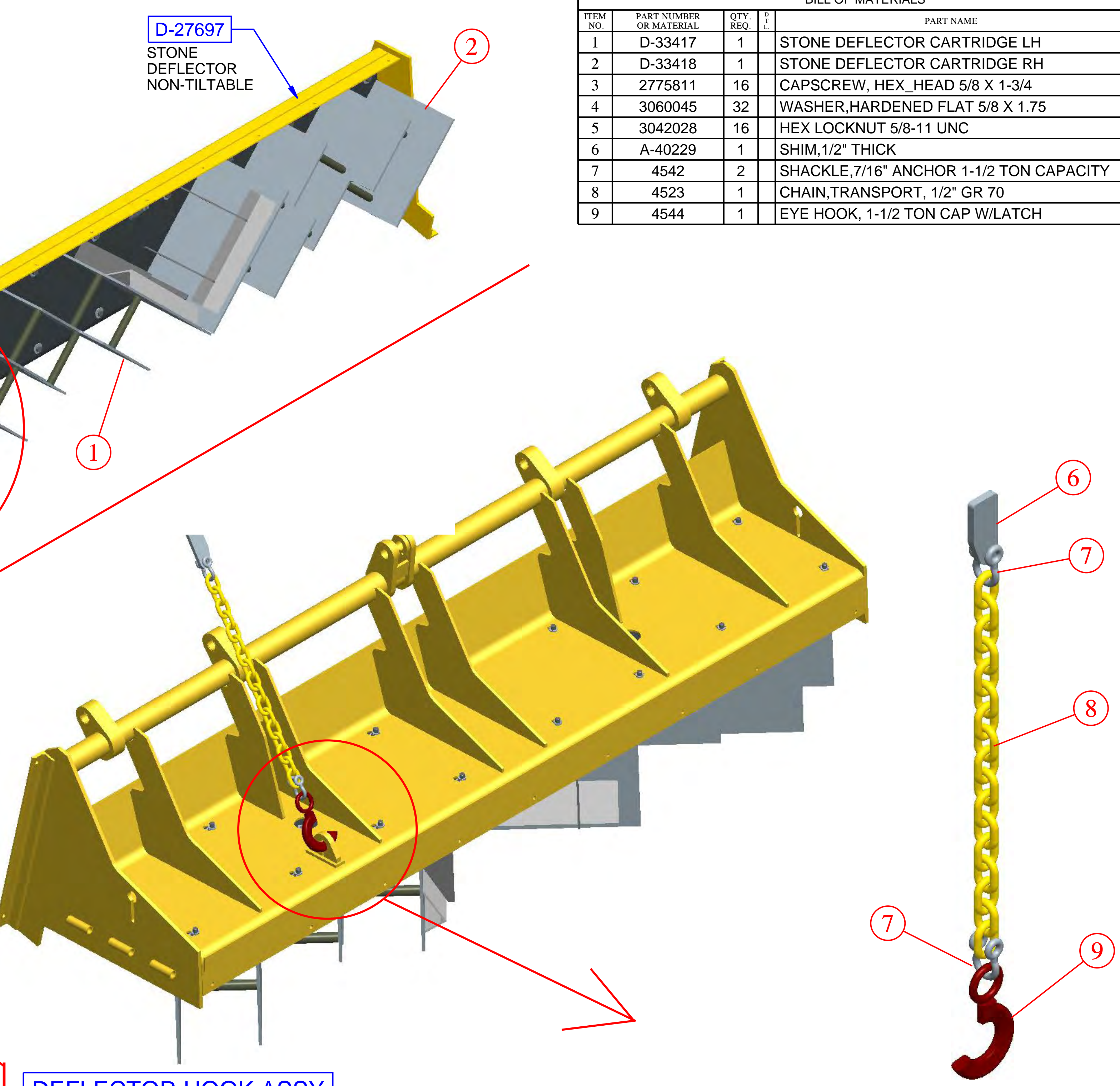
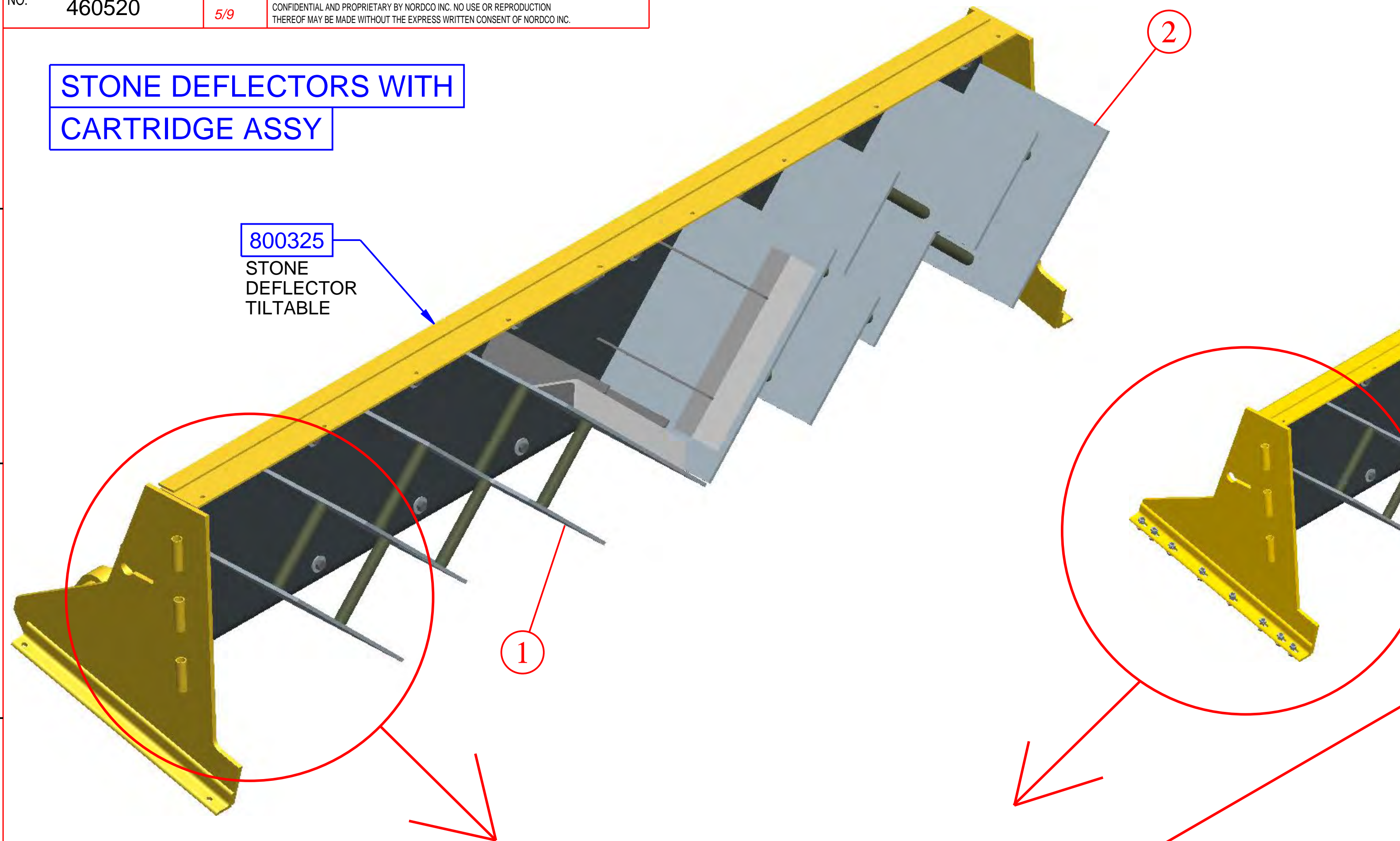
460115 - NO DUST COLLECTOR ASSY

CUSTOMARY: ALL DIMENSIONS IN INCHES					
IMPLIED TOLERANCES		PRODUCT: M7			
FRACTION	± .18	DESCRIPTION: ASSY, BROOM W/STONE DEFLECTORS			
.X	± .06	SIZE	SCALE	DRAWING CODE NUMBER	REV.
.XX	± .03	D	.125	460520	A
.XXX	± .010	ASSEMBLY:-		SHEET 4	OF 9
PLANE ANGLES ±1°					

REVISION HISTORY
LOCATED ON LAST SHEET

BILL OF MATERIALS					
ITEM NO.	PART NUMBER OR MATERIAL	QTY. REQ.	DWG. SIZE	PART NAME	DWG. SIZE
1	D-33417	1		STONE DEFLECTOR CARTRIDGE LH	
2	D-33418	1		STONE DEFLECTOR CARTRIDGE RH	
3	2775811	16		CAPSCREW, HEX_HEAD 5/8 X 1-3/4	
4	3060045	32		WASHER, HARDENED FLAT 5/8 X 1.75	
5	3042028	16		HEX LOCKNUT 5/8-11 UNC	
6	A-40229	1		SHIM, 1/2" THICK	
7	4542	2		SHACKLE, 7/16" ANCHOR 1-1/2 TON CAPACITY	
8	4523	1		CHAIN, TRANSPORT, 1/2" GR 70	
9	4544	1		EYE HOOK, 1-1/2 TON CAP W/LATCH	

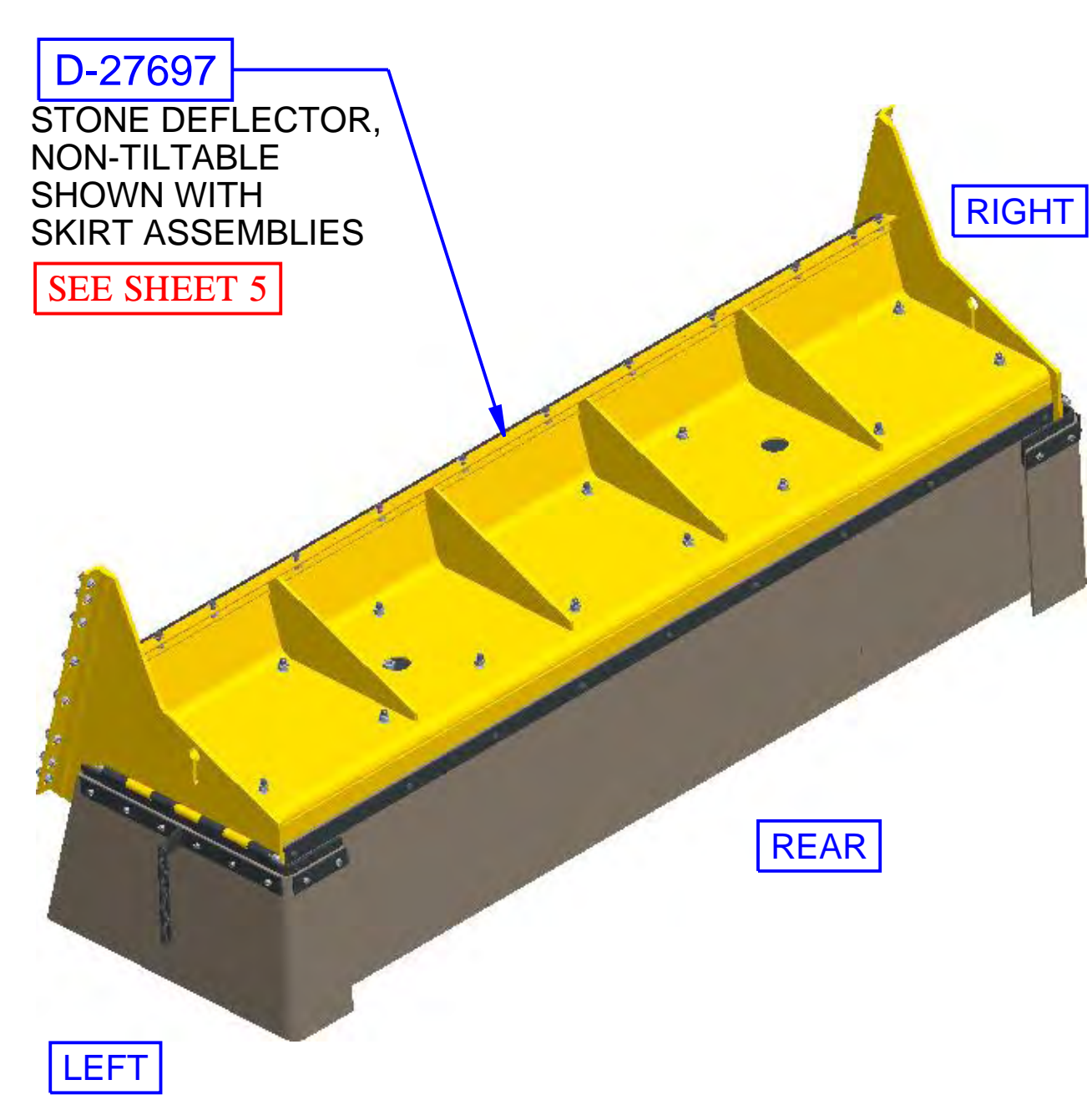
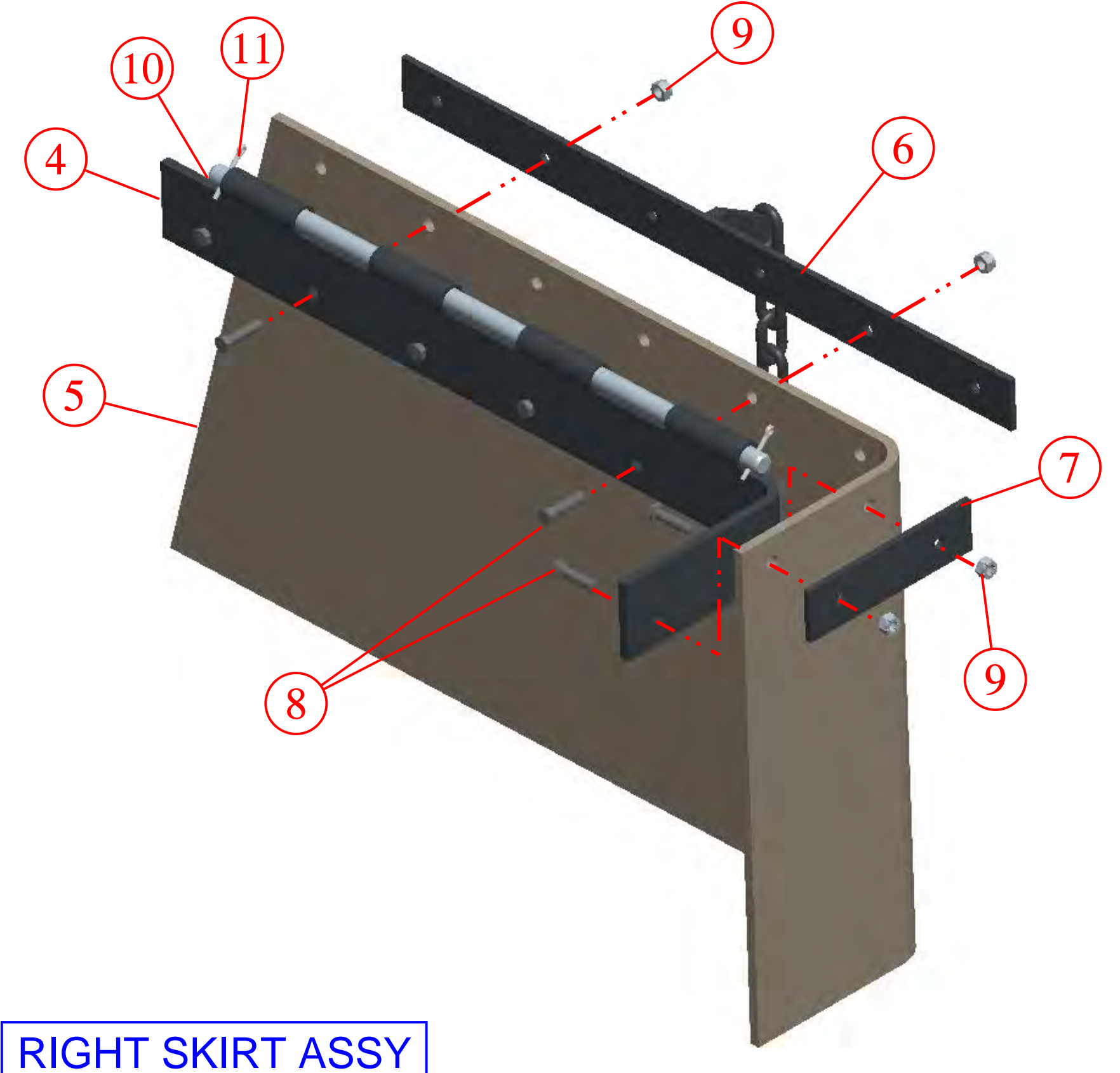
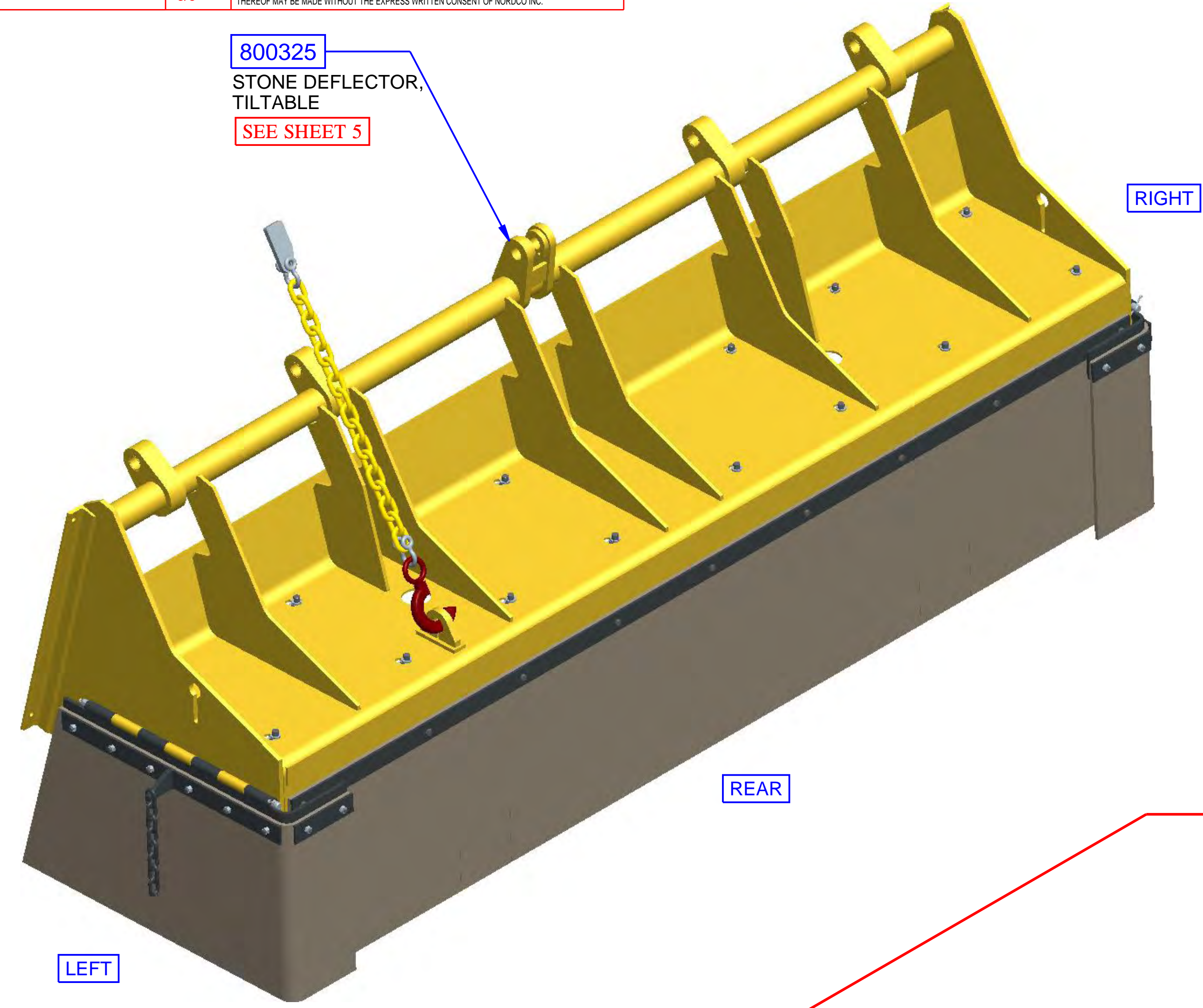
STONE DEFLECTORS WITH CARTRIDGE ASSY



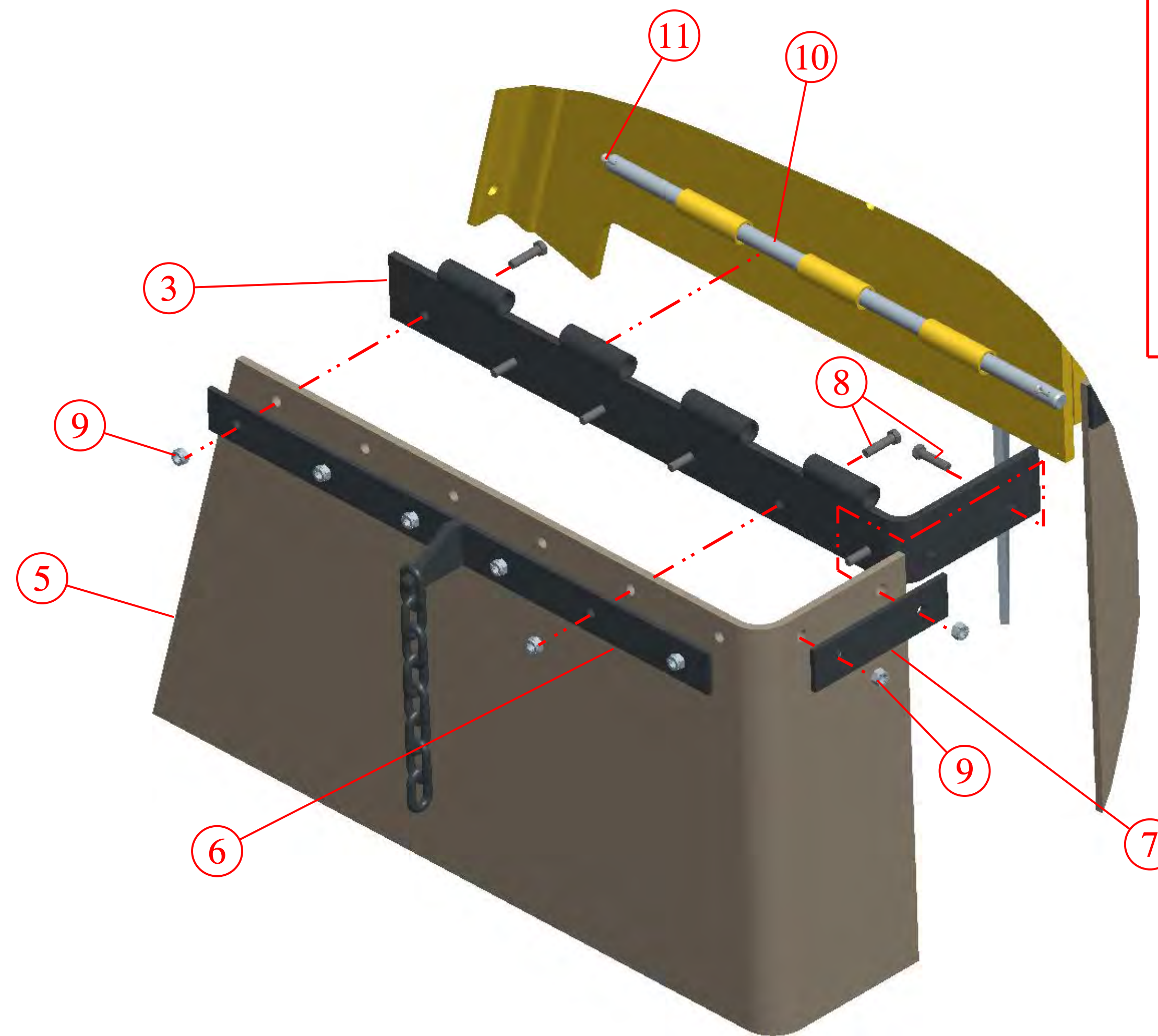
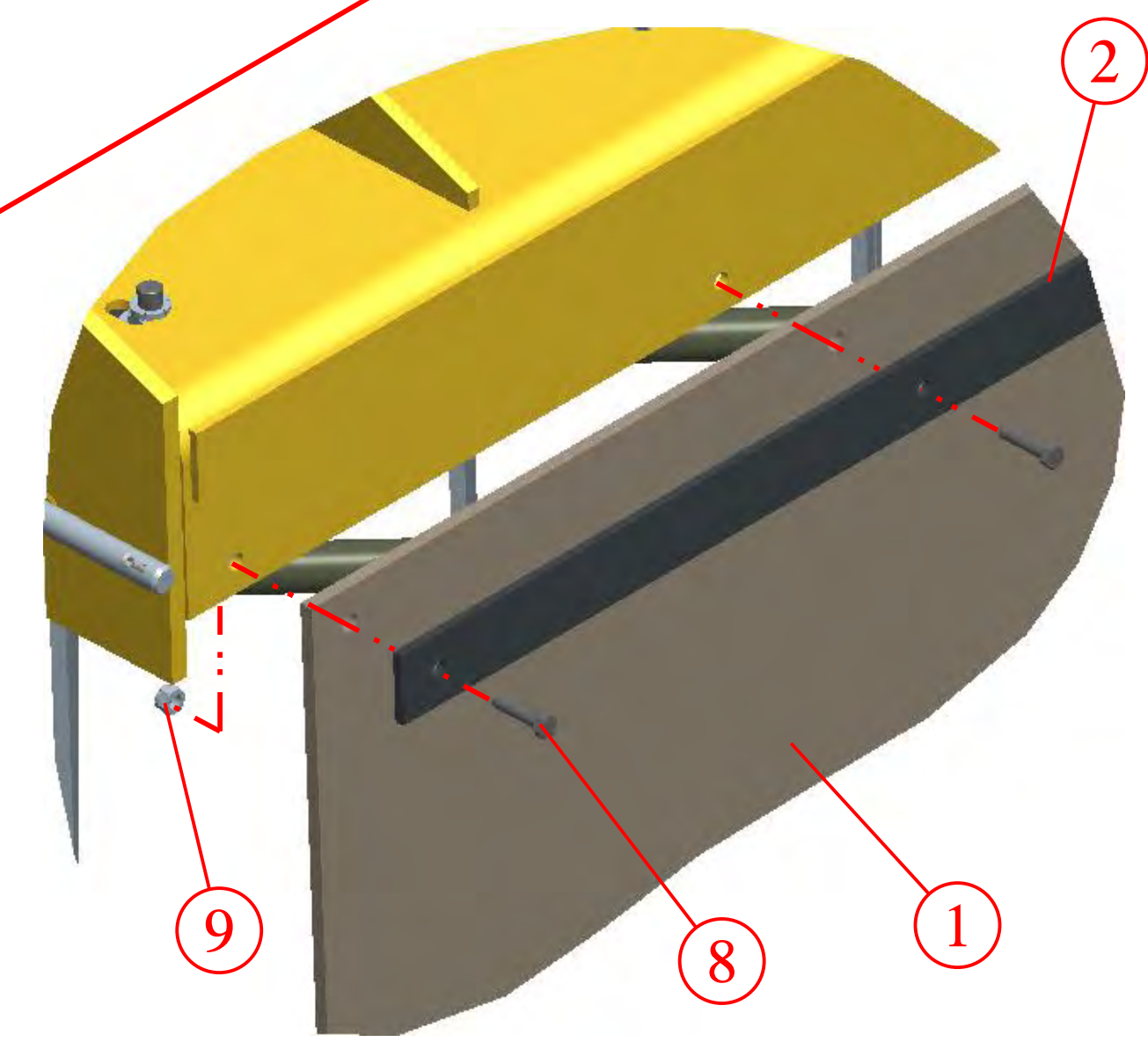
CUSTOMARY: ALL DIMENSIONS IN INCHES					
IMPLIED TOLERANCES		PRODUCT: M7			
FRACTION	± .18	DESCRIPTION: ASSY, BROOM W/STONE DEFLECTORS			
.X	± .06	SIZE	SCALE	DRAWING CODE NUMBER	REV.
.XX	± .03	D	.125	460520	A
.XXX	± .010	ASSEMBLY:-		SHEET 5 OF 9	
PLANE ANGLES ±.1°					

REVISION HISTORY LOCATED ON LAST SHEET

BILL OF MATERIALS					
ITEM NO.	PART NUMBER OR MATERIAL	QTY. REQ.	DWG. SIZE	PART NAME	DWG. SIZE
1	B-27684	1		SKIRT,RUBBER	
2	A-27682	1		RETAINER,SKIRT RUBBER 108.5 LG	
3	C-33345	1		ASSY,HINGE PLATE LH	
4	C-33346	1		ASSY,HINGE PLATE RH	
5	B-27679	2		SKIRT,CORNER RUBBER	
6	B-25237	2		ASSY,RETAINER SKIRT RUBBER	
7	A-25214	2		RETAINER,SKIRT CORNER RUBBER	
8	2774801	25		CAPSCREW, HEX HEAD 3/8 X 1-1/2	
9	3042020	25		HEX LOCKNUT 3/8-16 UNC ZINC PLATED	
10	A-25206	2		PIN, HINGE PLATE ASSY	
11	3070623	4		COTTER PIN .188 X 1.50	



STONE DEFLECTOR W/ SKIRTS ASSY



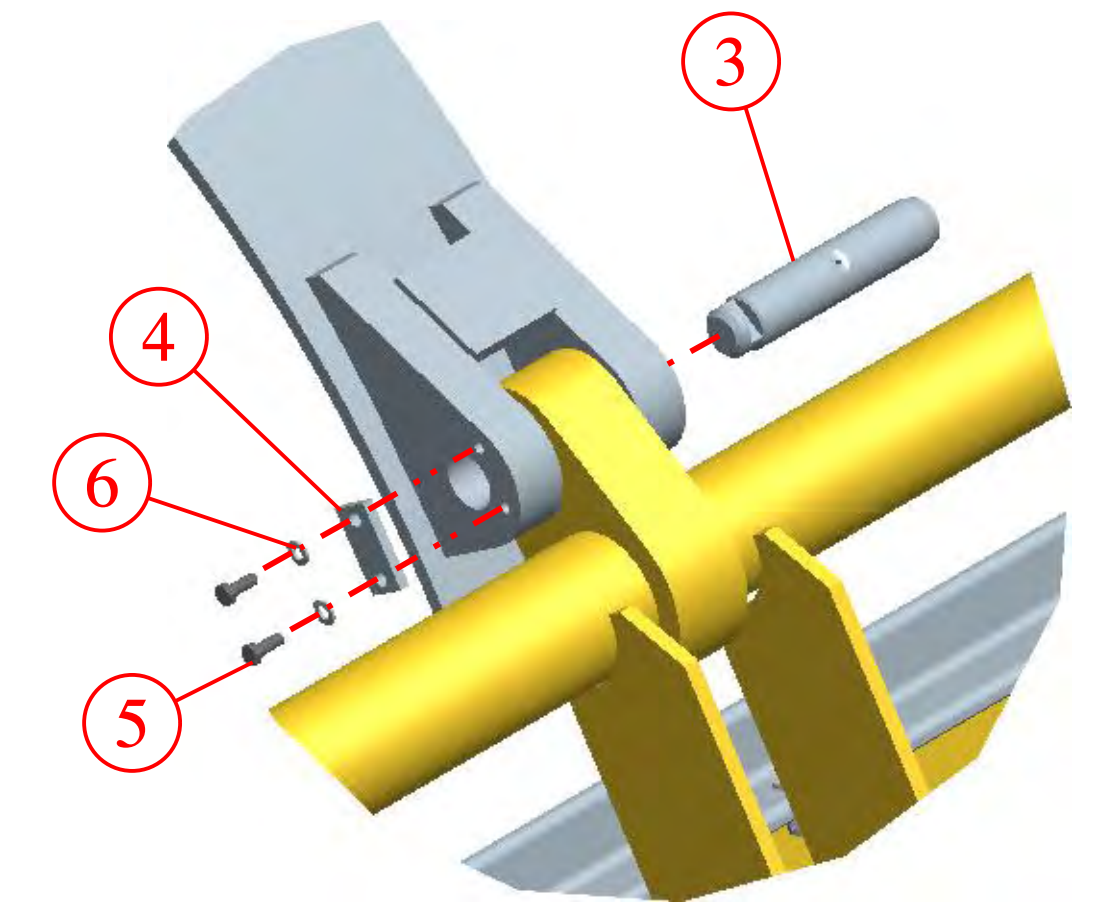
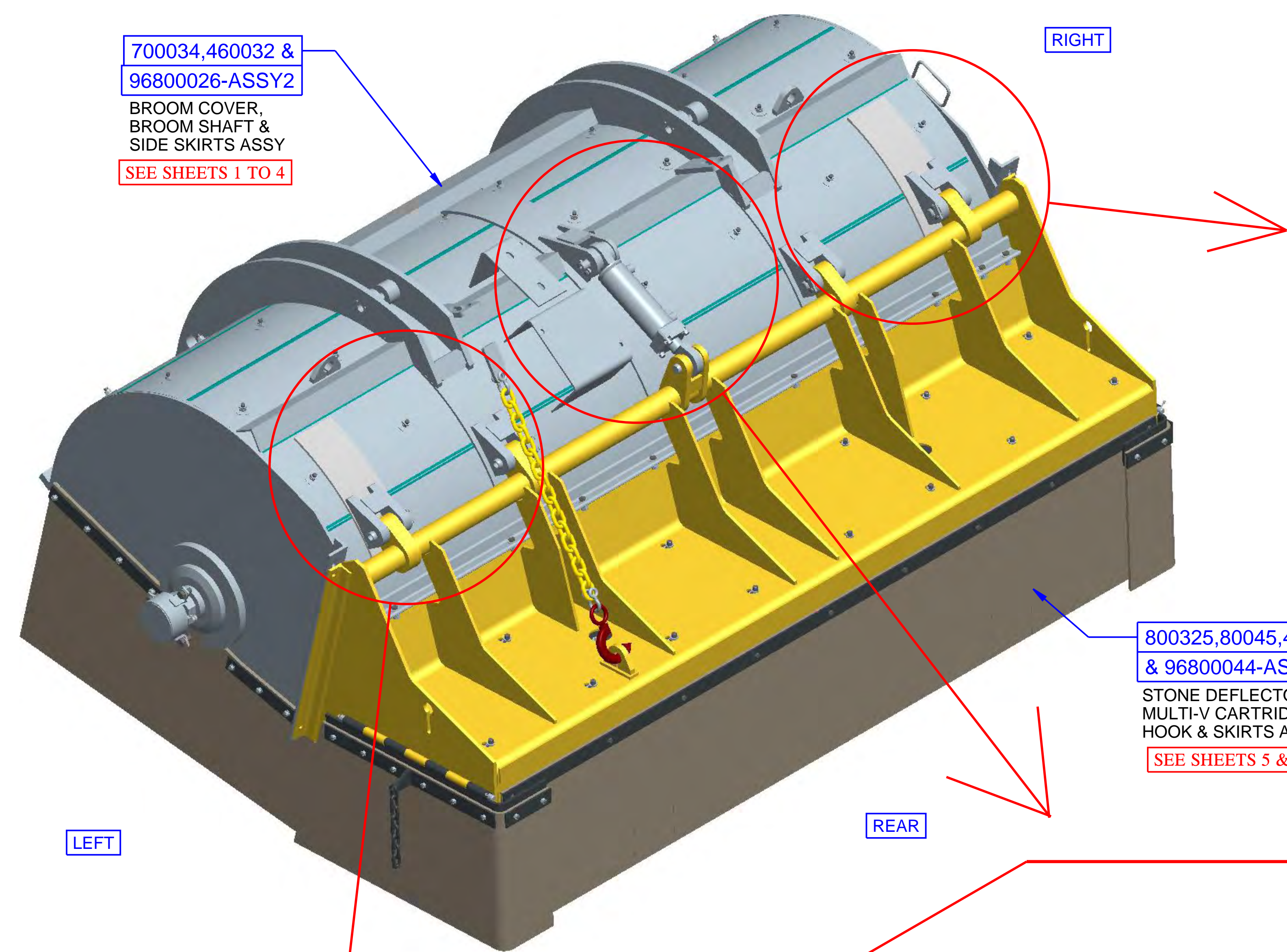
REAR SKIRT ASSY

LEFT SKIRT ASSY

REVISION HISTORY LOCATED ON LAST SHEET

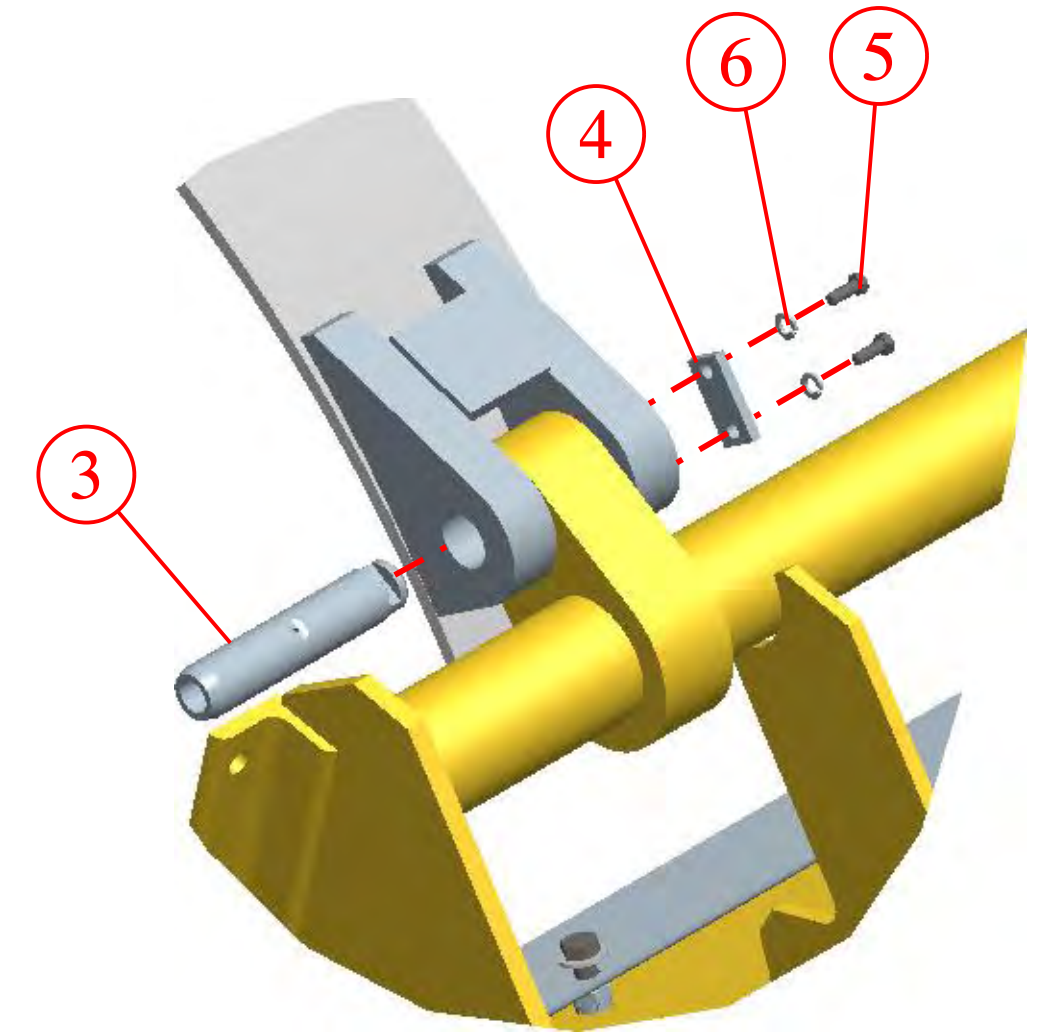
CUSTOMARY: ALL DIMENSIONS IN INCHES					
IMPLIED TOLERANCES		PRODUCT: M7			
FRACTION	± .18	DESCRIPTION: ASSY, BROOM W/STONE DEFLECTORS			
.X	± .06	SIZE	SCALE	DRAWING CODE NUMBER	REV.
.XX	± .03	D	.125	460520	A
.XXX	± .010	ASSEMBLY:-		SHEET 6 OF 9	
PLANE ANGLES ±.1°					

BILL OF MATERIALS						
ITEM NO.	PART NUMBER OR MATERIAL	QTY. REQ.	D T L	PART NAME		DWG SIZE
1	7500-100	1		CYLINDER, STONE DEFLECTOR		
2	B-4704-3	2		PIN, CYLINDER		
3	B-4704-1	4		PIN		
4	A-5200-21	6		KEEPER PLATE		
5	2774521	12		CAPSCREW, HEX HD 5/16 X 3/4		
6	3064467	12		LOCKWASHER, 5/16		
7	AR-400	1	*	PLATE, 1/4 X 12.75 X 15.0		

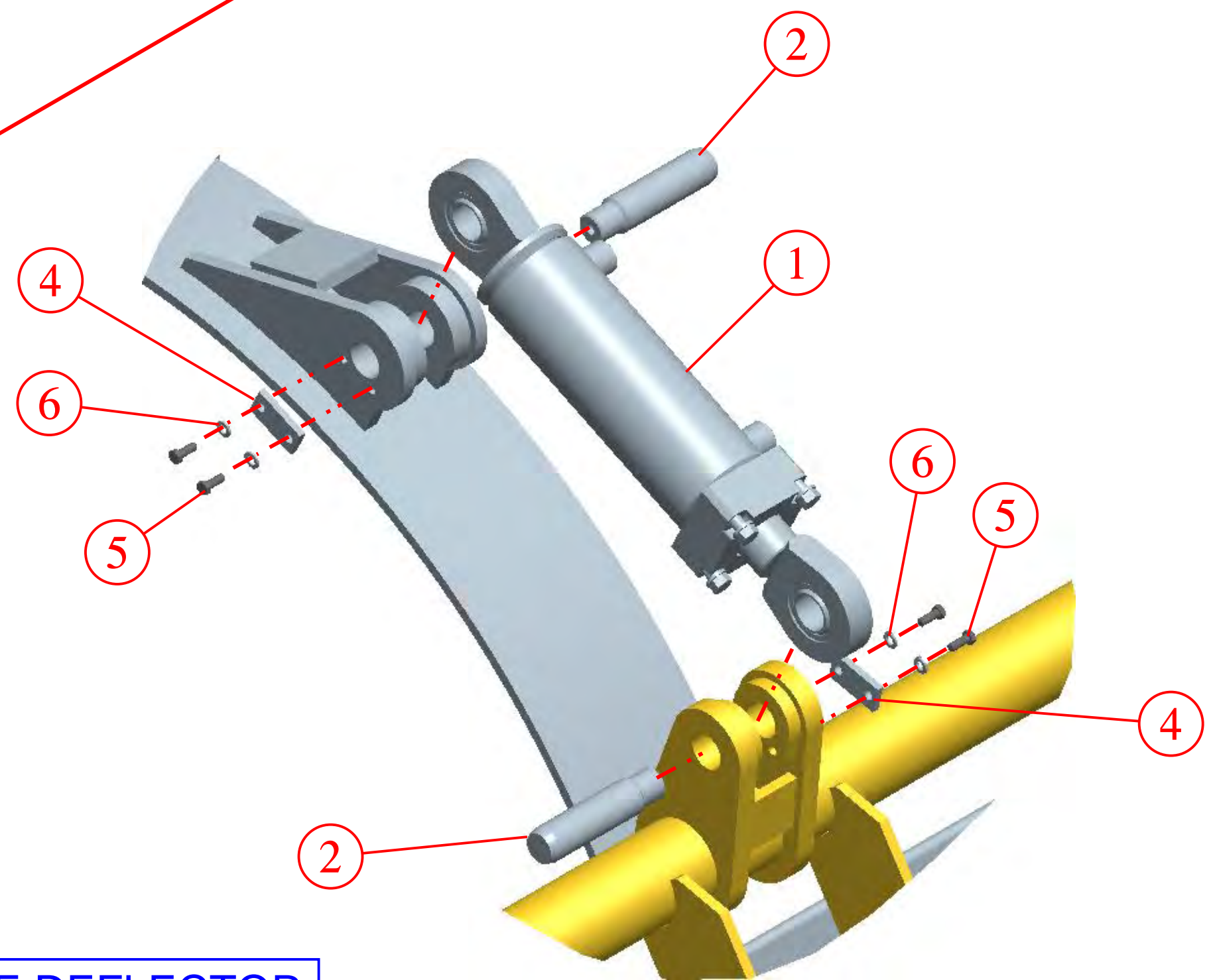


RIGHT PIVOTS ASSY

TILTABLE DEFLECTOR INSTALLATION



LEFT PIVOTS ASSY



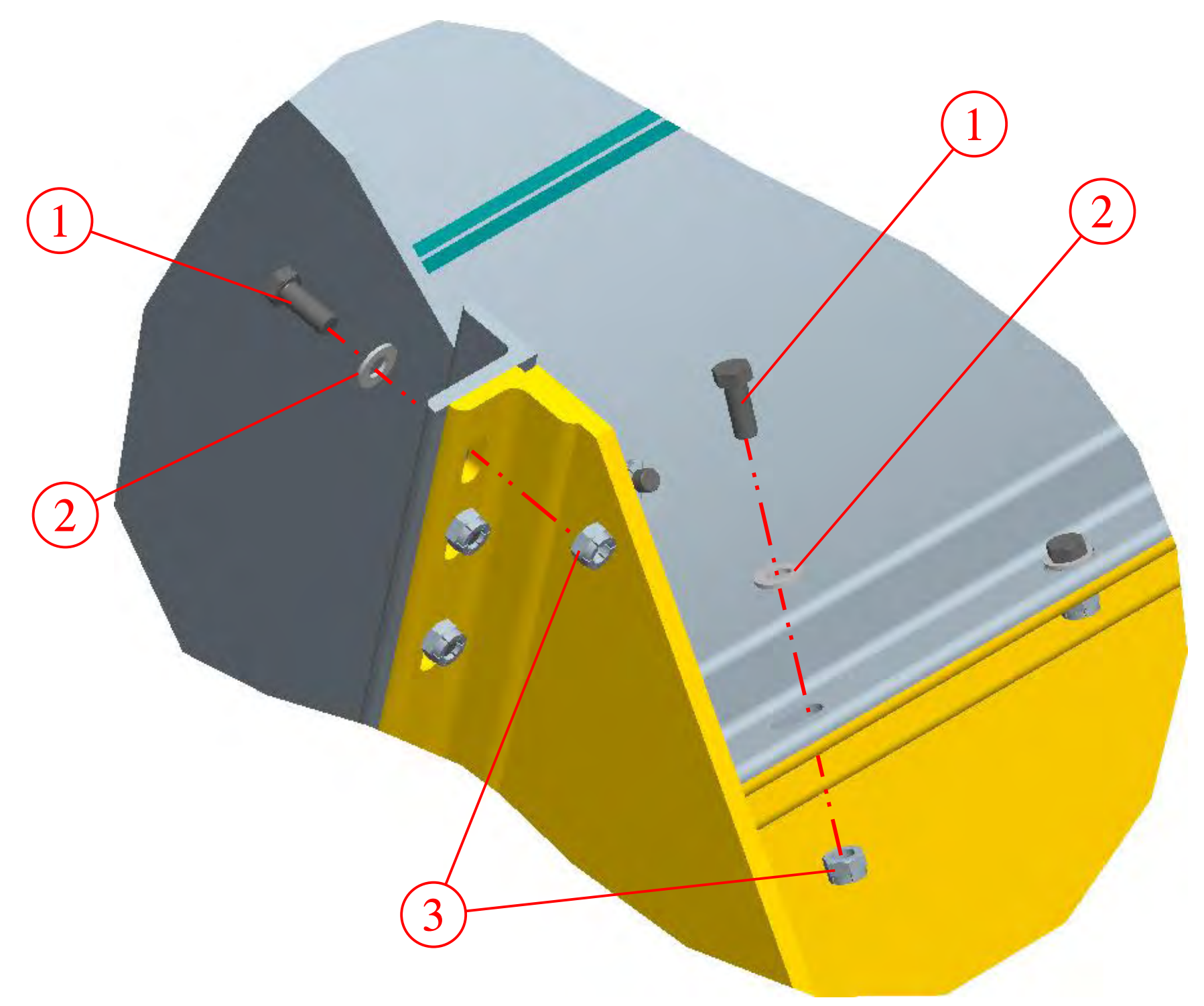
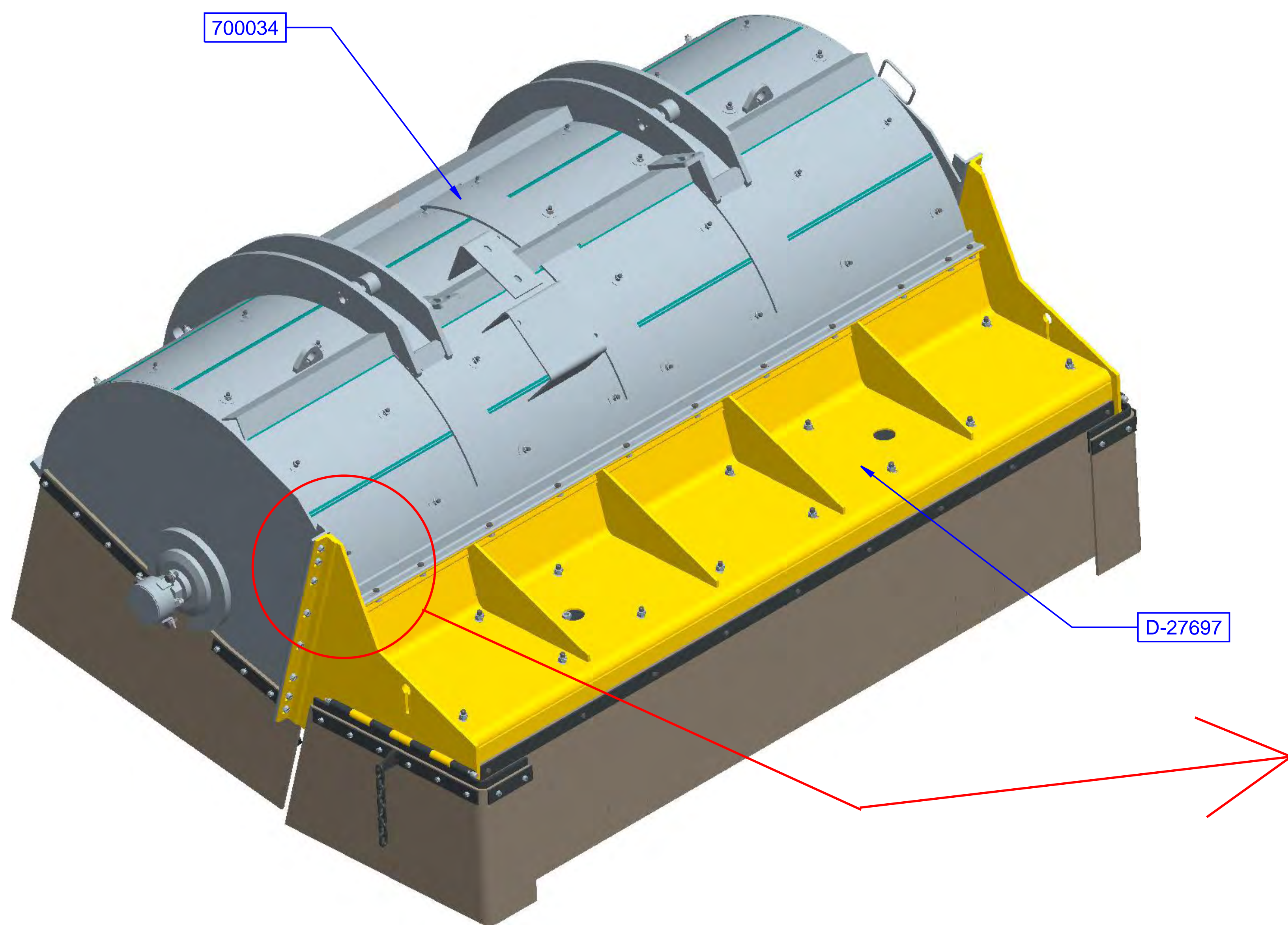
TILTABLE DEFLECTOR CYLINDER ASSY

CUSTOMARY: ALL DIMENSIONS IN INCHES					
IMPLIED TOLERANCES		PRODUCT: M7			
FRACTION	± .18	DESCRIPTION: ASSY, BROOM W/STONE DEFLECTORS			
.X	± .06	SIZE	SCALE	DRAWING CODE NUMBER	REV.
.XX	± .03	D	.125	460520	A
.XXX	± .010	ASSEMBLY:-		SHEET 7 OF 9	
<small>INCHES FINISH UNLESS OTHERWISE STATED</small> <small>PLANE ANGLES ±1°</small>					

REVISION HISTORY LOCATED ON LAST SHEET

BILL OF MATERIALS					
ITEM NO.	PART NUMBER OR MATERIAL	QTY. REQ.	DWG. SIZE	PART NAME	
1	2775291	28		CAPSCREW, HEX HEAD 1/2 X 1-1/4	
2	3060477	28		WASHER, SAE 1/2 HARD'D RC38-45	
3	3042025	28		HEX LOCKNUT 1/2-13 UNC	

NON-TILTABLE
DEFLECTOR
INSTALLATION



CUSTOMARY: ALL DIMENSIONS IN INCHES					
IMPLIED TOLERANCES		PRODUCT: M7			
FRACTION	±	DESCRIPTION: ASSY, BROOM W/STONE DEFLECTORS			
.X	± .06	SIZE	SCALE	DRAWING CODE NUMBER	REV.
.XX	± .03	D	.125	460520	A
.XXX	± .010				
		ASSEMBLY: SHEET 8 OF 9			



REVISION HISTORY
LOCATED ON LAST SHEET

NO. 460520 SHEET NO. 9/9 ALL INFORMATION CONTAINED ON THIS DRAWING IS CONSIDERED TO BE BOTH CONFIDENTIAL AND PROPRIETARY BY NORDCO INC. NO USE OR REPRODUCTION THEREOF MAY BE MADE WITHOUT THE EXPRESS WRITTEN CONSENT OF NORDCO INC.

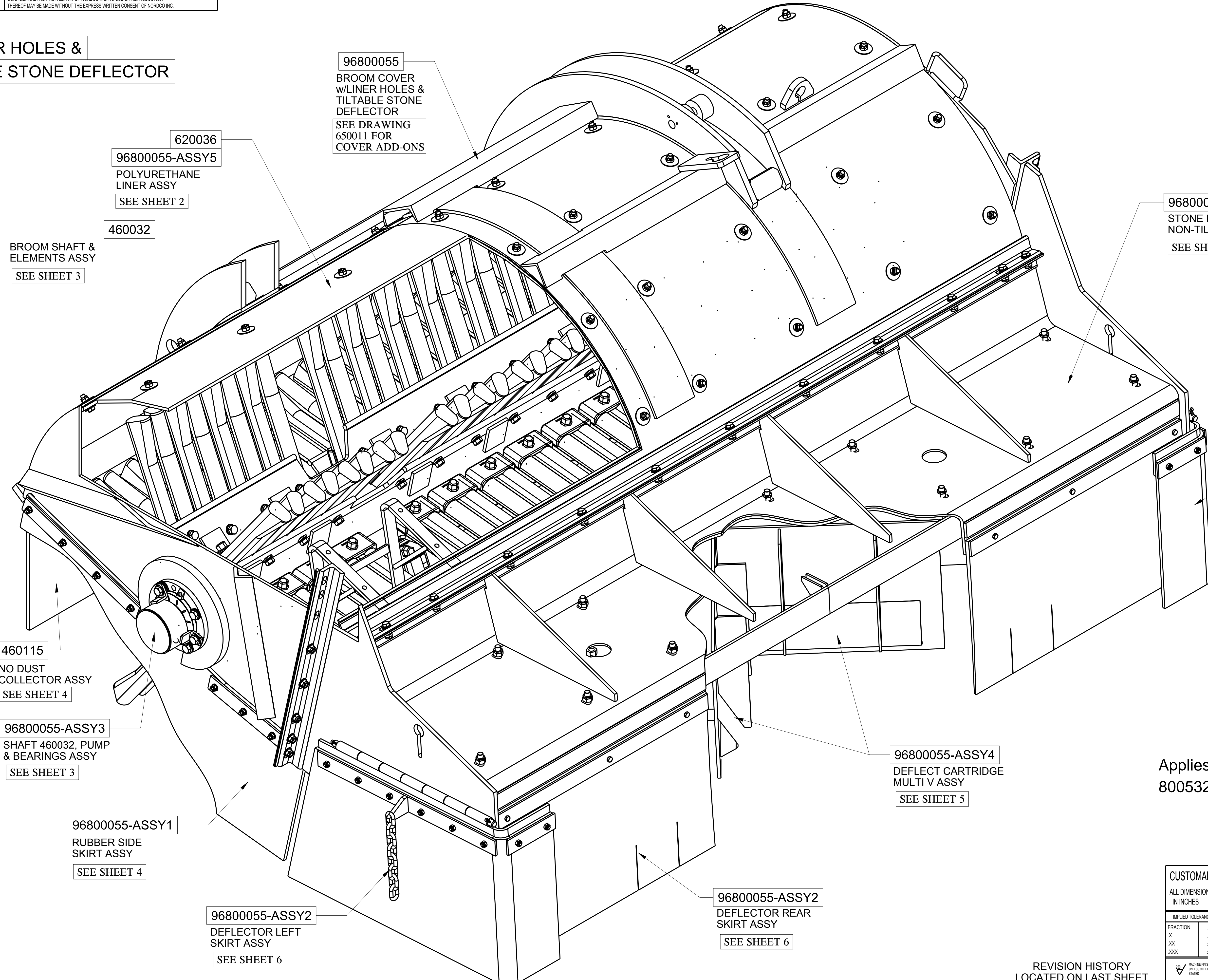
ECO	600183	REV -	
DRAWN BY:	CHECKED BY:	APPROVED BY:	
SWA 01-09-10			
SHEET	CHANGE		
ALL	NEW ISSUE		

ECO	600183	REV A	
DRAWN BY:	CHECKED BY:	APPROVED BY:	
SWA 04-11-11			
SHEET	CHANGE		
1	BROOM w/NON-TILTABLE DEFLECTOR VIEW ADDED		
5	NON-TILTABLE DEFLECTOR w/CARTRIDGE VIEW ADDED		
6	NON-TILTABLE DEFLECTOR w/SKIRTS VIEW ADDED		
7	ITEM 1 CYL 7500-100 WAS C-7500-100		
8	NON-TILTABLE DEFLECTOR INSTALLATION ADDED		
9	REVISION HISTORY WAS ON SHEET 8		

REVISION HISTORY
LOCATED ON LAST SHEET

CUSTOMARY: ALL DIMENSIONS IN INCHES					
IMPLIED TOLERANCES		PRODUCT: M7			
FRACTION	± .18	DESCRIPTION: ASSY, BROOM W/STONE DEFLECTORS			
.X	± .06	SIZE	SCALE	DRAWING CODE NUMBER	REV.
.XX	± .03	D	.125	460520	A
.XXX	± .010				
PLANE ANGLES ±.1°		ASSEMBLY:-		SHEET 9 OF 9	

DIR DRV LINER HOLES & NON-TILTABLE STONE DEFLECTOR
96800055



96800055
 BROOM COVER
 W/LINER HOLES &
 TILTABLE STONE
 DEFLECTOR
 SEE DRAWING
 650011 FOR
 COVER ADD-ONS

620036
 96800055-ASSY5
 POLYURETHANE
 LINER ASSY
 SEE SHEET 2

460032
 BROOM SHAFT &
 ELEMENTS ASSY
 SEE SHEET 3

96800055-ASSY2
 STONE DEFLECTOR,
 NON-TILTABLE
 SEE SHEETS 5,6,7

96800055-ASSY2
 DEFLECTOR RIGHT
 SKIRT ASSY
 SEE SHEET 6

460115
 NO DUST
 COLLECTOR ASSY
 SEE SHEET 4

96800055-ASSY3
 SHAFT 460032, PUMP
 & BEARINGS ASSY
 SEE SHEET 3

96800055-ASSY4
 DEFLECT CARTRIDGE
 MULTI V ASSY
 SEE SHEET 5

96800055-ASSY1
 RUBBER SIDE
 SKIRT ASSY
 SEE SHEET 4

96800055-ASSY2
 DEFLECTOR LEFT
 SKIRT ASSY
 SEE SHEET 6

96800055-ASSY2
 DEFLECTOR REAR
 SKIRT ASSY
 SEE SHEET 6

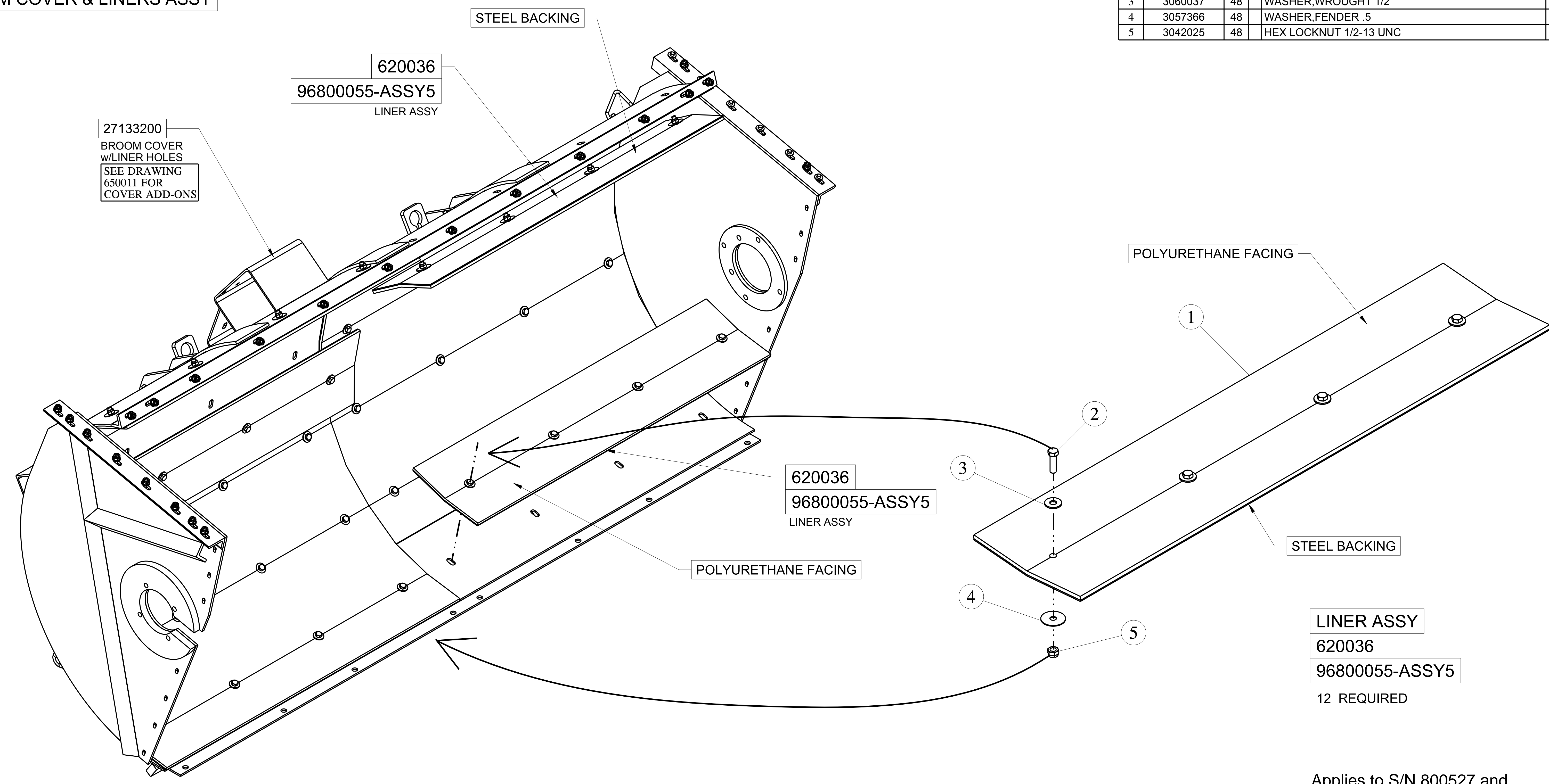
Applies to S/N 800527 and
 800532 and Above only

REVISION HISTORY
 LOCATED ON LAST SHEET

CUSTOMARY: ALL DIMENSIONS IN INCHES					
IMPLIED TOLERANCES		PRODUCT: M7			
FRACTION	± .18	DESCRIPTION: ASSY, BROOM w/STONE DEFLECTORS			
X	± .06	SIZE	SCALE	DRAWING CODE NUMBER	REV.
XX	± .03	D	.125	96800055	B
XXX	± .010	ASSEMBLY:		SHEET 1 OF 8	
PLANE ANGLES 1/4°-1°					

BILL OF MATERIALS				
ITEM NO.	PART NUMBER OR MATERIAL	QTY. REQ.	DWG. SIZE	PART NAME
1	620036	12		INSERT, LINER POLYURETHANE W/STEEL BACKING
2	2775311	48		CAPSCREW, HEX HEAD 1/2 X 1-3/4
3	3060037	48		WASHER, WROUGHT 1/2
4	3057366	48		WASHER, FENDER .5
5	3042025	48		HEX LOCKNUT 1/2-13 UNC

BROOM COVER & LINERS ASSY

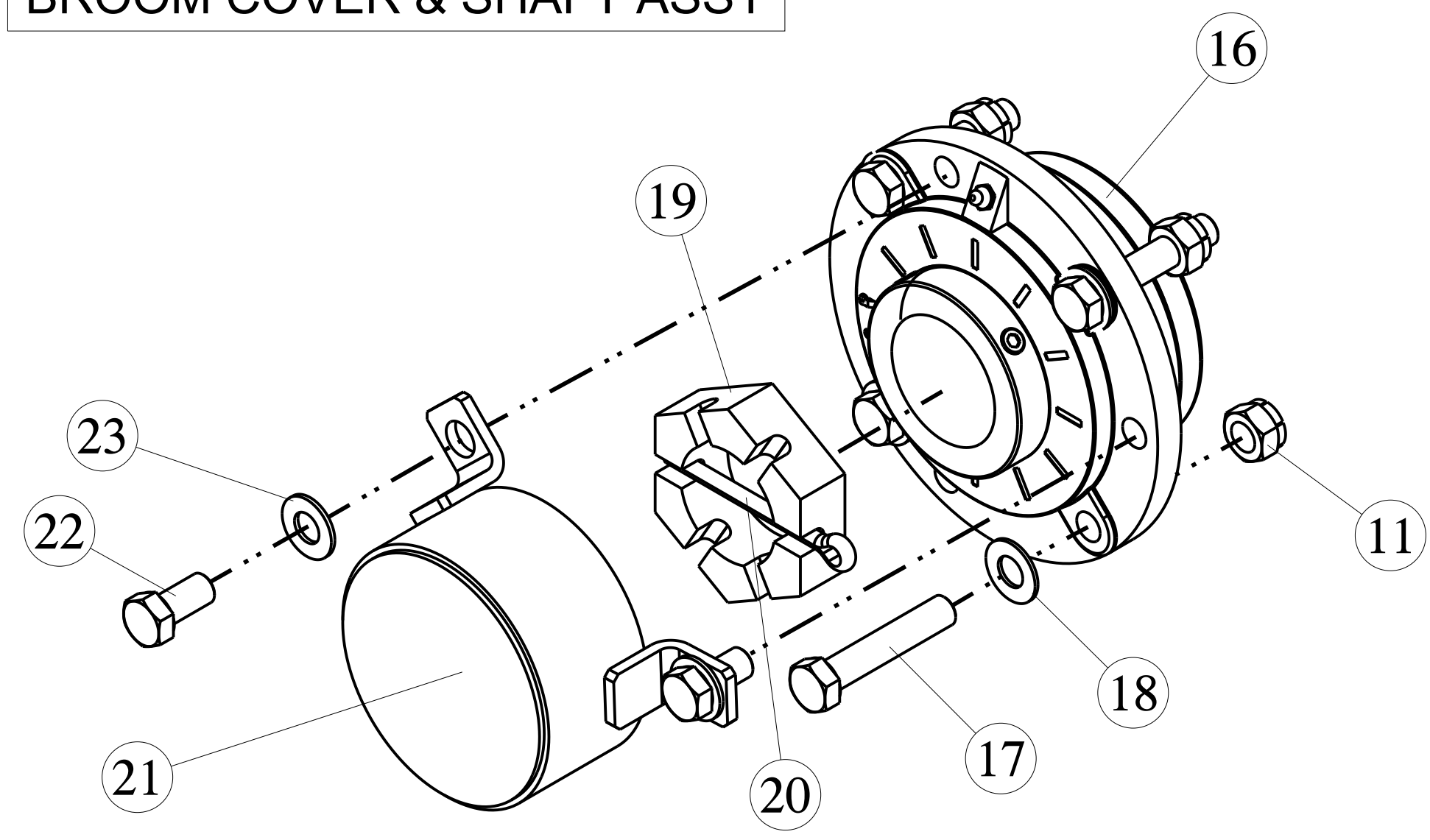


Applies to S/N 800527 and 800532 and Above only

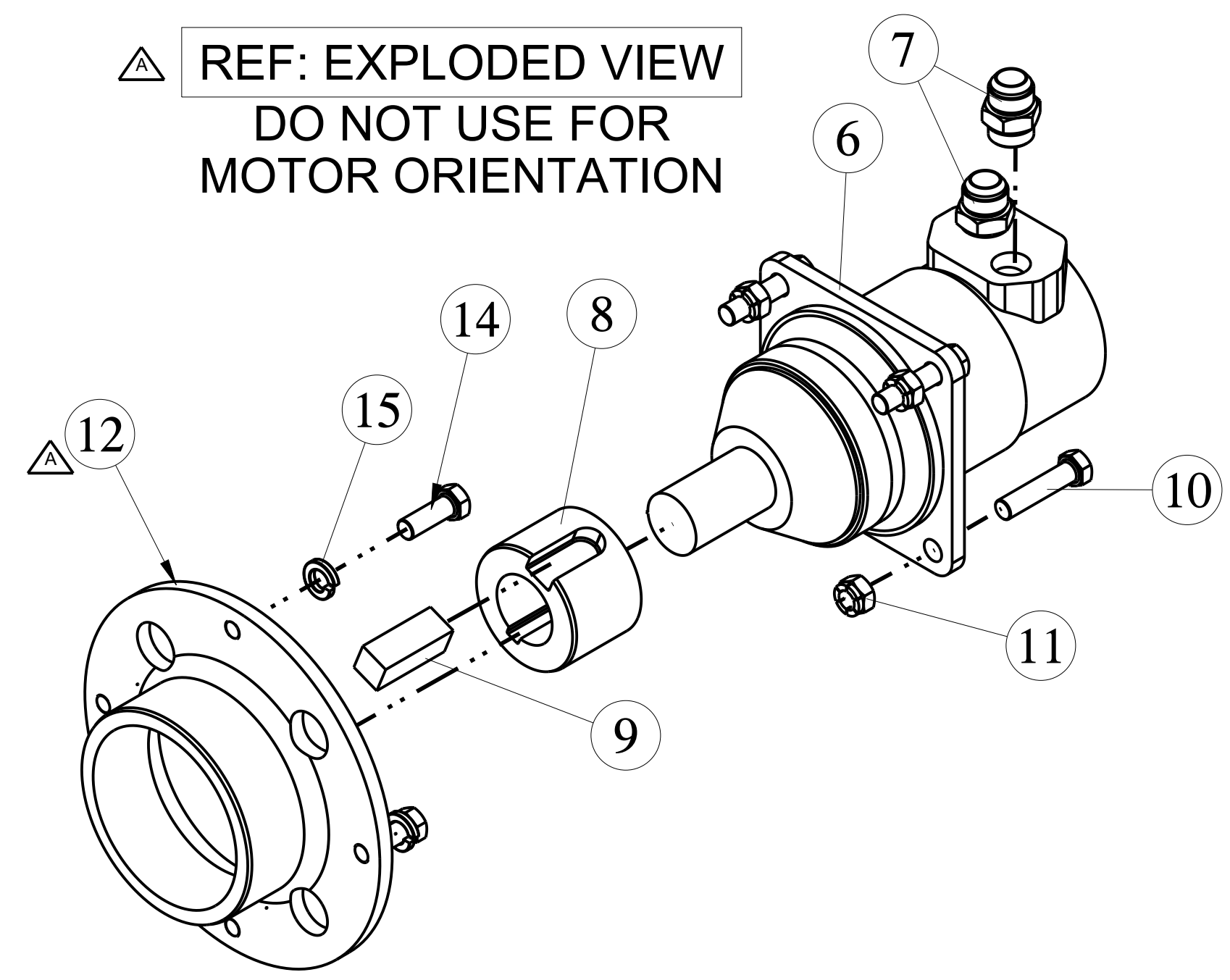
CUSTOMARY: ALL DIMENSIONS IN INCHES					
IMPLIED TOLERANCES		PRODUCT: M7			
FRACTION	± .18	DESCRIPTION: ASSY, BROOM w/STONE DEFLECTORS			
X	± .06	SIZE	SCALE	DRAWING CODE NUMBER	REV.
XX	± .03	D	.125	96800055	B
XXX	± .010	ASSEMBLY:		SHEET 2 OF 8	
<small>UNLESS OTHERWISE STATED</small> 		<small>PLANE ANGLES 45-90°</small>			

REVISION HISTORY LOCATED ON LAST SHEET

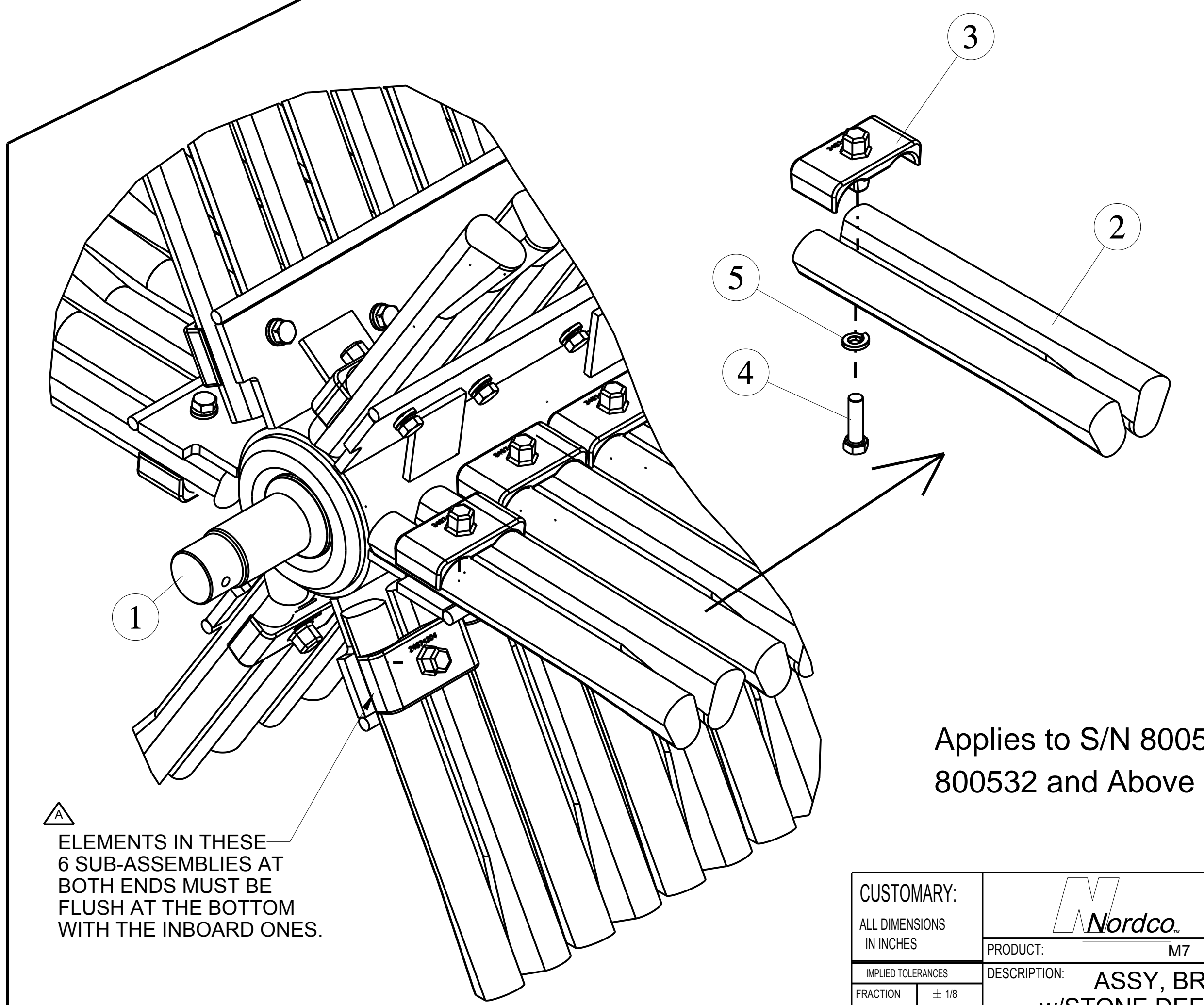
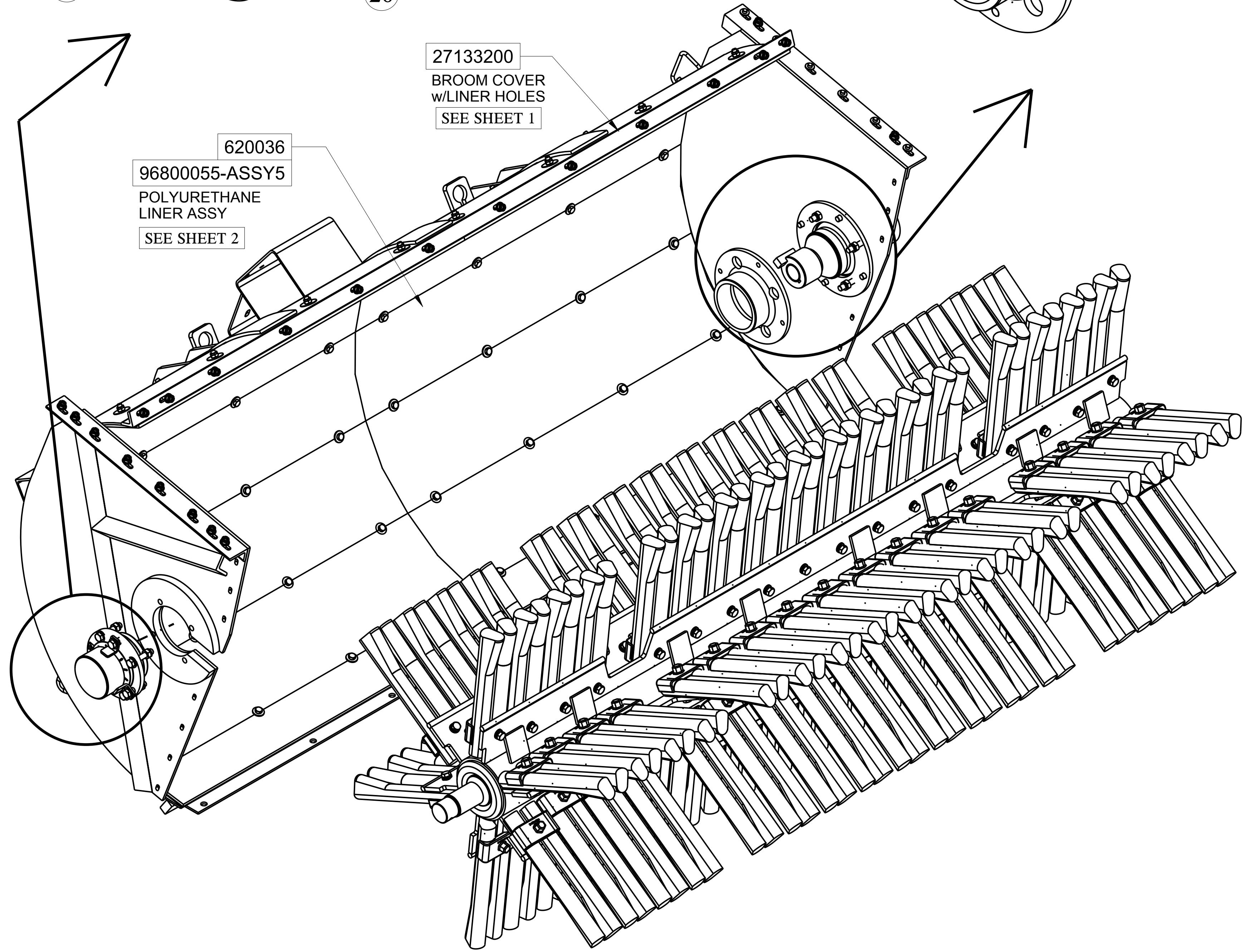
BROOM COVER & SHAFT ASSY



REF: EXPLODED VIEW
DO NOT USE FOR
MOTOR ORIENTATION



BILL OF MATERIALS					
ITEM NO.	PART NUMBER OR MATERIAL	QTY. REQ.	DWG. SIZE	PART NAME	DWG. SIZE
1	700033	1		SHAFT,DIRECT DRIVE WELD'T	
2	31460001	204		ELEMENT, BROOM Ø1.94 x 18"	
3	24574204	102		CLAMP, TAPPED HOLE	
4	2775826	102		CPSCR HX .625X2.25	
5	3065922	102		WASHER,LOCK .625 HVY DUTY	
6	50230048	1		MOTOR,HYDRAULIC 4.9 CU IN/REV	
7	2076275	2		ADAPTER, -16 37DEG X -16 O-RING	
8	27038450	1		CPLG,RIGID SLEEVE 2-1/4 SHAFT	
9	620034	1		KEY, 1 X 1 X 2.75	
10	2775831	4		CPSCR HX .625X2.5	
11	3042028	8		LOCNUT HEX 5/8-11	
12	78490015	1		SUPPORT,BROOM ELEMENT SHAFT	
13					
14	2775811	4		CPSCR HX .625X1.75	
15	3065922	4		WASHER,LOCK .625 HVY DUTY	
16	620029	1		BEARING,ROLLER SPHERICAL	
17	2775846	4		CPSCR HX .625X3.25	
18	3060483	8		WASHER SAE .62 HRDEN C38-45	
19	700066	1		NUT,CASTLE 7301 MACHINED	
20	3071035	1		COTTER PIN .375 X 4.00	
21	700064	1		COVER,BROOM SHAFT	
22	2775791	3		CAPSCREW, HEX HEAD 5/8 X 1-1/4	
23	3065922	3		WASHER, SAE 5/8	



ELEMENTS IN THESE
6 SUB-ASSEMBLIES AT
BOTH ENDS MUST BE
FLUSH AT THE BOTTOM
WITH THE INBOARD ONES.

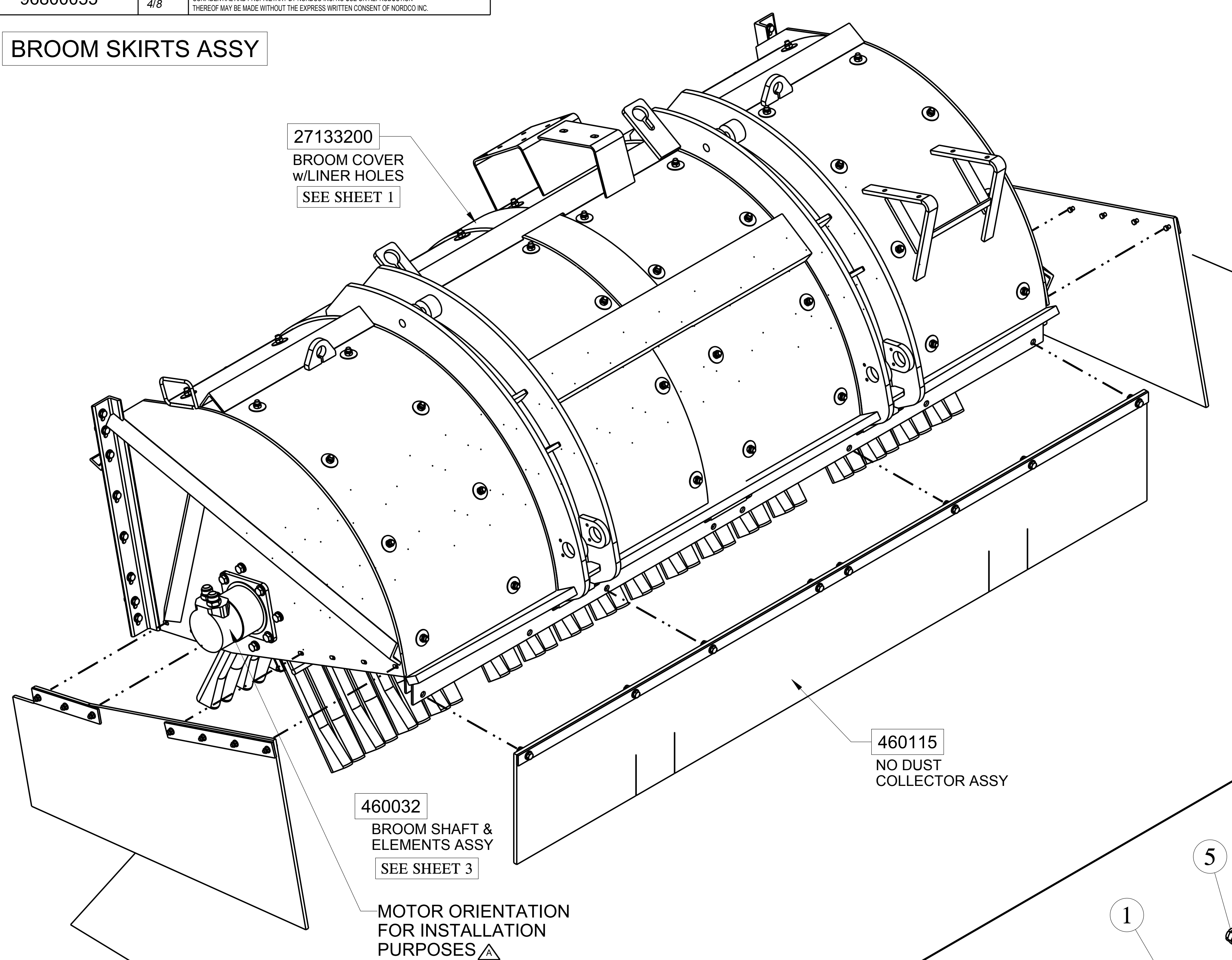
Applies to S/N 800527 and
800532 and Above only

460032 - BROOM SHAFT ASSY

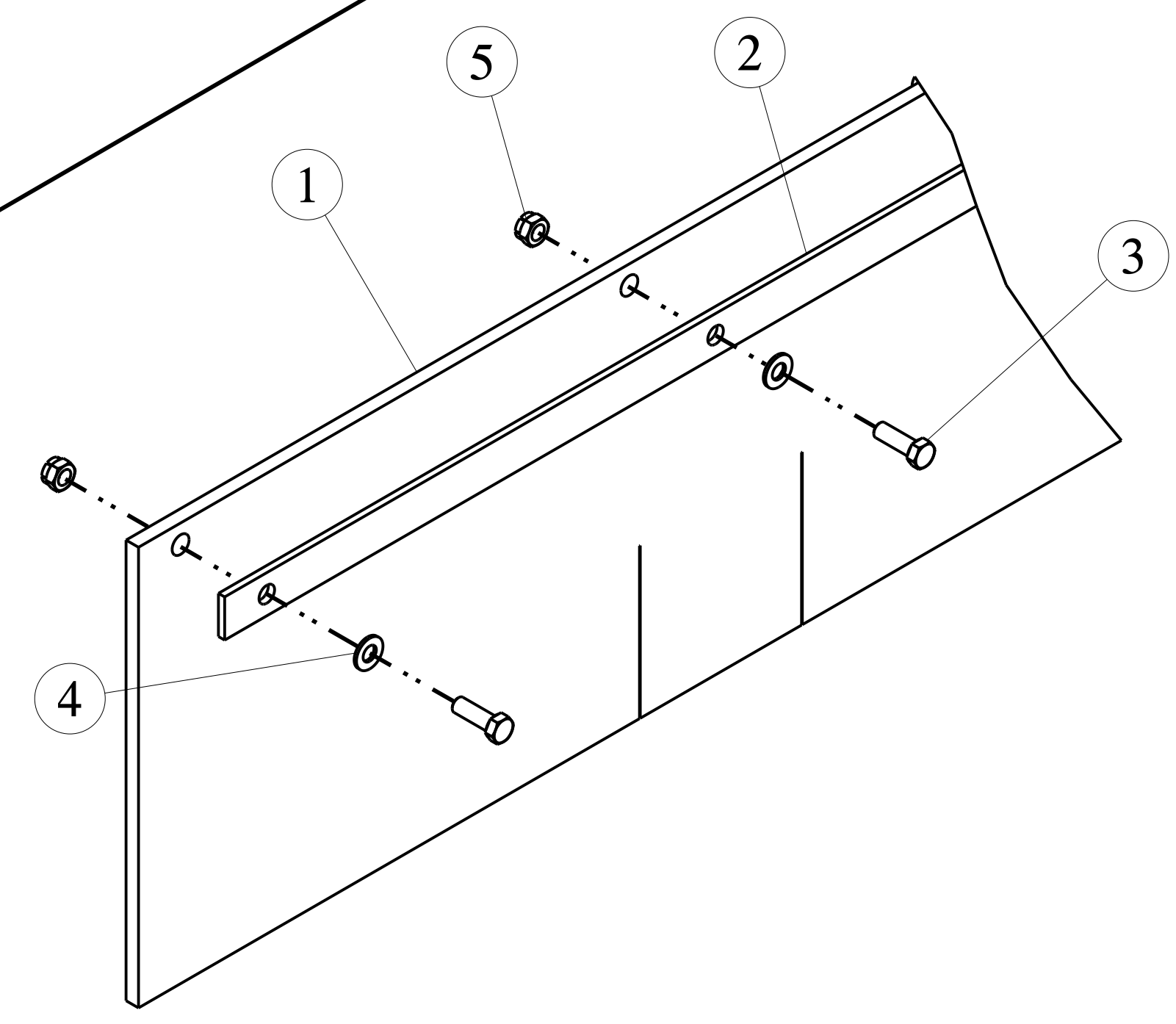
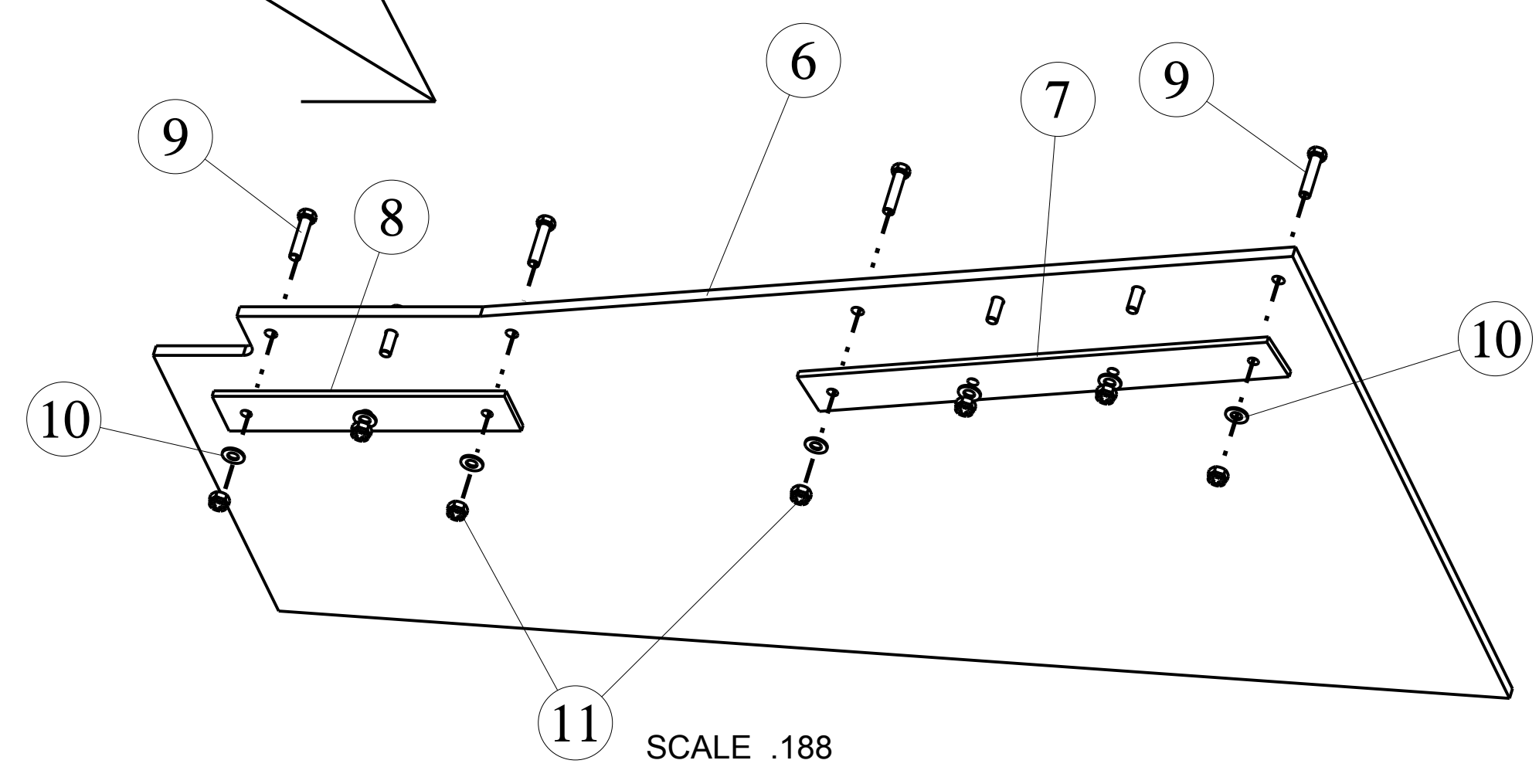
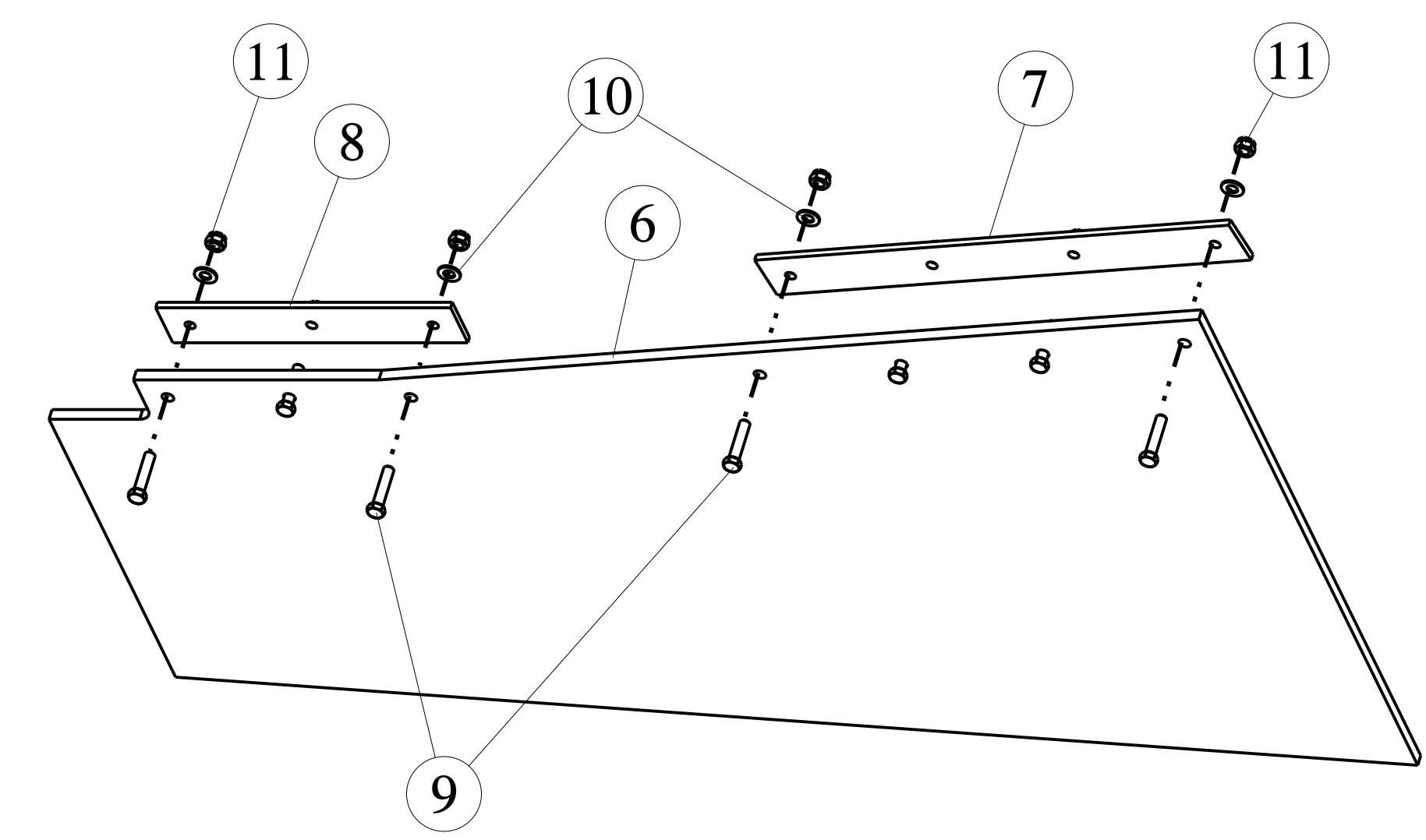
REVISION HISTORY
LOCATED ON LAST SHEET

CUSTOMARY: ALL DIMENSIONS IN INCHES				THIRD ANGLE PROJECTION	
IMPLIED TOLERANCES		PRODUCT: M7			
FRACTION	± .18	DESCRIPTION: ASSY, BROOM w/STONE DEFLECTORS			
X	± .06	SIZE	SCALE	DRAWING CODE NUMBER	REV.
XX	± .03	D	.125	96800055	B
XXX	± .010	ASSEMBLY: SHEET 3 OF 8			
<small>SEE INCHES FROM UNLESS OTHERWISE STATED</small>		<small>PLANE ANGLES 45-90°</small>			

BROOM SKIRTS ASSY



BILL OF MATERIALS					
ITEM NO.	PART NUMBER OR MATERIAL	QTY. REQ.	DWG. SIZE	PART NAME	DWG. SIZE
1	A-40889	1		RUBBER RETAINER	
2	B-40888	1		RUBBER SKIRT	
3	2775301	8		CAPSCREW, HEX HEAD 1/2 X 1-1/2	
4	3060477	20		WASHER, SAE 1/2 HARD'D RC38-45	
5	3042025	68		HEX LOCKNUT 1/2-13 UNC	
6	680028	2		CONVEYOR BELT, 7/16 X 25-1/2 X 46-1/4	
7	A-33795	2		RUBBER RETAINER	
8	A-33794	2		RUBBER RETAINER	
9	2774811	14		CAPSCREW, HEX HEAD 3/8 X 1-3/4	
10	3060470	14		WASHER, SAE 3/8	
11	3042020	14		HEX LOCKNUT 3/8-16 UNC ZINC PLATED	



460115 - NO DUST COLLECTOR ASSY

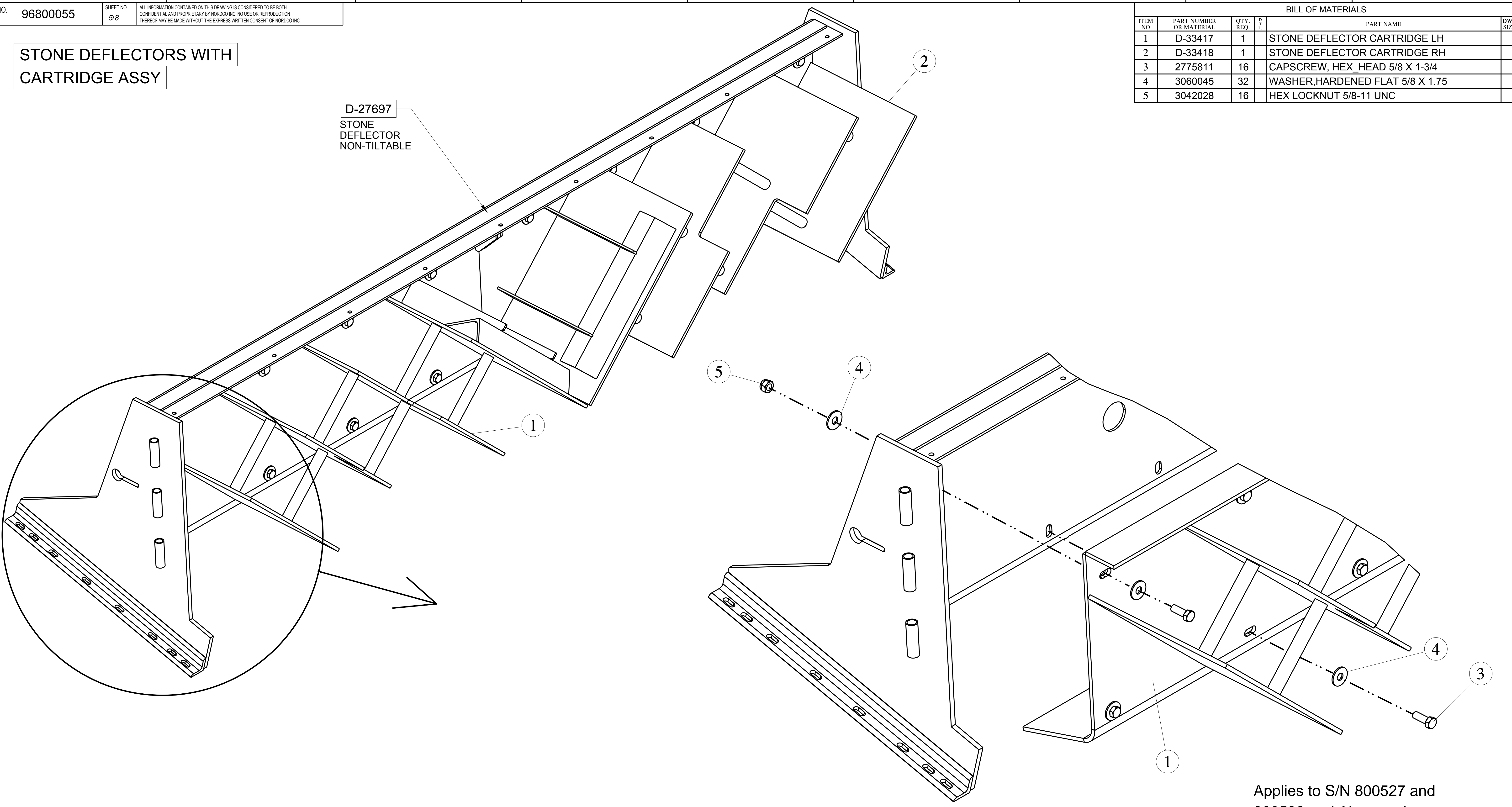
Applies to S/N 800527 and 800532 and Above only

REVISION HISTORY LOCATED ON LAST SHEET

CUSTOMARY: ALL DIMENSIONS IN INCHES					
IMPLIED TOLERANCES		PRODUCT: M7			
FRACTION	± .18	DESCRIPTION: ASSY, BROOM w/STONE DEFLECTORS			
X	± .06	SIZE	SCALE	DRAWING CODE NUMBER	REV.
XX	± .03	D	.125	96800055	B
XXX	± .010	ASSEMBLY: SHEET 4 OF 8			
		PLANE ANGLES \pm .1°			

STONE DEFLECTORS WITH CARTRIDGE ASSY

BILL OF MATERIALS					
ITEM NO.	PART NUMBER OR MATERIAL	QTY. REQ.	D T L	PART NAME	DWG SIZE
1	D-33417	1		STONE DEFLECTOR CARTRIDGE LH	
2	D-33418	1		STONE DEFLECTOR CARTRIDGE RH	
3	2775811	16		CAPSCREW, HEX_HEAD 5/8 X 1-3/4	
4	3060045	32		WASHER,HARDENED FLAT 5/8 X 1.75	
5	3042028	16		HEX LOCKNUT 5/8-11 UNC	

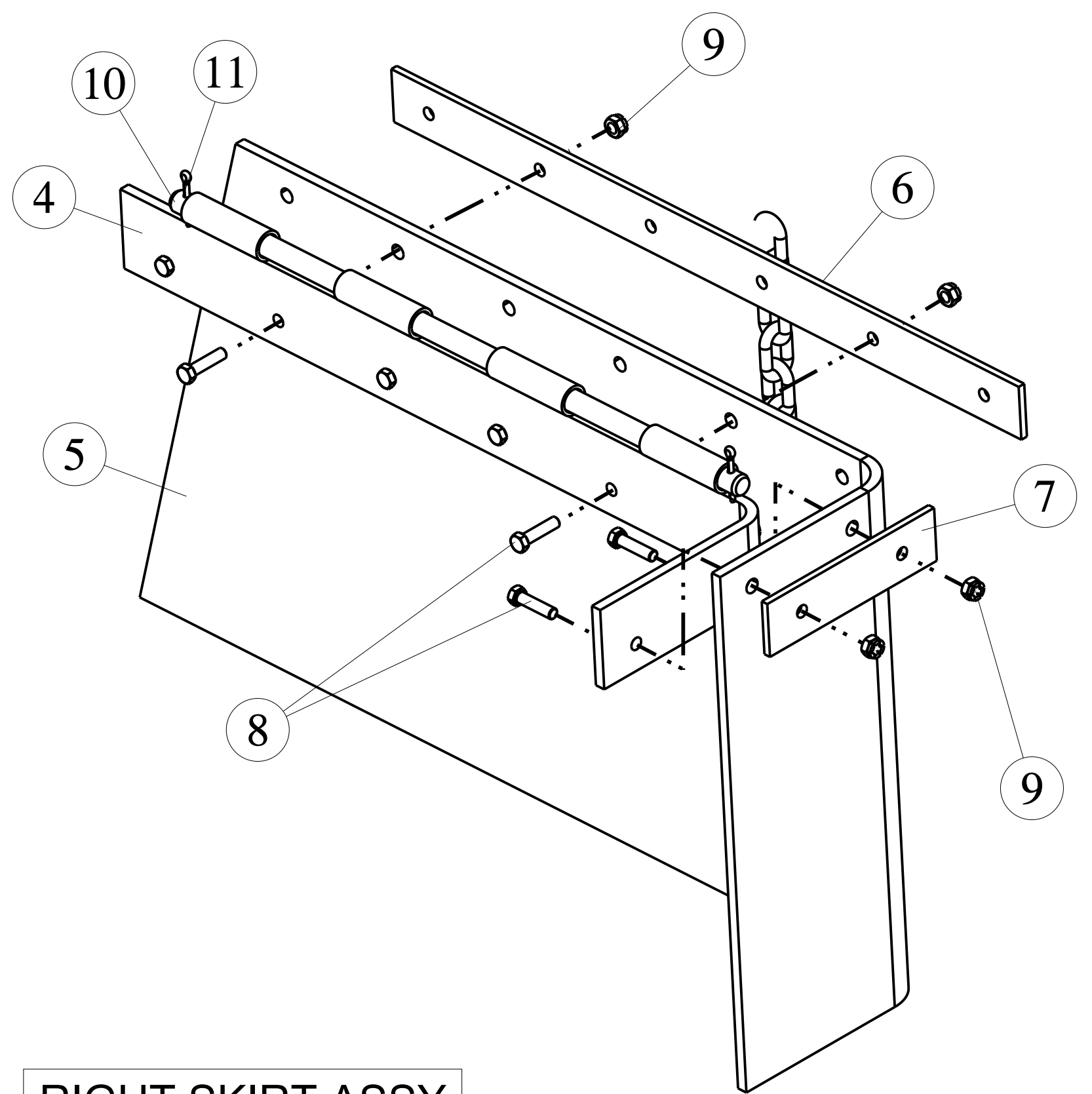
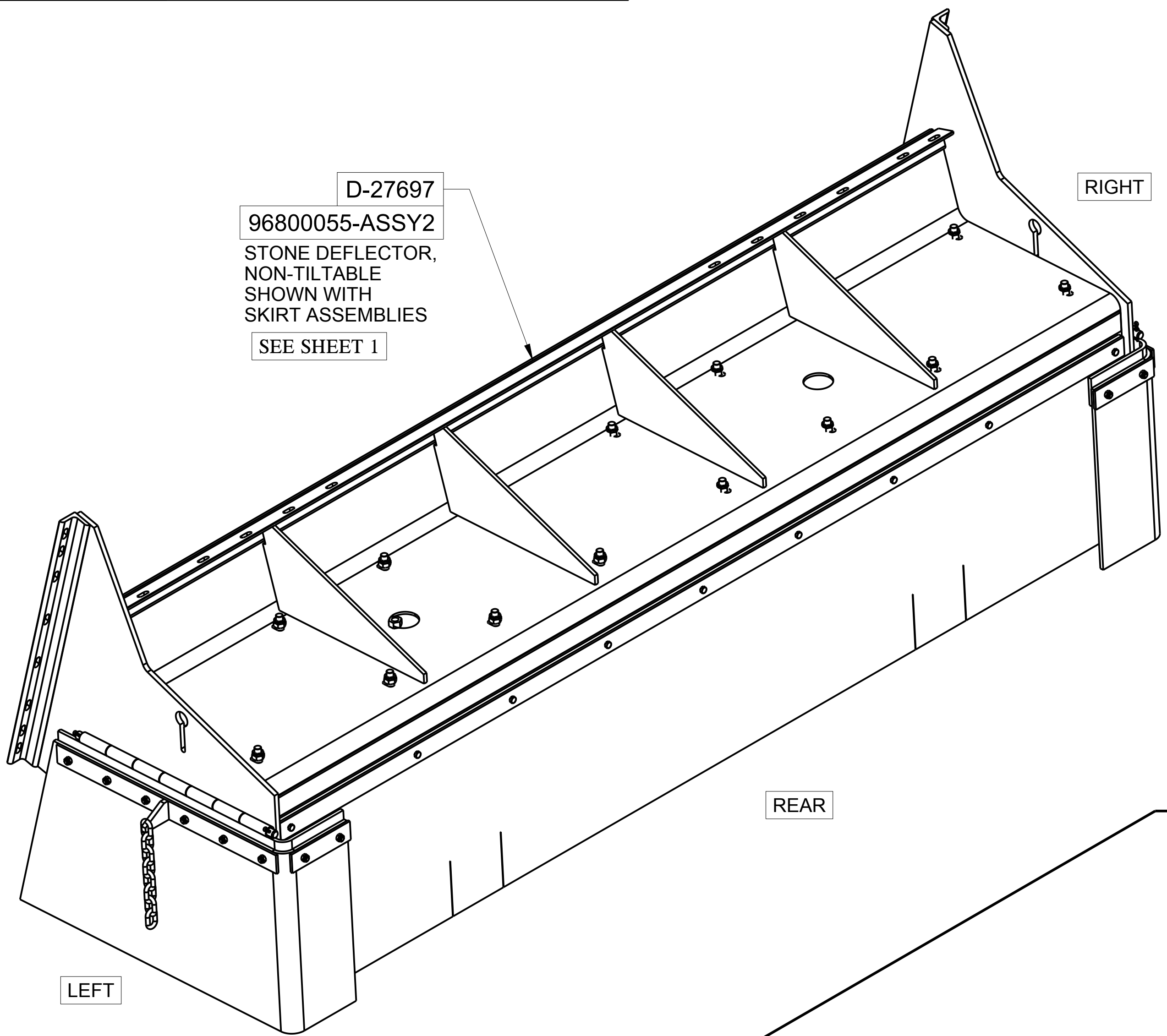


Applies to S/N 800527 and 800532 and Above only

CUSTOMARY: ALL DIMENSIONS IN INCHES					
IMPLIED TOLERANCES		PRODUCT: M7			
FRACTION	± .18	DESCRIPTION: ASSY, BROOM w/STONE DEFLECTORS			
X	± .06	SIZE	SCALE	DRAWING CODE NUMBER	REV.
XX	± .03	D	.125	96800055	B
XXX	± .010				
		ASSEMBLY: SHEET 5 OF 8			

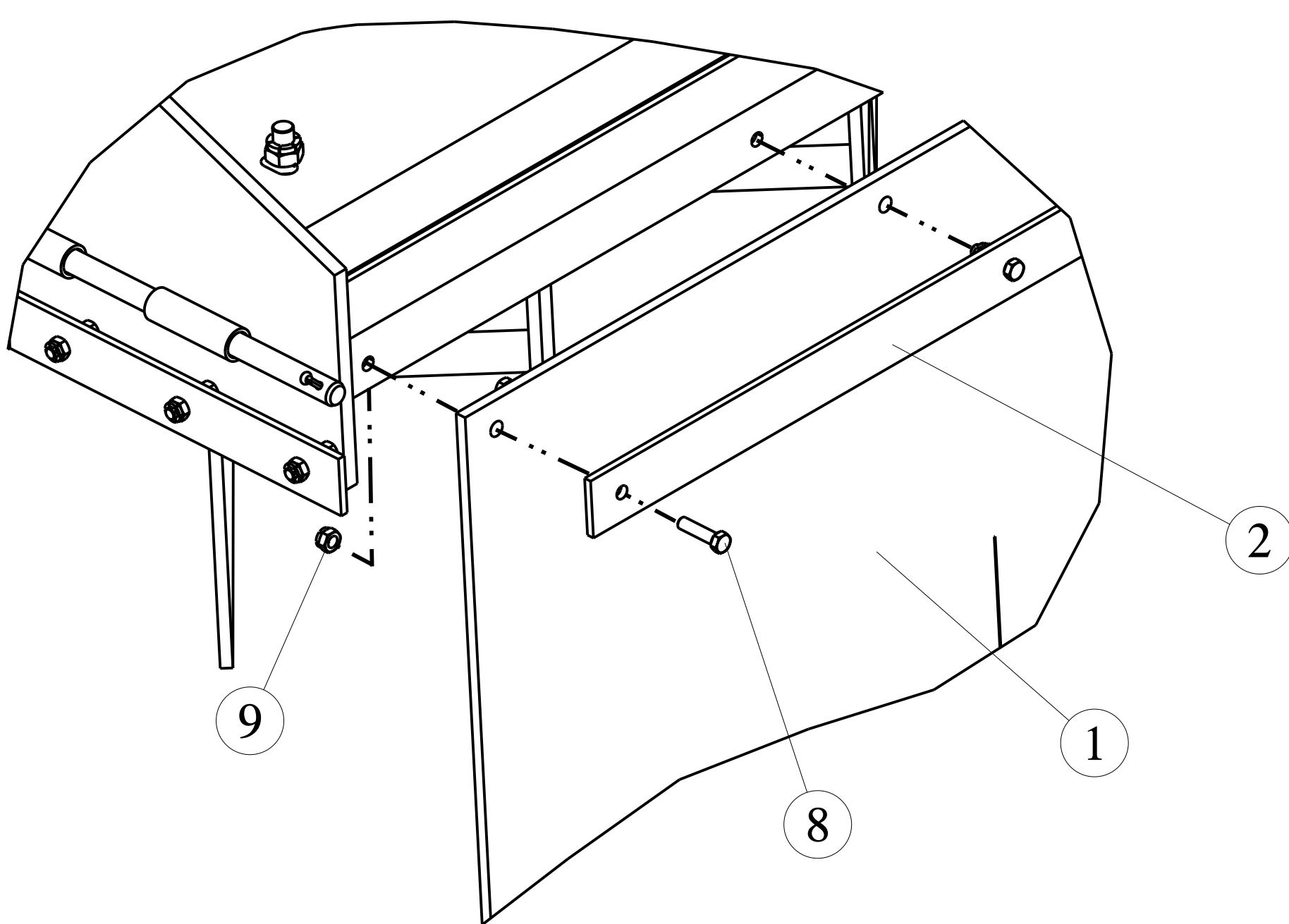
REVISION HISTORY LOCATED ON LAST SHEET

BILL OF MATERIALS					
ITEM NO.	PART NUMBER OR MATERIAL	QTY. REQ.	DWG. SIZE	PART NAME	DWG. SIZE
1	B-27684	1		SKIRT,RUBBER	
2	A-27682	1		RETAINER,SKIRT RUBBER 108.5 LG	
3	C-33345	1		ASSY,HINGE PLATE LH	
4	C-33346	1		ASSY,HINGE PLATE RH	
5	B-27679	2		SKIRT,CORNER RUBBER	
6	B-25237	2		ASSY,RETAINER SKIRT RUBBER	
7	A-25214	2		RETAINER,SKIRT CORNER RUBBER	
8	2774801	25		CAPSCREW, HEX HEAD 3/8 X 1-1/2	
9	3042020	25		HEX LOCKNUT 3/8-16 UNC ZINC PLATED	
10	A-25206	2		PIN, HINGE PLATE ASSY	
11	3070623	4		COTTER PIN .188 X 1.50	

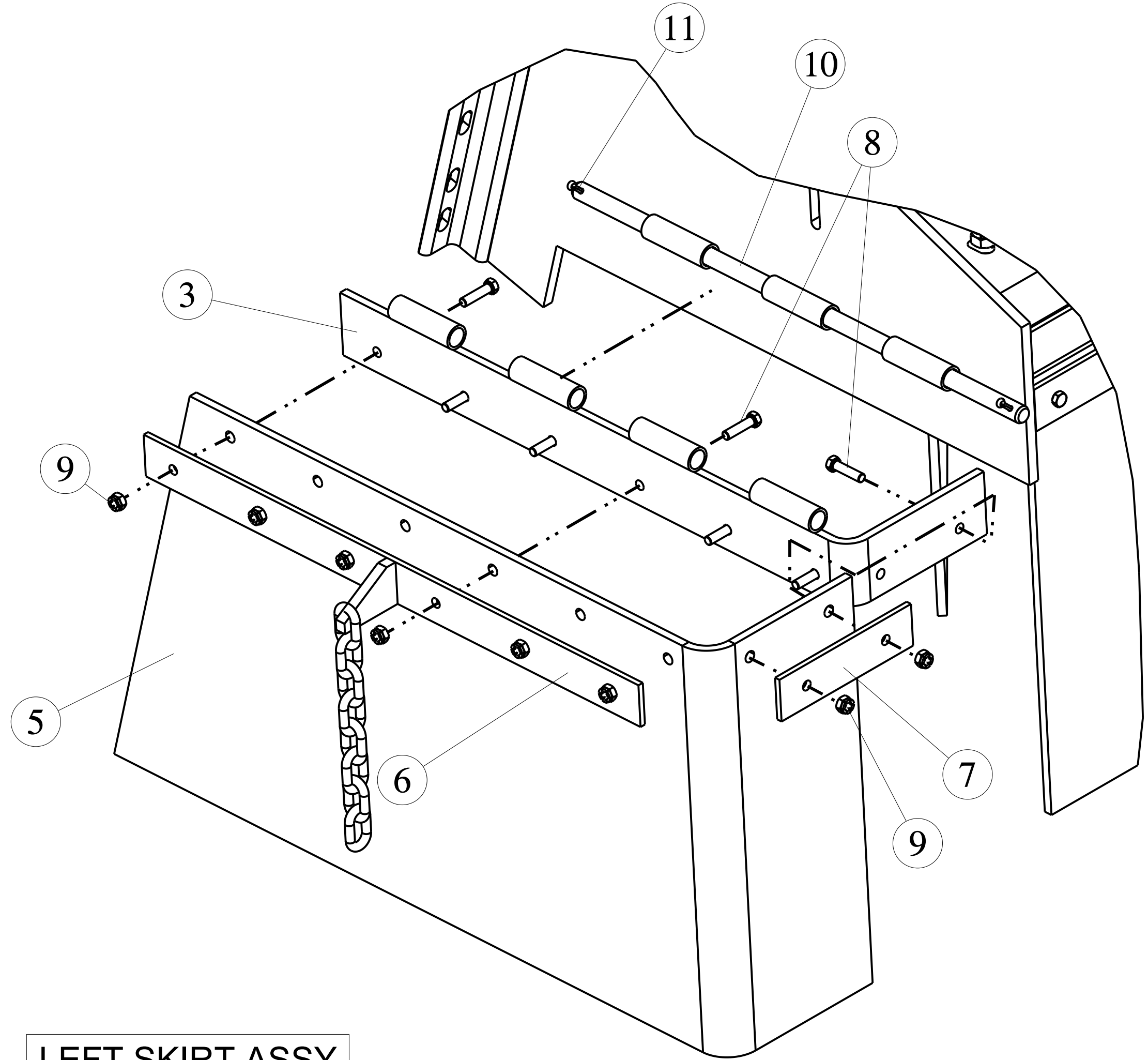


RIGHT SKIRT ASSY

STONE DEFLECTOR W/ SKIRTS ASSY



REAR SKIRT ASSY



LEFT SKIRT ASSY

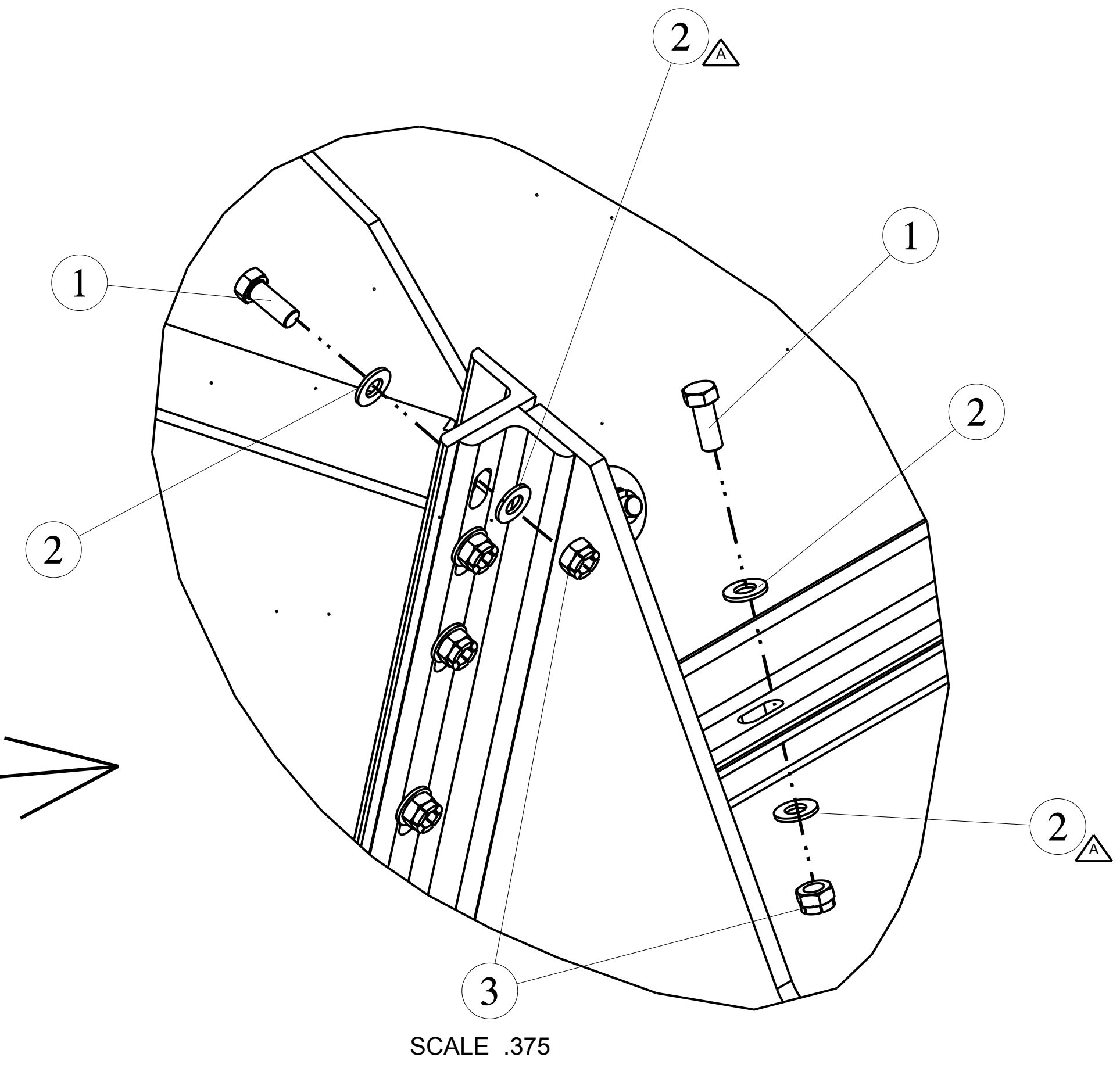
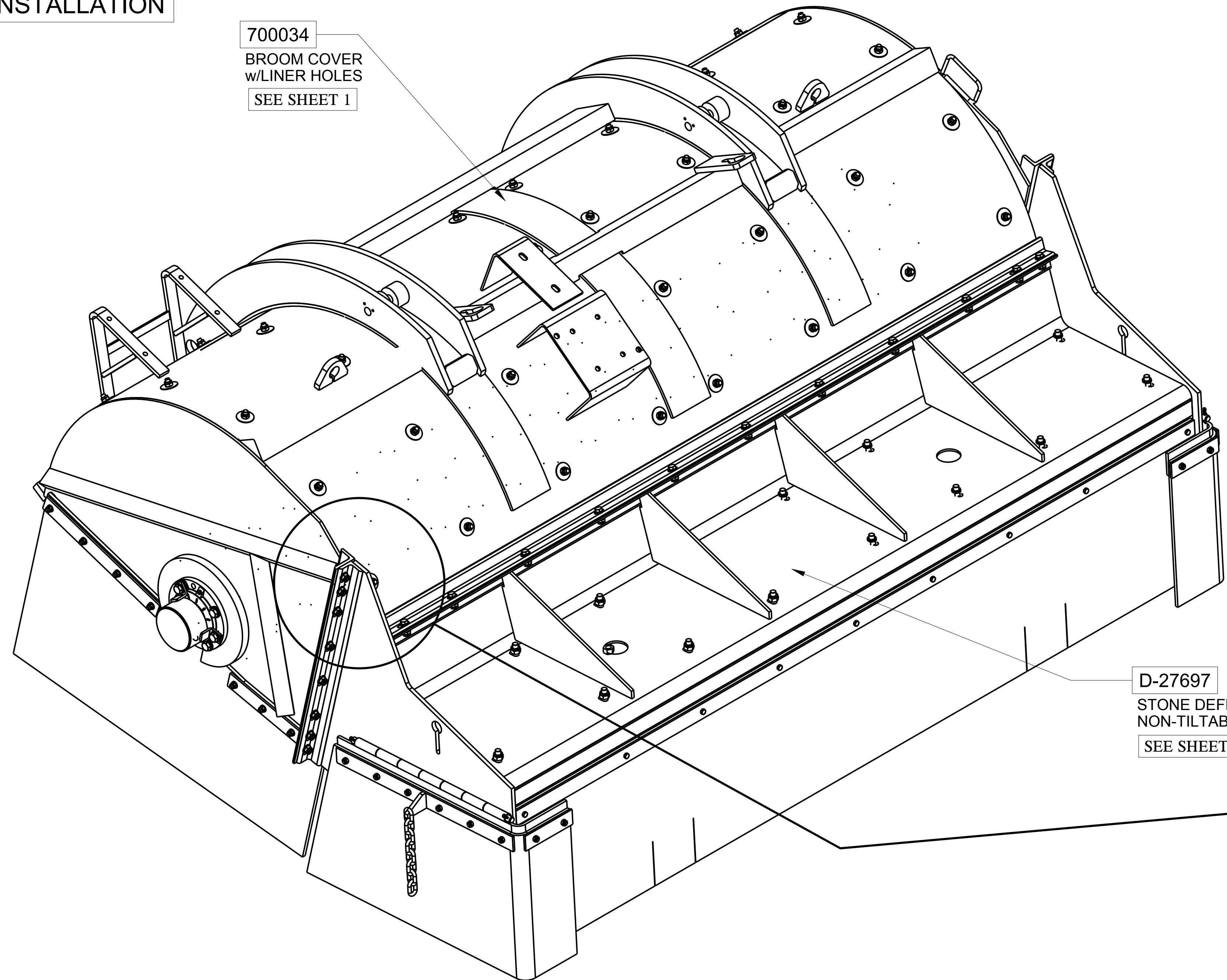
Applies to S/N 800527 and 800532 and Above only

REVISION HISTORY LOCATED ON LAST SHEET

CUSTOMARY: ALL DIMENSIONS IN INCHES					
IMPLIED TOLERANCES		PRODUCT: M7			
FRACTION	± .18	DESCRIPTION: ASSY, BROOM w/STONE DEFLECTORS			
X	± .06	SIZE	SCALE	DRAWING CODE NUMBER	REV.
XX	± .03	D	.125	96800055	B
XXX	± .010	ASSEMBLY:-		SHEET 6 OF 8	
PLANE ANGLES 45-90°					

BILL OF MATERIALS					
ITEM NO.	PART NUMBER OR MATERIAL	QTY. REQ.	DWG. SIZE	PART NAME	DWG. SIZE
1	2775291	28		CAPSCREW, HEX HEAD 1/2 X 1-1/4	
2	3060477	56		WASHER, SAE 1/2 HARD'D RC38-45	
3	3042025	28		HEX LOCKNUT 1/2-13 UNC	

**NON-TILTABLE
DEFLECTOR
INSTALLATION**



Applies to S/N 800527 and
800532 and Above only

REVISION HISTORY
LOCATED ON LAST SHEET

CUSTOMARY: ALL DIMENSIONS IN INCHES					
IMPLIED TOLERANCES		PRODUCT: M7			
FRACTION	± .18	DESCRIPTION: ASSY, BROOM w/STONE DEFLECTORS			
X	± .06	SIZE	SCALE	DRAWING CODE NUMBER	REV.
XX	± .03	D	.125	96800055	B
XXX	± .010	ASSEMBLY:-		SHEET 7	OF 8
<small>SEE INCHES FINISH UNLESS OTHERWISE STATED</small>		<small>PLANE ANGLES 45-90°</small>			

ECO	600607	REV -	
DRAWN BY:	CHECKED BY:	APPROVED BY:	
SWA			
04-30-12			
SHEET	CHANGE		
ALL	NEW ISSUE		

ECO	600812	REV A	
DRAWN BY:	CHECKED BY:	APPROVED BY:	
SWA	CP		
12-06-12	12-07-12		
SHEET	CHANGE		
3	EXPLODED VIEW REF NOTE ADDED. ITEM 12 WAS 78490015 ITEM 13 REMOVED WAS 63192570, WEAR RING BROOM ASSY ELEMENT ALIGNMENT NOTE ADDED.		
4	MOTOR ORIENTATION NOTE ADDED		
7	ITEM 2 QTY 56 WAS 28.		

ECO	600893	REV B	
DRAWN BY:	CHECKED BY:	APPROVED BY:	
CP			
15-JAN-13			
SHEET	CHANGE		
3	ITEM 10, 2775831 WAS 2775836		

Applies to S/N 800527 and 800532 and Above only

CUSTOMARY: ALL DIMENSIONS IN INCHES					
IMPLIED TOLERANCES		PRODUCT: M7			
FRACTION	± .18	DESCRIPTION: ASSY, BROOM w/STONE DEFLECTORS			
X	± .06				
XX	± .03				
XXX	± .010				
FINISH: MACHINE FINISH UNLESS OTHERWISE STATED		SIZE: D .125	SCALE:	DRAWING CODE NUMBER: 96800055	REV: B
PLANE ANGLES 90-179		ASSEMBLY:-		SHEET 8 OF 8	

REVISION HISTORY LOCATED ON LAST SHEET

FIGURE 15-2. Direct Drive Broom Hydraulic Lockups

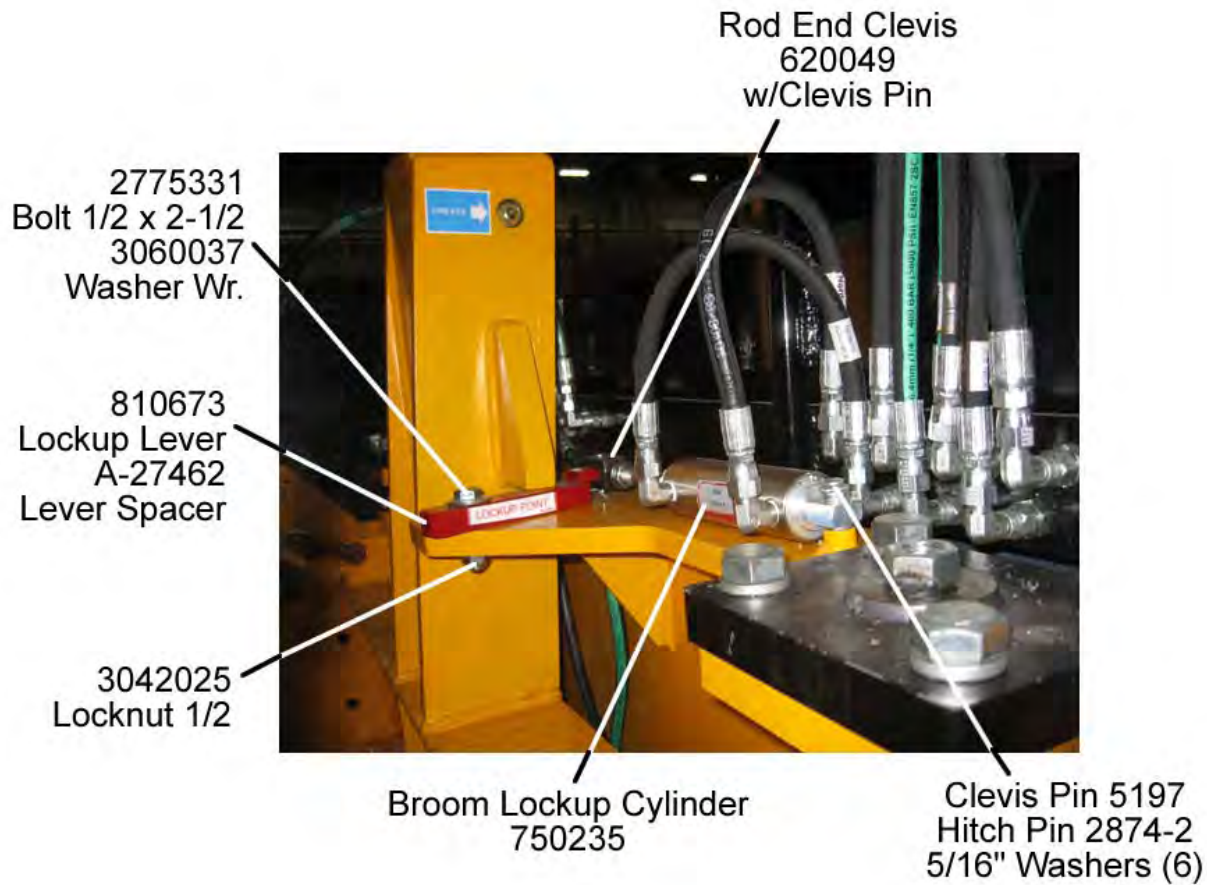


FIGURE 17-1. Snow Wings

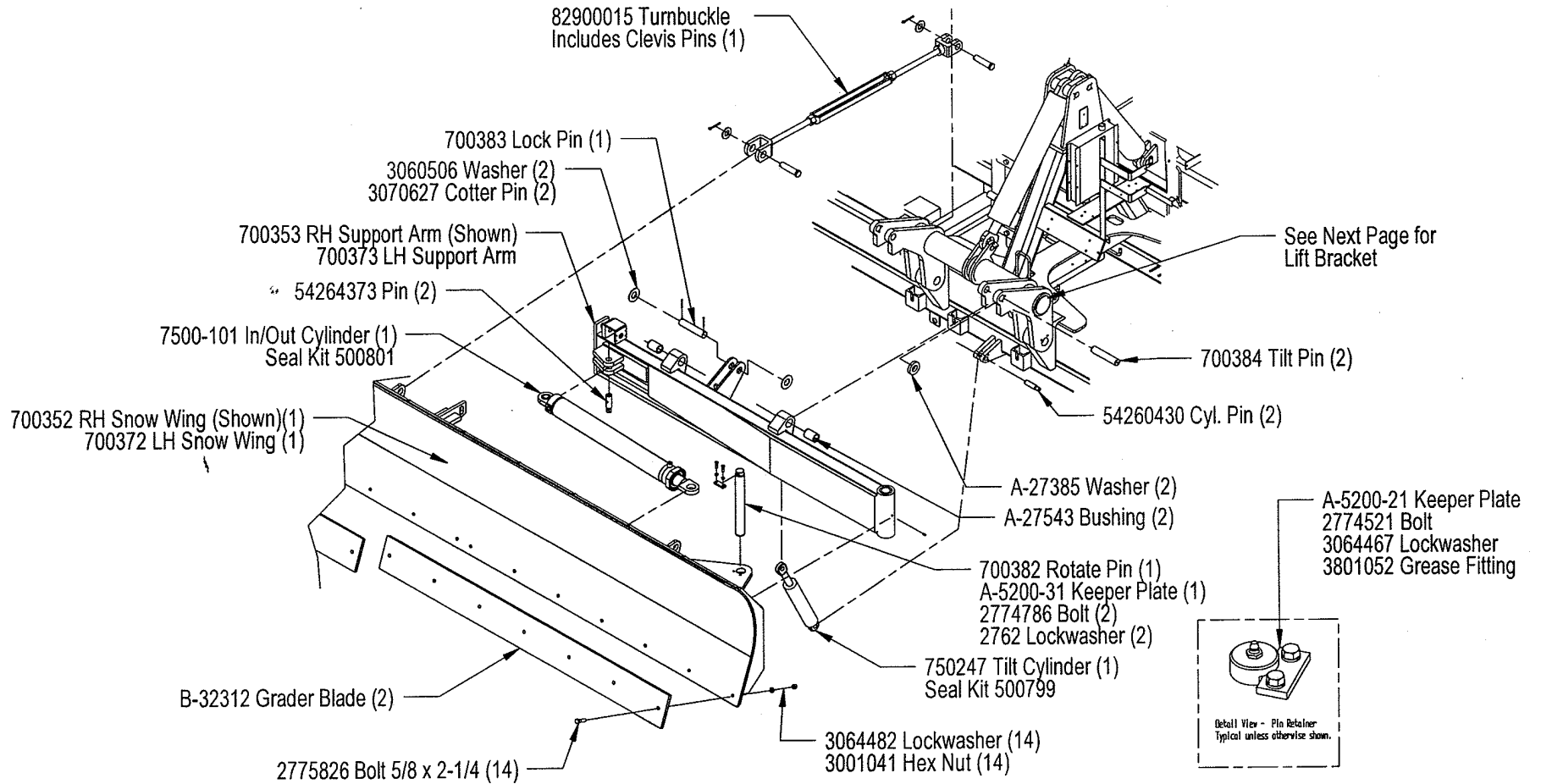


FIGURE 17-1. Snow Wings

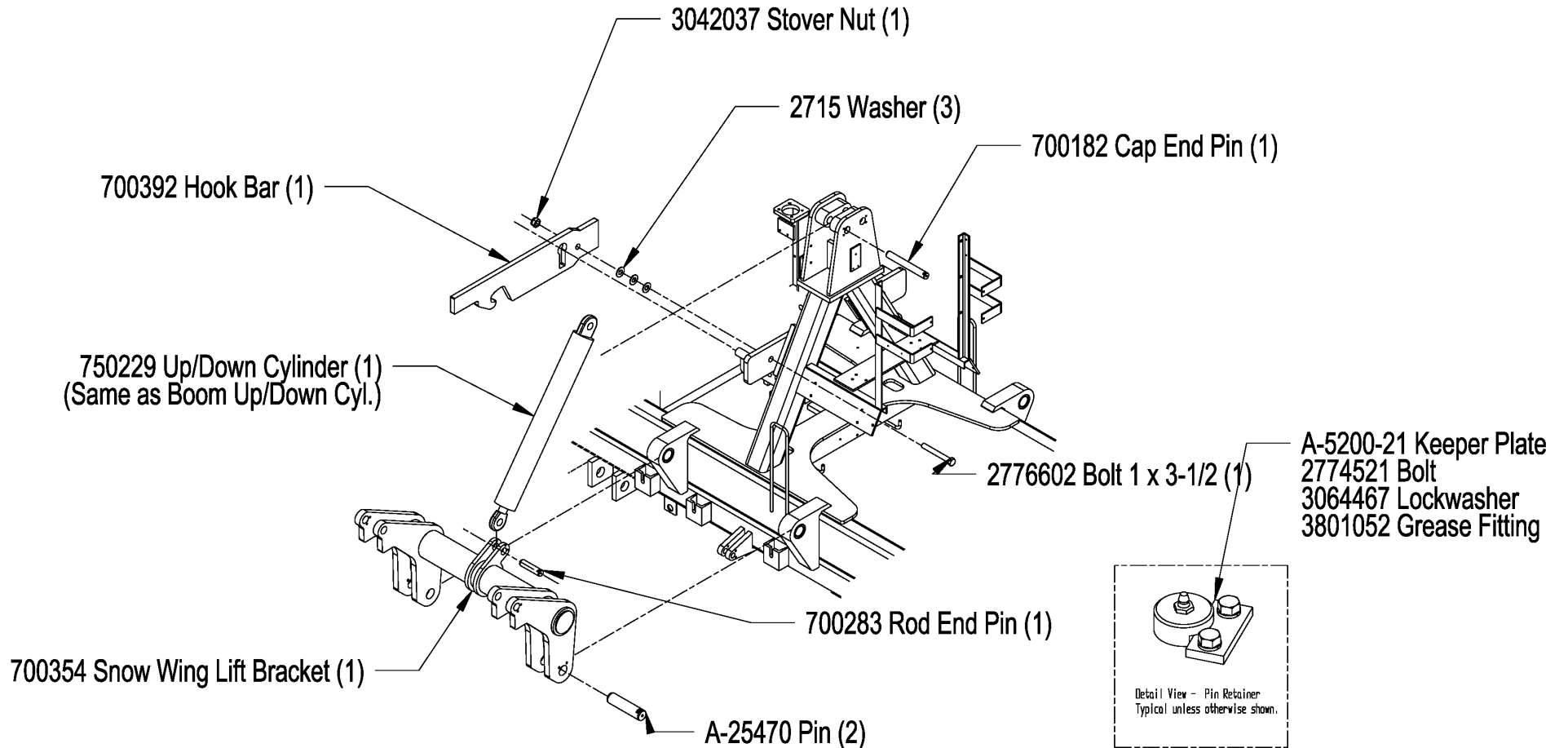
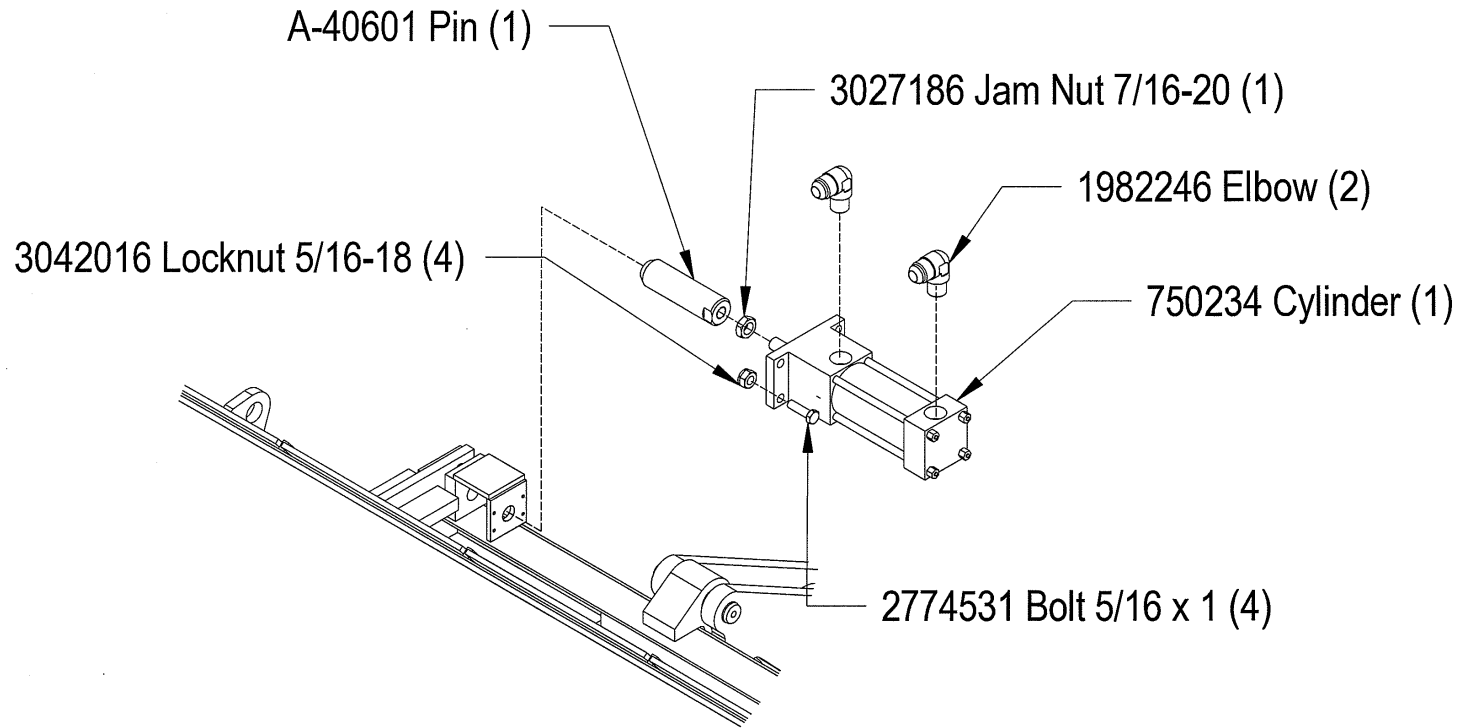
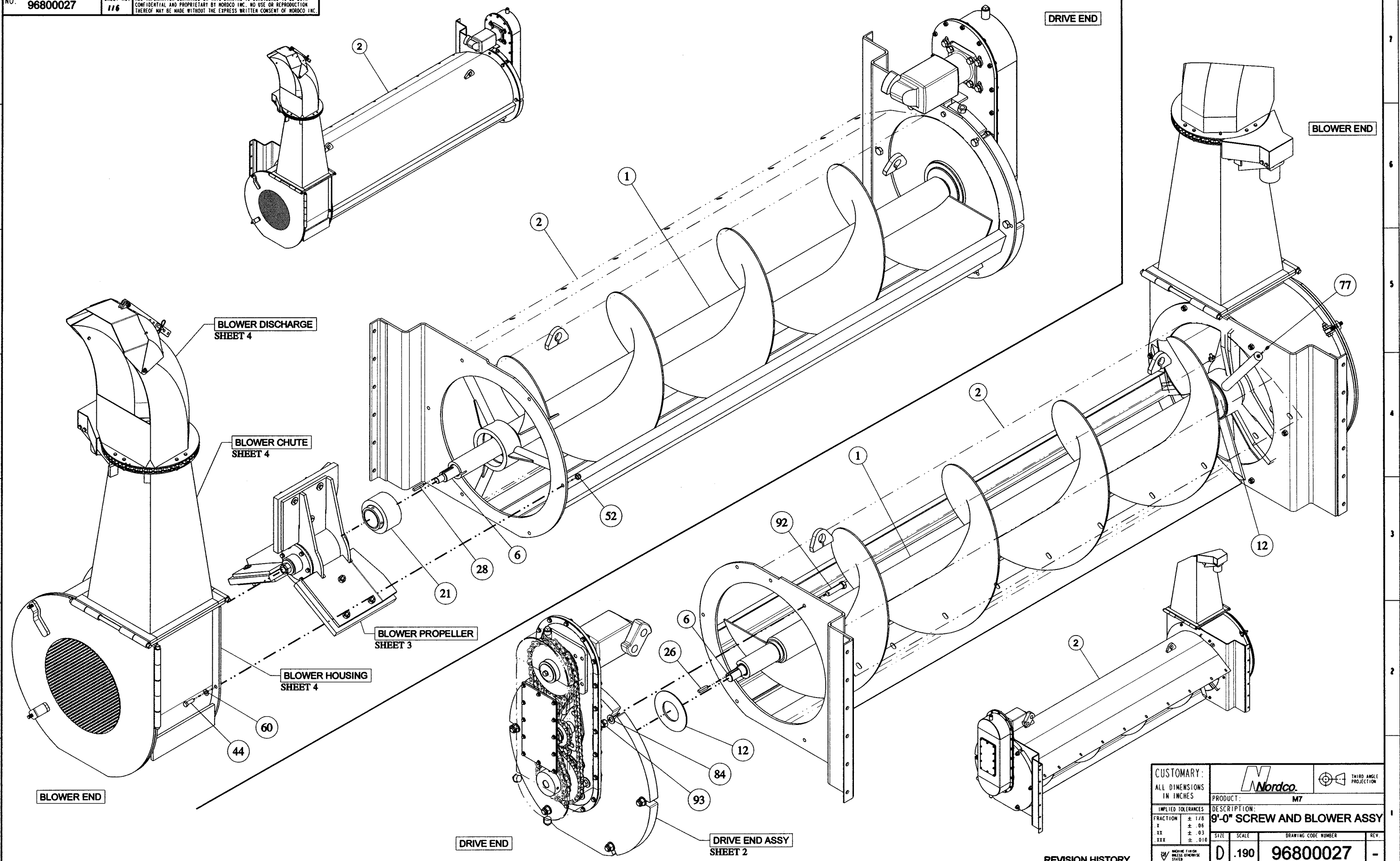


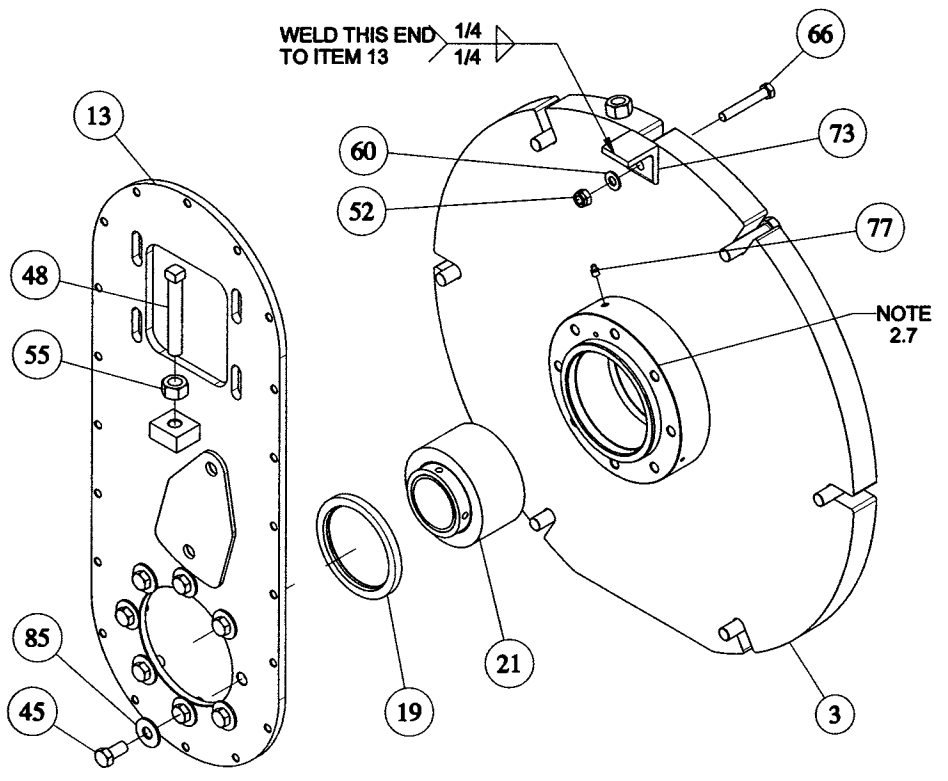
FIGURE 17-1. Snow Wings



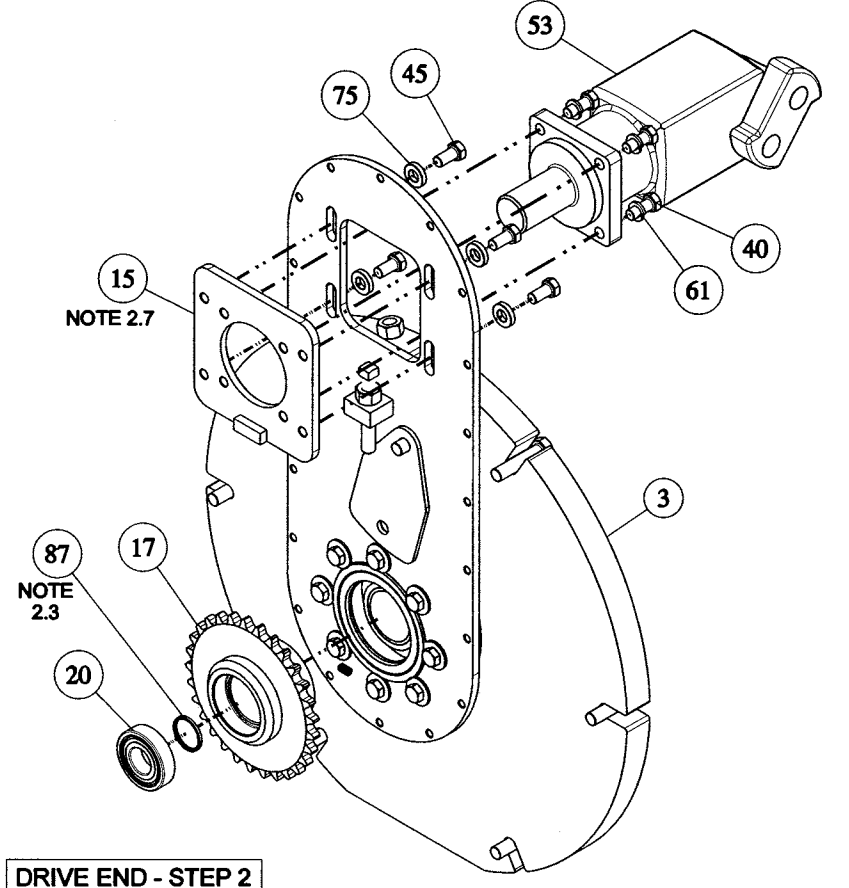


CUSTOMARY: ALL DIMENSIONS IN INCHES				THIRD ANGLE PROJECTION
IMPLIED TOLERANCES		PRODUCT: M7		
DESCRIPTION: 9'-0" SCREW AND BLOWER ASSY				
FRACTION	± 1/8	SIZE	SCALE	DRAWING CODE NUMBER
X	± .06			REV.
XX	± .03			
XXX	± .010			
		D .190	96800027	-
PLANE ANGLES ±.1°		ASSEMBLY: 96800028	SHEET 1	OF 6

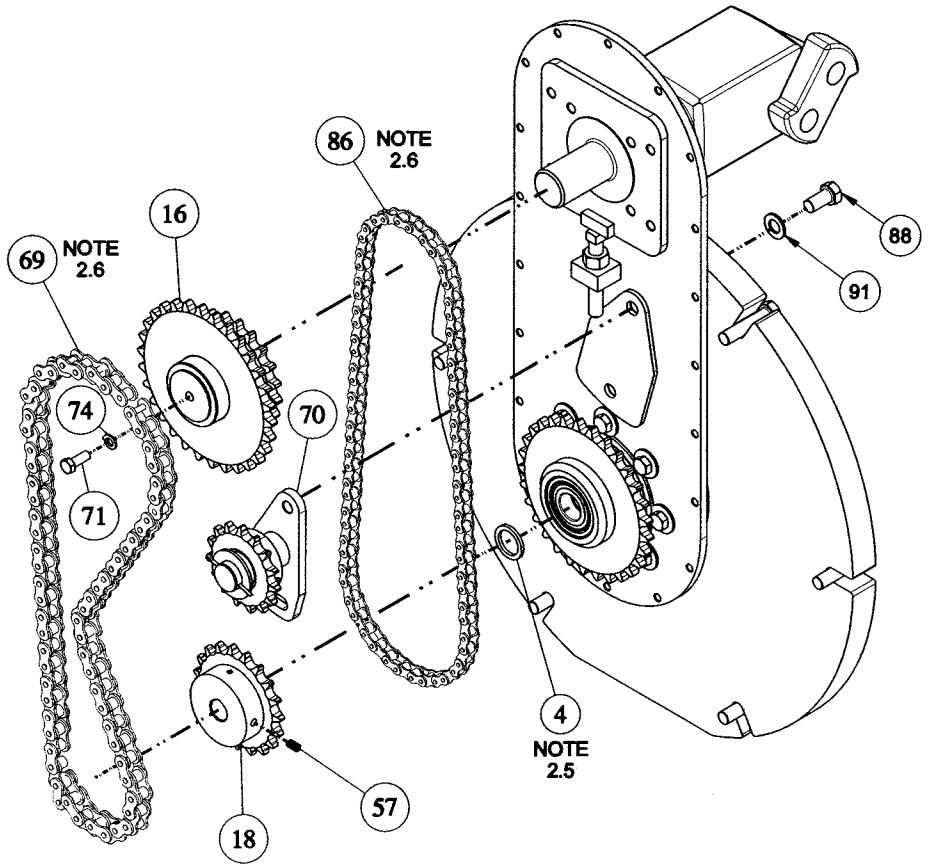
REVISION HISTORY
LOCATED ON LAST SHEET



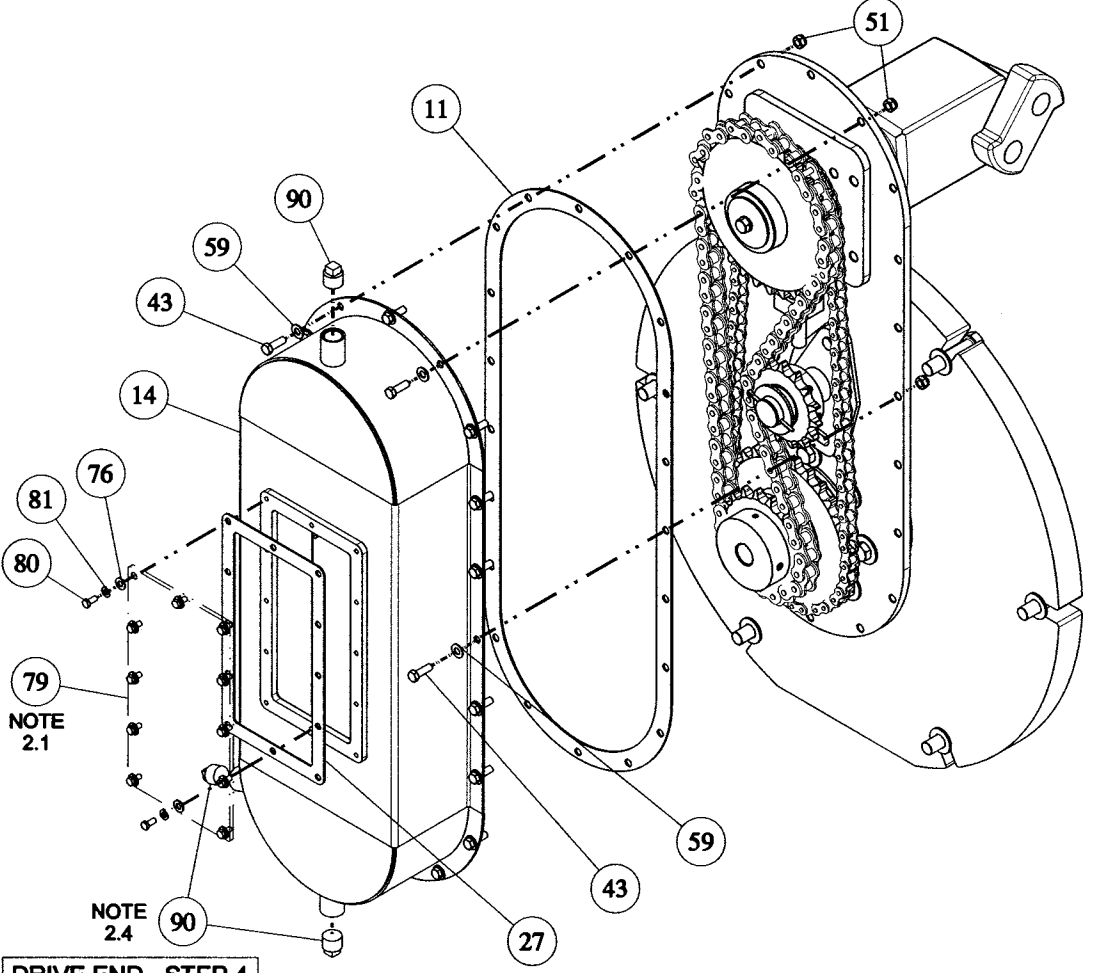
DRIVE END - STEP 1



DRIVE END - STEP 2



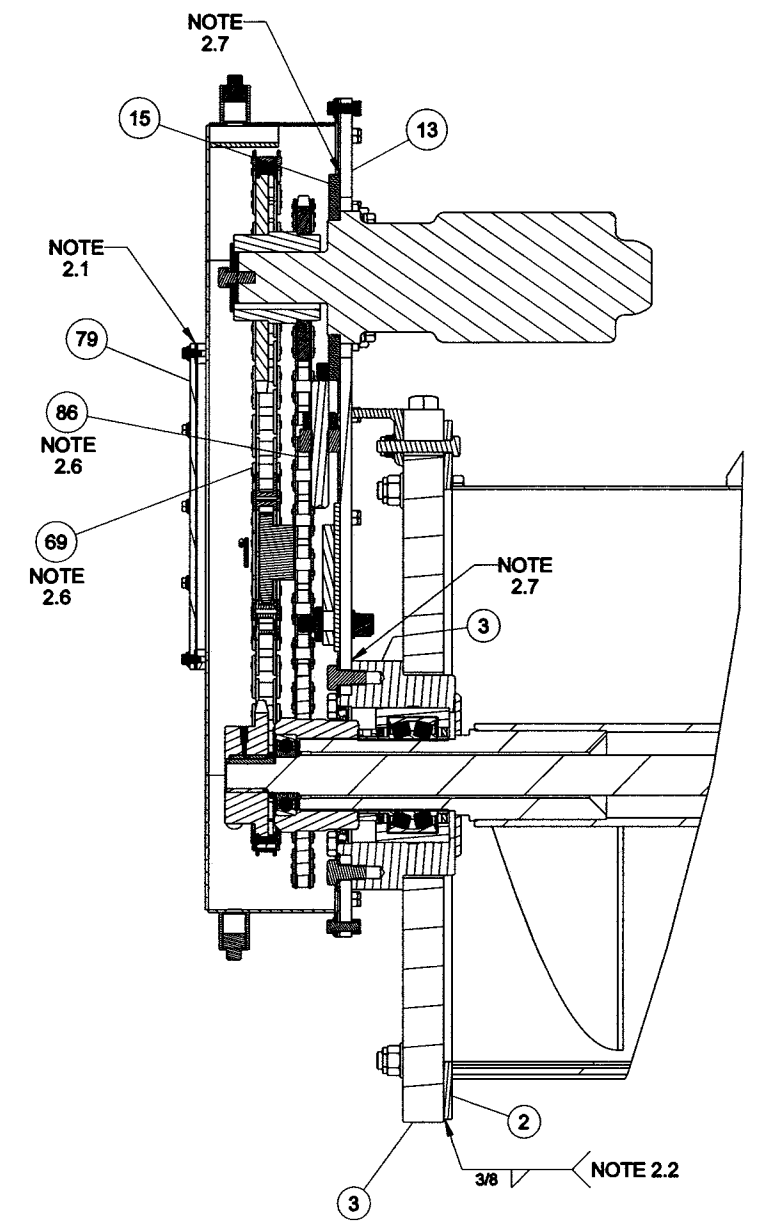
DRIVE END - STEP 3



DRIVE END - STEP 4

NOTES

- 2.1 APPLY SILICONE SEAL TO FLANGE PRIOR TO BOLTING COVER (ITEM 79).
- 2.2 WELD 3, 1" WELDS EVENLY SPACED AROUND COUNTERWEIGHT (ITEM 3).
- 2.3 APPLY GREASE TO LIP OF SEAL PRIOR TO INSTALLATION.
- 2.4 FILL WITH SAE 90 OIL TO LEVEL PLUG.
- 2.5 ADJUST THICKNESS OF SPACER (ITEM 4) ON ASSY TO KEEP CHAIN INLINE WITH SPROCKETS. GAP OF 0.06 IS ALLOWED BETWEEN ITEMS 4 & 18.
- 2.6 ADJUST EACH CHAIN ITEM 69 & 86 TO .44 ± .06 SLACK.
- 2.7 APPLY SILICONE SEALANT AT LOCATIONS SHOWN IN SECTION

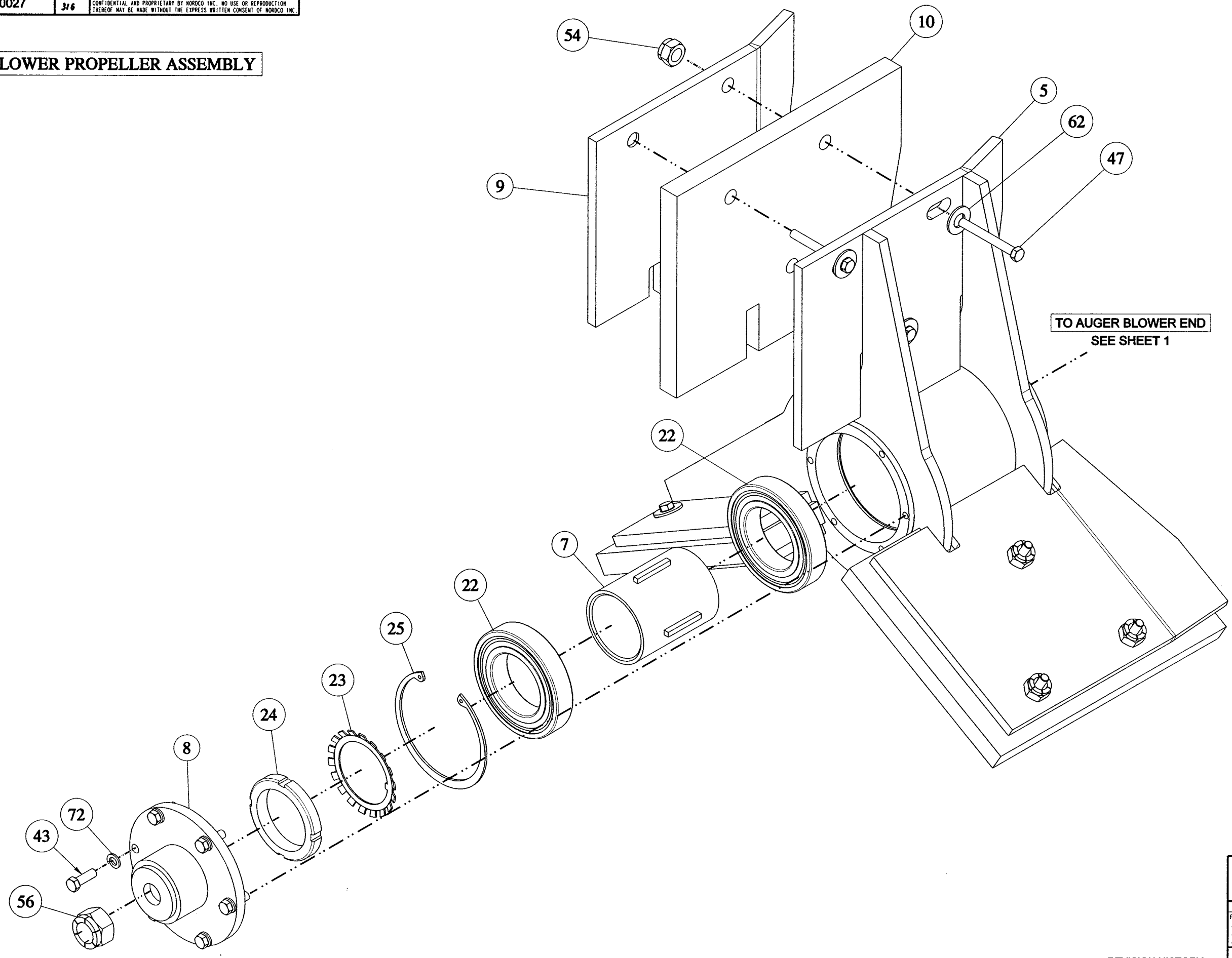


DRIVE END - SECTION

CUSTOMARY: ALL DIMENSIONS IN INCHES				THIRD ANGLE PROJECTION
IMPLIED TOLERANCES		PRODUCT: M7		
FRACTION	± 1/8	DESCRIPTION: 9'-0" SCREW AND BLOWER ASSY		
X	± .06	SIZE	SCALE	DRAWING CODE NUMBER
XX	± .03	D	.190	96800027
XXX	± .010	ASSEMBLY:	96800028	SHEET 2 OF 6

REVISION HISTORY
LOCATED ON LAST SHEET

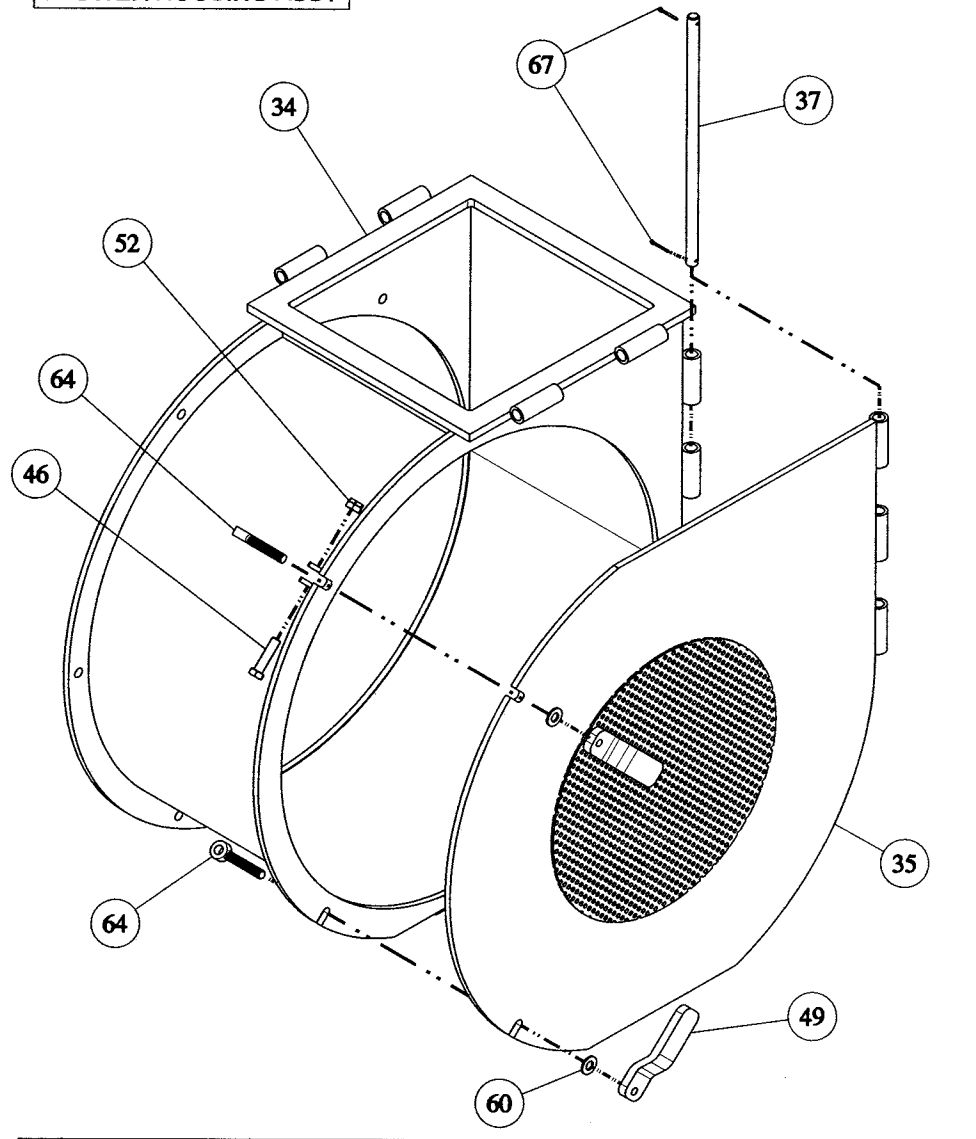
BLOWER PROPELLER ASSEMBLY



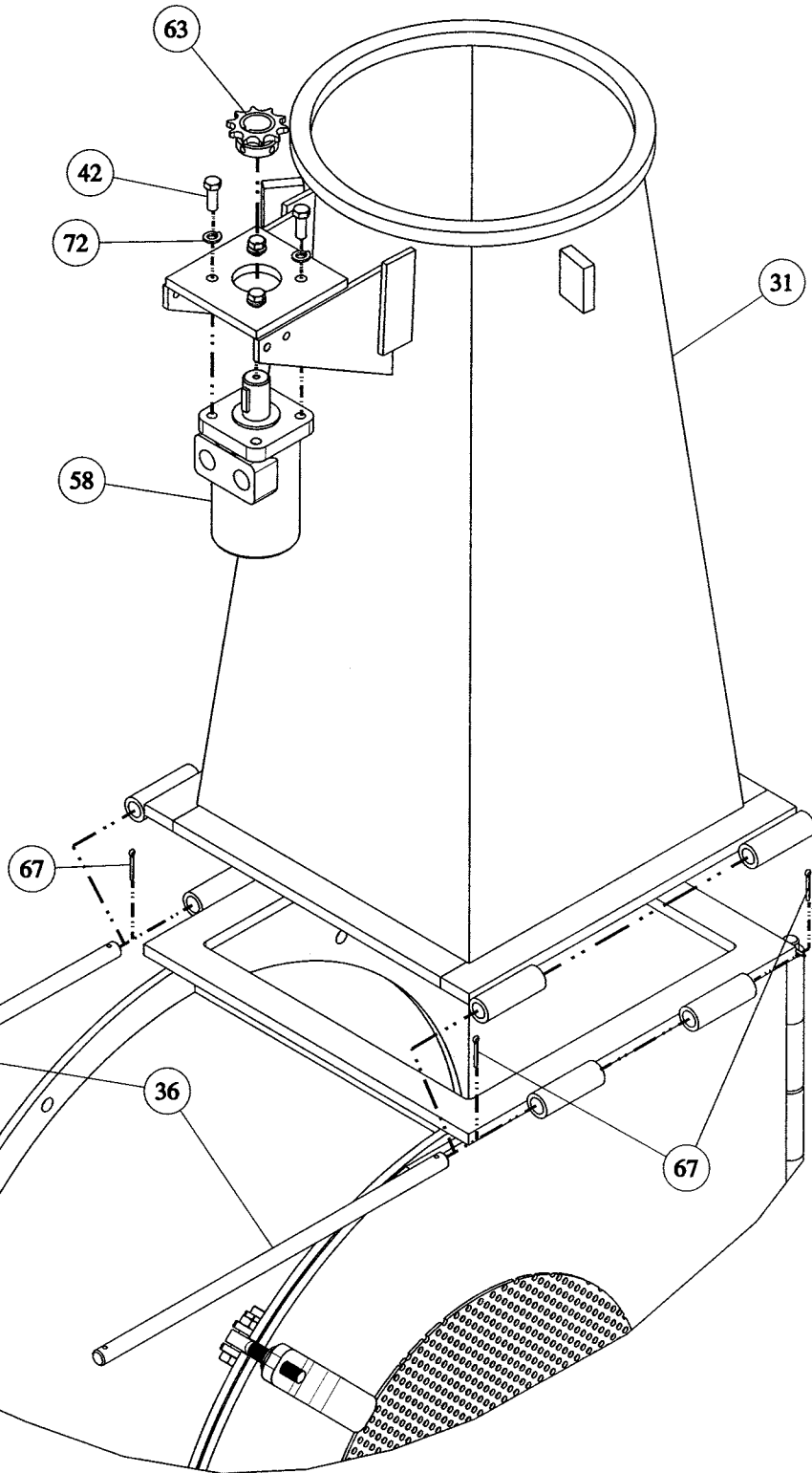
REVISION HISTORY LOCATED ON LAST SHEET

CUSTOMARY: ALL DIMENSIONS IN INCHES					
IMPLIED TOLERANCES		PRODUCT: M7			
DESCRIPTION: 9'-0" SCREW AND BLOWER ASSY		REV.			
FRACTION	± 1/8	SIZE	SCALE	DRAWING CODE NUMBER	REV.
.X	± .06	D	.190	96800027	-
.XX	± .03	ASSEMBLY: 96800028 SHEET 3 OF 6			
.XXX	± .010				
PLANE ANGLES ± 1°					

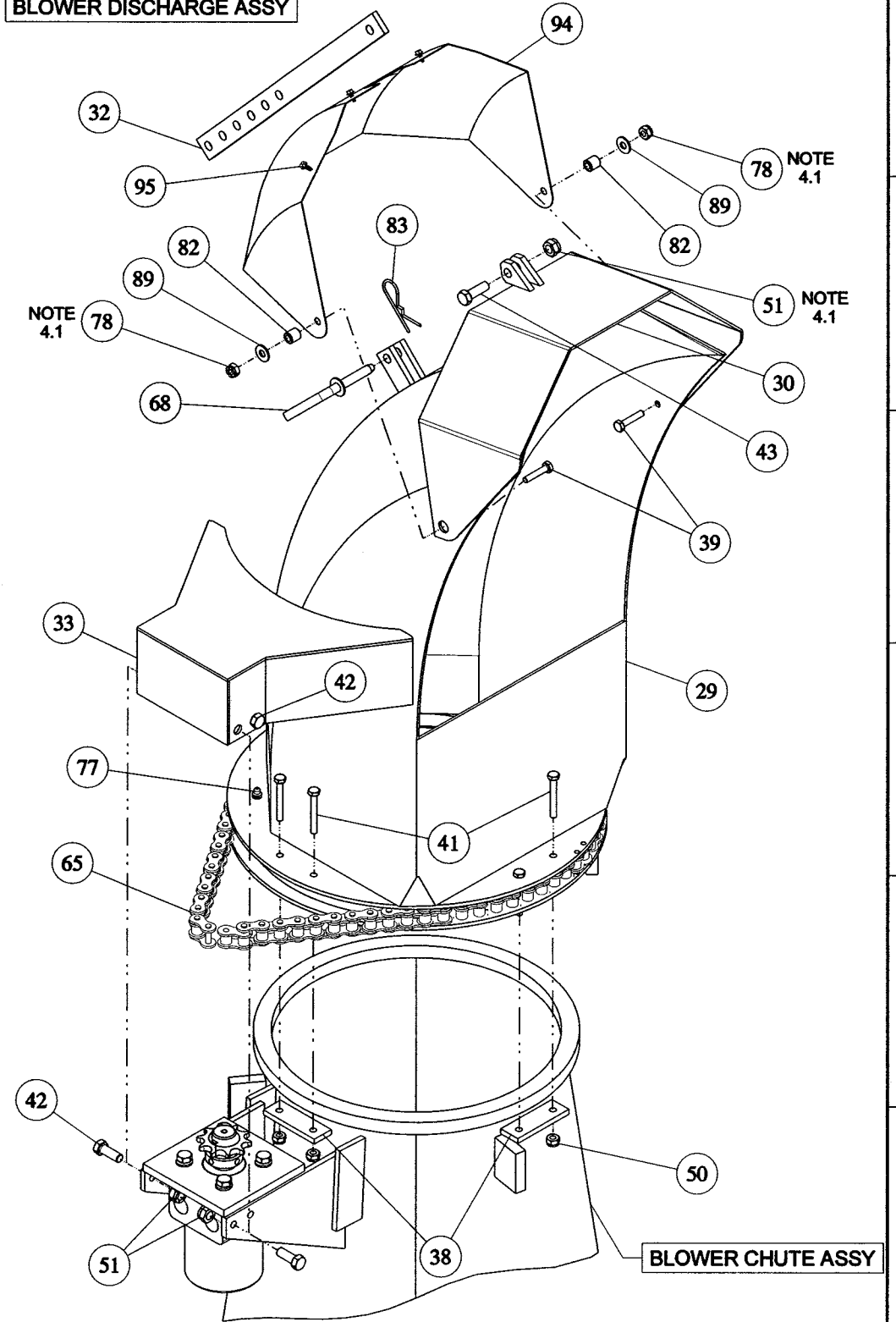
BLOWER HOUSING ASSY



BLOWER CHUTE ASSY



BLOWER DISCHARGE ASSY



BLOWER HOUSING ASSY

BLOWER CHUTE ASSY

NOTES

4.1 ONLY TORQUE NUTS ENOUGH TO ALLOW ROTATION OF HOOD (ITEM 30).



CUSTOMARY: ALL DIMENSIONS IN INCHES		PRODUCT: Nordco M7		THIRD ANGLE PROJECTION	
IMPLIED TOLERANCES		DESCRIPTION: 9'-0" SCREW AND BLOWER ASSY			
FRACTION	± 1/8	SIZE	SCALE	DRAWING CODE NUMBER	REV.
.X	± .06	D	.190	96800027	-
.XX	± .03	ASSEMBLY: -		96800028	SHEET 4 OF 6
.XXX	± .010				

REVISION HISTORY
LOCATED ON LAST SHEET

BILL OF MATERIALS					
ITEM NO.	PART NUMBER	QTY. REQ.	PART DESCRIPTION	VENDOR P/N	DWG SIZE
1	D-10342	1	SCREW CONVEYOR AUGER		D
2	D-32911	1	SCREW COVER ASSEMBLY		D
3	B-33574	1	COUNTERWEIGHT WELDMENT		B
4	A-10347	1	SPACER,		A
5	D-33135	1	BLOWER PROPELLER		D
6	B-10343	1	DRIVE SHAFT, BLOWER		B
7	0218-0600	1	SPACER TUBING BLOWER PROPELLER		B
8	0218-3000	1	FLANGE, DRIVE SHAFT BLOWER		B
9	C-33137	3	PLATE, STEEL PROPELLER		C
10	C-33138	3	PLATE, RUBBER PROPELLER		C
11	B-32955	1	GASKET, RUBBER DRIVE CHAIN CASE		B
12	B-10344	2	FLINGER		B
13	C-32918	1	COVER, MTG PLATE DRIVE CHAIN		C
14	C-32917	1	CASE, GUARD CHAIN		C
15	B-32954	1	BASE, MOUNTING DRIVE MOTOR		B
16	C-33863	1	ASSY, SPROCKET DRIVE		C
17	B-33860	1	ASSY, SPROCKET 80A29		B
18	C-10346	1	SPROCKET, 80B19		C
19	3900-74	1	OIL SEAL		-
20	4274	1	BEARING, BALL	NACHI #6308-2RS	-
21	4264	2	BEARING - AUGER SHAFT	REXNORD #CB22448H	-
22	4200-3	2	BEARING, BALL	NACHI #6215-2NSL	-
23	7024	1	LOCKWASHER	SKF #W-15	-
24	7309	1	LOCKNUT	SKF #AN-15	-
25	7612	1	RETAINING RING	WALDES #5000-500	-
26	A-27966	1	KEY		A
27	35681946	1	GASKET, CHAIN CASE INSPECTION		C
28	A-27968	1	KEY		A
29	0218-2300	1	DISCHARGE CHUTE BLOWER ASSY		D
30	0218-3400	1	HOOD (DISCHARGE CHUTE) BLOWER ASSY		C
31	0218-2500	1	CHUTE BASE BLOWER ATTACH		C
32	0218-3500	1	ADJUSTING BAR BLOWER ATTACH.		A
33	38046116	1	CHAIN GUARD, BLOWER CHUTE		C
34	0218-2200	1	BLOWER HOUSING		D
35	C-33535	1	COVER PLATE ASSY, BLOWER HOUSING		C
36	0218-2900	2	BLOWER CHUTE HINGE PIN		A
37	0218-3600	1	BLOWER DOOR HINGE PIN		A
38	0218-0800	4	RETAINING PLATE, BLOWER CHUTE		A
39	2774291	2	CAPSCREW, HEX HEAD 1/4 X 1-1/4		-
40	2775801	4	CAPSCREW, HEX HEAD 5/8 X 1-1/2		-
41	2774321	8	CAPSCREW, HEX HEAD 1/4 X 2		-
42	2774781	8	CAPSCREW, HEX HEAD 3/8 X 1		-
43	2774786	27	CAPSCREW, HEX HEAD 3/8 X 1-1/8		-
44	2775301	6	CAPSCREW, HEX HEAD 1/2 X 1-1/2		-
45	2775791	12	CAPSCREW, HEX HEAD 5/8 X 1-1/4		-
46	2775321	2	CAPSCREW, HEX HEAD 1/2 X 2		-
47	2775846	9	CAPSCREW, HEX HEAD 5/8 X 3-1/4		-
48	2948331	1	SETSCR SQ HD CUP POINT 3/4"-10 X 5"		-
49	B-33194	2	HANDLE, COVER PLATE		B
50	3042013	8	HEX LOCKNUT 1/4-20		-
51	3042020	25	HEX LOCKNUT 3/8-16		-
52	3042025	9	HEX LOCKNUT 1/2-13		-
53	50230035	1	MOTOR, HYD	CHAR-LYNN 119-1029-003	-
54	3042028	9	HEX LOCKNUT 5/8-11		-
55	3001051	1	HEAVY HEX NUT 3/4-10		-
56	3042107	1	HEX LOCKNUT 1.0-14 UNF		-
57	1893	1	SET SCREW 7/16"-20 X 3/4" CUP POINT		-
58	F-201	1	MOTOR, HYD	CHAR-LYNN 101-1003	-
59	3060470	20	WASHER, SAE 3/8		-
60	3060476	9	WASHER, SAE 1/2		-



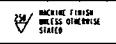
BILL OF MATERIALS					
ITEM NO.	PART NUMBER	QTY. REQ.	PART DESCRIPTION	VENDOR P/N	DWG SIZE
61	3064482	4	LOCKWASHER, 5/8		-
62	3060482	9	WASHER, SAE 5/8		-
63	6721	1	CHAIN SPROCKET	REVCO #50B10 X 1" K2SS	-
64	A-7356	2	BOLT, SWING		-
65	4538-92	1	CHAIN, ROLLER 92 LINKS 50-1 ANSI 5/8 PITCH		-
66	2775346	1	CAPSCREW, HEX HEAD 1/2 X 3-1/4		-
67	3070315	6	COTTER PIN .125 X 1.00		-
68	A-32892	1	PIN ASSY, BLOWER DISCHARGE HOOD		A
69	4539-70	1	CHAIN, ROLLER 70 LINKS 80-1 ANSI 1" PITCH		-
70	B-32880	1	IDLER SPROCKET ADJUSTER ASSY		B
71	2779291	1	CAPSCREW, HEX HEAD 1/2 X 1-1/4		-
72	3064470	10	LOCKWASHER, 3/8		-
73	A-32894	1	ANGLE, RETAINER COUNTERWEIGHT		A
74	3064476	1	LOCKWASHER, 1/2		-
75	A-32989	4	SPACER, MTG HYD MOTOR		A
76	3060467	12	WASHER, SAE 5/16		-
77	3801052	3	FITTING, GREASE 1/8 PT		-
78	3042013	2	HEX LOCKNUT 1/4-20 UNC		-
79	B-32885	1	COVER, INSPECTION CHAIN CASE		B
80	2774516	12	CAPSCREW, HEX HD 5/16 X 5/8		-
81	3064467	12	LOCKWASHER, 5/16		-
82	A-33640	2	SPACER, DISCHARGE HOOD		A
83	2874-3	1	HITCH PIN CLIP	SPAE-NAUR #CP86-H	-
84	3060489	6	WASHER, HARDENED SAE		-
85	3060483	8	WASHER, SAE 5/8 HARDEN C38-45		-
86	4539-68	1	CHAIN, ROLLER 68 LINKS 80-1 ANSI 67 PITCHED		-
87	3900-73	1	SEALING RING	INA G45-52x4 C/R # 17692	-
88	2779945	1	HEX HD CAPSCREW, 3/4-16 X 1-1/2		-
89	3060025	2	WASHER, WROUGHT 1/4		-
90	1558644	3	PIPE PLUG, 3/4 NPT- SQUARE HEAD		-
91	3060488	1	WASHER, SAE 3/4		-
92	2776096	6	HEX HD CAPSCREW, 3/4-10 X 3-1/4		-
93	3042031	6	HEX LOCKNUT, 3/4-10		-
94	27299279	1	TARP, SNOW BLOWER DISCHARGE		-
95	3114192	3	SCREW, TAPPING #8-3/8 HEX FL HD		-

REVISION HISTORY LOCATED ON LAST SHEET

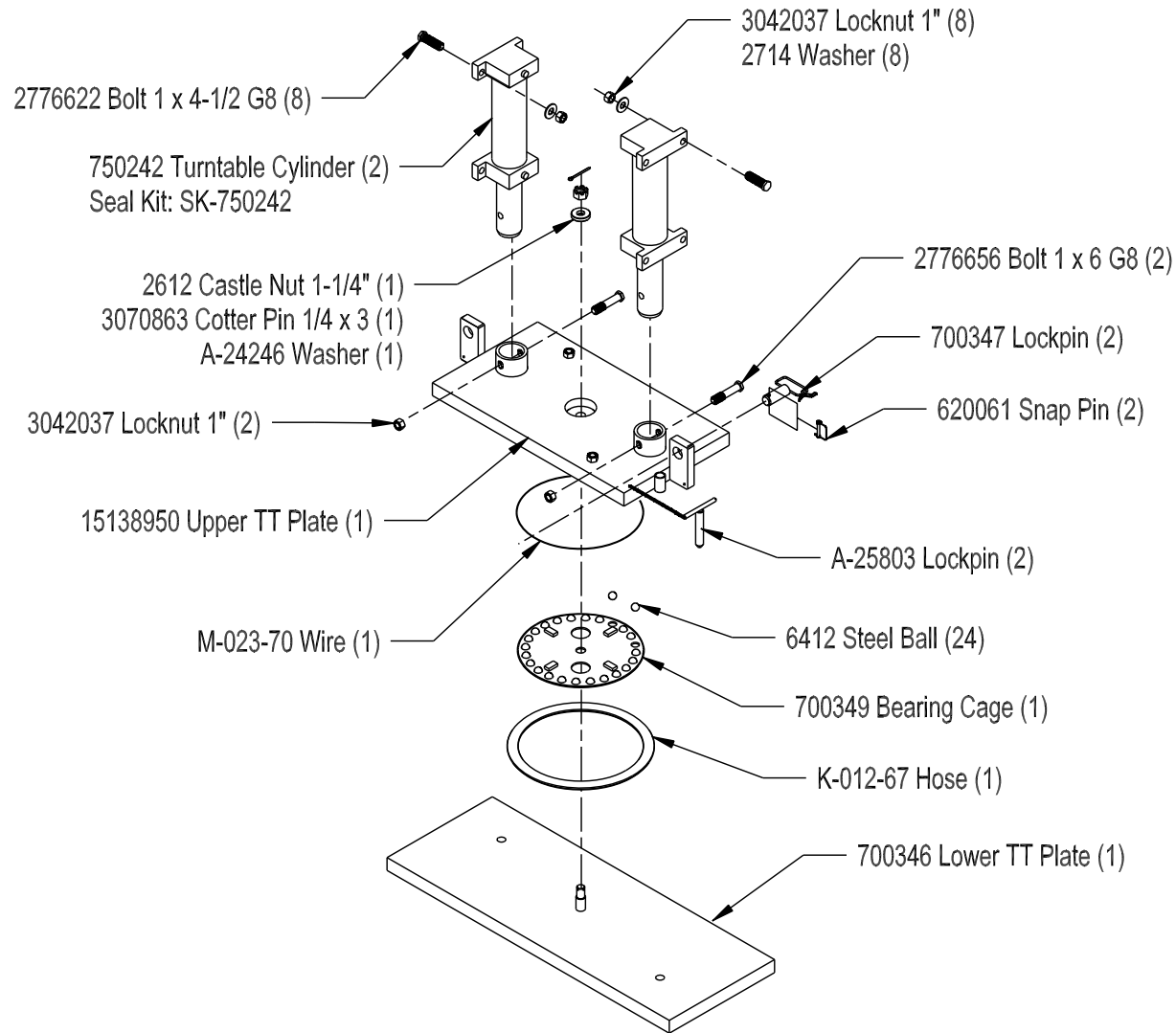
CUSTOMARY: ALL DIMENSIONS IN INCHES		 	
IMPLIED TOLERANCES		PRODUCT: M7	
FRACTION	± 1/8	DESCRIPTION: 9'-0" SCREW AND BLOWER ASSY	
.X	± .06	SIZE	SCALE
.XX	± .03	DRAWING CODE NUMBER	REV.
.XXX	± .010	D	.190
MACHINE FINISH UNLESS OTHERWISE SPECIFIED		96800027	-
PLANE ANGLES ± 1°		ASSEMBLY: 96800028	SHEET 5 OF 6

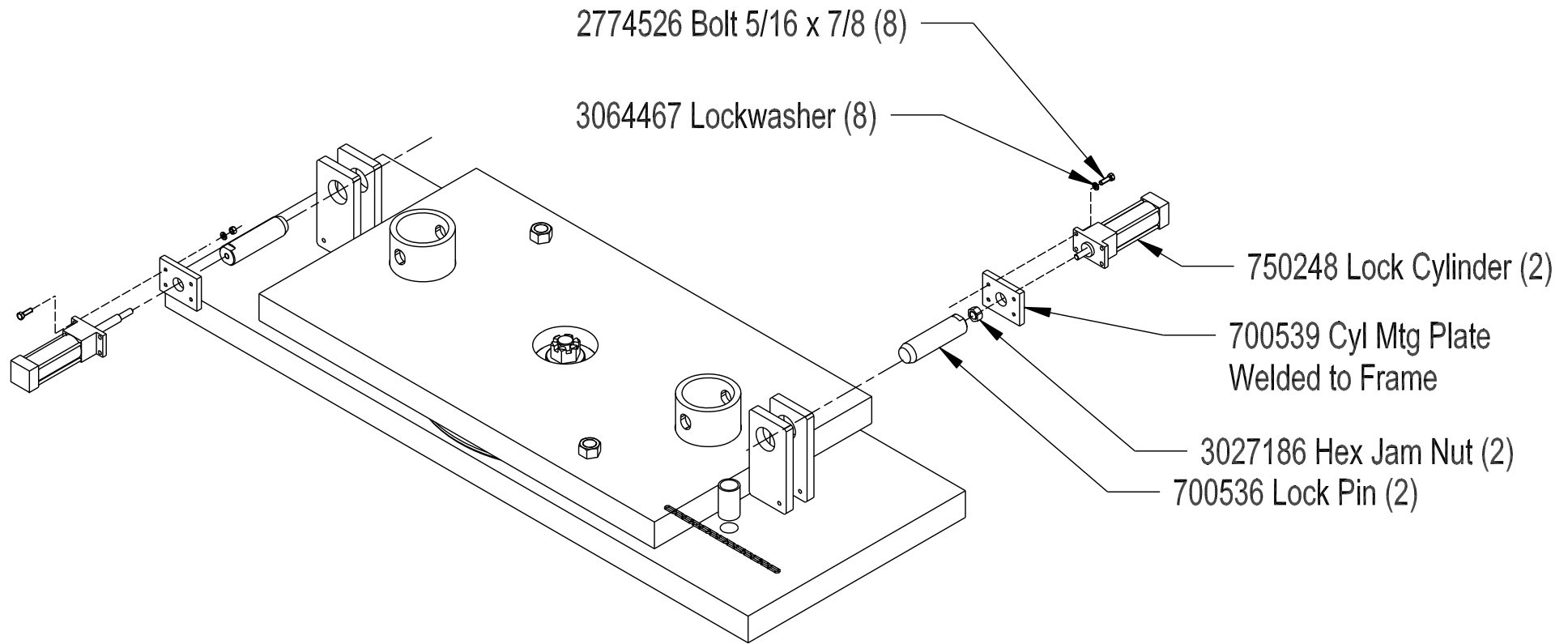
NO. 96800027 SHEET NO. 616 ALL INFORMATION CONTAINED ON THIS DRAWING IS CONSIDERED TO BE BOTH CONFIDENTIAL AND PROPRIETARY BY NORDCO INC. NO USE OR REPRODUCTION THEREOF MAY BE MADE WITHOUT THE EXPRESS WRITTEN CONSENT OF NORDCO INC.

ECO	600138	REV -
DRAWN BY:	CHECKED BY:	APPROVED BY:
SWA		
03-22-11		
SHEET	CHANGE	
ALL	NEW ISSUE	

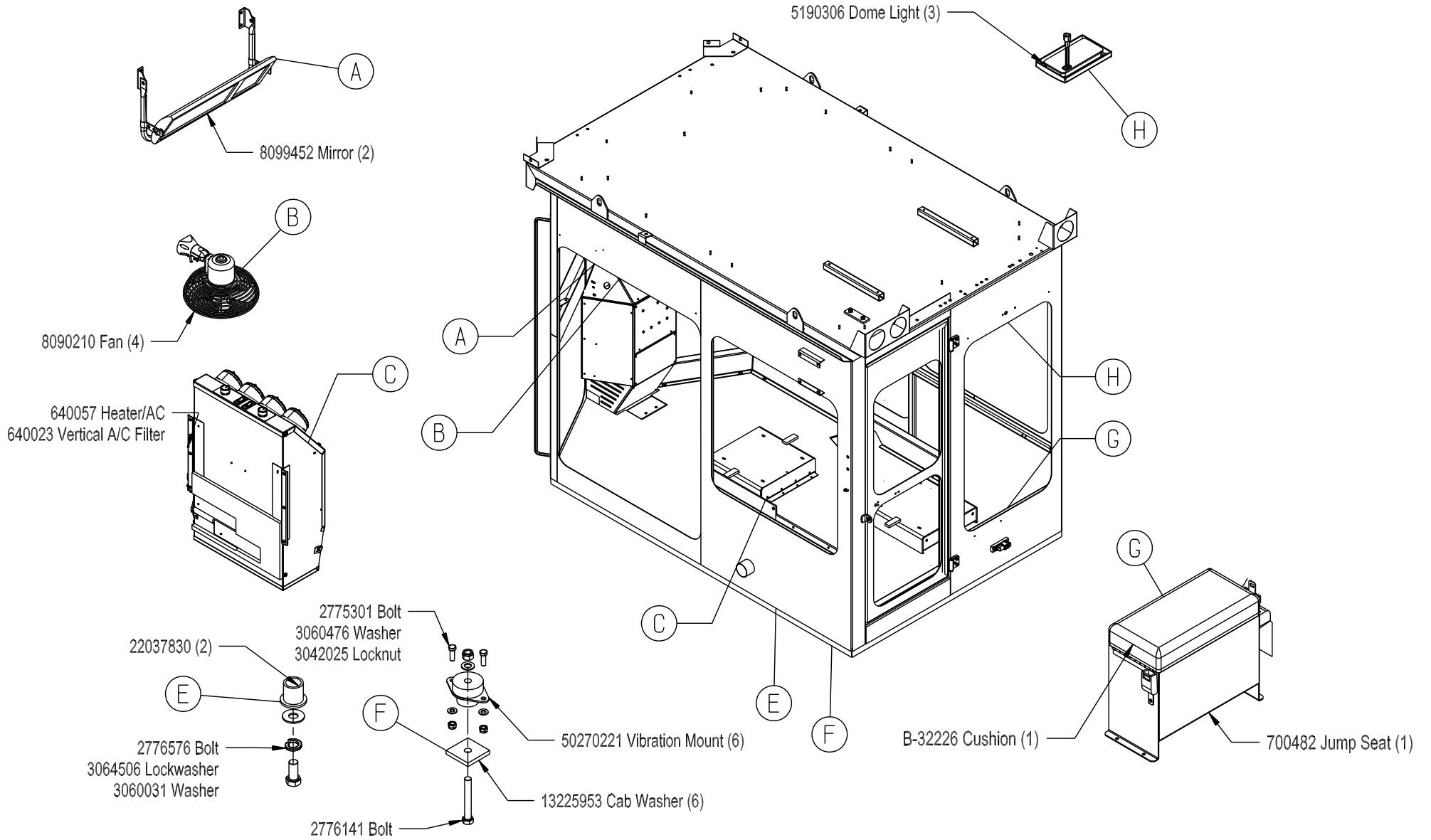
CUSTOMARY: ALL DIMENSIONS IN INCHES				 THIRD ANGLE PROJECTION
IMPLIED TOLERANCES		PRODUCT: M7		
FRACTION	± 1/8	DESCRIPTION: 9'-0" SCREW AND BLOWER ASSY		
.X	± .06	SIZE	SCALE	DRAWING CODE NUMBER
.XX	± .03	D	.190	96800027
.XXX	± .010	ASSEMBLY: -	96800028	SHEET 6 OF 6
 FINISH UNLESS OTHERWISE NOTED				
PLANE ANGLES ±.1°				

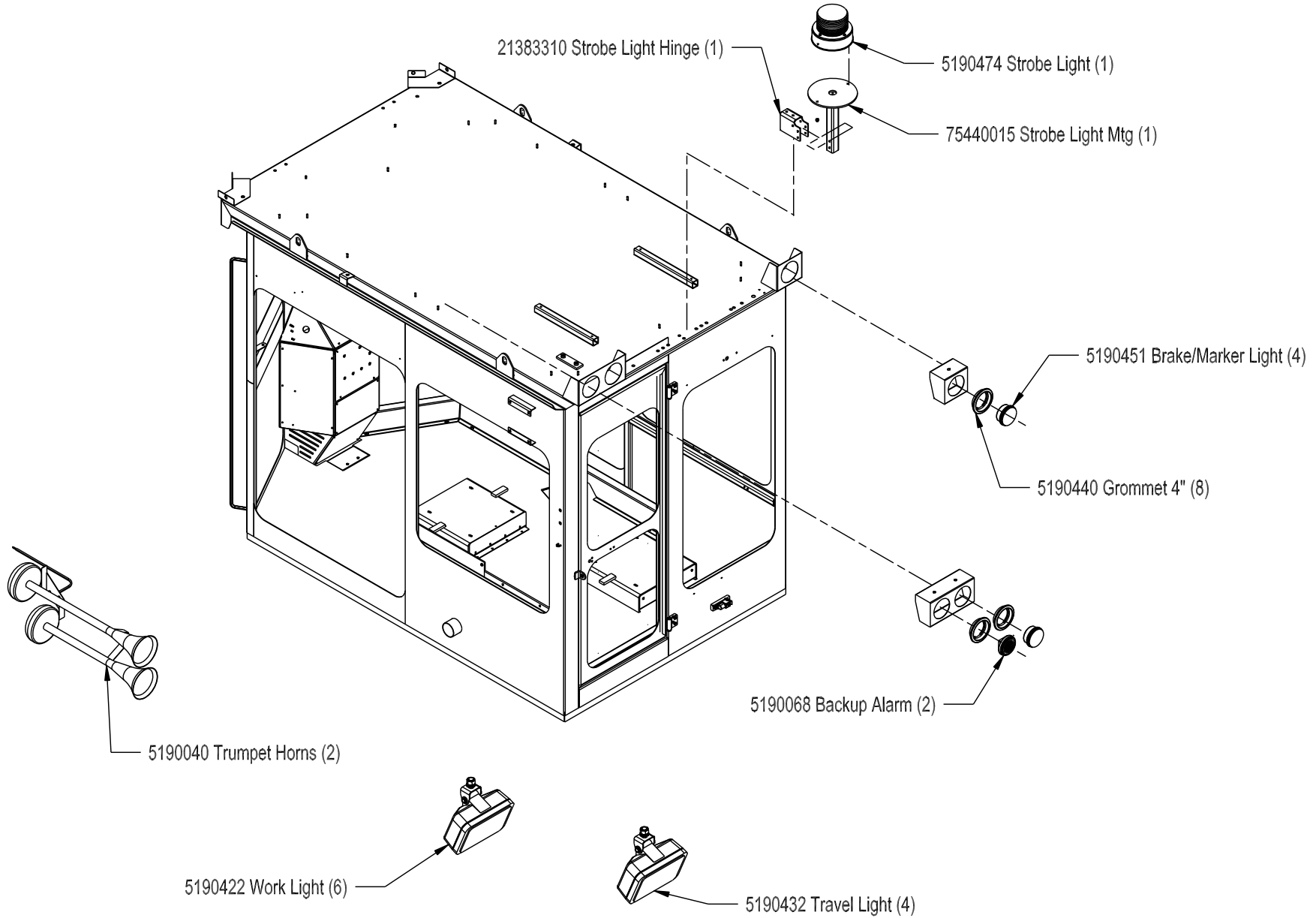
REVISION HISTORY
LOCATED ON LAST SHEET

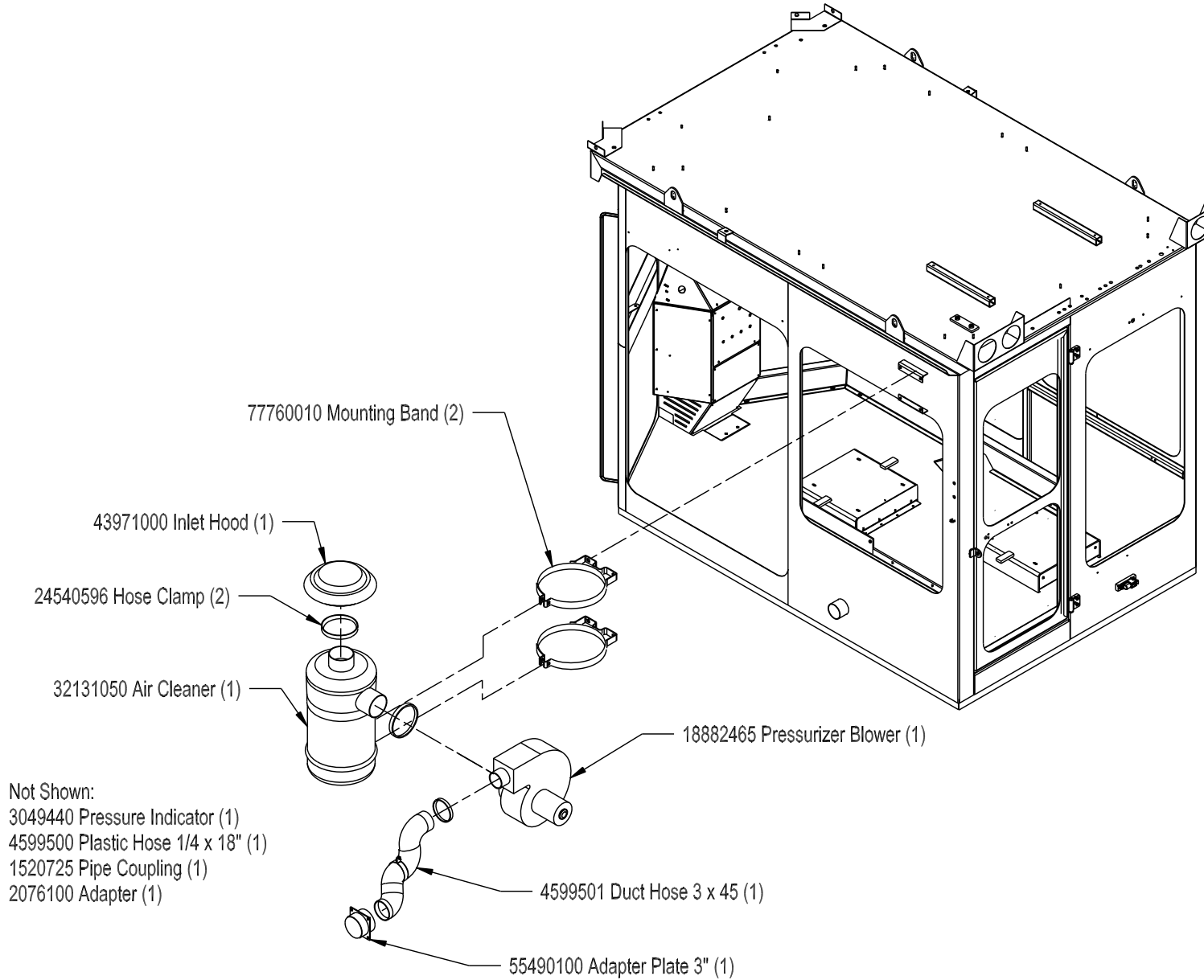


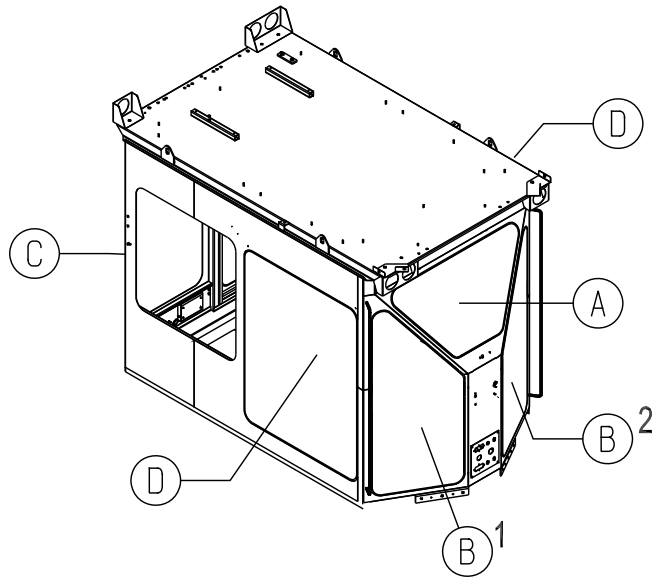


Not Shown: 690224 Lockup Decal







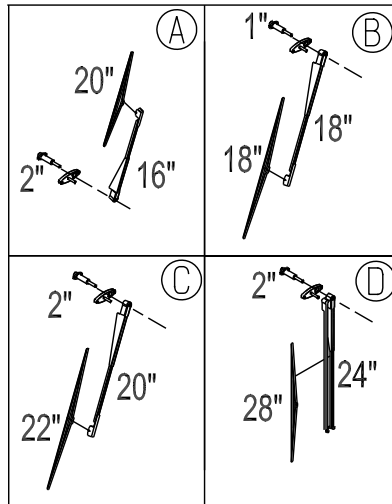
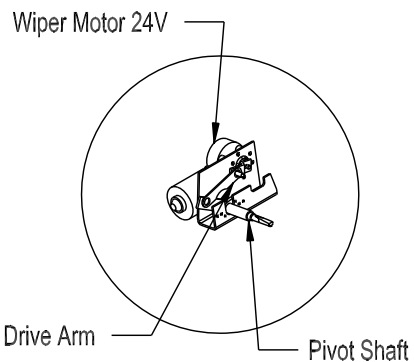


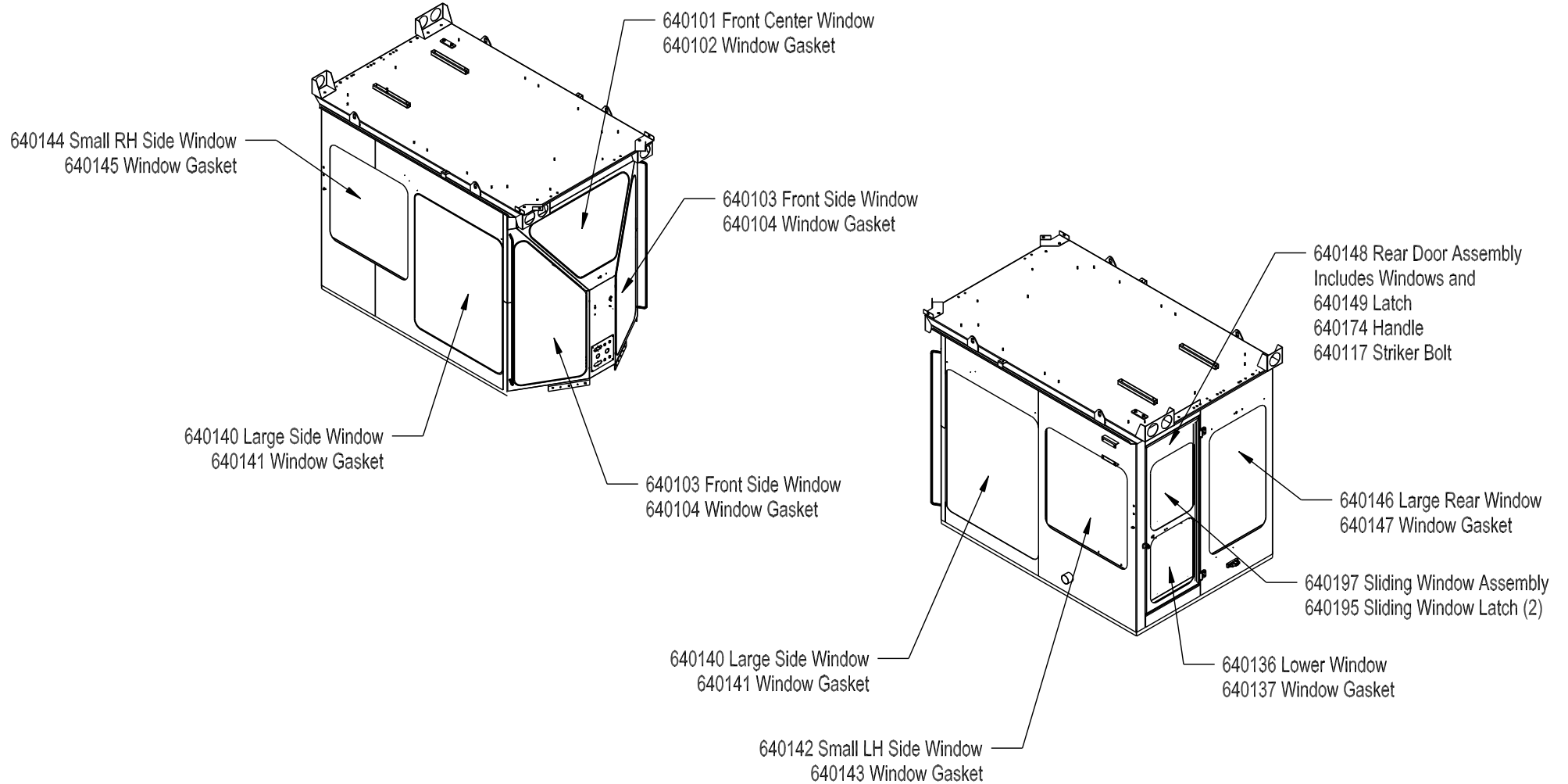
Assemblies

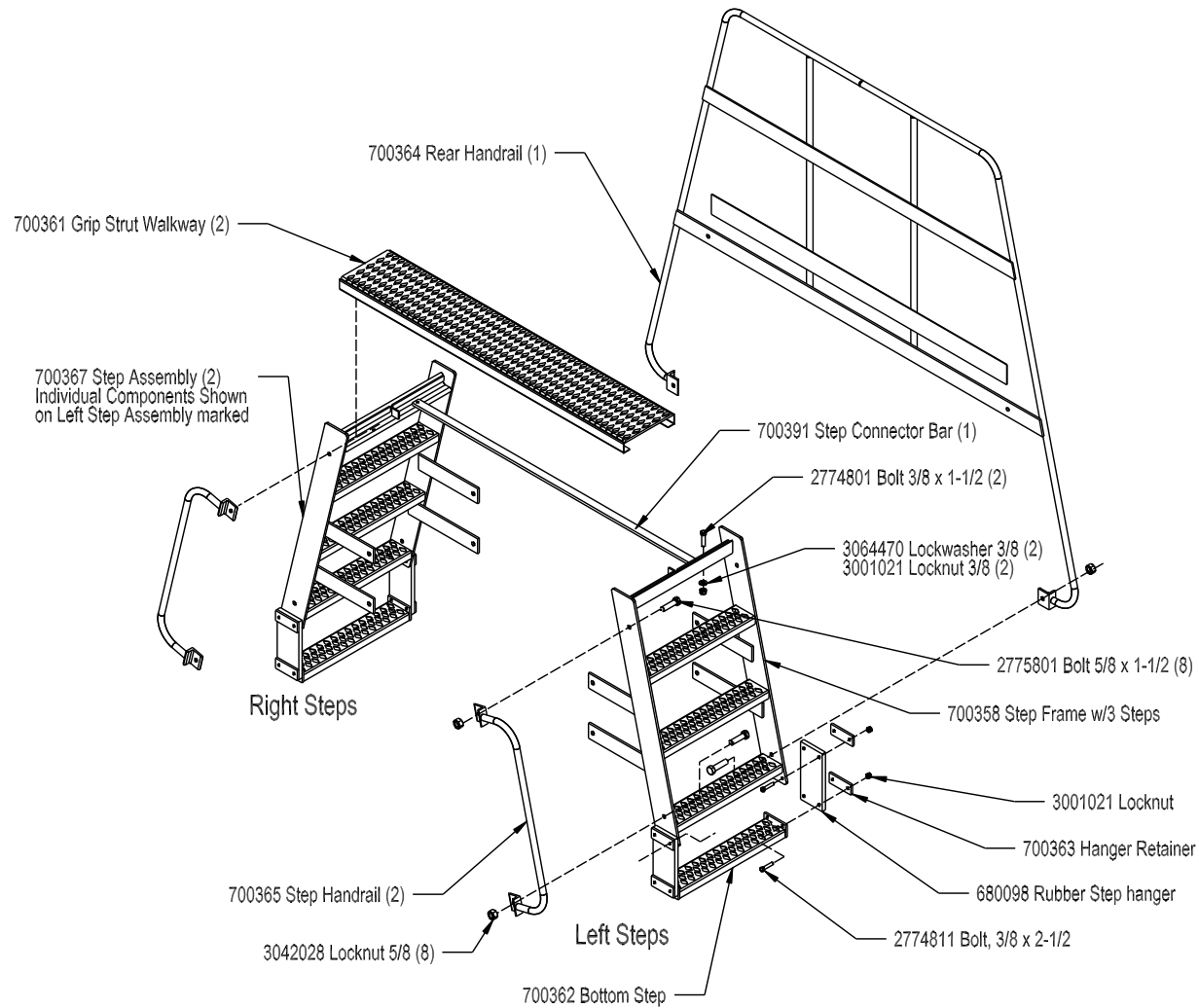
	(A)	(B)	(C)	(D)
Component	Front Upper	Front Lower (2)	Rear	Side (2)
24V Motor Assembly	640093	640090	640151	640151
24V Motor	640188	640188	640188	640188
Drive Arm	640189	640189	640192	640192
Pivot Shaft	640190	640191	640190	640190
Wiper Arm	640094	640091	640152	11050009
Blade	640095	640092	640153	17760040
Pantograph Adapter	11050050	11050050	11050050	11050050

Kits

	(A)	(B) ¹	(B) ²	(C)
Component	Upper Front	RH Front	LH Front	Rear
Kit Number-->	660190	660191	660192	660193
24V Motor Assembly	N/I	640090	640090	640151
24V Motor	N/I	640188	640188	640188
Drive Arm	N/I	640189	640189	640192
Pivot Shaft	N/I	640191	640191	640190
Wiper Arm	640094	640091	N/I	640152
Blade	640095	640092	640092	640153
Motor Bracket	N/I	N/I	640074	N/I







Reference: 480121DWG