

**Figure Description S/N Range**

Figure 1 – Operator Station

- Fig. 1-1 Short Cab & Windows ..... S/N 800201-800220
- Fig. 1-1A Tall Cab & Windows ..... S/N 800221 & Above
- Fig. 1-2 Seat and Controls ..... S/N 800201 & Above
- Fig. 1-3 A/C & Heat ..... S/N 800201-800220
- Fig. 1-3A A/C & Heat ..... S/N 800221 & Above
- Fig. 1-4 Cab Pressurizer & Ducts ..... S/N 800201 & Above
- Fig. 1-5 Perimeter Lighting ..... w/V-Plow Option
- Fig. 1-6 Cab Steps & Walkway ..... Not Available at this Time
- Fig. 1-7 Extended Cab and Windows ..... Option

Figure 2 – Axles

- Fig. 2-1 Axle ..... S/N 800201 & Above
- Fig. 2-2 Drive Housing ..... S/N 800201 & Above
- Fig. 2-3 Suspension ..... S/N 800201 & Above
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Figure 3 – Brakes

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- Fig. 3-1-1 Fender Covers ..... Option

Figure 4 – Pneumatics

- Fig. 4-1 Air Dryer ..... S/N 800201 & Above
- Fig. 4-2 Air Compressor ..... Option

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- Fig. 5-1 Transmission ..... S/N 800201 & Above
- Fig. 5-1-1 Track Drive Motor ..... S/N 800201 & Above
- Fig. 5-3 Torque Arm ..... S/N 800201 & Above
- Fig. 5-4 Drive Shaft ..... S/N 800201 & Above

**Figure Description S/N Range**

Figure 6 – Misc. Frame Attachments & Accessories

- Fig. 6-1 Battery (See Electrical Section)
- Fig. 6-3 Rail Sweep ..... S/N 800201-800235, 800237
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Figure 7 – Engines

- Fig. 7E-1-1 John Deere w/Clutch Disc ..... S/N 800201 & Above
- Fig. 7E-1-2 John Deere w/o Clutch Disc ..... S/N 800201 & Above
- Fig. 7E-1-3 Horton Fan ..... Option
- Fig. 7E-2-1 Cummins w/Clutch Disc. .... S/N 800201 & Above
- Fig. 7E-2-2 Cummins w/o Clutch Disc. .... S/N 800201 & Above
- Fig. 7P-1 Pumps ..... S/N 800201-800236
- Fig. 7P-1A Pumps ..... S/N 800237 and Above

Figure 8 – Hydraulic Tanks and Accessories

- Fig. 8-1 Hydraulic Tank ..... S/N 800201 & Above
- Fig. 8-1-1 Espar Heater ..... Option

Figure 9 – Hydraulic Oil Cooler

- Fig. 9-1 Oil Cooler ..... S/N 800201 – 800228
- Fig. 9-1A Oil Cooler ..... S/N 800229 & Above

Figure 10 – Fuel Tanks

- Fig. 10-1 Fuel Tank ..... S/N 800201 & Above

-Continued on Next Page -

**Figure Description S/N Range**

Figure 11 – Front Plow and Accessories

Fig. 11-1	Tie Jammers (All) .....	S/N 800201 & Above
Fig. 11-2-1	Left Ballast Plow .....	S/N 800201 & Above
Fig. 11-2-2	Right Ballast Plow .....	S/N 800201 & Above
Fig. 11-3	Front Plow Carrier .....	S/N 800201 & Above
Fig. 11-4	High Speed V-Plow .....	Option
Fig. 11-5	Snow Curls .....	Option

Figure 12 – **Left** Ballast Wing (See Fig. 17 for Snow Wings)

Fig. 12-1	Ballast Wing Boom .....	S/N 800201-800226, 800228
Fig. 12-1A	Ballast Wing Boom .....	S/N 800227, 800229 & Above
Fig. 12-2	Outer Door .....	S/N 800201 & Above
Fig. 12-3	Inner Door .....	S/N 800201 & Above
Fig. 12-4-1	Front Template Door .....	S/N 800201 & Above
Fig. 12-4-2	Front Template Door – Articulating .....	Option
Fig. 12-5-1	Rear Template Door .....	S/N 800201 & Above
Fig. 12-5-2	Rear Template Door – Articulating .....	Option

Figure 13 – **Right** Ballast Wing (See Fig. 17 for Snow Wings)

Fig. 13-1	Ballast Wing Boom .....	S/N 800201-800226, 800228
Fig. 13-1A	Ballast Wing Boom .....	S/N 800227, 800229 & Above
Fig. 13-2	Outer Door .....	S/N 800201 & Above
Fig. 13-3	Inner Door .....	S/N 800201 & Above
Fig. 13-4-1	Front Template Door .....	S/N 800201 & Above
Fig. 13-4-2	Front Template Door – Articulating .....	Option
Fig. 13-5-1	Rear Template Door .....	S/N 800201 & Above
Fig. 13-5-2	Rear Template Door – Articulating .....	Option

**Figure Description S/N Range**

Figure 15 – Broom and Accessories

Fig. 15-1	Broom Carrier – Chain Drive .....	S/N 800201 – 800235
Fig. 15-1-1	Broom Liner .....	S/N 800201 & Above
Fig. 15-1-2	Broom Shaft & Reel (Chain) .....	S/N 800201 & Above
Fig. 15-2	Broom Carrier – Direct Drive .....	S/N 800236 & Above
Fig. 15-2-1	Broom Housing & Reel .....	S/N 800236 & Above
Fig. 15-3	Stone Deflector .....	S/N 800201 & Above
Fig. 15-3-1	Stone Deflector Cartridges .....	S/N 800201 & Above
Fig. 15-4	Broom Steps .....	Option
Fig. 15-5	Transversing Broom .....	Option

16 – Dust Collector

Fig. 16-1	Dust Collector (Direct Drive) .....	Option
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Figure 17 – Snow Wings and Accessories

Fig. 17-1	175" Snow Wings .....	S/N 800201 & Above
Fig 17-2	Steps .....	Option

Figure 18 – Snow Screw/Blower

Fig 18-1	Snow Screw .....	S/N 800201 & Above
Fig. 18-2	Snow Chute .....	S/N 800201 & Above
Fig. 18-3	Steps .....	Option

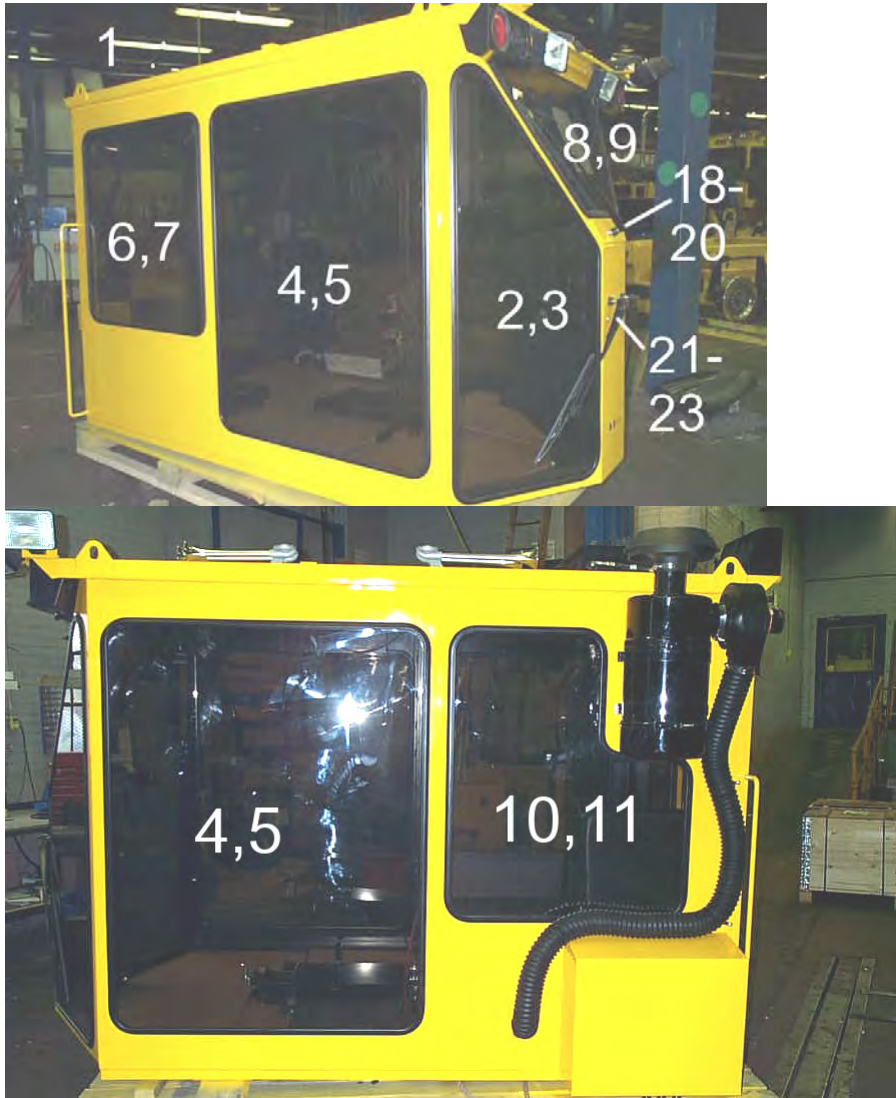
Figure 22 – Turntables

Fig. 22-1	Turntable w/o FRA Lockup .....	S/N 800201 – 800219
Fig. 22-1A	Turntable w/FRA Lockup .....	S/N 800220 & Above
Fig. 22-1A-1	Turntable Warning System .....	Option

⓪ Option on Machines prior to S/N 800236



**FIGURE 1-1. OPERATOR STATION  
Cab and Windows  
S/N 800201 to 800220**



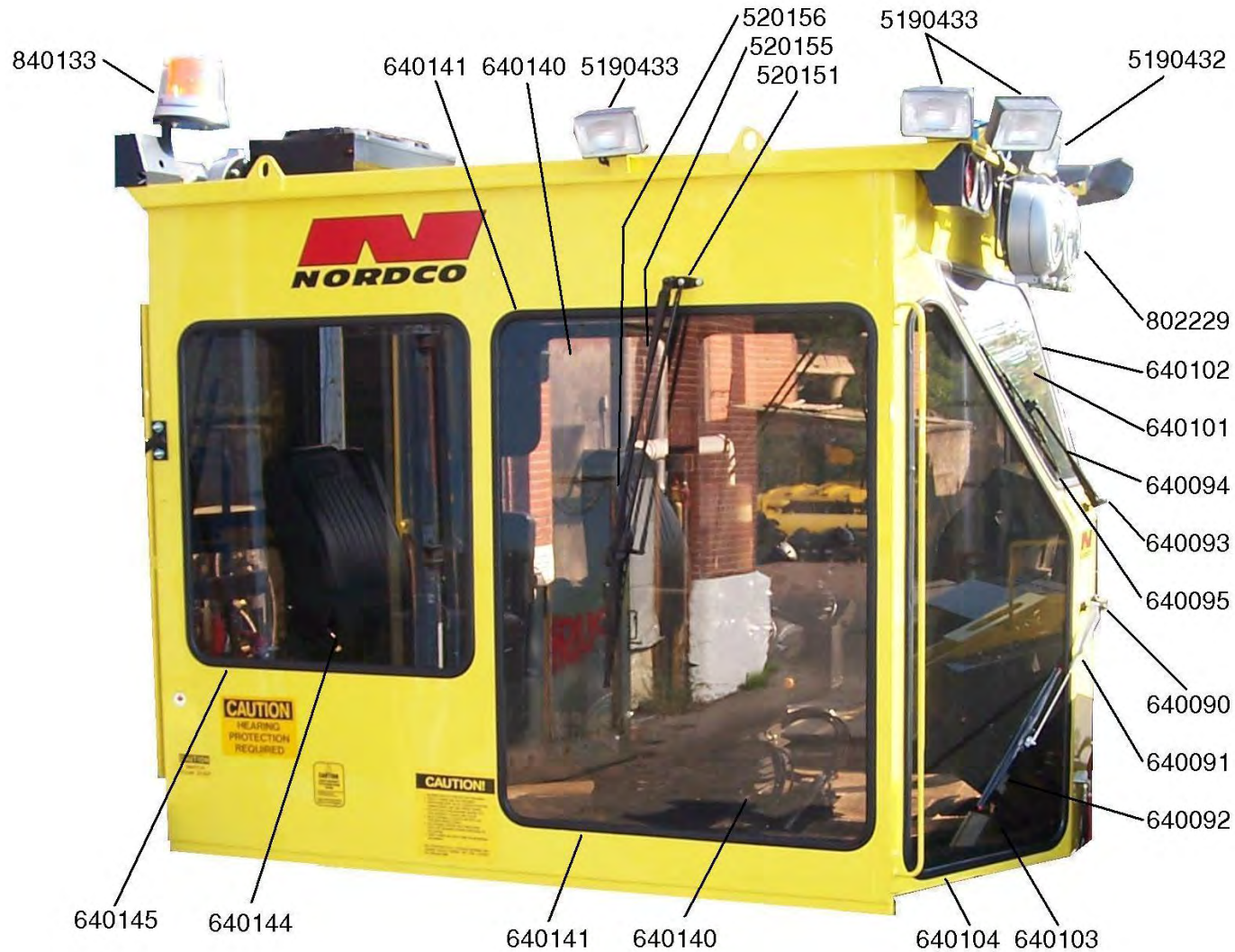


## FIGURE 1-1. OPERATOR STATION Cab and Windows S/N 800201 to 800220

ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1	802060	Cab (shell with windows/door) .....	1
2	640103	Window, Front Right/Left .....	2
3	640104	Gasket, Front Window .....	2
4	640140	Window, Right/Left Side .....	2
5	640141	Gasket, Side Window .....	2
6	640144	Window, Right Side – Rear .....	1
7	640145	Gasket, Right Side Window .....	1
8	640101	Window, Front Center .....	1
9	640102	Gasket, Center Window .....	1
10	640142	Window, Left Side – Rear .....	1
11	640143	Gasket, Left Side Window .....	1
12	640146	Window, Rear Large .....	1
13	640147	Gasket, Rear Window (Large) .....	1
14	640148	Door, Rear .....	1
15	640136	Window, Rear Door .....	2
16	640137	Gasket, Rear Door Window .....	2
17	640149	Latch, Rear Door .....	1
18	640093	Motor, Front Upper Wiper .....	1
19	640094	Arm, Front Upper Wiper .....	1
20	640095	Blade, Front Upper Wiper .....	1
21	640090	Motor, Front Lower Wiper .....	2
22	640091	Arm, Front Lower Wiper .....	2
23	640092	Blade, Front Lower Wiper .....	2
24*	520150	Side Windshield Wiper Kit (Option) ....	2
25	640151	Motor, Rear Wiper .....	1
26	640152	Arm, Rear Wiper .....	1
27	640153	Blade, Rear Wiper .....	1

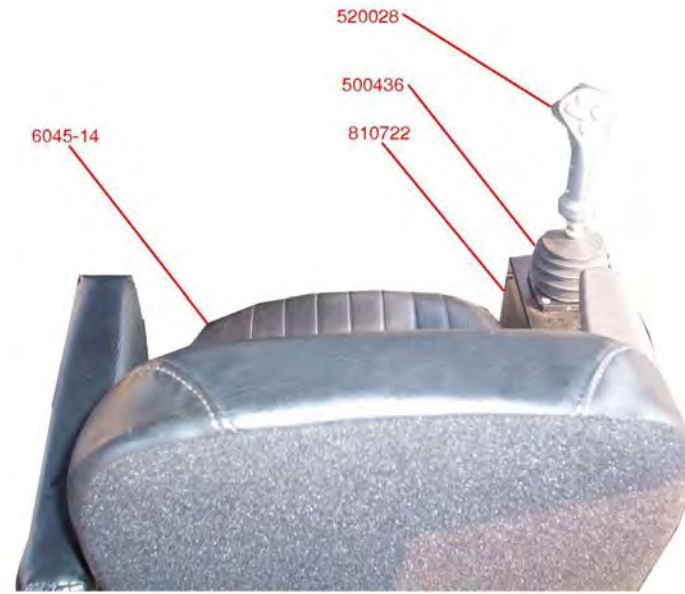
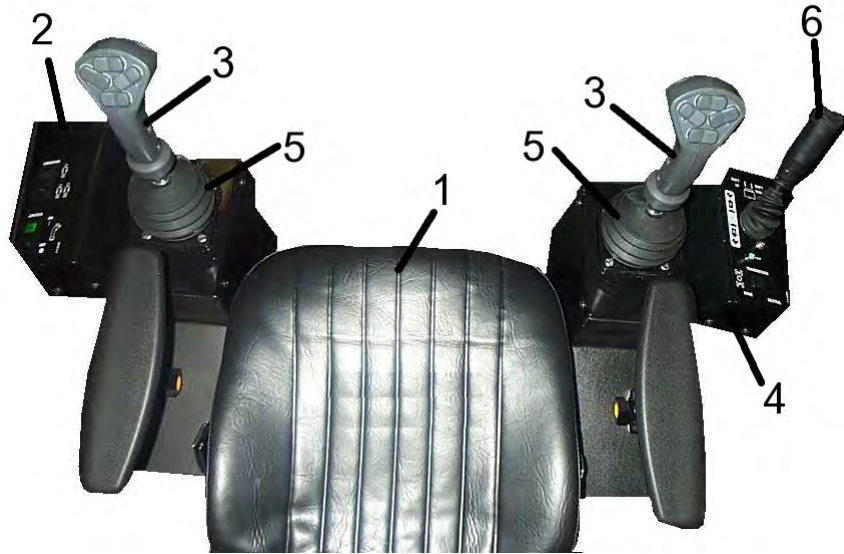


**FIGURE 1-1A. OPERATOR STATION  
Tall Cab and Windows  
S/N 800221 and Above**



NOTE: Side window wiper assembly is an option.

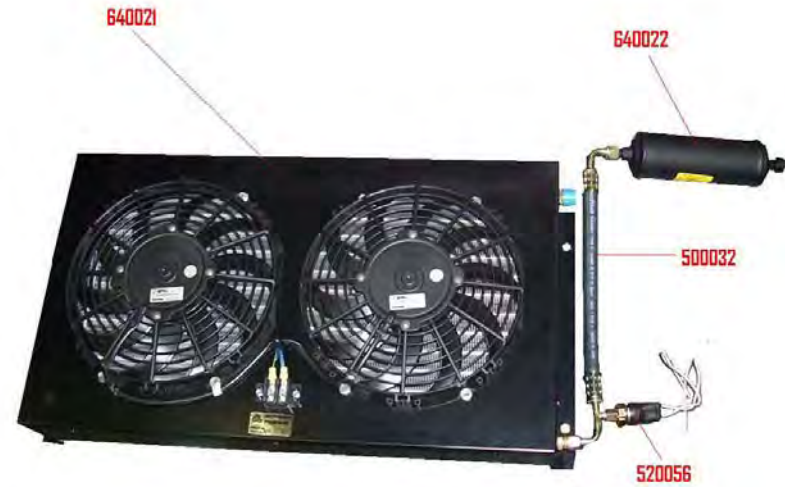
**FIGURE 1-2. OPERATOR STATION  
Seat and Controls**



REAR SEAT

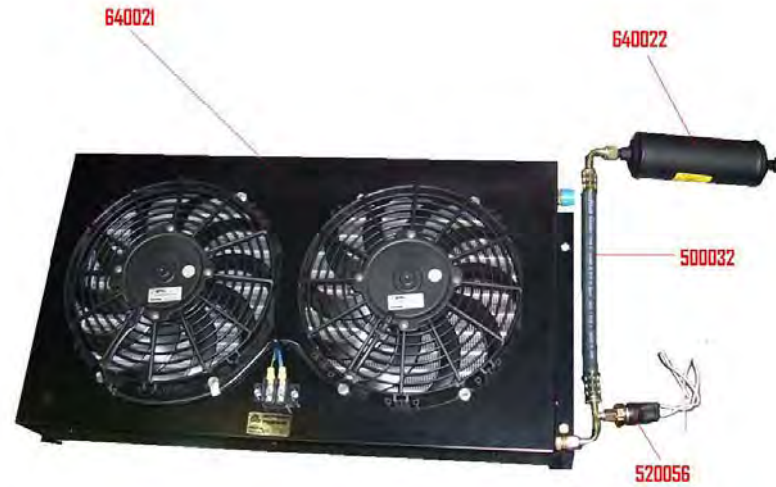
ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1	6045-15	Seat, Front.....	1
--	520053	Seat Harness.....	1
2	802177	Left Hand Controller Box .....	1
3	520028	Hand Controller .....	3
4	802178	Right Hand Controller Box (Front Seat).....	1
5	500436	Joystick Valve.....	3
6	520026	EDC Controller Joystick.....	1

**FIGURE 1-3. OPERATOR STATION  
A/C & Heat  
S/N 800201 – 800220**





**FIGURE 1-3A. OPERATOR STATION  
A/C & Heat  
S/N 800221 and Above**



**FIGURE 1-4. OPERATOR STATION  
Cab Pressurizer  
S/N 800201 - 800228**



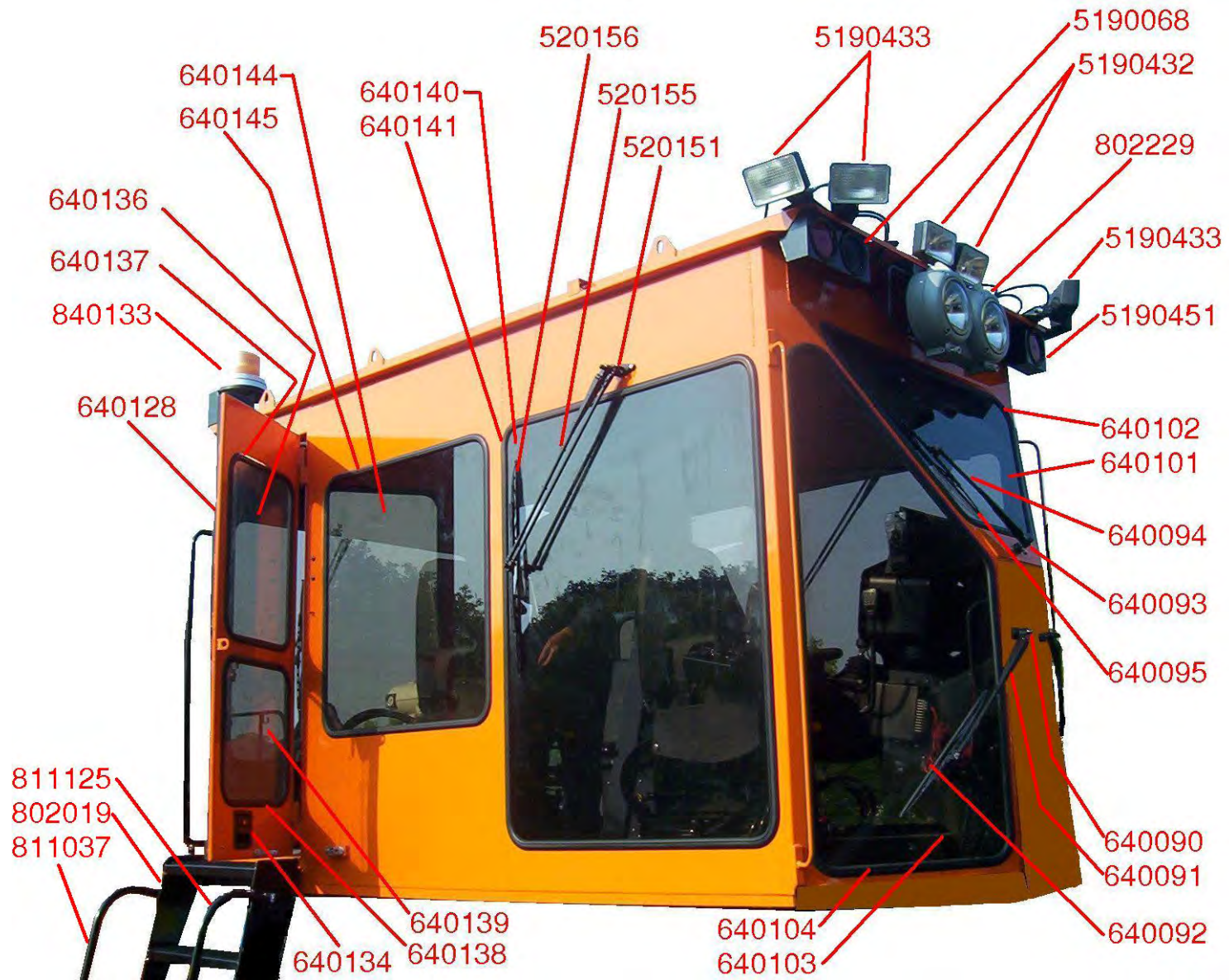
**FIGURE 1-5. OPERATOR STATION  
Perimeter Lighting (Option)**



NOTE: This assembly is used on snow machines equipped with a V-Plow.

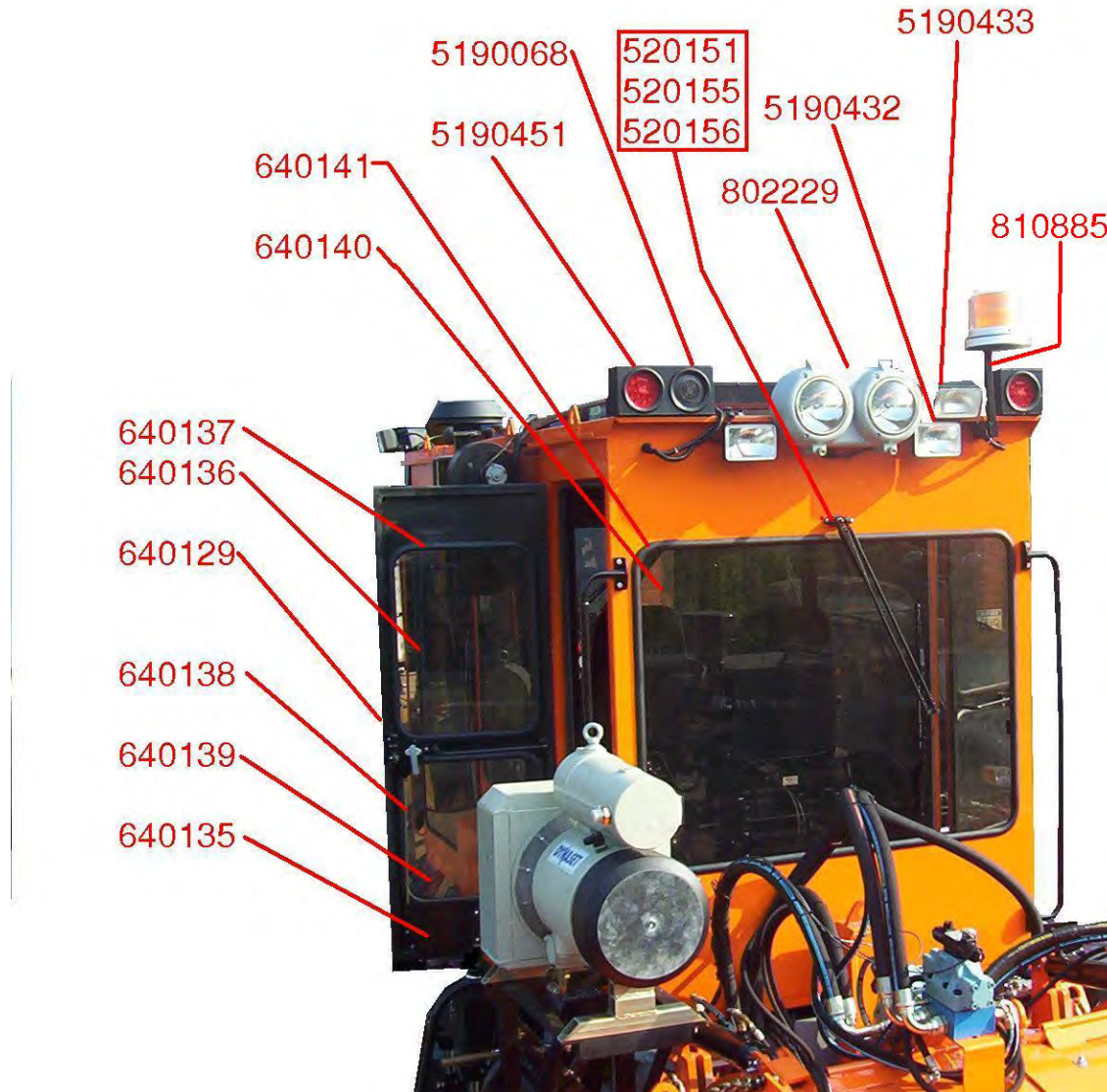


**FIGURE 1-7. OPERATOR STATION  
Extended Cab and Windows**

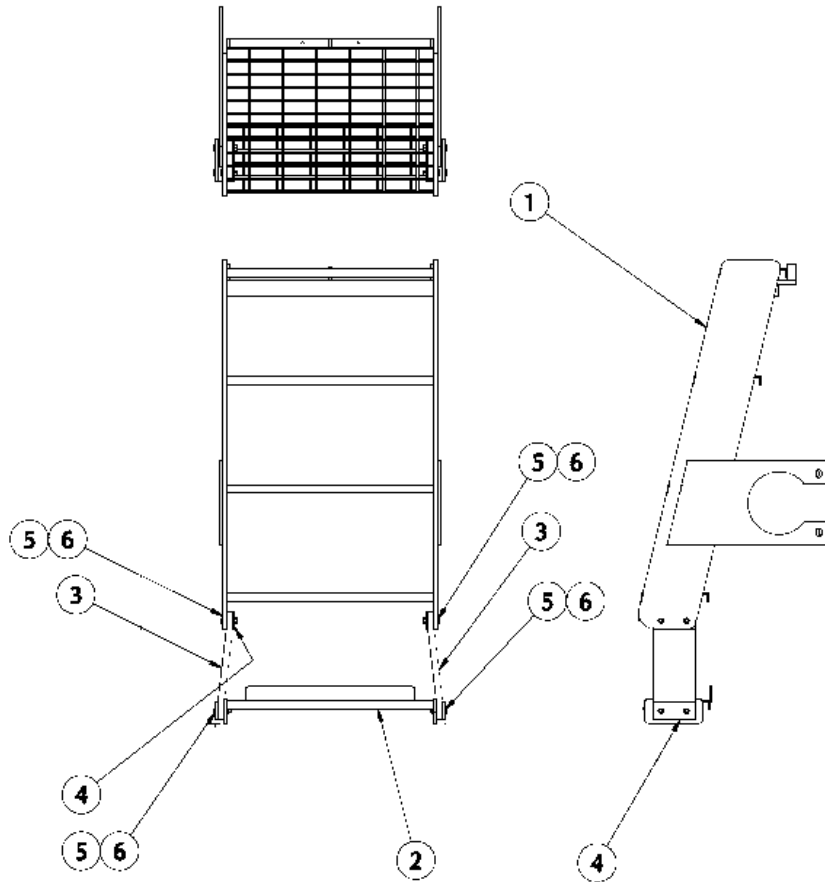




## FIGURE 1-7. OPERATOR STATION Extended Cab and Windows

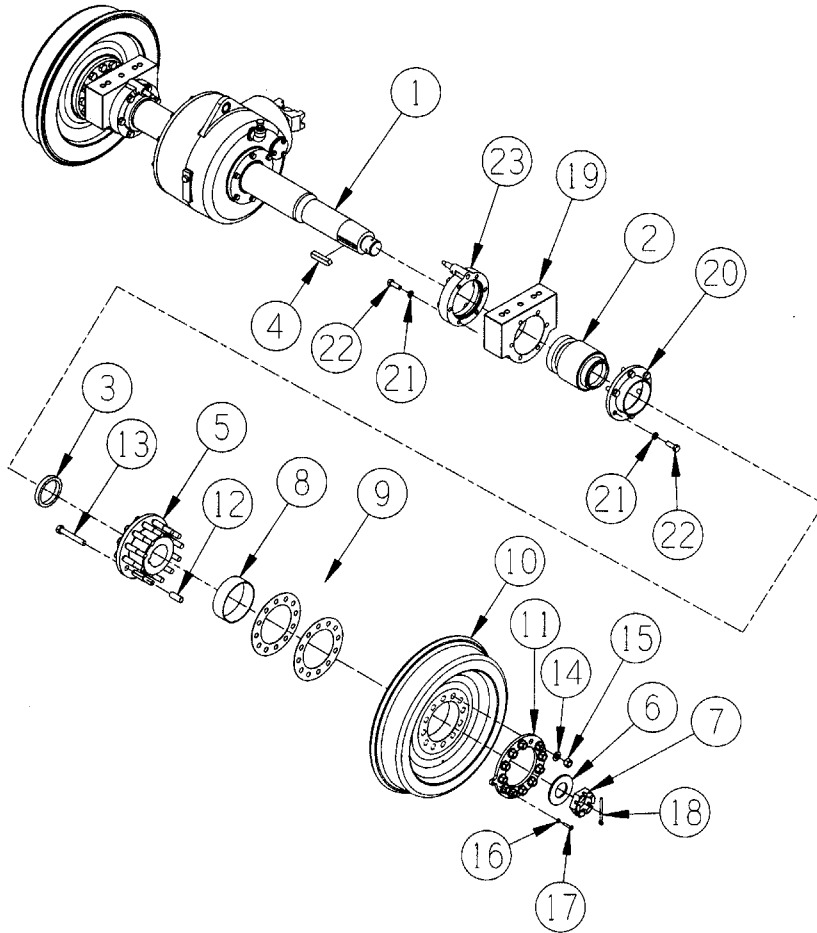


## FIGURE 1-7-1. OPERATOR STATION Extended Cab Steps (Option)



ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1	700239	Step Frame.....	1
2	700241	Lower Step .....	1
3	802042	Rubber Step Hanger .....	2
4	810995	Step Retainer .....	4
5	0335	Hex Bolt 3/8 x 1-3/4 Grade 5.....	8
6	2660	Stover Nut, 3/8 .....	8

**FIGURE 2-1. AXLE  
S/N 800201 and Above**



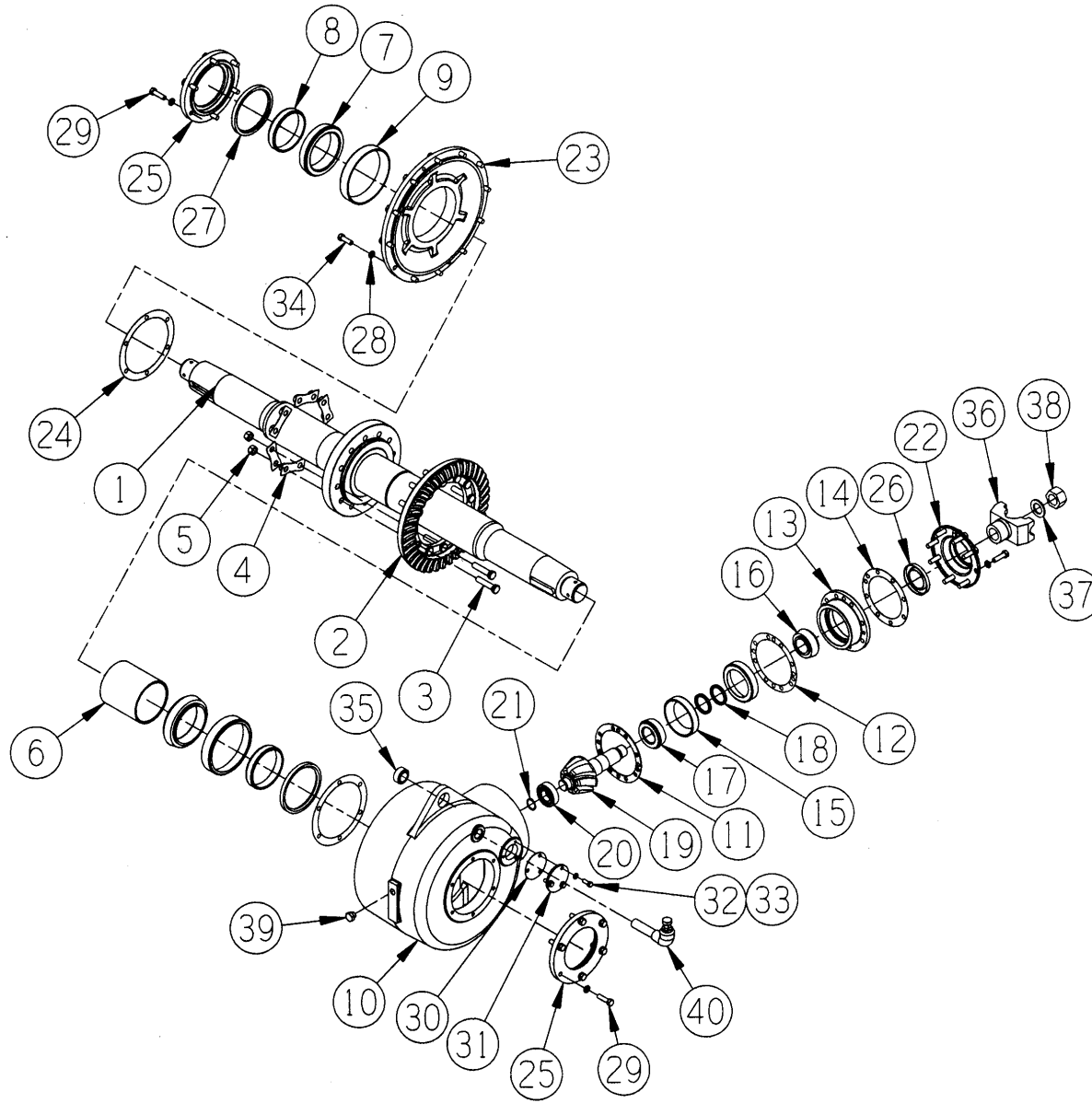
ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1	B-16460	Axle Assembly.....	1
2	4139	Journal Bearing .....	2
3	A-16458	Spacer.....	2
4	A-16459	Key.....	2
5	B-16456	Wheel Hub .....	1
5B	B-16455	Wheel Hub .....	1
6	7007	Timken Washer .....	2
7	7301	Slotted Nut .....	2
8	6069	Bushing .....	1
9	A-16457	Washer.....	2
10	E-7211-D	24-Inch Wheel .....	2
11	A-16497	Plate .....	2
12	6070	Bushing .....	13
13	0923	3/4 x 5 Bolt .....	24
14	2740	13/16 x 1-1/2 OD Washer .....	24
15	2670	3/4" Stover Hex Nut.....	24
16	2504	5/16" Nut.....	1
17	2028	Square Head Bolt.....	1
18	2850	Cotter Pin 3/8 x 4 .....	2
19	C-32026	Bearing Housing.....	2
20	A-15351	Bearing Cover Assembly.....	2
21	2766	5/8" Lockwasher.....	24
22	0777	5/8 x 1-3/4 Bolt.....	24
23	A-24375	Bracket.....	2
24	05CP-8	Hex Head Plug.....	1
25	A-16462	Breather Assembly.....	1

See Figure 2-2 for Axle Drive Housing





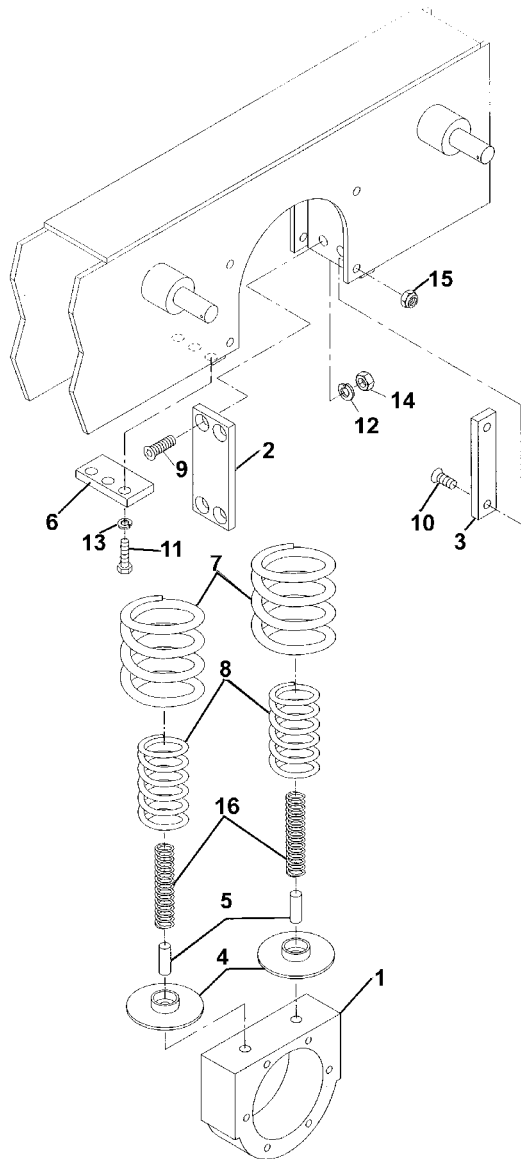
**FIGURE 2-2. DRIVE HOUSING**  
S/N 800201 and Above



## FIGURE 2-2. DRIVE HOUSING S/N 800201 and Above

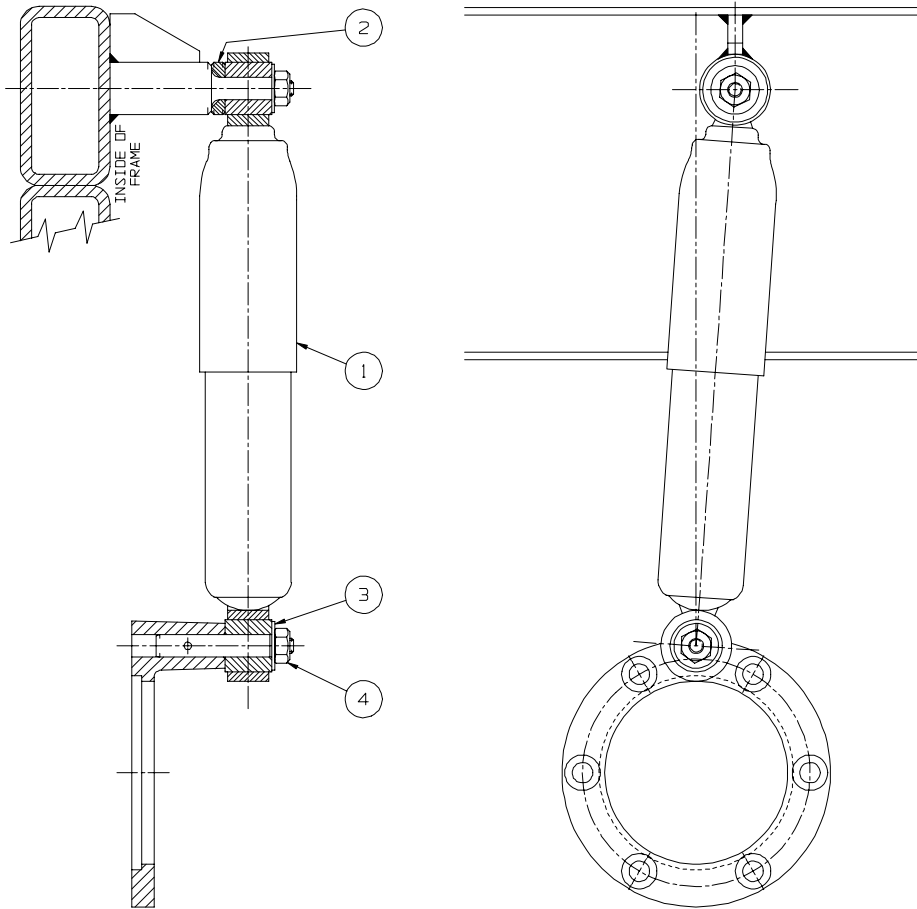
ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE	ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1	B-16460	Axle Assembly .....	1	35	4120	Spherical Self-Aligning Bearing.....	1
2	C-16325	Hypoid Gear .....	1	36	9512	End Yoke.....	1
3	A-16316	Bull Gear Bolt .....	12	37	A-16464	Yoke Washer.....	1
4	B-16332	Security Washer .....	6	38	2681	1-3/8"-12 (2B) Stover Hex Nut .....	1
5	2669	5/8" Stover Hex Nut.....	12	39A	05CP-8	Hex Head Plug (Front Drive).....	1
6	A-16308	Spacer .....	1	39B		Speedo Pickup (Rear Drive) .....	1
7	4137	Cone .....	2	40	A-16462	Breather Assembly.....	1
8	A-16181	Sleeve.....	2				
9	4136	Cone .....	2				
10	E-16301	Axle Housing .....	1				
11	B-16314	Cage Spacer.....	1				
12	B-16313	Shims – Cage .....	1				
13	C-16303	Cage Pinion .....	1				
14	B-16463	Gasket .....	1				
15	4135	Cone .....	2				
16	4138	Cone .....	1				
17	4134	Cone .....	1				
18	A-16312	Bearing Spacer.....	2				
19	C-16324	Hypoid Pinion .....	1				
20	4131	Roller Bearing.....	1				
21	7643	Retaining Ring .....	1				
22	C-16319	Bearing Cage.....	1				
23	D-16302	End Cover.....	1				
24	B-16184	Shim .....	2				
25	B-16306	Output Cover .....	2				
26	3900-35	Seal .....	1				
27	3900-34	Seal .....	2				
28	2764	1/2" Lockwasher .....	32				
29	0563	1/2" x 1-3/4 Bolt .....	20				
30	A-16315	Gasket .....	1				
31	A-16307	Cover .....	3				
32	7320	Seal Washer .....	3				
33	0323	3/8 x 1 Bolt.....	3				
34	0559	1/2 x 1-1/2 Bolt .....	12				

## FIGURE 2-3. SUSPENSION S/N 800201 and Above



ITEM NO.	PART NO.	DESCRIPTION	UNITS PER ASSEMBLY
1	C-32026	Bearing Housing .....	Ref
--	840042	Wear Plate Kit.....	1
2	B-25372	.. Front Wear Plate .....	2
3	B-25373	.. Side Wear Plate.....	4
4	A-32791	Spacer .....	2
5	A-32792	Pin .....	2
6	A-25371	Stop Plate .....	2
7	9521	Spring, Outer .....	2
8	9547	Spring, Inner .....	2
9	2191	Screw.....	8
10	2192	Screw.....	8
11	0885	Hex Head Bolt .....	6
12	2766	Lock Washer.....	8
13	2768	Lock Washer.....	6
14	2514	Hex Nut.....	8
15	2686-1	Stover Nut.....	8
16	9548	Suspension Spring .....	2

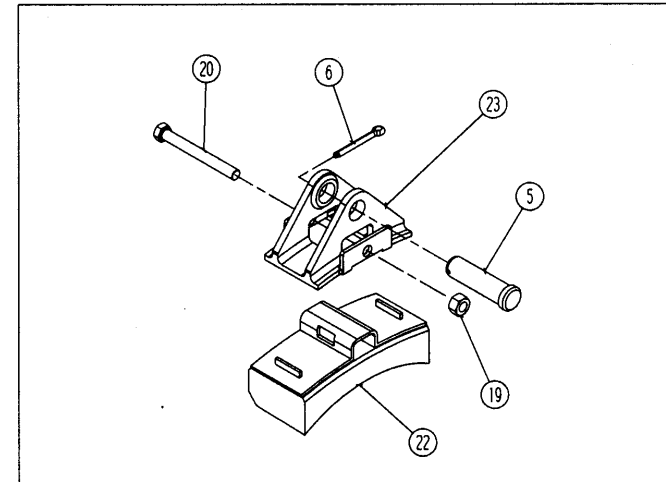
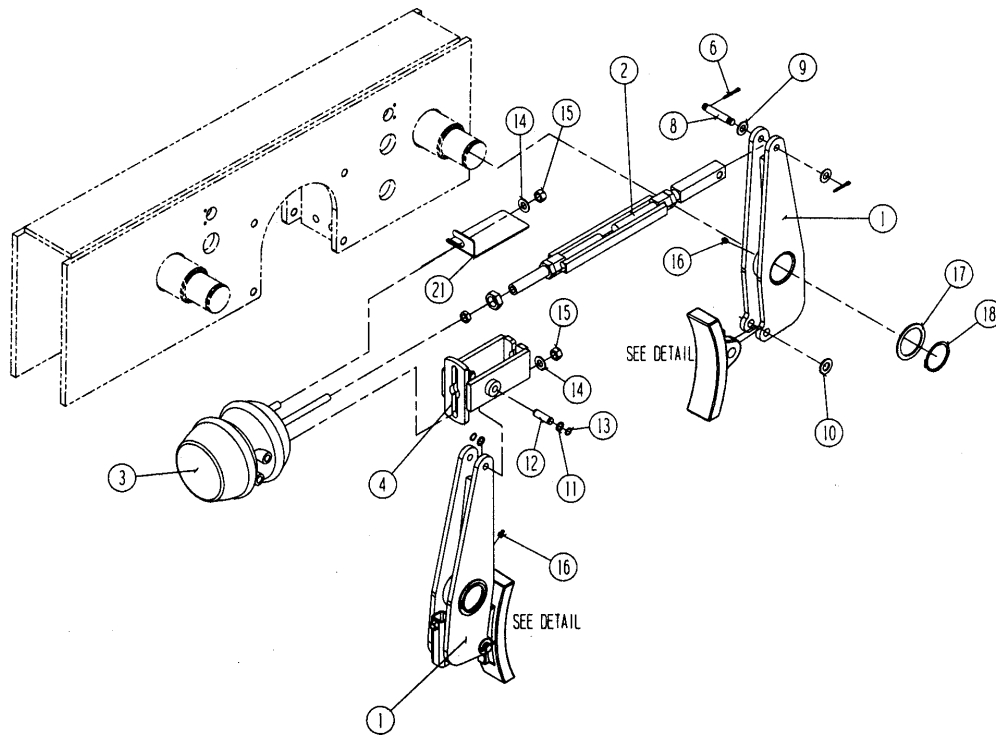
## FIGURE 2-5. SHOCK ABSORBER S/N 800201 and Above



ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1	G-170	Shock Absorber .....	4
2	A-25692	Spacer .....	4
3	2706	Plain Washer, 1/2 .....	8
4	2664	Stover Nut, 1/2 .....	8



**FIGURE 3-1. BRAKES**  
**Cobra Style – Single Cannister**  
**S/N 800201-800235, 800237**

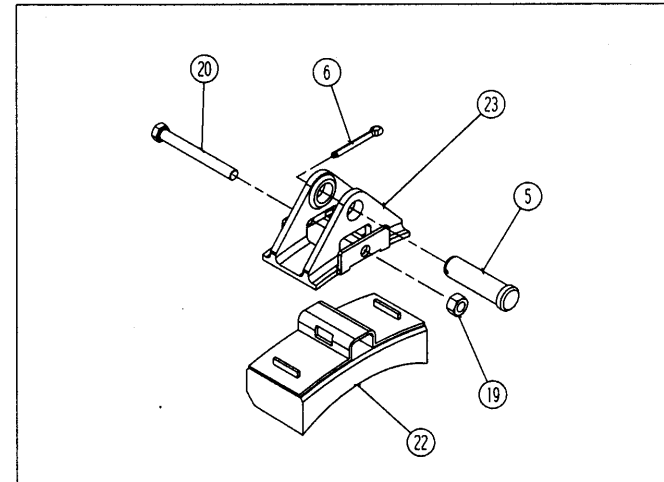
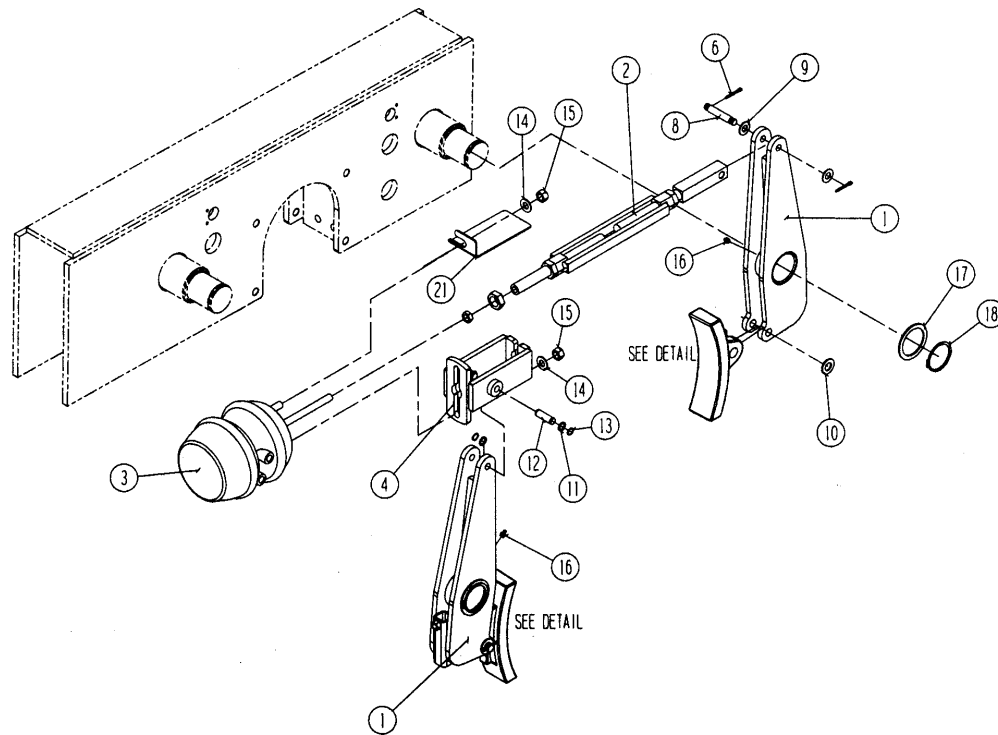




**FIGURE 3-1. BRAKES**  
**Cobra Style – Single Cannister**  
**S/N 800201-800235, 800237**

ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1	802300	Brake Arm.....	8
--*	2975	. Spring (on bottom).....	1
2	B-33592	Turnbuckle Assembly .....	4
3	A-33607PROD	Brake Chamber.....	4
4	C-33585	Chamber Mount Assembly .....	4
5	802303	Brake Arm Pin.....	8
6	2819	Cotter Pin 3/16 x 2-1/4.....	16
7	2816	Cotter Pin 3/16 x 1-1/2.....	8
8	A-33609	Pin.....	4
9	2739	Washer .....	8
10	2740	Washer .....	16
11	7663	Support Washer.....	16
12	A-33608	Pin.....	8
13	7649	Snap Retaining Ring.....	16
14	2755-2	Washer, 5/8 Flat .....	8
15	2668	Stover Nut.....	8
16	3004	Grease Fitting .....	8
17	7665	Support Washer.....	8
18	7664	Retaining Ring .....	8
19	2664	Hex Nut 1/2".....	8
20	603	Hex Bolt 1/2" x 4-1/2".....	8
21	800132	Brake Cover Plate.....	4
22	7090 0080	Brake Shoe (24" Cobra).....	8
23	2180 0099	Brake Head Bracket.....	8

**FIGURE 3-1A. BRAKES**  
**Cobra Style – Single Cannister**  
**S/N 800236, 800238 & Above**



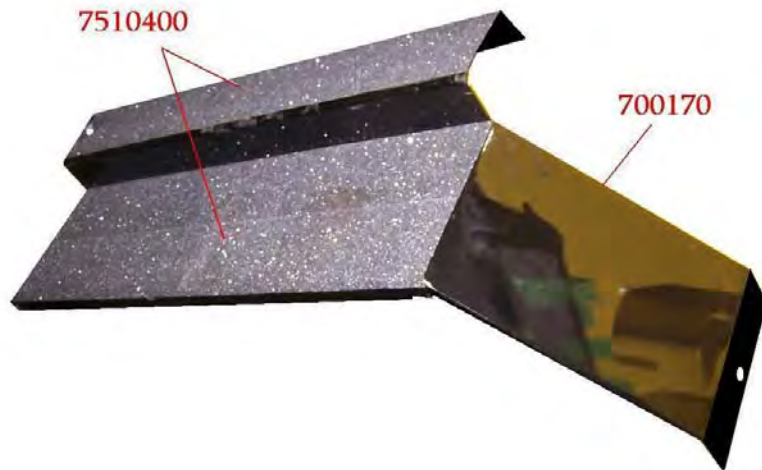


**FIGURE 3-1A. BRAKES  
Cobra Style – Single Cannister  
S/N 800236, 800238 & Above**

ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1	700277	Brake Arm.....	8
--*	2975	. Spring (on bottom).....	1
2	B-33592	Turnbuckle Assembly .....	4
3	A-33607PROD	Brake Chamber.....	4
4	C-33585	Chamber Mount Assembly .....	4
5	802303	Brake Arm Pin.....	8
6	2819	Cotter Pin 3/16 x 2-1/4.....	16
7	2816	Cotter Pin 3/16 x 1-1/2.....	8
8	A-33609	Pin.....	4
9	2739	Washer .....	8
10	2740	Washer .....	16
11	7663	Support Washer.....	16
12	A-33608	Pin.....	8
13	7649	Snap Retaining Ring.....	16
14	2755-2	Washer, 5/8 Flat .....	8
15	2668	Stover Nut.....	8
16	3004	Grease Fitting .....	8
17	7665	Support Washer.....	8
18	7664	Retaining Ring .....	8
19	2664	Hex Nut 1/2".....	8
20	603	Hex Bolt 1/2" x 4-1/2".....	8
21	800132	Brake Cover Plate.....	4
22	7090 0080	Brake Shoe (24" Cobra).....	8
23	2180 0099	Brake Head Bracket.....	8

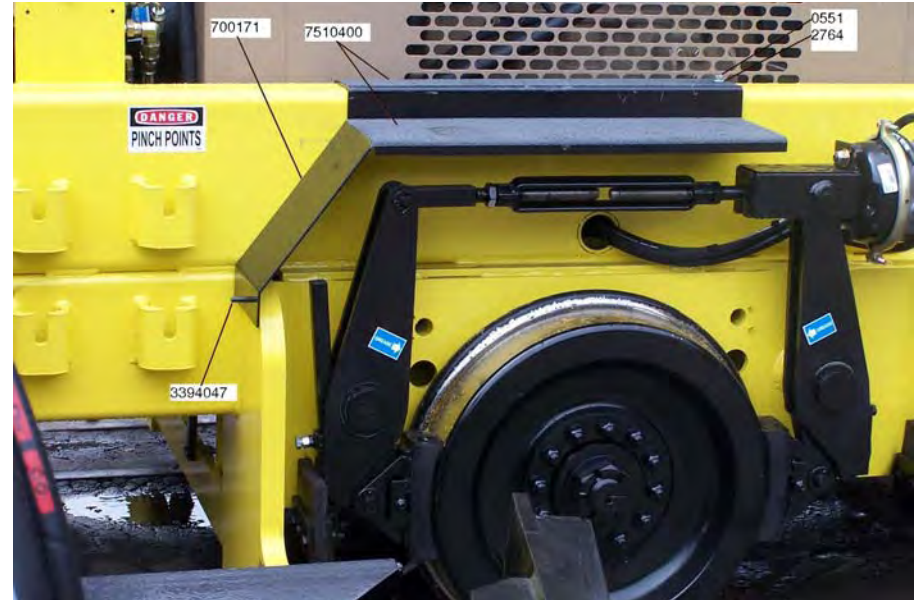
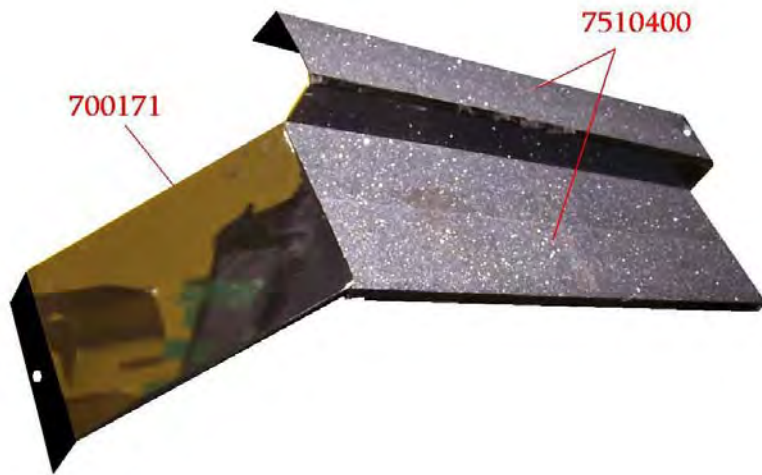


**FIGURE 3-1-1. BRAKES  
Fender Cover (Option)  
S/N 800201 and Above**



**LEFT Fender**

**FIGURE 3-1-1. BRAKES  
Fender Cover (Option)  
S/N 800201 and Above**



RIGHT  
FENDER

## FIGURE 4-1. PNEUMATIC SYSTEMS Air Dryer S/N 800201 and Above

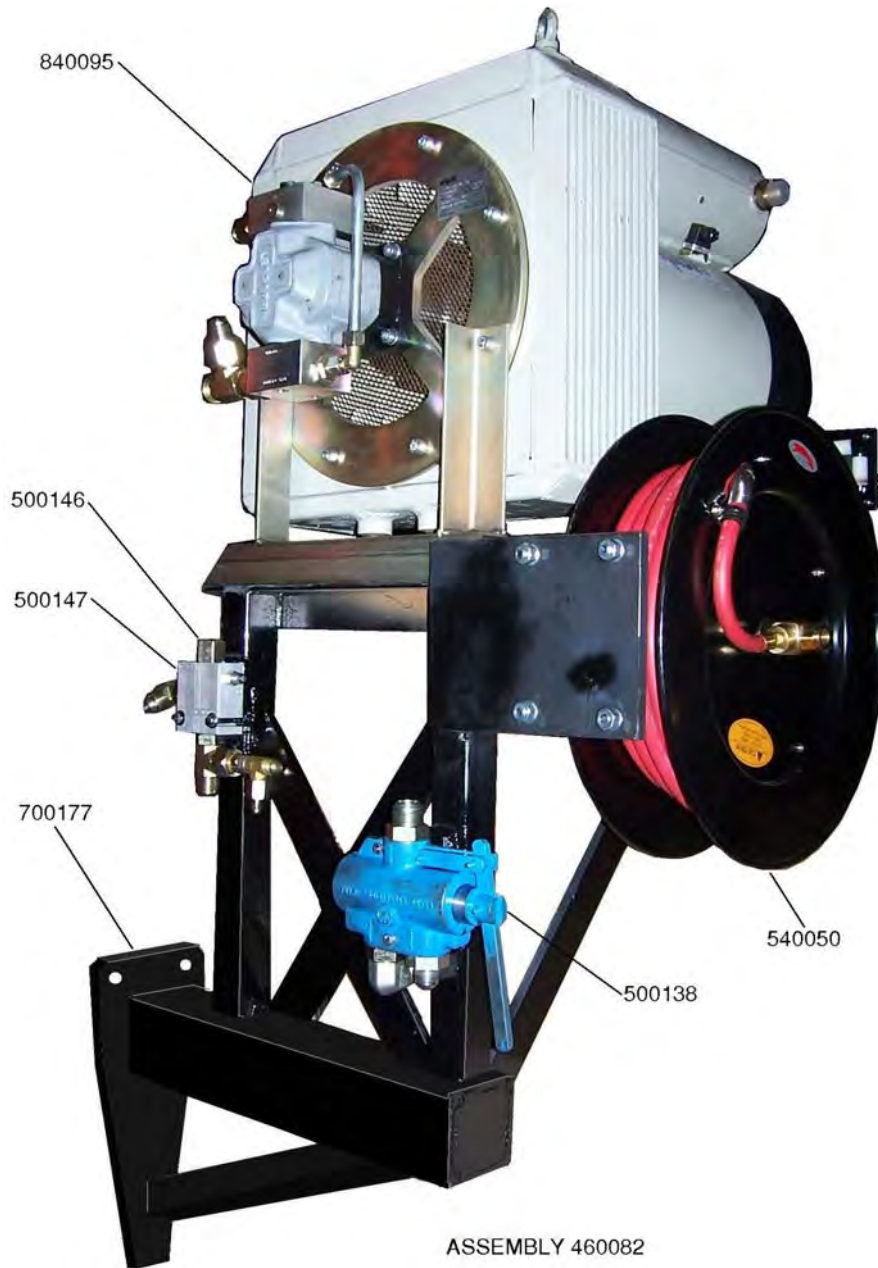


ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1	F-399-5-24V	Air Dryer .....	1
2	0103-8-8	Adapter .....	1
3	3903-12-12	Elbow .....	1
4	0103-8-12	Adapter .....	1
5	0103-4-6	Adapter .....	1
Mounting Hardware			
7	0187	Hex Bolt 5/16 x 3/4 .....	4
8	2161	5/16 Lockwasher .....	4
9	2734	5/16 SAE Washer .....	4

# FIGURE 4-2. PNEUMATIC SYSTEMS

## Air Compressor (Option)

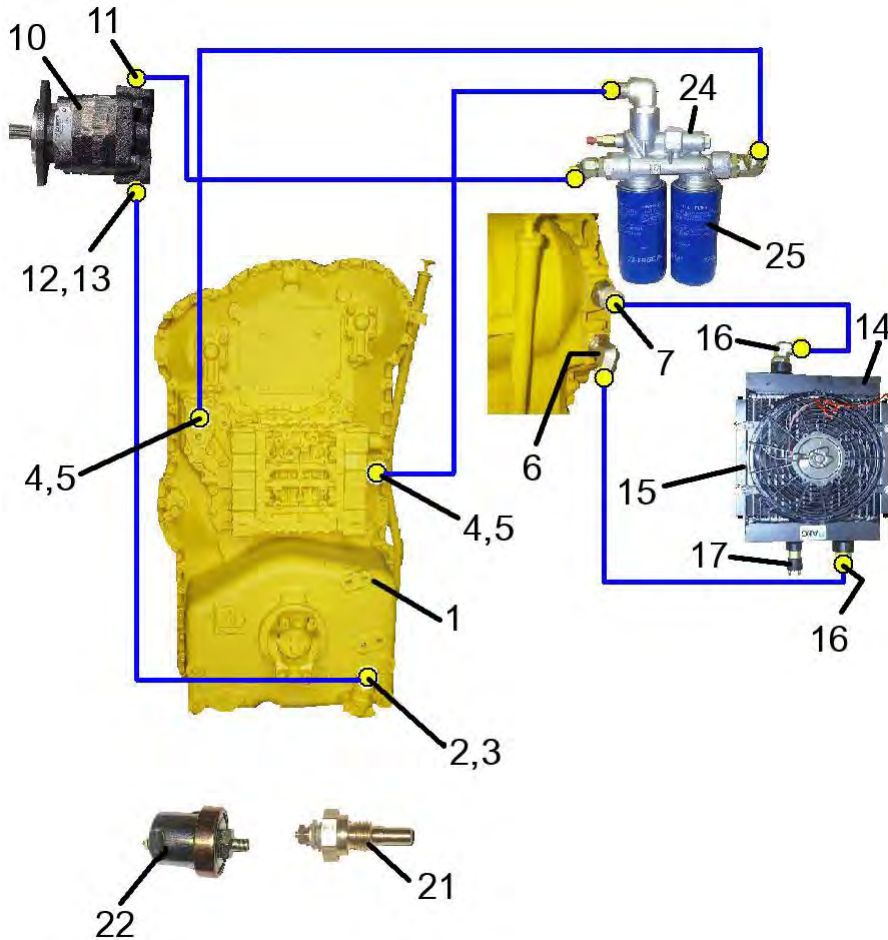
### S/N 800201 and Above



ASSEMBLY 460082



**FIGURE 5-1. TRANSMISSION  
S/N 800201 and Above**



ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1	580020	Transmission.....	1
2	500019	Adapter,-20 O-Ring/1-1/2" Barb .....	1
3	3854	Hose Clamp .....	1
4	0603-12-16	Reducer.....	2
5	9068-12-26	Adaptor, 26MM to 12JIC .....	2
6	0503-16-16	Fitting, Transmission .....	1
7	2503-16-16	Fitting, Transmission .....	1
8*	1484-50	M2x2.5x 90mm bolt.....	8
9	2775-3	3/4 Alloy Washer .....	8
10	500011	Transmission Pump .....	1
11	2503-16-16	Elbow,90 Deg O-Ring/Flare -16 .....	1
12	500019	Adapter,-20 O-Ring/1-1/2" Barb .....	1
13	3854	Hose Clamp .....	1
14	500381	Transmission Oil Cooler.....	1
15	802132-5	Oil Cooler Mounting.....	1
16	0503-16-16	Fitting, Transmission .....	2
17	520104	Switch, Temperature (180°).....	1
18*	0083	1/x x 1-3/4 Bolt .....	4
19*	2502	1/4 Nut.....	4
20*	2760	1/4 Lockwasher .....	4
21	5193968	Transmission Temp Sending Unit.....	1
<del>22A</del>	<del>5193970</del>	<del>Transmission Oil Pressure Sender .....</del>	<del>4</del>
22B	580042	Transmission Oil Pressure Sender .....	1
23*	580027	Transmission Motor Spacer .....	1
24	580033	Transmission Filter Head .....	1
25	660023	Transmission Filter.....	2
26*	700257	Transmission Oil Cooler Fan Guard .....	1

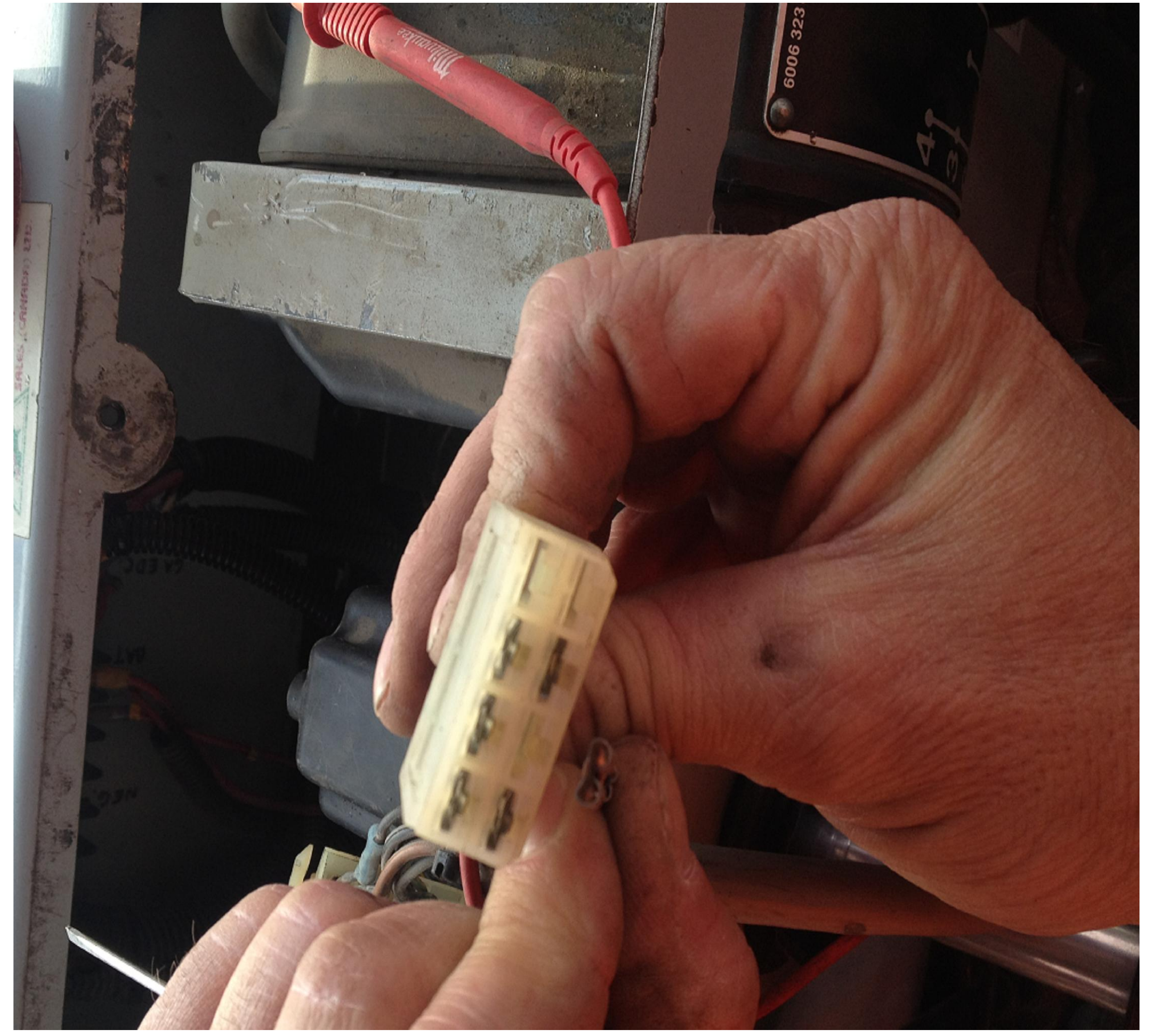
See next page for Temperature Switch Settings.

Ⓚ Item 22A is no longer available as a repair part item. First time replacement of the sender will require that you purchase a new transmission pressure gauge P/N 640063

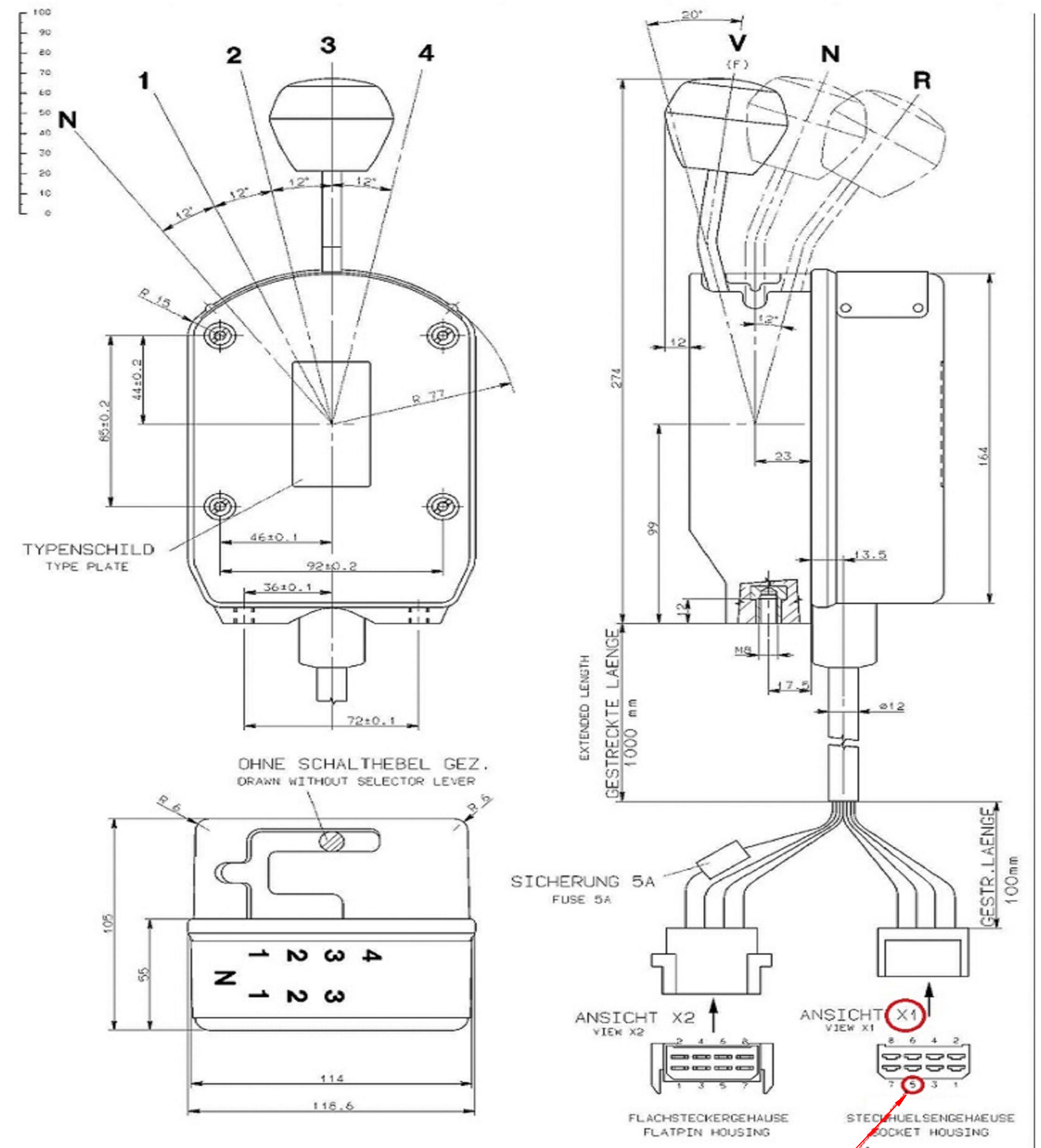


PROCEDURE TO DISENGAGE REVERSE GEARS:

1. OPEN THE DASH INSIDE THE CAB.
2. EXPOSE THE 2 CONNECTORS AT THE BACK OF THE TRANSMISSION CONTROLLER.
3. ELIMINATE PIN #5 FROM CONNECTOR X1(SHOWN ON PICTURE AND ZF TRANSMISSION CONTROLLER SCHEMATIC) AT BOTH CONTROLLER AND MATING HARNESS ENDS.
4. INSULATE BOTH LUG AND WIRE AFTER REMOVAL.



ZF TRANSMISSION CONTROLLER SCHEMATIC



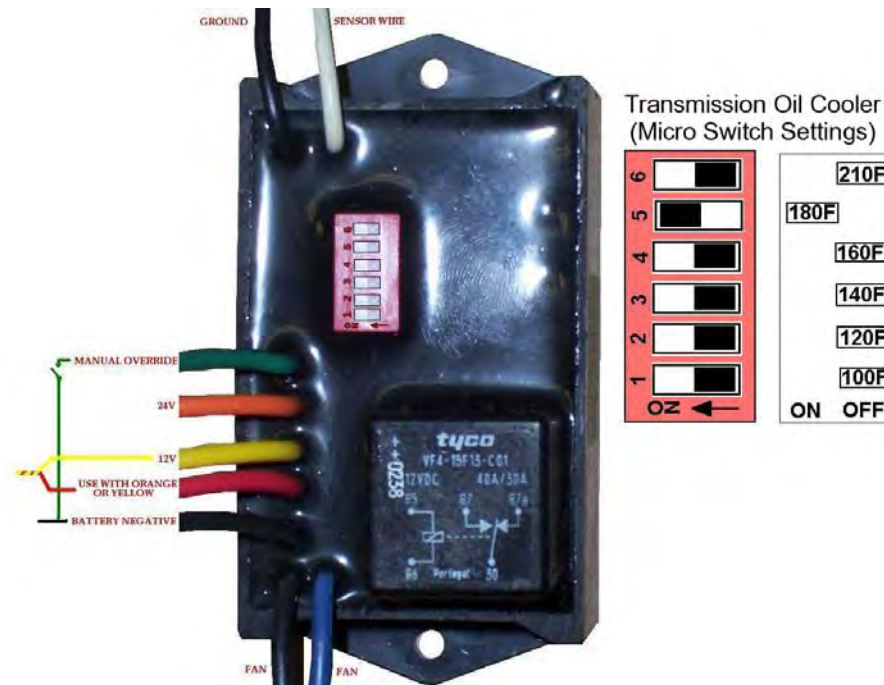
X1 CONNECTOR, PIN #5

CUSTOMARY: ALL DIMENSIONS IN INCHES					
IMPLIED TOLERANCES		PRODUCT: M2			
FRACTION	± .18	DESCRIPTION: <b>DISCONNECT, REVERSE GEAR</b>			
X	± .06	SIZE	SCALE	DRAWING CODE NUMBER	REV.
XX	± .03	<b>D</b>	<b>NTS</b>	<b>97802000</b>	<b>-</b>
XXX	± .010	ASSEMBLY:		SHEET 1 OF 1	
NEW ISSUE	CP	DATE: 09-OCT-12		600793	
MF	REV	CHANGE	DRAWN BY:	CHECKED BY:	E.C.O.#

DATE: 09-OCT-12	CHECKED BY:	E.C.O.#	FLANGE ANGLES 45°
DATE:	DATE:	DATE:	DATE:



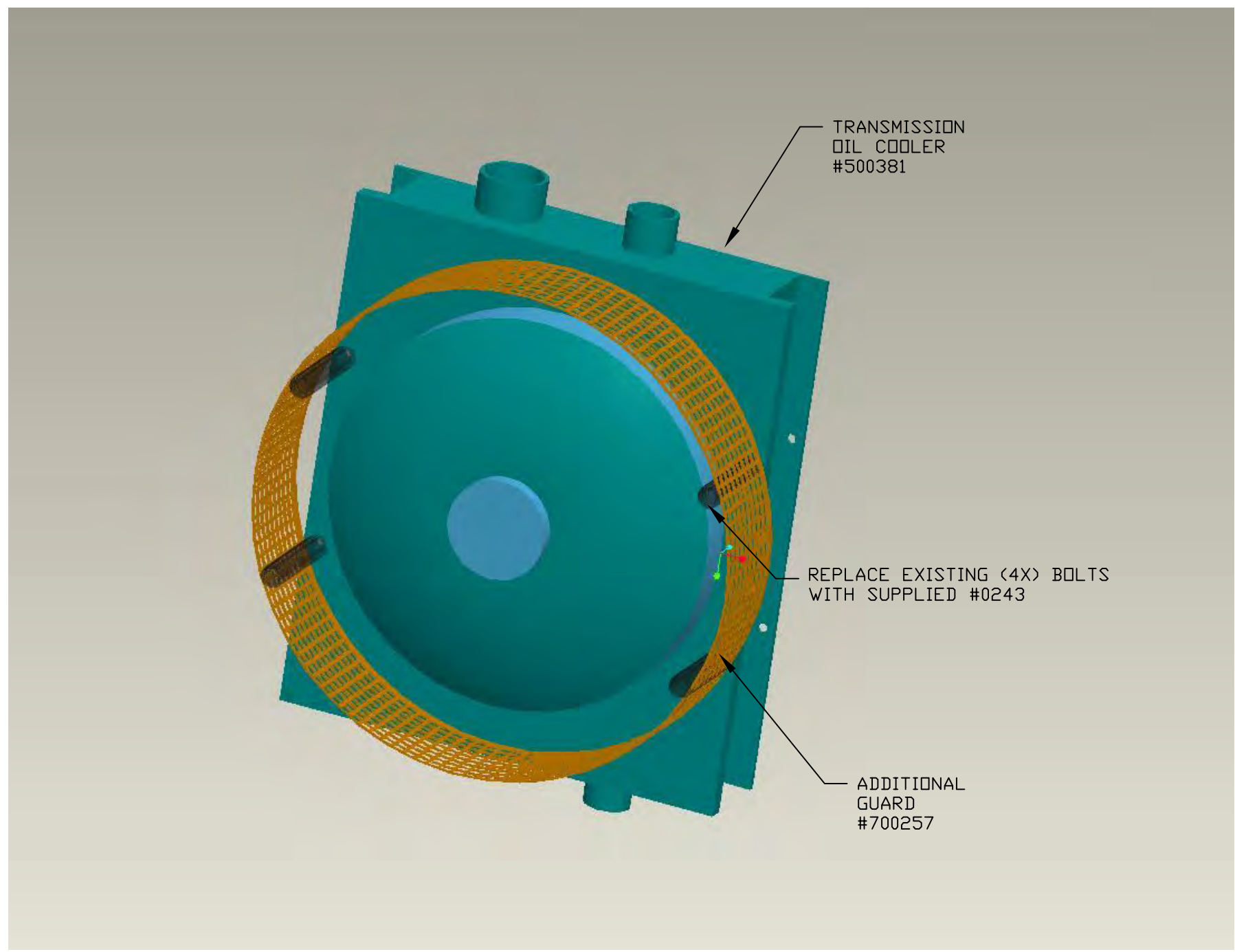
**FIGURE 5-1. TRANSMISSION  
S/N 800201 and Above**



NO. 480120

SHEET NO. 1/1

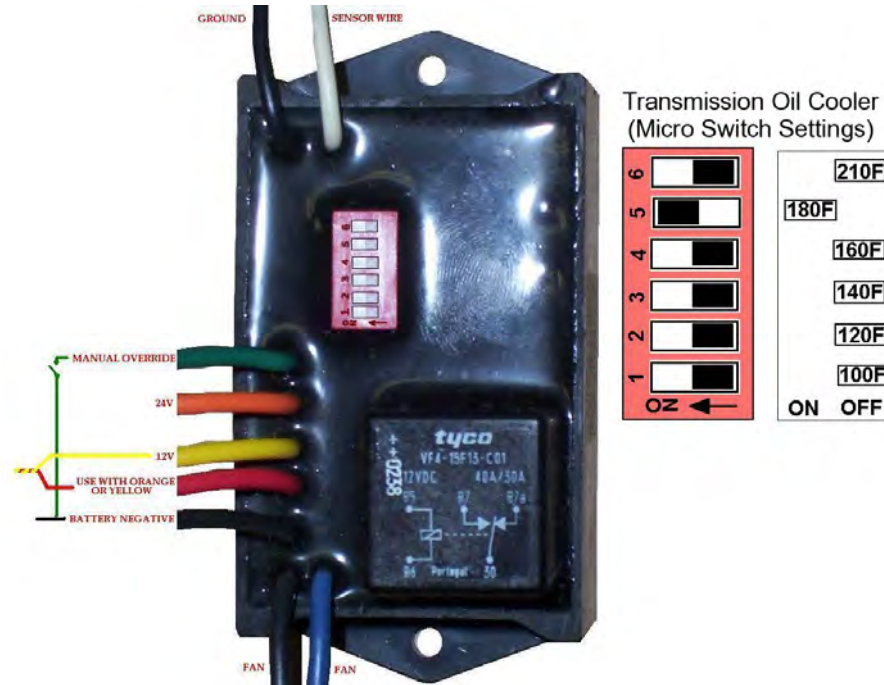
ALL INFORMATION CONTAINED ON THIS DRAWING IS CONSIDERED TO BE BOTH CONFIDENTIAL AND PROPRIETARY BY NORDCO INC. NO USE OR REPRODUCTION THEREOF MAY BE MADE WITHOUT THE EXPRESS WRITTEN CONSENT OF NORDCO INC.



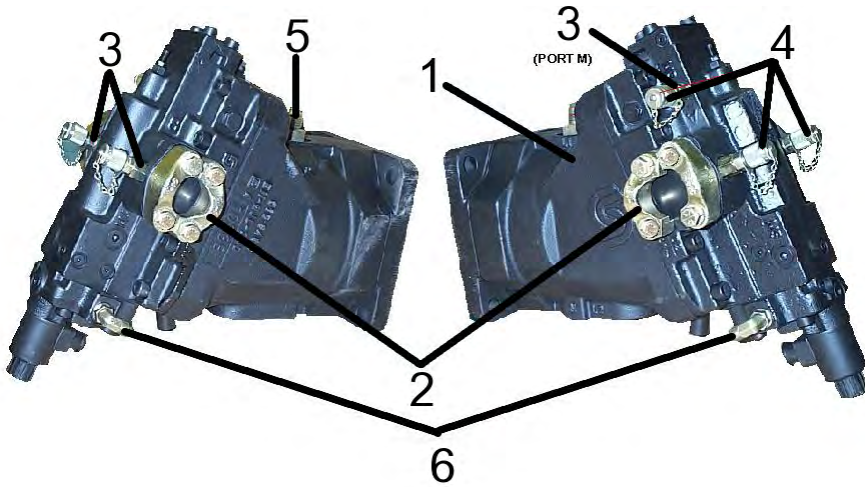
CUSTOMARY: ALL DIMENSIONS IN INCHES			 THIRD ANGLE PROJECTION
	PRODUCT: M2-14		
IMPLIED TOLERANCES	DESCRIPTION:		
FRACTION ± 1/8	DRAWING, INSTALLATION		
.X ± .06	ADDITIONAL GUARD #700257		
.XX ± .03	SIZE	SCALE	DRAWING CODE NUMBER
.XXX ± .010	B	NTS	480120
250 ✓ MACHINE FINISH UNLESS OTHERWISE STATED	ASSEMBLY: -	SHEET 1/1	
PLANE ANGLES +/- 1°			

	△	NEW ISSUE	CP	JW, 29-AUG-06	C06008	
MF	REV	CHANGE	DRAWN BY:	CHECKED BY:	DATE:	E.C.D. #
			DATE:	APPROVED BY:	DATE:	

**FIGURE 5-1. TRANSMISSION  
S/N 800201 and Above**



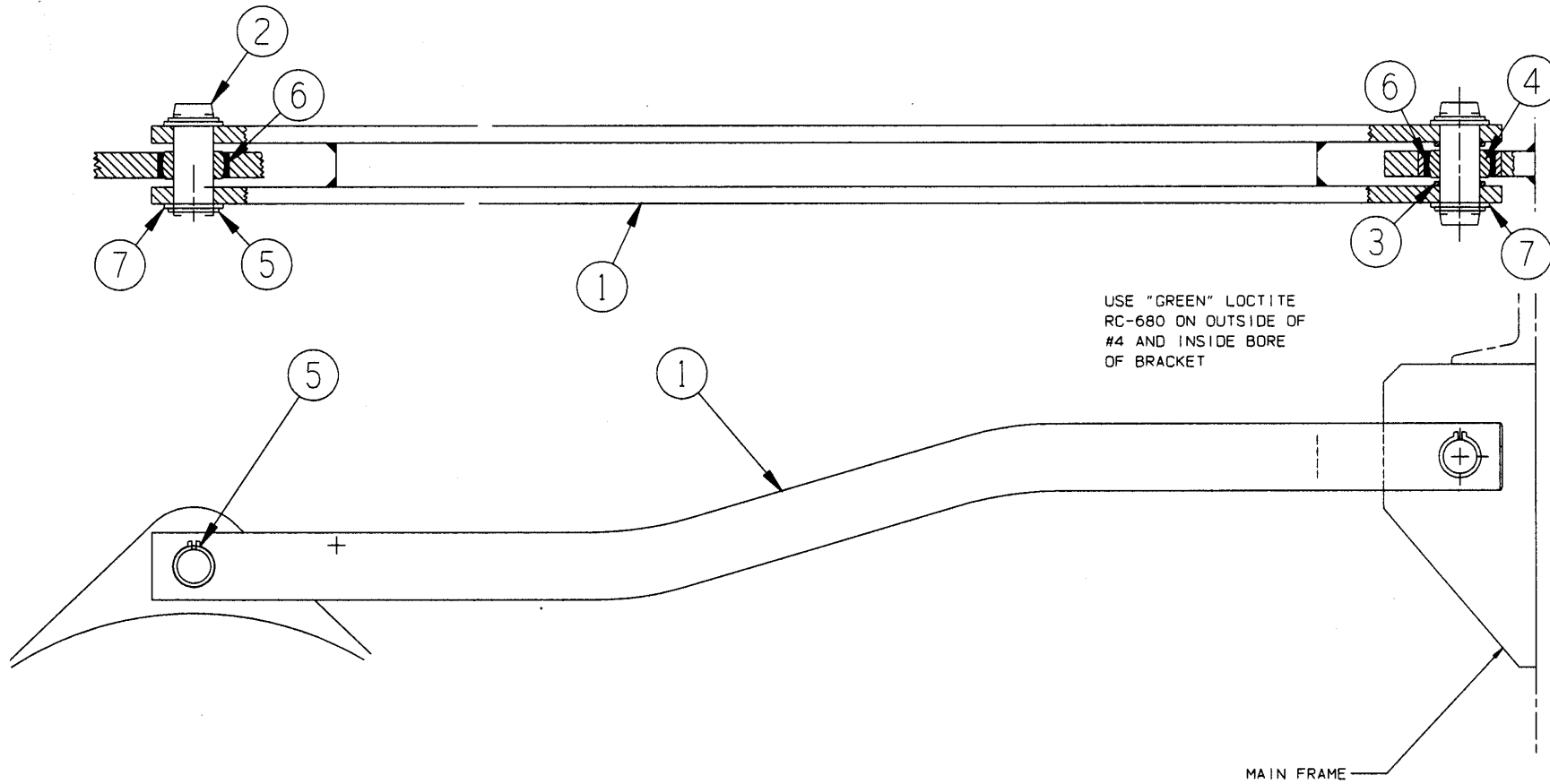
## FIGURE 5-1-1. TRACK DRIVE MOTOR S/N 800201 and Above



ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1	500202	Track Drive Motor.....	1
2	N-072	Flange .....	2
3	0510-6-4	Adapter.....	3
4	10288604	Male Disconnect.....	3
5	0503-16	Adapter.....	1
6	2503-6-6	Elbow .....	2
Mounting Hardware:			
	1484-51	M18 x 55mm Bolt .....	4
	2768	3/4" Lockwasher .....	4



**FIGURE 5-3. TORQUE ARM**  
**S/N 800201 and Above**



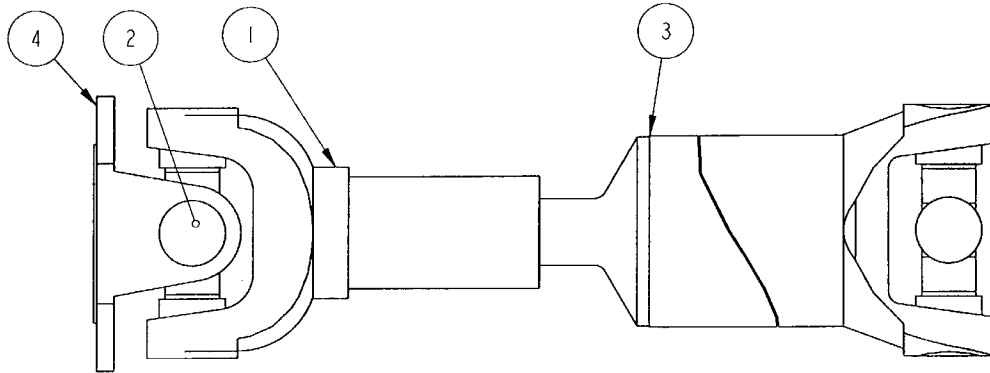




# FIGURE 5-3. TORQUE ARM S/N 800201 and Above

ITEM NO.	PART NO.	DESCRIPTION	UNITS PER ASSEMBLY
1	802063	Curved Torque Arm.....	1
2	B-4726-1	Pin.....	2
3	A-10973	Spacer.....	2
4	4120	Bearing.....	1
5	7641	Retaining Ring.....	4
6	A-27236	Bushing.....	1
7	4731-5	Washer.....	4

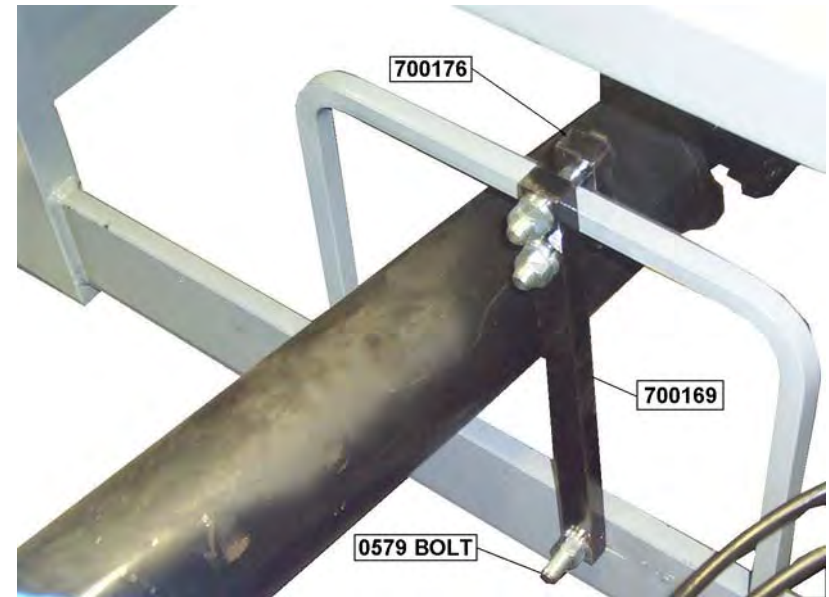
**FIGURE 5-4. DRIVE SHAFT  
S/N 800201 and Above**



Transmission Side

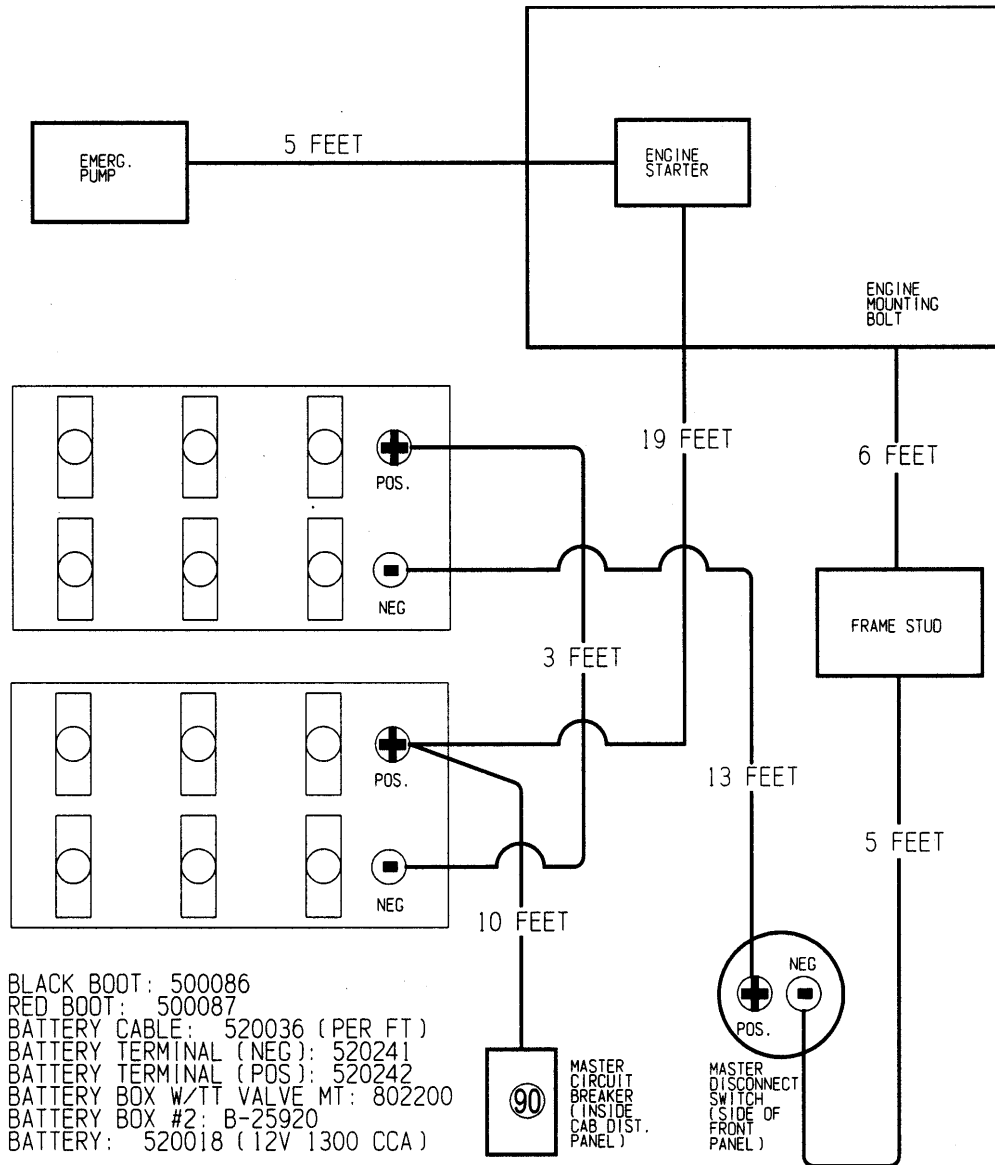
Axle Side

ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1	9534	SLIP YOKE ASSEMBLY .....	1
2	9537	JOURNAL AND BEARING ASSEMBLY .....	2
3	9550-01	DRIVE SHAFT ASSEMBLY .....	1
4	9519-1	BEARING KIT STRAP .....	1



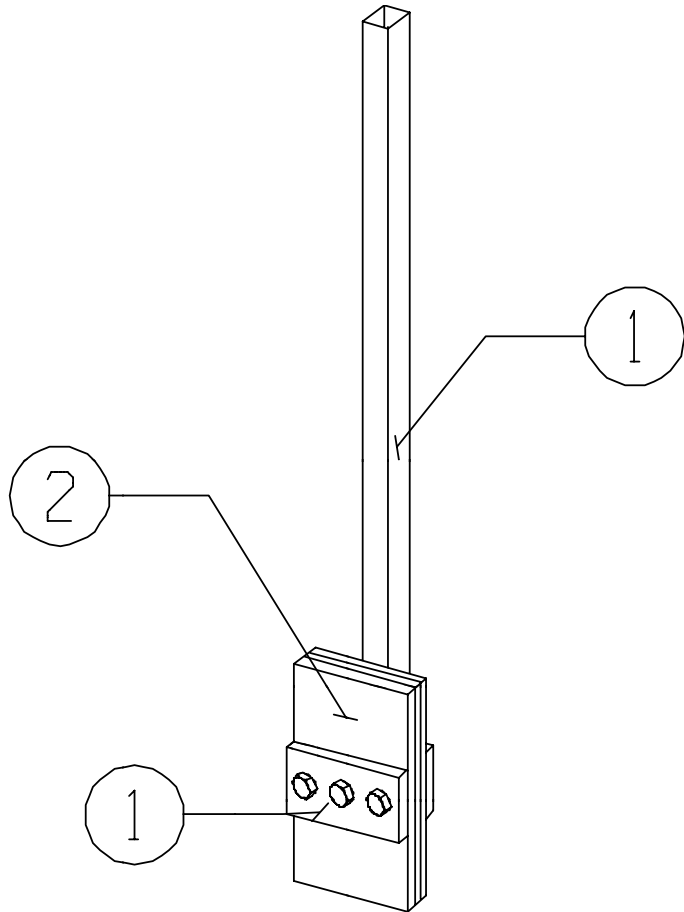
OPTIONAL DRIVE SHAFT PROTECTION KIT 460121

**FIGURE 6-1. BATTERIES**  
S/N 800201 and Above



- BLACK BOOT: 500086
- RED BOOT: 500087
- BATTERY CABLE: 520036 (PER FT)
- BATTERY TERMINAL (NEG): 520241
- BATTERY TERMINAL (POS): 520242
- BATTERY BOX W/TT VALVE MT: 802200
- BATTERY BOX #2: B-25920
- BATTERY: 520018 (12V 1300 CCA)

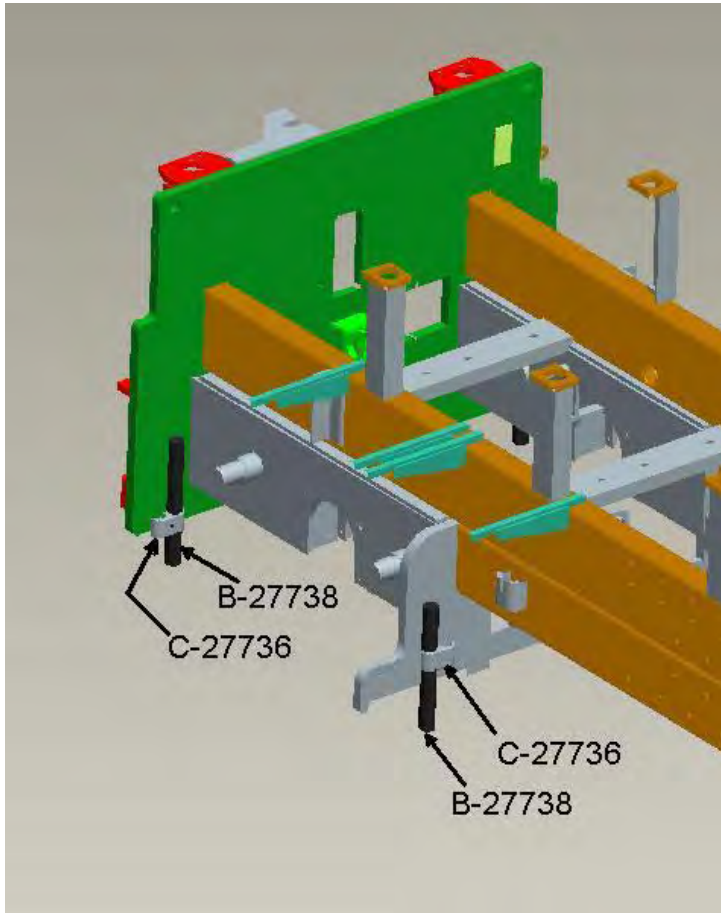
**FIGURE 6-3. RAIL SWEEP  
S/N 800201-800235, 800237**



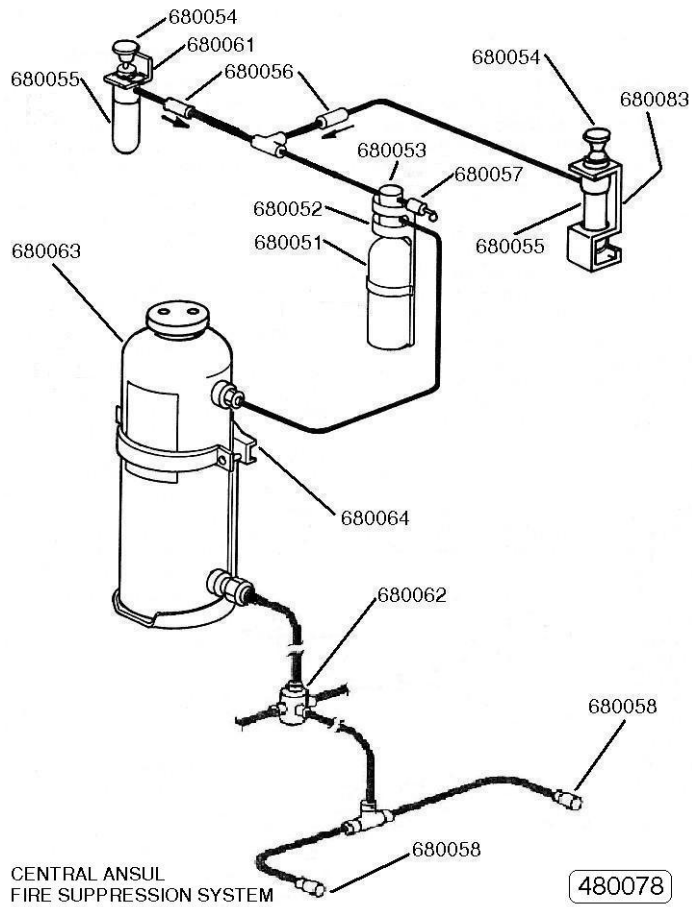
ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1A	840085	Rail Sweep Assembly (Std.).....	1
2	A-40746	.. Rubber Rail Sweep (Std.).....	8
1B	840087	Rail Sweep Assembly (Opt.).....	1
2	620104	.. Rubber Rail Sweep .....	8
Mounting Hardware:			
3	555	Hex Bolt ½ x 1-1/4.....	8
4	2510	¼" Hex Nut.....	8

Ⓛ Optional Rail Sweep Assembly can be identified by the 3-ply color of the sweep itself, Black/Grey/Black.

**FIGURE 6-3A. RAIL SWEEP  
Element Style  
S/N 800236, 800238 & Above**

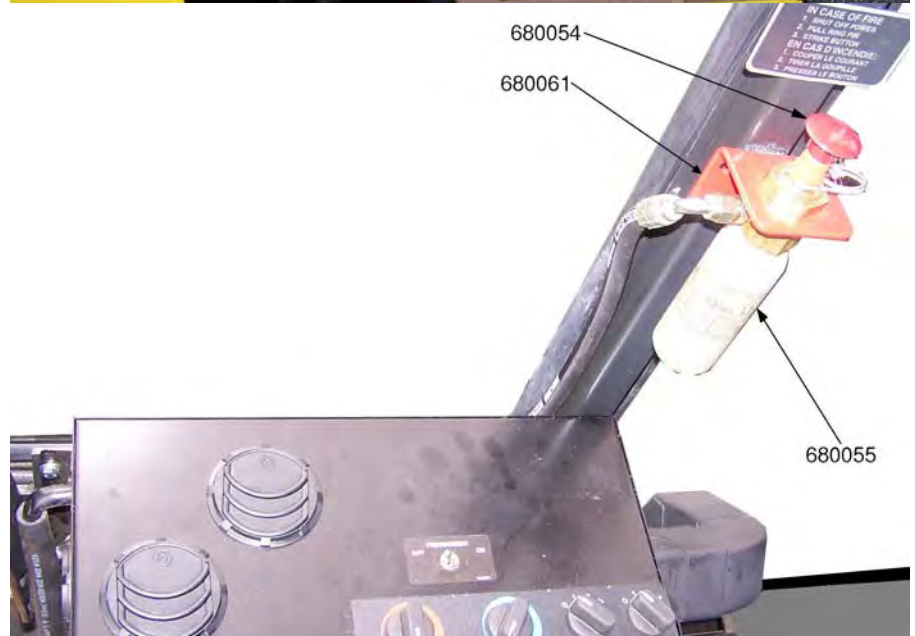


**FIGURE 6-4. FIRE PROTECTION  
Ansul (Option)  
S/N 800201 and Above**

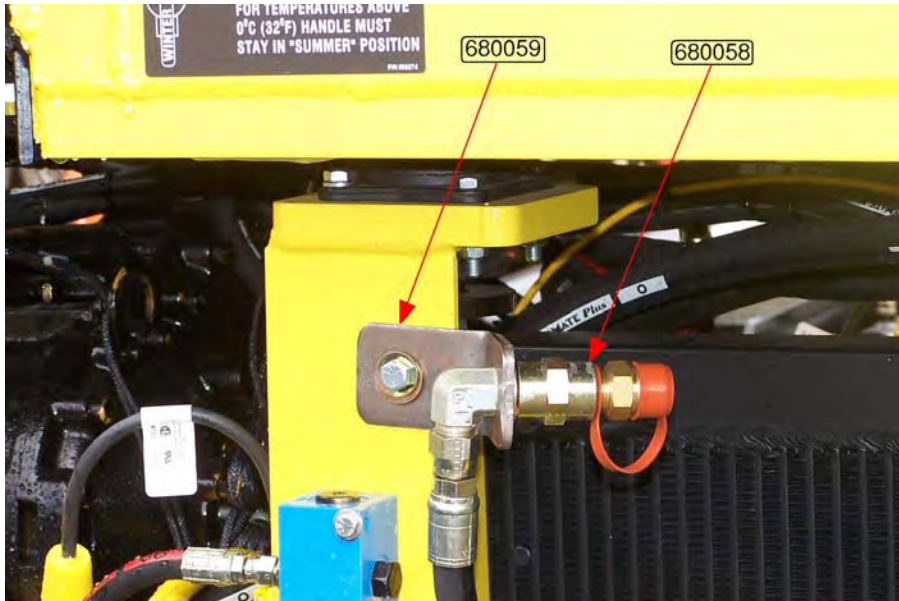




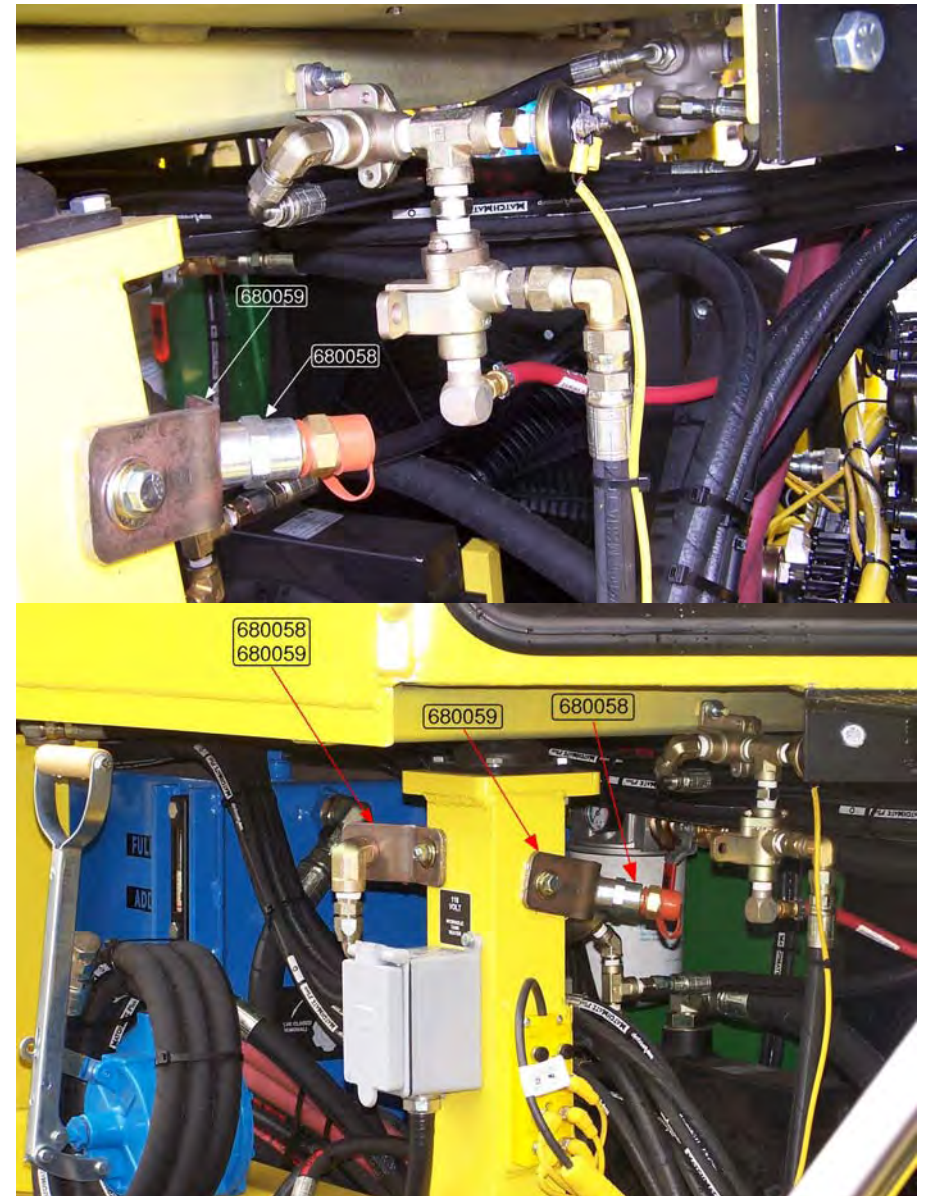
**FIGURE 6-4. FIRE PROTECTION  
Ansul (Option)  
S/N 800201 and Above**



## Remote Locations



**FIGURE 6-4. FIRE PROTECTION  
Ansul (Option)  
S/N 800201 and Above**



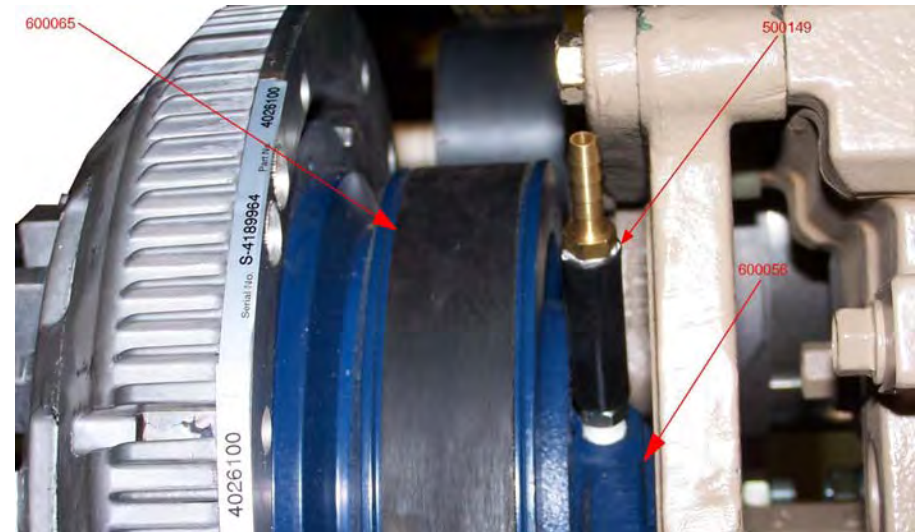
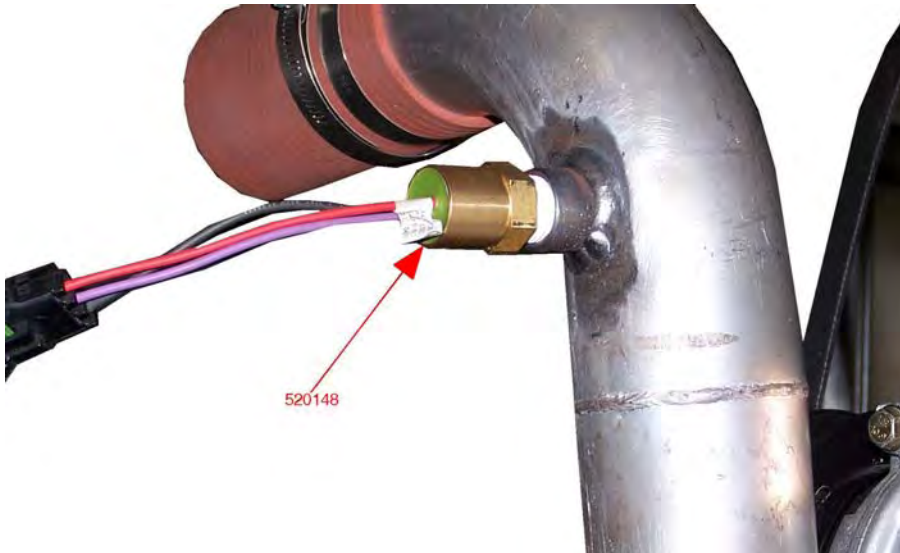


**Engine Mounts:**



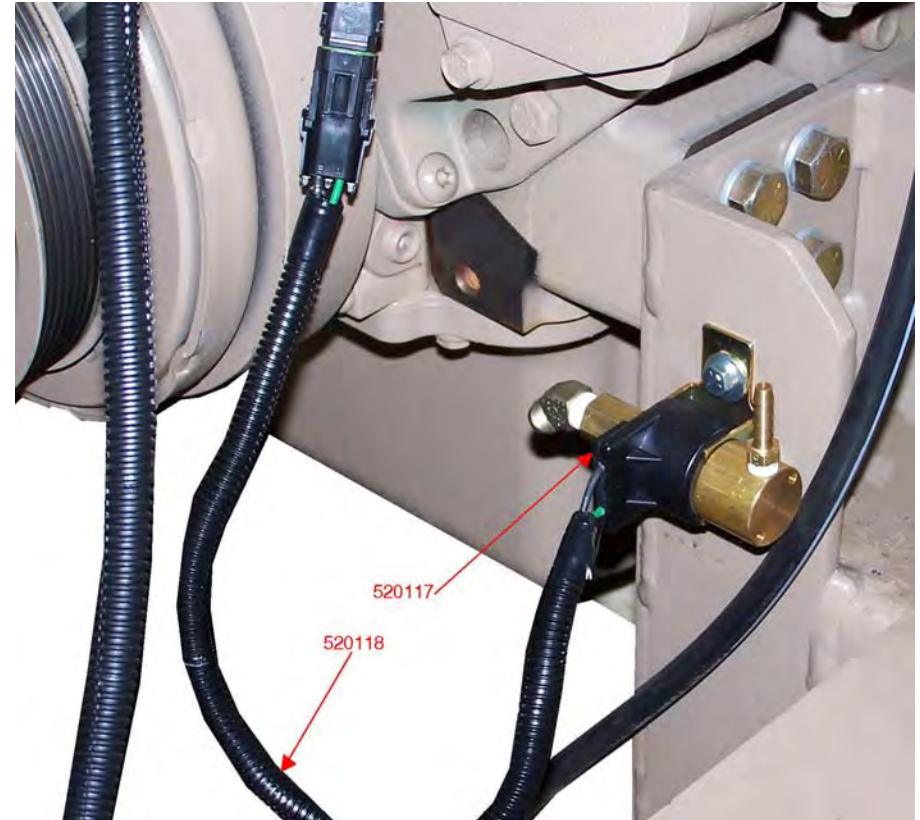
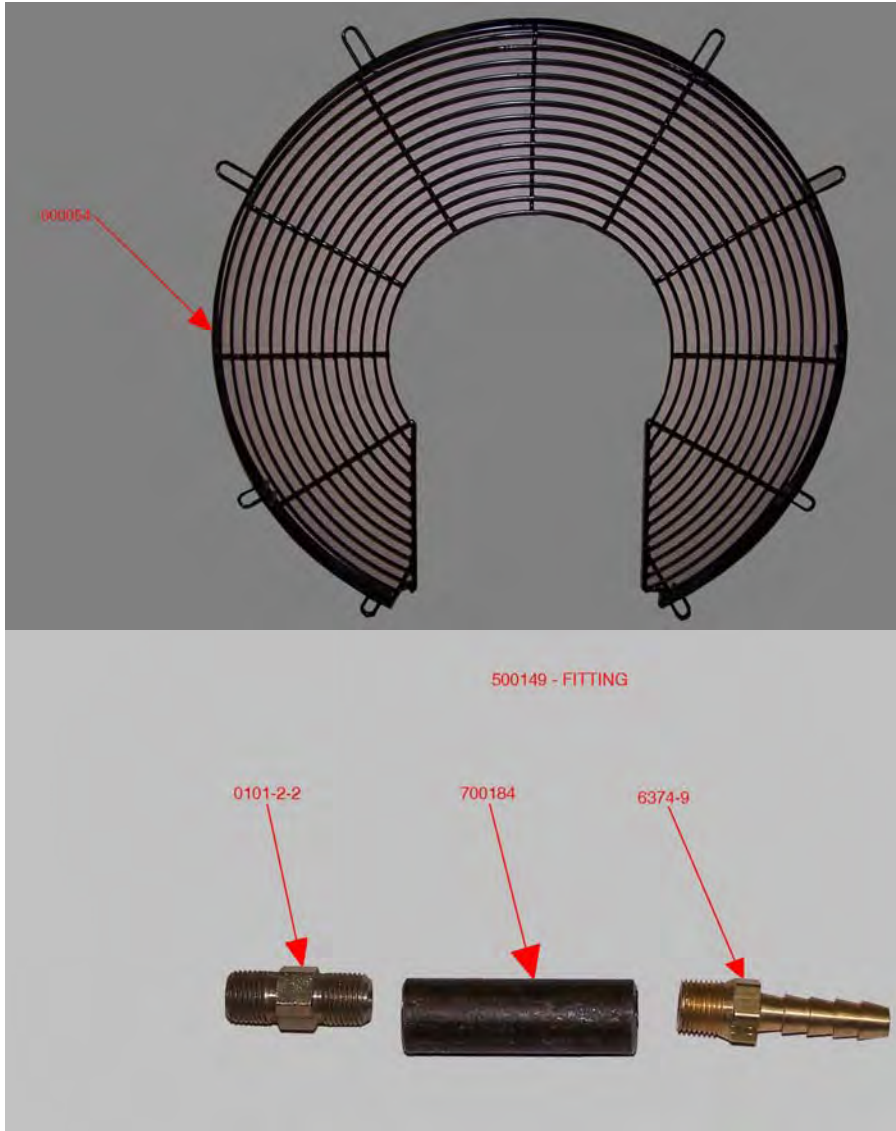
**FIGURE 6-4. FIRE PROTECTION  
Ansul (Option)  
S/N 800201 and Above**

**FIGURE 7E-1-3. JOHN DEERE ENGINE  
Horton Fan (Option)  
S/N 800201 to 800220**



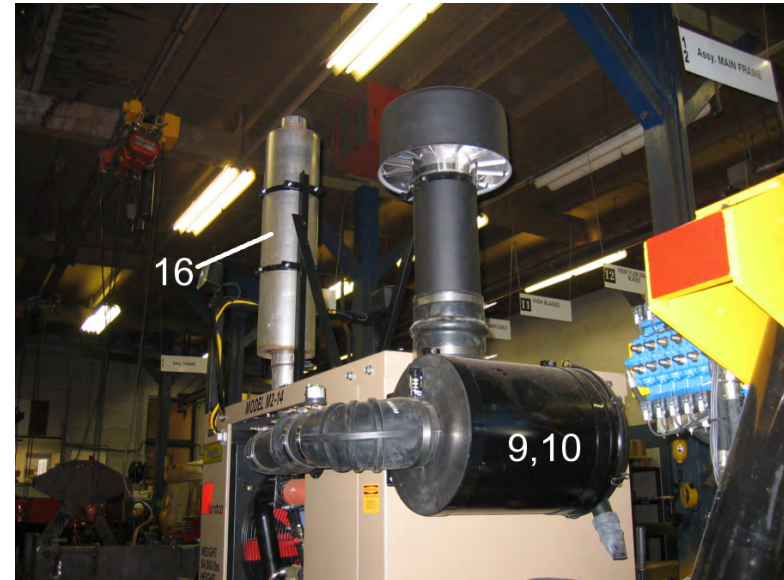
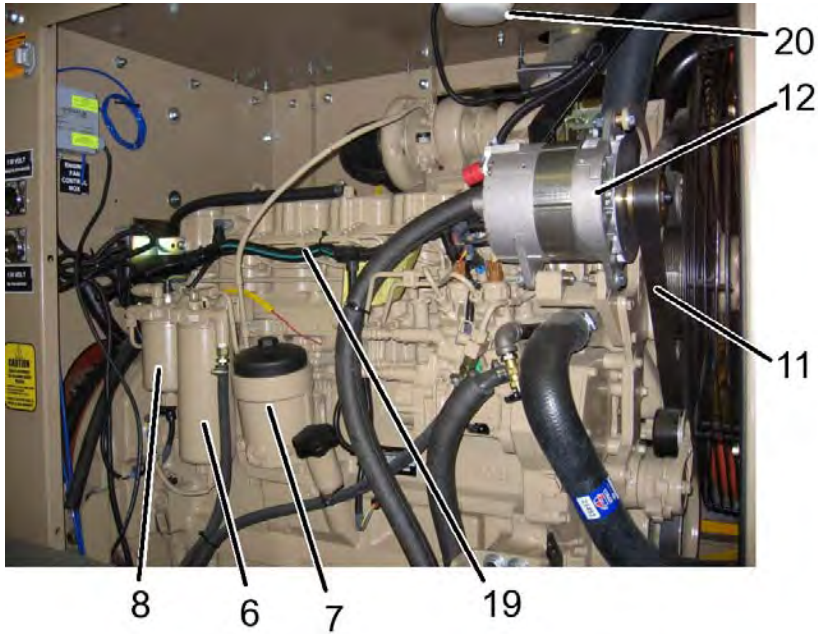


**FIGURE 7E-1-3. JOHN DEERE ENGINE  
Horton Fan (Option)  
S/N 800201 to 800220**





**FIGURE 7E-1-1. JOHN DEERE ENGINES  
John Deere 6081HF – Tier 2  
With Clutch Disconnect  
S/N 800201 and Above**

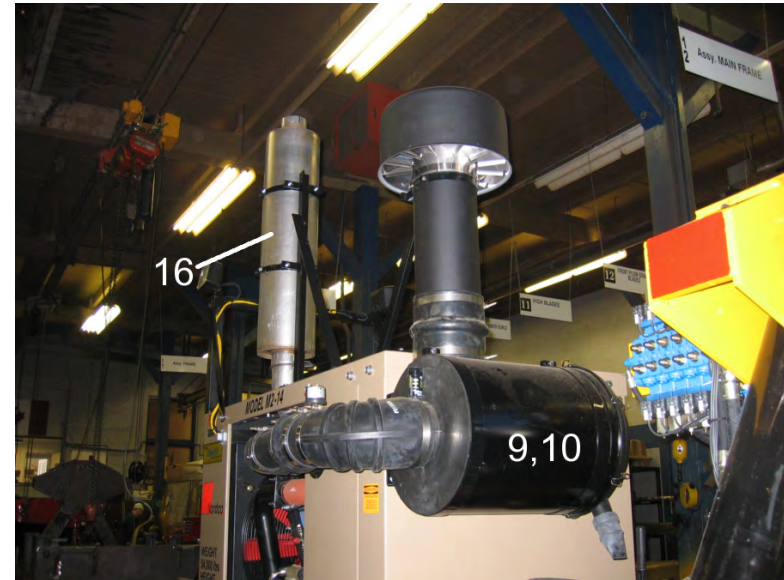
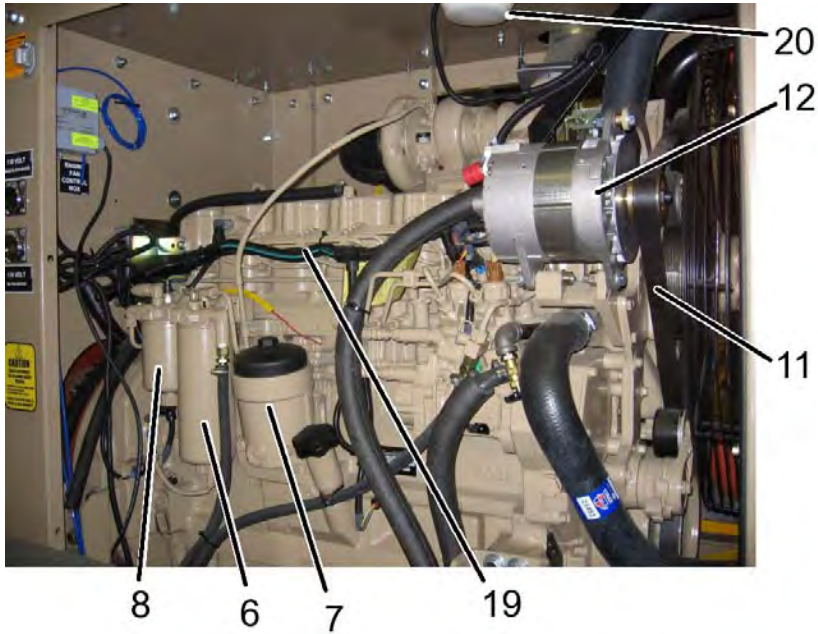




**FIGURE 7E-1-1. JOHN DEERE ENGINES**  
**John Deere 6081HF – Tier 2**  
**With Clutch Disconnect**  
**S/N 800201 and Above**

ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1	600210	Engine, John Deere 6081HF .....	1
2	600117	. Switch, Temperature .....	1
3	600118	. Switch, Pressure (12psi) .....	1
4	600195	. Drive, Triple Pump .....	1
5	500011	. Pump, Gear .....	1
6	3890 167	. Filter, Primary Fuel (Canister) .....	1
7	3890 210	. Filter, Oil .....	1
--	3571 0750	. . Seal, Reusable O-Ring .....	1
8	3890 165	. Separator, Fuel/Water .....	1
9	3890 142	. Filter, Outer Air .....	1
10	3890 144	. Filter, Inner Air .....	1
11	1756 0010	. Belt, Serpentine .....	1
12	3758 0025	. Alternator .....	1
13	7087 100	. Indicator, Air Restriction .....	1
14	6123 1242	. Relay, Intake Heater Small .....	1
15	6123 1248	. Relay, Intake Heater 24V Continuous....	1
16	5048 0870	. Muffler .....	1
17	3775 0012	. Governor, Air Compressor .....	1
18	61200101	Potentiometer, Throttle Control .....	1
19	802228	Harness, JD Engine .....	1
20		Dome Light (Optional) .....	1

**FIGURE 7E-1-2. JOHN DEERE ENGINES**  
**John Deere 6081HF – Tier 2**  
**Without Clutch Disconnect**  
**S/N 800201 and Above**





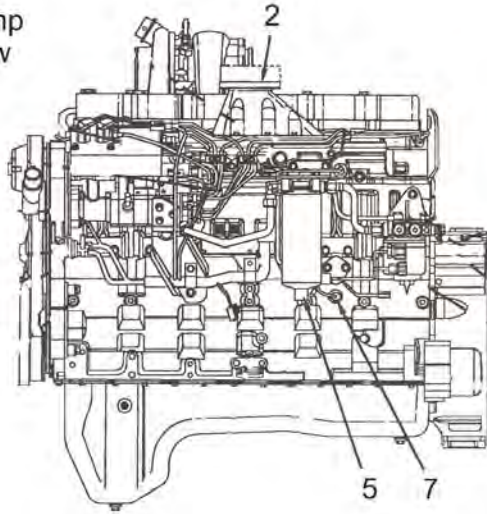
**FIGURE 7E-1-2. JOHN DEERE ENGINES**  
**John Deere 6081HF – Tier 2**  
**Without Clutch Disconnect**  
**S/N 800201 and Above**

ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1	600211	Engine, John Deere 6081HF .....	1
2	600117	. Switch, Temperature .....	1
3	600118	. Switch, Pressure (12psi) .....	1
4	600185	. Drive, Triple Pump (w/o Clutch Disc.)....	1
5	500011	. Pump, Gear.....	1
6	3890 167	. Filter, Primary Fuel (Canister).....	1
7	3890 210	. Filter, Oil.....	1
--	3571 0750	. . Seal, Reusable O-Ring .....	1
8	3890 165	. Separator, Fuel/Water.....	1
9	3890 142	. Filter, Outer Air.....	1
10	3890 144	. Filter, Inner Air .....	1
11	1756 0010	. Belt, Serpentine .....	1
12	3758 0025	. Alternator .....	1
13	7087 100	. Indicator, Air Restriction.....	1
14	6123 1242	. Relay, Intake Heater Small .....	1
15	6123 1248	. Relay, Intake Heater 24V Continuous....	1
16	5048 0870	. Muffler.....	1
17	3775 0012	. Governor, Air Compressor .....	1
18	61200101	Potentiometer, Throttle Control.....	1
19	802228	Harness, JD Engine .....	1
20		Dome Light (Optional).....	1

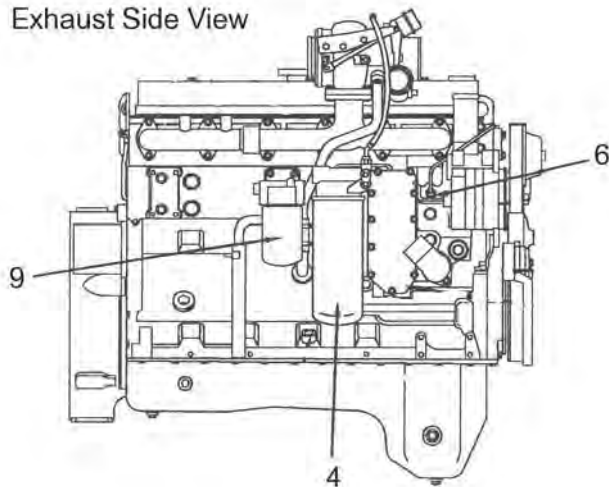


## FIGURE 7E-2-1. CUMMINS ENGINES Cummins QSC8.3 With Clutch Disconnect S/N 800201 and Above

Fuel Pump  
Side View



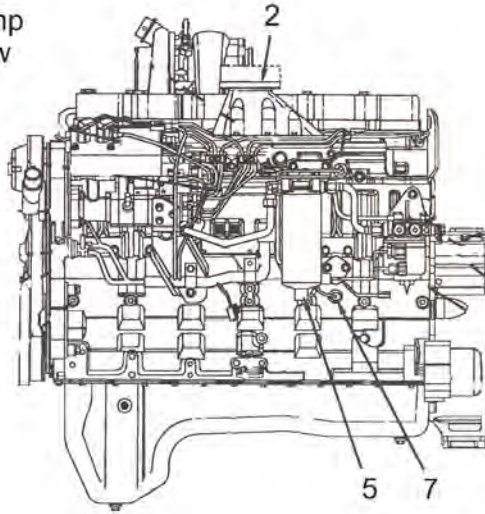
Exhaust Side View



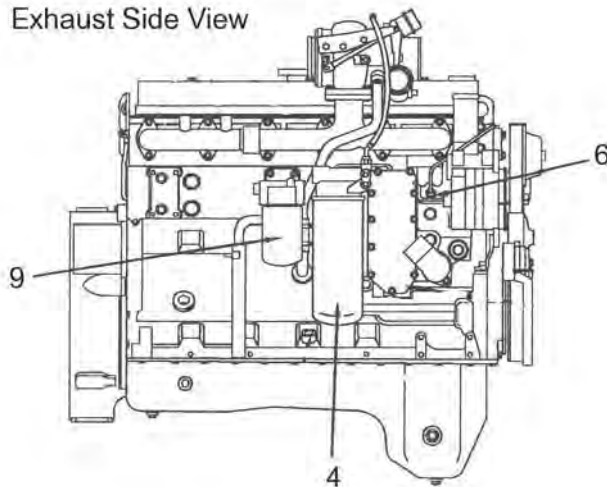
ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1	600201	Engine, Cummins QSC 8.3.....	1
2	600103	. Cap, Air Intake .....	1
3	802291	. Filter, Fuel .....	1
4	802292	. Filter, Oil.....	1
5	802293	. Separator, Fuel/Water.....	1
6	600110	. Switch, Temperature.....	1
7	600111	. Switch, Pressure (15psi).....	1
8	600190	. Drive, Triple Pump (w/Clutch Disc.) .....	1

## FIGURE 7E-2-2. CUMMINS ENGINES Cummins QSC8.3 Without Clutch Disconnect S/N 800201 and Above

Fuel Pump  
Side View



Exhaust Side View

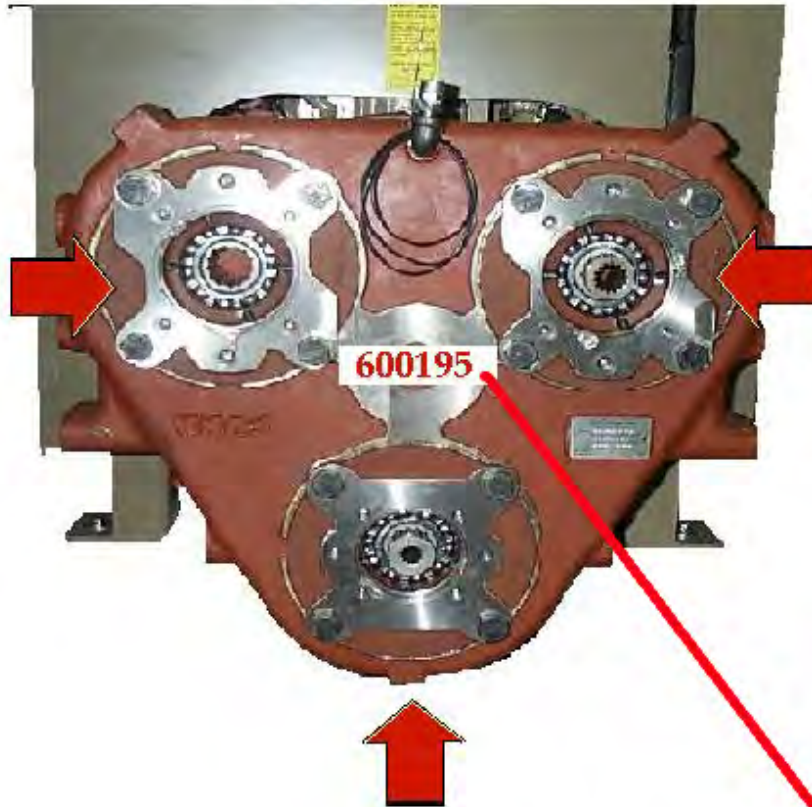


ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1	600200	Engine, Cummins QSC 8.3.....	1
2	600103	. Cap, Air Intake .....	1
3	802291	. Filter, Fuel .....	1
4	802292	. Filter, Oil.....	1
5	802293	. Separator, Fuel/Water.....	1
6	600110	. Switch, Temperature.....	1
7	600111	. Switch, Pressure (15psi).....	1
8	600180	. Drive, Triple Pump (w/o Clutch Disc.)....	1





Track Drive  
Pump  
See Sht. 2



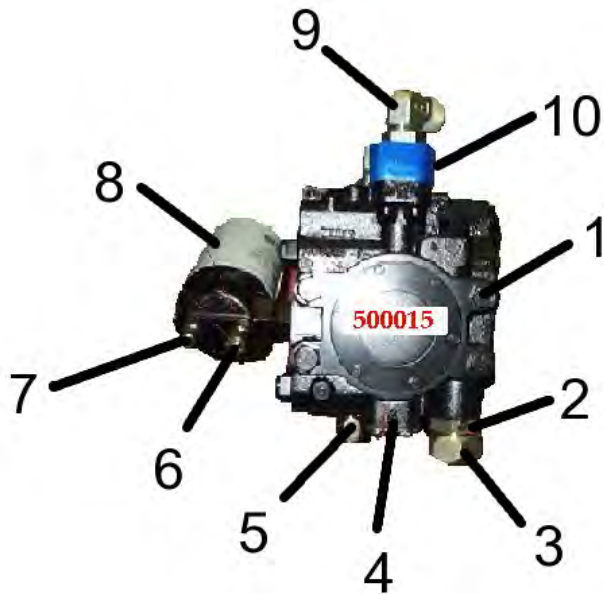
Main Control Pump  
See Sht. 4



Broom & Blower  
Pump  
See Sht. 3

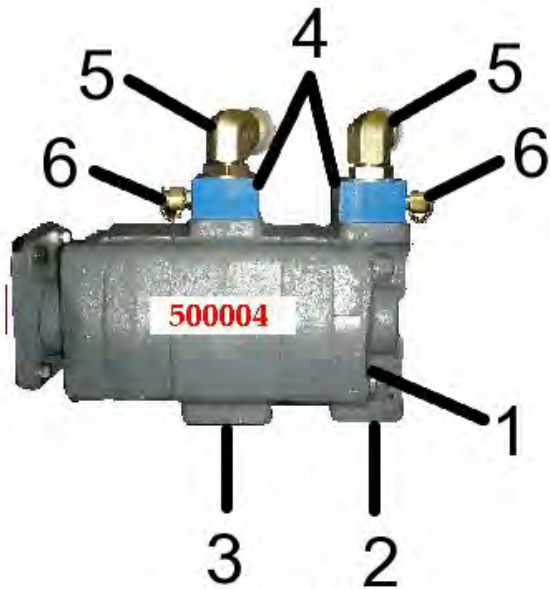
Note: 600195 is for John Deere  
600190 is for Cummins

**TRACK DRIVE PUMP**



ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1	500015	Pump, Track Drive.....	1
2	3505	Plug, Dryseal.....	1
3	0503-20-20	Adapter.....	1
4	N-072	Flange .....	1
5	0503-12-12	Adapter.....	1
6	0503-6-6	Adapter.....	1
--	10288604	Disconnect.....	1
7	0503-6-4	Adapter.....	1
8		Filter .....	1
9	2503-16-16	Elbow Adapter 90°.....	1
10	N-032	Flange .....	1
Mounting Hardware			
	555	Hex Bolt ½ x 1-1/4.....	4
	2755-1	½" Washer.....	4

**BROOM & BLOWER PUMP**

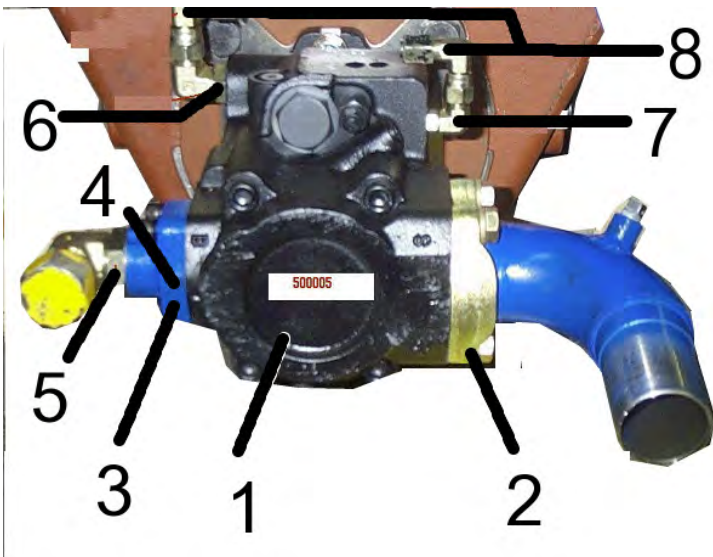


ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1	500004	Pump, Double Gear.....	1
2	N-060	Flange .....	1
3	N-061	Flange .....	1
4	N-032	Flange .....	2
5	2503-20-20	Elbow .....	2
6	10288604	Disconnect.....	2

Mounting Hardware

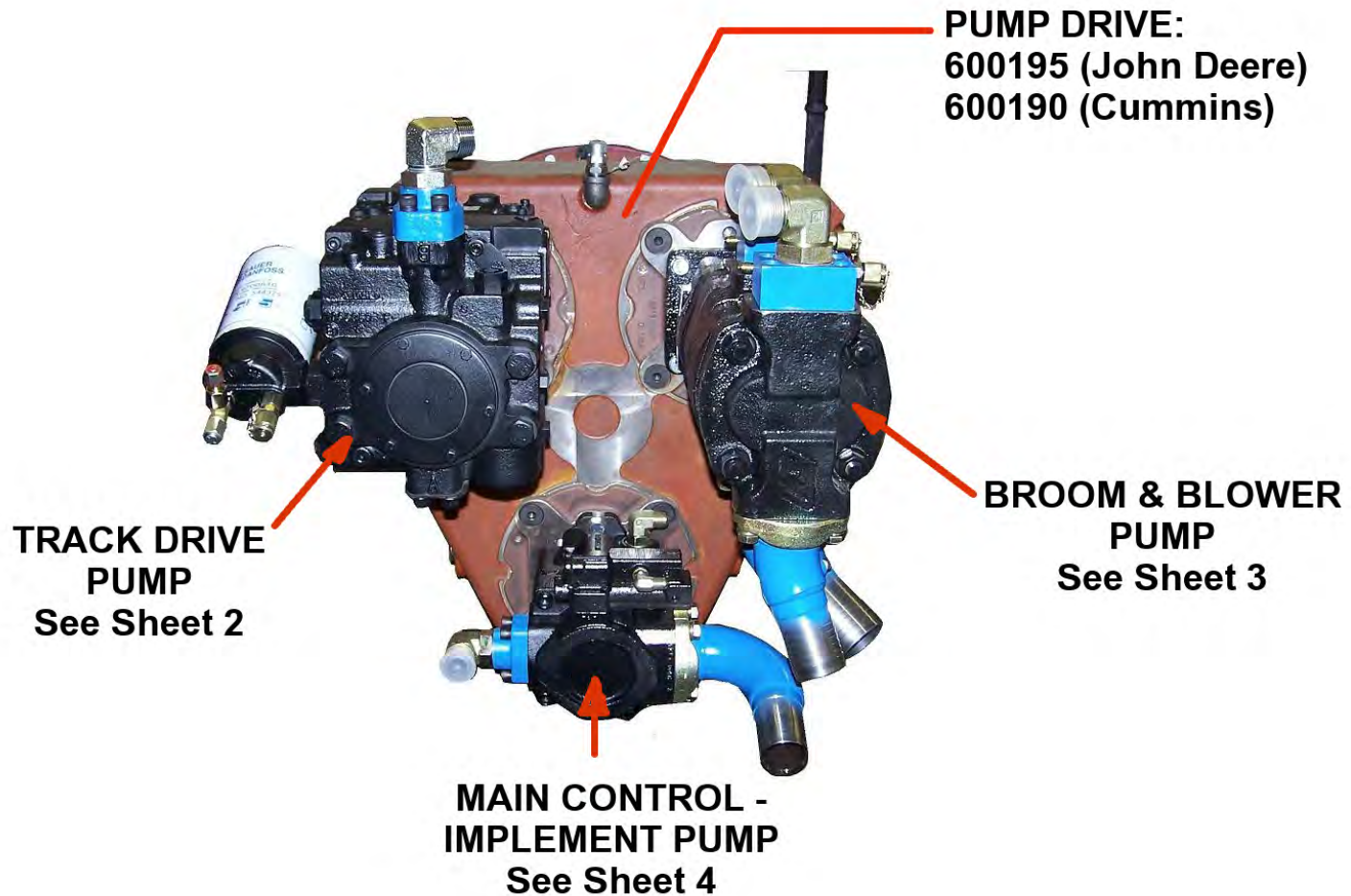
0559	Hex Bolt ½ x 1-1/2.....	4
2755-1	½" Washer.....	4

**MAIN CONTROL PUMP**



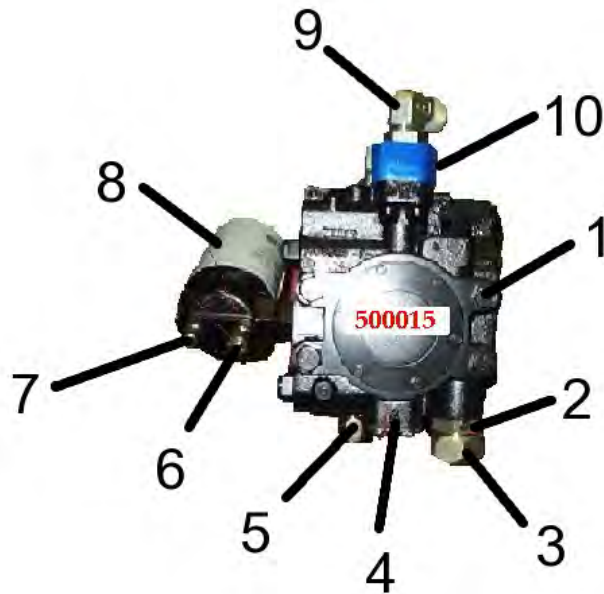
ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1	500005	Pump, Main Control.....	1
2	N-060	Flange .....	1
3	A-33193	Flange .....	1
4	3505	Dryseal Plug.....	1
5	2503-16-16	Elbow .....	1
6	2503-10-8	Elbow .....	1
7	2506-6-6	Adapter.....	1
8	3903-6-6	Swivel Elbow.....	2

# FIGURE 7P-1A. PUMPS S/N 800237 & Above





**TRACK DRIVE PUMP**

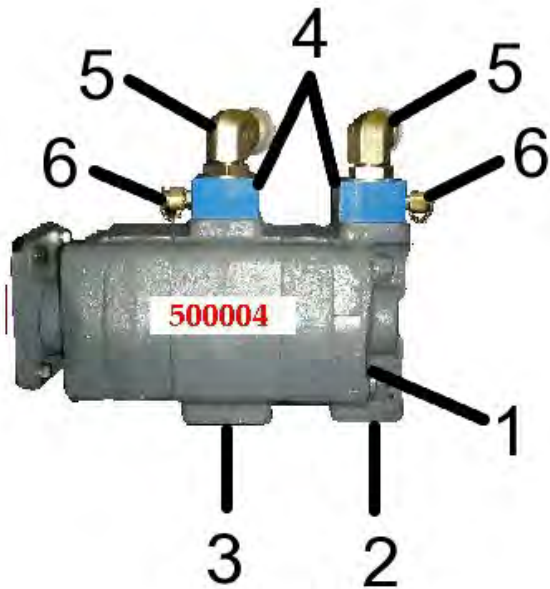


ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1	500015	Pump, Track Drive.....	1
2	3505	Plug, Dryseal.....	1
3	0503-20-20	Adapter.....	1
4	N-072	Flange .....	1
5	0503-12-12	Adapter.....	1
6	0503-6-6	Adapter.....	1
--	10288604	Disconnect.....	1
7	0503-6-4	Adapter.....	1
8		Filter .....	1
9	2503-16-16	Elbow Adapter 90°.....	1
10	N-032	Flange .....	1
Mounting Hardware			
	555	Hex Bolt ½ x 1-1/4.....	4
	2755-1	½" Washer.....	4



**FIGURE 7P-1A. PUMPS  
S/N 800237 & Above**

**BROOM & BLOWER PUMP**



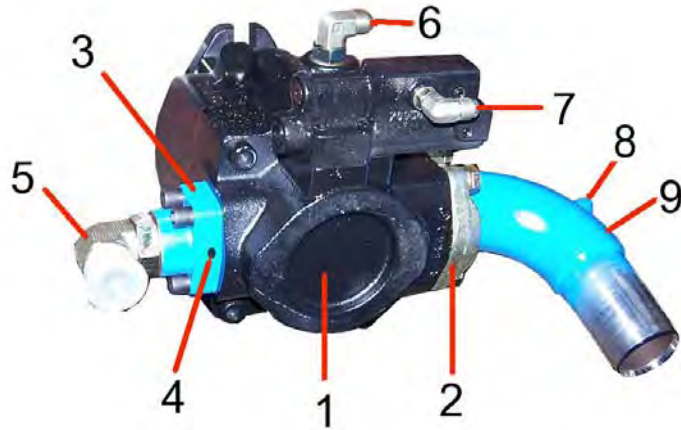
ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1	500004	Pump, Double Gear.....	1
2	N-060	Flange .....	1
3	N-061	Flange .....	1
4	N-032	Flange .....	2
5	2503-20-20	Elbow .....	2
6	10288604	Disconnect.....	2

Mounting Hardware

0559	Hex Bolt ½ x 1-1/2.....	4
2755-1	½" Washer.....	4

**FIGURE 7P-1A. PUMPS  
S/N 800237 & Above**

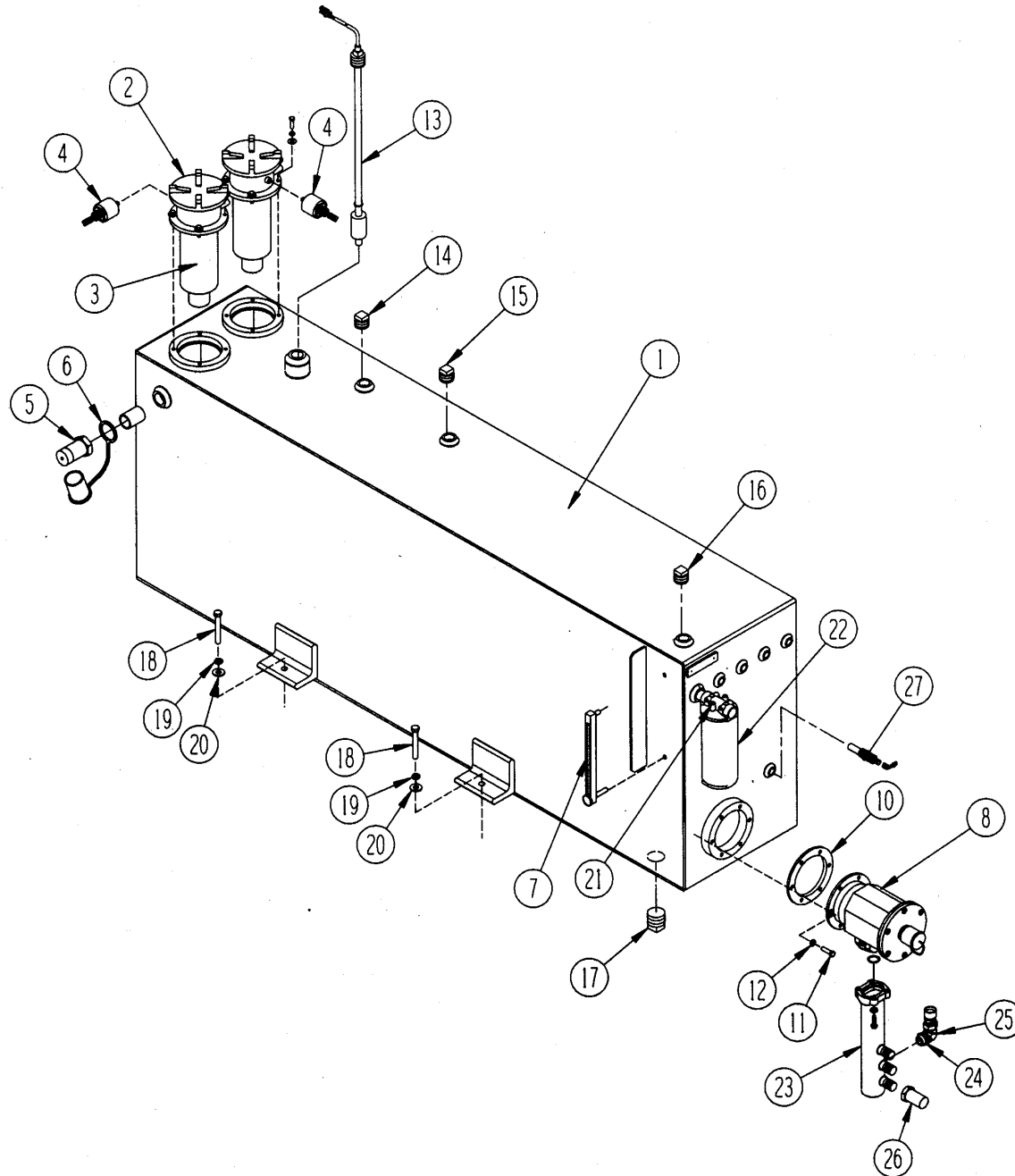
**MAIN CONTROL –  
IMPLEMENT PUMP**



ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1	500134	Pump, Main Control.....	1
2	N-060	Flange .....	1
3	N-032	Flange .....	1
4	3505	Dryseal Plug .....	1
5	2503-16-16	Elbow .....	1
6	2503-10-8	Elbow .....	1
7	2503-4-6	Elbow .....	1
8	3637	Square Hd. Plug.....	1
9	6373-41		

# FIGURE 8-1. HYDRAULIC TANK

S/N 800201 and Above



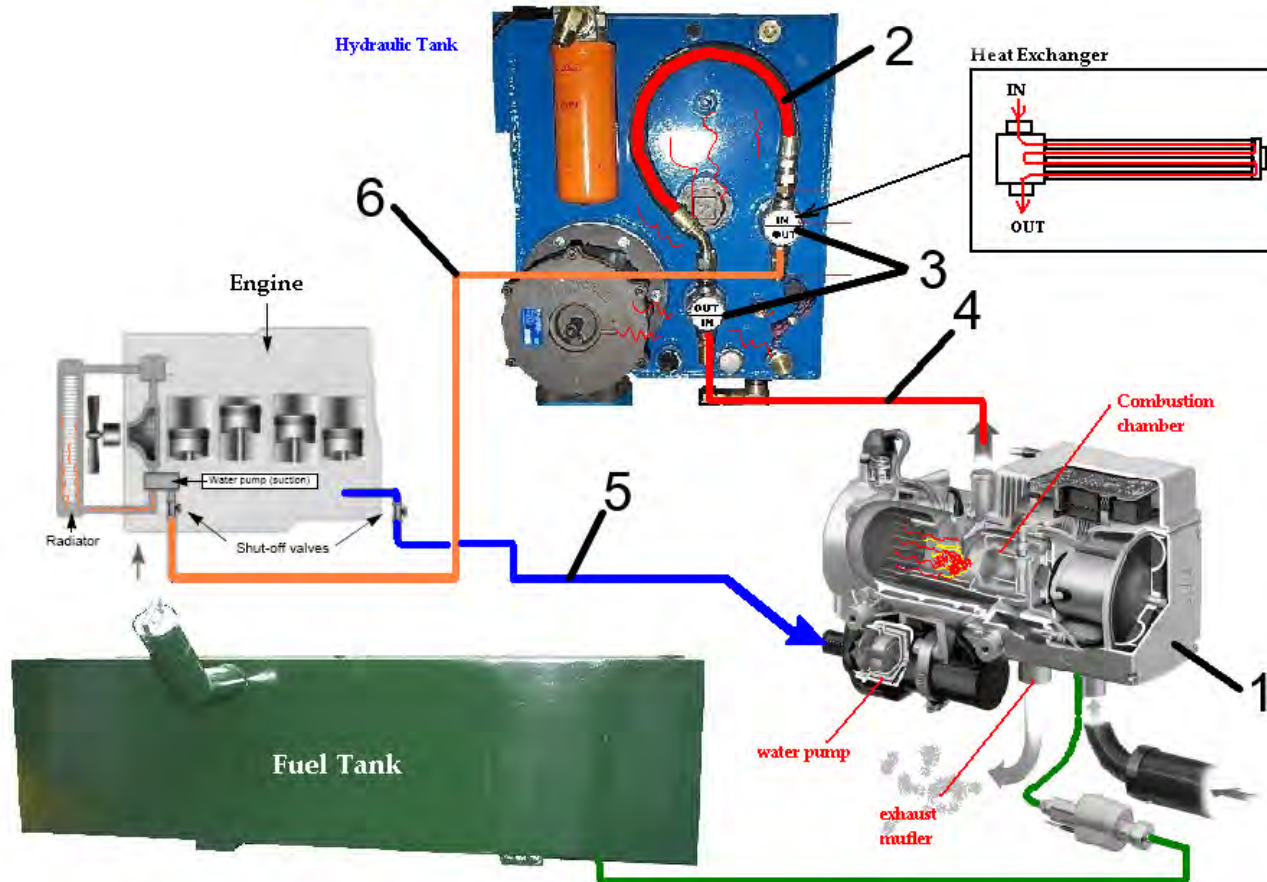
## FIGURE 8-1. HYDRAULIC TANK S/N 800201 and Above

ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1	802172	Hydraulic Tank.....	1
2	3880323	Filter Assembly .....	1
3	3894289	. Element.....	1
4	5193975	. Sending Unit .....	1
--	3880323G	. Gasket.....	1
5	3799-235	Quick Disconnect.....	1
6	3799-236	Dust Cap .....	1
7	G-009	Temperature Level & Gauge.....	1
8	500619	Suction Strainer .....	1
9*	500092	. Element.....	1
10		. Gasket.....	1
11	0443	7/16 x 1-1/4 Capscrew .....	6
12	2763	7/16" Lockwasher.....	6
13	5194901	Hyd. Oil Level Switch (Optional) .....	1
14	3510	½" NPT Dryseal Plug .....	1
15	2103-8-8	Adapter .....	1
16	3636	¾" NPT Square Hd. Plug .....	1
17	05CP-12	Plug.....	1
18	0773	5/8" x 1-1/2" Bolt .....	4
19	2776	5/8" Lockwasher.....	4
20	2755-2	5/8" Alloy Washer.....	4
--	3880350	Case Drain Filter Assembly .....	1
21	3880352	. Filter Head (Optional).....	1
22	3890145	. Filter (Optional) .....	1
--	520024	. Sending Unit .....	1
23	802175	Manifold .....	1
24	0510-24-20	Adapter .....	1
25	3503-20-20	Adapter .....	1
26Ⓢ	700025	Cap .....	1
27*	78942660	Temperature Switch.....	1

ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
Decals for Hydraulic Components:			
30	A-40835	Full and Add Decal.....	1
31	800188	Hyd. Oil Filter Port Decal .....	1
32	800176	Arrow Decal .....	1

Ⓢ Cap to be welded to manifold if snow blower is not used.

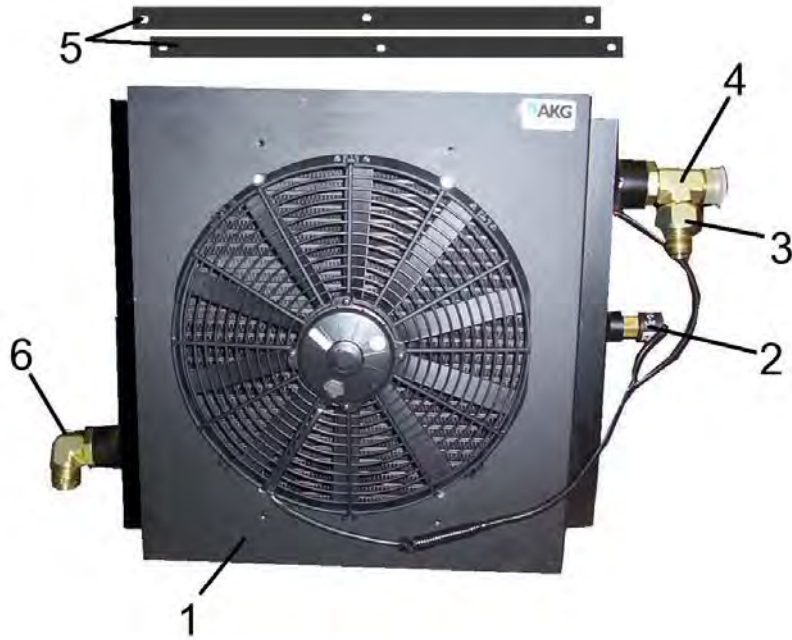
**FIGURE 8-1-1. HYDRAULIC TANK  
ESPAR HEATER  
S/N 800201 and Above**



ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1	8986	Espar Heater .....	1
2	K-010	Hose .....	1
3	8854	Heat Exchanger (Thermal Liner) .....	2
4	GH663-12	Hose .....	1



**FIGURE 9-1. HYDRAULIC OIL COOLER  
S/N 800201 and Above**

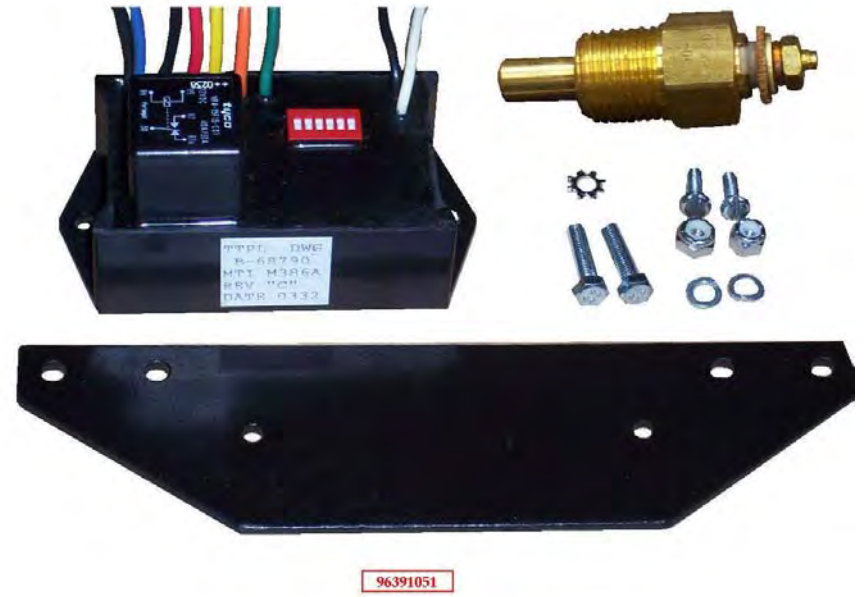
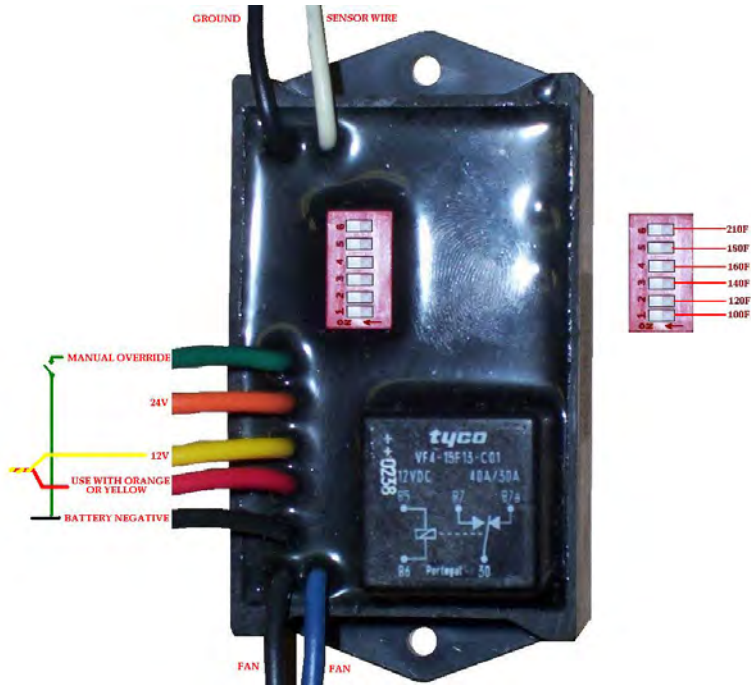


ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1	500385	Hydraulic Oil Cooler .....	1
--	500383	. . Cooler Core .....	1
--	500384	. . Cooler Fan.....	1
2	520103	Temperature Switch .....	1
3	0603-20-16	Reducing Adapter.....	1
4	053T-20-20	Tee Adapter.....	1
5	802337	Cooler Mount Flat.....	2
6	2503-20-20	90° Elbow .....	1
7*	802335	Removable Cooler Mount.....	1

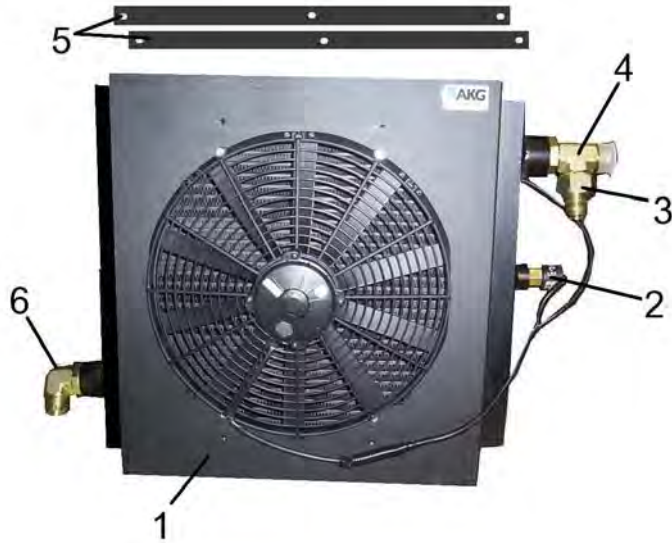
Mounting hardware:

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 9-1. HYDRAULIC OIL COOLER**  
S/N 800201 and Above



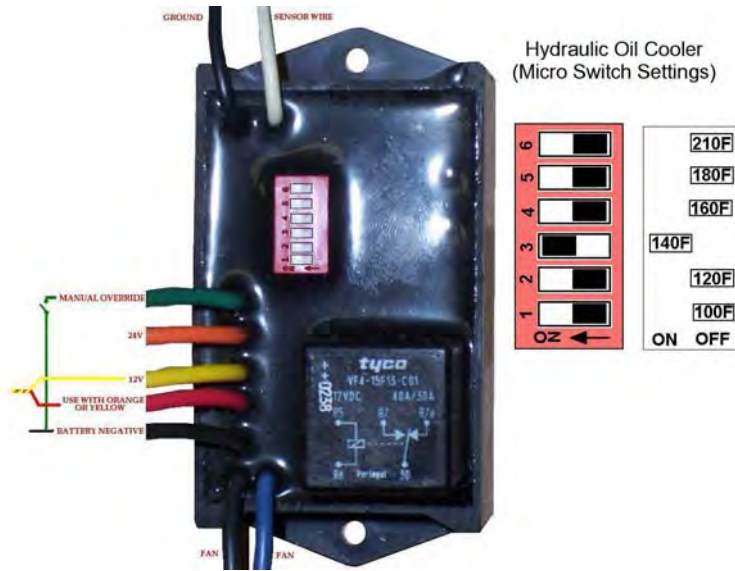
## FIGURE 9-1A. HYDRAULIC OIL COOLER S/N 800229 and Above



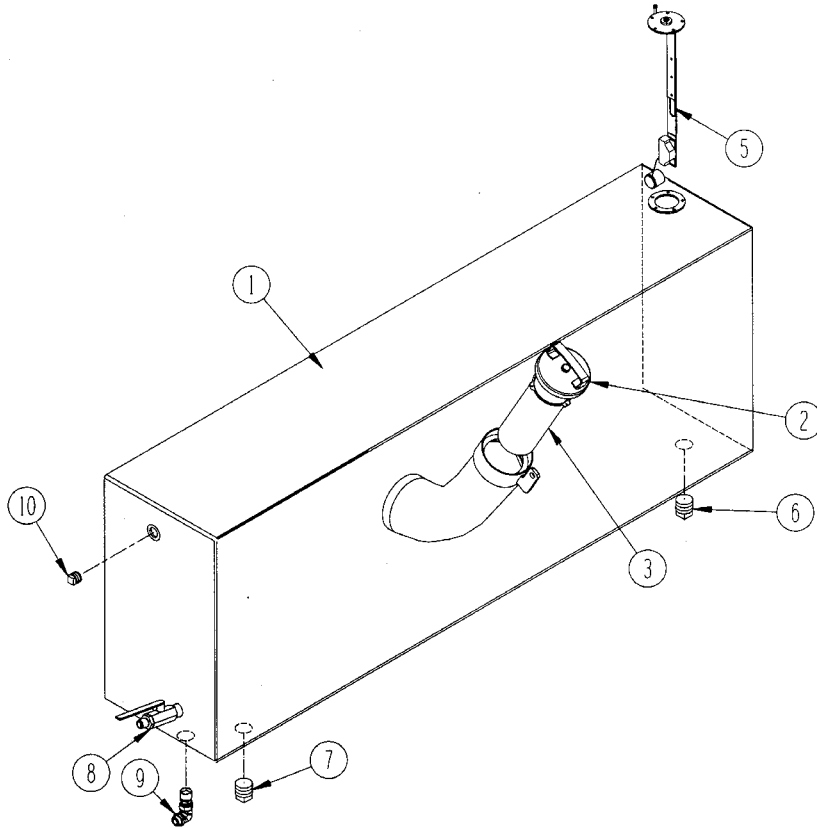
ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1	500385	Hydraulic Oil Cooler .....	1
--	500383	. . Cooler Core .....	1
--	500384	. . Cooler Fan.....	1
2	660121	Temperature Switch .....	1
3	0603-20-16	Reducing Adapter.....	1
4	053T-20-20	Tee Adapter.....	1
5	802337	Cooler Mount Flat.....	2
6	2503-20-20	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 S/N 800201 and Above

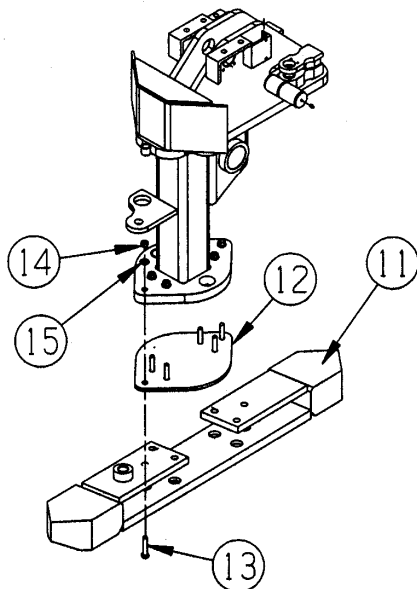
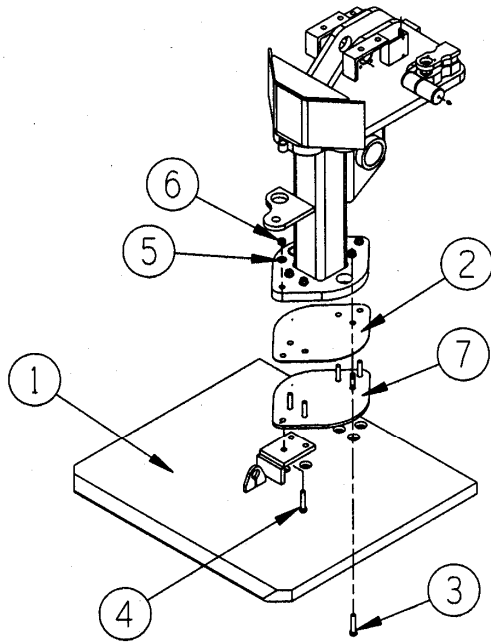


ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1	802151	Fuel Tank.....	1
2	2284 0030	Fuel Filler Cap.....	1
3	6090 178	Fuel Filler Strainer.....	1
4*	2503-12-6	90° Elbow.....	2
5	810647	Fuel Sender .....	1
6	3799-1	Square Head Plug.....	1
7	05CP-8	Hex Head Plug.....	1
8	F-426	Ball Valve.....	1
9	2103-12-8	90° Male Elbow.....	1
10	3636	Square Head Plug.....	1
11*	A-31372	Diesel Fuel Specification Decal .....	1

Mounting Hardware (not shown):

15	771	Hex Bolt, 5/8 x 1-1/2 Grade 8 .....	4
16	2766	Lockwasher.....	4
17	2755-2	Flat Washer.....	4

## FIGURE 11-1. FRONT PLOW TIE JUMPERS S/N 800201 and Above

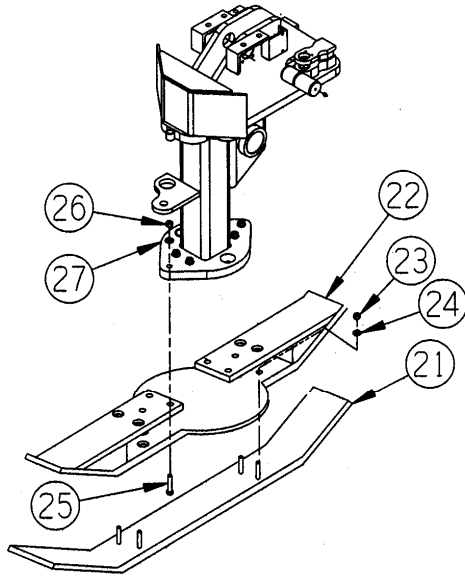


ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
--	802363	Flanging Plate Assembly (Snow Only).....	1
1	802362	. Flanging Plate .....	1
2	B-27862	. Blade Shim.....	1
3	0933	. Bolt, Hex 3/4 x 6 (Grade 5) .....	3
4	0929	. Bolt, Hex 3/4" x 5-1/2" (Grade 5).....	3
5	2768	. 3/4" Lockwasher .....	6
6	2516	. 3/4" Hex Nut .....	6
7	B-25076	. Protection Plate.....	1
--	800055	Ski Type Tie Jumper Assembly.....	1
11	B-27665	. Ski Type Tie Jumper Assembly.....	1
12	B-25076	. Protection Plate .....	1
13	2446	. Plow Bolt 5/8" x 4-1/2 nc .....	6
14	2668	. 5/8" Stover Nut .....	6
15	2739	. 5/8" Washer.....	6

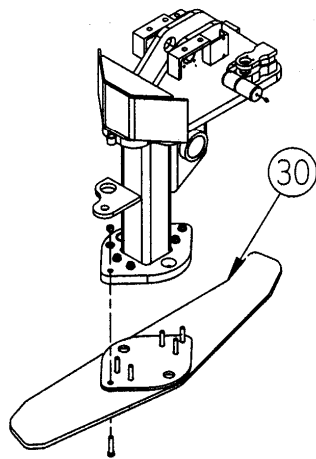
Continued on next Page



## FIGURE 11-1. FRONT PLOW TIE JUMPERS S/N 800201 and Above

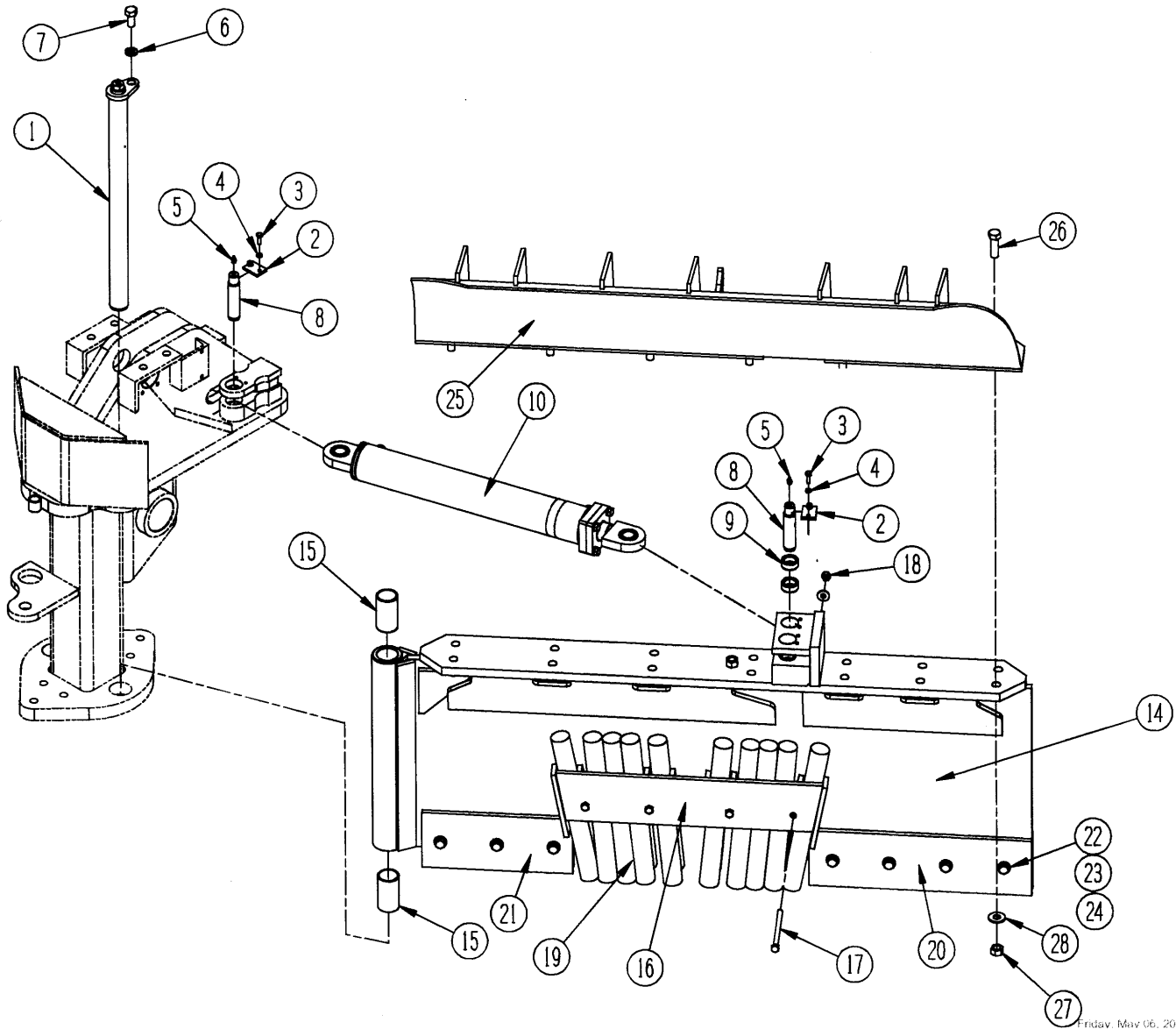


ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
--	800069	BTI Tie Jumper Assembly .....	1
21	840152	. Front Skid Shoe .....	1
22	840151	. Tie Jumper Adapter.....	1
23	2664	. 1/2" Hex Nut.....	4
24	2775-1	. 1/2" Flat Washer.....	4
25	2453	. 3/4 x 4-1/2 Hex Capscrew .....	6
26	2670	. 3/4" Nut.....	6
27	2755-3	. 3/4 Flat Washer.....	6
30	B-32383	Standard Tie Jumper.....	1





**FIGURE 11-2-1. FRONT PLOW**  
**Left Ballast Plow**  
**S/N 800201 and Above**



Friday, May 06, 2006

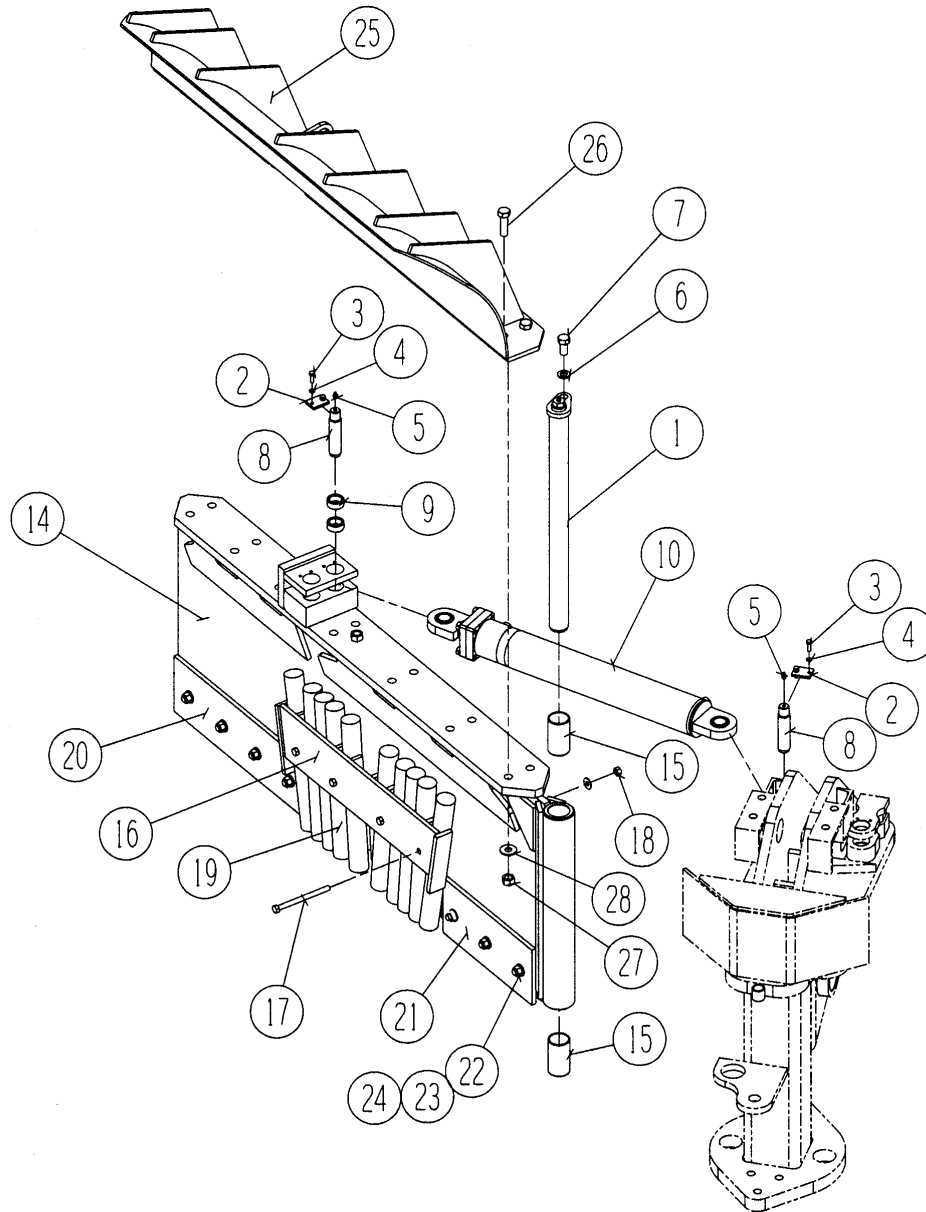
## FIGURE 11-2-1. FRONT PLOW Left Ballast Plow S/N 800201 and Above

ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1	A-40548	Plow Hinge Rod.....	1
2	A-5200-61	Keeper Plate.....	2
3	0195	Capscrew 5/16 x 1.....	2
4	2761	5/16" Lockwasher.....	2
5	3004	Fitting, Grease.....	3
6	2768	Washer.....	1
7	0875	Bolt.....	1
8	810491	Pin, Cylinder Pivot.....	2
9	860535	Bushing, Cylinder Pivot.....	8
10	7500-120	Cylinder.....	1
--	SK-7500-98	.. Seal Kit.....	1
11	3895	Clamp, Support.....	4
12	0367	Bolt, Hex 3/8 x 3-3/4.....	1
13	2735	Washer, 3/8".....	1
14	810223	Plow Blade.....	1
15	A-25077	Bushing.....	2
16	860310	Element Clamp.....	2
17	0615	Bolt, 1/2 x 6.....	4
18	2664	Nut, Stover.....	4
19A	B-40792	Plow Element (Derby).....	20
19B	B-40791	Plow Element (U-Nova).....	20
19C	B-27738	Plow Element (Polyco).....	20
20A	A-40323	Blade, 4-Hole (Standard).....	2
20B	840166	Blade, 4-Hole (BTI/Nordco) 1/2".....	2
20C	840167	Blade, 4-Hole (BTI/Nordco) 3/4".....	2
21A	A-25095	Blade, 3-Hole (Standard).....	2
21B	840164	Blade, 3-Hole (BTI/Nordco) 1/2".....	2
21C	840165	Blade, 3-Hole (BTI/Nordco) 3/4".....	2
22	0797	Bolt, Hex 5/8 x 3.....	7

ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
23	2668	Nut, Stover 5/8.....	7
24	2755-2	Washer, 5/8.....	14
25	860201	LH Ballast Curl (Optional).....	1
26	0897	Bolt, Hex 3/4 x 2-3/4.....	14
27	2670	Nut, Stover.....	14
28	2755-3	Washer, 3/4 Alloy Flat.....	14
29*	810325	Door, Rail Sweeper (Optional).....	1

For Sliding Door Option, See Figure 11-2-3

**FIGURE 11-2-2. FRONT PLOW  
Right Ballast Plow  
S/N 800201 and Above**





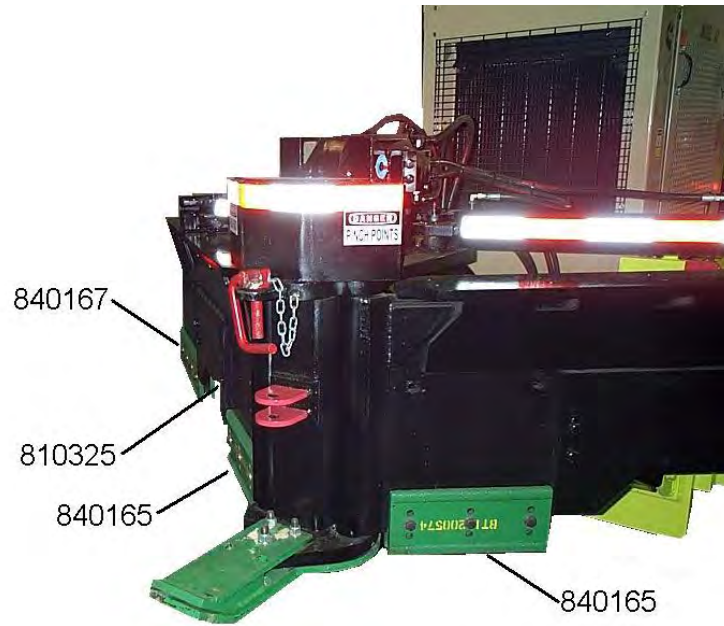
## FIGURE 11-2-2. FRONT PLOW Right Ballast Plow S/N 800201 and Above

ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1	A-40548	Plow Hinge Rod.....	1
2	A-5200-61	Keeper Plate.....	2
3	0195	Capscrew 5/16 x 1.....	2
4	2761	5/16" Lockwasher.....	2
5	3004	Fitting, Grease.....	3
6	2768	Washer.....	1
7	0875	Bolt.....	1
8	810491	Pin, Cylinder Pivot.....	2
9	860535	Bushing, Cylinder Pivot.....	8
10	7500-120	Cylinder.....	1
--	SK-7500-98	.. Seal Kit.....	1
11	3895	Clamp, Support.....	4
12	0367	Bolt, Hex 3/8 x 3-3/4.....	1
13	2735	Washer, 3/8".....	1
14	810223	Plow Blade.....	1
15	A-25077	Bushing.....	2
16	860310	Element Clamp.....	2
17	0615	Bolt, 1/2 x 6.....	4
18	2664	Nut, Stover.....	4
19A	B-40792	Plow Element (Derby).....	20
19B	B-40791	Plow Element (U-Nova).....	20
19C	B-27738	Plow Element (Polyco).....	20
20A	A-40323	Blade, 4-Hole (Standard).....	2
20B	840166	Blade, 4-Hole (BTI/Nordco) 1/2".....	2
20C	840167	Blade, 4-Hole (BTI/Nordco) 3/4".....	2
21A	A-25095	Blade, 3-Hole (Standard).....	2
21B	840164	Blade, 3-Hole (BTI/Nordco) 1/2".....	2
21C	840165	Blade, 3-Hole (BTI/Nordco) 3/4".....	2
22	0797	Bolt, Hex 5/8 x 3.....	7

ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
23	2668	Nut, Stover 5/8.....	7
24	2755-2	Washer, 5/8.....	14
25	860202	RH Ballast Curl (Optional).....	1
26	0897	Bolt, Hex 3/4 x 2-3/4.....	14
27	2670	Nut, Stover.....	14
28	2755-3	Washer, 3/4 Alloy Flat.....	14
29*	810325	Door, Rail Sweeper (Optional).....	1

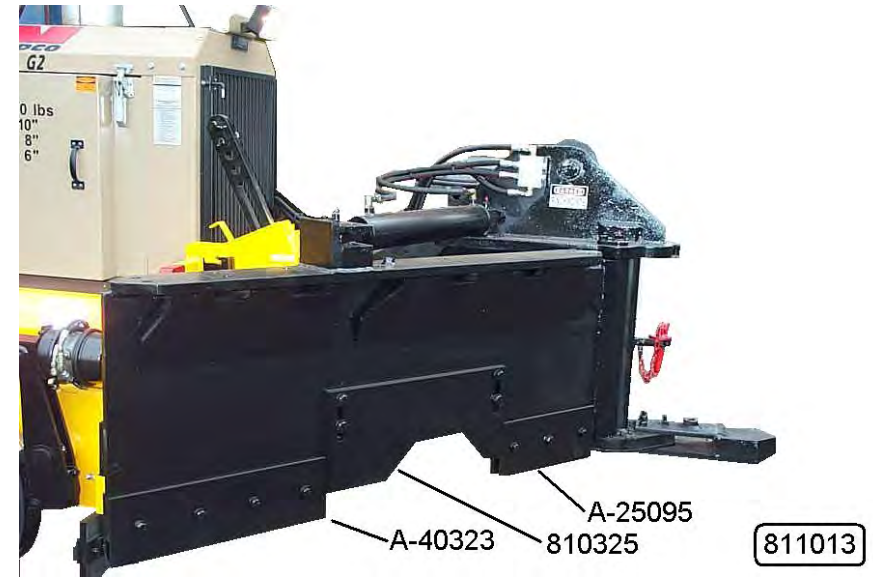
For Sliding Door Option, See Figure 11-2-3

**FIGURE 11-2-3. FRONT PLOW  
Sliding Door Options  
S/N 800201 and Above**



810245

**Sliding Door with BTI Blades**

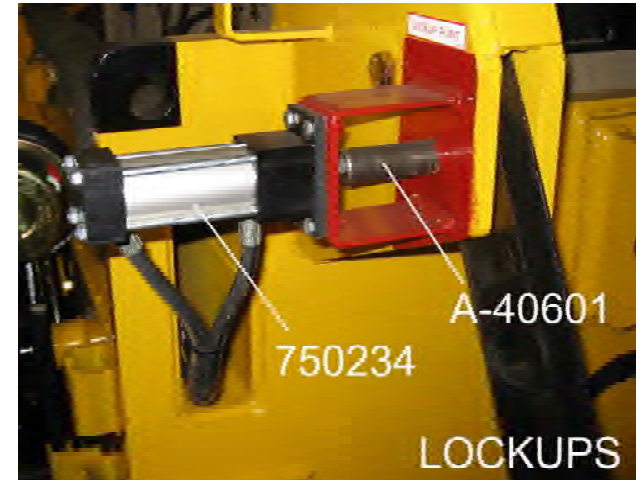
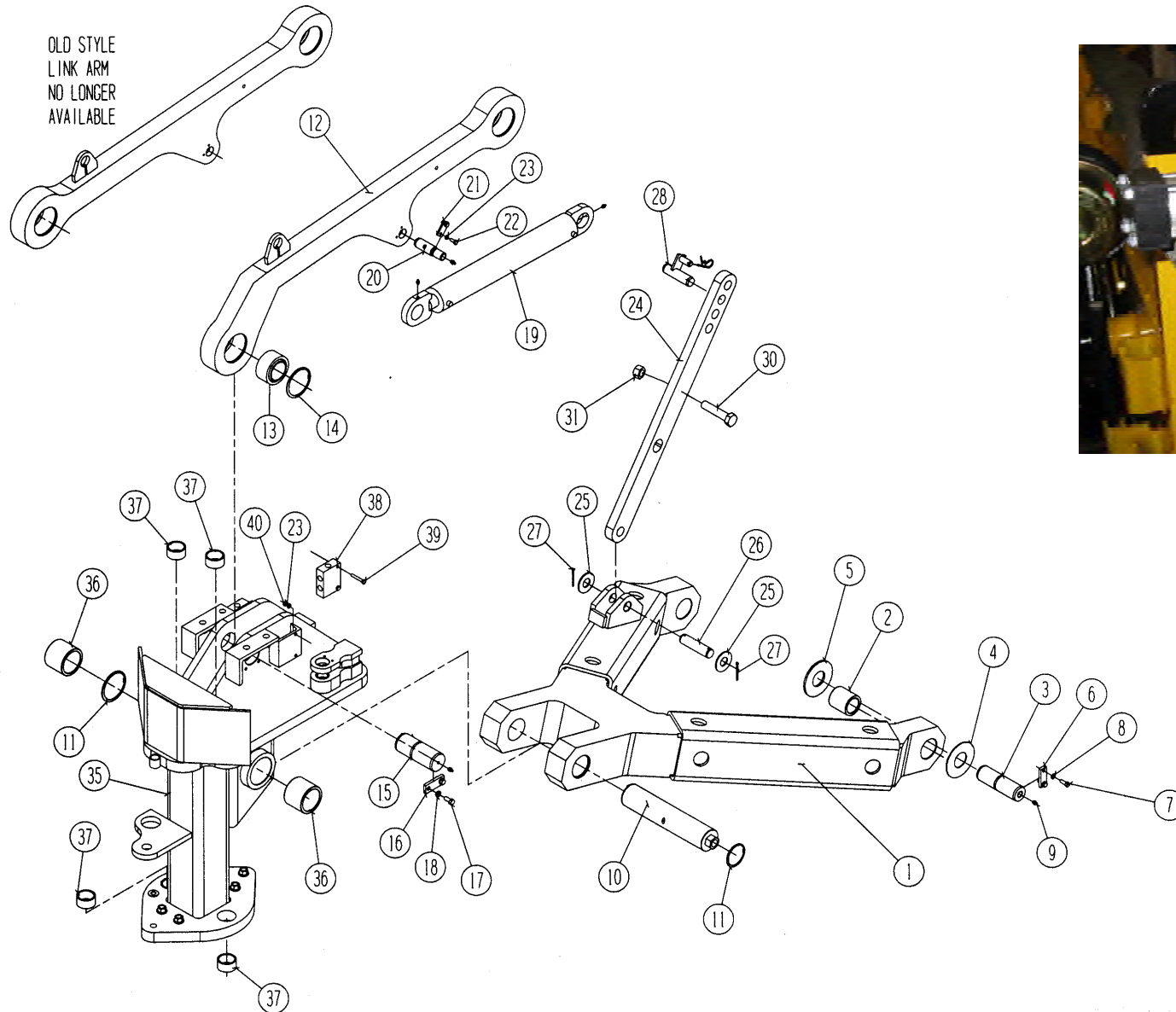


811013

**Sliding Door with Hard-Ox Blades**



**FIGURE 11-3. FRONT PLOW**  
**Front Plow Carrier**  
**S/N 800201 and Above**



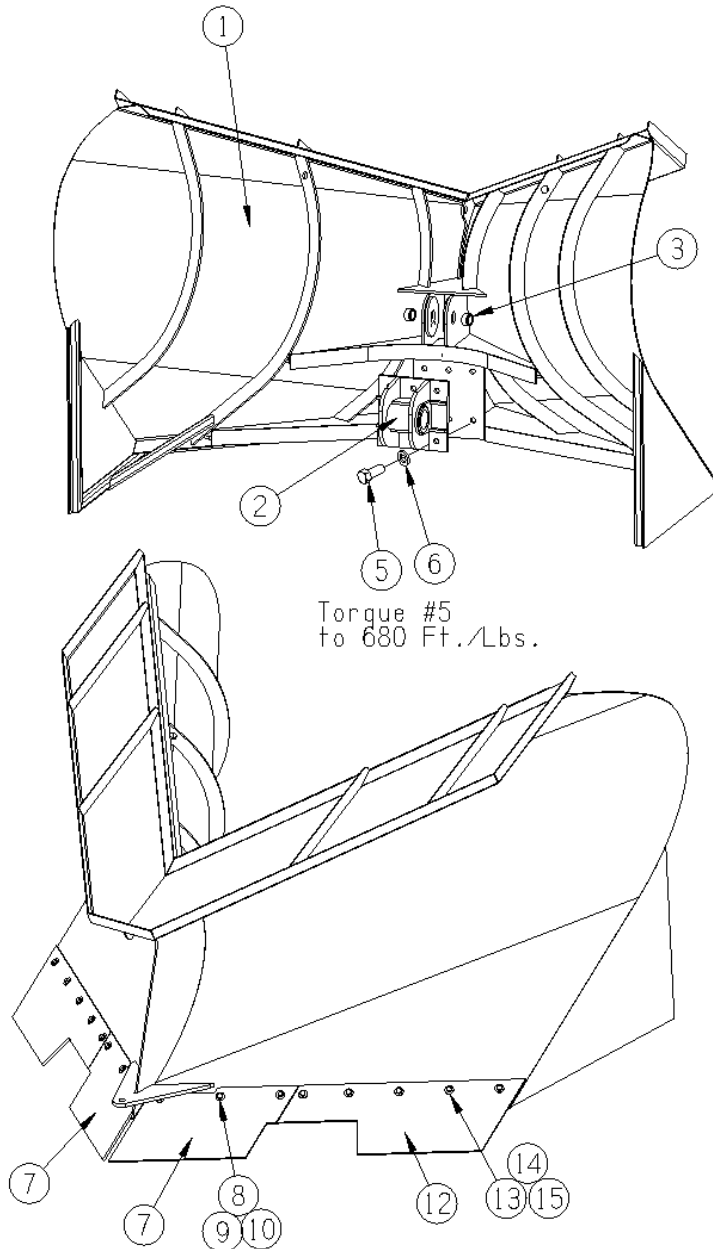
## FIGURE 11-3. FRONT PLOW Front Plow Carrier S/N 800201 and Above

ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1	860574	Lift Arm .....	1
2	A-6500-7	Bushing.....	2
3	B-40588	Lower Pivot Pin.....	2
4	A-40595	Washer, Thin .....	2
5	A-40594	Washer, Thick.....	2
6	A-5200-31	Keeper Plate.....	2
7	0323	Capscrew HH .....	4
8	2762	Lockwasher .....	4
9	3004	Grease Fitting .....	10
10	B-40579	Pivot Pin .....	1
11	7667	Internal Retaining Ring .....	2
12	802068	Link Arm .....	1
13	6521	Spherical Self-Aligning Bearing .....	2
14	7666	Internal Retaining Ring .....	2
15	B-40587	Link Pin.....	2
16	A-5200-41	Keeper Plate.....	2
17	0439	Capscrew HH .....	4
18	2763	Lockwasher .....	4
19	7500-227	Cylinder, Front Plow Lift .....	1
--	SK-7500-227	.. Seal Kit .....	1
20	B-4705-5	Pin .....	2
21	A-5200-21	Keeper Plate.....	2
22	0187	Capscrew HH .....	4
23	2761	Lockwasher .....	4
24	860309	Lock Out Bar.....	1
25	2717	Washer .....	2
26	A-5006-21	Cotter Type Headless Pin.....	1
27	2819	Cotter Pin.....	2
28	B-40609	Pin, Pivot .....	1
29*	2871	Pin, Hitch .....	1
30	0915	Bolt, Hex .....	1
31	2670	Nut, Stover.....	1
32*	A-40606	Shim, Thick (Lockout Bar) .....	3
33*	A-40607	Shim, Thin (Lockout Bar).....	2

ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
34*	A-40608	Pipe, Lock Strut.....	1
35	860551	Front Mount.....	1
36	A-40596	Steel Bushing .....	2
37A	A-27763	Bushing, Hardened .....	4
37B	860535	Bushing, Hardened .....	4
38	F-611	Valve, Check .....	2
39	0211	Bolt, Hex 5/16 x 2.....	4
40	2504	Nut, Hex .....	4

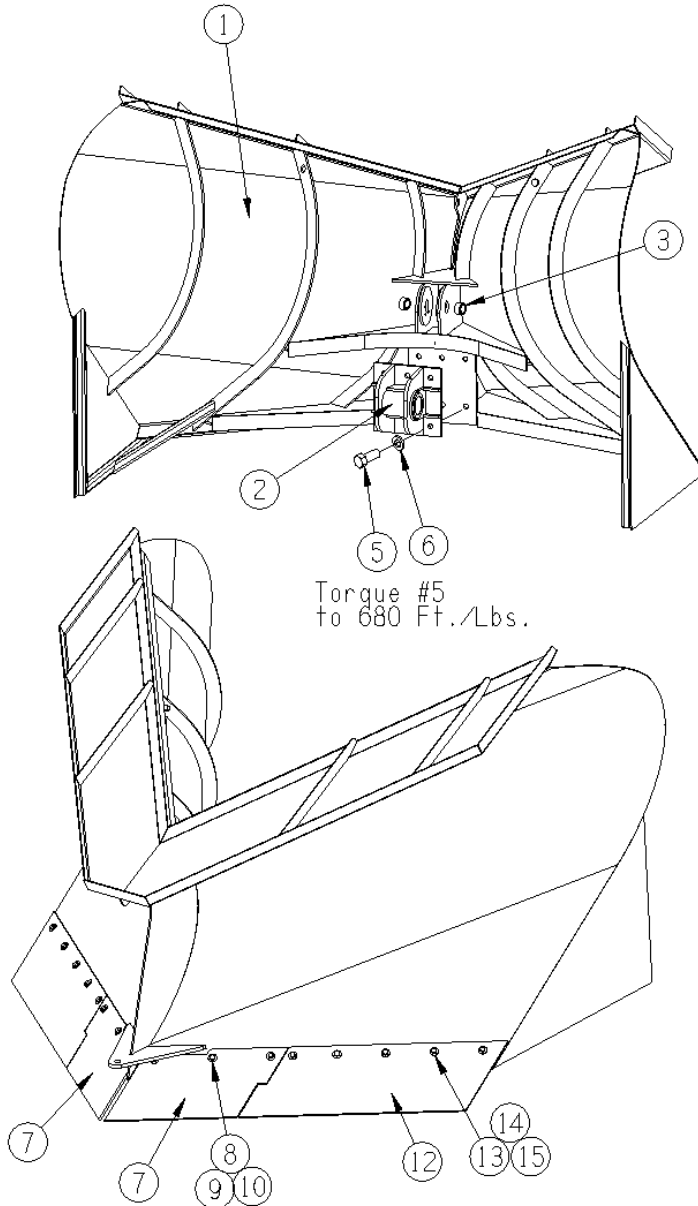


## FIGURE 11-4-1. FRONT PLOW High Speed V-Plow (Std) w/Blade Cutouts S/N 800201 and Above



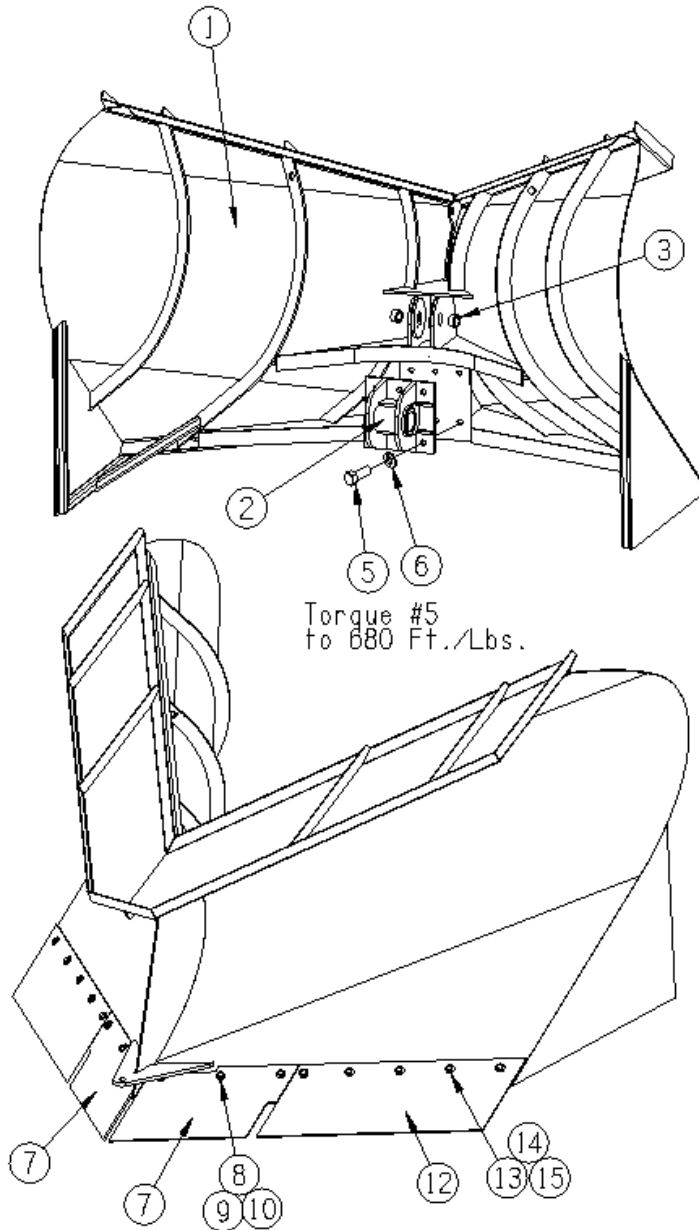
ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1	802364	High Speed V-Plow (120").....	1
2	802365	Mounting Pivot.....	1
3	A-40596	Steel Bushing .....	2
4	802371	Locking Plate.....	3
5	1103	1" x 3-1/2" Hex Bolt (Grade 8).....	6
6	2742	1" SAE Flat Washer.....	6
--	802369	Inside Flanging Assembly .....	1
7	802366	Inside Flanging Plate.....	2
8	0785	. 5/8" x 2-1/4" Hex Bolt (Grade 5).....	6
9	2668	. 5/8" Stover Nut .....	6
10	2739	. 5/8" Washer.....	12
--	802370	Outside Flanging Assembly.....	1
12	802367	. Outside Flanging Plate .....	2
13	0785	. 5/8" x 2-1/4" Hex Bolt (Grade 5).....	10
14	2668	. 5/8" Stover Nut .....	10
15	2739	. 5/8" Washer.....	20
16*	840040	Front Light Bracket.....	1

## FIGURE 11-4-2. FRONT PLOW High Speed V-Plow w/Straight Outside Flanging S/N 800201 and Above



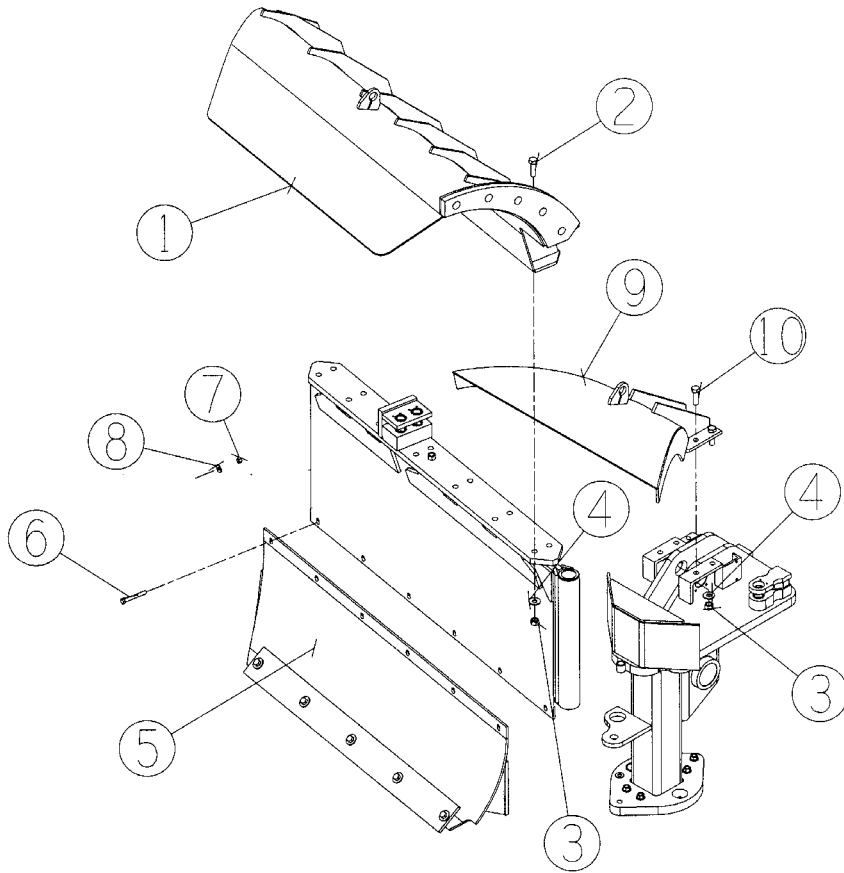
ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1	802364	High Speed V-Plow (120").....	1
2	802365	Mounting Pivot.....	1
3	A-40596	Steel Bushing .....	2
4	802371	Locking Plate.....	3
5	1103	1" x 3-1/2" Hex Bolt (Grade 8).....	6
6	2742	1" SAE Flat Washer.....	6
--	802369	Inside Flanging Assembly .....	1
7	802366	. Inside Flanging Plate.....	2
8	0785	. 5/8" x 2-1/4" Hex Bolt (Grade 5).....	6
9	2668	. 5/8" Stover Nut .....	6
10	2739	. 5/8" Washer.....	12
--	460247	Outside Flanging Assembly.....	1
12	700250	. Outside Flanging Plate .....	2
13	0785	. 5/8" x 2-1/4" Hex Bolt (Grade 5).....	10
14	2668	. 5/8" Stover Nut .....	10
15	2739	. 5/8" Washer.....	20
16*	840040	Front Light Bracket.....	1

## FIGURE 11-4-3. FRONT PLOW High Speed V-Plow w/Protective Outside Flanging S/N 800201 and Above



ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1	802364	High Speed V-Plow (120").....	1
2	802365	Mounting Pivot.....	1
3	A-40596	Steel Bushing .....	2
4	802371	Locking Plate.....	3
5	1103	1" x 3-1/2" Hex Bolt (Grade 8).....	6
6	2742	1" SAE Flat Washer.....	6
--	802369	Inside Flanging Assembly .....	1
7	802366	. Inside Flanging Plate.....	2
8	0785	. 5/8" x 2-1/4" Hex Bolt (Grade 5).....	6
9	2668	. 5/8" Stover Nut .....	6
10	2739	. 5/8" Washer.....	12
--	460284	Outside Flanging Assembly.....	1
12	700279	. Outside Flanging Plate .....	2
13	0785	. 5/8" x 2-1/4" Hex Bolt (Grade 5).....	10
14	2668	. 5/8" Stover Nut .....	10
15	2739	. 5/8" Washer.....	20
16*	840040	Front Light Bracket.....	1

## FIGURE 11-5-1. FRONT PLOW Snow Curls S/N 800201 and Above

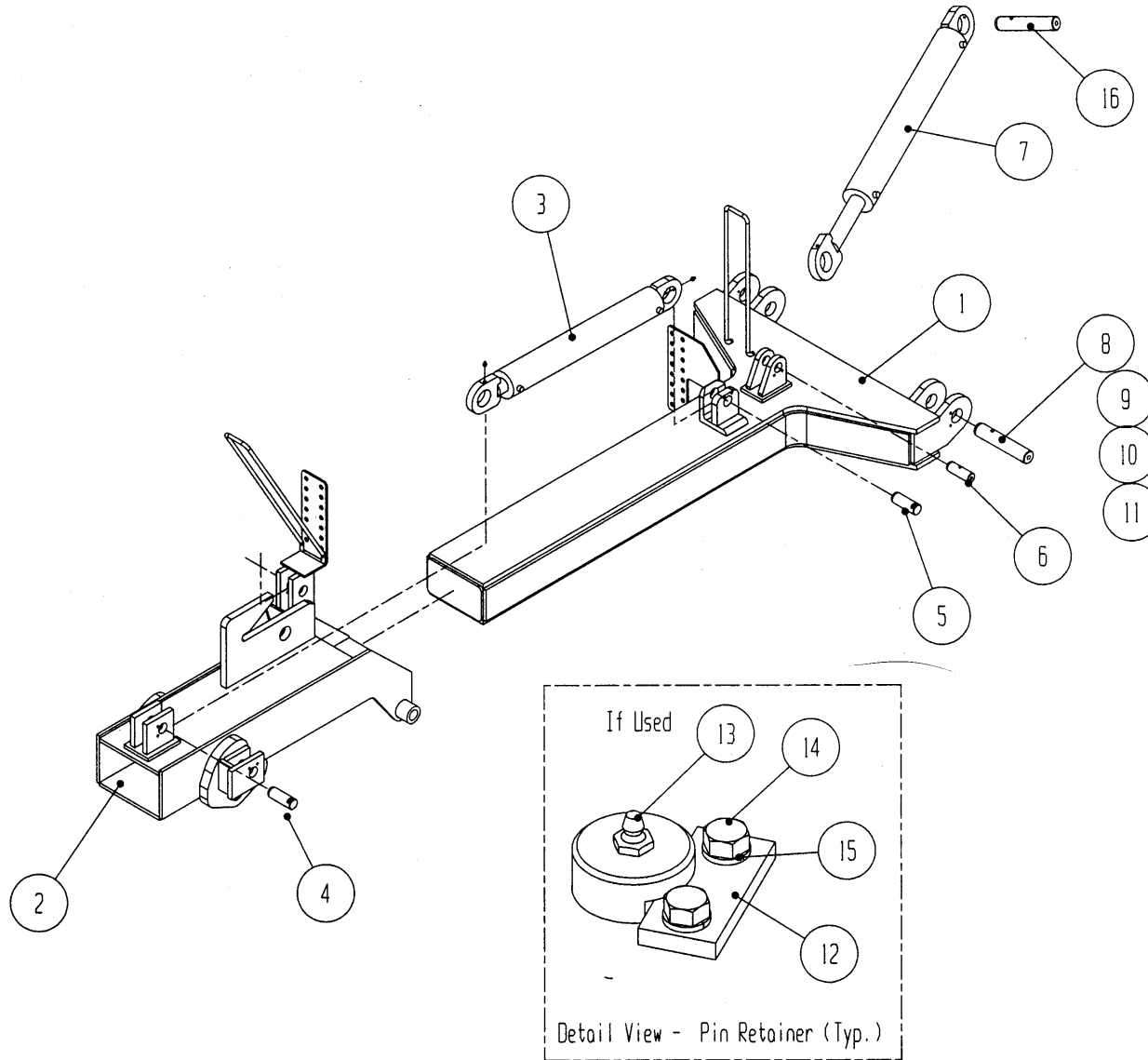


ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1A	802212	Upper Snow Curl, RH (Shown)	1
1B*	802211	Upper Snow Curl, LH	1
2	0893	Bolt, Hex	32
3	2670	Nut, Stover	32
4	2740	Washer	32
5A	802216	Lower Snow Curl, RH (Shown)	1
5B*	802215	Lower Snow Curl, LH	1
6	0793	Bolt, Hex 5/8 NC x 2-3/4 Grade 5	20
7	2668	Nut, Stover	20
8	2708	Washer, 5/8" Flat	40
9	802213	Center Cover	1
10	0885	Bolt, Hex 3/4 x 2 Grade 5	4



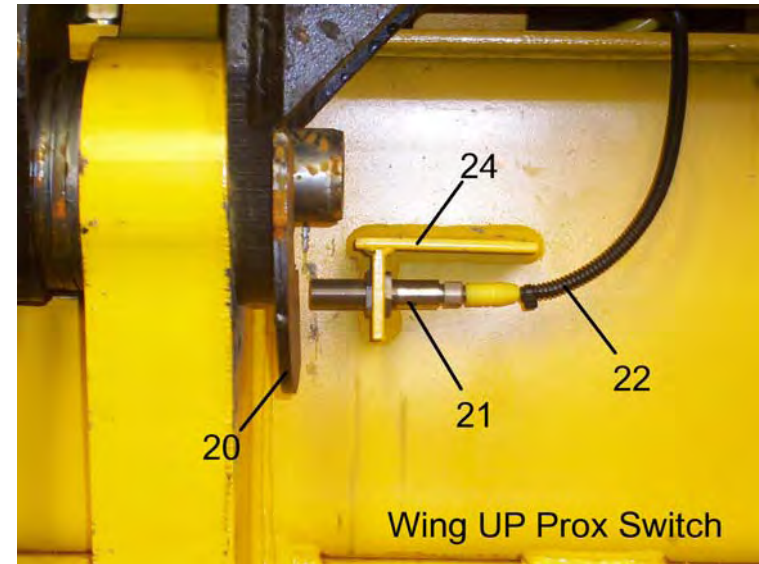


# FIGURE 12-1A. LEFT BALLAST WING Ballast Wing Boom S/N 800227, 800229 & Above



**FIGURE 12-1A. LEFT BALLAST WING  
Ballast Wing Boom  
S/N 800227, 800229 & Above**

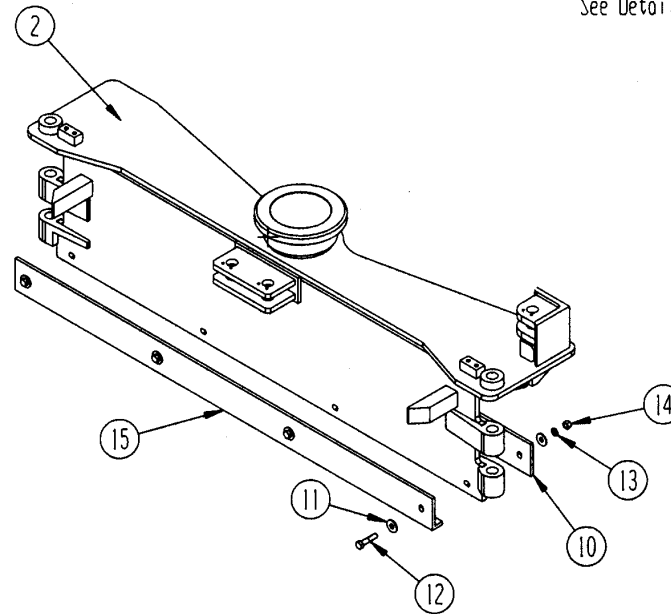
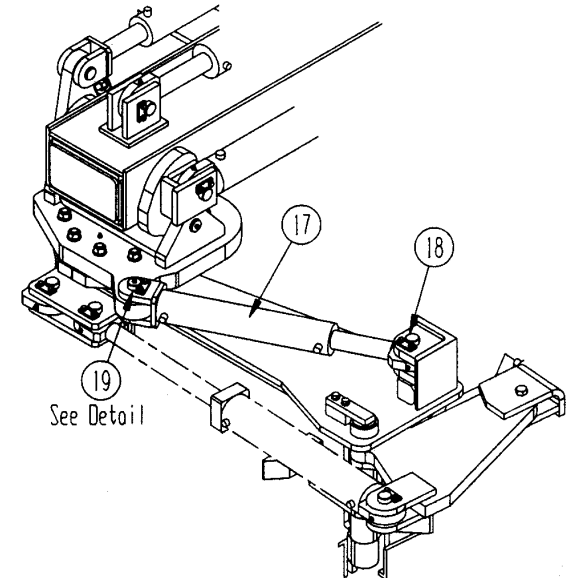
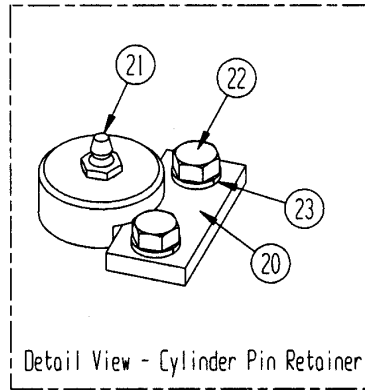
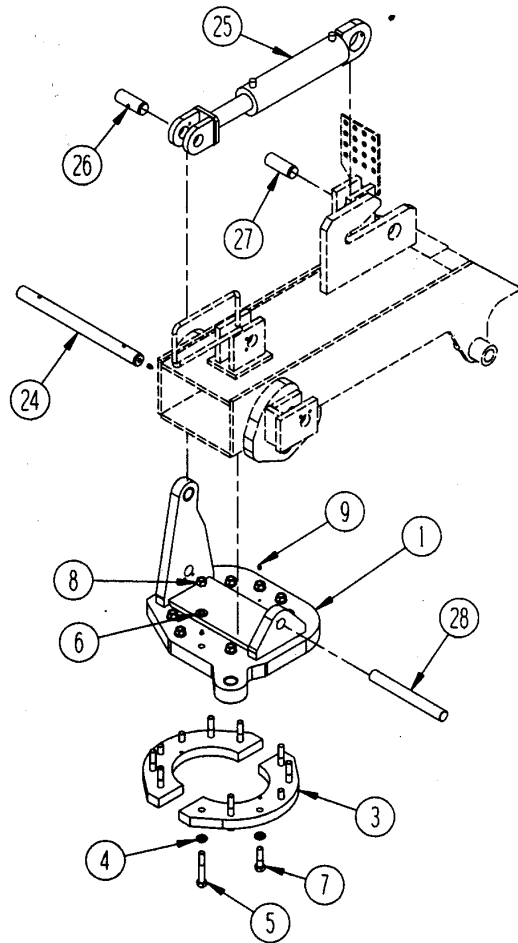
ITEM NO.	PART NO.	DESCRIPTION	UNITS PER ASSY
1	810370	Boom, Left Wing Inner.....	1
2	810350	Boom, Left Wing Outer.....	1
3	810401	Cylinder, Outer Boom In/Out.....	1
--	SK-7500-98	. . Seal Kit.....	1
4	810492	Pin, Cylinder Mounting.....	2
5	700283	Pin, Mounting.....	2
6	700183	Pin, Mounting.....	2
7	750229	Wing Lift Cylinder.....	1
8	A-25470	Pin.....	4
9	A-5200-21	Pin Retainer Plate.....	6
10	2761	Lockwasher.....	24
11	0187	Bolt.....	12
12	810447	Plate, Pin Retainer.....	6
13A	3004	Fitting Grease.....	6
13B	3014	Fitting Grease 90°.....	2
14	0187	Capscrew, HH 5/16 x 3/4.....	12
15	2761	Lockwasher, 5/16".....	12
16	700182	Pin, Wing Cylinder.....	2



The following items are located on the frame next to the wings and control the Wing UP functions. When switching from ballast to snow wings, item 20A is replaced by 20B.

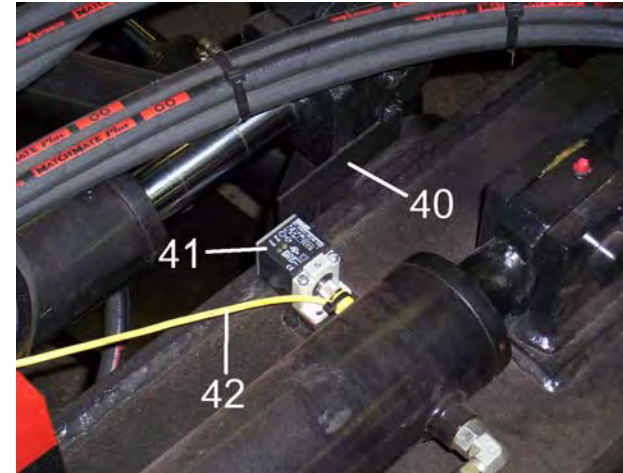
ITEM NO.	PART NO.	DESCRIPTION	UNITS PER ASSY
20A	700085	Flag, Prox Switch (Summer).....	1
20B	700084	Flag, Prox Switch (Winter).....	1
21	5127411	Switch, Prox.....	1
22	22311601-060	Cable, Microfast Prox Switch.....	1
24	802072	Prox Switch Mtg. Bracket.....	1

# FIGURE 12-2. LEFT BALLAST WING Outer Door S/N 800201 and Above



## FIGURE 12-2. LEFT BALLAST WING Outer Door S/N 800201 and Above

ITEM NO.	PART NO.	DESCRIPTION	UNITS PER ASSY
1	802443	Top Plate, LH.....	1
2	810420	Outer Door Weldment, LH.....	1
3	810489	Retainer, Top Plate.....	2
4	2769	Lockwasher, 13/16".....	4
5	0895	Capscrew, HH 3/4 x 2-3/4.....	4
6	2755-3	Washer, Flat 3/4".....	16
7	0919	Capscrew, HH 3/4 x 4-1/2.....	8
8	2670	Nut, Stover 3/4".....	8
9	3014	Fitting Grease.....	2
10	840182	Blade, Outer Door Liner (Carbide).....	1
11	2708	Washer, 11/16 x 1-3/4 OD.....	8
12	0793	Capscrew, HH 5/8 x 2-3/4.....	4
13	2766	Lockwasher, 5/8.....	4
14	2514	Nut, Hex 5/8.....	4
15A	840181	Blade, Outer Door L-Bar (Carbide).....	1
15B	B-25787	Blade, Outer Door (Std).....	2
17	810406	Cylinder, Outer Door.....	1
--	SK-7500-64	.. Seal Kit.....	1
18	810337	Pin, Cylinder Mounting.....	1
19	810436	Pin, Cylinder Mounting.....	1
20	810447	Plate, Pin Retainer.....	2
21	3004	Fitting, Grease.....	1
22	0187	Capscrew, HH 5/16 x 3/4.....	4
23	2761	Lockwasher, 5/16".....	4
24	810334	Pin.....	1
25	810404	Outer Door Tilt Cylinder.....	1
26	810692	Pin.....	1
27	810492	Pin.....	1
28	700076	Pipe.....	1

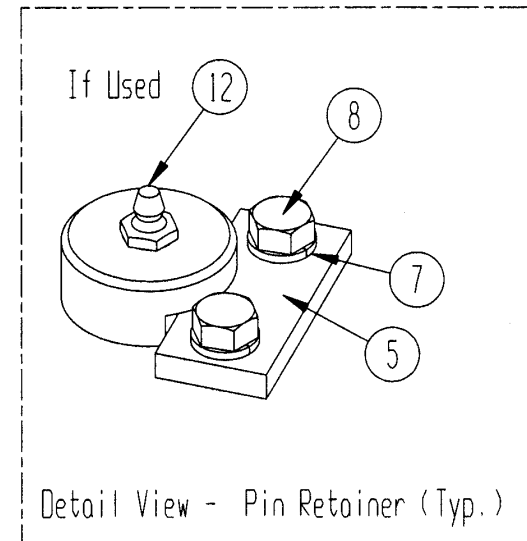
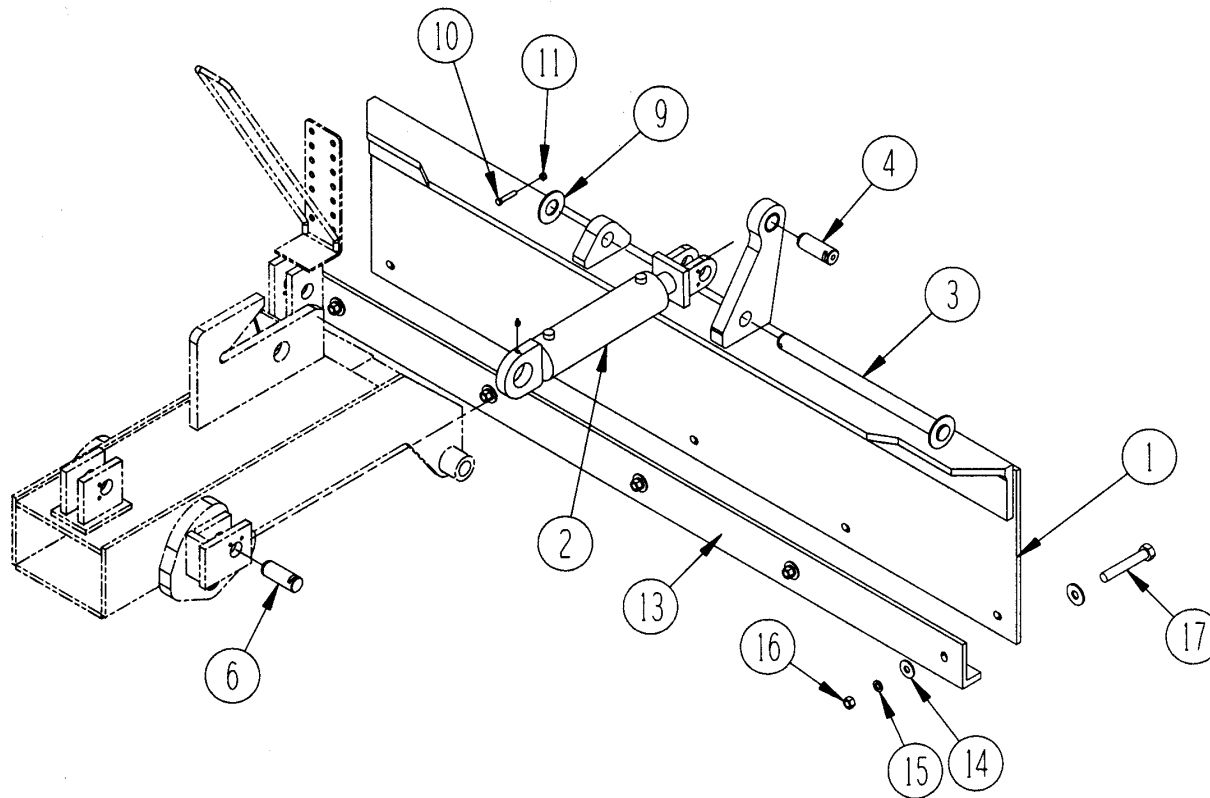


The following items are located on the outer door assembly and control the Door Tilt functions. To switch out to snow wings, the prox cable should be removed from the junction box only (hoses and cables remain attached to outer door components)

ITEM NO.	PART NO.	DESCRIPTION	UNITS PER ASSY
40	802 076	Flag, Prox Switch.....	1
41	5127 415	Switch, Prox (Stubby).....	1
42	22311601-184	Cable, Microfast Prox Switch.....	1

NOTE: Items 10 and 15A are BTI/Nordco Partnership Parts

**FIGURE 12-3. LEFT BALLAST WING**  
**Inner Door**  
**S/N 800201 and Above**



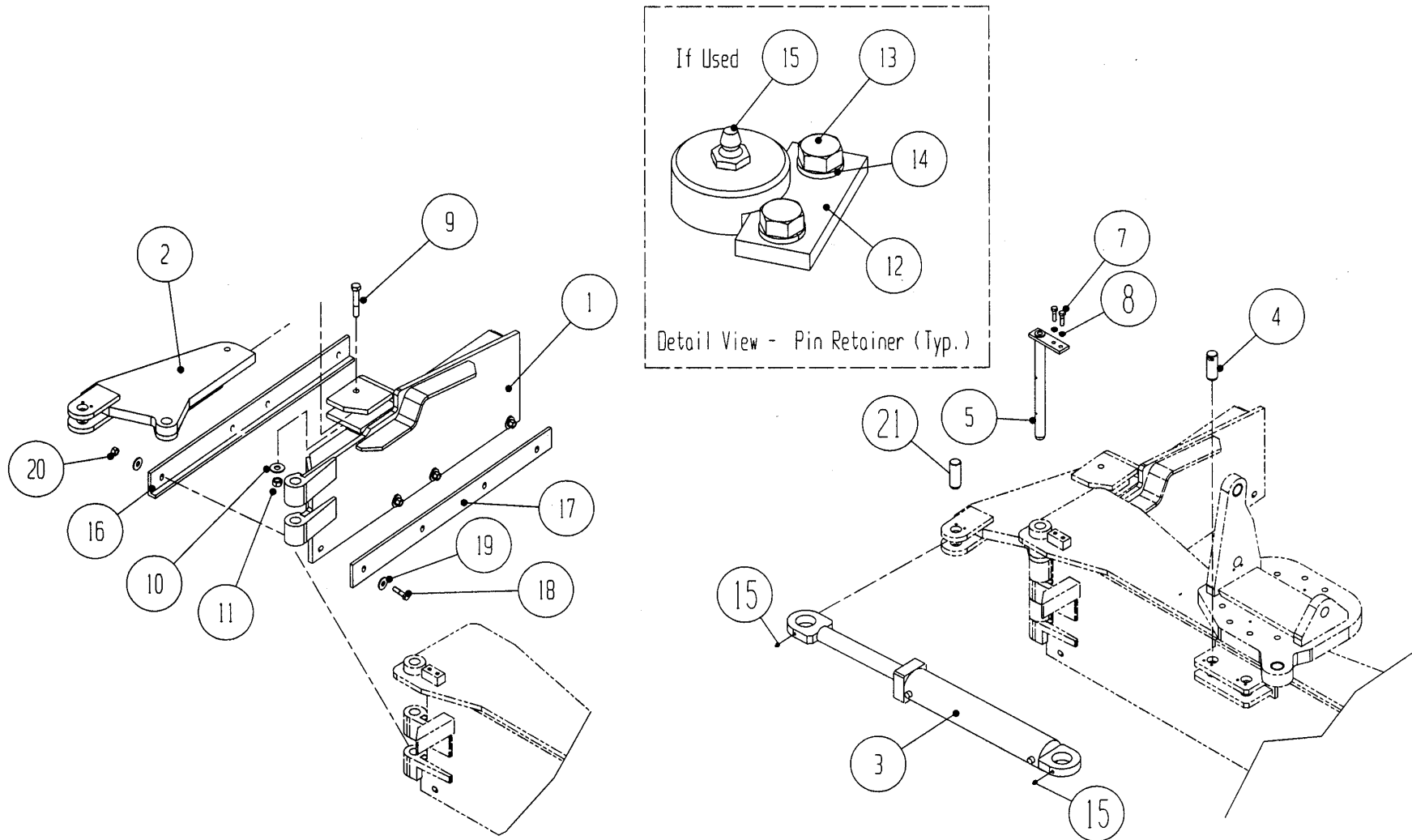


## FIGURE 12-3. LEFT BALLAST WING Inner Door S/N 800201 and Above

ITEM NO.	PART NO.	DESCRIPTION	UNITS PER ASSY
1	810365	Inner Door, LH.....	1
2	810400	Cylinder, Inner Door .....	1
3	810336	Pin .....	1
4	810491	Pin .....	1
5	810447	Plate, Pin Retainer.....	1
6	810337	Pin .....	1
7	2761	Lockwasher, 5/16" .....	4
8	0187	Capscrew, HH 5/16 x 3/4.....	4
9	2721	Washer, 1-9/16 x 3-1/4 OD.....	1
10	0339	Capscrew, HH 3/8 x 2.....	1
11	2660	Nut, Stover 3/8" .....	1
12	3004	Fitting, Grease.....	1
13A	840202	Blade, Inner Door (Carbide)(Opt.) .....	2
13B	B-40504	Blade, Inner Door (Std).....	2
14	2708	Washer, 11/16 x 1-3/4 OD.....	8
15	2766	Lockwasher, 5/8 .....	4
16	2514	Nut, Hex 5/8 .....	4
17	0793	Capscrew, HH 5/8 x 2-3/4 .....	4

NOTE: Item 13A is a BTI/Nordco Partnership Part

**FIGURE 12-4-1. BALLAST WING  
Left Front Template Door  
Non-Articulating  
S/N 800201 and Above**

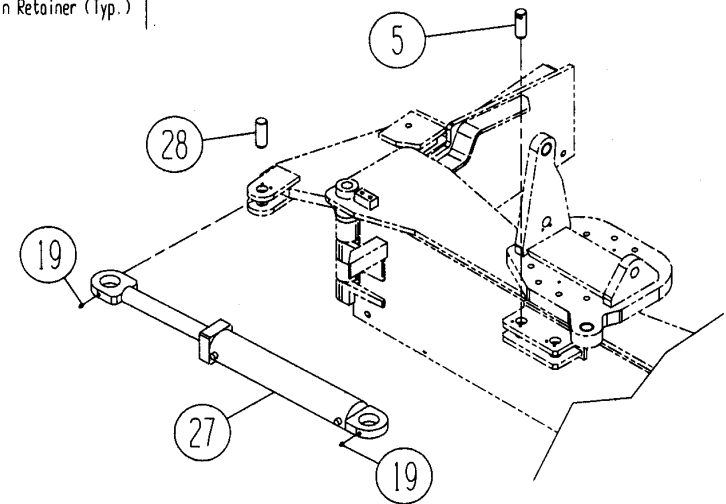
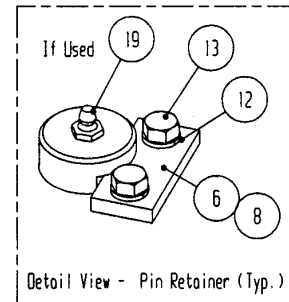
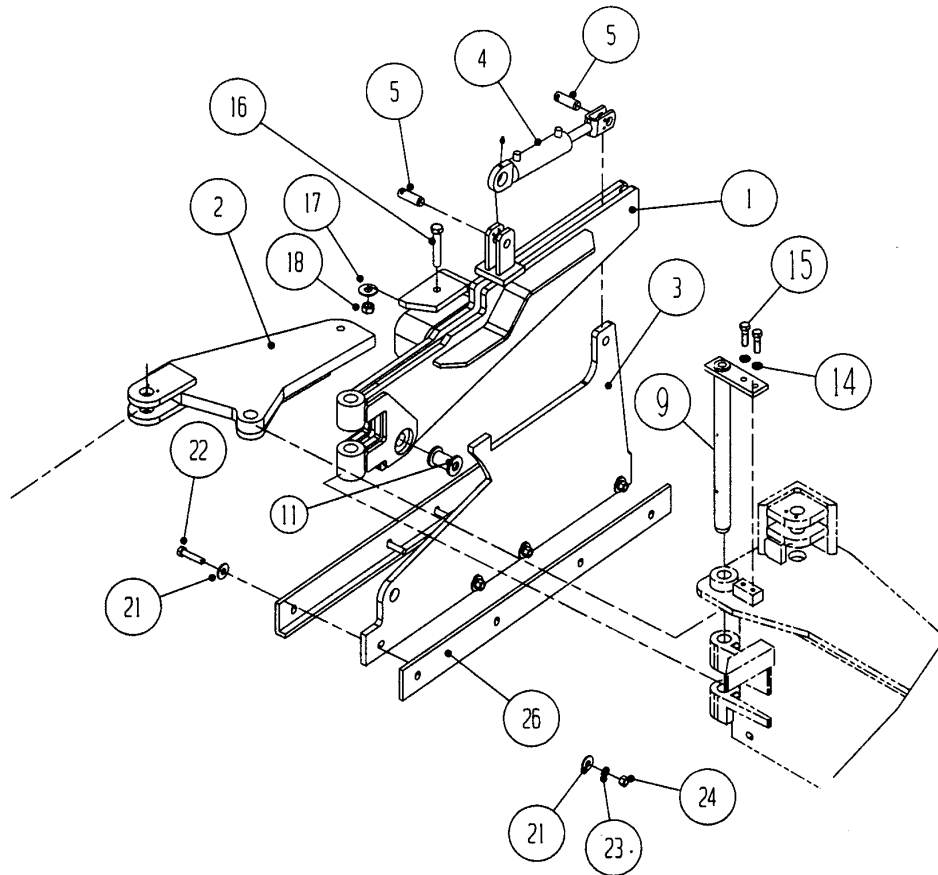


## FIGURE 12-4-1. BALLAST WING Left Front Template Door Non-Articulating S/N 800201 and Above

ITEM NO.	PART NO.	DESCRIPTION	UNITS PER ASSY
1	810275	Template Door.....	1
2	810483	Cylinder Mounting Plate .....	1
3	810403	Door In/Out Cylinder.....	1
--	SK-7500-98	.. Seal Kit.....	1
4	810492	Cylinder Mounting Pin .....	1
5	810494	Door Mounting Pin.....	1
6	810314	Door Pin Keeper Plate.....	1
7	0563	Bolt, Hex.....	2
8	2764	Lockwasher .....	2
9	620011	Bolt, Hex Head (Grade 2).....	1
10	2710	Washer .....	1
11	2670	Nut, Stover .....	1
12	810447	Keeper Plate.....	2
13	0187	Bolt, Hex.....	4
14	2761	Washer .....	4
15	3004	Grease Fitting.....	3
16A	840190	L-Bar Door Blade (BTI)(Opt.).....	1
16B	B-25788	Template Door Blade (Std.).....	2
17	840191	Door Blade Liner.....	1
18		Bolt, Hex.....	4
19	2708	Washer .....	8
20	2514	Nut.....	4
21	B-4706-2	Pin .....	1

NOTE: Items 16A and 17 are BTI/Nordco Partnership Parts

## FIGURE 12-4-2. BALLAST WING Left Front Template Door Articulating S/N 800201 and Above



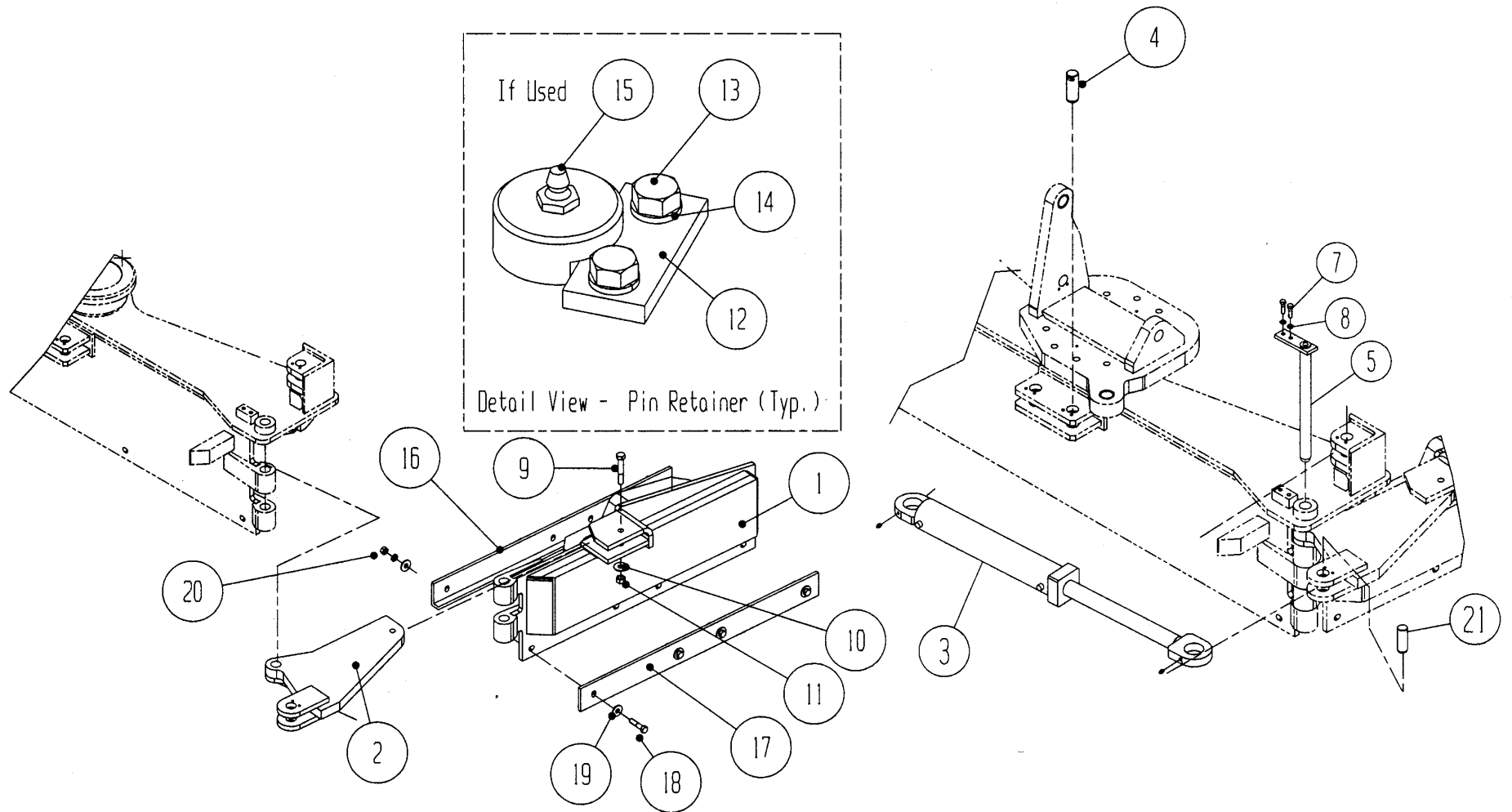
## FIGURE 12-4-2. BALLAST WING Left Front Template Door Articulating S/N 800201 and Above

ITEM NO.	PART NO.	DESCRIPTION	UNITS PER ASSY
1	810478	Template Door, Front.....	1
2	810483	Cylinder Mounting Assembly .....	1
3	810467	Adjustable Blade .....	1
4	810405	Cylinder, Template Door .....	1
5	810491	Pin.....	2
6	810419	Plate, Pin Retainer .....	1
7	B-4706-2	Pin.....	1
8	810447	Plate, Pin Retainer (For Item 7) .....	1
9	910494	Pin Assembly .....	1
11	810399	Pin Assembly .....	1
12	2761	Lockwasher, 5/16".....	4
13	0187	Capscrew, HH 5/16 x 3/4.....	4
14	2764	Lockwasher, 1/2".....	4
15	0563	Capscrew, HH 1/2 x 1-3/4.....	2
16	620011	Capscrew, HH 3/4 x 4-1/2 (Grade 2) .....	1
17	2710	Washer 13/16 x 2 OD .....	1
18	2670	Nut, Stover 3/4".....	1
19	3004	Fitting, Grease .....	2
21	2708	Washer, 11/16 x 1-3/4 OD .....	8
22	0793	Capscrew, HH 5/8 x 2-3/4.....	4
23	2766	Lockwasher, 5/8.....	4
24	2514	Nut, Hex 5/8 .....	4
25A	840190	Blade, Template Door L-Bar (BTI)(Opt.) .....	1
25B	B-25788	Blade, Template Door r (Std.).....	2
26	840191	Blade, Door Liner (BTI).....	1
27	810403	Door In/Out Cylinder .....	1
28	B-4706-2	Pin.....	1

NOTE: Items 25A and 26 are optional BTI/Nordco Partnership Parts



# FIGURE 12-5-1. BALLAST WING Left Rear Template Door Non-Articulating S/N 800201 and Above

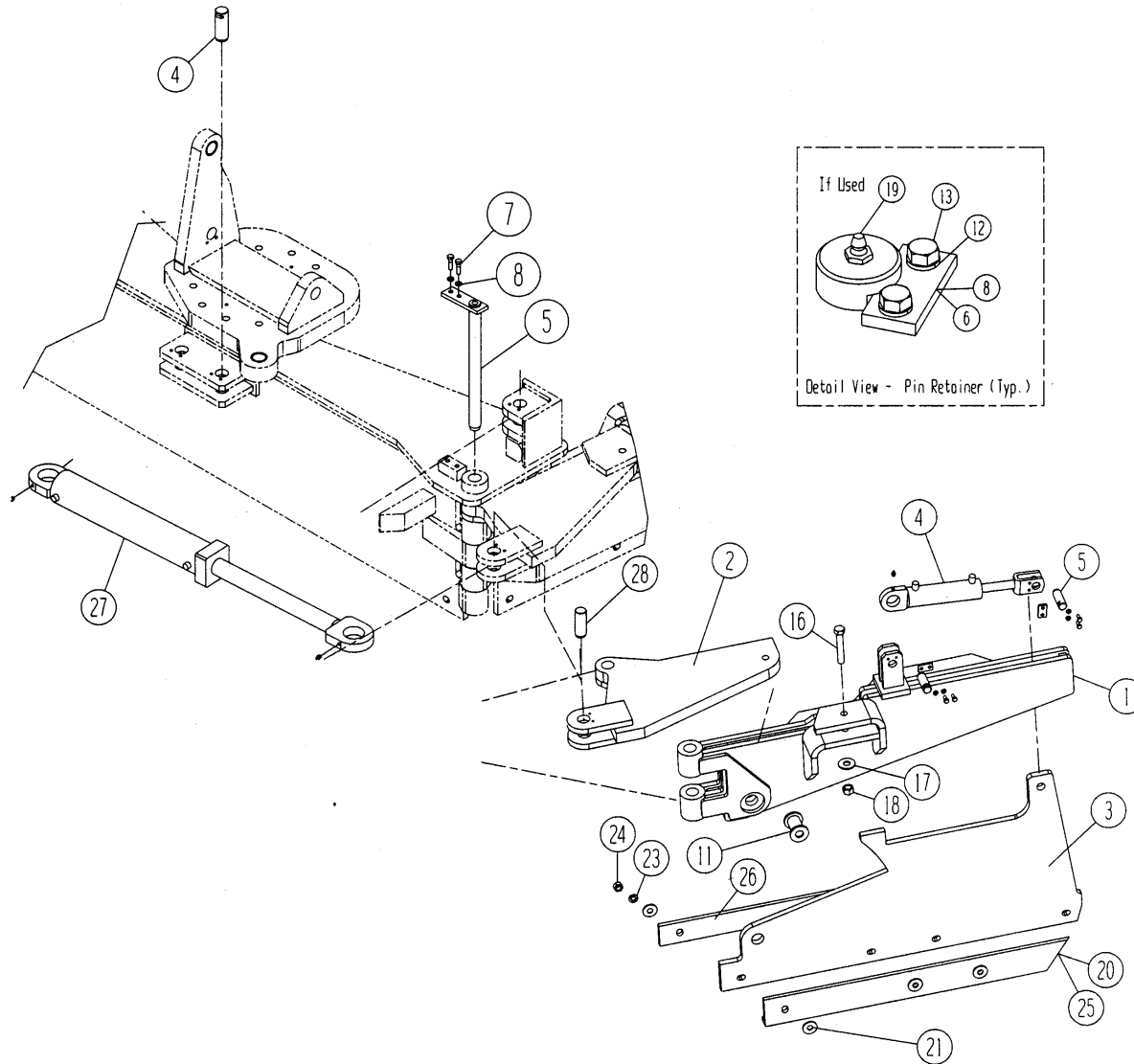


## FIGURE 12-5-1. BALLAST WING Left Rear Template Door Non-Articulating S/N 800201 and Above

ITEM NO.	PART NO.	DESCRIPTION	UNITS PER ASSY
1	810301	Template Door.....	1
2	810457	Cylinder Mounting Plate .....	1
3	810403	Door In/Out Cylinder.....	1
--	SK-7500-98	. . Seal Kit.....	1
4	810492	Cylinder Mounting Pin .....	1
5	810494	Door Mounting Pin.....	1
6	810314	Door Pin Keeper Plate.....	1
7	0563	Bolt, Hex.....	2
8	2764	Lockwasher .....	2
9	620011	Bolt, Hex Head .....	1
10	2710	Washer .....	1
11	2670	Nut, Stover .....	1
12	810447	Keeper Plate.....	2
13	0187	Bolt, Hex.....	4
14	2761	Washer .....	4
15	3004	Grease Fitting.....	3
16A	840190	L-Bar Door Blade.....	1
16B	B-25788	Template Door Blade (Std.).....	2
17	840191	Door Blade Liner.....	1
18		Bolt, Hex.....	4
19	2708	Washer .....	8
20	2514	Nut.....	4
21	B-4706-2	Pin .....	1

NOTE: Items 16A and 17 are BTI/Nordco Partnership Parts

**FIGURE 12-5-2. BALLAST WING  
Left Rear Template Door  
Articulating  
S/N 800201 and Above**

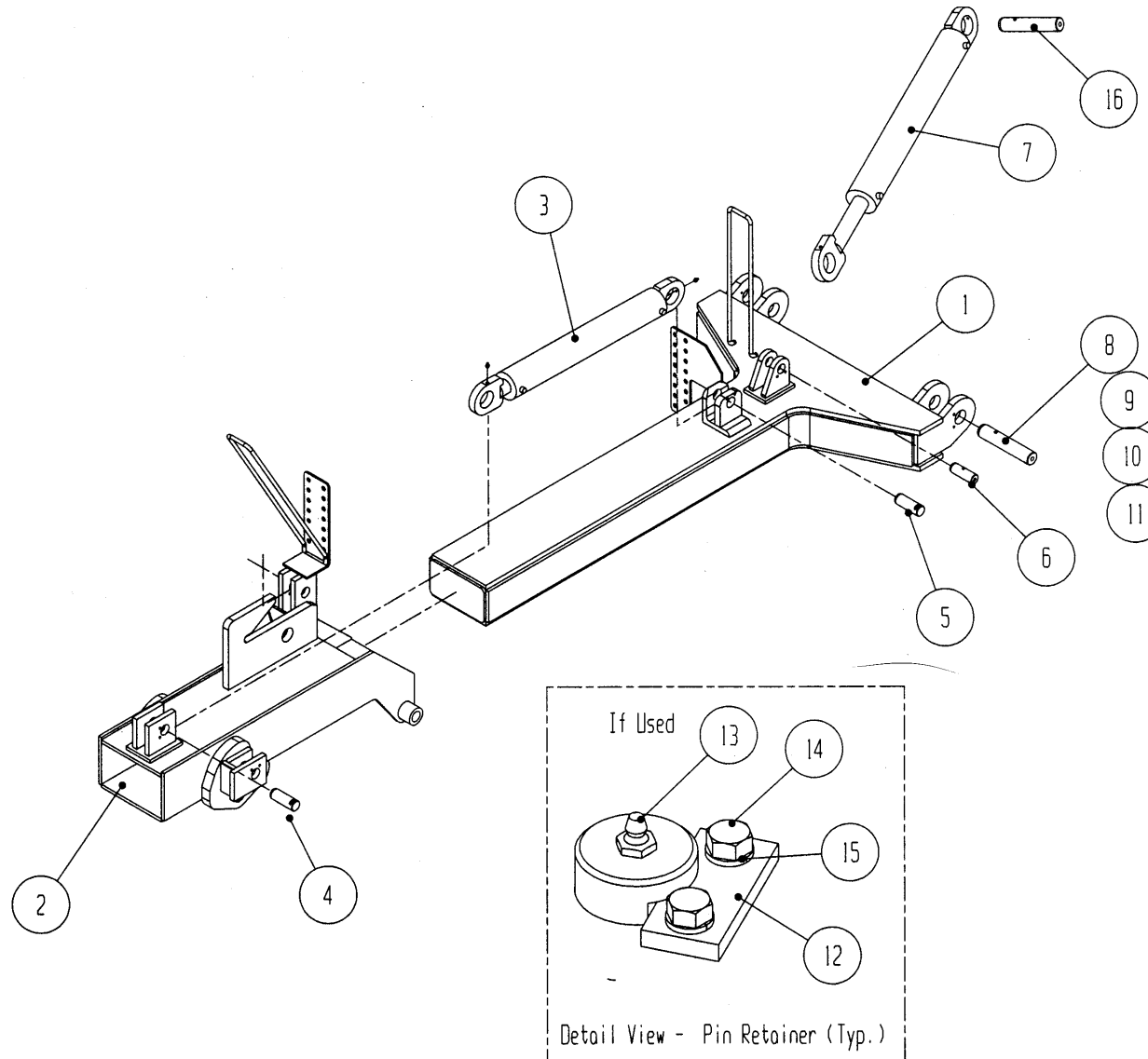


## FIGURE 12-5-2. BALLAST WING Left Rear Template Door Articulating S/N 800201 and Above

ITEM NO.	NO.	DESCRIPTION	ASSY	PART	UNITS PER
1	810455	Template Door, Front.....	1		
2	810457	Cylinder Mounting Assembly .....	1		
3	810467	Adjustable Blade .....	1		
4	810405	Cylinder, Template Door .....	1		
5	810493	Pin.....	2		
6	810419	Plate, Pin Retainer .....	1		
7	B-4706-2	Pin.....	1		
8	810447	Plate, Pin Retainer (For Item 7) .....	1		
9	910494	Pin Assembly .....	1		
10	810314	Plate, Support .....	1		
11	810399	Pin Assembly .....	1		
12	2761	Lockwasher, 5/16".....	4		
13	0187	Capscrew, HH 5/16 x 3/4.....	4		
14	2764	Lockwasher, 1/2".....	4		
15	0563	Capscrew, HH 1/2 x 1-3/4 .....	2		
16	620011	Capscrew, HH 3/4 x 4-1/2 Grade 2.....	1		
17	2710	Washer 13/16 x 2 OD .....	1		
18	2670	Nut, Stover 3/4".....	1		
19	3004	Fitting, Grease .....	2		
20	B-25788	Blade, Template Door (Hard-Ox) .....	2		
21	2708	Washer, 11/16 x 1-3/4 OD .....	8		
22	0793	Capscrew, HH 5/8 x 2-3/4 .....	4		
23	2766	Lockwasher, 5/8.....	4		
24	2514	Nut, Hex 5/8.....	4		
25A	840190	Blade, Template Door L-Bar (Carb.).....	1		
25B	B-25788	Template Door Blade (Std.) .....	2		
26	840191	Blade, Door Liner (Carbide).....	1		
27	810403	Door In/Out Cylinder .....	1		
28	B-4706-2	Pin.....	1		

NOTE: Items 25A and 26 are optional BTI/Nordco Partnership Parts

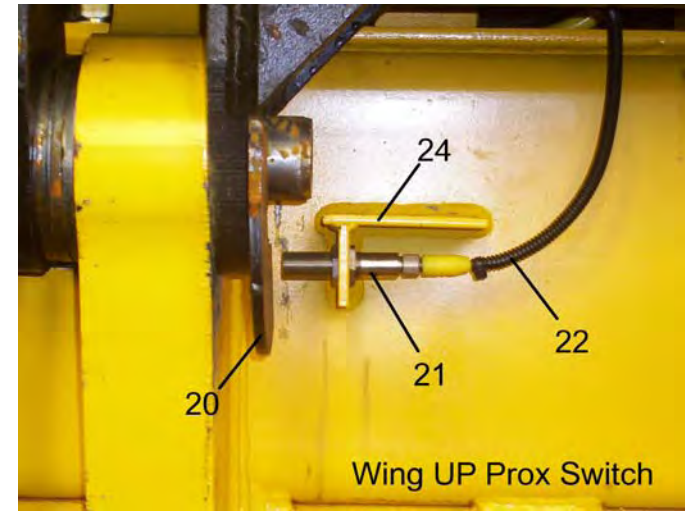
# FIGURE 13-1. RIGHT BALLAST WING Ballast Wing Boom S/N 800201-800226, 800228





**FIGURE 13-1. RIGHT BALLAST WING  
Ballast Wing Boom  
S/N 800201-800226, 800228**

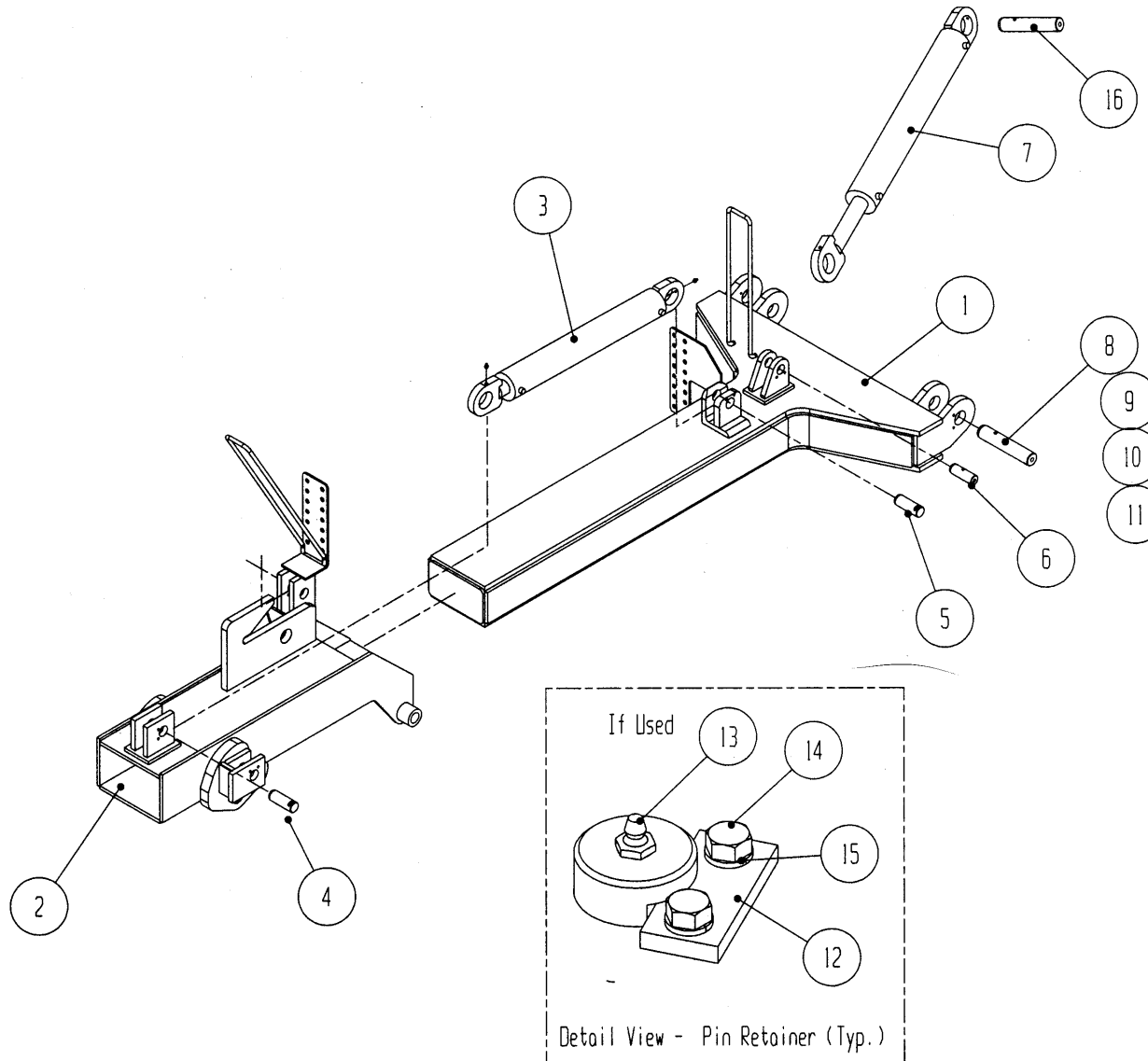
ITEM NO.	PART NO.	DESCRIPTION	UNITS PER ASSY
1	810485	Boom, Right Wing Inner .....	1
2	810410	Boom, Right Wing Outer.....	1
3	810401	Cylinder, Outer Boom In/Out .....	1
--	SK-7500-98	. . Seal Kit.....	1
4	810492	Pin, Cylinder Mounting .....	1
5	810332	Pin, Mounting .....	1
6	810333	Pin, Mounting .....	1
7	7500-116	Wing Lift Cylinder .....	1
8	A-25470	Pin .....	4
9	A-5200-21	Pin Retainer Plate.....	6
10	2761	Lockwasher .....	24
11	0187	Bolt .....	12
12	810447	Plate, Pin Retainer.....	6
13A	3004	Fitting Grease.....	6
13B	3014	Fitting Grease 90° .....	2
14	0187	Capscrew, HH 5/16 x 3/4.....	12
15	2761	Lockwasher, 5/16" .....	12
16	B-4705-4	Pin, Wing Cylinder .....	2



T The following items are located on the frame next to the wings and control the Wing UP functions. When switching from ballast to snow wings, item 20A is replaced by 20B.

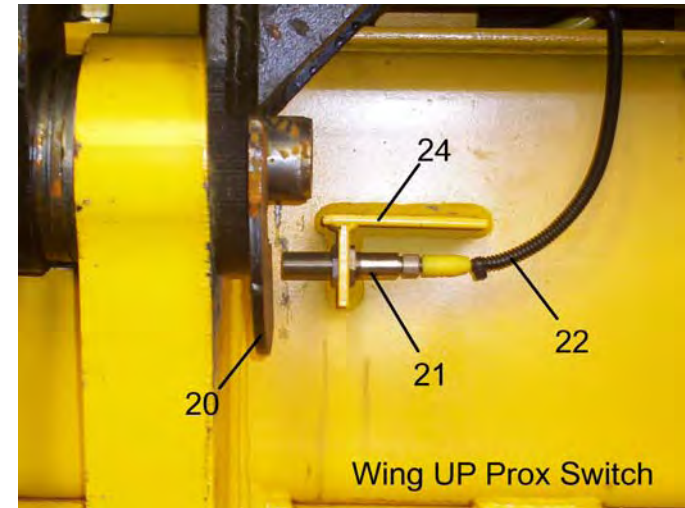
ITEM NO.	PART NO.	DESCRIPTION	UNITS PER ASSY
20A	700085	Flag, Prox Switch (Summer).....	1
20B	802077	Flag, Prox Switch (Winter).....	1
21	5127411	Switch, Prox .....	1
22	22311601-060	Cable, Microfast Prox Switch.....	1
24	802072	Prox Switch Mtg. Bracket .....	1

# FIGURE 13-1A. RIGHT BALLAST WING Ballast Wing Boom S/N 800227, 800229 and Above



**FIGURE 13-1A. RIGHT BALLAST WING  
Ballast Wing Boom  
S/N 800227, 800229 and Above**

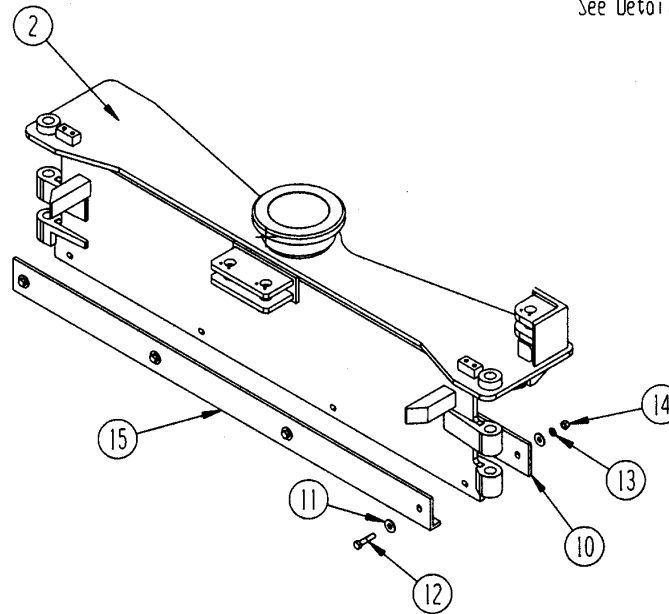
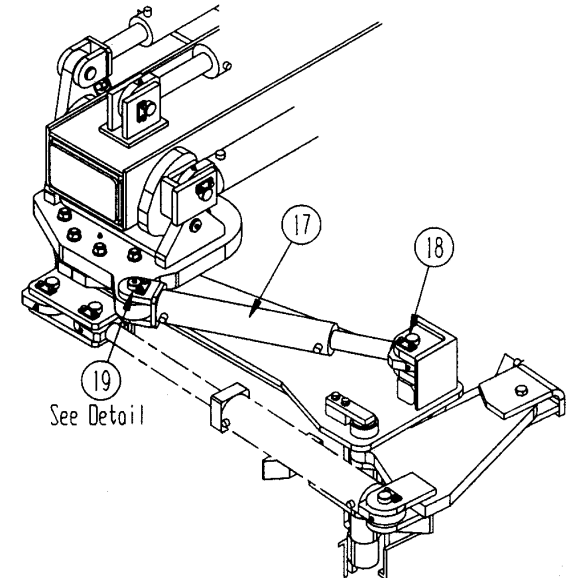
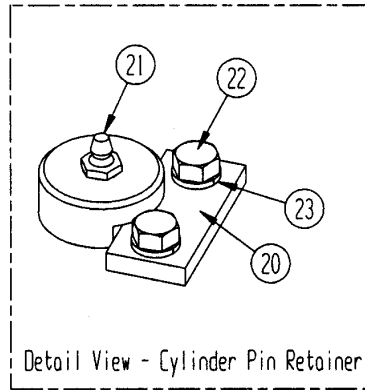
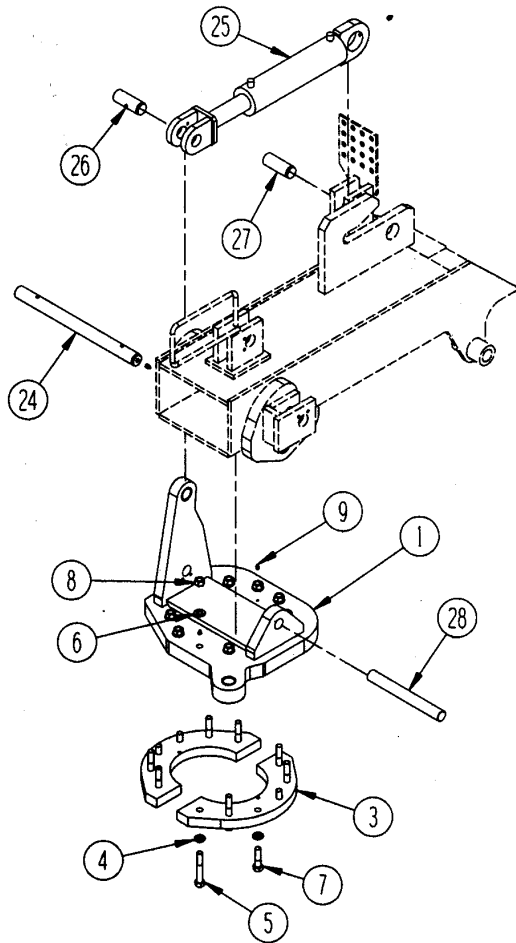
ITEM NO.	PART NO.	DESCRIPTION	UNITS PER ASSY
1	810485	Boom, Right Wing Inner .....	1
2	810410	Boom, Right Wing Outer.....	1
3	810401	Cylinder, Outer Boom In/Out .....	1
--	SK-7500-98	. . Seal Kit.....	1
4	810492	Pin, Cylinder Mounting .....	1
5	810332	Pin, Mounting .....	1
6	700283	Pin, Mounting .....	1
7	750229	Wing Lift Cylinder .....	1
8	A-25470	Pin .....	4
9	A-5200-21	Pin Retainer Plate.....	6
10	2761	Lockwasher .....	24
11	0187	Bolt .....	12
12	810447	Plate, Pin Retainer.....	6
13A	3004	Fitting Grease.....	6
13B	3014	Fitting Grease 90° .....	2
14	0187	Capscrew, HH 5/16 x 3/4.....	12
15	2761	Lockwasher, 5/16" .....	12
16	700182	Pin, Wing Cylinder .....	2



The following items are located on the frame next to the wings and control the Wing UP functions. When switching from ballast to snow wings, item 20A is replaced by 20B.

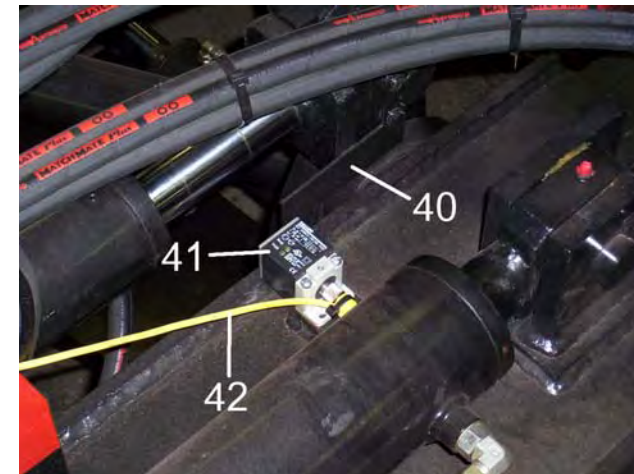
ITEM NO.	PART NO.	DESCRIPTION	UNITS PER ASSY
20A	700085	Flag, Prox Switch (Summer).....	1
20B	802077	Flag, Prox Switch (Winter).....	1
21	5127411	Switch, Prox .....	1
22	22311601-060	Cable, Microfast Prox Switch.....	1
24	802072	Prox Switch Mtg. Bracket .....	1

# FIGURE 13-2. RIGHT BALLAST WING Outer Door S/N 800201 and Above



## FIGURE 13-2. RIGHT BALLAST WING Outer Door S/N 800201 and Above

ITEM NO.	PART NO.	DESCRIPTION	UNITS PER ASSY
1	802444	Top Plate, RH .....	1
2	810425	Outer Door Weldment, RH .....	1
3	810489	Retainer, Top Plate.....	2
4	2769	Lockwasher, 13/16" .....	4
5	0895	Capscrew, HH 3/4 x 2-3/4 .....	4
6	2755-3	Washer, Flat 3/4" .....	16
7	0919	Capscrew, HH 3/4 x 4-1/2 .....	8
8	2670	Nut, Stover 3/4" .....	8
9	3014	Fitting Grease .....	2
10	840182	Blade, Outer Door Liner (Carbide).....	1
11	2708	Washer, 11/16 x 1-3/4 OD.....	8
12	0793	Capscrew, HH 5/8 x 2-3/4 .....	4
13	2766	Lockwasher, 5/8 .....	4
14	2514	Nut, Hex 5/8.....	4
15A	840181	Blade, Outer Door L-Bar (Carbide).....	1
15B	B-25787	Blade, Outer Door (Std).....	2
17	810406	Cylinder, Outer Door.....	1
--	SK-7500-64	.. Seal Kit .....	1
18	810337	Pin, Cylinder Mounting .....	1
19	810436	Pin, Cylinder Mounting .....	1
20	810447	Plate, Pin Retainer.....	2
21	3004	Fitting, Grease .....	1
22	0187	Capscrew, HH 5/16 x 3/4.....	4
23	2761	Lockwasher, 5/16" .....	4
24	810334	Pin .....	1
25	810404	Outer Door Tilt Cylinder .....	1
--	SK-7500-98	.. Seal Kit .....	1
26	810692	Pin .....	1
27	810492	Pin .....	1
28	700076	Pipe .....	1



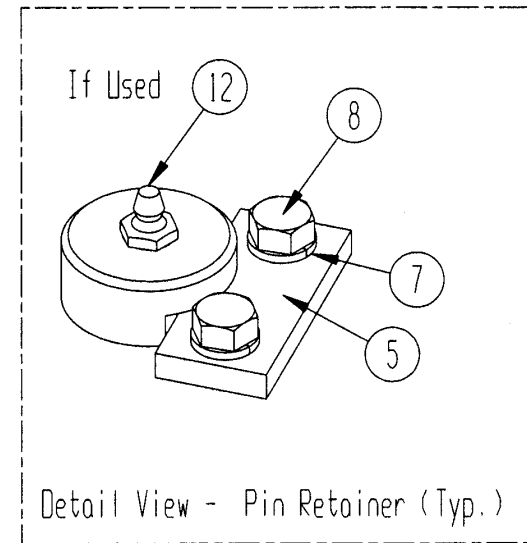
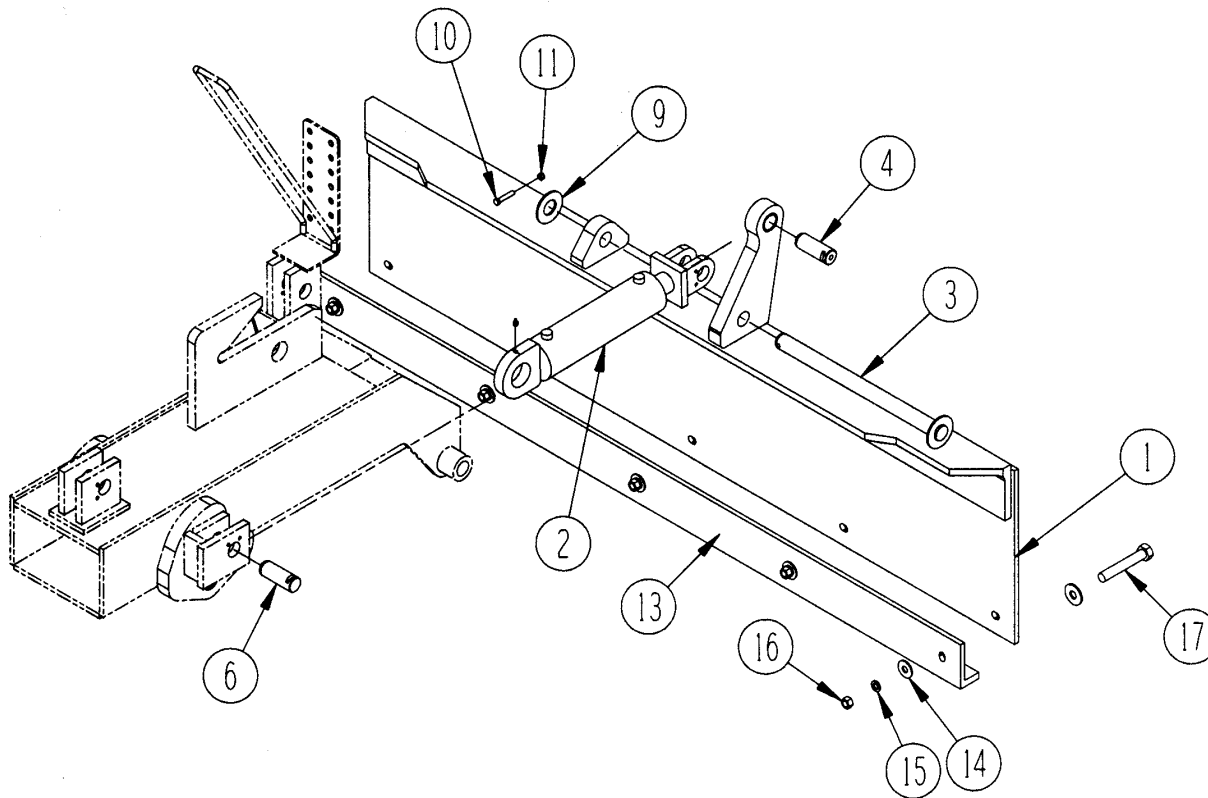
The following items are located on the outer door assembly and control the Door Tilt functions. To switch out to snow wings, the prox cable should be removed from the junction box only (hoses and cables remain attached to outer door components)

ITEM NO.	PART NO.	DESCRIPTION	UNITS PER ASSY
40	802 076	Flag, Prox Switch .....	1
41	5127 415	Switch, Prox (Stubby).....	1
42	22311601-184	Cable, Microfast Prox Switch .....	1

NOTE: Items 10 and 15A are BTI/Nordco Partnership Parts



# FIGURE 13-3. RIGHT BALLAST WING Inner Door S/N 800201 and Above

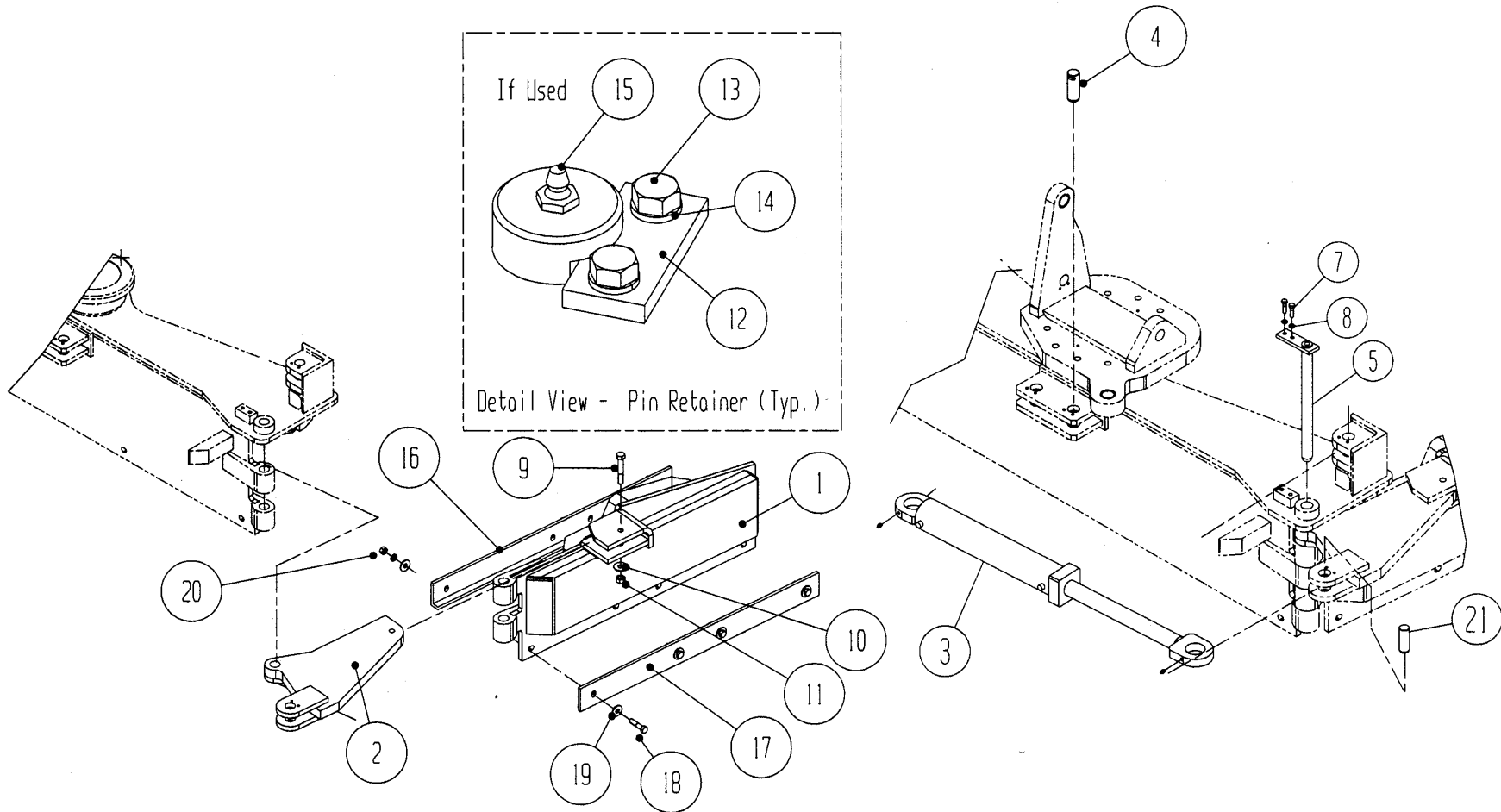


## FIGURE 13-3. RIGHT BALLAST WING Inner Door S/N 800201 and Above

ITEM NO.	PART NO.	DESCRIPTION	UNITS PER ASSY
1	810416	Inner Door, RH .....	1
2	810400	Cylinder, Inner Door .....	1
3	810336	Pin .....	1
4	810491	Pin .....	1
5	810447	Plate, Pin Retainer.....	2
6	410337	Pin .....	1
7	2761	Lockwasher, 5/16" .....	4
8	0187	Capscrew, HH 5/16 x 3/4.....	4
9	2721	Washer, 1-9/16 x 3-1/4 OD.....	1
10	0339	Capscrew, HH 3/8 x 2.....	1
11	2660	Nut, Stover 3/8" .....	1
12	3004	Fitting, Grease.....	2
13A	840202	Blade, Inner Door (Carbide) .....	2
13B	B-40504	Blade, Inner Door (Std).....	2
14	2708	Washer, 11/16 x 1-3/4 OD.....	8
15	2766	Lockwasher, 5/8 .....	4
16	2514	Nut, Hex 5/8 .....	4
17	0793	Capscrew, HH 5/8 x 2-3/4 .....	4

NOTE: Item 13A is a BTI/Nordco Partnership Part

# FIGURE 13-4-1. RIGHT BALLAST WING Right Front Template Door Non-Articulating S/N 800201 and Above

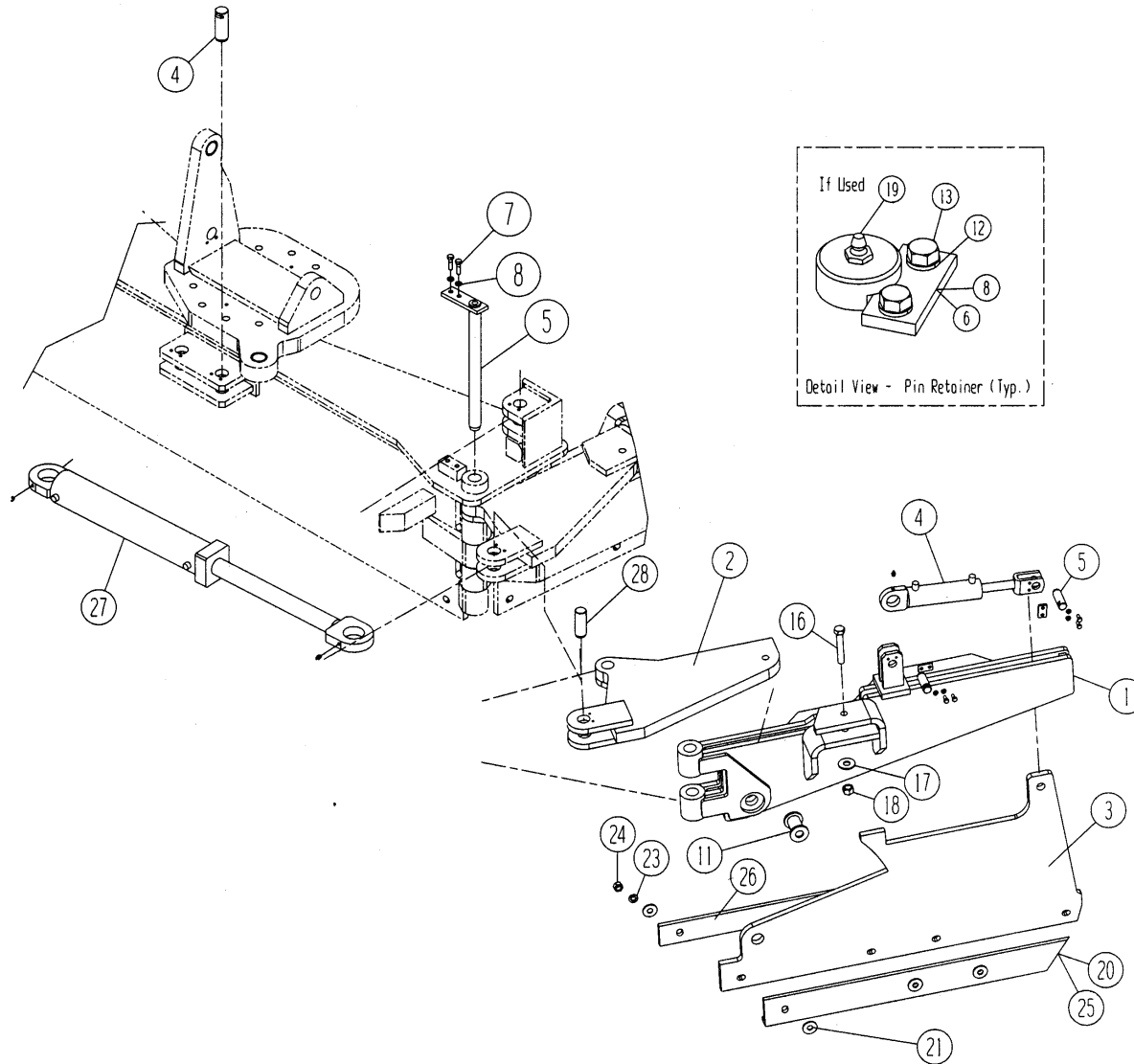


## FIGURE 13-4-1. RIGHT BALLAST WING Right Front Template Door Non-Articulating S/N 800201 and Above

ITEM NO.	PART NO.	DESCRIPTION	UNITS PER ASSY
1	810301	Template Door.....	1
2	810457	Cylinder Mounting Plate .....	1
3	810403	Door In/Out Cylinder.....	1
--	SK-7500-98	.. Seal Kit.....	1
4	810492	Cylinder Mounting Pin .....	1
5	810345	Door Mounting Pin.....	1
7	0563	Bolt, Hex.....	2
8	2764	Lockwasher .....	2
9	620011	Bolt, Hex Head (Grade 2) .....	1
10	2710	Washer .....	1
11	2670	Nut, Stover .....	1
12	810447	Keeper Plate.....	2
13	0187	Bolt, Hex.....	4
14	2761	Washer .....	4
15	3004	Grease Fitting.....	3
16A	840190	L-Bar Door Blade (option).....	1
16B	B-25788	Template Door Blade (Std.).....	2
17	840191	Door Blade Liner.....	1
18		Bolt, Hex.....	4
19	2708	Washer .....	8
20	2514	Nut.....	4
21	B-4706-2	Pin .....	1

NOTE: Items 16A and 17 are BTI/Nordco Partnership Parts

# FIGURE 13-4-2. BALLAST WING Right Front Template Door Articulating S/N 800201 and Above





## FIGURE 13-4-2. BALLAST WING Right Front Template Door Articulating S/N 800201 and Above

ITEM NO.	NO.	DESCRIPTION	ASSY	PART	UNITS PER
1	810478	Template Door, Front.....	1		
2	810483	Cylinder Mounting Assembly .....	1		
3	810467	Adjustable Blade .....	1		
4	810405	Cylinder, Template Door .....	1		
5	810345	Pin.....	2		
6	810419	Plate, Pin Retainer .....	1		
7	B-4706-2	Pin.....	1		
8	810447	Plate, Pin Retainer (For Item 7) .....	1		
9	910494	Pin Assembly .....	1		
11	810399	Pin Assembly .....	1		
12	2761	Lockwasher, 5/16".....	4		
13	0187	Capscrew, HH 5/16 x 3/4.....	4		
14	2764	Lockwasher, 1/2".....	4		
15	0563	Capscrew, HH 1/2 x 1-3/4 .....	2		
16	620011	Capscrew, HH 3/4 x 4-1/2 Grade 2.....	1		
17	2710	Washer 13/16 x 2 OD .....	1		
18	2670	Nut, Stover 3/4".....	1		
19	3004	Fitting, Grease .....	2		
20	B-25788	Blade, Template Door (Hard-Ox) .....	2		
21	2708	Washer, 11/16 x 1-3/4 OD .....	8		
22	0793	Capscrew, HH 5/8 x 2-3/4 .....	4		
23	2766	Lockwasher, 5/8.....	4		
24	2514	Nut, Hex 5/8 .....	4		
25A	840190	Blade, Template Door L-Bar (Carb.).....	1		
25B	B-25788	Blade, Template Door r (Std.).....	2		
26	840191	Blade, Door Liner (Carbide).....	1		

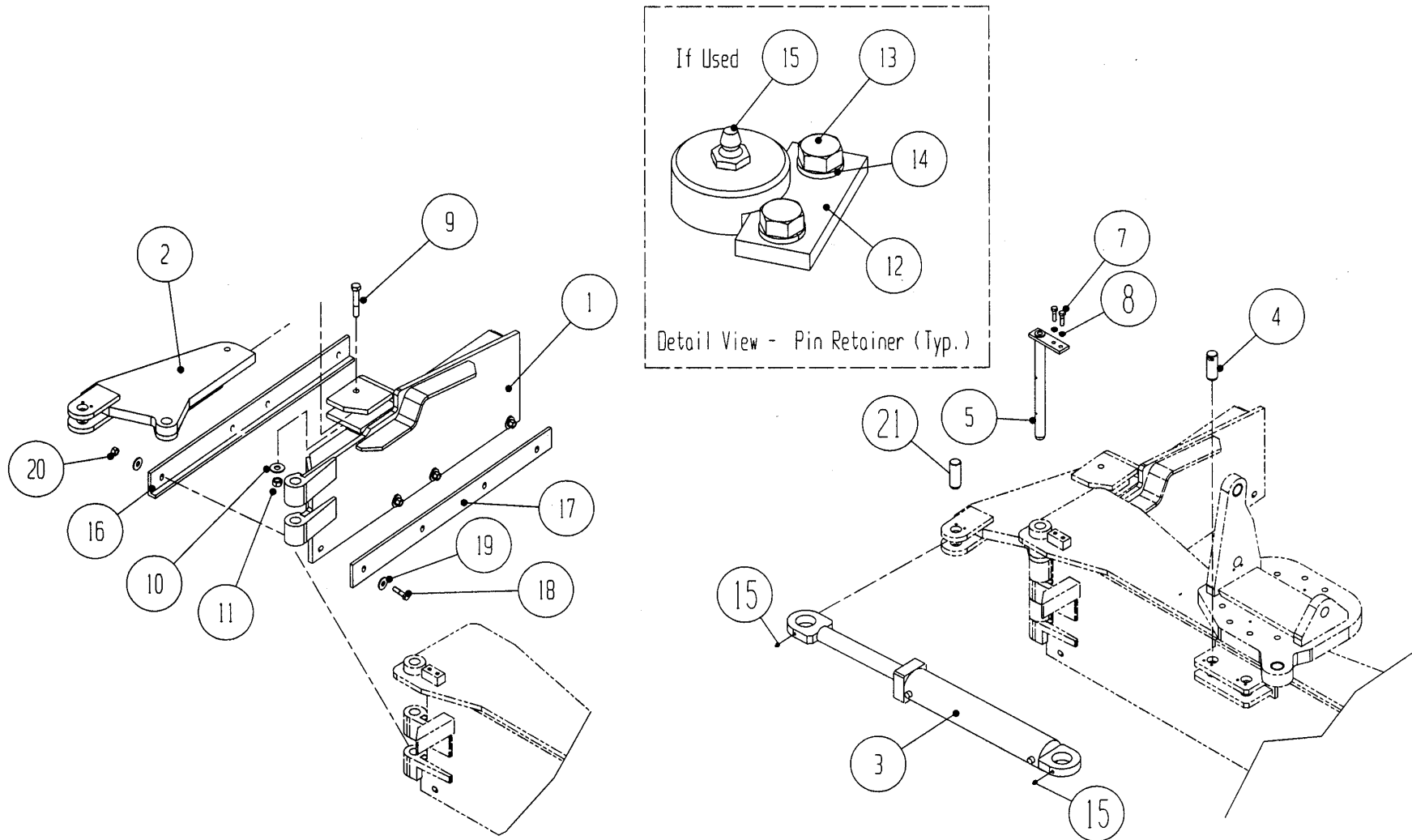
NOTE: Items 25A and 26 are optional BTI/Nordco Partnership Parts

# FIGURE 13-5-1. RIGHT BALLAST WING

## Right Rear Template Door

### Non-Articulating

### S/N 800201 and Above

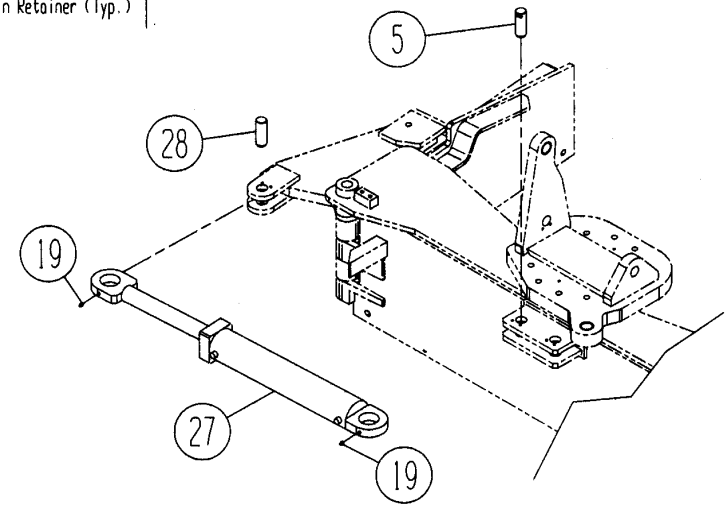
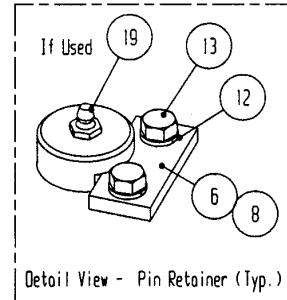
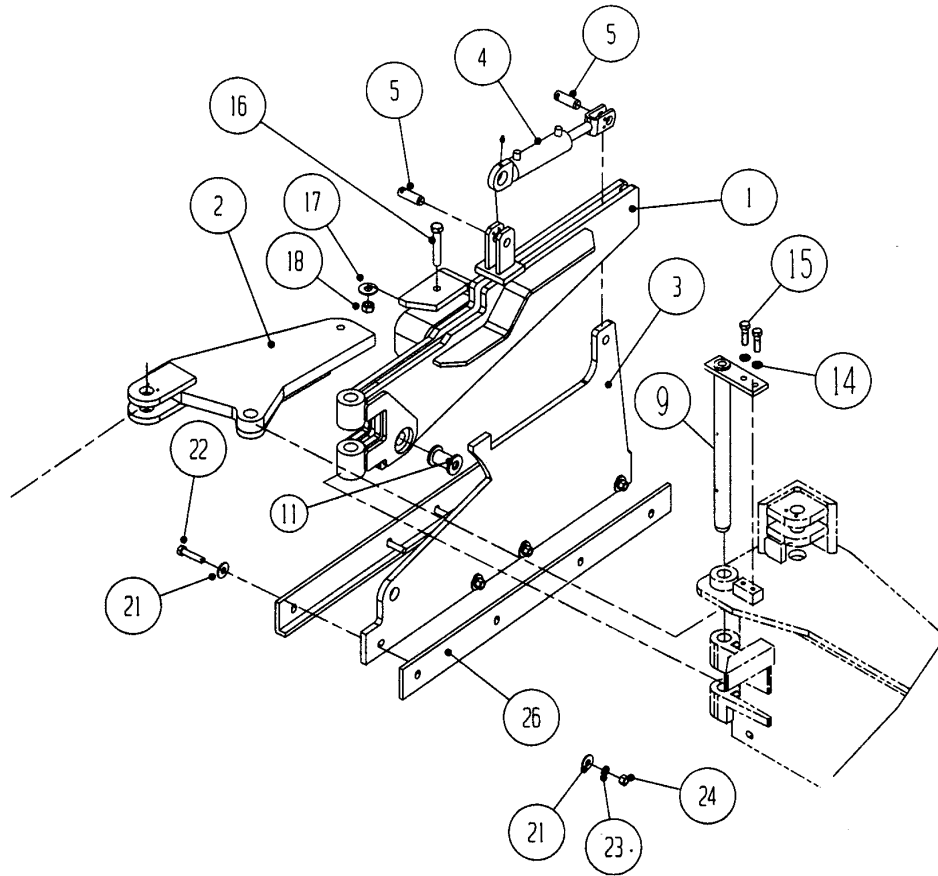


## FIGURE 13-5-1. RIGHT BALLAST WING Right Rear Template Door Non-Articulating S/N 800201 and Above

ITEM NO.	PART NO.	DESCRIPTION	UNITS PER ASSY
1	810275	Template Door.....	1
2	810483	Cylinder Mounting Plate .....	1
3	810403	Door In/Out Cylinder.....	1
--	SK-7500-98	. . Seal Kit.....	1
4	810492	Cylinder Mounting Pin .....	1
5	810345	Door Mounting Pin.....	1
7	0563	Bolt, Hex.....	2
8	2764	Lockwasher .....	2
9	620011	Bolt, Hex Head .....	1
10	2710	Washer .....	1
11	2670	Nut, Stover .....	1
12	810447	Keeper Plate.....	2
13	0187	Bolt, Hex.....	4
14	2761	Washer .....	4
15	3004	Grease Fitting.....	3
16A	840190	L-Bar Door Blade.....	1
16B	B-25788	Template Door Blade (Std.).....	2
17	840191	Door Blade Liner.....	1
18		Bolt, Hex.....	4
19	2708	Washer .....	8
20	2514	Nut.....	4
21	B-4706-2	Pin .....	1

ⓘ NOTE: Items 16A and 17 are BTI/Nordco Partnership Parts

**FIGURE 13-5-2. BALLAST WING  
Right Rear Template Door  
Articulating  
S/N 800201 and Above**





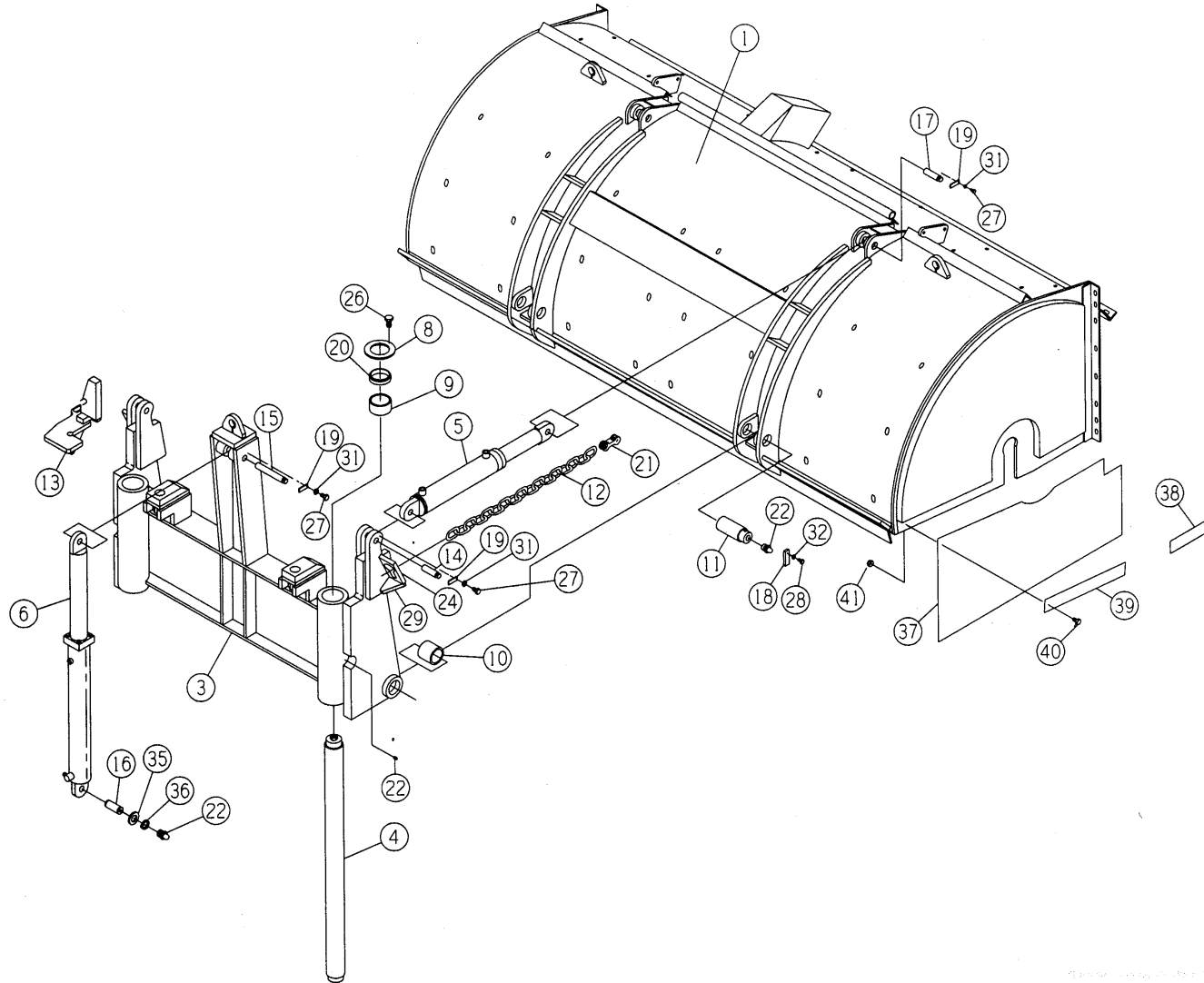
## FIGURE 13-5-2. BALLAST WING Right Rear Template Door Articulating S/N 800201 and Above

ITEM NO.	NO.	DESCRIPTION	ASSY	PART	UNITS PER
1	810455	Template Door, Front.....	1		
2	810457	Cylinder Mounting Assembly .....	1		
3	810467	Adjustable Blade .....	1		
4	810405	Cylinder, Template Door .....	1		
5	810493	Pin.....	2		
6	810419	Plate, Pin Retainer .....	1		
7	B-4706-2	Pin.....	1		
8	810447	Plate, Pin Retainer (For Item 7) .....	1		
9	810345	Pin Assembly .....	1		
11	810399	Pin Assembly .....	1		
12	2761	Lockwasher, 5/16".....	4		
13	0187	Capscrew, HH 5/16 x 3/4.....	4		
14	2764	Lockwasher, 1/2".....	4		
15	0563	Capscrew, HH 1/2 x 1-3/4 .....	2		
16	620011	Capscrew, HH 3/4 x 4-1/2 Grade 2.....	1		
17	2710	Washer 13/16 x 2 OD .....	1		
18	2670	Nut, Stover 3/4".....	1		
19	3004	Fitting, Grease .....	2		
20	B-25788	Blade, Template Door (Hard-Ox) .....	2		
21	2708	Washer, 11/16 x 1-3/4 OD .....	8		
22	0793	Capscrew, HH 5/8 x 2-3/4 .....	4		
23	2766	Lockwasher, 5/8.....	4		
24	2514	Nut, Hex 5/8 .....	4		
25A	840190	Blade, Template Door L-Bar (BTI)(Opt.) ..	1		
25B	B-25788	Blade, Template Door r (Std.) .....	2		
26	840191	Blade, Door Liner (BTI) .....	1		
27	810403	Door In/Out Cylinder .....	1		
28	B-4706-2	Pin.....	1		

NOTE: Items 25A and 26 are optional BTI/Nordco Partnership Parts



**FIGURE 15-1. BROOM  
BROOM CARRIER  
Chain Drive  
S/N 800201 and Above**



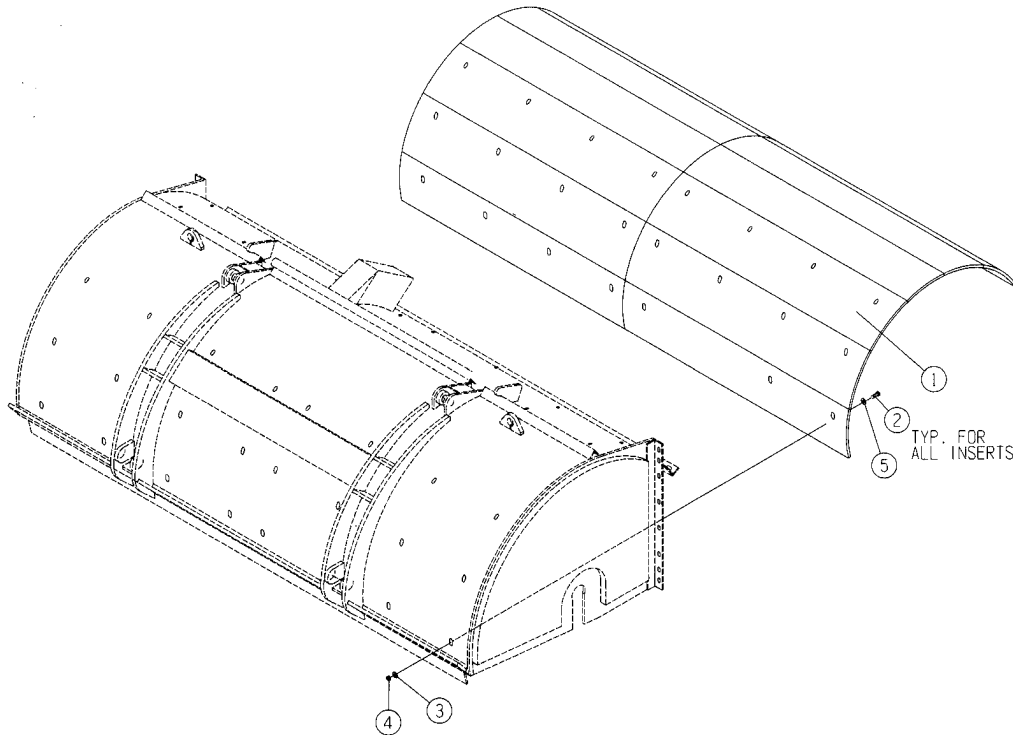


# FIGURE 15-1. BROOM BROOM CARRIER Chain Drive S/N 800201 and Above

ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1	800048	Broom Assembly .....	1
3	802185	Broom Carrier Assembly .....	1
4	B-33016	Guide Rod .....	2
5	7500-64	Cylinder .....	2
6	7500-109	Cylinder .....	1
8	A-27938	Retaining Ring .....	4
9	A-25083	Bronze Bushing .....	4
10	A-25473	Bronze Bushing .....	2
11	A-25470	Pin .....	2
12	4523-26	Chain .....	2
13	C-32390	Manual Safety Lock .....	1
14	B-4703-2	Pin .....	2
15	700106	Pin .....	1
16	B-4716-2	Pin .....	1
17	B-4703-3	Pin .....	2
18	A-5200-31	Lock Plate .....	2
19	A-5200-21	Lock Plate .....	5
20	3900-36	Wiper Ring .....	4
21	4543	Clevis .....	2
22	3004	Grease Fitting .....	10
23	2907	Hardened Dowel Pin .....	4
24	A-27134	Chain Hook .....	2
26	0181	Hex Head Bolt .....	12
27	0187	Hex Head Bolt .....	10
28	0323	Hex Head Bolt .....	4
29	A-27135	Gusset .....	2
30	0889	Hex Head Bolt .....	16
31	2761	Lock Washer .....	10
32	2762	Lock Washer .....	4
33	2768	Lock Washer .....	16

ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
35	4730-5	Thrust Washer .....	2
36	7630	Retaining Ring .....	2
37	B-33793	Rubber Skirt .....	2
38	B-33794	Rubber Retainer .....	2
39	B-33795	Rubber Retainer .....	2
40	0331	Hex Head Bolt .....	14
41	2660	Stover Nut .....	14
42	3505	Hex Socket Head Plug .....	2
43*	183	Bolt, Hex .....	12
44*	B-40888	Skirt, Rubber .....	1
45*	0561	Bolt, Hex Head .....	8
46*	2755-1	Washer .....	8
47*	2664	Nut, Stover .....	8
48*	A-40889	Retainer, Rubber .....	1
49*	B-25081	Cover, Guide Rod .....	1
50*	810819	Broom Rotation Lock Assembly .....	1

**FIGURE 15-1-1. BROOM  
Broom Liner (Optional)  
S/N 800201 and Above**



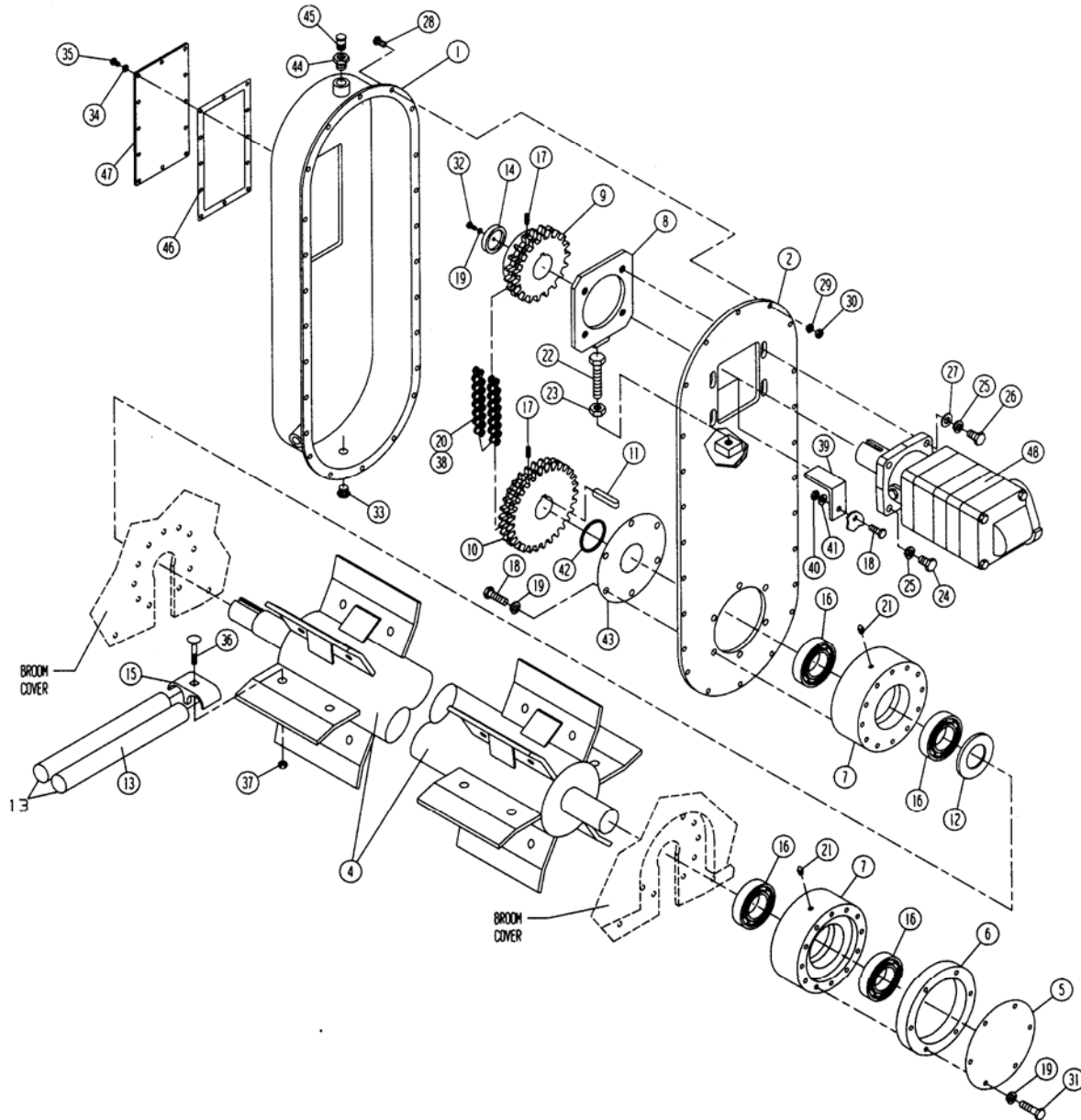
ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1A	620064	Broom Insert (Rubber).....	12
1B	620036	Broom Insert (Poly) .....	12
2	0561	Hex Head Bolt .....	48
3	M-092	Fender Washer .....	48
4	2664	Stover Nut .....	48
5	2706	Flat Washer.....	48

Optional Rubber Side Liners, not shown:

10	620065	RH Rear Side Liner .....	1
11	620066	LH Rear Side Liner.....	1
12	620067	RH Front Side Liner.....	1
13	620068	LH Front Side Liner .....	1



**FIGURE 15-1-2. BROOM  
SHAFT & REEL  
Chain Drive  
S/N 800201 and Above**





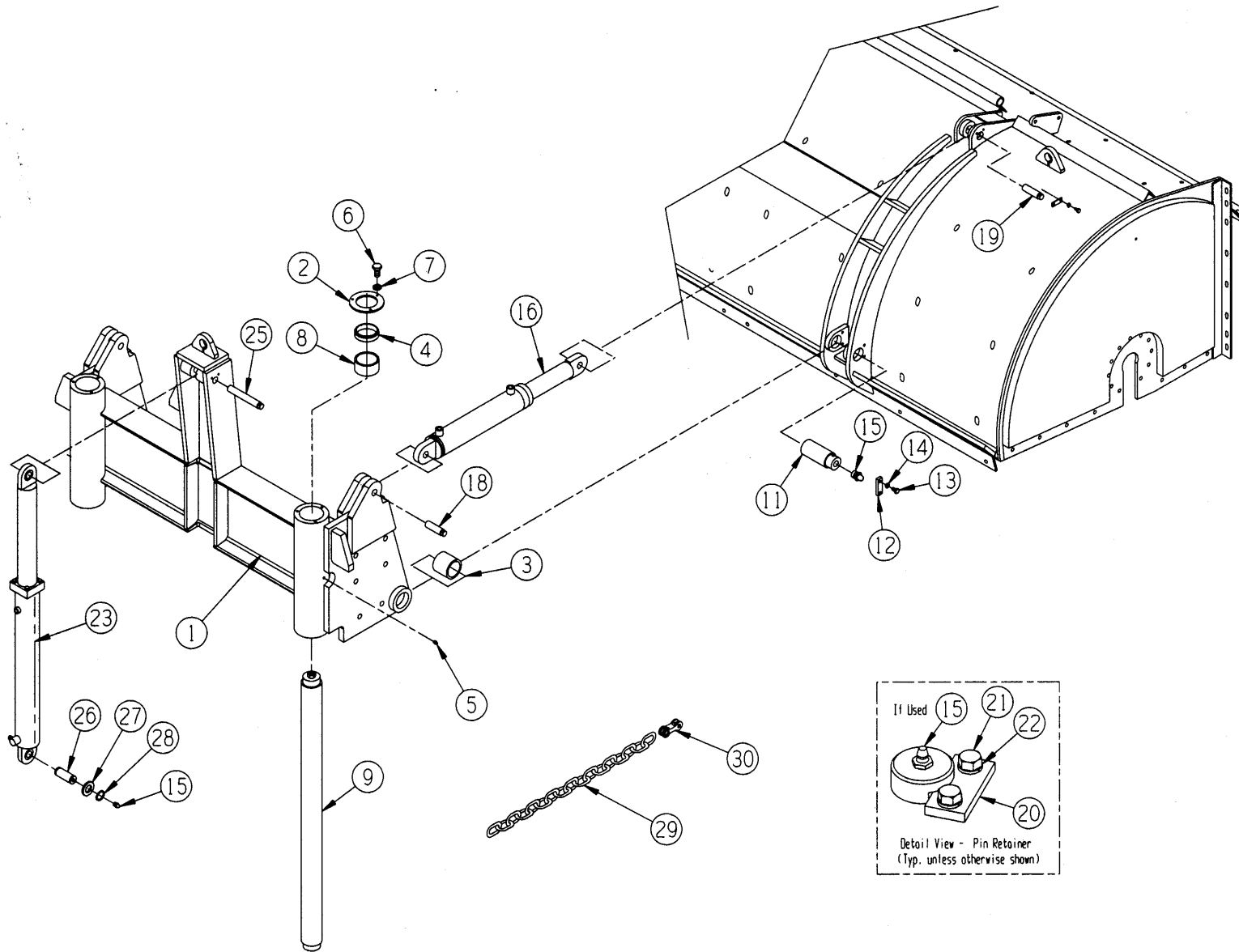


## FIGURE 15-1-2. BROOM SHAFT & REEL Chain Drive S/N 800201 and Above

ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE	ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1	E-33813	CHAIN COVER.....	1	31	0567	HEX HEAD SCREW .....	6
2	800280	BACK PLATE .....	1	32	0556	HEX HEAD SCREW .....	1
3	D-33808	BROOM COVER ASSEMBLY.....	1	33	3636	PLUG .....	2
4	D-27931	BROOM SHAFT .....	1	34	2761	LOCKWASHER.....	12
5	A-25161	COVER.....	1	35	0183	HEX HEAD BOLT .....	12
6	B-25162	SPACER.....	1	36	2405	CARRIAGE BOLT .....	114
7	B-27933	BEARING HOUSING.....	2	37	2668	STOVER NUT .....	114
8	800282	MOTOR BASE.....	1	38	A-25173	LINKS .....	1
9	B-25165	SPROCKET .....	1	39	A-25176	ANGLE .....	1
10	B-25166	SPROCKET .....	1	40	2664	STOVER NUT .....	1
11	A-25167	KEY .....	1	41	2737	FLAT WASHER.....	1
12	A-27934	DUST CAP .....	2	42	3900-59	V-RING .....	2
13	B-27738	ELEMENT, Solid Sweeper .....	228	43	A-25688	COVER .....	1
14	A-25178	END CAP.....	1	44	7124	BREATHER.....	1
15	<del>C-27736</del>	CLAMP .....(Now 24574204).....	114	45	3492	ADAPTER .....	1
16	4200-42	BEARING .....	2	46	800284	GASKET.....	1
17	1933	SOCKET SET SCREW .....	2	47	B-27360	COVER .....	1
18	0559	HEX HEAD SCREW.....	29	48	F-233	MOTOR.....	1
19	2764	LOCKWASHER .....	35				
20	A-33814	CHAIN, Double Roller.....	1				
21	3004	GREASE NIPPLE.....	2				
22	0915	HEX HEAD BOLT .....	1				
23	2516	HEX HEAD NUT.....	1				
24	0773	HEX HEAD BOLT.....	4				
25	2766	LOCKWASHER .....	8				
26	0769	HEX HEAD SCREW.....	4				
27	2755-2	FLAT WASHER.....	4				
28	0327	HEX HEAD SCREW.....	10				
29	2762	LOCKWASHER .....	10				
30	2506	HEX HEAD BOLT.....	10				

# FIGURE 15-2. BROOM BROOM CARRIER

Direct Drive (Option up to S/N 810235, Std 810236 & Above)

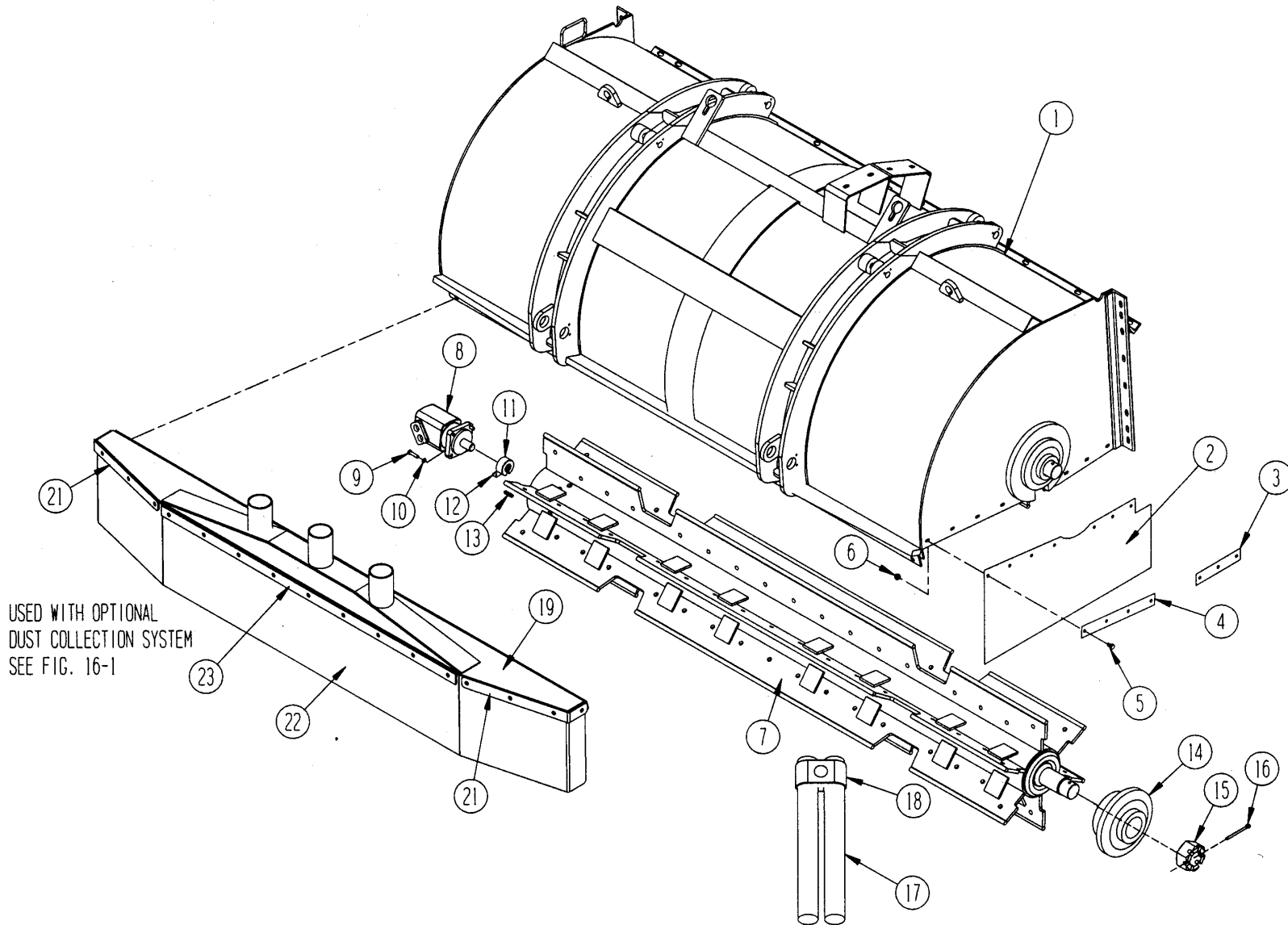


## FIGURE 15-2. BROOM BROOM CARRIER

Direct Drive (Option up to S/N 810235, Std 810236 & Above)

ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1	700027	. Broom Carrier .....	1
2	A-27938	. Retaining Ring .....	4
3	A-25473	. Bronze Bushing .....	2
4	3900-36	. Wiper Ring .....	4
5	3004	. Grease Fitting .....	2
6	0181	. Hex Head Bolt .....	6
7	2761	. Lock Washer .....	6
8	A-25083	Bronze Bushing .....	4
9	B-33016	Guide Rod .....	2
10	B-25081	Cover, Guide Rod .....	4
11	A-25470	Pin .....	2
12	A-5200-31	Lock Plate .....	2
13	0323	Hex Head Bolt .....	4
14	2762	Lock Washer .....	4
15	3004	Grease Fitting .....	2
16	7500-64	Cylinder .....	2
17	SK-7500-64	. Seal Kit .....	1
18	B-4703-2	Pin .....	2
19	B-4703-3	Pin .....	2
20	A-5200-21	Lock Plate .....	5
21	0187	Hex Head Bolt .....	8
22	2761	Lock Washer .....	8
23	7500-109	Cylinder .....	1
24	SK-7500-64	. Seal Kit .....	1
25	700103	Pin .....	1
26	B-4716-2	Pin, Lock .....	1
27	4730-5	Thrust Washer .....	2
28	7630	Retaining Ring .....	2
29	4523-26	Chain .....	2
30	4543	Clevis Link, Twin .....	2

**FIGURE 15-2-1. BROOM  
HOUSING & REEL  
Direct Drive (Option)**



## FIGURE 15-2-1. BROOM HOUSING & REEL Direct Drive (Option)

ITEM NO.	NO.	DESCRIPTION	MACHINE
--	460028	Broom Assembly .....	1
1	700034	. Broom Cover .....	1
2	680028	. Rubber Skirt.....	2
3	A-33794	. Rubber Retainer .....	2
4	B-33795	. Rubber Retainer .....	2
5	0331	. Hex Head Bolt .....	14
6	2660	. Stover Nut.....	14
7	700033	Direct Drive Shaft .....	1
8	500028	Direct Drive Hydraulic Motor.....	1
9		Hex Bolt .....	4
10		Lockwasher .....	4
11	700048	Splined Bushing.....	1
12	700049	Keeper Plate.....	1
13	620034	Direct Drive Key.....	1
14	620029	Flanged Spherical Roller Bearing.....	1
15	700066	Castle Nut.....	1
16	2850	Cotter Pin.....	1
17A	B-40792	Broom Element (Derby).....	204
17B	B-40791	Broom Element (U-Nova) .....	204
17C	B-27738	Broom Element (Polyco).....	204
18A	C-27736	Element Clamp (U-Nova and Polyco).....	102
18B	680000	Element Clamp (Derby) .....	102
19⓪	700086	Broom Extension (for Dust Collector) .....	1
21⓪	700052	Side Skirt Retainer.....	2
22⓪	680011	Rear Skirt.....	1
23⓪	700053	Rear Skirt Retainer .....	1
24*	700064	Broom Shaft cOVER.....	1

ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
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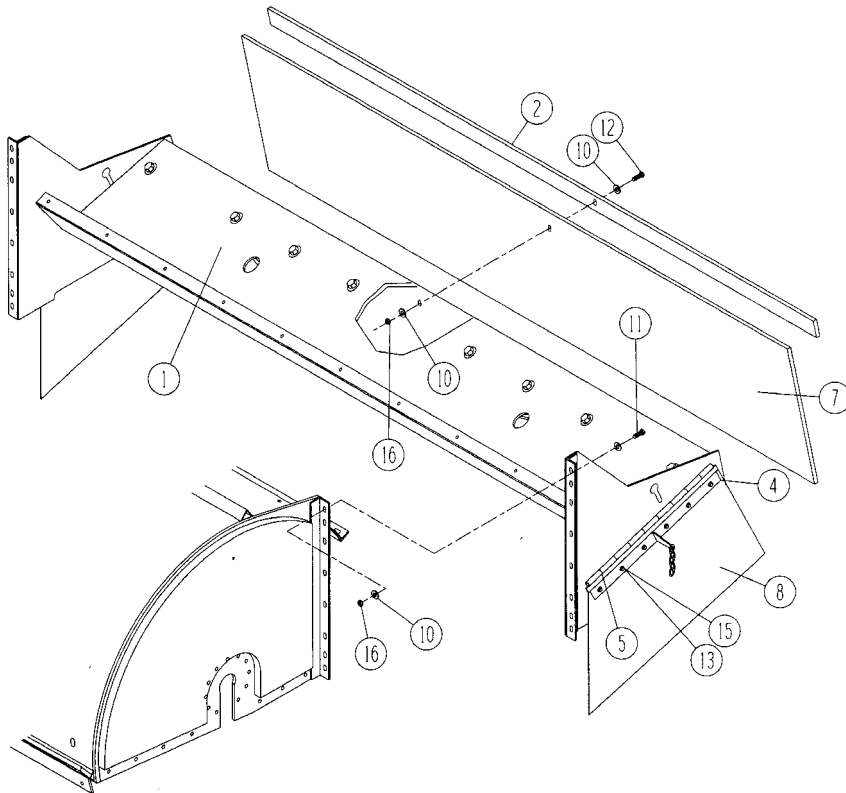
Note: If you do not have a dust collector, Items 19-23 are replaced  
By the following:

A-40889	Retainer Rubber .....	1
B-40888	Rubber Skirt .....	1
0559	Bolt .....	8
2664	Stover Nut .....	8

⓪ See Note to Right



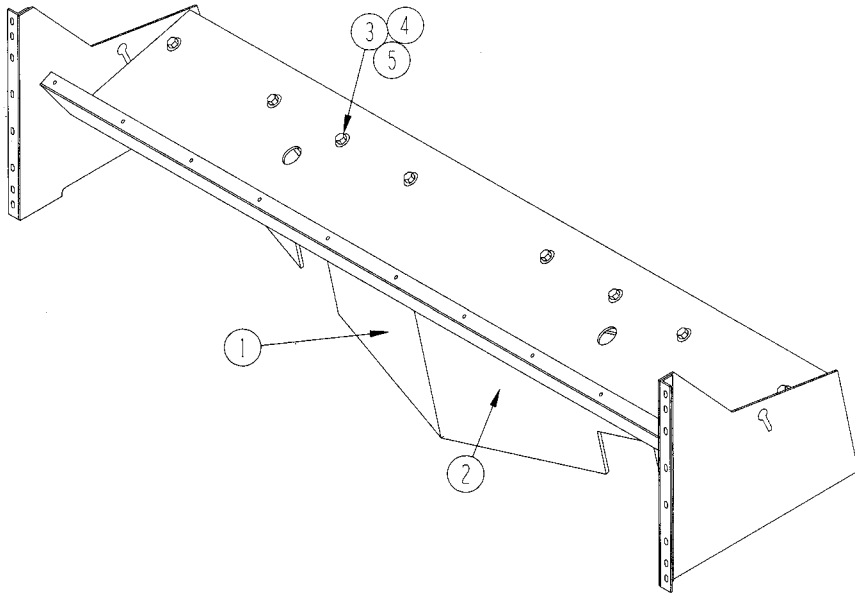
## FIGURE 15-3. BROOM Stone Deflector (Optional) S/N 800201 and Above



ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1	D-27697	Stone Deflector Weldment .....	1
---	D-27681	. Deflector Wrapper .....	1
2	A-27682	Rubber Retainer (Front) .....	1
3*	A-25214	Rubber Retainer (Corner Bend) .....	2
4	A-25237	Rubber Retainer Weldment (Sides) .....	2
5	C-33345	Hinge Plate Assembly .....	2
6*	2816	Cotter Pin .....	4
7	B-27684	Rubber Skirt (Front).....	1
8	B-27679	Rubber Skirt (Sides).....	2
9*	C-33346	Hinge Plate Assembly (Front) .....	1
10	2755-1	Washer, 1/2" Flat.....	56
11	0559	Hex Head Bolt .....	16
12	0563	Hex Head Bolt .....	28
13	0331	Hex Head Bolt .....	25
14*	A-25206	Pin .....	2
15	2660	Stover Nut .....	25
16	2664	Stover Nut .....	28

See Figure 15-3-1 For Stone Deflector Cartridge Options

## FIGURE 15-3-1. BROOM Stone Deflector Cartridges S/N 800201 and Above

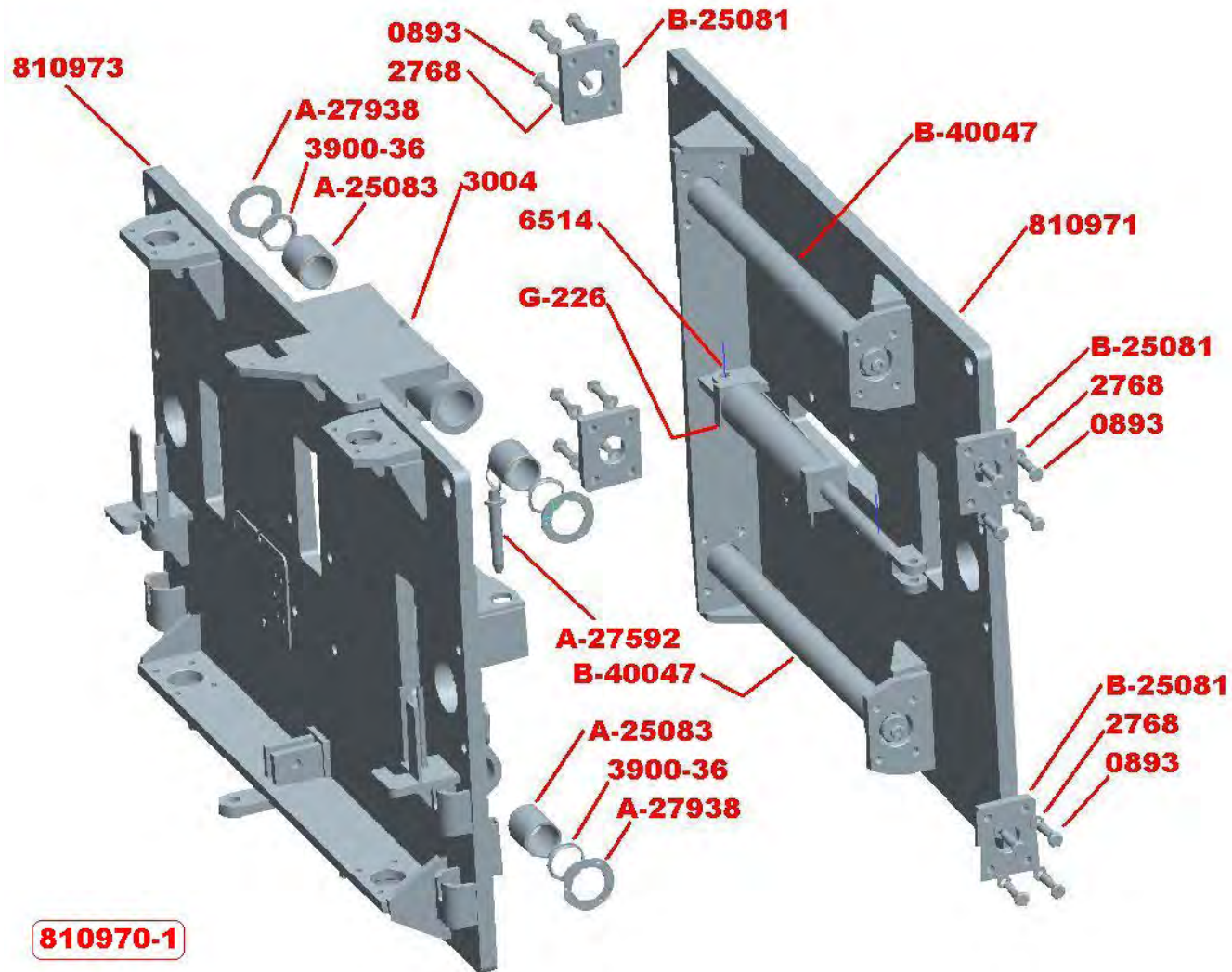


ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
---	800045	Mult. V Cartridge Assembly.....	1
1	D-33418	Cartridge, RH .....	1
2	D-33417	Cartridge LH.....	1
3	0775	Hex Head Bolt .....	16
4	2668	Stover Nut .....	16
5	2755-2	Flat Washer, 5/8".....	32
--	800139	Single V Rubber Cartridge Assembly.....	1
1	800138	Cartridge, RH .....	1
2	800137	Cartridge, LH.....	1
3	0775	Hex Head Bolt .....	16
4	2668	Stover Nut .....	16
5	2755-2	Flat Washer, 5/8".....	32
---	800044	Single V Cartridge Assembly .....	1
1	D-33416	Cartridge, RH .....	1
	2514	.. Hex Nut .....	1
	A-33458	.. Plate .....	1
	A-33549	.. Plate, Hardox .....	1
2	D-33415	Cartridge, LH.....	1
	2514	.. Hex Nut .....	1
	A-33458	.. Plate .....	1
	A-33549	.. Plate, Hardox .....	1
3	0775	Hex Head Bolt .....	16
4	2668	Stover Nut .....	16
5	2755-2	Flat Washer, 5/8".....	32

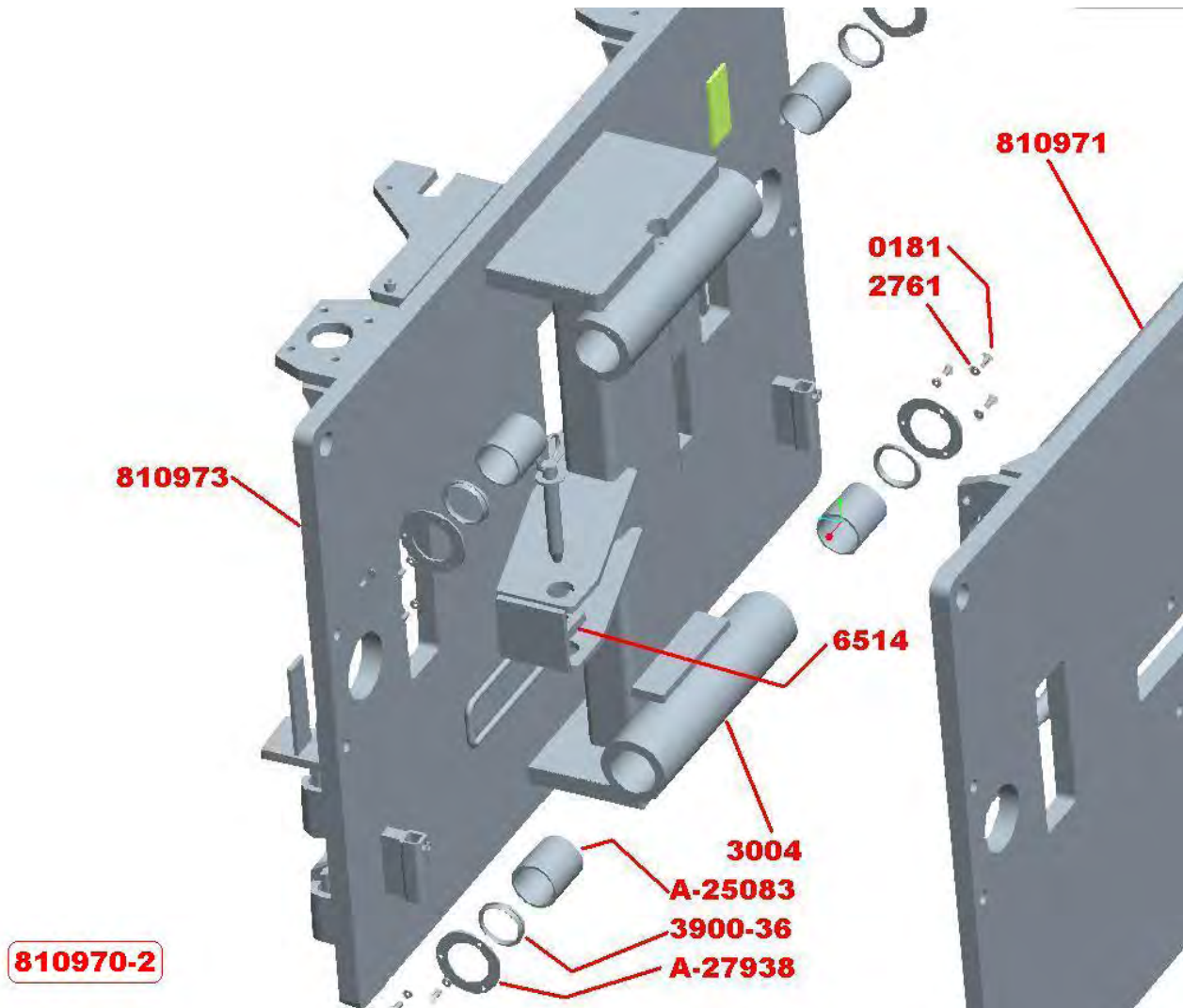
**FIGURE 15-4. BROOM  
Broom Steps (Option)  
S/N 800201 and Above**



**FIGURE 15-5. BROOM  
 TRANSVERSING OPTION**



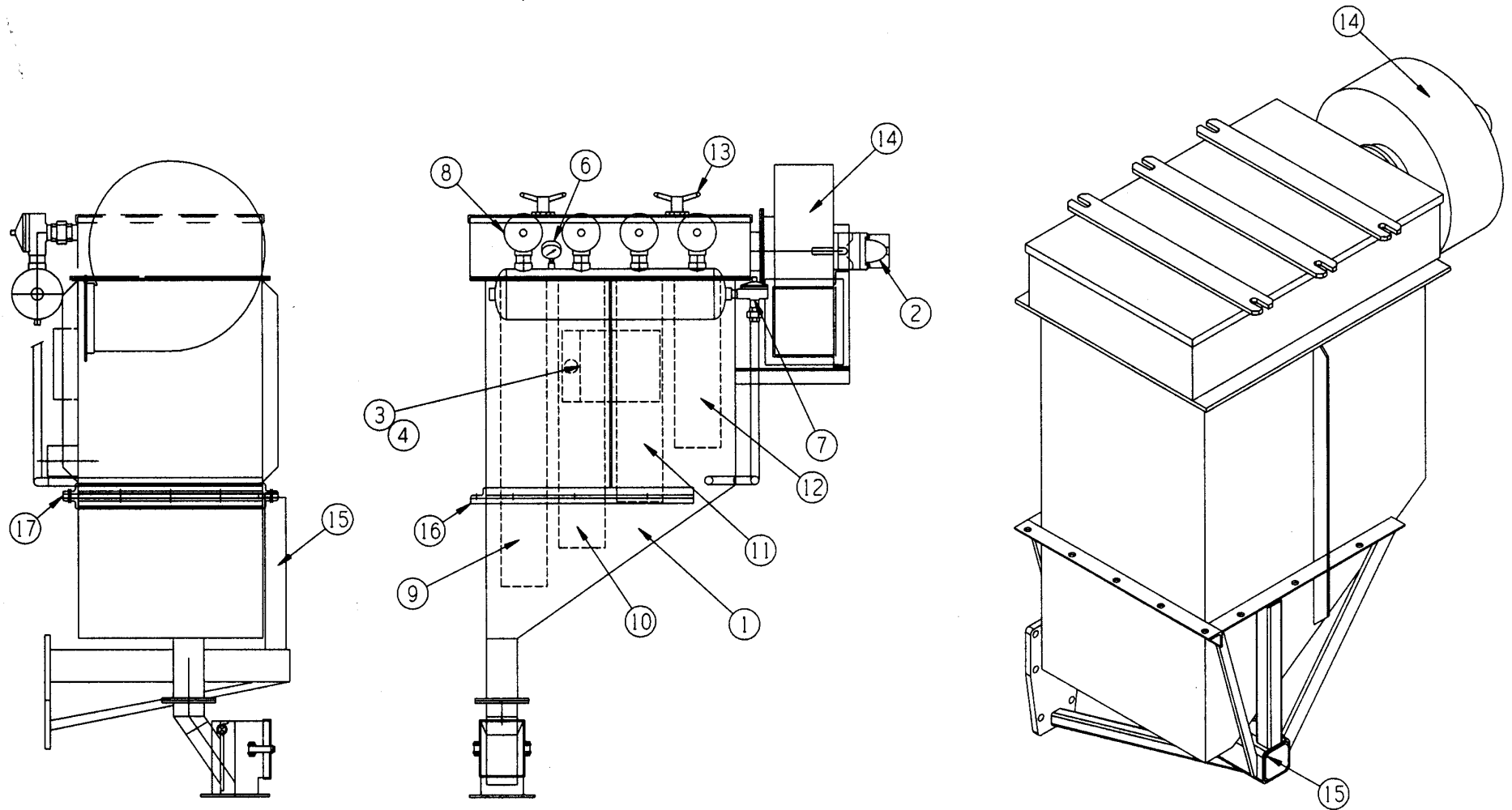
**FIGURE 15-5. BROOM  
TRANSVERSING OPTION**







**FIGURE 16-1. DUST COLLECTOR**  
**Direct Drive Broom Option**  
**S/N 800201 and Above**

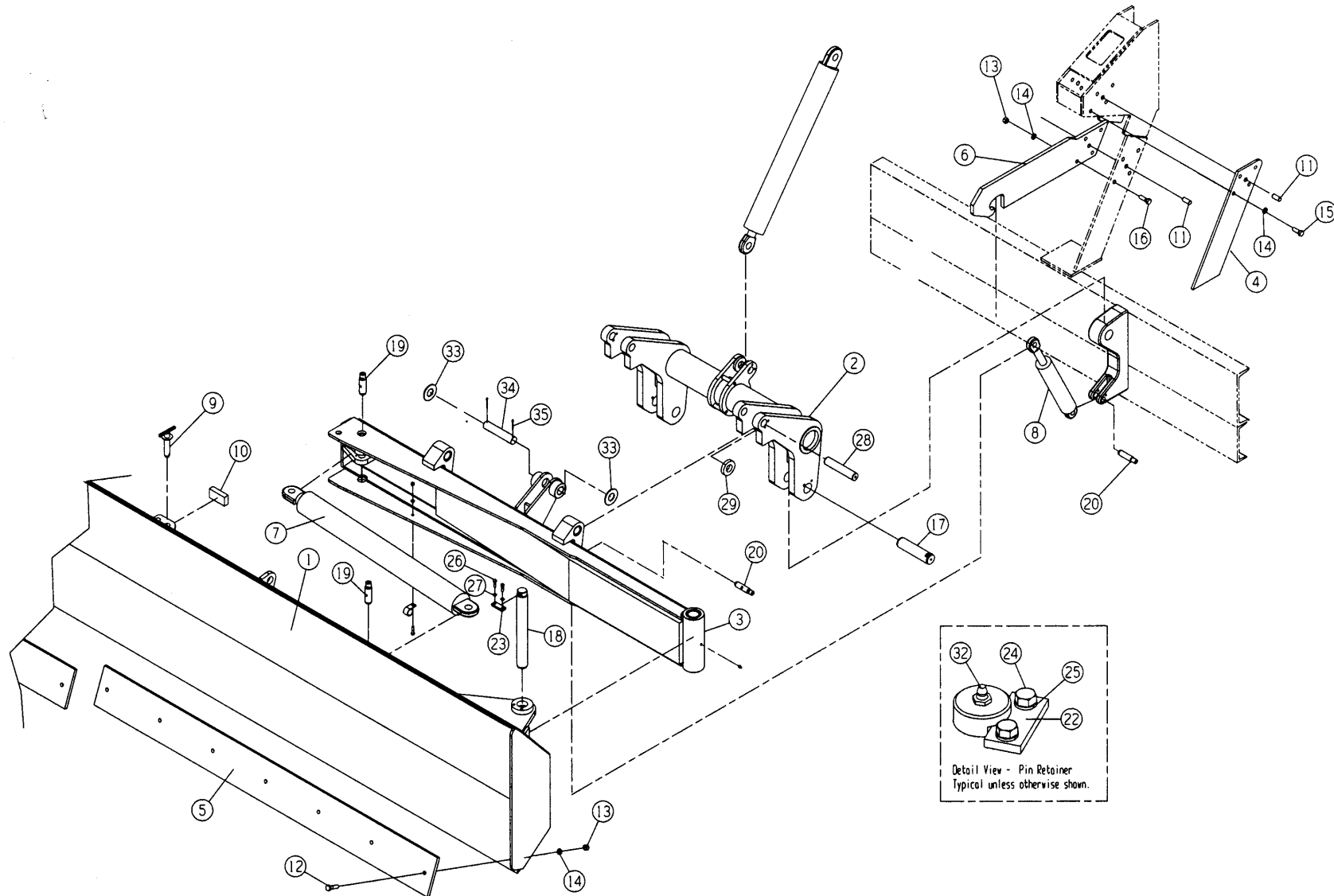


## FIGURE 16-1. DUST COLLECTOR Direct Drive Broom Option S/N 800201 and Above

ITEM NO.	PART NO.	DESCRIPTION	UNITS PER ASSY
1	840090	Dust Collector, Side Mount.....	1
2	500041	Motor, Hydraulic .....	1
3	520140	Timer, 24V.....	1
4	620062	Timer Shock Mount .....	1
5	380038	Manometer .....	1
6	540005	Pressure Gauge .....	1
7	540006	Air Header Drain Cock.....	1
8	680039	Diaphragm Valve .....	4
9⓪	680041	Dust Cartridge 40" .....	3
10⓪	680042	Dust Cartridge 35" .....	3
11⓪	680043	Dust Cartridge 29" .....	3
12⓪	680044	Dust Cartridge 22" .....	3
13	620063	Service Door Handle .....	4
14	680037	Fan .....	1
15	700038	Dust Collector Mount.....	1
16	680006	Side Vibration Mounts .....	2
17	680007	Rear Vibration Mount.....	1
18*	680025	Hose, 4" Weather Resistant .....	1

- ⓪ These cartridges are washable as follows:
1. Put on existing cages in order to be washed
  2. Let them dry on cage for 24 hours
  3. DO NOT USE WASHING MACHINE!!! This will shrink the cartridges and they will not be able to be reinstalled on the cages.

**FIGURE 17-1. 175" SNOW WINGS**  
**Left (Shown)/Right**  
**S/N 800201 and Above**



## FIGURE 17-1. 175" SNOW WINGS Left (Shown)/Right S/N 800201 and Above

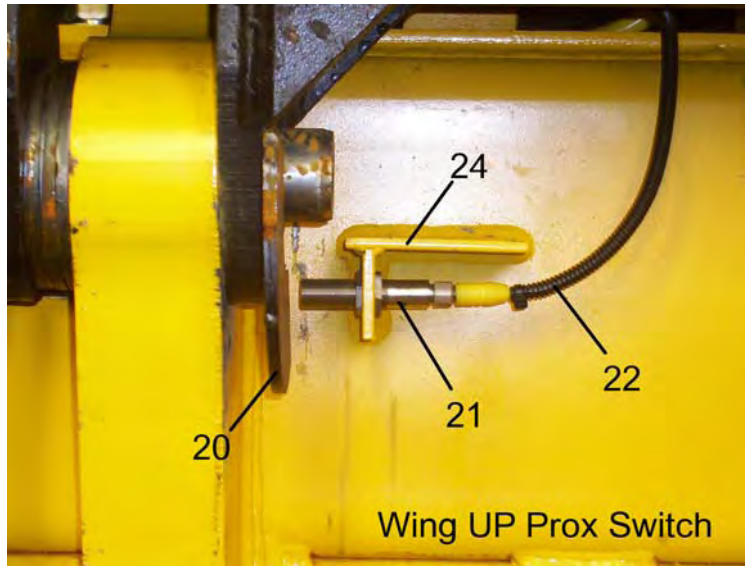
ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1A	D-32302	LH Wing (Shown) .....	1
1B	D-32303	RH Wing .....	1
2	802194	Lift Bracket.....	2
3A	802192	LH Support Arm.....	1
3B	802193	RH Support Arm .....	1
4	A-27556	Plate .....	2
5	B-32312	Wing Blade .....	4
6	802196	Plow Hook .....	2
7	7500-101	Wing Tilt Cylinder .....	2
--	SK7500-101	. . Seal Kit .....	1
8	7500-68	Wing Lift/Extend Cylinder .....	4
--	SK7500-68	. . Seal Kit .....	1
9	A-27592	Security Pin .....	2
10	A-27559-6	Shim .....	2
11	2913	Dowel Pin .....	4
12	0785	Bolt, Hex 5/8" x 2-1/4 Grade 5.....	28
13	2514	Nut, Hex 5/8" .....	44
14	2766	Lockwasher, 5/8" .....	44
15	0777	Bolt, Hex .....	8
16	0781	Bolt, Hex 5/8" x 2 Grade 5 .....	8
17	A-25790	Pin .....	4
18	B-4708-3	Pin .....	1
19	B-4704-10	Pin .....	4
20	B-4703-2	Pin .....	8
21	802195	Support Bar .....	2
22	A-5200-21	Keeper Plate.....	18
23	A-5200-31	Keeper Plate.....	2
24	0187	Bolt, Hex .....	36
25	2761	Lockwasher .....	36
26	0327	Bolt, Hex .....	6
27	2762	Lockwasher .....	4
28	700283	Pin .....	2
29	A-27385	Washer .....	4

ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
32	3004	Grease Fitting.....	20
33	2721	Washer, 1-1/2".....	4
34	A-27125	Pin .....	2
35	2817	Cotter Pin .....	4
36	3881	Hose Clamp .....	4
37	0331	Bolt, Hex.....	1
38	2660	Nut, Hex .....	2
39*	4524x10	Chain 10-Inch Grade 30.....	2
40*	750236	Lockup Cylinder (Optional).....	1

See next page for Snow Wing Prox Switch Info



**FIGURE 17-1. 175" SNOW WINGS**  
**Left (Shown)/Right**  
**S/N 800201 and Above**

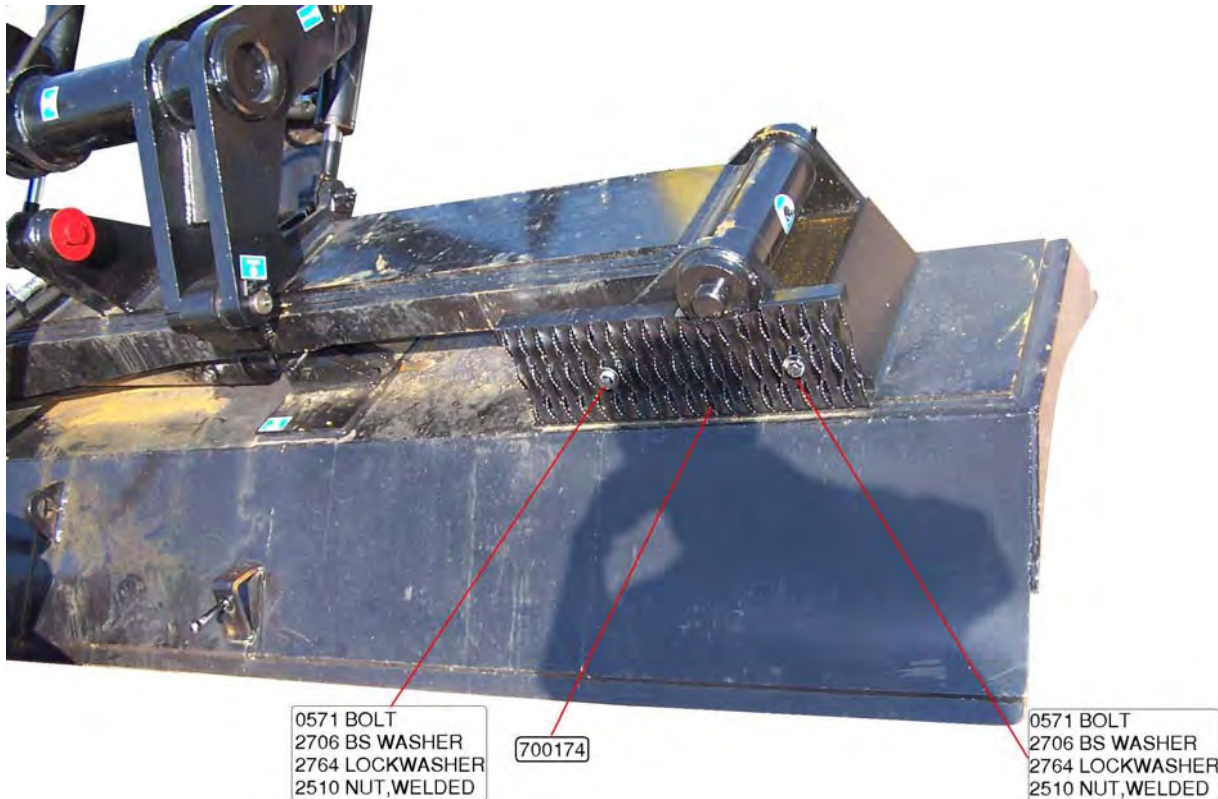


The following items are located on the frame next to the wings and control the Wing UP functions. When switching from ballast to snow wings, item 20A is replaced by 20B.

ITEM NO.	PART NO.	DESCRIPTION	UNITS PER ASSY
20A	700085	Flag, Prox Switch (Summer).....	1
20B	700084	Flag, Prox Switch (Winter).....	1
21	5127411	Switch, Prox .....	1
22	22311601-060	Cable, Microfast Prox Switch.....	1
24	802072	Prox Switch Mtg. Bracket .....	1

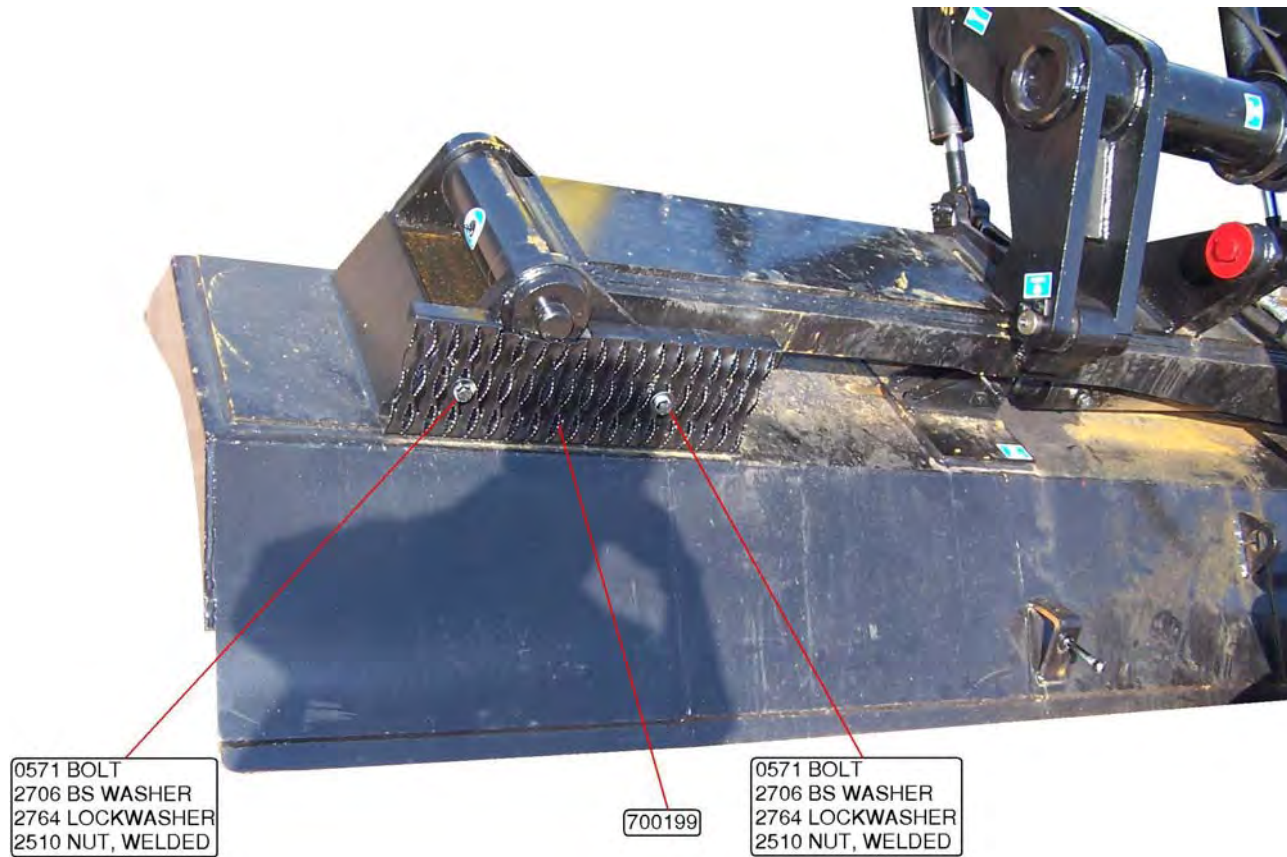
**FIGURE 17-2. 175" SNOW WINGS  
Steps (option)  
S/N 800201 and Above**

**Right  
Hand**



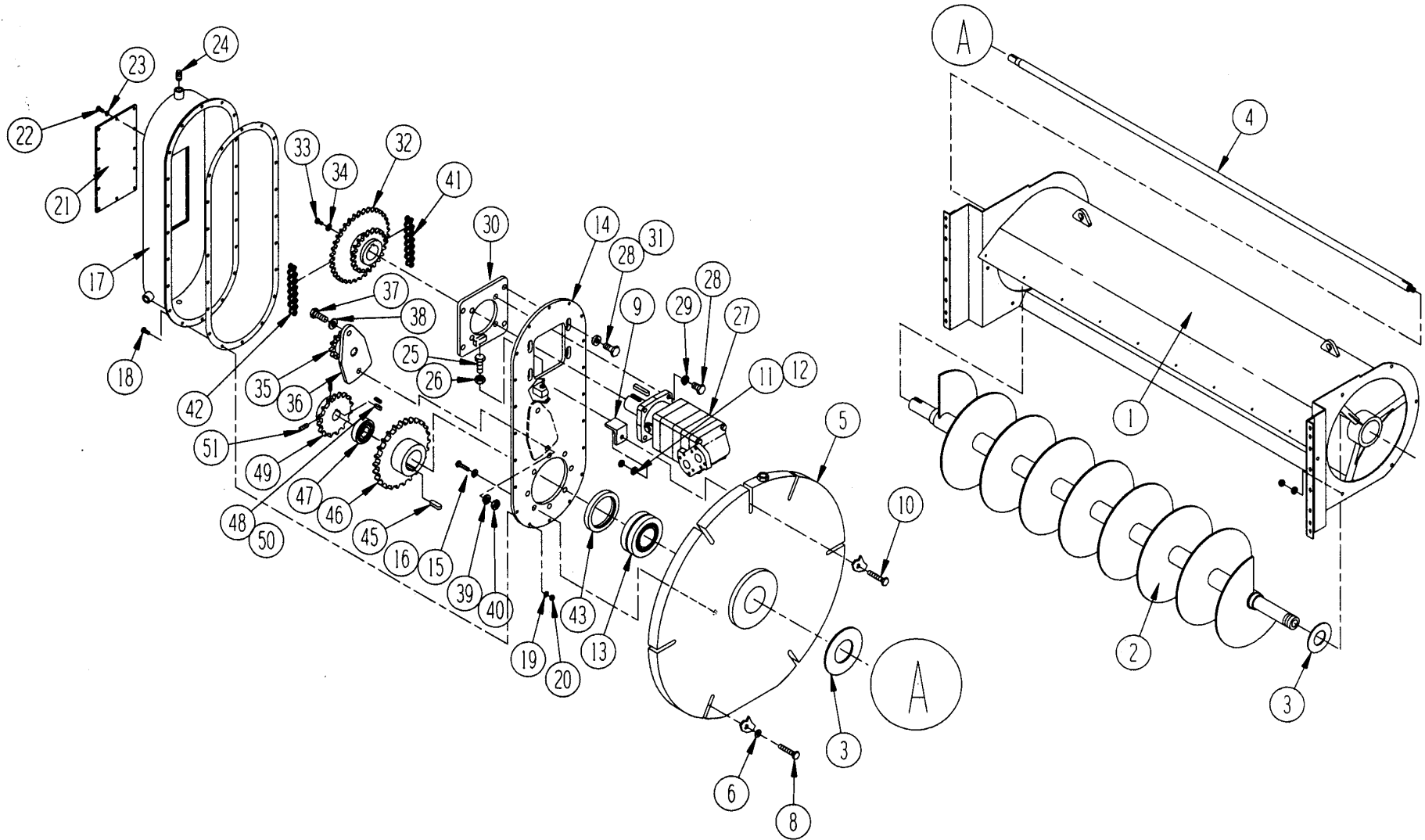
**FIGURE 17-2. 175" SNOW WINGS  
Steps (option)  
S/N 800201 and Above**

**Left Hand**





**FIGURE 18-1. SNOW SCREW**  
**S/N 800201 and Above**

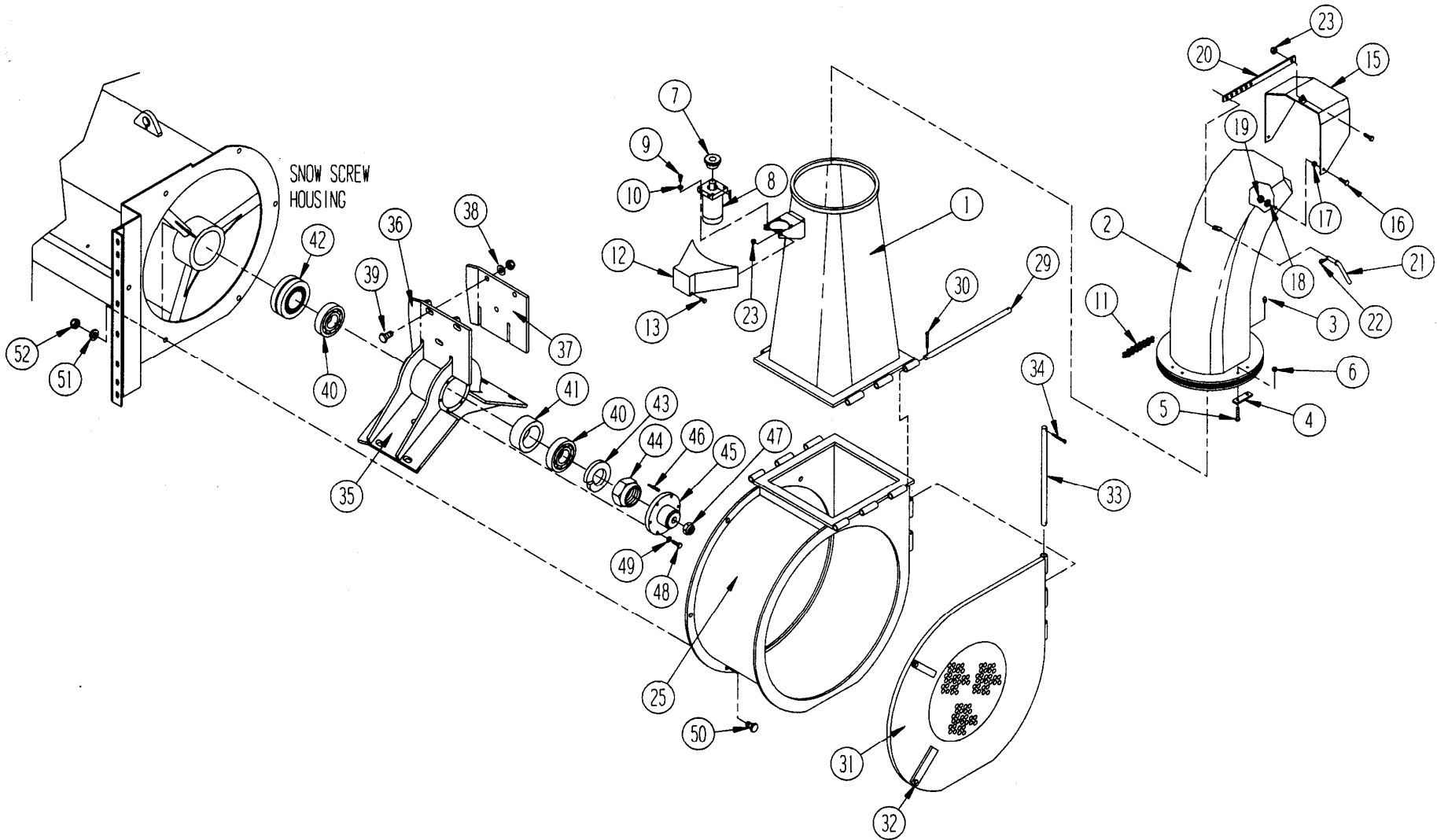


## FIGURE 18-1. SNOW SCREW S/N 800201 and Above

ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE	ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1	D-32911	Screw Cover .....	1	--	B-32880PROD	Adjuster Assembly .....	1
--	3006	Grease Fitting .....	1	35	A-32895	. Sprocket .....	1
2	D-10342	Screw Conveyor .....	1	36	B-32881	. Bracket .....	1
3	B-10344	Flinger .....	2	37	897	. Hex Bolt 3/4 x 2-3/4 .....	1
4	B-10343	Blower Shaft .....	1	38	2755-3	3/4" Alloy Flat Washer .....	1
5	B-33574	Counterweight .....	1	39	2768	3/4" Lockwasher .....	1
--	3004	Grease Nipple .....	1	40	2670	3/4 Stover Nut .....	1
6	2755-3	3/4" Flat Washer .....	6	41	4539-68	Chain .....	1
7	2670	3/4" Stover Nut .....	6	42	4539-70	Chain .....	1
8	905	Hex Bolt 3/4 x 3-1/4" Grade 5 .....	6	43	3900-74	Oil Seal .....	1
9	A-32894	Angle .....	1	44*	3900-73	Sealing Ring .....	1
10	591	Hex Bolt 1/2 x 3-1/2 Grade 5 .....	1	45	A-27967	Key .....	1
11	2737	1/2 SAE Washer .....	1	46	B-33860	Auger Sprocket Assembly .....	1
12	2664	1/2" Stover Nut .....	1	47	4274	Bearing .....	1
13	4264	Bearing, Shaft .....	2	48	A-10347	Spacer .....	1
14	C-32918	Cover Assembly .....	1	49	C-10346	Blower Sprocket .....	1
15	771	Hex Bolt 5/8 x 1-1/2 Grade 8 .....	8	50	A-27966	Key .....	1
16	2755-2	5/8" Flat Washer .....	8	51	1928	Set Screw .....	1
17	C-32917	Chain Case .....	1				
18	0327	Hex Bolt 3/8 x 1-1/4 .....	20				
19	2762	3/8" Lockwasher .....	20				
20	2506	3/8" Hex Nut .....	20				
21	B-32885	Cover .....	1				
22	183	Hex Bolt 5/16 x 5/8" .....	12				
23	2761	5/16" Lockwasher .....	12				
24	3636	Square Head Plug .....	3				
25	2115	Square Head Set Screw .....	1				
26	2516	Hex Nut .....	1				
27	F-233	Motor, Hydraulic (Auger Drive) .....	1				
28	777	Hex Bolt .....	4				
29	2766	Lockwasher .....	4				
30	B-32954	Motor Base .....	1				
31	A-32989	Washer .....	4				
32	C-33863	Drive Sprocket Assembly .....	1				
33	558	Hex Bolt 1/2 x 1-1/2 .....	1				
34	2764	1/2" Lockwasher .....	1				



**FIGURE 18-2. SNOW SCREW**  
Snow Chute  
S/N 800201 and Above

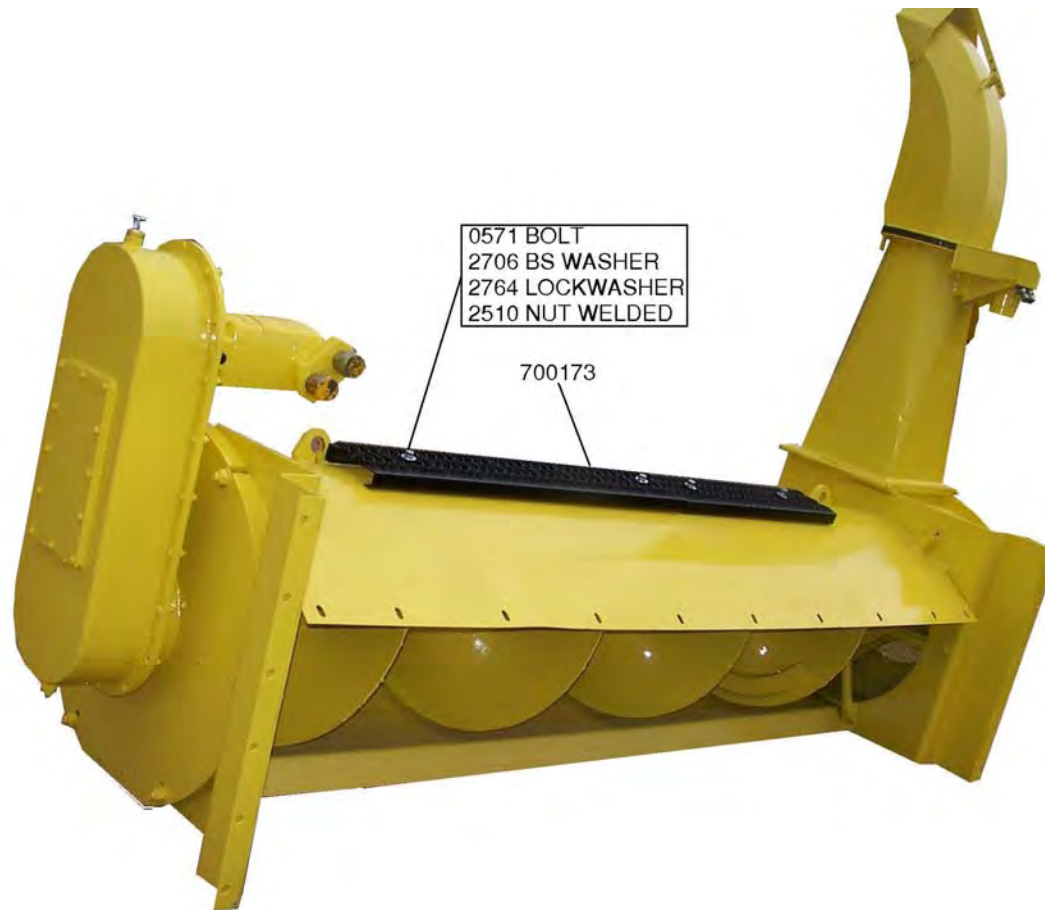


## FIGURE 18-2. SNOW SCREW Snow Chute S/N 800201 and Above

ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE	ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1	0218-2500	Chute Base.....	1	35	D-33135	Blower Propeller.....	1
2	0218-2300	Discharge Chute.....	1	36	C-33137	Plate.....	3
3	3004	Grease Nipple.....	3	37	C-33138	Propeller Blade.....	3
4	0218-0800	Retaining Plate.....	4	38	2755-2	Flat Washer.....	9
5	0087	Hex Bolt ¼ x 2.....	8	39	801	Hex Bolt.....	9
6	2656	Lock Nut ¼".....	8	40	4200-3	Bearing.....	2
7	6721	Chain Sprocket.....	1	41	0218-0600	Spacer.....	1
<b>8</b>	F-201	Motor, Hydraulic (Chute Rotate).....	1	42	7612	Retaining Ring.....	2
9	0323	Hex Bolt 3/8 x 1.....	8	43	7024	Lock Washer.....	1
10	2762	Lock Washer.....	4	44	7309	Locknut.....	1
11	4538-92	Chain.....	1	45	0218-3000	Flange.....	1
12	0218-1000	Chain Guard.....	1	46	A-27968	Key.....	1
13	0323	Hex Bolt 3/8 x 1.....	4	47	2675	Lock Nut.....	1
14	2762	Lock Washer.....	4	48	0327	Hex Bolt.....	27
15	0218-3400	Deflector Hood.....	1	49	2762	Lock Washer.....	10
16	0075	Hex Bolt ¼ x 1-1/4.....	2	50	0559	Hex Bolt.....	16
17	A-33640	Spacer.....	2	51	2755-1	Hardened Washer.....	15
18	2734	5/16" SAE Flat Washer.....	2	52	2664	Lock Nut.....	22
19	2656	Lock Nut.....	2	53	2668	Lock Nut (Goes w/Blade).....	9
20	0218-3500	Adjusting Bar.....	1	*	2729 9279	Tarp, Discharge Chute.....	1
21	A-32892	Pin Assembly.....	1	*	3104 491	Screw, Sheet Metal.....	10
22	2874-3	Hitch Pin Clip.....	1				
23	2660	Lock Nut.....	1				
24	331	Hex Bolt.....	1				
25	0218-2200	Blower Housing.....	1				
26	2737	½ SAE Washer.....	6				
27	2664	Lock Nut.....	6				
28	563	Hex Bolt.....	6				
29	0218-2900	Hinge Pin.....	2				
30	2797	Cotter Pin.....	4				
31	C-33535	Inspection Cover.....	1				
32	A-7315	Locking Handle.....	2				
33	0218-3600	Hinge Pin.....	2				
34	2797	Cotter Pin.....	2				

ⓘ Service Required Monthly November through March

**FIGURE 18-3. SNOW SCREW  
Housing Steps (Option)  
S/N 800201 and Above**

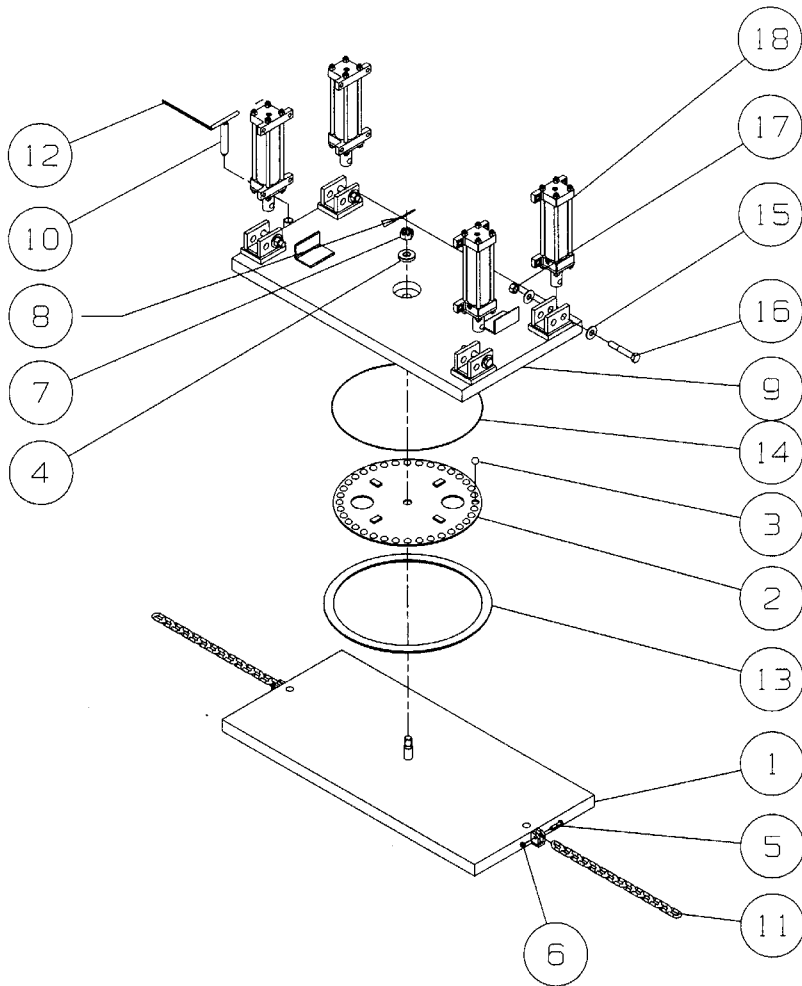


**FIGURE 18-4. SNOW SCREW  
Toolbox (Option)  
S/N 800201 and Above**

840096

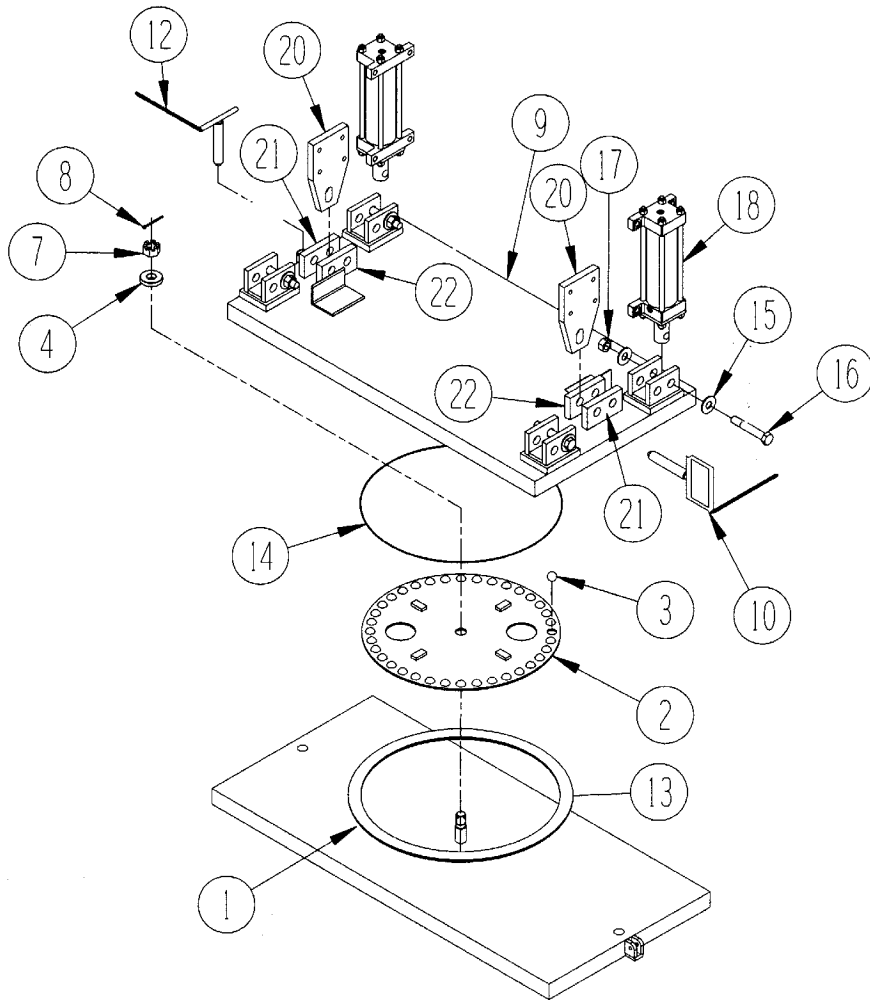


**FIGURE 22-1. TURNTABLE**  
**Without FRA Lockup**  
**S/N 800201 - 800219**



ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
--	D-40550	Turntable Assembly.....	1
1	C-40552	. Bottom Plate.....	1
2	C-25801	. Retaining Ring.....	1
3	6412	. Steel Ball Bearing.....	36
4	A-24246	. Washer.....	1
5	0571	. Hex Head Bolt.....	2
6	2664	. Stover Nut.....	2
7	2612	. Slotted Nut.....	1
8	2831	. Cotter Pin.....	1
9	D-40551	. Top Plate.....	1
10	A-25802	. Lockpin.....	1
11	4523-14	. Chain.....	1
12	4524-13	. Chain.....	1
13	K-012-87	. Turntable Seal.....	1
14	M-023-90	. Wire.....	1
15	2739	Washer.....	8
16	0829	Hex Head Bolt.....	16
17	2668	Nut.....	16
18	7500-54	Cylinder.....	16

## FIGURE 22-2. TURNTABLE With FRA Lockup S/N 800220 and Above



ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
--	700080	Turntable Assembly.....	1
1	700079	. Bottom Plate.....	1
2	C-25801	. Retaining Ring.....	1
3	6412	. Steel Ball Bearing.....	36
4	A-24246	. Washer.....	1
7	2612	. Slotted Nut.....	1
8	2831	. Cotter Pin.....	1
9	700079	. Top Plate.....	1
10	700029	. Lockpin.....	1
12	4524-13	. Chain.....	1
13	K-012-87	. Turntable Seal.....	1
14	M-023-90	. Wire.....	1
15	2775-2	Washer.....	8
16	0829	Hex Head Bolt.....	4
17	2668	Nut.....	4
18	7500-54	Cylinder.....	4
19*	SK-7500-54	. . Seal Kit.....	1
20	700028	Turntable Lockup Plate.....	2
21	700030	Outer Turntable Lockup Clevis.....	2
22	700032	Inner Turntable Lockup Clevis.....	2
23	620032	Lock Pin.....	2
24*	8581	Limit Switch.....	2
25*	8697	Long Reach Limit Switch Arm.....	2
26*	2213	RH Machine Screw #10-32 x 2.....	4
27*	87120762-144	RH Limit Switch Cable.....	1
28*	87120762-078	LH Limit Switch Cable.....	1
29*	520029	Cable Strain Relief.....	2

The following mount Item 20 to the frame:

35*	931	Hex Bolt ¼ x 6.....	8
36*	2670	Stover Nut.....	8
37*	2710	Washer.....	8



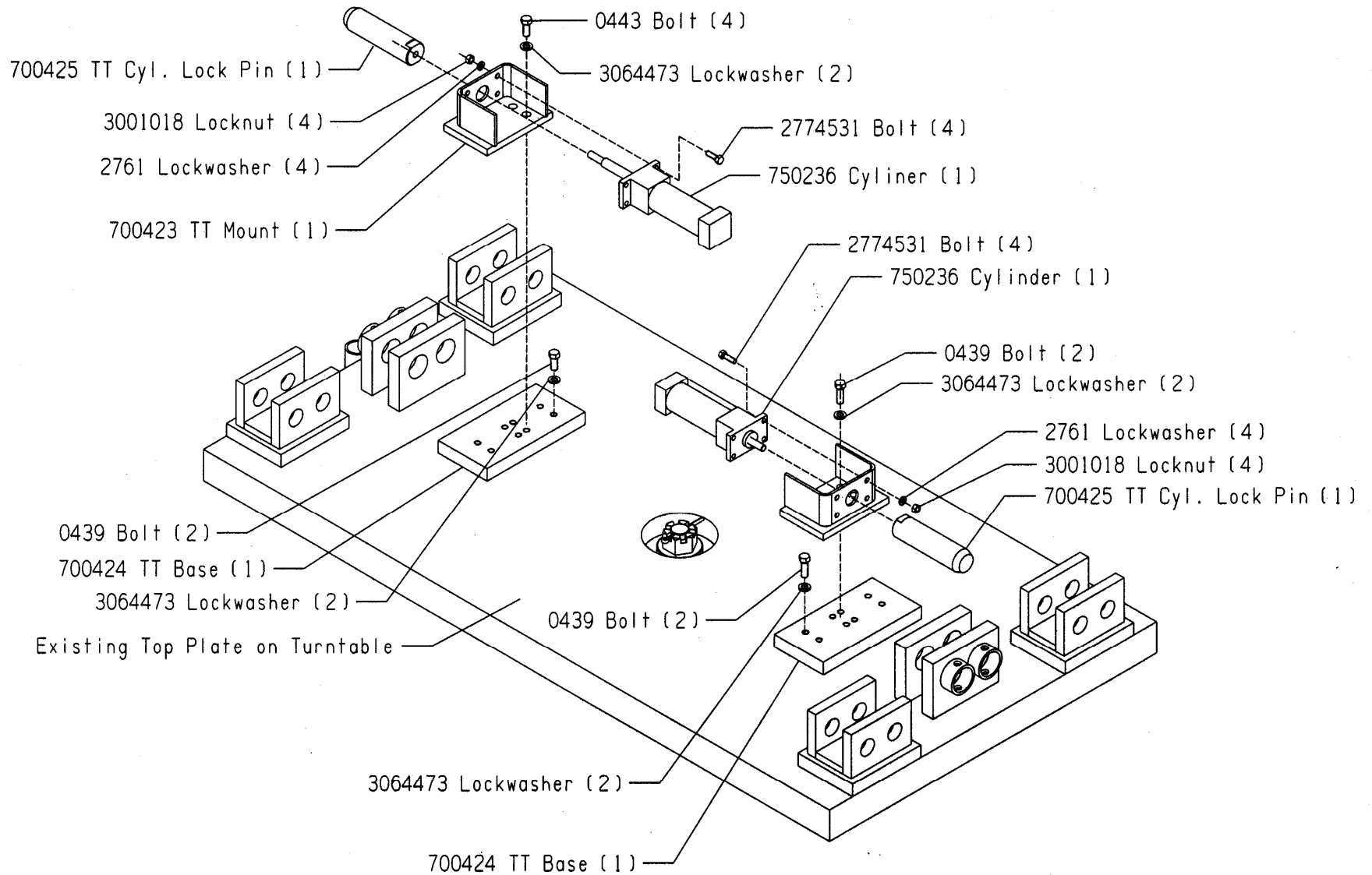


**FIGURE 22-2-1. TURNTABLE  
Warning System (Option)  
S/N 800220 and Above**

**NO ARTWORK AVAILABLE**

ITEM NO.	PART NO.	DESCRIPTION	UNITS PER MACHINE
1	5127230	Limit Switch .....	2
2	2213	Rd Head Machine Screw 10-32 x 2.....	4
3	8697	Limit Switch Arm .....	2
4	520028	Strain Relief .....	2
5	87120762-144	Microfast Cable.....	1
6	87120762-078	Microfast Cable.....	1

**FIGURE 22-2-2. TURNTABLE  
w/Hydraulic Lockups  
S/N 800220 and Above**





**FIGURE 22-2-2. TURNTABLE  
w/Hydraulic Lockups  
S/N 800220 and Above**