

Farm King

OPERATOR AND PARTS MANUAL

Round Bale Carrier

Model 2400H

OPERATION

Connecting Hydraulic Lines



HIGH PRESSURE FLUID HAZARD

To prevent serious injury or death from high pressure fluid:

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



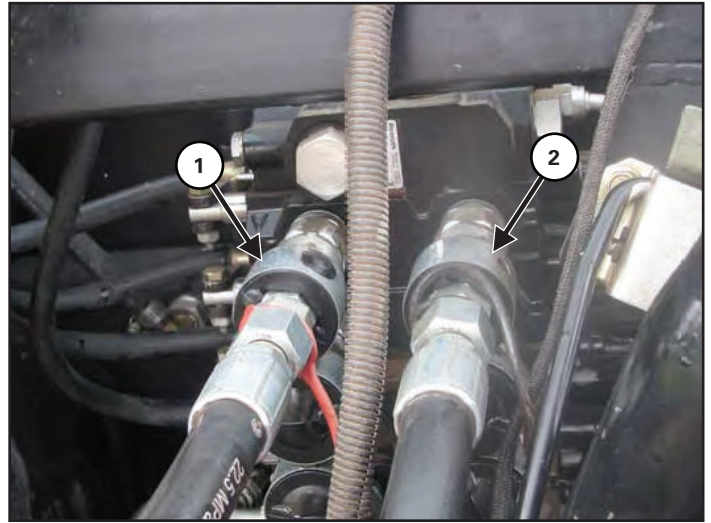
Contain and dispose of any oil leakage in an environmentally safe manner.

Thoroughly clean the quick couplers before making connections. Dirt can quickly damage the system.

NOTE: Make sure the quick couplers are fully engaged. If the quick couplers do not fully engage, check to see that the couplers are the same size and type.

To Connect:

Figure 1



Connect the six hydraulic lines to the tractor [Figure 1]

1. Supply Line (Red dust cap) "P" port of valve bank.
2. Return Line (Black dust cap) "T" port of valve bank.

To Disconnect:



AVOID BURNS

Hydraulic fluid, tubes, fittings and quick couplers can get hot when running equipment. Be careful when connecting and disconnecting quick couplers.

Pull on the hydraulic lines to disconnect.

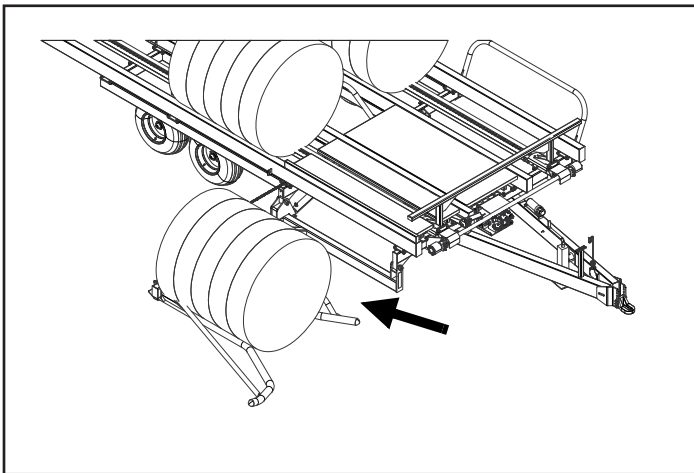
End On Bale Pick-Up**IMPORTANT**

Always lower lift arm fully before operating the pusher.

**IMPORTANT**

Always load two bales on the front before operating the pusher (pushing bales back).

Figure 2



Move the tractor and bale carrier straight forward drive so the inner arm of the loading fork is against the inner edge of the bale. The bale will then be loaded onto the carrier in the same direction as it was picked up **[Figure 2]**.

Act on tractor auxiliary hydraulics to raise the lift arm placing the bale onto the deck.

NOTE: The momentum of the lift arm makes the bale roll to the left side, contacting the bale retainer and then resting between the left inside and outside carrier beams. When the second bale is loaded, it will fall into place between the right inside and outside carrier beams.

Act on tractor auxiliary hydraulics to fully lower the lift arm.

Move the tractor and bale carrier straight forward drive so the inner arm of the loading fork is against the inner edge of the next bale.

Then load the second bale onto the carrier in the same direction as it was picked up.

Act on tractor auxiliary hydraulics to fully lower the lift arm.

Act on tractor auxiliary hydraulics to move pusher backward, moving the bales far enough to the rear to provide room to load the next two bales.

Act on tractor auxiliary hydraulics to move pusher all the way forward.

Repeat procedure until the desired number of bales have been loaded or the carrier deck is full (Indicator Raised).

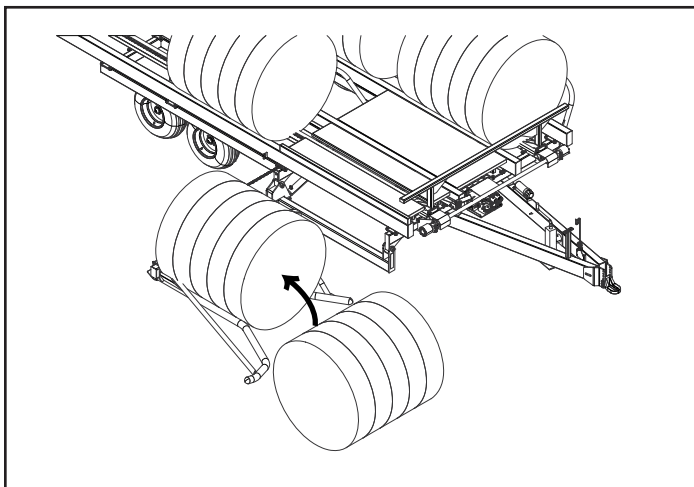
Side On Bale Pick-Up



Contact the bale about 12 in. (30 cm) from its outer end when using the bale deflector. Contacting the bale further to the inside may result in damage to the deflector, bale lift arm or bale.

To pick up bales that are placed "Side On," the deflector rotates the bale 90° before it is lifted up onto the carrier deck. Forward travel is used to rotate the bale. Approach the bale so that the outer end of the bale rides up on the bale deflector as the loading arm moves under the bale.

Figure 3



Move the tractor and bale carrier straight forward, contact the first bale (Side-On) about 12 inches (30 cm) from the outer end when using the bale deflector [Figure 3].

Act on tractor auxiliary hydraulics to raise the lift arm placing the bale onto the deck.

NOTE: The momentum of the lift arm makes the bale roll to the left side, contacting the bale retainer and then resting between the left inside and outside carrier beams. When the second bale is loaded, it will fall into place between the right inside and outside carrier beams.

Act on tractor auxiliary hydraulics to fully lower the lift arm.

Move the tractor and bale carrier straight forward until the deflector contacts the second bale (Side-On) about 12 inches (30 cm) from the outer end (rotating bale 90°.

Then load the second bale onto the carrier in the same direction as it was picked up.

Act on tractor auxiliary hydraulics to fully lower the lift arm.

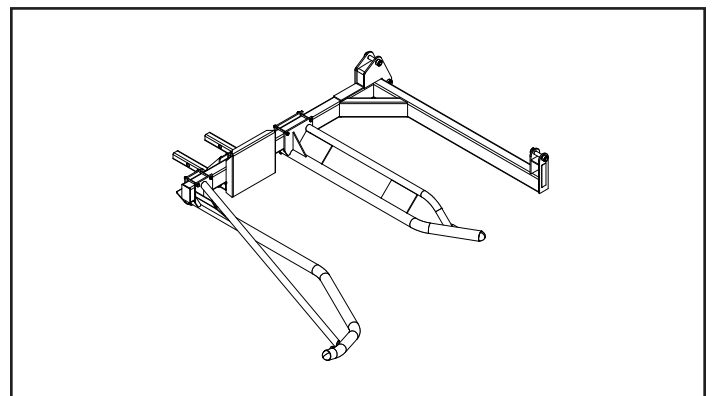
Act on tractor auxiliary hydraulics to move pusher backward, moving the bales far enough to the rear to provide room to load the next two bales.

Act on tractor auxiliary hydraulics to move pusher all the way forward.

Repeat procedure until the desired number of bales have been loaded or the carrier deck is full (Indicator Raised).

Optional Bale Stop

Figure 4



An adjustable bale stop [Figure 4] is available, when picking up / loading narrower 48 inch (122 cm) bales.

Using this adjustable bale stop permits loading bales closer to the front of the bale carrier so a full complement of ten (10) bales can be loaded. 48 inch (122 cm) bales only.

NOTE: The adjustable bale stop is bolted to the lift arm with supplied U-bolts and can be adjusted to the desired position.

Unloading Procedure



DANGER

ELECTROCUTION HAZARD

To prevent serious injury or death from electrocution, stay at least 50 ft. (15 m) away from overhead power line when raising tipping frame or lift arm.



WARNING



AVOID INJURY OR DEATH

Before moving the tractor and bale carrier, look in all directions and, make sure no bystanders, especially small children are in the work area. Do not allow anyone between the tractor and the equipment when unloading bales.

Move the tractor and bale carrier to unloading area.

Stop the tractor and bale carrier on flat level surface.

Figure 5



Using the tractor auxiliary hydraulics, raise the tipping frame until the frame is slightly off the ground [Figure 5].

Act on tractor auxiliary hydraulics, once the rear bales have been pushed off, slowly drive forward while pushing the bales back (unloading) to keep all bale ends in contact. When the last bales have been unloaded and indicator lowers, release tractor hydraulics.



CAUTION

Do not run pusher all the way to the end, the resulting shock load may cause damage to chain and drive.



IMPORTANT

Front indicator comes down (after pushing off the last bales) signaling the operator to release pusher back switch.

Drive the tractor forward until there is enough room to safely lower the TIPPING FRAME.

Using the tractor auxiliary hydraulics, fully lower the tipping frame.

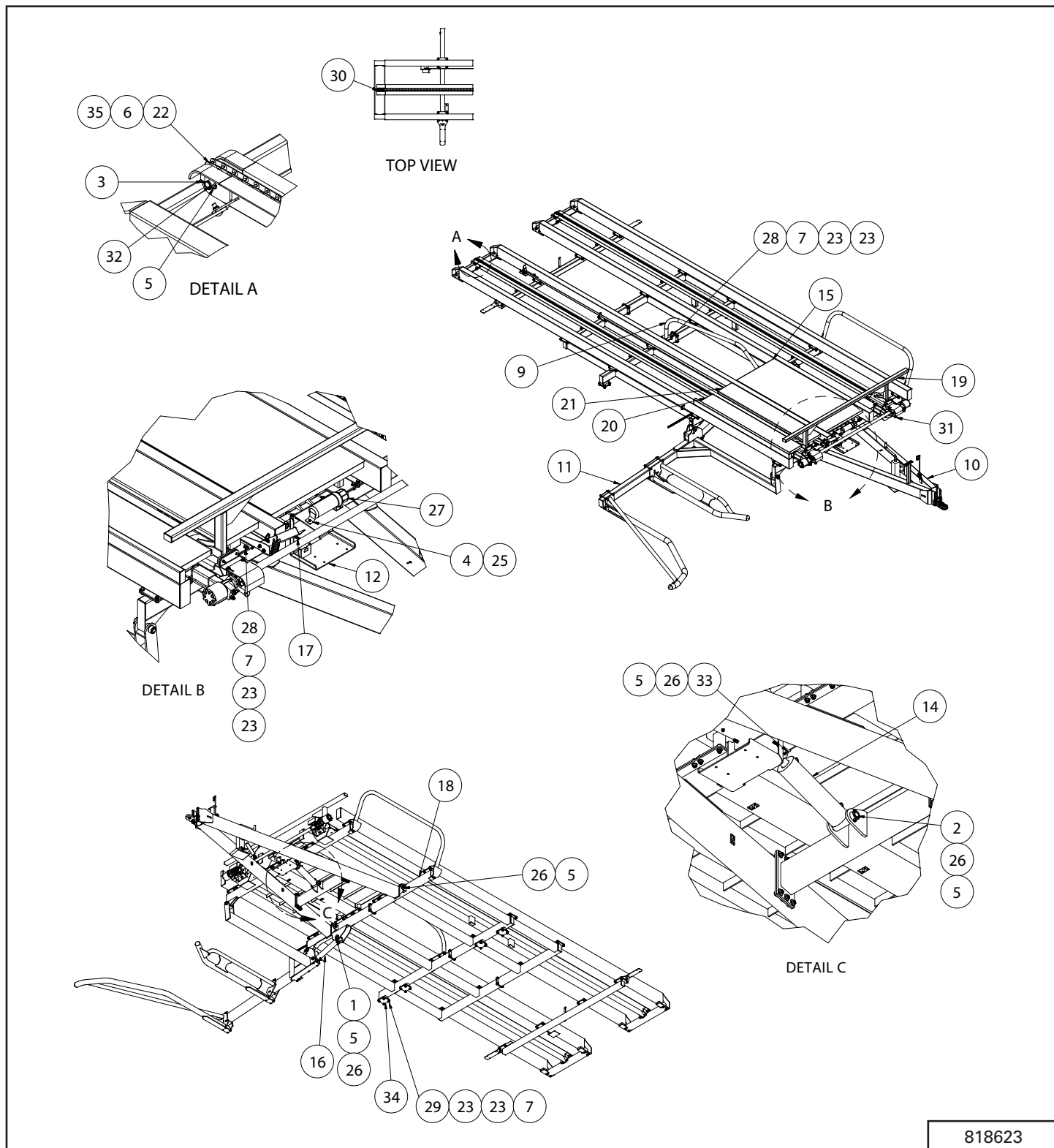
Farm King



PART IDENTIFICATION

The parts identification section list descriptions, part numbers and quantities for all North America Base Model 2400H bale carriers. Contact your Farm King dealer for additional parts information.

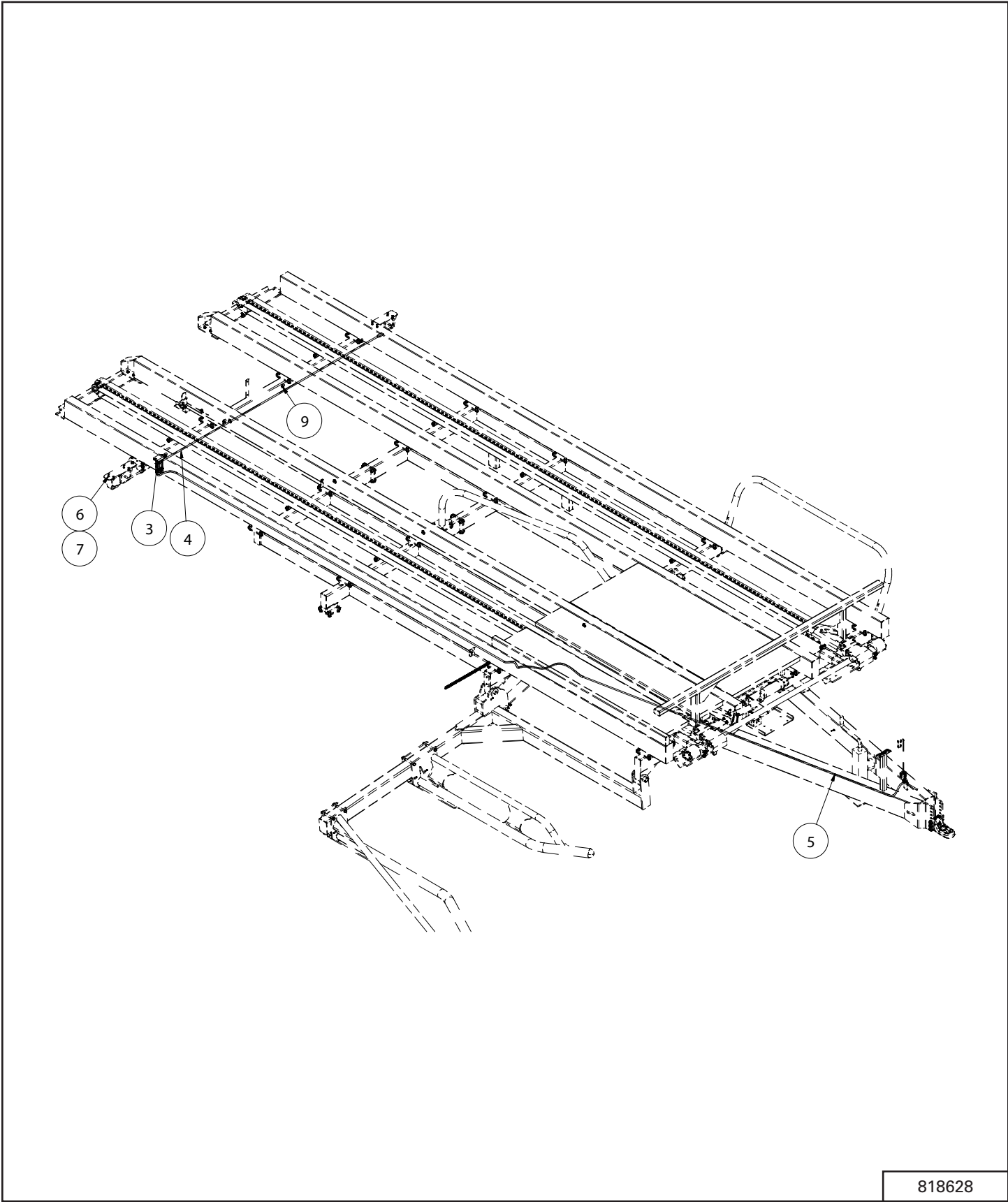
FRAME



818623

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	112954	PIN 1.25 DIA. X 6.75 LG	1
2	113698	PIN LDR 1.25D X 7.13L 86015933	1
3	811795	3/8" X 2" HEX BOLT (PL)	2
4	812026	5/16" X 1" HEX BOLT (PL)	4
5	812363	3/8" LOCK NUT (PL)	7
6	813643	CONNECTOR LINK HD C2080	2
7	813663	NUT LOCK (STEEL) 0.500NC GRCPL	56
8	815379	PIN 1.25 DIA X 3.75 LONG	2
9	815689	BALE DIVERTER	1
10	815699	HITCH ASSEMBLY	1
11	815709	LIFT ARM ASSY, RH	1
12	815737	VALVE BRACKET WELD'T	1
13	815739	MANIFOLD COVER	1
14	815803	CYL 4X12 ASSEMBLY	1
15	815805	PLATFORM WELD'T	1
16	815839	CYL 3.0 X 16.0 INL W/ FITTINGS	1
17	815857	U-BOLT 3/8" DIA, FOR 6"W, 4.625"L	2
18	817528	ASSEMBLY - MAINFRAME	1
19	817540	ASSEMBLY - PUSHER	1
20	817550	WELDMENT - RHS BALE RAMP	1
21	817551	WELDMENT - LHS BALE RAMP	1
22	817554	CHAIN 632IN LENGTH (316 PITCHES)	2
23	84048	1/2" SAE FLAT WASHER (PL)	112
24	84051	1" HEX JAM NUT GR2	2
25	84541	LOCK NUT (NYLON) 0.313 NC	4
26	87936	CSHH G5 P 3/8 X 2.5 86505344	5
27	909277	MANUAL HOLDER	1
28	967274	BOLT HEX 0.500NC X 1.50 GR8 PL	40
29	967275	BOLT HEX 0.500NC X 2.00 GR8PL	16
30	A7008-00	CHAIN GUIDE ROLLER ASM	2
31	C2768-00	1" X 6" HEX BOLT (PL)	2
32	E2345-00	PIN CYLINDER 1.0 DIA X 4.250	2
33	E2445-00	LIFT ARM PIN 1.25 DIA C1045CR	1
34	INE2401-01	AXLE BOLT PLATE	4
35	SZ000589	C2080H O/L ROLLER CHAIN LINK	2

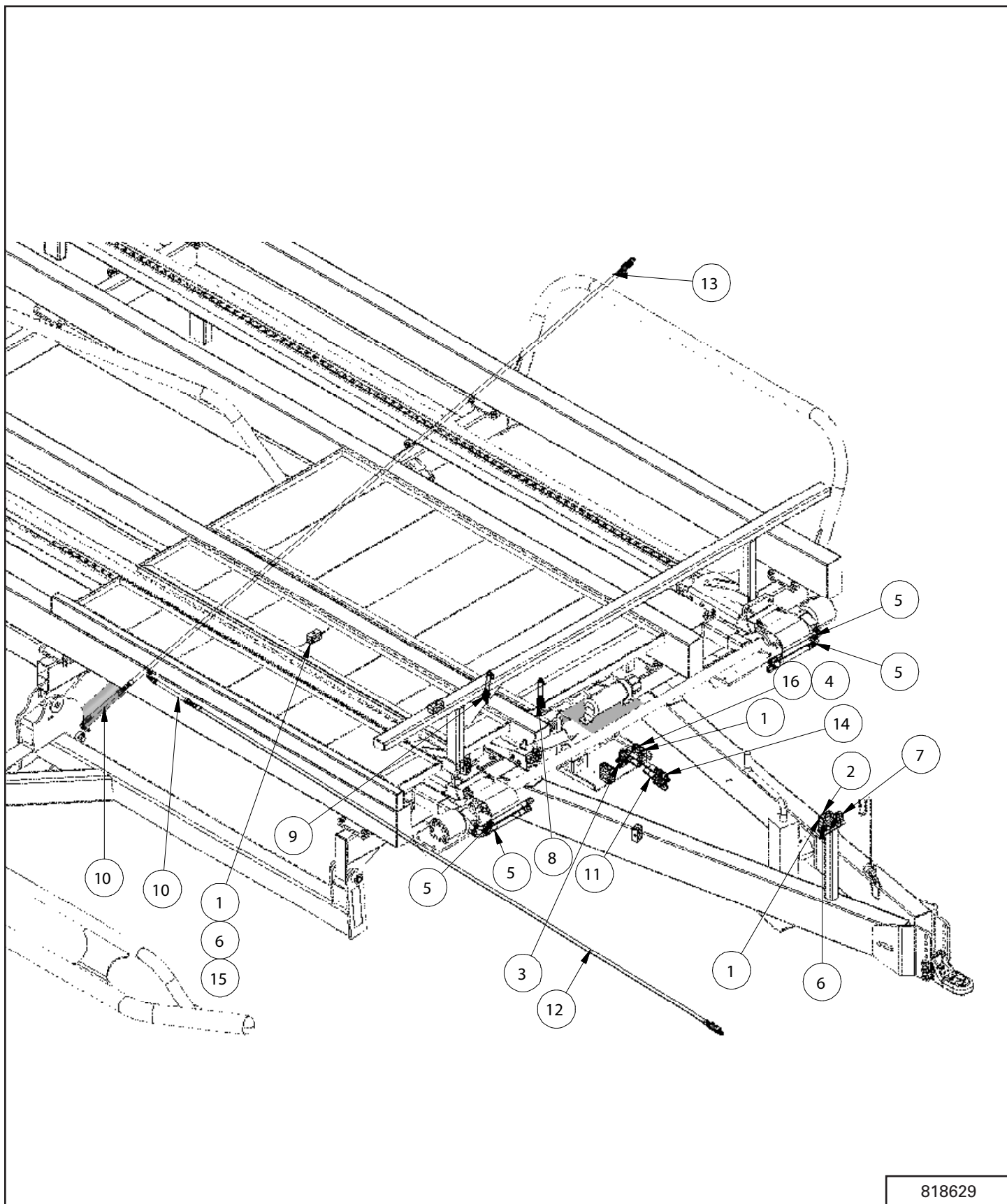
ELECTRICAL COMPONENTS



818628

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	812537	NUT LOCK (NYLON) 0.136 NC GRB PL	2
2	813958	SCREW MACH #8-32 X 0.75 FLATHD	2
3	814193	ENHANCED AG LIGHTING MODULE	1
4	814197	EXTENSION HARNESS 114" LG	1
5	814198-Routing	MAIN HARNESS 48' LONG 7 PIN PLUG	1
6	SXBH0251008YZ	BOLT; 1/4 X 1.00 GRADE 8YZ	8
7	SXLN-025-NIYZ	LOCKNUT; 1/4" NYLON INSERT	8
8	SZ000565	5/16-12 X 3/4 STAPSCW #3 PNT	8
9	SZ000566	5/16X0.406 HOLE VINYL DIP CLAMP	10

HYDRAULIC COMPONENTS



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	29256	COVER PLATE	8
2	810582	5/16" X 3" HEX BOLT (PL)	1
3	812069	TEE 3/4 MJIC	2
4	812362	5/16" LOCK NUT (PL)	2
5	815605	HOSE 1/2 X 60 3/4SWFJIC	4
6	815608	BLOCK POLYPROPELENE 3/8 PAIR	11
7	815610	1/2" HOSE LINE MOUNT ASSEMBLY	1
8	815612	HYD HOSE ASM/TILT CYL	1
9	815614	HYD HOSE ASM/TILT CYL	1
10	815616	HOSE 3/8 X 117 9/16SWFJIC X 9/16SWFJIC90	2
11	815822	HYD ASSY 1/2 X 142 PRESS LINE	1
12	819026	ASSEMBLY - HYD HOSE 0.375" X 134" (PRESSURE)	1
13	819055	ASSEMBLY - HYD HOSE 0.375" X 134" (RETURN)	1
14	819056	HYD ASSY 1/2 X 142 RETURN LINE	1
15	81925	HEX BOLT 5/16" X 1 3/4" (PL)	5
16	SZ126061	BLT, HHCS, 5/16-18 UNC 4" G5	2

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