

Farm King

OPERATOR AND PARTS MANUAL

Round Bale Carrier

Model 1450H

OPERATION



IMPORTANT

Prior to operation ensure the operator has read and understands the safety requirements of the bale carrier. Ensure the pre-operation checks have been completed prior to operation.

Attaching Bale Carrier to Tractor



CAUTION

Shut off tractor, engage parking brake and remove key before working around bale carrier. Refer to tractor manual for tractor parking procedures.



CAUTION

Use only the drawbar to couple the bale carrier to the tractor. Ensure drawbar is capable of handling the bale carrier load. The tractor must have a minimum mass of 12480 lb (5660 kg) and recommended 60 hp (45 kw).

Using the tongue jack, raise tongue to align with hitch pin, adjust clevis position as necessary to level the carrier beams.

Position tractor and secure with locking type drawbar pin (not supplied). Use an approved hitch pin with a mechanical retainer.

Route safety chain around the hitch clevis, around drawbar support and back hook. Refer to tractor manual for further drawbar instructions.

Do not use intermediate support on drawbar as attaching point.

Store safety chain off the ground when not in use. If safety chain is damaged in any way, contact your dealer for a replacement.

Optional Clevis Hitch (SZ000513)

For tractors not equipped with a clevis drawbar, a clevis hitch for the bale carrier is available.

Use an approved hitch pin with a retainer.

Attaching Bale Carrier Controls to Tractor

Bale lift functions are controlled by the tractor's remote valve.

The tilt function is controlled by the tractor's remote valve. Two hoses complete with red hydraulic tip covers supply extension and retraction.

The pusher function is controlled by the tractor's remote valve. Two hoses complete with red hydraulic tip covers supply extension and retraction.

Carrier Control Operation

To operate the raise / lower deck tilt function, engage the remote hydraulic valve in the extension position to raise the tilt deck. Engage the retract position to lower the deck.

To operate the push / retract pusher function, engage the remote hydraulic valve in the extension position to move the pusher to the rear of the deck. Engage the retract position to move the pusher back to the home position.

To operate the lift arm raise / lower function, engage the remote hydraulic valve in the extension position to raise the lift arm to the deck position. Engage the retract position to lower the lift arm to the ground position.

Loading Bales



WARNING

Make sure area is clear before lowering bale lift-arm. Failure to do so could result in injury or death.

Align the tractor and bale carrier as indicated in the pictorial for pick up method used. Slowly approach the bale at 5 mph (8 km/h) while loading. When bale is properly captured, begin to lift bale.

The bale carrier is designed to load bales with one of three options. Refer to the appropriate section for your option loading instructions.

NOTE: Before loading bale the pusher must be at the front of the carrier deck.

Fixed Pickup Arm With Deflector

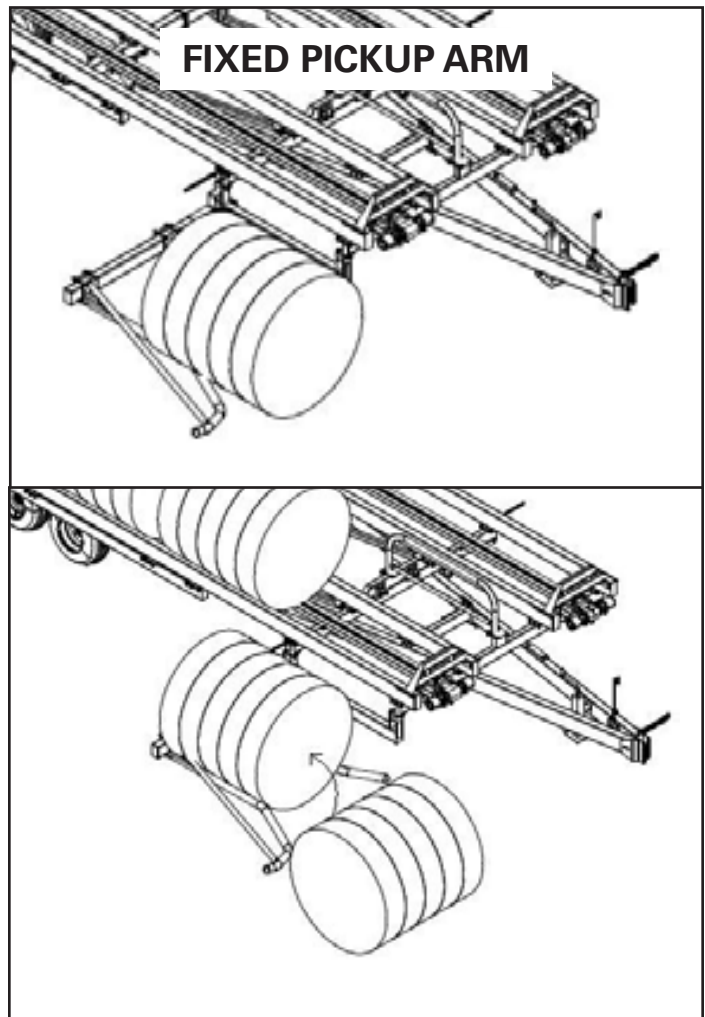
The fixed pickup arm with deflector allows the bales to be picked up from either "End On" or "Side On." To pickup bales that are placed "End On," drive so the inner arm of the loading fork is against the inner edge of the bale. The bale will then be loaded onto the carrier in the same direction as it was picked up.

The deflector rotates the bale 90 before it is lifted up onto the carrier. 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.

The bale is loaded onto the carrier deck by acting on the hydraulic controls until the bale rolls off the pickup arm and onto the carrier beams.

NOTE: The bale should be contacted about 12" (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.

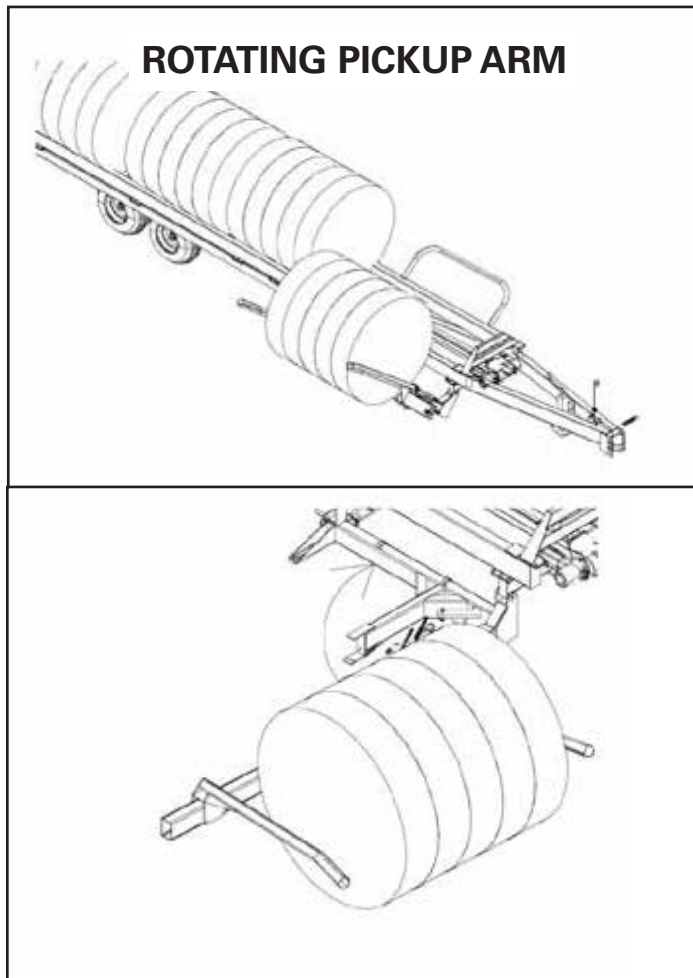


Rotating Pickup Arm (RPU)

The rotating pick up arm (RPU) loads bales “side on”. The lift arm starts in the lowered position. Drive forward until the forks are positioned around the ends of the bale with the inside stationary fork as close as possible to the bale.

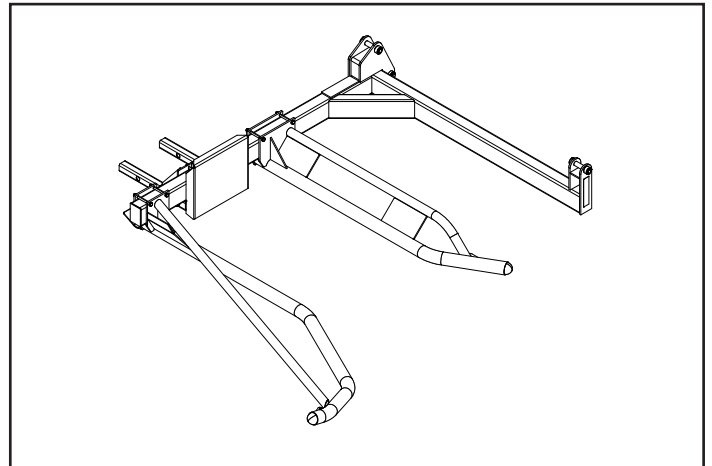
Act on the hydraulic controls. The bale is then squeezed on end until the pressure matches the sequence valve setting that rotates and raises the bale.

When the bale is lifted above, the bale is released by acting on the hydraulic controls. This releases the bale and returns the RPU to the ready state for the next bale. Refer to the assembly instructions for adjusting RPU settings.



Optional Bale Stop (815692)

When loading narrower bales (4'), an adjustable bale stop is available. Using this stop permits loading bales closer to the front of the bale carrier so a full complement of 10 bales can be loaded. This stop is bolted to the lift arm with supplied U-Bolts and is adjusted to the position desired.



Bale Pusher Operation



CAUTION

To avoid unbalanced loads the operator is only required to push back one bale length to prepare for the next bale.

NOTE: Lower loading arm before operating the pusher.

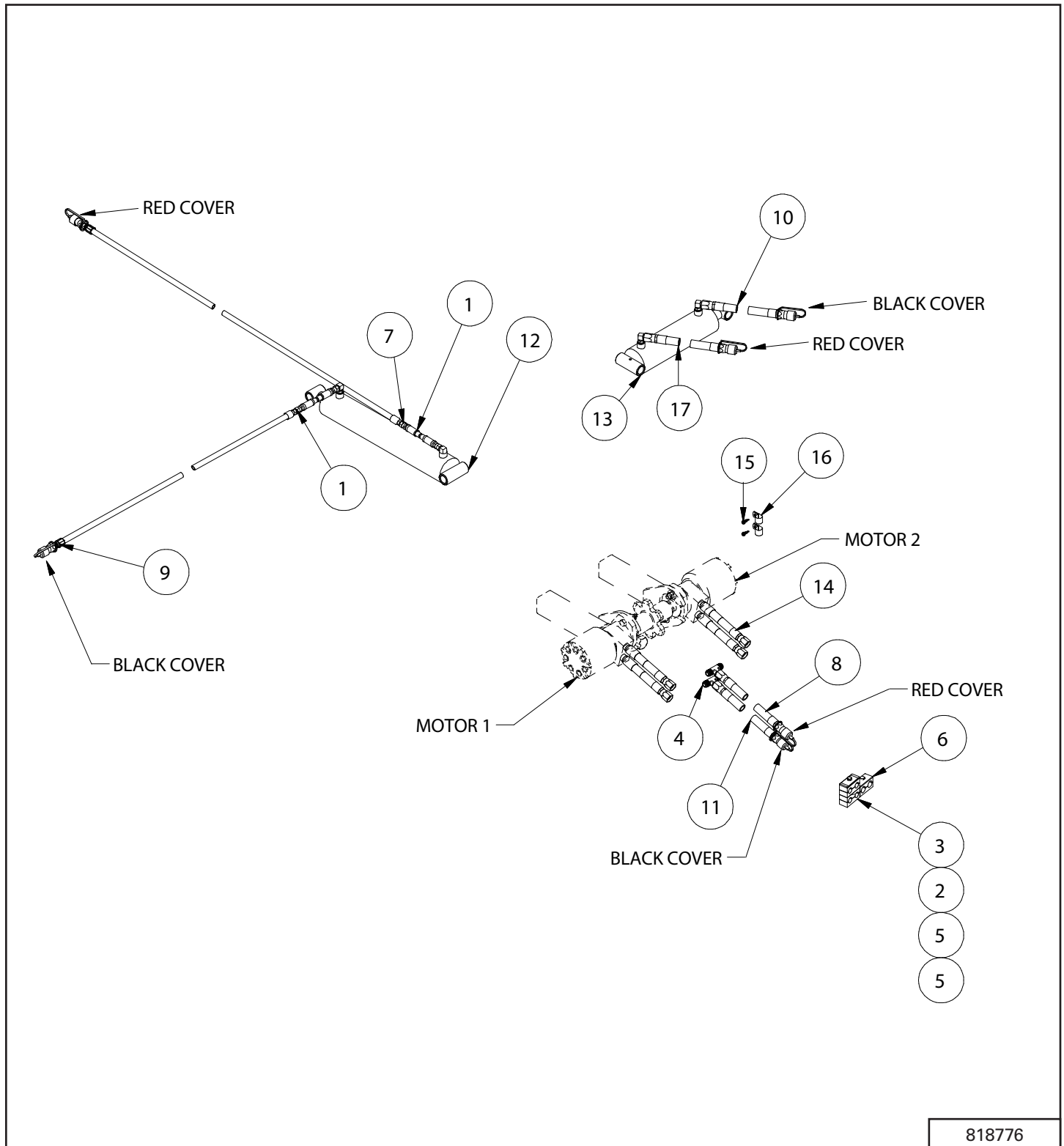
Act on the hydraulic controls to move the bales far enough to the rear to provide room to load the next bale.

Return pusher all the way to the front by acting on the hydraulic controls.

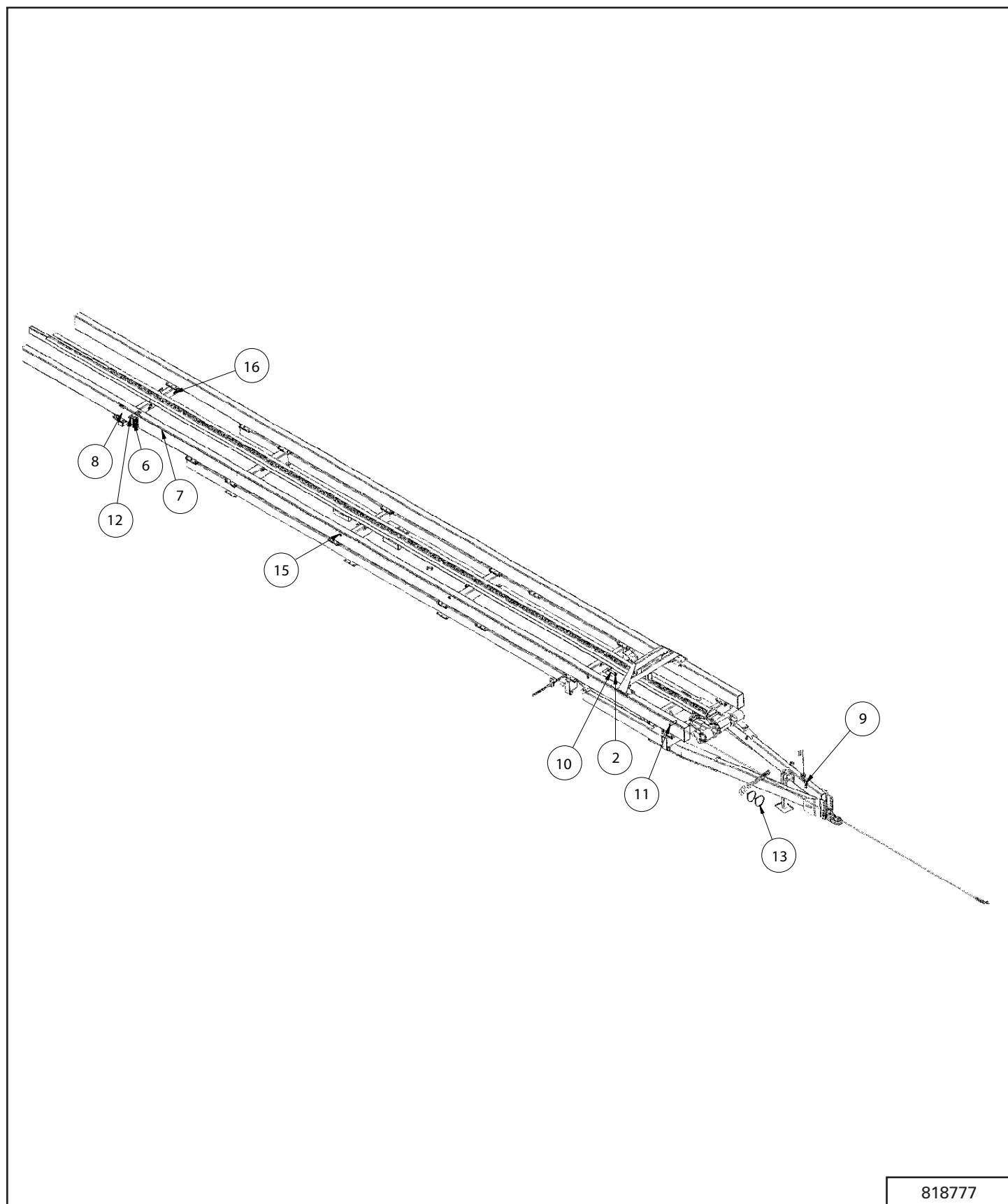
PART IDENTIFICATION

The parts identification section list descriptions, part numbers and quantities for all North America Base Model 1450H bale carriers. Contact your Farm King dealer for additional parts information.

HYDRAULIC COMPONENTS



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	115169	3/8 HOSE X 132 ASSY	2
2	29256	COVER PLATE	1
3	810582	5/16" X 3" HEX BOLT (PL)	1
4	812069	TEE 3/4 MJIC	2
5	815608	BLOCK POLYPROPELENE 3/8 PAIR	2
6	815610	1/2" HOSE LINE MOUNT ASSEMBLY	1
7	818775	ASSEMBLY - HYD HOSE 0.375"X92" (PRESSURE)	1
8	819057	HYD ASSY 1/2 X 130 PRESS LINE	1
9	819058	ASSEMBLY - HYD HOSE 0.375"X92" (RETURN)	1
10	819059	TILT CYL ASSY HYD 3/8 HOSE (RETURN)	1
11	A7011-00	HYD ASSY 1/2 X 130 PRESS LINE	1
12	A7013-00RH	TILT CYLINDER ASSEMBLY	1
13	A8012-00	TILT CYL. ASSEMBLY	1
14	SZ000512	HOSE 1/2 X 24 3/4SWFJIC X 7/8 MJIC	4
15	SZ000565	5/16-12 X 3/4 STAPSCW #3 PNT	2
16	SZ103259	CLAMP HOSE TIE-DOWN	2
17	A8013-00	TILT CYL ASSY HYD 3/8 HOSE	1

TAILLIGHT WIRING HARNESS & COMPONENTS

818777

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	811795	3/8" X 2" HEX BOLT (PL)	3
2	812363	3/8" LOCK NUT (PL)	3
3	812537	NUT LOCK (NYLON) 0.136 NC GRB PL	2
4	813958	SCREW MACH #8-32 X 0.75 FLATHD	2
5	814063	CLAMP, WIRING HARNESS	2
6	814193	ENHANCED AG LIGHTING MODULE	1
7	814198	MAIN HARNESS 48' LONG 7 PIN PLUG	1
8	814199	EXTENSION HARNESS 27" LONG	1
9	84498	1/4" LOCK NUT (PL)	1
10	E1932-00	CYLINDER PIN 1.0 X 5 9/16	2
11	E2345-00	PIN CYLINDER 1.0 DIA X 4.250	1
12	E2937-00	PLATE 1500/2500 LIGHTING KIT	1
13	SX3NS21	STRAP; BLACK 21 1/2"	2
14	SXBH-025-075-5	BOLT; 1/4 X 3/4 GR 5	1
15	SZ000565	5/16-12 X 3/4 STAPSCW #3 PNT	8
16	SZ000566	5/16X0.406 HOLE VINYL DIP CLAMP	7

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