INSTRUCTIONS FOR INSTALLING BM15885 ELECTRIC LIFT
OR CONVERSION KIT AM36402 FOR TRACTORS WITH
ELECTRIC LIFT BM15820

Park tractor on a level surface. Depress brake pedal and set parking brake. Place transmission shift lever in "NEUTRAL" position.

Preparing Tractor for BM15885 Electric Lift

1. Raise hood and remove left-hand engine side panel as shown in the tractor operator's manual.
2. Disconnect battery cables and remove battery as shown in operator's manual.
3. Remove three cap screws and hex nut from left-hand console panel. Remove console panel.

5. Bolt pivot link to the secondary lift arm with a 1/4 x 3/4-inch cap screw.

6. Assemble actuator lift pivot pin through anchor and frame holes. Secure pin in place with two 0.125 x 1.125-inch cotter pins.

NOTE: Remove bolts securing secondary lift shaft in place. This will allow adequate clearance for installation of the actuator.
Preparing Tractor for Conversion
Kit AM36402

Removing EM15820 Electric Lift

CAUTION: Disconnect negative battery cable before servicing the electric lift.

1. Raise hood and remove the left-hand engine side panel as shown in the tractor operator's manual.

   Disconnect the orange lead from the positive battery terminal. Remove the battery as shown in tractor operator's manual.

2. Disconnect the control switch lead at the accessory harness.

3. Uncouple the motor wiring harness and cut the insulator coupler off the harness.

7. Disconnect the secondary lift link at threaded yoke end.

8. Install rear part of actuator on lift pivot pin. Secure the actuator to pivot pin with a 0.531 x 0.812 x 0.060-inch flat washer and 0.125 x 1.25-inch cotter pin.

9. Manually rotate primary lift rearward. Assemble spacer through hole in ram (operating end) of actuator. Insert pin with offset strap through hole in primary lift arm and spacer into hole in quadrant. Secure pin in place by bolting offset strap part of pin to primary lift arm with a 5/16 x 7/8-inch cap screw, 0.060" x 11/32" x 11/16" flat washer and hex. nut.

Prefering Tractor for Conversion Kit AM36402 (Cont'd)

4. Remove the attaching hardware from the lift control panel.

5. Disconnect the cam arm link from the primary lift arm pivot and remove the control panel.

6. Remove the lift lever from the control panel and install it onto the new panel.

INSTALLATION (New Lift RM15885 or Conversion Kit AM36402)

1. Place the new control panel onto the tractor and thread the harness between the primary lift shaft and tractor frame back to the motor.

2. Tape the harness to the actuator housing.

3. Plug the harness and motor insulators together.

IMPORTANT: Be sure the wires are in the correct position in the coupler (red wire to red and yellow wire to yellow) or the lift will not operate.

4. Connect the cam arm link to the primary lift arm.
5. Reinstall the battery and attach the orange lead to the positive battery terminal, replace boot.

6. Connect the control switch lead to the accessory harness.

Before attaching any attachments, operate the lift in both directions to see that it is operating throughout its full range.

See the following attachment adjustments.
IMPORTANT: THE FOLLOWING INSTRUCTIONS ARE TO BE GIVEN TO THE CONSUMER

(Make tractor adjustments before adjusting any of the attachments)

Adjustment procedures for attachments used with the electric lift.

NOTE: These adjustments are to prevent lift linkage from binding and to prevent the actuator from being activated when the attachment has reached the end of its travel when raising or lowering.

TRACTOR ADJUSTMENTS

CAUTION: Disconnect negative battery cable when making this adjustment.

1. Adjust the connecting link between the primary and secondary lift shafts before making any adjustments to attachments.

2. The proper length is 11.9 inches between the centers of the clevis pin holes.

Reinstall connecting link and connect negative battery cable.

IMPORTANT: When installing the connecting link be sure the stop on the secondary lift shaft is toward the front, so the lift arms must be raised slightly to connect the link.

Adjust Stop Spacer

Adjust only when necessary

To check, pull the control lever all the way to the rear.

After the lift has traveled to its fully raised position, turn the key switch off. If a click is noted from the lift solenoid, adjustment is necessary.

1. To adjust, loosen the stop spacer bolt.

2. Pull control lever to the rear.

3. Move lever forward until the key switch can be turned on and off without activating the solenoids.

4. Move the spacer forward until it touches the control switch arm and tighten.
Check that all tractor adjustments have been made

**ATTACHMENT ADJUSTMENTS**

37A Snowthrower

1. Attach the snowthrower and raise just until the stop arm touches the upstop on the mounting plate on snowthrower (serial no. 300001- ). Lift till the chute just clears the hood on snowthrower. (Serial no. -300000)

2. Block the snowthrower up in this position.

3. Disconnect the clevis on the lift rod at the secondary lift shaft.

4. Pull the lift lever all the way to the rear (or raised position).

   **NOTE:** When the lift stops, check the control switches have returned to neutral position by turning the key switch on and off. If the lift solenoids click, the switches have not returned to neutral position. Correct by adjusting the stop spacer. If the solenoids do not click, the stop spacer is adjusted properly.

5. Adjust the clevis on the lift rod until the rod can be reattached to the secondary lift shaft.

At this point, turn the clevis onto the rod approximately four complete turns, (this will allow for slack in the linkage). Move the lift control lever forward and attach the lift rod clevis to the secondary lift shaft.

6. Move the control lever to the rear and check that the arm on snowthrower (serial no. 300001- ) just touches the upstop or the chute clears the hood on snowthrower (serial no. -300000).

   Also check that the control switches have returned to neutral, (refer to tractor adjustments).

43 Front Blade

Attach the front blade to the tractor.
1. Lift the blade to transport position and pin it at this position.

2. Disconnect the rear lift rod clevis at the secondary lift shaft. Pull the lift control lever all the way to the rear. When the actuator stops, check to see if the control switches have reached a neutral position by turning the key switch on and off. If the solenoids click, adjust the stop spacer (refer to tractor adjustments).

3. Turn the clevis on the lift rod until it can be attached, then turn the clevis approximately four complete turns further onto the lift rod. Move the control lever forward until the lift rod can be attached to the secondary shaft.

4. After attaching the lift rod, pull the lift lever to the rear, then check the following conditions:
   A. The control switches have returned to neutral.
   B. The transport pin can be removed by hand.

1. When these attachments are on the tractor, the actuator should be able to operate to full stroke. The attachment should not touch the fender deck or frame.

2. If interference is observed, the connecting link between the primary and secondary lift shaft is too short. The proper length is 11.9 inches between the center of the clevis pin holes (refer to tractor adjustments).

3. Tiller

1. Attach the tiller to the tractor. Raise tiller to a transport height of 14 inches from the ground to top of the tine shaft. Block the tiller in this position.
NOTE: The lift link should be attached to the upper hole in the pivot arm on the tractor.

2. Disconnect the lift link from the tiller.

3. Pull the control lever to the rear and check to see the control switches return to neutral position (refer to tractor adjustments). Turn the lift link until it can be reattached to the tiller.

Remove the blocks from the tiller and check the lift height.