



Installing the Spartan L.E.D. Light Bar
(P/N 148-0249 & 148-0250)

Kit Components

Kit 148-0249

QTY.	P/N	Description
1	486-0042-00	Full Beam with Lighted Helmet Light Bar
1	148-0219	Fair-Rite Bracket
1	148-0191	Fair-Rite Round Cable Snap-It Size B
2	418-0010-00	5/16-18 X 1 CARRIAGE BOLT ZC/YEL
8	614-1004-00	11" Standard Cable Tie Rating 50lb
1	614-1005-00	18 Inch Black Cable Tie

Kit 148-0250

1	486-0052-00	Split Beam with Non-Lighted Helmet Light Bar
1	148-0219	Fair-Rite Bracket
1	148-0191	Fair-Rite Round Cable Snap-It Size B
2	418-0010-00	5/16-18 X 1 CARRIAGE BOLT ZC/YEL
8	614-1004-00	11" Standard Cable Tie Rating 50lb
1	614-1005-00	18 Inch Black Cable Tie

Follow reasonable and customary safety precautions. Wear appropriate PPE for the procedure.

Installation

1. Park machine on level surface.
2. Remove key (if equipped).
3. Allow all moving parts to stop and the machine to cool down.
4. Slide the wire loom back to make room for installing the Fair-Rite. *(Figure 1)*
5. The wire will need to pass through the Fair-Rite twice by looping as shown. *(Figure 2)*
6. Make sure the Fair-Rite is 2.5" from the light and close the Fair-Rite locking it into place. *(Figure 3)*



Figure 1



Figure 2



Figure 3

7. Remove and discard the two carriage bolts and nuts from the parking brake pedal. (Figure 4)

Note: The original carriage bolts cannot be reused.

8. Install the Fair-Rite bracket using the two new, 5/16"-18 X 1" carriage bolts and original serrated nuts. Torque to 17 lbs. (Figure 5)

Note: Make sure bracket is mounted straight forward.

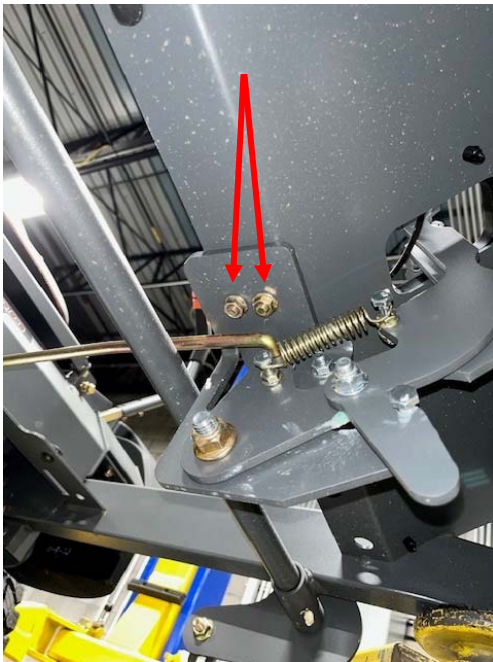


Figure 4

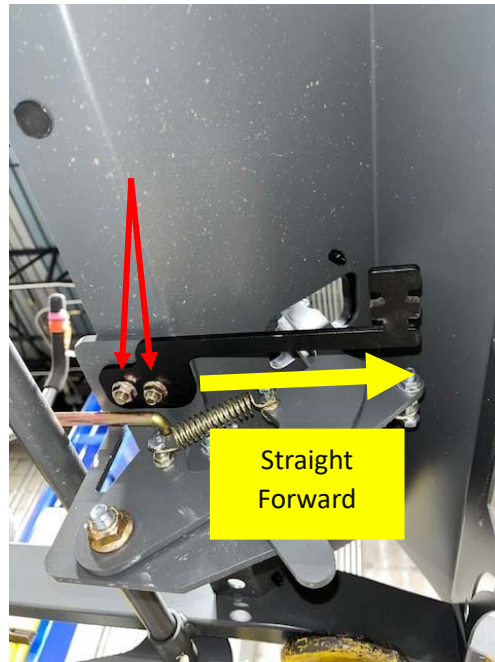


Figure 5

- Using the 2 supplied M8-1.25 X 1" torx bolts, install the L.E.D. Light Bar onto the mower frame. Torque to 25 lbs. (Figure 6)



Figure 6

- Depending on which light is being installed (full beam or split beam), use the large zip-tie to mount the Fair-Rite onto the appropriate notch on Fair-Rite bracket. (Figure 7)
Note: Leave an adequate amount of slack in the harness between the break rod and Fair Rite for brake rod travel. Test before returning to service and adjust as required. (Figure 8)
- Using the smaller zip-tie, secure the harness to the bracket. (Figure 8)

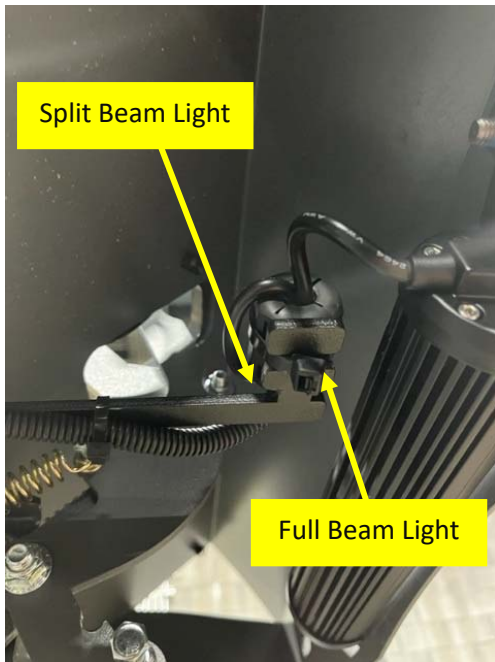


Figure 7

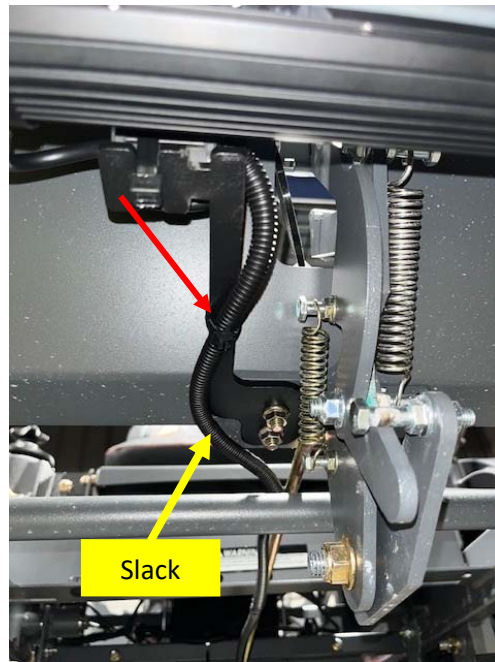


Figure 8

12. With the parking brake released, route the harness down the parking brake rod, securing it with the smaller zip-ties every 8-10". (Figure 9)
13. Using 2 of the smaller zip-ties, secure the harness on both sides of the parking brake bracket. (Figure 10)

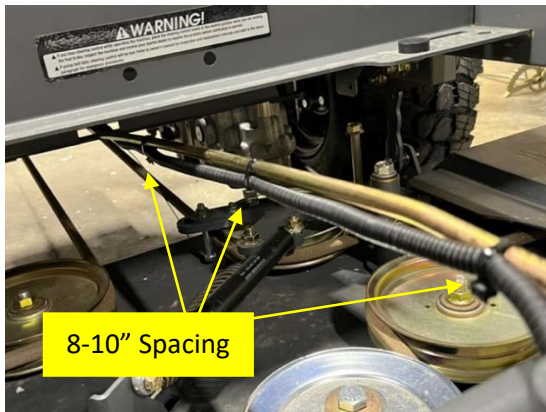


Figure 9



Figure 10

14. Remove the weather cap and connect the light harness into the factory plug located under the cross-member. (Figure 11)
 15. Using the remaining small zip-ties, secure any remaining slack from the light harness to the main mower harness located under the cross-member. (Figure 11)
- Note: If the seat is equipped with a locking cross-member latch, make sure it does not contact the wiring harness when in the down position. (Figure 11)**

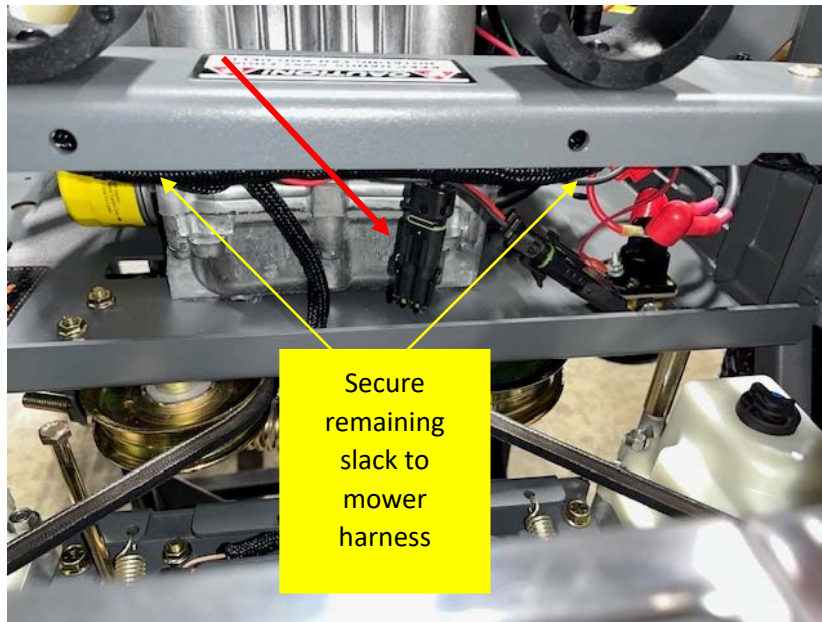


Figure 11

16. After installation, check for clearances with all moving components around the light harness (deck travel, pulleys, and parking brake travel). Test before returning to service and adjust as required.