



Thank you for your purchase of a TNC Combine step system!

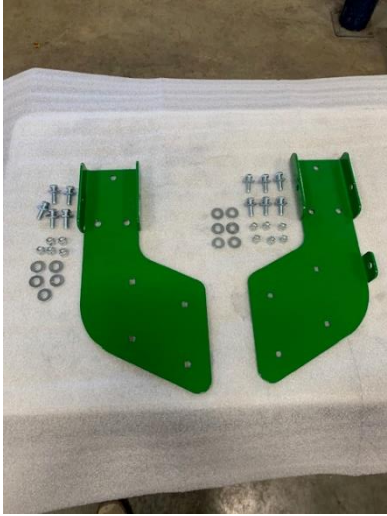
Step 1 Remove existing ladder – your platform should look like picture 1 and ready to accept the new step system. (picture 1 below)



Step 2 Mount Left and right support brackets to existing platform using supplied 3/8" Bolts x 1-1/4" long with a washer mounted on the head and nut side and nylock nut. DO NOT FULLY TIGHTEN HARDWARE AT THIS TIME. (picture 2).

Note- Left bracket – only install top and bottom hardware at this time. (picture 3)

Right Bracket – only install side hardware and bottom hardware leaving top hardware out at this time. (picture 4)



Picture 2 (Left)



Picture 3 (Right)



Picture 4 (left)

Step 3 Install Right hand upright/pivot release with 3/8" hardware. (picture 5,6,7)

- Note : Picture 6- place 3/8" washer as spacer on platform below upright bracket.

Picture 5 (below)



Picture 6 (below)



Picture 7 (below)



- Step 4**
- Tighten 3/8" Hardware starting with the top bolts first. Torque to 26 ft lbs.
 - Note: Left bracket will not have the 3 side bolts installed at this time. These will be added later.
 - Install platform pivot locking mechanism to bottom rotating bracket with stock m6 bolt.

After step 4 your platform will be ready to accept the lower section of the step system. (Picture 8)

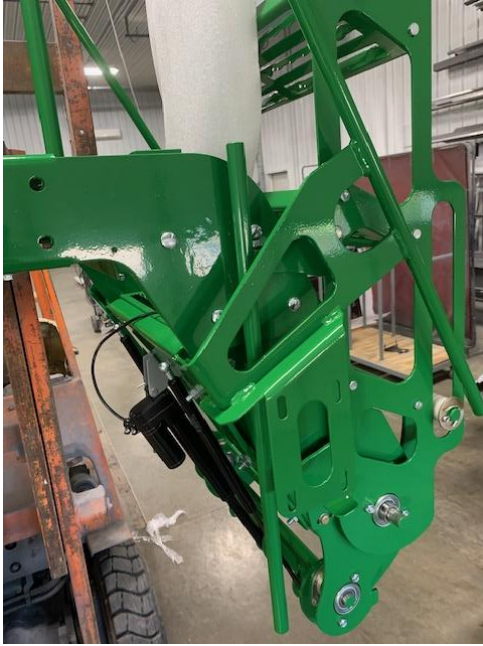
Picture 8 (right)



- Step 5**
- Install strapping to lift step system into position for mounting. You will need qty 8 3/4" long x 5/16" carriage bolts with 5/16" nylock nuts. (torque to 17 ft lbs) Pictures 9 and 10 (below)



- Lift/Position step system bolt holes to platform bracket holes. Install 5/16" hardware.
- Note: Lower step brackets go inside of top platform brackets. Picture 11 (Picture 11 below)



Step 6 Install left handrail.

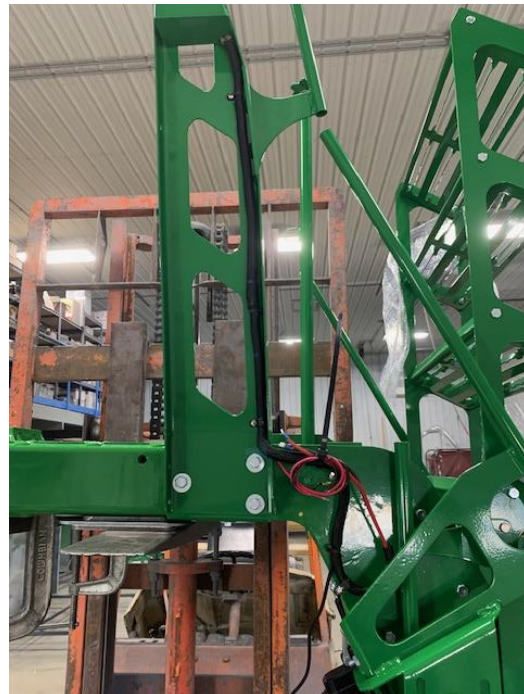
-Remove packaging from left handrail and slide through opening of step system (picture 12)- Careful when sliding through to not pull on wiring harness.

-Mount Left handrail to left platform using 3/8" hardware. (torque to 26 ft lbs) (picture 13)

Picture 12 (below)



Picture 13 (below)



Step 7 Mount/Connect wiring.

You will have 2 sets of wires, One set will be red and black with female terminals that will be connected to the limit switch. Route this wire as seen in (picture 14), and mount wire clips to holes provided in platform with provided 10-24 hardware.

NOTE: The red wire will be connected to the terminal on the limit switch that is furthest away from the combine cab. The black wire will be connected to the terminal that is closest to the combine cab on the limit switch. The middle terminal on the limit switch will not be used.

The 2nd set of wires are your main power wires (red (positive) black (negative)). These wires can be routed through the platform with the wires that supply power to the light on your steps. Be sure to route them and mount them in a manner that avoids any possible damage to the wires.

You will need to connect the positive and negative wire to a 12v power source on your combine. (power draw is 6 amps) These steps will be supplied with 10' of 12ga wire, pending the 12v power source of your choosing you may add wire length at your discretion. The step system is equipped with its own auto reset circuit breaker.

It is recommended to place a 10 amp in line fuse at the start of your 12v power source.

Picture 14 (Right)



- Secure wire for actuator using wire clips and 10-24 hardware. Picture 15 (above)
- Mount light and Fire extinguisher using factory hardware on left and right brackets.

OPERATION AND TESTING THE STEP SYSTEM

The Toggle switch on the left handrail will control your steps. The switch has 3 positions. UP/OFF/DOWN.

To lower steps simply flip toggle switch to down position and steps will automatically stop once they complete their revolution.

Note: (BEFORE RAISING STEPS THE FIRST TIME SKIP TO TESTING STEP SYSTEM BELOW)

To Raise steps flip switch to up position and steps will automatically stop when they reach the up position.

Off position- This position of toggle should be used when you are done using the combine for the day.

Steps are to be in the up position while combine is in motion- if steps are in down position while combine is in motion damage to steps can occur.

- Steps are designed for combine operator to face forward while ascending and descending combine cab.

TESTING STEP SYSTEM

The up Limit switch position is set from the factory, but to ensure it maintained its position during install and shipping follow the below steps.

- 1- Flip toggle switch to down position.
- 2- Once steps have completely positioned themselves in the down position switch the toggle switch to up position while watching that lower stair system comes in contact with limit switch and stops in the upright position applying a firm but not excessive amount of pressure on the rubber stops located on the third stair tread.

NOTE: If limit switch is not positioned as above it could cause damage and or failure to the actuator.

Installation support

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