



360 SPRINT™

INSTALLATION INSTRUCTIONS
JOHN DEERE GATOR 825 AND 855



360YIELDCENTER.COM



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PARTS OVERVIEW



TANK MOUNT BRACKETS



BOOM MOUNT



CONNECTION HITCH



WHEEL SPACER ASSEMBLIES



TURNBUCKELS



- | | |
|-----------------------------------|--|
| A STRAIGHT HOSE BARB | H CONNECTOR NIPPLE - 1" |
| B 2" MANIFOLD FLANGE CLAMP | I 1-1/4" TO 1" REDUCER |
| C 2" RUBBER GASKET | J 90 DEGREE ELBOW - 1" |
| D T-BOLT HOSE CLAMP | K 90 DEGREE HOSE BARB FITTING |
| E 90 DEGREE SWEPT FITTING | L 1-1/4" NIPPLE |
| F 45 DEGREE ADAPTER ELBOW | M 1-1/4" 90 DEGREE ELBOW |
| G 2" CAMLOCK CAP | N 1/4" O.D. PUSH-TO-CONNECT COUPLER |



- | | |
|------------------------------|------------------------|
| O STRAIGHT 1/2" PIN | S 1-1/2" PULLEY |
| P HAIRPIN CLIP | T 3" PULLEY |
| Q 5/8" X 3" HITCH PIN | U LYNCH PIN |
| R 3/4" X 4-1/2" PIN | |

STEP 1 | REMOVE GATOR BED

NOTE If you have an electrical actuated bed, unplug electrical harness from actuator. Zip tie electrical harness out of the way.

FIGURE 1

STEP 1A Disconnect and remove the actuator ①.

STEP 1B Disconnect tail light wiring ② from gator bed.

STEP 1C If installed, remove the safety lockout bar from the front of the bed by taking out the two bolts. Set aside for reinstallation of gator bed.

STEP 1D Using an 18 mm socket and wrench, remove the two bolts ③ that secure the bed to the gator and remove the gator bed.

FIGURE 3

STEP 1E Reinstall the two bolts previously removed ④.

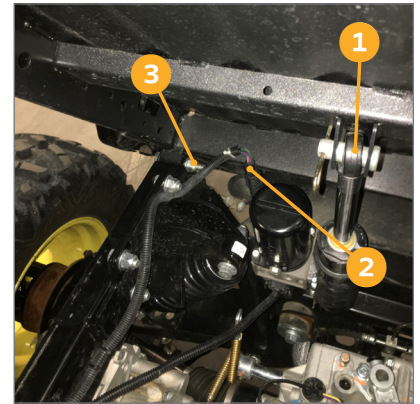


FIGURE 1

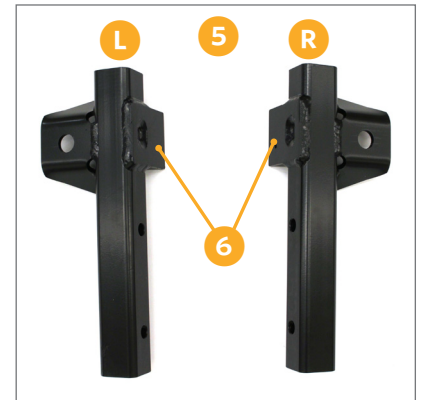


FIGURE 2

STEP 2 | INSTALL TANK MOUNT BRACKETS (PART #530412)

FIGURE 2

NOTE Left and right are determined from the driver's seat. Determine left and right tank mount brackets by placing the tank mount brackets ⑤ with the vertical stop ⑥ to the inside and towards the front.

STEP 2A Remove bolts from the rear of the frame and retain for putting the bed back together.

FIGURE 3

STEP 2B Align the holes on the tank mount bracket with the holes in the gator frame. Using hardware kit#530341, insert (2) M12 bolts with washers through the tank mount bracket and gator frame. Secure with washers and nyloc nuts ⑦.

STEP 2C Repeat on right side.

NOTE Ensure OEM tail light harness is in an easily accessible location. It will be connected to harness at a later step.



FIGURE 3 | LEFT SIDE SHOWN

STEP 3 | INSTALL WHEEL SPACER ASSEMBLIES

- NOTE** Spacers are required on the original axles to center the gator in the rows. (The system was designed on a 60" center for 20" and 30" rows. For use with other row spacing please call product support.)
- NOTE** When removing and reinstalling wheel assemblies, refer to OEM operators manual for wheel bolt torque values and installation guidelines.

FIGURE 4

- NOTE** It is recommended to adjust the front and rear coil tension on the suspension to the heaviest setting ⑧ using the factory supplied spanner wrench.

- STEP 3A** Remove rear wheel assemblies.

FIGURE 5

- STEP 3B** Install (10) 7/16" x 3/4" bolts to secure 4" spacers ⑨ to the rear axle hubs. Tighten with 19mm socket. Torque bolts to OEM spec.

- STEP 3C** Reinstall the rear wheel assemblies using the OEM bolts. Torque bolts to OEM spec.

- STEP 3D** Remove front wheel assemblies.

FIGURE 6

- STEP 3E** Install (10) 7/16" x 3/4" bolts to secure 4" spacers ⑩ to the front axle hubs. Tighten with 19mm socket. Torque bolts to OEM spec.

- STEP 3F** Reinstall the front wheel assemblies using the OEM bolts. Torque bolts to OEM spec.

STEP 4 | CONNECT HITCH MOUNT ASSEMBLY

FIGURE 7

- STEP 4A** Slide hitch mount assembly ⑪ into the rear 2" receiver. Align the rear hole in the mount assembly with the pin hole on the gator receiver.

- STEP 4B** Install the provided 5/8" pin through both pieces and secure with hairpin ⑫.

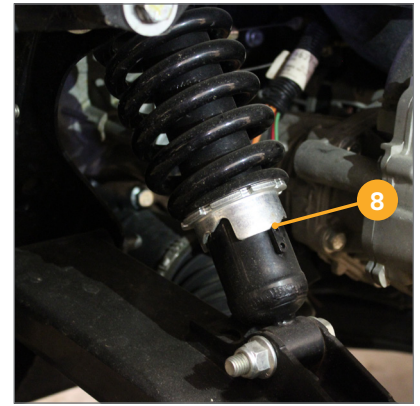


FIGURE 4

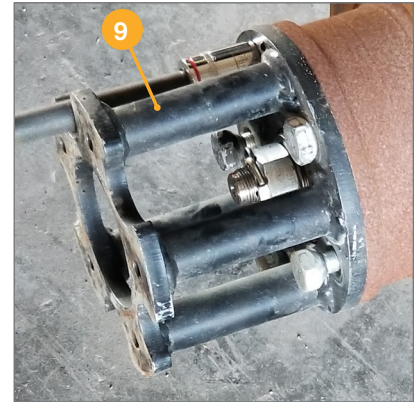


FIGURE 5



FIGURE 6

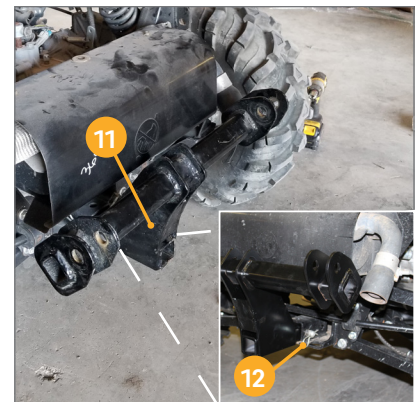


FIGURE 7

STEP 5 | INSTALL WHEEL ASSEMBLIES

NOTE When removing and reinstalling wheel assemblies, refer to OEM operators manual for wheel bolt torque values and installation guidelines.

FIGURE 8

STEP 5A While the SPRINT tank frame is still on the shipping pallet, remove the (5) 7/16" nuts **13** from the hub of the axel on the SPRINT tank frame.

FIGURE 9

STEP 5B Install the gator wheel assemblies **14** (that were purchased separately) onto the hub studs and secure them with the previously removed nuts. Tighten with $\frac{3}{4}$ " socket and torque to OEM specs.

NOTE To install the wheel assemblies, the SPRINT tank frame may need to be lifted.

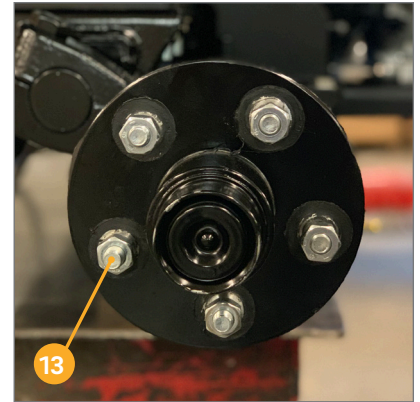


FIGURE 8



FIGURE 9

STEP 6 | INSTALL SPRINT TANK FRAME

FIGURE 10

STEP 6A Attach turnbuckle 15 to the welded bracket on the side of the SPRINT tank frame. Slide $\frac{3}{4}$ " x 4-1/2" pin 16 through the bracket holes and turnbuckle. Secure with lynch pin 17.

STEP 6B Repeat on the other side.

FIGURE 11

STEP 6E From hardware kit 530860, slide small bushing 18 inside of the large rubber bushing 19.

FIGURE 12

NOTE There will be two large washers in each hardware kit but only one large washer will be used on each side.

STEP 6E Roll the SPRINT tank frame forward onto the gator bed. With SPRINT tank frame resting on the gator frame, secure tank frame to gator frame using $\frac{1}{2}$ " bolt, spacers, and washers from hardware kit 530860 in the following order:

Bolt 20

Small Metal Washer 21

Tank Frame Bracket 22

Large Washer 23

Large Rubber Bushing with steel standoff facing down 19

Attachment Bracket 24

Small Rubber Spacer 25

Small Metal Washer 21

Nyloc Nut 26

STEP 6E Tighten with $\frac{3}{4}$ " socket and wrench.

STEP 6F Repeat on the other side.

FIGURE 13

STEP 6C Attach the other end of the turnbuckle to the arm on the hitch mount assembly using $\frac{3}{4}$ " x 4-1/2" pin and secure with lynch pin 27.

STEP 6D Repeat on the other side.

NOTE When the SPRINT tank is full, there should be approximately 40% of the gross vehicle weight on the SPRINT axel (rear axle).

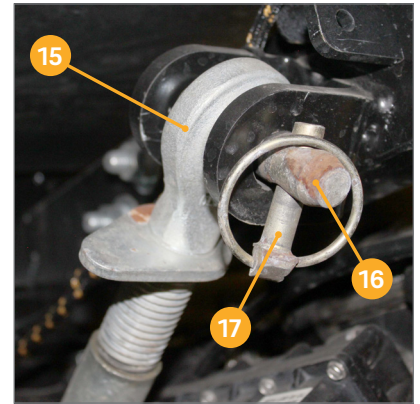


FIGURE 10



FIGURE 11

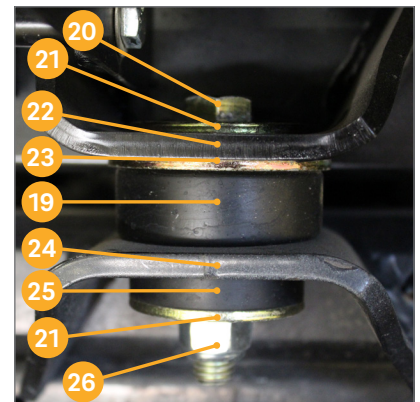


FIGURE 12

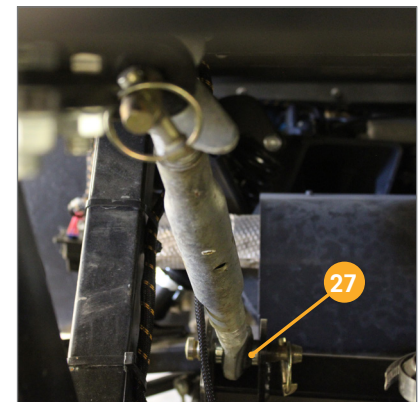


FIGURE 13

STEP 7 | INSTALL BOOM MOUNT (PART #530694)

NOTE Before continuing, remove any attachments from front of gator.

FIGURE 14

STEP 7A Secure winch bracket **28** to boom mount **29** with supplied 3/8"x2" u-bolts, 3/8" washers and nuts **30** from hardware kit #530812. Tighten with 9/16" socket.

FIGURE 15

STEP 7B Slide bottom tube **31** of boom mount into the receiver **32** on the front of the gator ensuring the winch mount slides into the area between attachment brackets. Install 5/8"x3" hitch pin **33** through the front hole on the receiver and secure with hairpin clip.

FIGURE 16

STEP 7C Secure the top of the boom mount to the front of the gator using the attachment bracket. Using hardware kit #530811 install (2) 1/2" x 1-1/4" flange bolt **34** through attachment bracket and boom mount. Secure with 3/8" washer and nylock nut on the inside. Tighten with 3/4" socket and wrench.

STEP 7D Repeat on the other side.

STEP 7G Install 1/2" x 3" bolts in the holes on the front of the boom mount. These bolts are used as a bottom stop for the boom. Thread them in to desired boom travel.

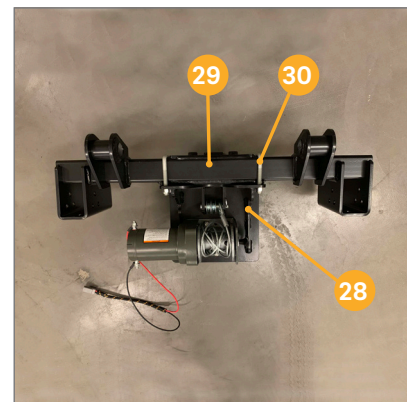


FIGURE 14

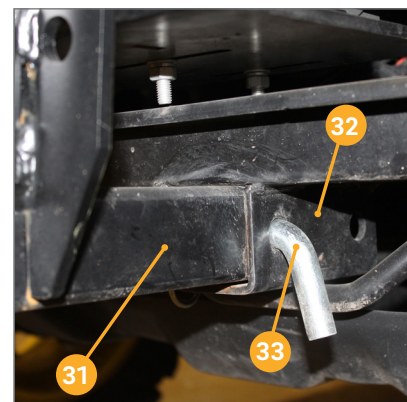


FIGURE 15



FIGURE 16

STEP 8 | INSTALL BOOM

STEP 8A Remove pins from boom pivot mount brackets.

FIGURE 17

STEP 8B Align pivot mount brackets on boom 35 with those on the boom mount 36. Slide 1"x 4" pin 37 through both pieces to secure them together. Insert lynch pin 38.

FIGURE 18

STEP 8C Install pressure gauge 39 on the tee fitting using Teflon tape and 9/16" wrench.

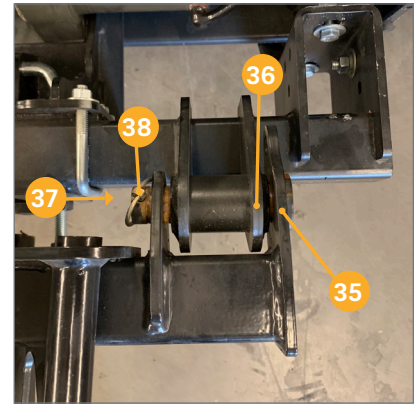


FIGURE 17

STEP 9 | ROUTE WINCH CABLE

FIGURE 19

STEP 9A Ensure you are holding the spool steady so it does not spin freely. Pull the manual winch release handle 40 out, this puts the winch in free spool mode.

FIGURE 20

STEP 9B Pull the cable out until you have approximately 2 feet of cable. Reengage the winch by pushing the lever back in. Make two loops with the cable bringing the eyelet on the cable to the base of the winch 41. Keep the loops in order, first loop to the left 42 and second loop to the right 43.

NOTE Looking from the top facing the cab your first loop should be on the left and second loop should be on the right.

STEP 9C Starting with the (2) 3" diameter pulleys, place the loops just made around each pulley, ensuring the left loop is in the pulley on the left 42 and the right loop is in the pulley on the right 43. Install the pulleys between the attachment brackets on the boom with 1/2" pin 44. Secure with hairpin clip.

STEP 9D Using the (2) 1-1/2" pulleys, secure the bottom of the cable loops. Keep the first loop on the left and the second loop on the right. Align pulleys with attachment brackets on the winch and align the cable eyelet between the right hand pulley and the attachment bracket. Install 1/2" pin through bracket, eyelet and pulleys. Secure with hairpin clip.

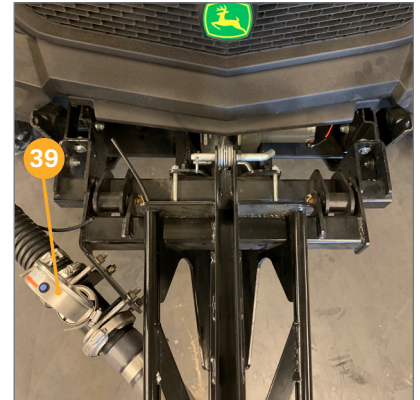


FIGURE 18

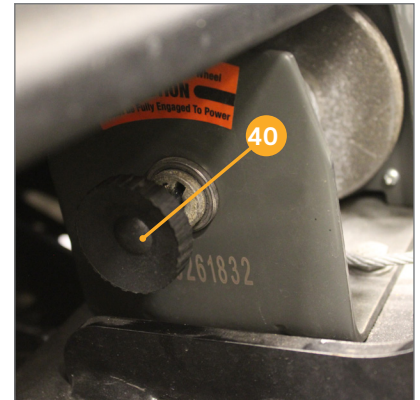


FIGURE 19

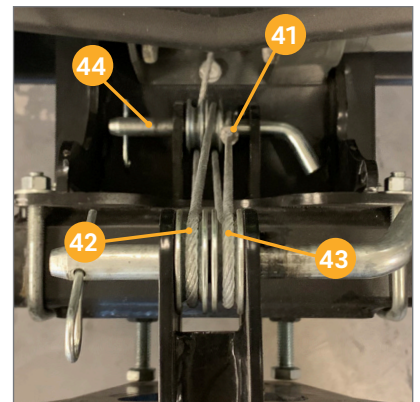
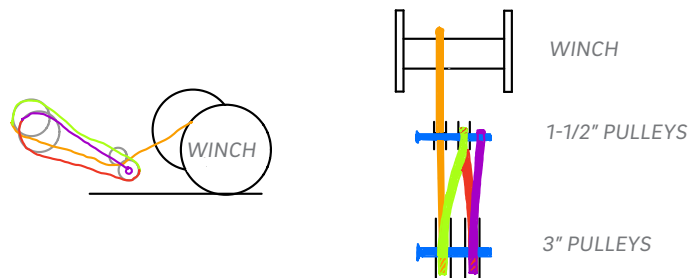


FIGURE 20

STEP 10 | ROUTE PLUMBING TO BOOM

NOTE Remove fog light if installed on the right side.

FIGURE 21

STEP 10A Attach straight hose barb to the tee on the electric on/off valve (attached to right side of the SPRINT tank frame) 45. Secure with 2" manifold flange clamp and 2" rubber gasket. Tighten with 5/16" nut driver. Secure 23' hose to barb with t-bolt hose clamp and tighten with 7/16" socket.

STEP 10B Route hose to the front of the SPRINT tank frame. Cut the hose to length (use a length that will be convenient for disassembly of SPRINT frame from gator).

STEP 10C Use (2) hose barb to flange fittings and connect together with 2" manifold flange clamp and 2" rubber gasket. Tighten with 5/16" nut driver 46.

STEP 10D Secure cut hose to hose barb with hose clamp (t-bolt clamp) and tighten with 7/16" socket.

STEP 10E Attach the remainder of the 23' section of hose to the hose barb and secure with t-bolt hose clamp and tighten 7/16" socket.

STEP 10F Route hose under the floor board and secure with p-clamps.

FIGURE 22 & 23

STEP 10G Route hose through wheel well and up and over the a-arms on the interior side of the shock 47 and out the fog light hole 48 to the pressure guage tee fitting on the boom 49. Cut the hose to length.

NOTE Check turn radius on the tires where hose is installed.

STEP 10I Attach hose barb to flange fitting to the tee fitting with 2" manifold flange clamp and 2" rubber gasket. Tighten with 5/16" nut driver.

STEP 10J Attach the hose with t-bolt clamp and tighten with 7/16" socket.

NOTE Ensure to leave slack for boom movement up and down.



FIGURE 21

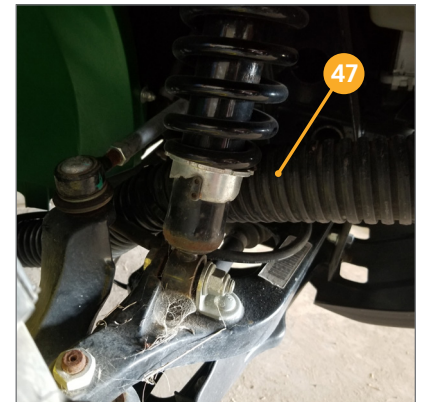


FIGURE 22



FIGURE 23

STEP 11 | ROUTE AIRLINE HOSE

FIGURE 24

STEP 11A Using the ¼" air hose that is coiled on the right hand fender, cut the hose at the cab and install a ¼" O.D. push to connect coupler. Install the remainder of the hose into the other side of the coupler 50. Route hose along the 2" liquid hose you just installed, over the cab. Zip tie to hose along the way.

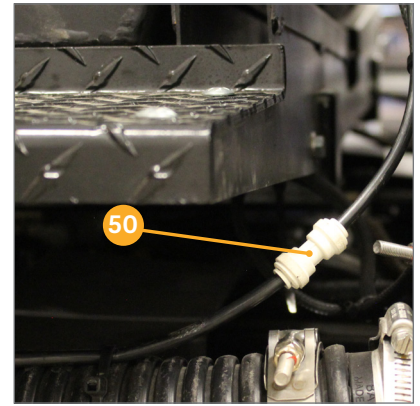


FIGURE 24

FIGURE 25

STEP 11B Route the hose to the front pressure gauge tee, trim the hose to length. Attach the hose coming out of the end of the boom with the hose previously cut using ¼" O.D. push to connect coupler 51.

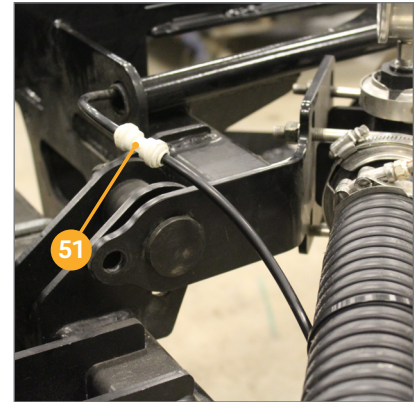


FIGURE 25

NOTE The couplers allow the SPRINT frame and boom to be removed from gator without removing all of the plumbing.

STEP 12 | INSTALL TANK VENT AND FILL PORT

NOTE Apply thread sealant to ALL flange fittings prior to install.

FIGURE 26

STEP 12A Using 530736 tank vent assembly kit, install 1-1/4" to 1" reducer 52 into the 1-1/4" tank bung on top of tank. Assemble 1" x 4" connector nipple 53 into reducer. Install 90 degree elbow 54 on the top of the connector. Thread 90 degree hose barb fitting 55 onto the elbow.



FIGURE 26

STEP 12B Secure 1" EPDM hose onto hose barb with supplied hose clamp and use 5/16" nut driver to tighten. Route hose to the right side of the tank and down the side behind the 360 SPRINT decal plate. Along the tank frame to the underside of the axle and trim to length. Secure hose to the tank frame with zip ties 56.

STEP 12C Install 1-1/4" nipple & 1-1/4" 90 degree elbow to the tank vent line bung on the inside of the tank. This helps prevent sloshing into the vent line.

FIGURE 27

STEP 12D Install 45 degree elbow 57 into the fill port on the left side of the tank and 2" camlock cap 58.



FIGURE 27

STEP 13 | INSTALL CONTROLL PANEL

FIGURE 28

STEP 13A Fasten the u-bolt mount on the handle bar in the gator cab. Secure nuts on u-bolts with 7/16" socket 59. Use ram extension 60 to mate the handle bar mount to the ball mount of the control box.

STEP 14 | ROUTE MAIN HARNESSING

FIGURE 29

NOTE: Before routing any harnessing, ensure the red electrical disconnect switch 61 has been removed to turn off power to the harnesses.

STEP 14A On harness 530638, attach the eyelet of the black wire to the ground (negative terminal) on the battery 62. Attach the eyelet of the red wire 63 to the positive power terminal on the battery.

STEP 14B On the front left hand of the SPRINT tank frame, remove wiring harness from plastic bag. Connect 14pin cab connector to harness 530415 (connected to control panel) for power to the control box.

NOTE It may be helpful to route the harness under the center console and behind the backside of the driver's seat.

STEP 14C Route the remaining harness with two connectors along the front of the tank frame between the cab and SPRINT system. Connect the 2 pin receptacle to the battery harness plug previously installed.

FIGURE 30

STEP 14D Connect the winch extension harness 530516 to the plug connector on the main harness and route it along the 2" liquid hose to the front of the cab. Route under the hood and connect to mating winch harness 64. Secure harness along the way with zipties.

NOTE For later model gators, 8" tail light adapter harness will not be needed.

FIGURE 31

STEP 14E Attach factory tail light harness to SPRINT tail light harness found along Sprint frame on each side 65.

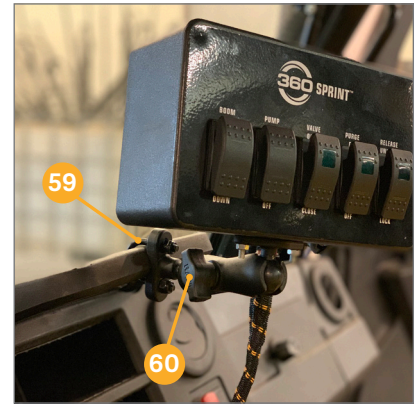


FIGURE 28

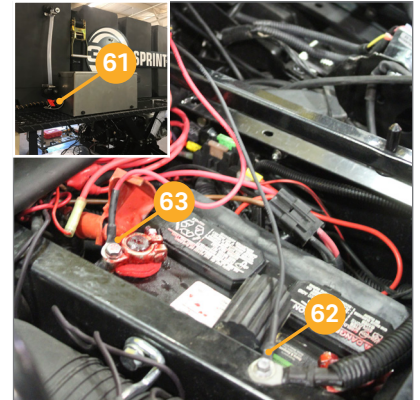


FIGURE 29

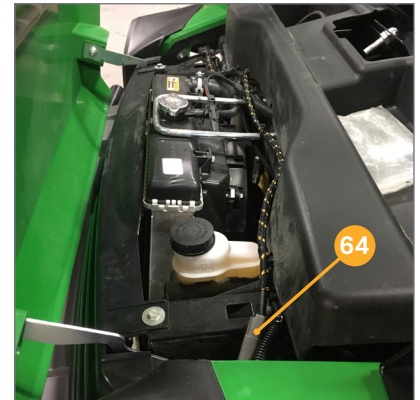


FIGURE 30



FIGURE 31

STEP 15 | MOUNT PLANTER FUNNEL

JOHN DEERE PLANTER

FIGURES 32 - 35

STEP 15A Remove the four bolts on the faceplate of the row unit and discard. Install the funnel mount plate (530708) on the face plate using the hardware provided in kit 530815 **66**.

NOTE If row cleaners are installed, position the funnel mount plate between the row unit faceplate and the row cleaners.

STEP 15B Remove the top/outside bolt from the parallel arm **67**. Retain one bushing. Utilizing 5/8" x 3-1/2" bolt, large bushing **68**, and nut from hardware kit 530815, reconnect parallel arm with "step down" bushing on the outside (large end closest to parallel arm).

NOTE Ensure that the check valve arrow is pointing in the direction of flow.

STEP 15C Hang funnel from bushing **69** and secure to funnel mount plate with 1/2" x 5" carriage bolt, lock washer, and threaded knob **70**.

STEP 15D Install fittings onto funnel in this order; camlock fitting **71**, check valve **72**, barbed fitting **73**. Secure each fitting together with 2" rubber gasket **74** and 2" manifold flange clamp **75**. Tighten with 5/16" nut driver.

STEP 15E Install the hose to the barbed fitting and secure with t-bolt hose clamp **76**. Tighten with 7/16" socket.

FOR INSTALLATION ON A CASE IH PLANTER, SEE NEXT PAGE



FIGURE 32



FIGURE 33

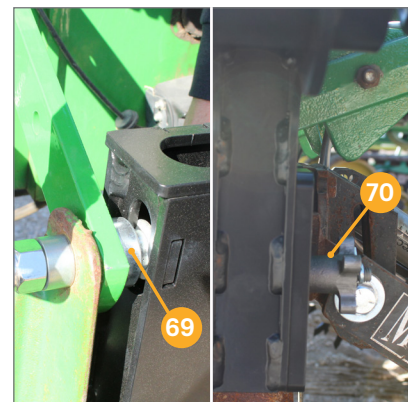


FIGURE 34



FIGURE 35

STEP 15 | MOUNT PLANTER FUNNEL

CASE IH PLANTER

FIGURES 36-39

STEP 15A Remove the two bolts 77 on the front of the row unit. Install the funnel mount bracket on the front of the row unit using the (2) 1/2"x3-1/2" bolts with washers and nuts provided in hardware kit 530859.

NOTE If row cleaners are being used, they must be removed to install the funnel mount break. The row cleaners can then be reinstalled on the funnel mount bracket using the previously removed hardware.

STEP 15B Remove the top/outside bolt from the parallel arm 78. Utilizing 1/2" x 3" bolt, large bushing 79, and nut from hardware kit 530859, reconnect parallel arm with "step down" bushing on the outside (large end closest to parallel arm).

NOTE Ensure that the check valve arrow is pointing in the direction of flow.

STEP 15C Hang funnel from bushing 80 and secure to funnel mount bracket with 1/2" x 5" carriage bolt, lock washer, and threaded knob 81. Carriage bolt should be installed from the back, going through the funnel mount bracket first and then the funnel.

STEP 15D Install fittings onto funnel in this order; camlock fitting 71, check valve 72, barbed fitting 73. Secure each fitting together with 2" rubber gasket 74 and 2" manifold flange clamp 75. Tighten with 5/16" nut driver.

STEP 15E Install the hose to the barbed fitting and secure with t-bolt hose clamp 76. Tighten with 7/16" socket.



FIGURE 36

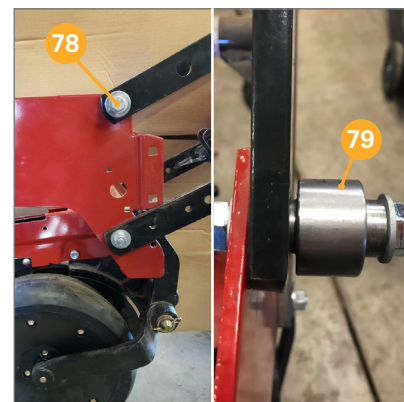


FIGURE 37



FIGURE 38



FIGURE 39