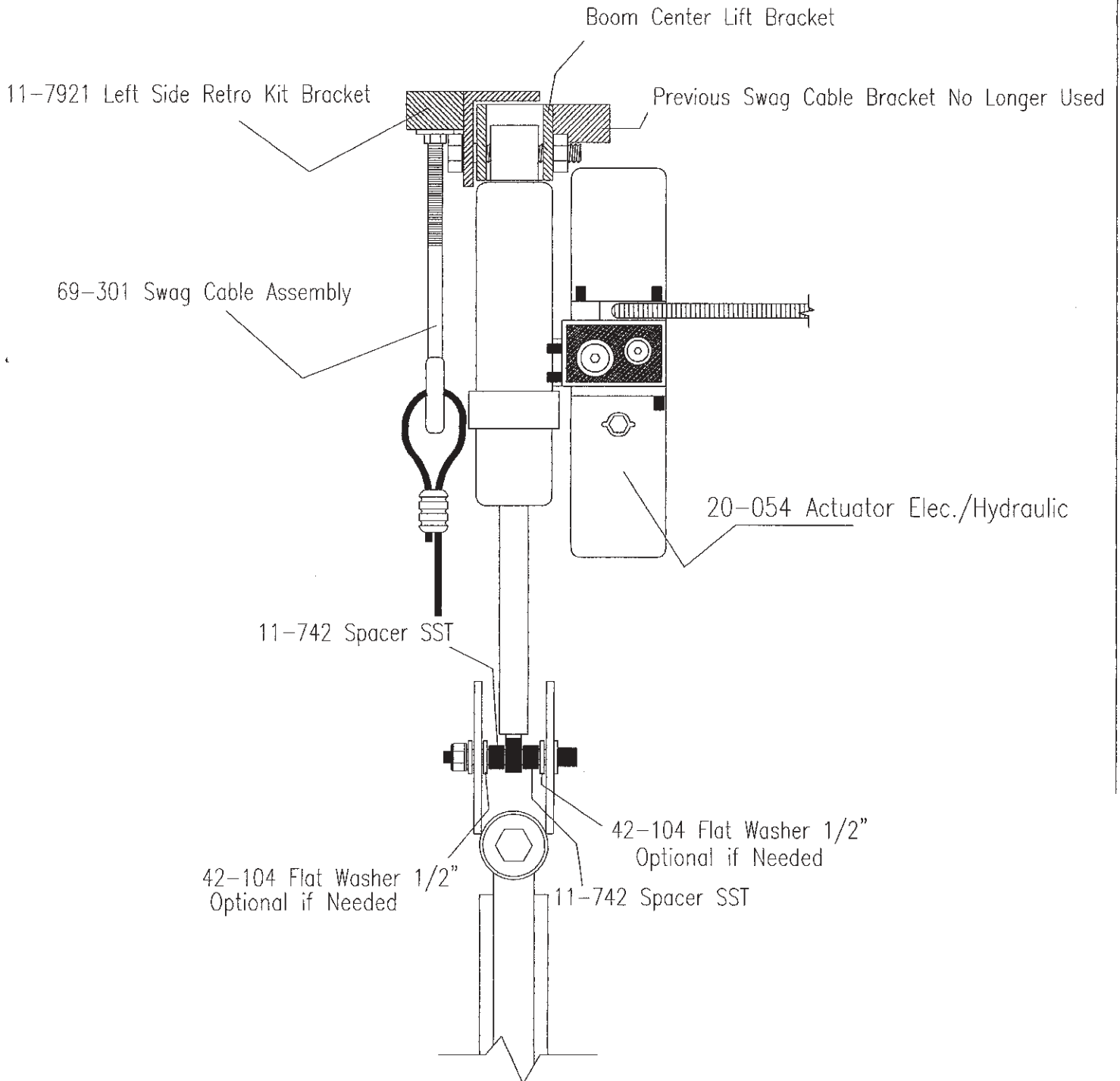


**SDI Retro Fit  
 Mounting #20-054KIT**

11/16/11jj

**Detail A - Left side of boom**  
 Top view looking straight down:



**SDI Retro Fit**  
**Mounting #20-054KIT**

## Retro-Mounting Installation Instructions Retro Fit Kits #20-054, 20-054L and 20-054R

- 20-054KIT - for installing both sides.
  - Kit contains:
    - 1 Each 20-054 Hydraulic Actuator
    - 1 Each 20-054 Hydraulic Actuator
    - 1 Each 11-7921 left side swag cable adapter bracket
    - 1 Each 11-7922 right side swag cable adapter bracket
    - 4 Each 11-742 Stainless Steel Spacers
    - 4 Each 42-104 1/2" Flat Washers
- 20-054KITL - for installing on the left side only.
  - Kit contains:
    - 1 Each 20-054 Hydraulic Actuator
    - 1 Each 11-7921 left side swag cable adapter bracket
    - 2 Each 11-742 Stainless Steel Spacers
    - 2 Each 42-104 1/2" Flat Washers
- 20-054KITR - for installing on the right side only.
  - Kit contains:
    - 1 Each 20-054 Hydraulic Actuator
    - 1 Each 11-7921 right side swag cable adapter bracket
    - 2 Each 11-742 Stainless Steel Spacers
    - 2 Each 42-104 1/2" Flat Washers

### Removal of old actuator:

1. Park sprayer on level surface.
2. Extend old actuator to fully extended position (if old actuator is operable).
3. **Do Not** remove swag cable yet.
4. Unplug wire harness from actuator.
5. Remove the axle bolt, spacers and washers from the rod end. Keep all hardware - it will be used again when installing the new actuators.
6. Remove the pivot bolt from the fixed end of the actuator - save the bolt and nut - it will be used on the new actuator. Lift out old actuator.
7. The boom wing is now being held up by the swag cable.

### Installation of new actuator:

1. Insert the new actuator in the position of the old actuator with the motor on its side facing to the rear of the sprayer.
2. Install old pivot bolt into the rear of the actuator and through the H-bracket. Install nut - **do not** tighten down.
3. Install old axle bolt with new spacers on rod end. If there is not enough space for the flat washers on the inside of breakaway plates, leave them off. Tighten nut.

### Installation of swag cable adapter bracket:

1. Remove nut from pivot bolt on rear of actuator.
2. Install the bracket for the side you are working on (Refer to Detail A on drawing). The bracket should be fairly flush with the top of the H bracket. Reinstall nut on pivot bolt and tighten.
3. Support the end of the boom wing so it will stay in approximately the same position.
4. Unthread the eye bolt from the back of the old eye bolt bracket.
5. Unbolt the carriage bolt from the opposite end of the swag cable.
6. Using the old carriage bolt and nut, install the swag cable in the square hold on the opposite side.
7. Using the old hardware, install the swag cable into the adapter bracket on the opposite side (towards the front of the sprayer). Run the nut up to where it was on the other side.
8. Remove the support from the boom wing.
9. Using a level on the boom wing, tighten or loosen the nut on the back of the bracket until the level indicates the wing is level. Tighten jam nut.
10. Plug the actuator to the same two wires on the sprayer harness. Make sure the boom moves in the direction it is suppose to. If wing moves in the opposite direction as intended, switch the wires at the actuator.
11. Raise and lower the wing a few times to make sure it is operating correctly.
12. Leaving the wing in the full upright position, move the boom rest fork out to remove all or most of the play in the wing.

**If installing both sides, repeat all of the above instructions.**