WALKER MANUFACTURING CO.

TECHNICAL SERVICES DEPARTMENT
UPGRADE KIT

A35 POWER TILT-UP MH27i, MH37i & MH38i

DIRECTIONS: This kit is designed to be used with models H27i, H37i, & H38i using DR52, DS60 or DR64 decks with adjustable footrests (starting deck S/N 2016-160975 and on).

NOTE: DR52 beginning S/N 163110, DS60 beginning S/N 162997, and DR64 beginning S/N 160975 decks thru S/N 171368, will require a cable saddle kit, P/N 8654-14.

NOTE: When installing this kit onto a model H27i, it is recommended to use MH tail weight kit P/N 2647-11, or 2647-10 as applicable.

NOTE: The A35 Kit is compatible with the MH37i, A35 S/N 2018-0047 and on.

INSTRUCTIONS:

1. Disconnect the battery cables from the battery. Always disconnect the ground (negative) cable first.
2. Raise the tractor off the ground and be sure it is secure.
3. Remove the drive tires. If the tractor is between S/N 140899 and 144944 and equipped with the tire gap seals, cut the LH and RH gap seal mounts at the bend to provide clearance for cables. Unbolt the debris pan from the bottom of the chassis and discard.
4. Disconnect the fuel line and EVAP line from the right hand fuel tank. Unbolt the RH fuel tank saddle and remove the fuel tank and fuel tank saddle from the tractor.
5. Position and align the RH actuator mount template to the existing holes on the bottom of the chassis as shown in Illustration A. Using two (2) 5/16-24x3/4 (F044) hex bolts and two (2) 5/16-24 (F008) keps nuts, bolt the template to the chassis. Using the template as a guide, drill the four (4) holes into the RH side of the chassis using a 1/8 in. drill bit. Remove the template from the chassis. Drill the two (2) forward holes using a 3/8 in. drill bit, and drill the two rearward holes using a 5/16 in. drill bit as shown in Illustration A.

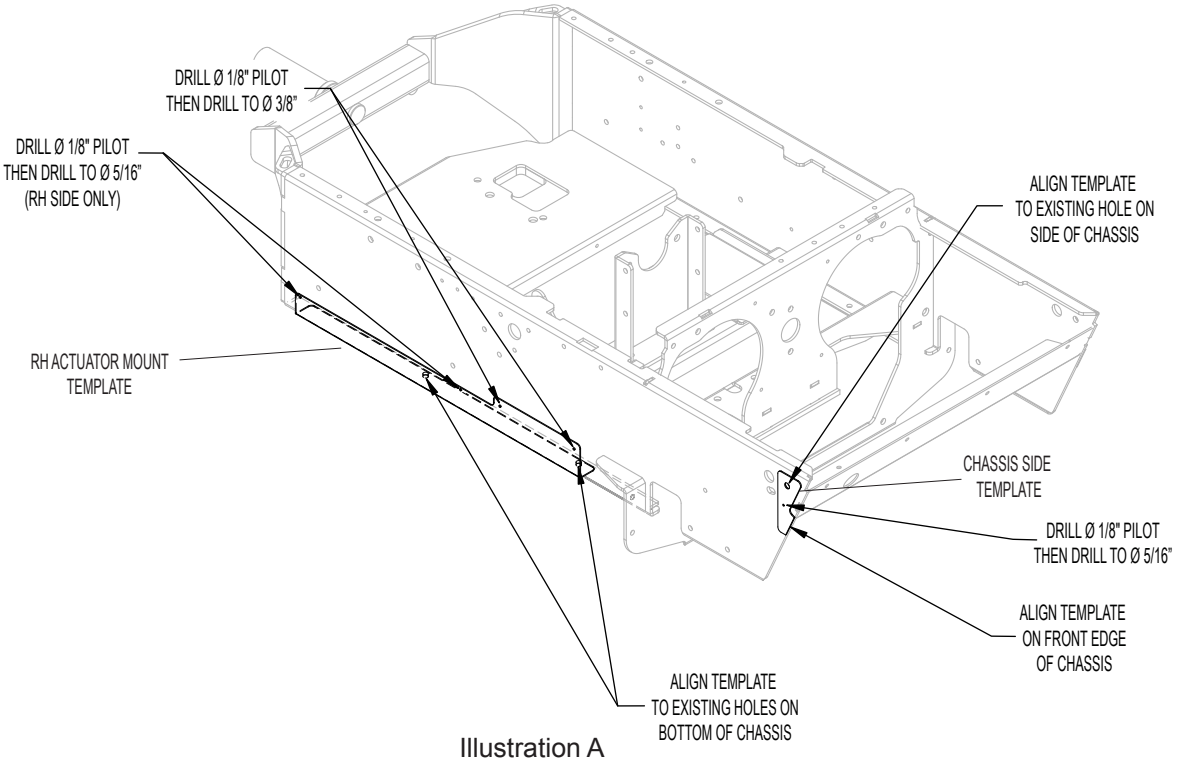


Illustration A

6. Align the chassis side template with the existing hole on the RH side of the chassis and the front edge of the chassis as shown in Illustration A. Clamp the template into place and using the template as a guide, drill using a 1/8 in. drill bit. Remove the template and drill to 5/16 in. Repeat this procedure for the LH chassis side as shown in Illustration B.

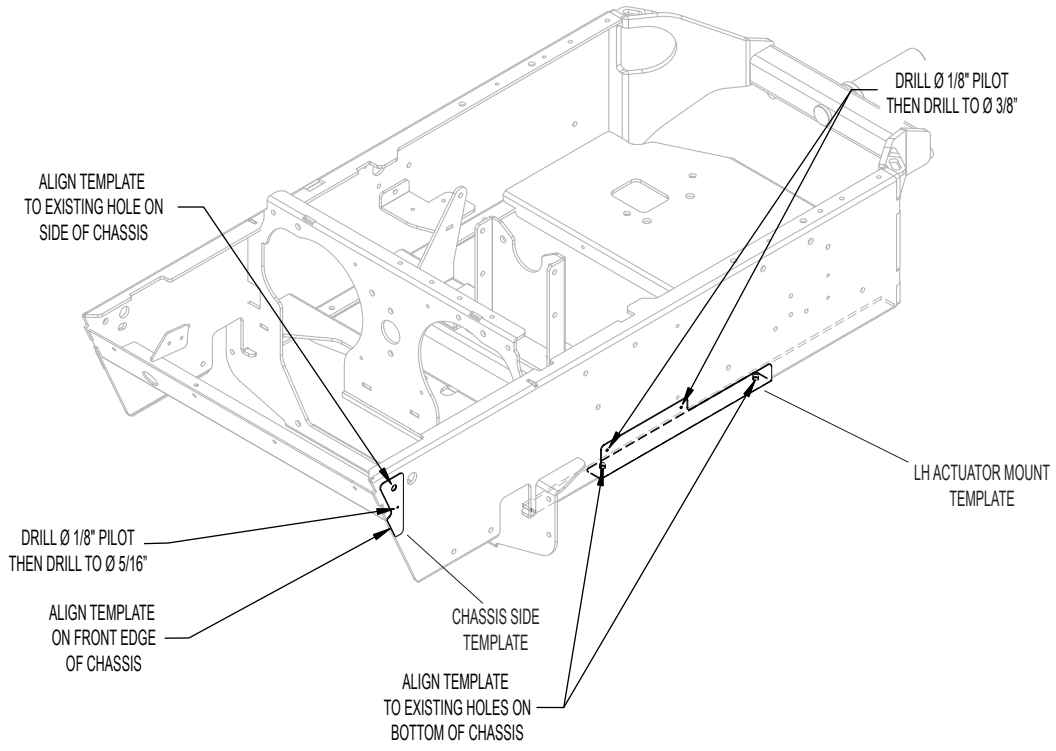


Illustration B

7. Position and align the LH actuator mount template to the existing holes on the bottom of the chassis as shown in Illustration B. Using the hardware that held the debris pan in place, bolt the template to the chassis. Using the template as a guide, drill the two (2) holes into the LH side of the chassis using a 1/8 in. drill bit. Remove the template from the chassis and drill using a 3/8 in. drill bit.

8. If installing on H27i, align the actuator template to the side of the chassis and engine mounting plate and clamp the template to the chassis. Mark and drill the four (4) 1/8 in. pilot holes. Drill the 1/8 in. holes to 3/8 in.

   If installing on H38i, remove the two (2) RH engine mounting bolts. Align the actuator template to the side of the chassis and engine mounting plate and clamp the template to the chassis. The two (2) holes for the engine mounting bolts are already present. Drill the two (2) 1/8 in. holes that are needed for the actuator mount using the template as a guide. Drill the 1/8 in. holes to 3/8 in. Bolt the actuator mount in place using the two (2) 3/8-16 x 1-1/2 (F040) Hex Bolts, two (2) 3/8-16 x 2-1/2 (F388) Hex Bolts (engine mounting bolts), and four (4) 3/8-16 (F013) Whiz Locknuts through the engine mounting holes.

   If installing on H37i, remove the two (2) RH engine mounting bolts. Bolt the actuator mount in place using the two (2) 3/8-16 x 2-3/4 (F389) Hex Bolts through the engine mount holes, 3/8 SAE (F051) Washer on the front F389 Hex Bolt, two (2) F040 Hex Bolts, and four (4) 3/8-16 (F013) Whiz Locknuts through the engine mounting holes as shown in Photo C.

   NOTE: It is recommended to raise the engine from the chassis when drilling these holes as there is a risk of drilling into the bottom of the fuel pump module.

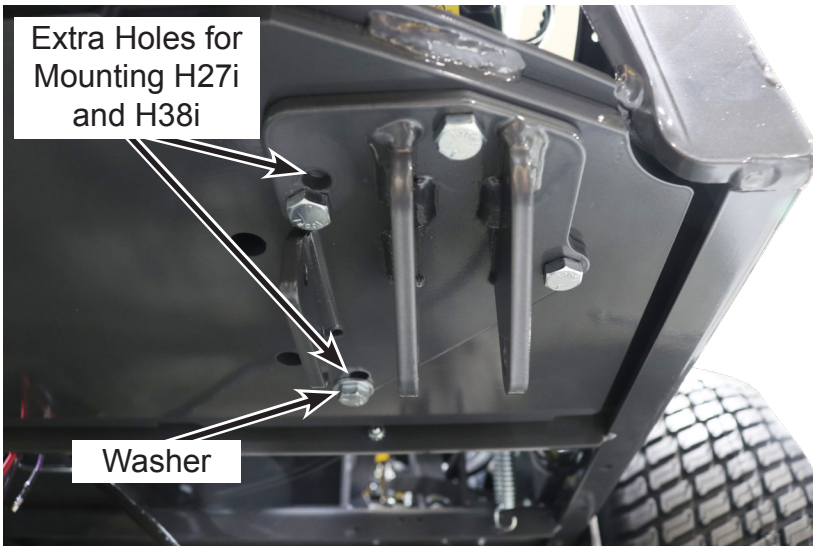


Photo C (H37i Shown)

9. Position the switch template and align the edge of the template against the edge of the bearing mount as shown in Illustration D. Clamp the template into place and drill the three (3) pilot holes using a 1/8 in. drill bit. Remove the template and using a right angle drill, drill the two (2) upper holes using a 3/16 in. drill bit, and the single lower hole using a 1/4 in. drill bit.

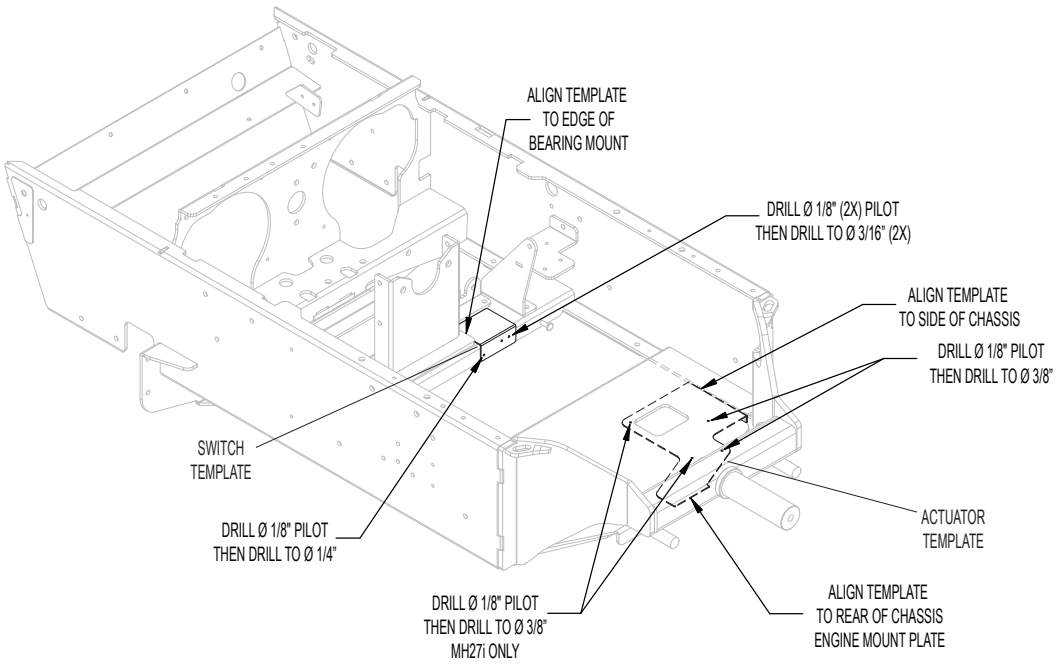


Illustration D

10. Attach the lift arm links (P/N 8654-9) to the torque shaft assembly using clevis pins (P/N 5281-8) and 1/8 x 3/4 (F111) Cotter Pins as shown in Photo E. Now attach the deck lift cables (P/N 8654-2) to the lift arm links using P/N 5281-8 clevis pins and F111 Cotter Pins as shown in Photo F.

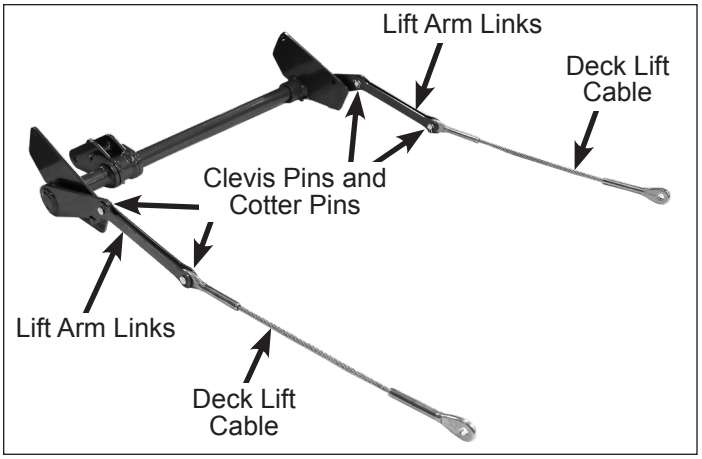


Photo E

Photo F

11. Mount the torque shaft assembly to the chassis using four (4) 3/8-16 x 7/8 (F151) Hex Bolts and four (4) F013 Whiz Locknuts as shown in Photo G.

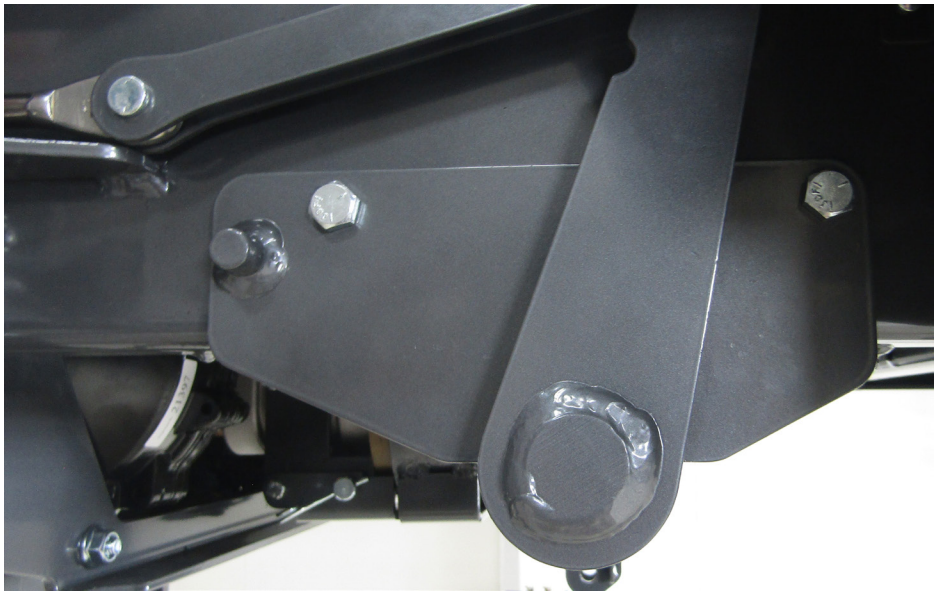


Photo G

12. Remove the existing bolt shown in Photo H and mount the cable guide (P/N 8654-6) to the chassis using a 5/16-18 x 1 (F093) Hex Bolt, 5/16-18 x 1-1/2 (F255) Hex Bolt, two (2) 5/16-18 (F009) Whiz Locknuts, roller sleeve (P/N 8654-8), and cable guide roller (P/N 8654-7). Route the deck lift cable through the cable guide as shown.

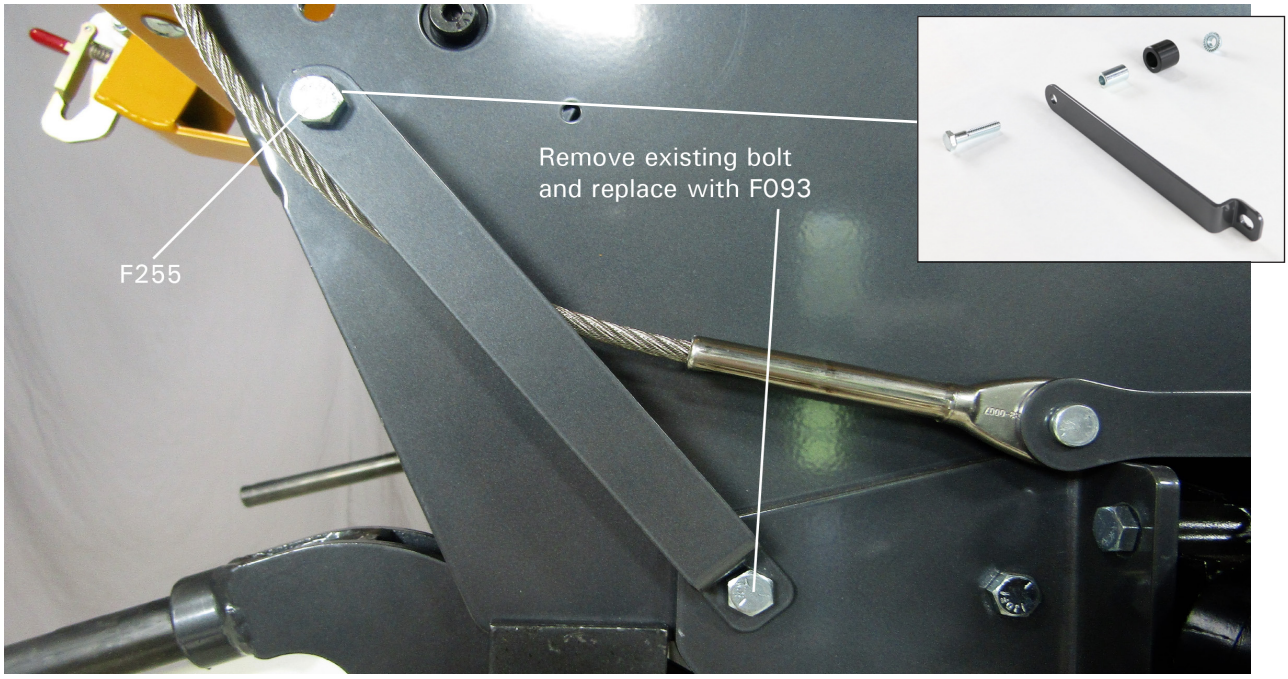


Photo H

13. Using two (2) 1/4-20 x 3/4 (F032) Hex Bolts and two (2) F004 Keps Nuts, fasten the switch mount to the chassis as shown in photo I.

    NOTE: The switch mount comes pre-assembled with momentary switch (P/N 8654-1), toggle switch (P/N 6623), signal horn (P/N 5536-10), relay (P/N 6941-6), and wire harness (P/N 8654-4).

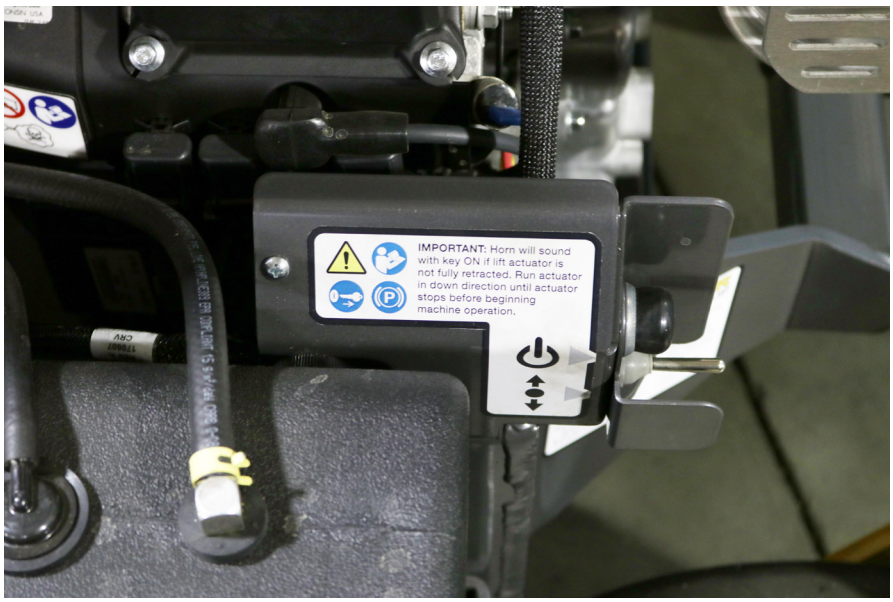


Photo I

14. Using the included splice tap (P/N 8553), splice the included black jumper wire into the purple wire coming from the engine harness as shown in Photo J.

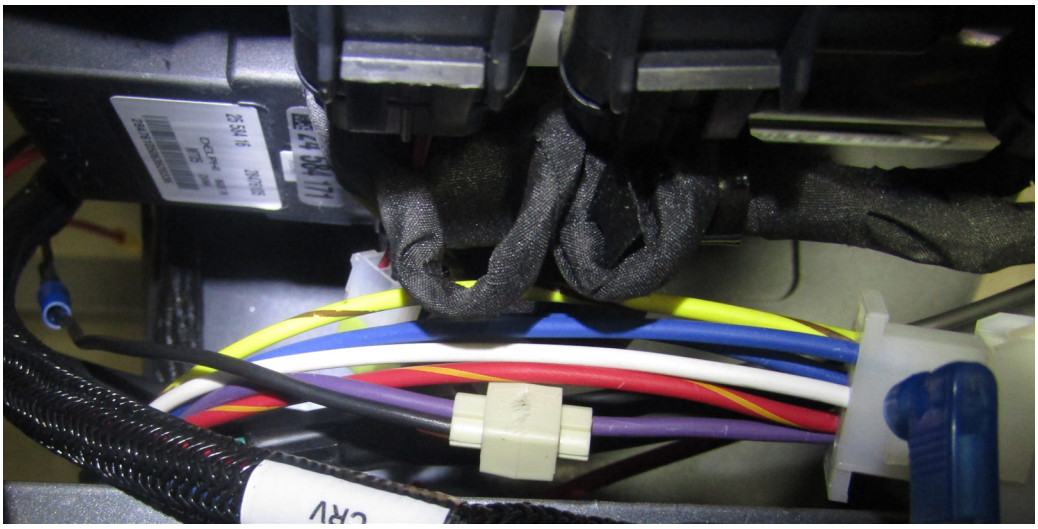


Photo J

15. Route the wire harness (P/N 8654-4) coming from the switch mount, down toward the bottom of the engine. Using the included cable ties (P/N 5975-3) tie the wire harness to the existing cable clamps as shown in Photo K. Plug the purple wire from the wire harness into the black extension wire installed in the previous step.

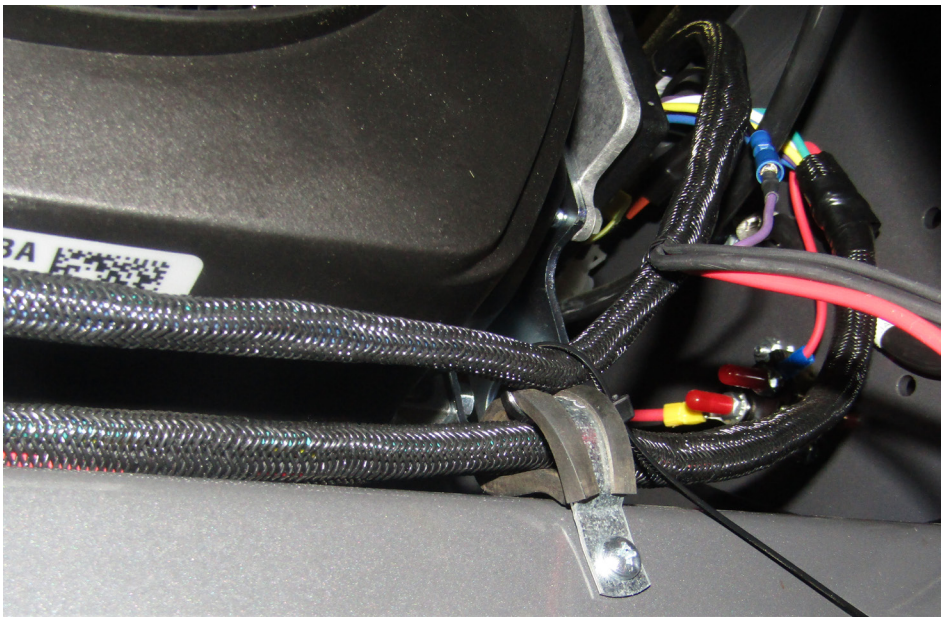


Photo K

16. Using two (2) 6-32 x 7/8 Hex Trim MS SS (F505) Hex Bolts and two (2) 6-32 (F506) Nylock Nuts, fasten the safety switch (P/N 5942-10) to the chassis as shown in Photo L.

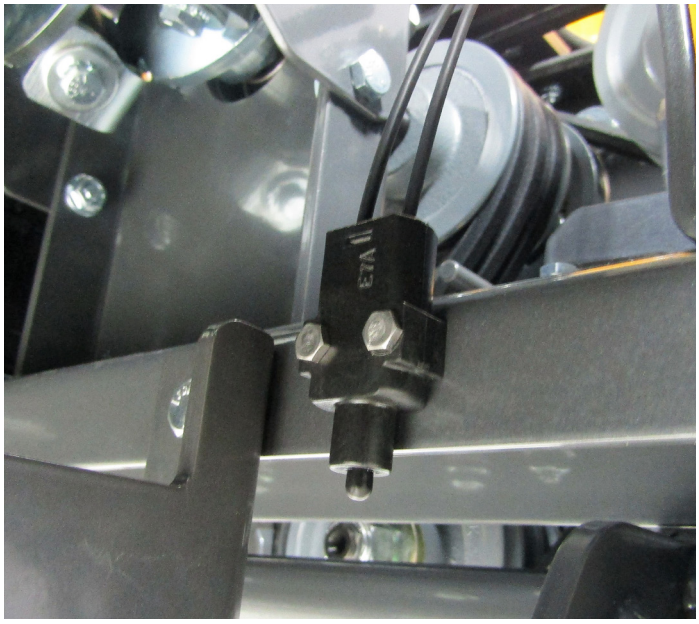


Photo L

17. Install the inner actuator guard (P/N 8654-12). Fasten it to the rear actuator mount using two (2) 5/16-18 x 7/8 (F226) Hex Bolts and two (2) F009 Whiz locknuts and fasten to the chassis using a 1/4-20 x 5/8 (F031) Hex Bolt and a 1/4-20 (F004) Keps Nut as shown in Photo M.

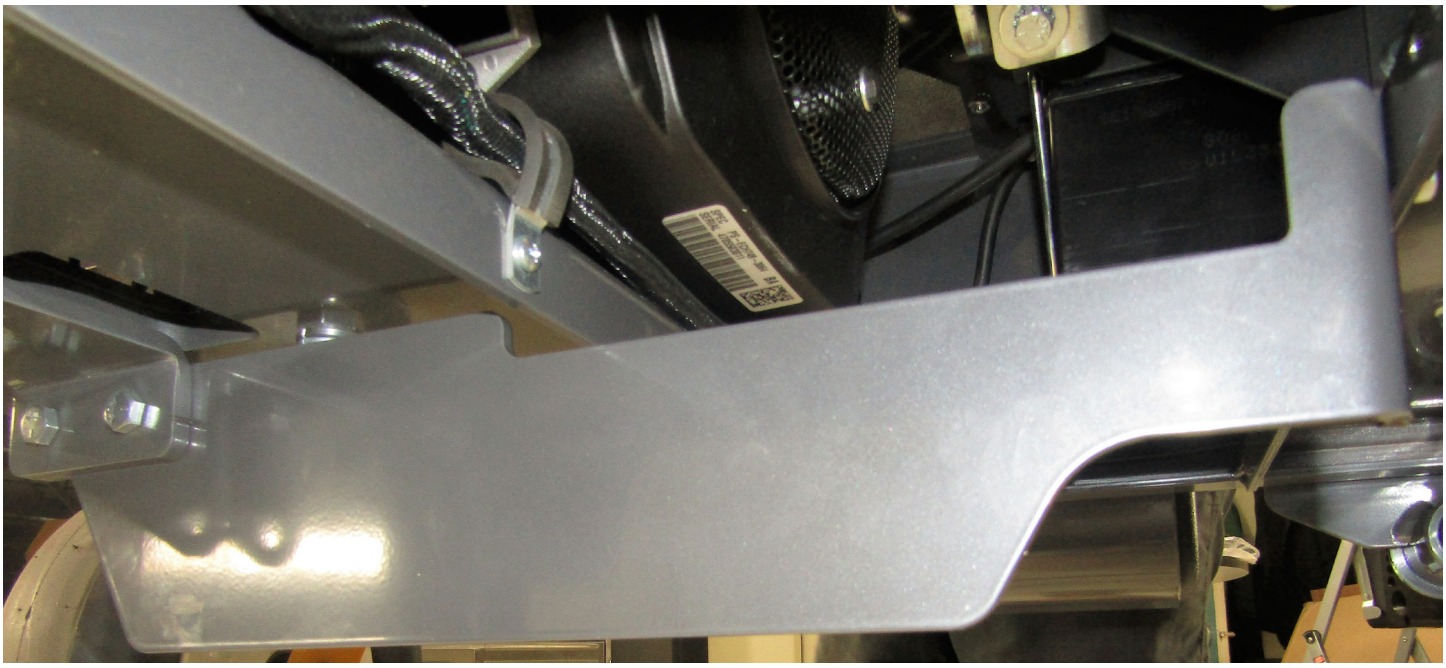


Photo M

18. Mount the linear actuator to the actuator mount (P/N 8654-5) and the torque shaft assembly using two (2) clevis pins (P/N 6621-1) and two (2) bow tie cotter pins (P/N 4407-5) as shown in Photo N. Plug the linear actuator into the wire harness and using the included cable ties (P/N 5975-3), secure the actuator harness as shown in Photo O.

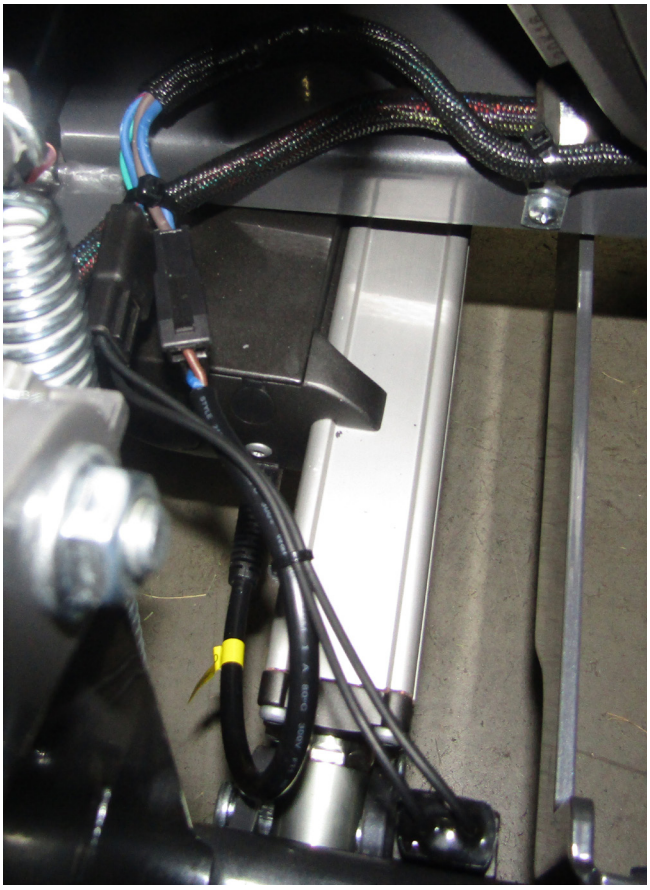


Photo O

19. Fasten the outer actuator guard to the chassis using two (2) F226 bolts and two (2) F009 Whiz Locknuts. Reinstall the fuel tank saddle and fuel tank and reconnect the fuel and EVAP lines to the tank.

    NOTE: If installing on H37i, be sure to reattach the ground wire on the back of the saddle, inside the chassis, on the rear bolt.

20. Remove the red plastic tip from the load side of the circuit breaker (silver stud). Remove the nut and attach the red lead wire from the wire harness to the silver stud on the circuit breaker as shown in Photo P. Tighten the lead wire to the circuit breaker and push the red plastic tip back onto the stud.

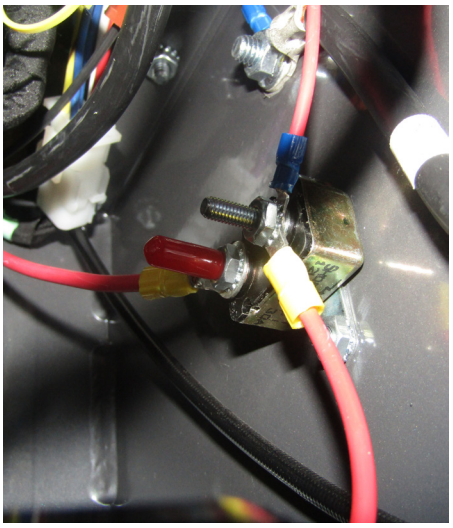


Photo P

21. Reattach the positive battery cable to the positive (+) terminal on the battery. Attach the black wire from the wire harness to the negative terminal on the battery and reattach the negative battery cable.

22. Thread a 1/4-20 (F381) jam nut onto the 1/4-20 x 1 (F179) Hex Bolt and run the nut up to the head of the bolt and Insert the bolt into the tab on the torque tube assembly. With the actuator fully retracted, thread the nut down onto the bolt until the head of the bolt engages the safety switch as shown in Photo Q. Thread the remaining F381 jam nut onto the bolt and tighten.

    NOTE: Horn should sound with key ON if the linear actuator is not fully retracted.

Photo Q

23. Align the front body template to the underside of the RH front fender as shown in Illustration R. Mark the hole to be drilled and drill using a 1/8 in. bit. Drill out the 1/8 in. pilot hole using a 1/4 in. drill bit. Repeat this procedure for the opposite side of the body.

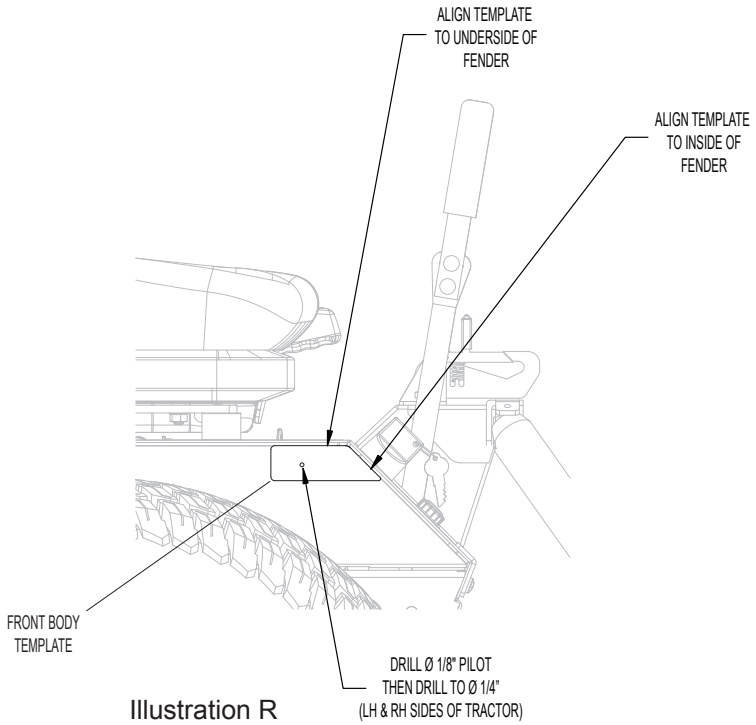


Illustration R

24. Fasten a cable pin (P/N 8654-3) to both sides of the body using a F004 KEPS Nut as shown in Photo S. Place a hitch pin (P/N 7666) through both of the cable pins.

    NOTE: The cable pins are designed to keep the deck lift cables stowed and secure anytime there is not a deck attached to the tractor.

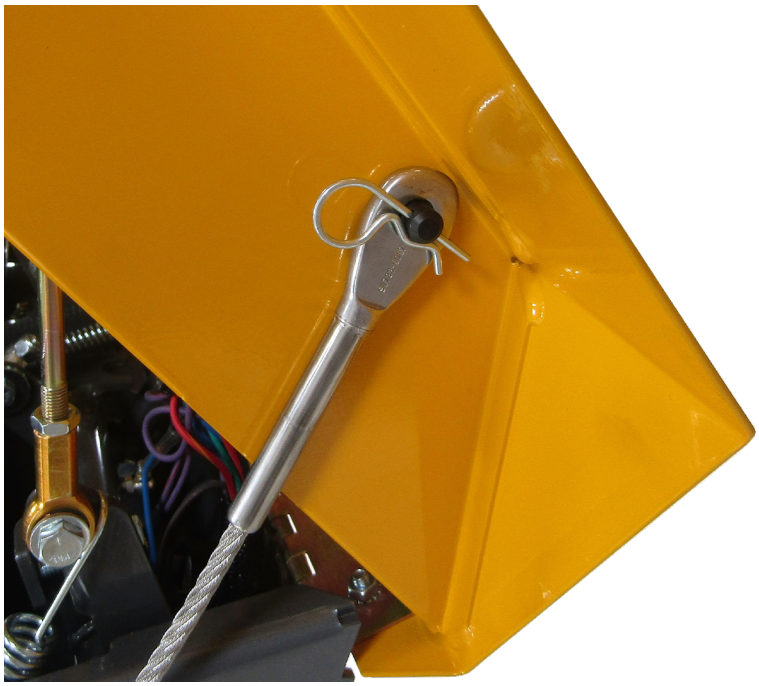


Photo S

25. Reinstall drive tires and torque drive tire mounting nuts to 75 to 85 lb-ft (102 to 115 Nm).

26. Remove current Walker decal from rear body and place the Power Tilt-Up decal (P/N 8654-11), and the Power Tilt-Up instructions decal (P/N 8654-20) in place as shown in Illustration T.

    NOTE: The Power Tilt-Up switch decal (P/N 8654-10) comes pre applied to the switch mount.

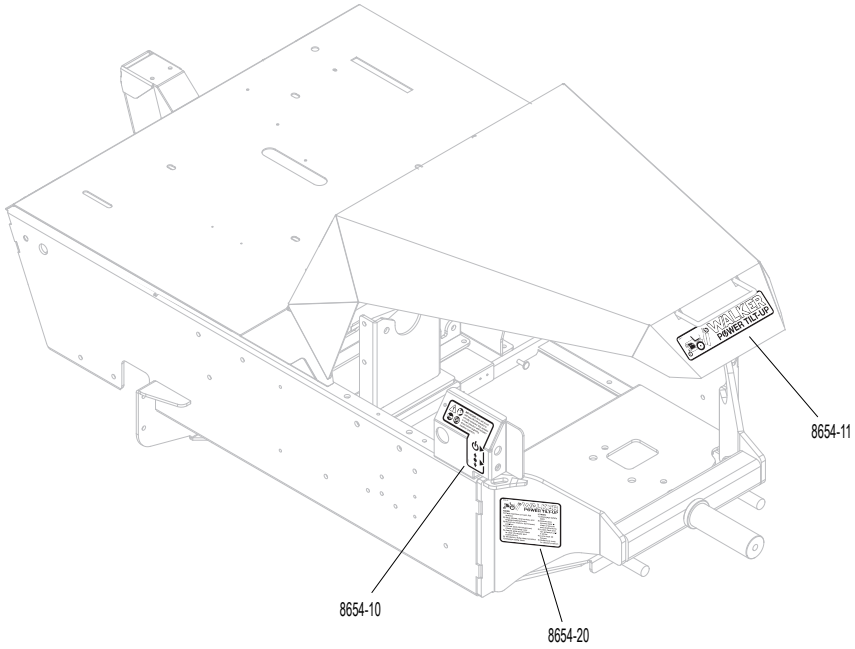


Illustration T

A35 Power Tilt-Up (MH27/MH38)

1	8654-1	Momentary Switch	1
2	8654-2	Deck Lift Cable	2
3	8654-3	Cable Pin	2
4	8654-4	Wire Harness, Auto Deck Tilt	1
5	8654-5	Actuator Mount	1
6	8654-6	Cable Guide	2
7	8654-7	Cable Guide Roller	2
8	8654-8	Roller Sleeve	2
9	8654-9	Lift Arm Link	4
10	8654-10	Decal, Switch Power Tilt-up	1
11	8654-11	Decal, Power Tilt-Up	1
12	8654-20	Decal, Instructions Power Tilt-Up	1
13	8654-12	Inner Actuator Guard	1
14	8654-13	Outer Actuator Guard	1
15	8654-21	Torque Shaft Weldment (Includes Item # 34)	1
16	8654-22	Linear Actuator (Includes Items # 32 & 33)	1
17	8654-23	Switch Mount (Includes Item # 10)	1
18	8654-47	Switch Cover	1
19	5942-10	Safety Switch (NC), Delta Side Mount	1
20	6623	Toggle Switch	1
21	6623-1	Switch Boot	1
22	5536-2	Horn, Full Signal	1
23	7775-10	Lock Pin (3/8 x 1-5/8)	2
24	5281-8	Clevis Pin (3/8 x 3/4)	4
25	6941-6	Relay Switch 20/40 Amp	1
26	6941-7	Relay Mount	1
27	7666	Hitch Pin (#3)	2
28	8553	Splice Tap (18-14 Ga.)	1
29	4407-5	Bow Tie Cotter Pin	2
30	5975-1	Cable Tie (18# x 3-3/4")	4
31	5975-3	Cable Tie (50# x 7")	5
32	7942-10	2-Way Locking Connector (M)	1
33	5940-4	16-14 GA Spg. Loaded Term. (F)	2
34	5830	Grease Fitting	3
35	NS	Wire, Black (16 Ga.)	1
36	NS	16-14 GA Bullet Connector (F) (Insulated), 5996-4 (M)	1
37	6621-1	Clevis Pin (1/2 x 2)	2
38	2723-15	Locking Arm, RH (Includes Item # F432)	1
39	2723-19	Locking Arm, LH (Includes Item # F432)	1

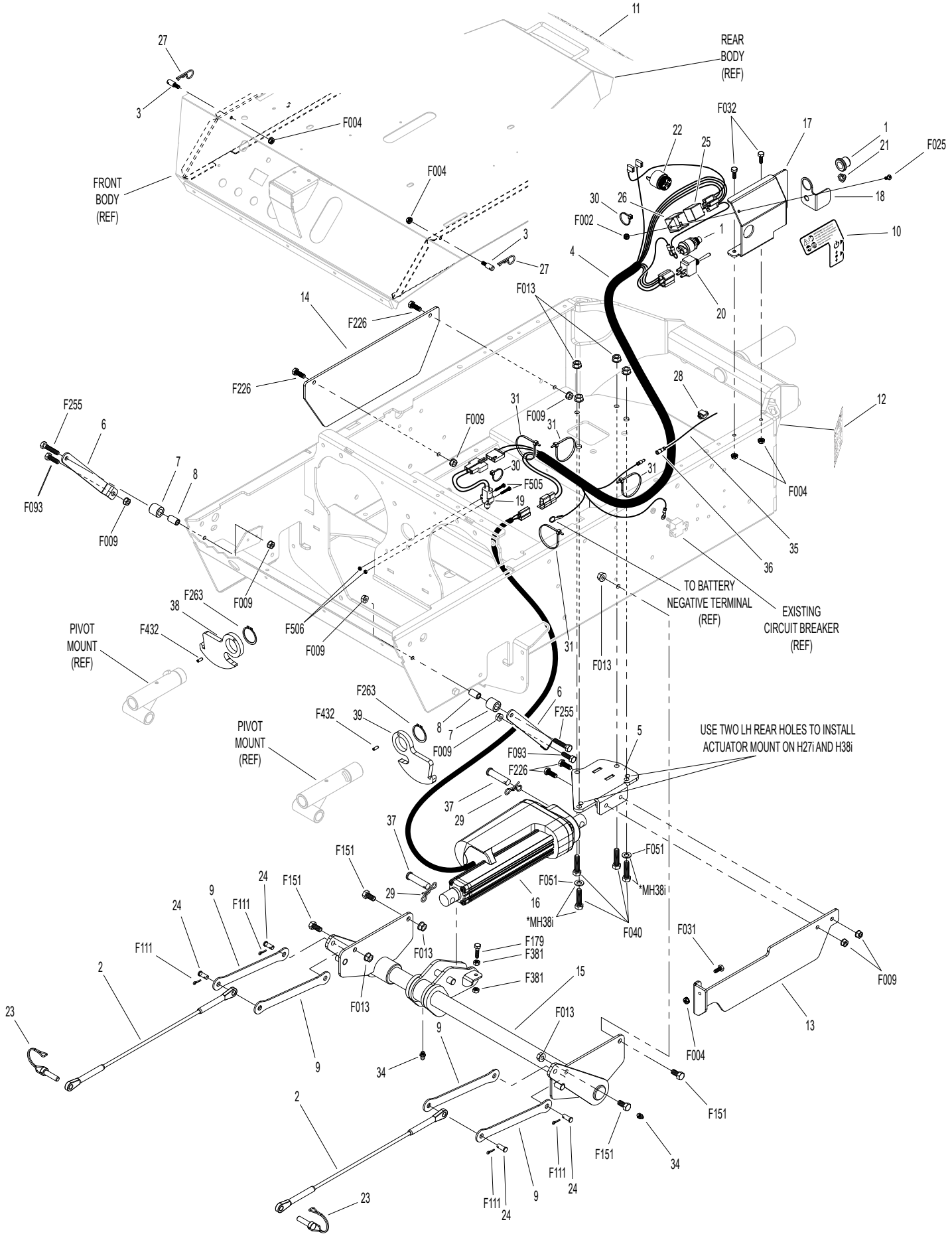
	RH Actuator Mount Template	1
	LH Actuator Mount Template	1
	Switch Template	1
	Chassis Side Template	1
	Actuator Template	1
	Front Body Template	1

Fasteners

F002	10-24 Keps Nut	1
F004	1/4-20 Keps Nut	5
F008	5/16-24 Keps Nut	2
F009	5/16-18 Whiz Locknut	8
F013	3/8-16 Whiz Locknut	8
F025	10-24 x 3/8 PPHMS	1
F031	1/4-20 x 5/8 Hex Bolt	1
F032	1/4-20 x 3/4 Hex Bolt	2
F040	3/8-16 x 1-1/2 Hex Bolt	4
F044	5/16-24 x 3/4 Hex Bolt	2
F051	3/8 SAE Washer	1Δ
F093	5/16-18 x 1 Hex Bolt	2
F111	1/8 x 3/4 Cotter Pin	4
F151	3/8-16 x 7/8 Hex Bolt	4
F179	1/4-20 x 1 Hex Bolt	1
F226	5/16-18 x 7/8 Hex Bolt	4
F255	5/16-18 x 1-1/2 Hex Bolt	2
F263	1-1/4 External Snap Ring	2
F381	1/4-20 Hex Nut	2
F388	3/8-16x2-1/2 Hex Bolt	2*
F389	3/8-16x2-3/4 Hex Bolt	2Δ
F432	3/16 x 1/2 Split Spring Pin	2
F505	6-32 x 7/8 Hex Trim MS, SS	2
F506	6-32 Nylock Nut	2

* Used on MH38i Only

Δ Used MH37i Only


REAR BODY (REF)
FRONT BODY (REF)
PIVOT MOUNT (REF)
PIVOT MOUNT (REF)
TO BATTERY NEGATIVE TERMINAL (REF)
EXISTING CIRCUIT BREAKER (REF)
USE TWO LH REAR HOLES TO INSTALL ACTUATOR MOUNT ON H27i AND H38i
*MH38i
*MH38i
*MH38i