



# All-O-Matic Inc SL-90DC Slide Gate Operator Installation Guide

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**All-O-Matic Inc SL-90DC Slide Gate Operator**



## Product Information

The product is an SL-90DC foot pedal release assembly that can be used to control the opening and closing of gates. The assembly includes a frame, gearbox, motor, control box, limit switch box assembly, power supply box assembly, foot pedal release assembly, loop rack, exterior plastic cover, plastic chain idler, chain bolt, and chain bracket.

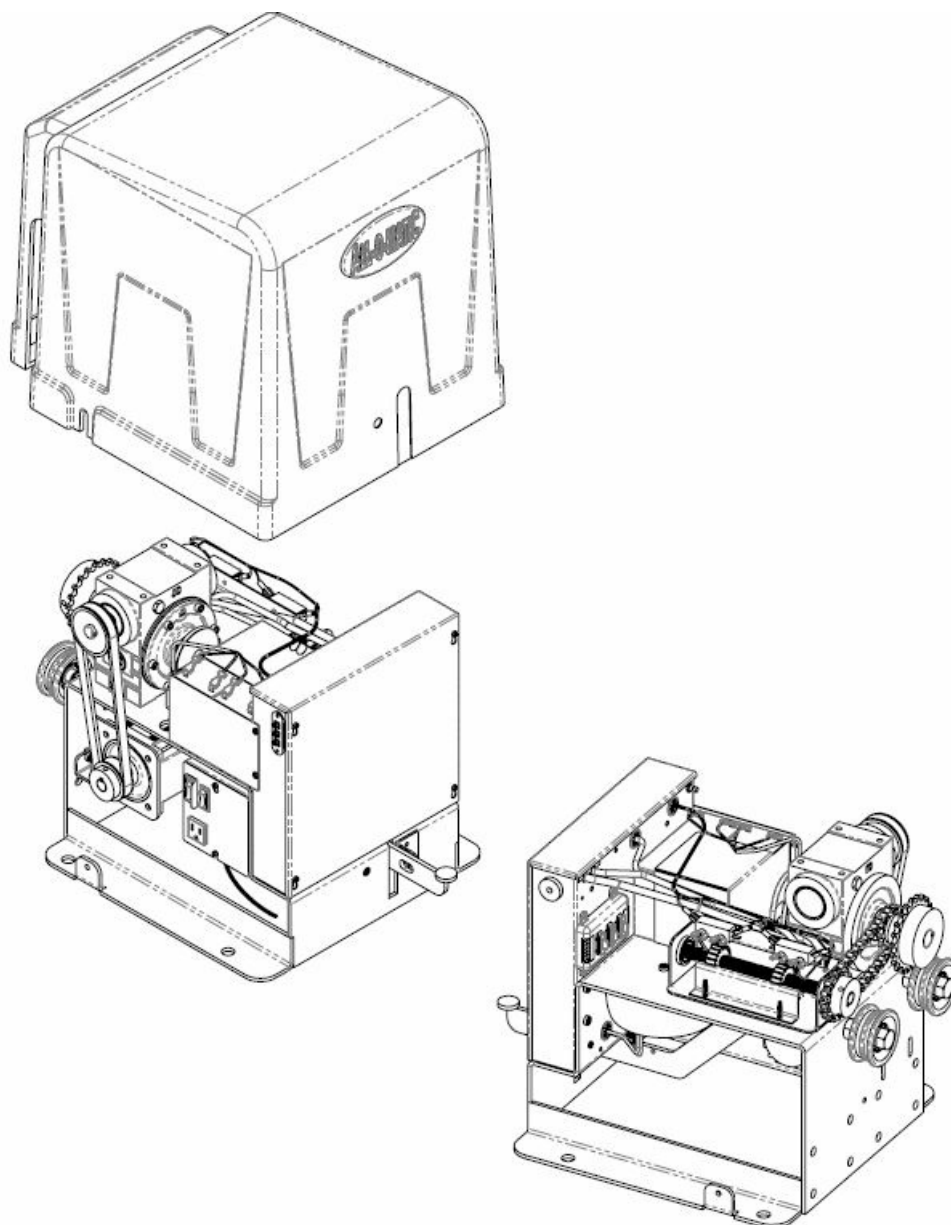
## Product Usage Instructions

1. Install the frame (Item No. 1) of the assembly in a suitable location.
2. Attach the gearbox (Item No. 2) to the frame using the required nuts and bolts.
3. Install the gearbox drive sprocket (Item No. 3) and gearbox pulley (Item No. 4) on the gearbox output shaft.
4. Attach the small gearbox drive sprocket (Item No. 5) to the motor (Item No. 6).
5. Mount the motor on the frame using the DC motor mount bracket (Item No. 7).
6. Install the DC motor pulley (Item No. 8) on the motor shaft.
7. Attach the DC motor belt (Item No. 9) to the motor pulley and gearbox drive sprocket.
8. Install the control box assembly (Item No. 10) on the frame.
9. Connect the DC control board (Item No. 11) to the motor and other components as per the provided wiring diagram.
10. Install the control box (Item No. 12) and cover (Item No. 13) on the control box assembly.
11. Install the limit switch box assembly (Item No. 19) on the frame.
12. Attach the limit switch (Item No. 22) to the limit shaft (Item No. 21).
13. Install the limit sprocket (Item No. 23) on the limit shaft.
14. Attach the limit switch wire harness (Item No. 24) to the limit switch and control box assembly.
15. Install the power supply box assembly (Item No. 30) on the frame.
16. Connect the power supply board (Item No. 34) to the power supply box transformer (Item No. 31) and other

components as per the provided wiring diagram.

17. Install the power supply box (Item No. 32) and cover (Item No. 33) on the power supply box assembly.
18. Install the foot pedal release assembly (Item No. 42) on the frame.
19. Connect the foot pedal release wire harness (Item No. 41) to the foot pedal release kill switch (Item No. 44) and control box assembly.
20. Install the loop rack (Item No. 50) on the frame and attach the loop rack wire harness (Item No. 51) to it and the control box assembly.
21. Install the exterior plastic cover (Item No. 52) on the frame and attach the plastic chain idler (Item No. 53) to it.

## OVERVIEW



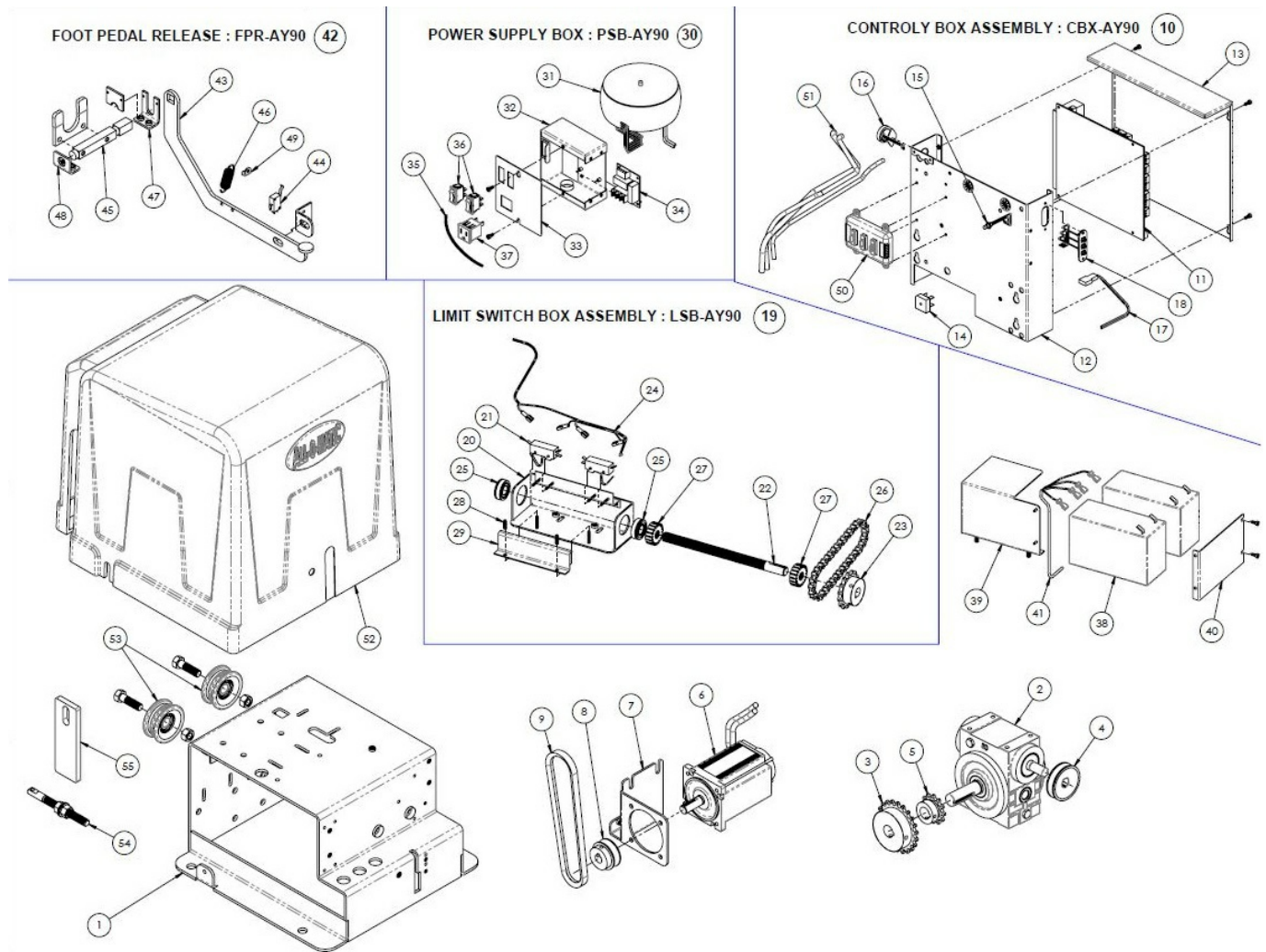
### ITEM NO/DESCRIPTION/PART NUMBER/QTY.

1. FRAME ONLY SL-90FM 1
2. GEARBOX GBX-101 1
3. GEARBOX DRIVE SPROCKET 41B22X78 1
4. GEARBOX PULLEY PLY-25A 1

5. GEARBOX DRIVE SPROCKET (SMALL) 41B12X78 1
6. 1/2 HP 250W BLDC MOTOR MTR-1250 1
7. DC MOTOR MOUNT BRACKET MTR-B1250 1
8. DC MOTOR PULLEY PLY-2 1
9. DC MOTOR BELT 4L-230 (AX21) 1
10. CONTROL BOX ASSEMBLY CBX-AY90 1
11. CONTROL BOX DC CONTROL BOARD – 1/2 HP BLDC-ULPCB 1
12. CONTROL BOX CBX-90 1
13. CONTROL BOX COVER CBC-90 1
14. CONTROL BOX BRIDGE RECTIFIER COM-1006 1
15. CONTROL BOX RESET PUSH BUTTON COM-1004 1
16. CONTROL BOX ALARM BUZZER COM-1005 1
17. CONTROL BOX LINE-IN HARNESS COM-1016 1
18. CONTROL BOX RADIO RECEIVER STRIP COM-1003 1
19. LIMIT SWITCH BOX ASSEMBLY LSB-AY90 1
20. LIMIT BOX LSB-103 1
21. LIMIT SWITCH COM-1007 2
22. LIMIT SHAFT LST-100 1
23. LIMIT SPROCKET 41B15X58 1
24. LIMIT SWITCH WIRE HARNESS LSH-101 1
25. LIMIT SHAFT BEARINGS – 5/8" BRG-6202B 2
26. LIMIT CHAIN 41NPX18 1
27. LIMIT SWITCH PLASTIC NUT COM-1008 2
28. LIMIT TABLE SPRING (2) SPG-7575 2
29. LIMIT BOX PLATE LSP-100FP 1
30. POWER SUPPLY BOX ASSEMBLY PSB-AY90 1
31. POWER SUPPLY BOX TRANSFORMER TFR-90 1
32. POWER SUPPLY BOX PSB-90 1
33. POWER SUPPLY BOX COVER PSC-90 1
34. POWER SUPPLY BOARD EMI-PCB 1
35. POWER SUPPLY BOX WIRE HARNESS PSH-90 1
36. POWER SUPPLY BOX ON/OFF POWER SWITCH COM-1000 2
37. POWER SUPPLY BOX 110VAC OUTLET COM-1001 1
38. 7 AH BATTERIES BTY-1270 2
39. BATTERY BOX BCU-90 1
40. BATTERY BOX COVER BTC-90 1
41. BATTERY WIRE HARNESS BTY-H90 1
42. FOOT PEDAL RELEASE ASSEMBLY FPR-AY90 1
43. FOOT PEDAL RELEASE FPR-90 1
44. FOOT PEDAL RELEASE KILL SWITCH COM-1007P 1
45. FOOT PEDAL SQUARE HINGE SHAFT SHS-90FP 1
46. FOOT PEDAL SPRING SPG-90FP 1
47. FOOT PEDAL SPLIT PIVOT BRACKET (2 PCS) HSB-90FP 1

48. FOOT PEDAL PIVOT BRACKET HPB-90FP 1
49. FOOT PEDAL SPRING HOOK BRACKET SHB-90FP 1
50. LOOP RACK LPR-2 1
51. LOOP RACK WIRE HARNESS 19" LPR-H90 1
52. EXTERIOR PLASTIC COVER EPC-90 1
53. PLASTIC CHAIN IDLER COM-1017 2
54. CHAIN BOLT (1PC) COM-1010-1 1
55. CHAIN BRACKET (1PC) COM-1009 1

## ASSEMBLING



## ALL-O-MATIC, Inc.

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- DIMENSIONS ARE IN INCHES
- BREAK SHARP EDGES .10-.40
- THE MACHINED SURFACE FINISH IS
- 1.6 MICROMETERS

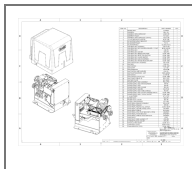
- DO NOT SCALE DRAWING

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- **DRAWN BY:** S. HUERTA
- **DATE DRAWN:** 08/23/2021
- **CHECKED BY:**
- **DATE CHECKED:**
- **MATERIAL:**
- **RAW MAT:**
- **TITLE:** SL-90DC
- **SYMBOL** ECO#

ENGINEERING CHANGE ORDER REVISION DESCRIPTION

## Documents / Resources



[All-O-Matic Inc SL-90DC Slide Gate Operator](#) [pdf] Installation Guide  
SL-90DC Slide Gate Operator, SL-90DC, Slide Gate Operator, Gate Operator