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FDL-3 Assembly: Tail Auto

Required Tools

Instructions

Step:
Locate the following:
- Trigger
- Trigger spring
- Trigger pin

Step 1
Insert Trigger in Handle Core
- Place trigger spring into trigger pin hole
- Insert trigger pin into trigger core hole
- Insert trigger into handle core

Step 2
Insert Trigger Switch
- Insert trigger switch in handle core
- Insert trigger switch between trigger and trigger spring
- Insert trigger switch between trigger and handle core
- Insert trigger switch between trigger and handle core

Step:
Locate the following:
- Trigger housing
- Trigger housing pin
- Screw #1
- Screw #2
- Screw #3 (Tiny Screw)
- Screw #4
- 8-32 nut (Tiny)

Step 3
Attach Right Handle Scale
- Place right handle scale on handle core
- Insert screw #1 into hole
- Insert screw #2 into hole
- Insert screw #3 into hole
- Insert screw #4 into hole
- Tighten screws

Step 4
Attach Left Handle Scale
- Place left handle scale on handle core
- Insert screw #1 into hole
- Insert screw #2 into hole
- Insert screw #3 into hole
- Insert screw #4 into hole
- Tighten screws

Step:
Locate the following:
- Motor housing
- Motor housing pin
- Motor
- Motor wire
- Screw #1

Step 5
Mount Pusher Motor
- Place motor into motor housing
- Insert motor wire through hole in motor housing
- Insert motor housing into handle core
- Insert motor housing pin through motor housing
- Insert motor housing pin through handle core
- Tighten screw into motor housing pin
- Tighten screw into handle core

Step 6
Route Pusher Motor Wire
- Route pusher motor wire through hole in handle core
- Route pusher motor wire through hole in handle core
- Route pusher motor wire through hole in handle core
- Route pusher motor wire through hole in handle core
- Tighten screw into motor housing pin
- Tighten screw into handle core

Step:
Locate the following:
- Spinner
- Screw #1
- Screw #2
- Screw #3
- 8-32 nut (Tiny)
- 8-32 x 1/2" Machine screw

Step 7
Mount Spinner
- Place spinner on machine screw
- Insert spinner into hole in handle core
- Insert screw #1 into hole
- Insert screw #2 into hole
- Insert screw #3 into hole
- Tighten screws
- Insert machine screw through spinner and handle core
- Tighten nut onto machine screw

Step 8
Spinner Bushing
- Place bushing onto spinner
- Insert bushing into spinner
- Insert bushing into spinner

Step 9
Place Pusher
- Place pusher into hole in handle core
- Insert pusher into hole in handle core

Step:
Locate the following:
- Pusher switch
- Screw #1
- Screw #2
- 8-32 x 1/2" Machine screw
- 8-32 nut (Tiny)

Step 10
Mount Rear Pusher Switch
- Place pusher switch into hole in handle core
- Insert pusher switch into hole in handle core
- Insert screw #1 into hole
- Insert screw #2 into hole
- Tighten screws
- Place 8-32 machine screw through pusher switch and handle core
- Tighten nut onto machine screw

Step 11
Mount Front Pusher Switch
- Installing the front of the pusher switch
- Place front of pusher switch into hole in handle core
- Insert front of pusher switch into hole in handle core
- Insert screw #1 into hole
- Insert screw #2 into hole
- Tighten screws
- Place machine screw through pusher switch and handle core
- Tighten nut onto machine screw
- Insert wire through hole in handle core
- Insert wire through hole in handle core
- Tighten machine screw into pusher switch
- Tighten machine screw into handle core

Step 12
Cleanup Switch and Motor Wiring
- Cut excess wire
- Cut excess wire
- Insert wire into hole in handle core
- Insert wire into hole in handle core
- Insert wire into hole in handle core
- Insert wire into hole in handle core
- Insert wire into hole in handle core
- Insert wire into hole in handle core

Step:
Locate the following:
- Lower grip housing
- Screw #1
- Screw #2

Step 13
Secure Left Side Panel

- Screws:
  - 2x M2.5x6 countersunk
  - 2x M2.5x8 pan head
  - 2x M2.5x10 pan head
- Tools:
  - 1x Phillips screwdriver
  - 1x 2.5mm Allen key
- Order: Left side first

Step 14
Secure Right Side Panel

- Screws:
  - 2x M2.5x6 countersunk
  - 2x M2.5x8 pan head
  - 2x M2.5x10 pan head
- Tools:
  - 1x Phillips screwdriver
  - 1x 2.5mm Allen key

Optional
Secure Tel Assembly to Nose

- Screws:
  - 2x M2.5x6 countersunk
  - 2x M2.5x8 pan head
  - 2x M2.5x10 pan head
  - 2x M2.5x12 pan head
- Tools:
  - 1x Phillips screwdriver
  - 1x 2.5mm Allen key
- Order: Screws separately

Step
Locate the following:

- 1x USB-A male to micro USB-B male cable
- 1x USB-A male to USB-C male cable

Step 15
Route USB & VR Cables Through Panel Mounting

- Cable routing:
  - 1x USB-A male to micro USB-B male through VR mounting hole
  - 1x USB-A male to USB-C male through VR mounting hole
  - Leave the USB-A connectors outside the panel
  - Leave the micro USB-B and USB-C connectors inside the panel
- Order: Micro USB-B first, then USB-C

Step
Locate the following:

- 1x Power switch
- 1x Power switch cap
- 1x Power switch mounting bracket
- 1x Wire

Step 16
Mount Power Switch In PCB Mount

- Power switch:
  - Insert power switch into mounting bracket
  - Ensure the switch is fully seated
  - Insert the switch cap into the switch
  - Ensure the switch cap is fully seated
- Mounting bracket:
  - Insert the mounting bracket into the PCB mount
  - Ensure the bracket is fully seated

Step 17
Route right side wiring through PCB Mount

- Cable routing:
  - Route the USB cable, VR cable, and power switch wire through the right side of the PCB mount
  - Ensure the USB cable, VR cable, and power switch wire are fully seated in the PCB mount
  - Leave the USB-A connectors outside the PCB mount

Step 18
Route left side wiring through PCB Mount

- Cable routing:
  - Route the USB cable, VR cable, and trigger wire through the left side of the PCB mount
  - Ensure the USB cable, VR cable, and trigger wire are fully seated in the PCB mount
  - Leave the USB-A connectors outside the PCB mount

Step 19
Trigger Wire

- Cable routing:
  - Route the trigger wire through the PCB mount
  - Ensure the trigger wire is fully seated in the PCB mount
- Tools:
  - 1x Wire cutter
  - 1x Wire stripper

Step 20
PCB Mount

- Screws:
  - 4x M2.5x6 countersunk
  - 4x M2.5x8 pan head
  - 4x M2.5x10 pan head
  - 4x M2.5x12 pan head
- Tools:
  - 1x Phillips screwdriver
  - 1x 2.5mm Allen key
- Order:
  - Screws in order as listed above
  - Start with the top left hole
  - Tighten the top left hole
  - Tighten the bottom right hole
  - Tighten the top right hole
  - Tighten the bottom left hole
  - Tighten the middle holes

Step 21
Deck Attachment

- Screws:
  - 2x M2.5x6 countersunk
  - 2x M2.5x8 pan head
- Tools:
  - 1x Phillips screwdriver
  - 1x 2.5mm Allen key
- Order:
  - Start with the top left hole
  - Tighten the top left hole
  - Tighten the bottom right hole

Step 22
Power Switch Wire

- Cable routing:
  - Route the power switch wire through the PCB mount
  - Ensure the wire is fully seated in the PCB mount

Step
Locate the following:

- 1x DCP Assembly
- 1x Cable tie
- 1x Cable tie mounting bracket
- 1x Cable tie
- 1x Cable tie mounting bracket

Step 23
DCP Right Side Wiring

- Cable routing:
  - Route the USB cable through the right side of the PCB mount
  - Ensure the USB cable is fully seated in the PCB mount
  - Leave the USB-A connector outside the PCB mount
  - Route the USB cable through the DCP
  - Ensure the USB cable is fully seated in the DCP
  - Leave the USB-A connector outside the DCP
  - Route the USB cable through the cable tie mounting bracket
  - Ensure the USB cable is fully seated in the cable tie mounting bracket

Step 24 (Optional)
DCP Left Side Wiring

- Cable routing:
  - Route the USB cable through the left side of the PCB mount
  - Ensure the USB cable is fully seated in the PCB mount
  - Leave the USB-A connector outside the PCB mount
  - Route the USB cable through the DCP
  - Ensure the USB cable is fully seated in the DCP
  - Leave the USB-A connector outside the DCP
  - Route the USB cable through the cable tie mounting bracket
  - Ensure the USB cable is fully seated in the cable tie mounting bracket

Step 25
Mount DCP Board To PCB Mount

- Screws:
  - 4x M2.5x6 countersunk
  - 4x M2.5x8 pan head
  - 4x M2.5x10 pan head
  - 4x M2.5x12 pan head
- Tools:
  - 1x Phillips screwdriver
  - 1x 2.5mm Allen key
- Order:
  - Screws in order as listed above
  - Start with the top left hole
  - Tighten the top left hole
  - Tighten the bottom right hole
  - Tighten the top right hole
  - Tighten the bottom left hole
  - Tighten the middle holes

Step 27
Control Board

1. While gently pushing towards the rear of the handle, slide the control board into place.
2. Once all pins are aligned, gently push forward to seat the board into the PCB connector.
3. Board should securely sit in place and should not come out unless significant pressure is applied.

Step 28
Control Knob

1. Place control knob on shaft inside on control board.
2. Control knob firmly down over both tactile buttons and push to the right.
3. Control knob is fully seated.

Step 29
Rear Cap

1. Place rear cap over PCB assembly.
2. Ensure "Vega" of rear cap is aligned with the mount and slide panels are aligned with the power buttons.
3. Rear cap should now place sheating the control knob guides through the opening in cap.

Step 30
Secure Rear Cap

1. Secure rear cap with (3) 1/4" machine screws. Two screws in the front of handle and one screw in the 1/2" machine screws at the back of handle in the stock at underside.

Prep:
Locate the following:

1. Handle Guard
2. Handle Guard
3. Paddle
4. 4-40 1/4" Machine Screw (2)

Step 31
Insert Handle Guard in Underbelly

1. Insert handle guard in opening at bottom of handle.
2. Slide assembly over plastic mesh.
3. Ensure handle guard sits flush and is flat against underbelly.

Step 32
Rest Paddle in Handle Guard

1. Place paddle in opening on inside of handle guard.
2. Slide assembly over plastic mesh.
3. Ensure paddle is seated evenly in rest and flush of handle guard.

Step 33
Secure Handle Guard Assembly

1. Ensure handle guard, paddle and mesh are seated in underbelly and flush against handle.
2. Secure assembly assembly with (2) 4-40 1/4" machine screws.

Prep:
Locate the following:

1. Cap Mid Battery Door)
2. 4-40 1/4" Machine
3. 4-40 1/4" Machine
4. 4-40 Thumb Screw (2)

Step 34
Cap Mid (Battery Door)

1. Place cap into open notch at corner facing rear of handle.
2. Place cap on lower assembly ensuring no wires are pinched or damaged.
3. Secure with (4) 4-40 thumb screws (2).

Step 35
Top Rail

1. Place top rail on rear hold with starboard and port notches.
2. Secure rail with (4) x 4-40 1/4" machine screws.

Complete
Congrats!

You have completed your FDL-5 auto fall assembly.

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