86Dunio 3DP Feeder Cover and Sensor Replacement Guide

1. Purpose

This document explains how to replace the feeder cover and sensor. The procedure is as follows: remove the original feeder cover, take out the sensor, first secure the new feeder cover to the machine, insert the sensor, close the feeder cover, then tighten the fixing screw and complete the final check.
If you need to watch the operation video, please click here.

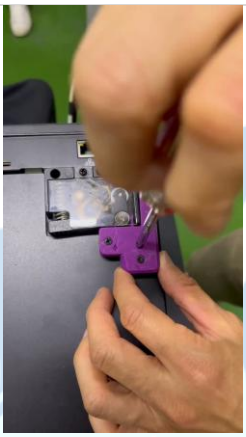
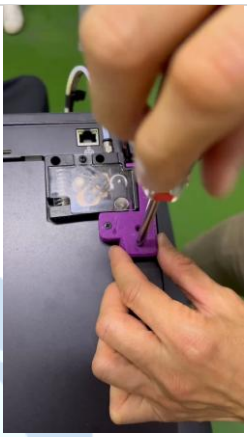
Applicable To	Personnel who need to replace the feeder cover or re-secure the sensor.
Required Tools	Phillips screwdriver, fixing screw, new feeder cover, original sensor and cable.
Criteria	The feeder cover is fixed to the right side of the machine; the sensor is seated flat; the cable is not pinched or pulled; and there is no interference with nearby mechanisms.

2. Precautions Before Operation

- Before operation, make sure the equipment has stopped and is in a safe condition.
- Place removed screws together to prevent loss or mix-up.
- Do not pull, bend sharply, or over-twist the sensor or cable during removal or installation.
- When fastening, position the screw first, then tighten it in order to prevent the feeder cover from shifting.

Part 1: Remove the Original Feeder Cover

Remove the original feeder cover from the right side of the machine to expose the sensor and cable for removal.

		
Check Feeder Cover Position	Loosen the Fixing Screw	Remove the Original Feeder Cover

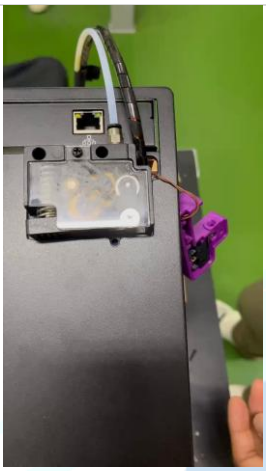
1. Check the position: Confirm the positions of the feeder cover, fixing screw, and sensor cable before disassembly.

2. Loosen the screw: Use a Phillips screwdriver to loosen the fixing screw while holding the feeder cover to prevent sudden movement.

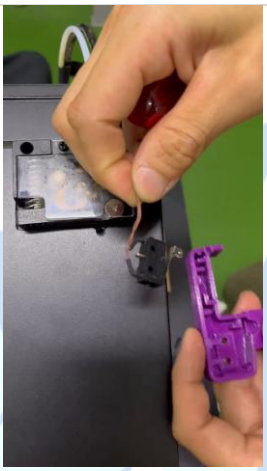
3. Remove the original feeder cover: Remove it from the side of the machine. Do not pull the sensor cable or scrape nearby mechanisms.

Part 2: Remove the Sensor

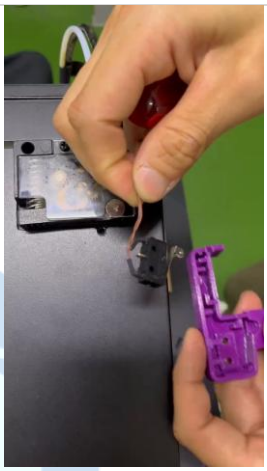
Take the sensor out of the original feeder cover and keep the sensor and cable ready for installation into the new feeder cover.



Check Sensor Position



Remove the Sensor



Separate the Sensor from the Original Feeder Cover

1. Check the sensor orientation: Confirm the sensor position inside the original feeder cover and the cable outlet direction.

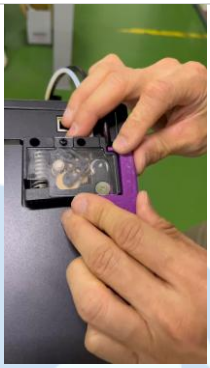
2. Remove the sensor: Hold the sensor body gently and take it out of the slot. If it is stuck, slightly adjust the angle before removal. Do not pull the cable.

3. Set the sensor aside: Place the sensor and cable beside the machine, and confirm there is no damage, indentation, or breakage.

Part 3: Install and Secure the New Feeder Cover

Follow this sequence:

Prepare new cover → secure to machine → insert sensor → close cover → tighten screw.

				
Prepare New Cover	Secure Cover to Machine	Insert the Sensor	Close the Feeder Cover	Tighten Screw

1. Prepare the new feeder cover: Check that its direction matches the right-side mounting position, and prepare the fixing screw.

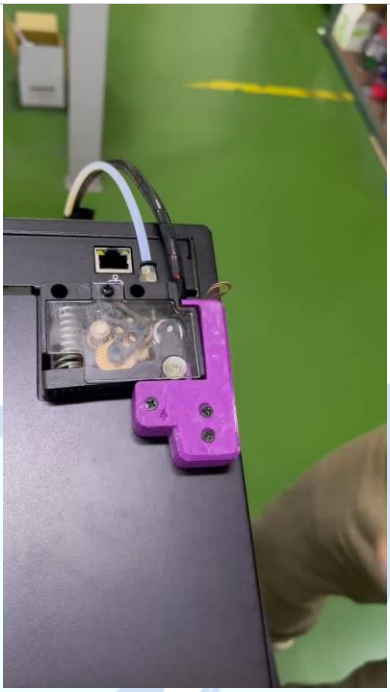
2. Secure the feeder cover to the machine: Align the new cover with the right-side mounting position and secure it in place first.

3. Insert the sensor: Place the sensor into the new cover slot. Make sure it sits flat and the cable is not pressed.

4. Close the feeder cover: Arrange the cable, then close the cover. Make sure the cable is not pinched.

5. Tighten the fixing screw: Confirm the cover is flush with the machine side, then tighten the screw to complete assembly.

4. Final Check



Appearance Check After Replacement

No.	Inspection Item	Result
1	The new feeder cover is flush with the right side of the machine, with no obvious tilt.	□ OK □ NG
2	The fixing screw is tightened, and the feeder cover does not wobble.	□ OK □ NG
3	The sensor is seated flat inside the feeder cover, with no looseness or lifting.	□ OK □ NG
4	The sensor cable is routed naturally and is not pinched by the feeder cover, screw, or transparent gear box.	□ OK □ NG
5	The transparent gear box and nearby mechanisms have sufficient operating clearance and are not interfered with by the feeder cover.	□ OK □ NG