



DAA AUTO CASE SORTER



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General Description:

The DAA Auto Case Sorter (ACS) automatically removes incorrect and inverted pistol cases, ensuring only valid cases reach the shell plate. It supports multiple calibers and is programmed via a single multi-function button.

Key features

- **Multi-function Start/Stop button**
 - **Short press:** Start / Stop
 - **2-second press (LED on):** Program case type
 - The unit feeds and measures five cases (diameter and height), calculates average values, and stores them as the reference.
 - For best results, use five hand-selected good cases loaded into the feed tube.
 - **4-second press (LED flashing):** Empty cycle
 - All remaining cases are ejected through the reject port without measurement. Press Start/Stop to end the cycle.
- **Digital good-case counter**

Counts only accepted cases. Resets when the unit is powered off or re-programmed.
- **Optical sensor monitoring exit tube.**
- **Status display**

Shows operating state and good case count.
- **Automatic jam detection and recovery**

If a jam occurs, the unit attempts to clear it by cycling the slider. If successful, operation resumes (the affected case is rejected). If not, the motor is disabled so the slider can be removed for clearing.
- **Motor position protection**

The motor remains powered when the unit is on to prevent loss of position.

To remove the slider for cleaning, turn the unit off. In case of an unrecoverable jam, the motor powers down automatically and the LED flashes rapidly.
- **Red status LED**

Flashes rapidly when user attention is required.

User Instructions:

Powering the ACS On

Connect the power supply to the socket on the left side of the ACS and use the in-line switch to turn the unit On or Off.

On power-up, the ACS will home the case slider and then wait for a button press to select an operating mode.

Note: In all modes, if the exit tube below the ACS is full, the unit will pause until the exit tube is clear. The display will show “**Drop tube is full.**” Once the level of cases drops, the unit will automatically commence running.

Normal Run Mode

Press the red Start/Stop button (to the left of the display) to start or stop operation.

The ACS will process and count accepted cases continuously. If no valid cases are detected for 10 consecutive cycles, the unit will stop automatically, assuming the case feeder is empty.

Case Program Mode

To program a new case or caliber:

1. Place at least five hand-selected, correctly oriented good cases in the feed tube above the ACS.
2. Press and hold the Start/Stop button for approximately 2 seconds until the red LED turns on.

The ACS will feed and measure five cases, calculating the average height and rim values to define a “good” case.

Once complete, the unit is ready and will wait for the Start/Stop button to begin normal operation.

Emptying Mode

Press and hold the Start/Stop button for approximately 4 seconds until the red LED flashes.

In this mode, all cases are routed to the reject outlet without measurement. This is used to empty the ACS and the case feeder.

Press Start/Stop to exit this mode. Otherwise, the unit will continue running.

Jams and Stalls

If a case or obstruction prevents the slider from moving, the ACS will attempt to clear the jam automatically by oscillating the slider.

- **If successful:**

The slider is re-homed, the affected case is rejected, and normal operation resumes independently.

- **If unsuccessful:**

Power to the stepper motor is cut and the red LED flashes continuously, indicating user intervention is required.

With the motor unpowered, the slider can be removed without switching off the ACS, preserving the case counter.

Ensure the slider moves freely before pressing Start/Stop to continue.

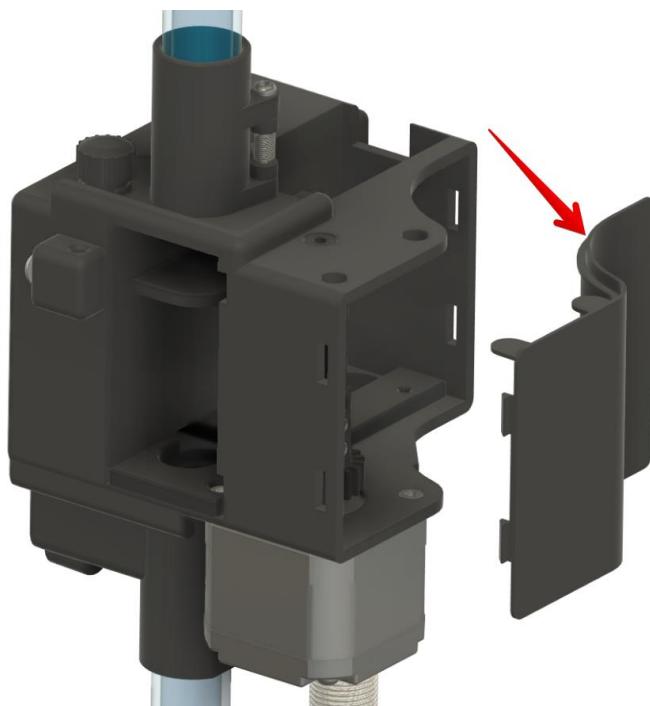
Before removing the slider, remove the **Slide Stop** by pulling it upward until it releases. Reinstall it after the slider has been reinserted.

Pay attention to its correct orientation – round surface inwards!



Troubleshooting:

- **If the ACS does not operate correctly**, first check that the interior is clean.
Remove the Slider, and then remove the rear cover, which can be pushed out from inside the unit through the top opening. (it clicks off)
Ensure no cases or debris are present and that all parts move freely without friction.



Clean only with non-corrosive products. Do not use excessive liquid, as fluids can migrate to the electronics compartment and damage sensors or circuitry.

- **If the slider does not move freely**, check for cases obstructing its movement.
Cases may jam in the input tube or inside the rear section.
 - Remove the input tube by loosening the thumb screw at the top and sliding the tube adapter aside.



- Remove internal obstructions by opening the rear cover as described above.

Note: The front cover of the ACS does not need to be opened. It contains only electronics and sensors and should not be accessed during cleaning.

Installing the ACS using the DILLON Mounting Kit:

Dillon Mounting Kit – Contents

- Two 3 mm mounting rods with hooks for hanging the ACS from the case feeder
- 10 cm acrylic tube (upper tube)
- 25 cm acrylic tube (lower tube, to be cut to length)
- 70 cm spring tube for rejected cases
- Mini hacksaw

1. Setting the Case Feeder Tube Length

1. Insert the **10 cm tube** into the top of the ACS and the **25 cm tube** into the bottom. Make sure they are fully seated and correctly orientated with the chamfered end UP.
2. Turn the assembly upside down on a flat surface and place your press's case feeder original tube next to it, to mark the correct length for the lower tube.
3. Remove and cut the 25cm tube to length using the supplied hacksaw. Cut a piece off the end which does NOT have the chamfering. Remove all burrs and residue before installation.
Do not cut the tube too short, as any gap may cause cases to hang up.



Note: make sure to install the tubes the right way up! See arrows on pipe – chamfered end up!

2. Install on the Press

Install the ACS with both tubes attached in the same position as your original case feeder tube.

3. Secure the Assembly

Use the 3 mm mounting rods to hang the ACS from the case feeder bowl, as shown in the picture below.

Optionally, an articulated arm (not included) can be attached to the rear of the ACS and clamped to the case feeder post to orient the unit toward the operator and provide additional stability. Such Articulated arms can be purchase cheaply on Amazon. (as shown in the right picture below)



4. Connect the Reject Tube

Attach the spring reject tube to the reject outlet by twisting it **counter-clockwise** while pushing it fully onto the adapter.

To remove it, twist counter-clockwise while pulling.

A tie wrap may be used for additional retention if desired.



5. Power Up

Connect the power supply. Installation is complete.

Installing the ACS using the Mark7 APEX 10 Mounting Kit:

MK7 / Apex Mounting Kit – Contents

- Modified case feeder output funnel
- Funnel adapter ring
- 8 cm acrylic tube (upper tube)
- Square case feeder pole extension
- Support mount
- Mark 7 feed spring adapter
- 70 cm spring tube for rejected cases



MK7 / Apex 10 Installation steps

1. Remove the case feeder from the Apex 10 support stand.
2. Loosen the red thumb screws and slide the ACS support mount onto the pole.
Position it so the ACS inlet aligns directly under the case feeder exit funnel, as shown in the picture above.
3. Install the supplied pole extension to raise the case feeder by 10 cm, then reinstall the case feeder.
4. Replace the original case feeder output funnel with the modified funnel from the ACS mounting kit.
5. Insert the **8 cm tube** into the top of the ACS (chamfered end up, arrow pointing up) and place the ACS into the support mount, as shown in the picture above.
6. Slide the support mount up the pole until the 8 cm tube seats into the funnel coupling. Tighten the thumb screws.
7. Attach the original Apex 10 feed spring to the bottom of the feed spring adapter.
8. Connect the Reject Tube to the reject outlet by twisting it **counter-clockwise** while pushing it fully onto the adapter. To remove it, twist counter-clockwise while pulling.
A tie wrap may be used for additional retention if desired.
9. Connect the power supply. Installation is complete.



Operating Guidelines for best performance

- The case feeder must keep up with the ACS. It is preferable that case feeder runs faster than the ACS.
If the ACS runs faster than the feeder, the inlet tube may run empty, increasing the risk of a case being partially caught by the moving slider and causing a jam.
Use a high-output case feeder and/or a DAA Turbo Plate for best results.
- Case lube is not recommended.
If used, clean the ACS regularly. Case lube increases dirt buildup and causes cases to drop more slowly, which can reduce reliability.

Cases Not Supported

The following cases or case combinations cannot pass through the ACS:

- Cases or nested cases taller than **34 mm**
- Cases larger than **12 mm diameter** (e.g. .44 Magnum, .50 AE)
- Cases nested rim-to-rim, creating excessive height (e.g. .38 Special inside .40 S&W)

Cases That Cannot Be Programmed (can be Reject Only)

These cases can be detected and rejected but cannot be used as a programmed “good” case:

- .38 Special
- .357 Magnum
- Cases taller than **25 mm**

Cases That Cannot Be Detected

The ACS cannot reliably detect the following:

- Cases shorter than **17 mm**
- .380 nested inside .45
- .380 nested inside 10 mm