Replacing plate bay door hinges and gas struts (FCO CA04191)

Applies to

☑ Trendsetter Autoloader
☑ Trendsetter NEWS

Background

A Product Safety Alert for Trendsetter Autoloader and Trendsetter NEWS devices was issued on March 18th, 2004. At that time, service engineers were instructed to inspect and, if required, replace the plate bay door hinges and gas struts. This FCO is the long term solution to the problem that was identified. A new, more robust hinge (tested for over 100,000 cycles) and mounting hardware for the gas strut must be installed to permanently resolve the issues identified.

Tools and parts

- 512-00129A - KIT,UPGRADE, ECO CA04191, AL DOOR, TS
- 4mm hex key
- Adjustable wrench
- Loctite® 242 (for new ball studs)
- Second person required to support door during procedure

Steps

Note: You will need a second person to support the door while you change the hinges and gas struts. Do not remove the door completely. You should change the components while the door is held in place.

To replace the hinges:

1. Remove the existing hinges.



2. Install the new hinges using Pre-applied M5*12 screws with washers.



To replace the gas struts:

1. The new gas struts for the door have a new socket for the ball stud in the plate bay.
   Unlock the plastic ball coupling on the gas strut using a small screw driver to pull up the locking mechanism.

Locked ball coupling:



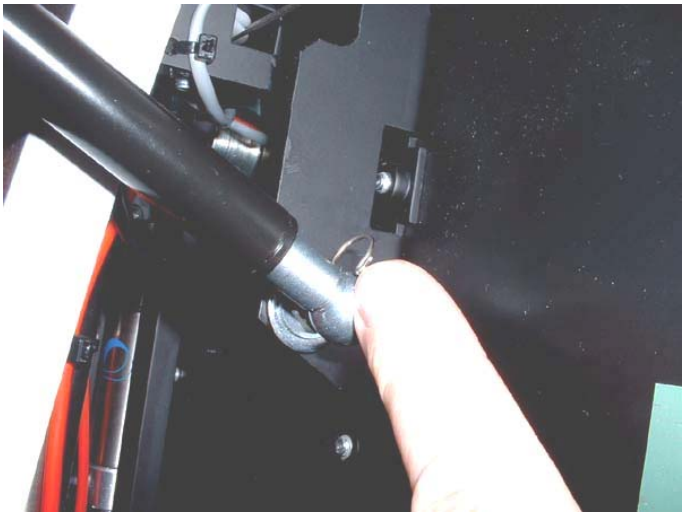
Unlocking ball coupling:



Unlocked ball coupling:



2. Remove the wire clips from both ends of the old gas strut and remove the old gas strut.



3. Remove the existing ball studs from the bracket mounted in the plate bay.
4. Install the new ball studs in the plate bay using Loctite 242 on the threaded portion of the ball stud.
5. Ensure that you replace all the washer(s) that you removed to preserve the alignment of the gas strut with the plate bay door.



6. Push the plastic ball coupling onto the ball stud in the plate bay.
7. Lock the plastic ball coupling by pressing on the locking mechanism.



8. Push the metal coupling onto the ball stud on the plate bay door.
9. Install a wire clip on the metal coupling.

To check the Omron key alignment on door:

When you have replaced both hinges and gas struts, check that the door is centered correctly and that the Omron key aligns with the Omron switch.

1. To adjust the plate bay door:
   - Loosen the front 2 cap screws on each hinge and reposition the door until it is centered.
   - Tighten the cap screws.
2. Check the Omron switch to make sure that the key connects with the switch correctly.
   If necessary, loosen the screws that hold the Omron switch and re-align with the key on the plate bay door.

Notes	The ball studs on the plate bay door do not need to be changed unless they show signs of wear.
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