

## MORryde Ramp Door Hinge

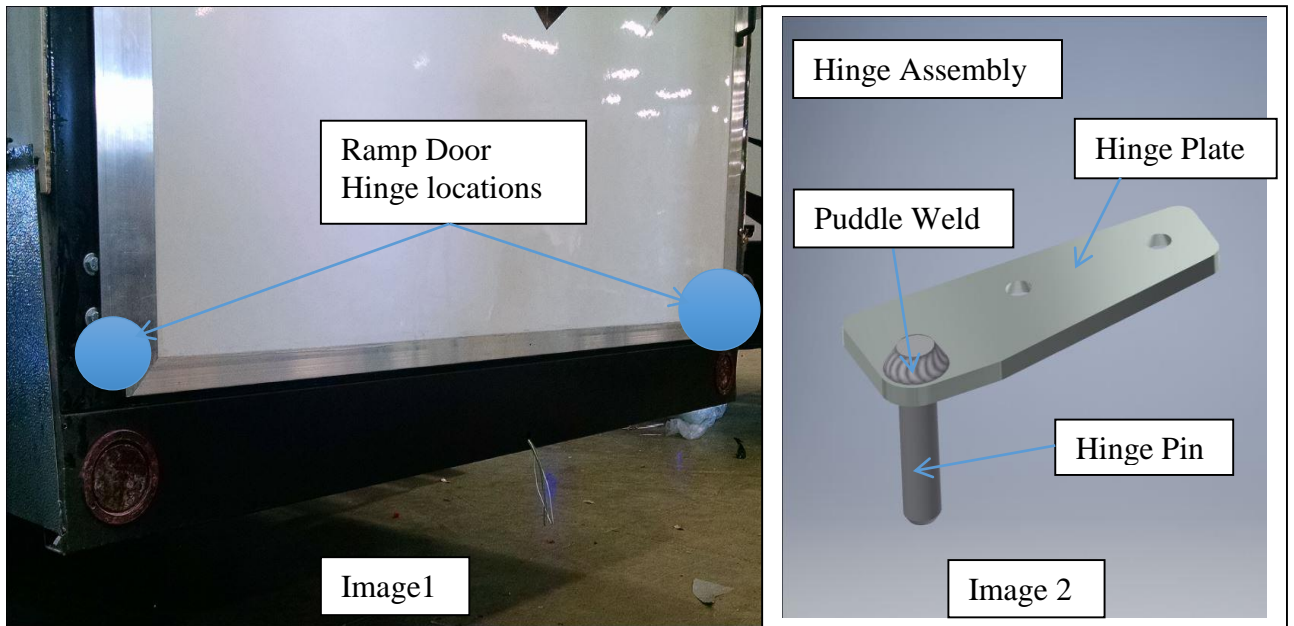
### Description

It has been decided the vehicles in this recall population that the rear cargo door on these vehicles may have been manufactured with defective hinge assemblies. The puddle weld securing the hinge pin to the hinge plate is inadequate and can fail.

### Inspection & Repair

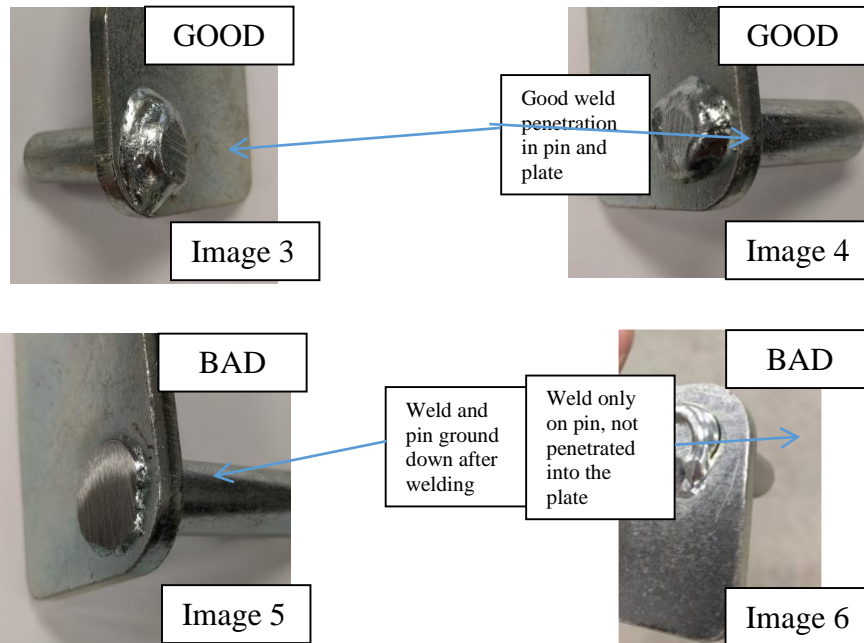
### MORryde Safety Recall RD153-001 Ramp Door Hinge Assembly Weld Failure

**Background:** The MORryde ramp door design includes a Hinge Assembly at each outside bottom corner of the ramp door (images 1 and 2). It was determined the root cause was inadequate puddle weld securing the Hinge Pin to the Hinge Plate (image 2).



**Risk:** If the puddle weld is inadequate the pin can separate from the plate. This can allow that side of the door to shift. The internal springs to the door will help keep the door from falling if this happens. If the door were to be completely opened with a failed hinge, the springs will lift the hinged end of the door causing the top of the door to swing down with more force than normal.

**Inspection Procedure:** The first step is to clear any black caulk or foam from the bottom of the hinge to allow access to the back side of the hinge. Once this is cleared use a light to look inside the cutout in the frame to visually inspect the weld. Your visual inspection is to see if the weld is adequate and to ensure the weld and pin haven't been ground down after welding. An inadequate weld would look as if the puddle weld is only on the pin itself and not welding the pin onto the plate. The ground welding would appear as if the weld itself was ground after it was welded. See images 3 and 4 for good welds, and images 5 and 6 for bad welds.



**Pass:** The weld is complete, has penetrated the plate and the pin.

**Fail:** The weld does not penetrate both the plate and the pin, or it has been ground down after it was welded.

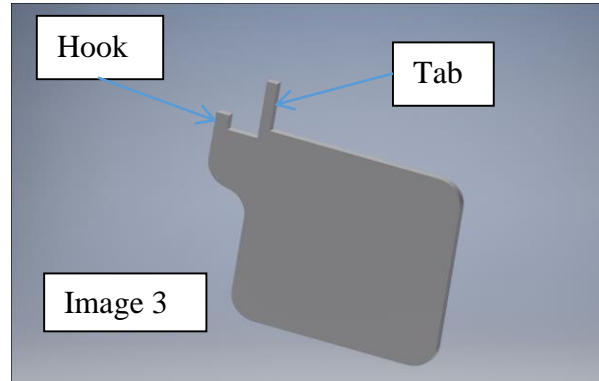
**Models Affected:** 2017 Full House JX450, LX410, LX450, LX455 equipped with the MORryde Ramp Door.

Before doing this inspection procedure we recommend watching the following video:

<https://www.youtube.com/watch?v=4e-KfTTBzfQ>

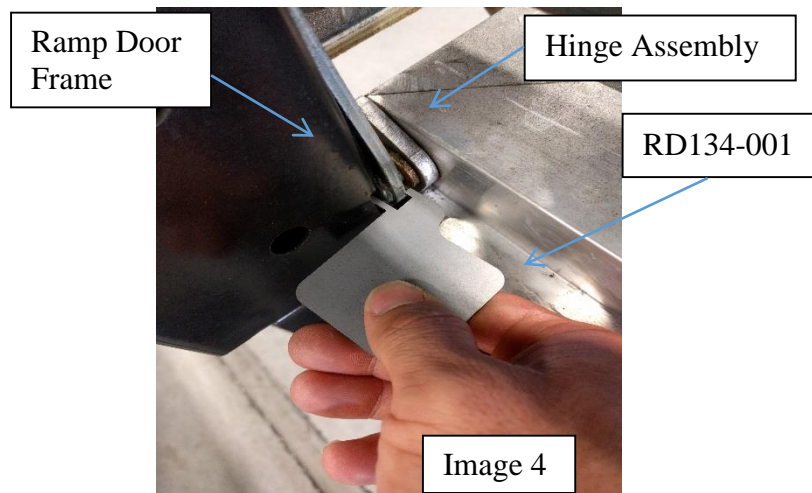
**Inspection Tool Required:**

MORryde inspection tool, part number RD134-001 (image 3). This inspection tool RD134-001 is cut out of 0.075" thick steel. Use caution not to bend the tabs during the inspection process.



**Inspection Objective:** Using MORryde inspection tool RD134-001, inspect for adequate puddle weld securing the Hinge Pin to the Hinge Plate.

**Inspection Procedure:** Use inspection tool, RD134-001 (Image 4). If the weld is found to be inadequate, the hinge assemblies will need to be replaced. This process should take no more than 15 minutes to inspect.



**Detailed Instructions:** After reviewing the YouTube link above, the first step that we recommend for inspecting the hinge assemblies is to remove the black caulk from the backside of the hinge. This will allow you to see the parts better. The inspection tool is then used to check the weld in 2 ways. Please note that you will want to check at multiple spots to find the high point of the puddle weld (see image 2 for puddle weld picture).

**Test 1:** Check the space between the cutout in the ramp door frame and the back side of the weld. The tab is inserted in that gap and pushed straight in to see if the tool will sit flush with the face of the frame (Image 5). Take care not try to twist the tool, the tab that gets inserted will bend.

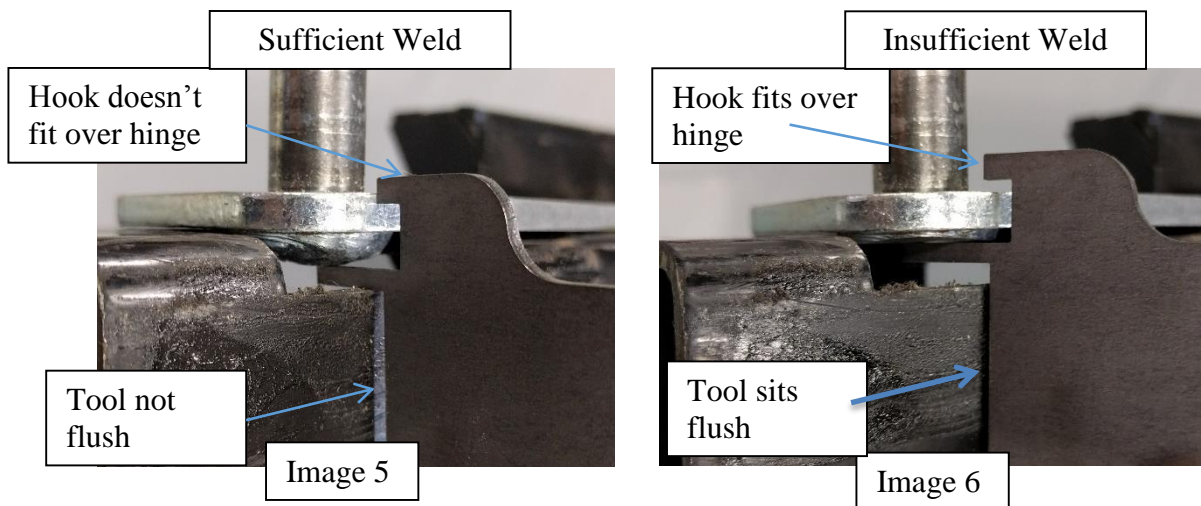
Pass: If the inspection tool does not sit flush then the weld is sufficient and passes the first test. You can stop here. The weld is sufficient and no repairs are necessary.

Fail: If the inspection tool sits flush then the weld is insufficient and the test is failed. Please perform test 2.

**Test 2:** The second way the tool checks the weld is if the tab goes in completely between the hinge and the frame. The hook checks to see if there is enough protrusion of the weld on the backside of the hinge assembly. (Image 5 and 6). The second test is only applicable if the hinge assembly fails the first test.

Pass: If the inspection tool doesn't fit over the hinge, then the weld is sufficient and passes this test. You can stop here. The weld is sufficient and no repairs are necessary.

Fail: If the inspection tool hook fits over the hinge and the tool is flush then the weld is insufficient and failed this test. **Please contact DRV customer service department immediately for repair.**



**Questions or to order parts:**

Contact **DRV Warranty/Service Department** by phone at 1-260-562-3500 or email [warranty@DRVsuites.com](mailto:warranty@DRVsuites.com)

**Parts**

MORryde inspection tool RD134-001 part # 0265531

**Warranty**

File Recall Repair warranty claim on the DRV portal using one of the following warranty codes:

Inspection only 99.02.07.L for .25 Hrs.

or

Hinge replacement 99.02.07.A for 1.0 Hrs.

**Please refer all questions and authorization requests to DRV Warranty/Service Department by phone at 1-260-562-3500**