

Back-Up Reverse System Installation Instructions

OBJet-Innovations

Thank you for choosing the Back-Up reverse system from Outboard Jet Innovations.

Designed for safer reversing experiences than traditional OEM systems, our system includes a new Back-Up bucket and pre-assembled linkages for easy retrofitting to your existing outboard unit.

Package Contents

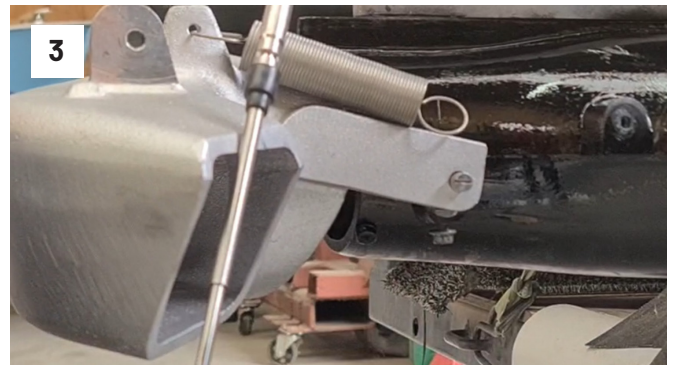
- Back-Up bucket Assembled Back-Up linkages with attached spring
- New stainless cable mount
- Bucket spring
- Back-Up forward linkage mounting cam
- Nuts, bolts & washers for installation

Preparation:

1. Unhook the forward/reverse cable from the existing cable nipple, **ensuring not to uninstall it from the reverse handle** as it will be reused for the Back-Up System.
2. Remove the standard reverse system components from the jet unit.

Installing the Back-Up Bucket:

3. Mount the Back-Up bucket using the original stainless mounting pins.
4. Retighten the locking bolts underneath into the provided flat slots securely.



Installing the Back-Up Linkage Assembly:

1. Attach the Back-Up linkage assembly with the cam adjuster to the old linkage boss on the unit. **Do not fully tighten yet.**
2. File a small 3-4mm chamfer on the unit boss if needed for smooth bucket operation (**file the boss, not the bucket**).
3. Bolt the rear of the linkage set to the bucket lug using thread locker compound. Tighten securely and lock the mounting bolt in place with the provided lock nut.
4. Adjust the cam until the linkages have neutral load. Apply thread locker compound to the alloy mounting boss and tighten securely.

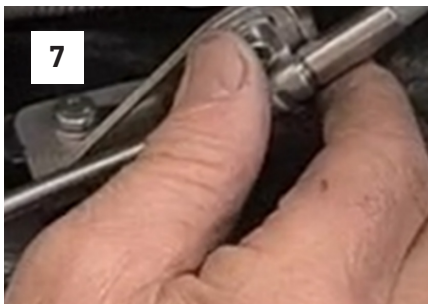
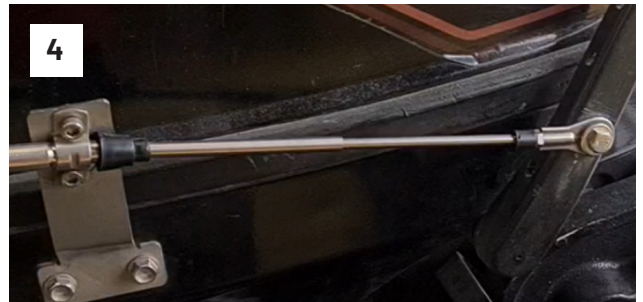
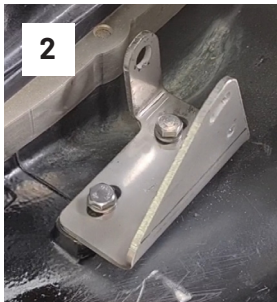


Replacing the Cable Mount:

1. Replace the discarded cable mount with the new one supplied, noting adjustment slots for fine-tuning.
2. Apply threadlocker to the bolts before replacing them. Do not fully tighten the mount bolts initially to allow for adjustment in the slots

Connecting the Cable:

3. Re-mount the lower cable to the new cable mount using the original cable saddle holes. Do not fully tighten yet.
4. With the bottom cable ball joint disconnected, place the gear shifter in its natural forward position.
5. Adjust the cable ball joint orientation to align with the locating nipple on the linkages. Tighten the small lock nut securely.
6. Adjust the cable mount into the correct position using the sliding slots for precise alignment of the unit nipple and cable ball joint.
7. Connect the cable ball joint to the corresponding nipple and securely tighten the bolts in the cable mount slots using thread locker compound if not previously applied.



Final Checks:

1. Manually move the bucket up and down with the forward/reverse lever in the forward position to ensure free movement in the linkages.
2. Stretch the large spring located at the bucket into its locating hole in the cable mount using an appropriate tool.

Your new Back-Up reverse system from OBJet Innovations is now installed. The bucket should operate forward and reverse, locking up and down as required to prevent accidental drops.



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The team at Outboard Jet Innovations hopes you enjoy using your new Back-Up reverse system. Head over to our social media and share your videos and pictures with us for a chance to be featured. Safe boating from the OBJET team!