



Sync Cylinder & Room Cylinder Replacement and Purge Instructions for Dual Cylinder Slides

Replacing the Sync Cylinder

1. Room should be in the extended state when sync cylinder is replaced.
2. Remove all hose connections at the cylinder and mark their locations.
3. Remove U bolts and cylinder will be free to remove from the coach.
4. Install new cylinder using existing U bolts.
5. Reconnect all hoses making sure they are in the correct location.
6. Check fluid level in reservoir is at appropriate level.
7. Press and hold the extend switch for the room until the pump makes a squeal sound (relief).
8. Press and hold the retract switch for the room until the room comes in fully and the pump makes a squeal sound (relief).
9. Check fluid level again.
10. Cycle the room. Fully extend and retract 3 times.
11. Verify that when the room is in the fully extended position that the sync cylinder is fully retracted.

If the room doesn't synchronize in either direction, do the following:

1. Start with room fully retracted and crack the 2 striped hoses (labeled CYL ROD) on the sync cylinder manifold. Only crack them enough to allow oil & air to bleed from the connection.
2. Press & hold the retract switch until all air is removed from the cylinder. Retighten the hose connections.
3. Fully extend the room. If the room synchronizes on extension then retract it. If the room synchronizes on retraction then the system should be working properly.
4. If room still doesn't synchronize contact Equalizer Systems for further instructions.

Replacing Room cylinders on Dual Cylinder Slide Systems

It is highly recommended that both Slide cylinders be replaced as pairs

There may be a cover screwed to the floor under the slide cylinders. If so, these must be removed prior to starting the process below.

1. Run the room out all the way so that it fully extended at both ends.
2. Remove the outer nuts that attach the cylinder rods to the moveable part of the slide mechanisms.
3. Using the slide control switch, retract the room cylinders (IN). It is important that that both come all the way in. Continue to operate switch for retract (IN) until the sync cylinder is full extended.

Note: After 1 minute of running the pump in retract, if the sync cylinder it is not fully extended disconnect the hoses from the room cylinders (carefully; the hose connections will be under high fluid pressure). If you perform item 4 here it will help relieve the fluid pressure. Place the hoses into a clean container (2 at each cylinder). Using the slide switch (IN), run the pump in 20 second intervals until the sync cylinder is fully extended. **This is important: The sync cylinder must be fully extended prior to connecting hoses to the new slide cylinders.**

4. Using the jack control panel extend the jacks. This will relieve some of the retract side fluid pressure.
5. Disconnect the hoses from the slide cylinders. Two on each cylinder. (Careful; they will be under high fluid pressure).
6. Remove the bolts or nuts at the base end of the cylinders (2) that hold the cylinders to the fixed part of the slide mechanism.
7. Remove the slide cylinders (2).
8. Remove fittings and tubes from the original cylinders and attach these items to the new cylinders.
9. Reinstall the cylinders (2). Install the bolt at the base of the cylinder. Do not fully tighten until the cylinder is rotated correctly with the ports positioned to the side as the original cylinders were.
10. Connect the hoses to the cylinders. The hose with the striped label must be attached to the rod end port. Items 5 thru 10 must be completed prior to going on to the next step.
11. Using the slide switch, press (IN) to run the pump in retract. Hold for 20 seconds.

12. Using the slide switch, press (OUT) to extend the slide cylinders. As the slide cylinders extend they will need to be guided so that the cylinder rods pass thru the hole in the moveable part of the mechanism. Do not allow the rod to push against the mechanism. If the rod does not pass thru the holes, the slide could be over-extended and could drop off of the ramp and could break the fascia on the inside. Extend them until both slide cylinders are fully extended.
13. Using the slide switch, press (IN). Continue to retract until both slide cylinders are fully retracted. Continue to press (IN) retract for additional 20 seconds.
14. Repeat items 12 and 13 three times. The cylinders should travel at the same rate within 2 inches of each other.
15. Install the push nut (removed from the original cylinders) onto the threaded part of the cylinder rod. Screw it all the way down.
16. Using the slide switch press (OUT) to extend the cylinder rod as in item 12 above.
17. Run the nut (item 15) out so that it is up against the moveable part of the mechanism.
18. Install the outer nut onto the cylinder rod tighten it securely.
19. Using the slide switch retract the room. After it is fully retracted at both ends continue to hold the switch (IN) for 20 seconds.
20. Extend and retract the room multiple times allowing time for the pump to cool. A rule of thumb is if the motor is too hot to leave your hand on it, then it should be allowed to cool. During this process observe the sync cylinder to make sure that when the room is fully extended that the sync cylinder is fully retracted. And the when the room is full retracted the sync cylinder is fully extended. Also observe the fluid in the reservoir. Add ATF (Dexron) if needed. If the reservoir fluid is foamy or has air bubbles in it, allow to disipate prior to running to help get the air out.

Call Equalizer Systems tech support if needed. Please make sure you have read these instructions thoroughly before doing so. 800-846-9659 ext 339