



# Triad Evo Slipper Assembly Instructions



## INSTALLATION STEPS: AV1020-MOD/STK/UK

- 1 Remove existing kit supplied slipper/spur gear assembly. For TLR 22/22T/22SCT, keep the red topshaft spacer installed. Remove your pinion gear and make sure your car is OFF.
- 2 Install black topshaft adapter as shown, large side facing outward.
- 3 Install 1 drive plate, with locating cutout facing toward the motor plate. This part will fit over the topshaft adapter to keep the plate centered on the topshaft.
- 4 Select the spur gear size for your application. STK kit includes a 72 and 76, the Mod kit includes an 81 and 84, and UK kit includes 78 and 81 Triad spur gear.
- 5 Press 1 slipper pad into each side of the spur gear. Note that the spur gear sides are labeled 1 and 2, with side 2 designating the taller outer side which uses 2 drive plates. Install the spur gear with pads onto the topshaft with the tall side facing out.
- 6 On side 2 of the spur gear, add 1 drive plate (as shown with cutout facing outward), install the last slipper pad, and \*\* lastly install the final drive plate with the vents lined up with the other plate and locating cutout facing outward.
- 7 Install the spring and correct spring adapter (Kit includes B5/B5M and B4/TLR). Use the manufacturer supplied slipper nut (We recommends using a new nut).
- 8 Tighten the nut until all parts are clamped together. To get a close setting, try turning the spur gear with your fingers while holding the rear tires. Slowly tighten the nut, re-checking the amount of drag until it is difficult to turn by hand, but not locked. Re-install the pinion, set gear mesh, install your gear cover, and get your car ready to run. Then refer to "Setting and Maintenance" on the other side.
- 9 \* Triad Set shim bag: For the B5 use the larger silver spring adapter that goes around our spring, the other silver spring adapter that fits into our spring is for the B4 and TLR22. Use the thin shims on a B44.1 (all 3) or B44.2 (only 1) OR if in the wierd case that your slipper inner plate is rubbing the motor plate you can shim it out or flip the first drive plate. The thick shim is a spring spacer for TLR22 vehicles who have a "long" topshaft where the slipper adjustment nut bottoms out before you can get the spring clamped to the proper tension.

\*\* If you choose to use the centering washers included in your shim bag, in step 6, after putting on the last slipper pad, find the 2 flat washers and 1 cone washer. Install them onto the topshaft (flat-cone-flat). Now place the last drive plate on with centering cutout facing the spur so the washer may keep it centered if not using Evo plates.



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- Warning:** Don't over-heat the slipper clutch. Setting the clutch by fixing the rear wheels is extremely stressful and you should only do short bursts of throttle to check the setting. If you cannot get the setting after 3 checks, let your slipper clutch cool for 5 minutes and then re-check. AVID is not responsible for over-heating the clutch from excessive full-throttle and fixed wheel slipper action.
- Setting Procedure:** Pre-set the spring tension as recommended to get the slipper setting close. Get your car ready to run and remove the slipper adjustment plug (to give access to the adjustment nut). There are 2 recommended methods to set your clutch, the track test and the popular "wheelie" test.

First, the track test (recommended for 17.5, SC, and stock racers). This is the least stressful method since your tires can slip against the track surface if the clutch is too tight. In a secluded area of the track (or you can substitute astro-turf or a parking lot), stand near your car and do some punch-off starts. Adjust the tension so that you can hear the clutch slipping for only 1-2 feet on launch from a stand-still. Also, you should have good power for the jumps. If your clutch makes a high pitch slipping sound for more than 2 feet, tighten it to get the correct setting. Re-check your clutch after the first 2 runs.

Second, the wheelie test should be used for Mod Racers only. Hold both rear tires and slowly apply the throttle 1-2 seconds to confirm the clutch is slipping (not a full throttle burst). If you can hear the clutch slipping, then try a quick burst to full throttle. The goal is to set the clutch so that there is enough drag to lift the front tires about 2 inches (50mm) off of the table. Try tightening the nut if needed to increase the drag and re-check. Adjust to get the desired result, taking breaks to let the clutch cool after every 3 full throttle burst checks. With new pads, there will initially be a bit more drag until they are broken in... so re-check your clutch after the first 2 runs.

- Cleaning:** As the slipper pads break-in and wear, a small amount of white PTFE powder is normal as the pads wear. You can brush off any excess in-between re-builds.
- Typical Maintenance Schedule:**  
Every week: remove gear cover for visual inspection; brush off any white powder from the pads.

Every month: Manually spin gear when holding rear tires to confirm smooth operation. If clutch is tight or rough operating, remove all parts and replace worn components.

Every 1-2 months (or 8 track days): Remove nut and all components. Check pads for wear. Replace slipper pads if there is any discoloration, dirt contamination, or noticeable wear.

\*Change spur gears as needed. With a good quality pinion gear, you can run a spur gear for months.

Part Number	Description	Qty
AV1020-MOD	Triad Slipper Kit, Mod Racer	Kit
AV1020-STK	Triad Slipper Kit, Stock Racer	Kit
AV1020-1	Drive Plates	3
AV1020-1-V2	Drive Plates   Evo	3
AV1020-2	Triad Drive Pads	3
AV1020-2-R	Triad Drive Pads   Red	3
AV1020-SPR	Triad Spring, Shims and Adapter Set	Kit
AV1020-DUR-UPGRADE	Durango Triad Upgrade Pack	Pack
AV1020-TOP-DUR	Triad Durango Topshaft	1
AV1020-DUR-COVER	Durango Gear Cover	1
AV1020-1-DUR	Triad Drive Plate, DEX210 Outer	1

Part Number	Description	Qty
AV1020-66	Triad Slipper Gear, 66 T	1
AV1020-69	Triad Slipper Gear, 69 T	1
AV1020-72	Triad Slipper Gear, 72 T	1
AV1020-75	Triad Slipper Gear, 75 T	1
AV1020-76	Triad Slipper Gear, 76 T	1
AV1020-78	Triad Slipper Gear, 78 T	1
AV1020-81	Triad Slipper Gear, 81 T	1
AV1020-84	Triad Slipper Gear, 84 T	1
AV1020-87	Triad Slipper Gear, 87 T	1