



MFACTORY METAL PLATE LSD SETUP

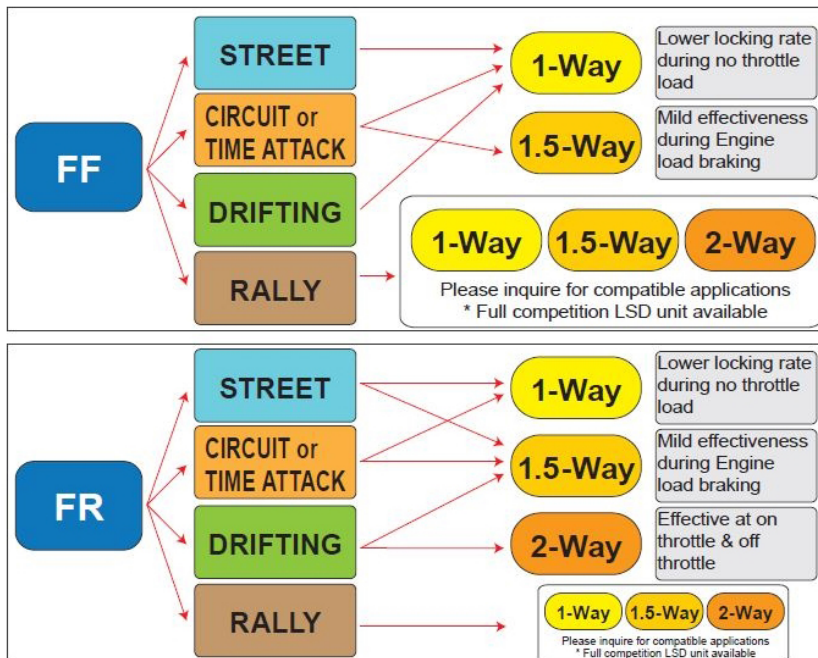
When the LSD is delivered, it will have the ring gear bolts loosely threaded into the bolt holes. These should be removed before installing the ring gear, then reinstalled with Loctite Red to approx. 60-65lbs torque. Be very careful not to over-torque the bolts, as doing so may damage the threads on the LSD. This will NOT be covered under warranty.

The LSDs are supplied in the following setup:

If you order a 1.0/1.5, it will be delivered to you in the 1.5 way format at 100% lock capacity. If you order a 1.5/2.0, it will be delivered to you in the 2.0 way format at 100% lock capacity

1.0 has 45/0 degree or a 55/0 degree switchable ramp
 1.0/1.5 has 55/0 degrees or a 45/22.5 degree switchable ramp
 1.5/2.0 has 45/22.5 degrees or a 45/45 degree switchable ramp

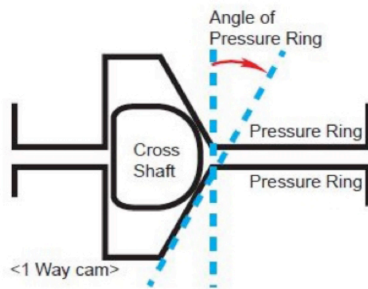
The first step should be to decide the setup you plan to run.



To change the "way" of the LSD for example from a 1.0 to a 1.5 you have to open the LSD. To do this remove the screws and pull the two sections apart. Once open, revolve the cam/adaptor to the position shown in the diagram below. The cross-pin needs to have the rounded part pointing the opposite way to the diffs



rotation. For example, the Honda K20 engine spins clockwise when looking down on the diff so the cross pin should point to the right. The orientation of the cam is changed depending on your needs, generally you would want more aggressive on the acceleration side (the higher the angle from the Y axis the more aggressive it will be)



Initial preload is around 85lb. To change the preload, you need to remove or add springs, (there must be equal numbers i.e. 4, 6, 8, 10, 12). Unfortunately, the only way to check the preload value is to use a torque wrench with a special tool that is inserted into the LSD (like an axle shaft). This is available for purchase separately. The more preload you have, the less the LSD will slip under low torque conditions. (6 springs will provide approximately 55lbs)

To change the lock capacity, the discs should be stacked a certain way. The higher the percentage the more aggressive the LSD will perform in a corner (how much it pulls you in to the corner).

A - Plates with External Ears I - Plates with Internal Ears

20 Plate Setups:

- 5 active - 100% (A/I/A/I/A/I/A/I/A/I)
- 4 active - 80% (AA/II/A/I/A/I/A/I)
- 3 active - 60% (AA/II/AA/II/A/I)
- 2 active - 40% (AAA/III/AA/I/I)
- 1 active - 20% (AAAAA/IIIII)

16 Plate Setups:

- 4 active - 100% (A/I/A/I/A/I/A/I)
- 3 active - 75% (AA/II/A/I/A/I)
- 2 active - 50% (AA/II/AA/II)
- 1 active - 25% (AAAA/IIII)

12 Plate Setups:

- 3 active - 100% (A/I/A/I/A/I)
- 2 active - 66% (AA/II/A/I)
- 1 active - 33% (AAA/III)