



MFACTORY METAL PLATE LSD SETUP

When the LSD is delivered it has shipping screws installed. These should be removed and the ring gear bolts installed to hold it together. These should be torqued to 75lbs.

The LSDs are supplied in the following setup:

If you order a 1.0/1.5 then it will be delivered to you in the 1.5 way format with 100% lock plates.

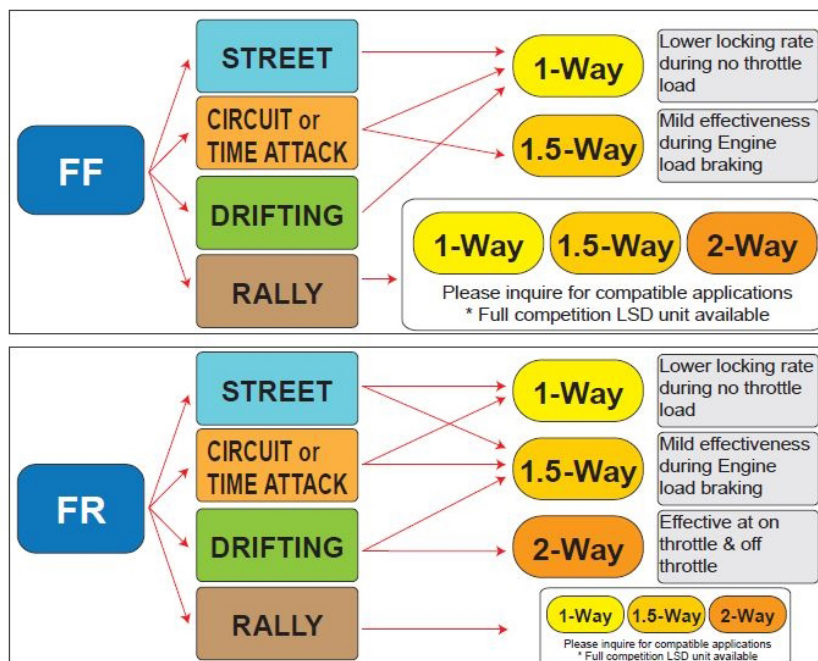
If you order a 1.5/2.0 then it will be delivered to you in the 2.0 way format with 100% lock plates.

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

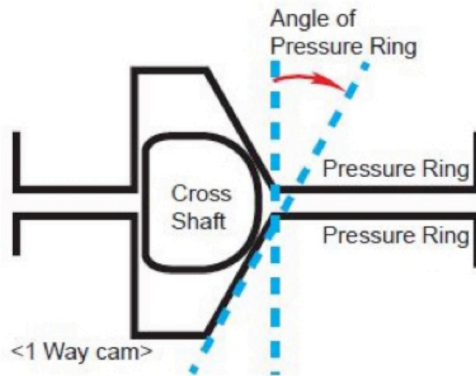
The first step should be to decide the setup you plan to run.



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 shipping 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 axes the more aggressive)



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). The more preload you have set the quicker the onset of lock. (6 springs will provide approximately 55lbs)

To change the locking percentage the discs should be stacked in 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).

For LSD's with 10 plates on each side (e.g BMW, Toyota etc), 5 active (the plates with the external ears), and 5 internal (the plates with internal ears)

- 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/IIII)

for LSD's with 6 plates on each side (e.g Honda), 3 active plates and 3 internal plates

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

FOR SERVICE INTERVALS PLEASE CHECK THE PLATE THICKNESS. THEY SHOULD BE AT LEAST 1.58MM