



Dynamic C-4 2.90 Rear Planetary Set

Dynamic Racing Transmissions has designed this gear set from a clean sheet of paper, combining different components and custom machined parts to produce the final product.

Built, tested, and track-proven, this is true hard core componentry, Extremely effective in helping low HP drag cars to improved 60 ft's while eliminating the need to change the final drive ratio. Superior launches are realized and the 1 to 1 3rd gear is maintained. Has also proved valuable in off road applications

Kit Contents

1) 4 Pinion Planetary	1) 2.90 Sun Gear
1) Planetary Hub	1) Planetary Thrust Washers
1) Planetary Hub Bearing	1) Hub Bearing Spacer
2) .030" Thrust Washers	1) Torrington Needle Bearing
5) Friction Discs	5) Steels

Installation

1. Remove the stock gear set assembly from the transmission. This includes the Rear Drum, Drive Hub, Stock Planetary and Sun Shell Assembly.
2. Discard the Stock Planetary, Drive Hub and the two Thrust washers that sandwich the planetary.
3. Remove the stock sun Gear from the Sun shell by removing the circlip located around the sun gear, inside the sun shell.
4. Slide the old gear out of the Sun Shell, remembering to retain the thin washer on the front of the shell.

Dynamic Racing Transmissions LLC
104-5 Enterprise Drive Unit 1
North Branford CT 06471
203-315-0138 Fax 203-315-0352
www.dynamicracetrans.com



5. Thoroughly clean the Sun Shell and the thin washer. At this time you may replace your Sun Shell with one of Dynamic's Polished Lightened Sun Shell's P/N DA4DS1
6. Take the new 2.90 Sun Gear and install the small end through the sunshell so that the top clip near the large gear is resting inside the shell.



7. Now, place the stock Sun Gear Washer over the small end of the gear. Lock it in place using the snap ring removed from the stock sun gear assembly, so it sits against the washer. Be sure it seats in the groove firmly.



Dynamic Racing Transmissions LLC
104-5 Enterprise Drive Unit 1
North Branford CT 06471
203-315-0138 Fax 203-315-0352
www.dynamicracetrans.com

8. Place the supplied small 4 tang Thrust Washer inside of the 4 Pinion Planetary. Use Transgel or petroleum jelly to hold it in place.



9. Next, place one of the supplied .030" thrust washers on the front of the 4 Pinion Planetary, followed by the Torrington Needle Bearing, then the last .030" thrust washer. Use lube to hold in place.

10. Now Place the 4 Pinion Planetary over the large gear inside the sun shell, rotating to mesh the gears.

11. Next, place the Ring Gear hub over the 4 pinion planetary, rotating to mesh the gears.

12. Install the gold step bushing onto the end of the hub so that it sits flush with the hub.

13. Place the supplied roller thrust bearing onto the gold step bushing with the black side of the bearing facing the gold bushing.

Your final assembly should look like this



Dynamic Racing Transmissions LLC
104-5 Enterprise Drive Unit 1
North Branford CT 06471
203-315-0138 Fax 203-315-0352
www.dynamicracetrans.com

14. Using the supplied clutches and discs, assemble the Forward drum.
15. Reassemble the unit into the transmission following the normal assembly procedures.

2.90 SUN GEAR



SMALL THRUST WASHER



PLANETARY GEAR



Torrington Washers & Bearing



PLANETARY HUB



HUB BEARING SPACER



THRUST BEARING



Dynamic Racing Transmissions LLC
104-5 Enterprise Drive Unit 1
North Branford CT 06471
203-315-0138 Fax 203-315-0352
www.dynamicroacetans.com