



## Replacement Part Information

The Ford Racing FR500S is a non-production, non-VIN vehicle that is built with a combination of production Mustang, Ford Racing, and other aftermarket components. This document provides the information needed to source replacement parts.

The FR500S is based on a **2008 Ford Mustang GT, equipped with a 4.6L 3V engine, manual transmission, spoiler delete, and no options.** Where applicable for service parts, the FR500S is an **early build vehicle, with a build date of August, 2007.** Unless otherwise specified below, use this vehicle description to find the proper parts for a FR500S.

For the following components and systems, substitutions were made from other Mustang models. A complete parts list, including non-production Mustang parts, is attached (see Parts\_List\_FR500S).

### Suspension

Front Lower Control Arms - Shelby GT500

Rear Lower Control Arms - Shelby GT500

"Point 4" Suspension Brace - Normally only used on convertible and GT500 models

Wheels - Shelby GT500

Lug Nuts - Ford Racing

### Brake System

Brake Booster - Shelby GT500

Brake Master Cylinder - Shelby GT500

Rear Calipers - Shelby GT500

ABS HCU (Hydraulic Control Unit) - Shelby GT500 (note that the ECU is a unique to the FR500S)

### Transmission/Clutch/Driveline

Transmission - Shelby GT500

Transmission Mount - Shelby GT500

Shifter - Ford Racing

Shifter Seal Plate (interior) - Shelby GT500

Clutch Disc - Ford Racing

Clutch Fluid Line - Shelby GT500

Driveshaft - Shelby GT500

(Flywheel and Pressure plate are production 2008 Mustang GT)

### Wiring & Electrical

Headlight Switch - V6 without Foglights

Front Headlight Wiring Harness - V6 without Foglights

Body Wiring Harness - de-contented version of production body wiring harness

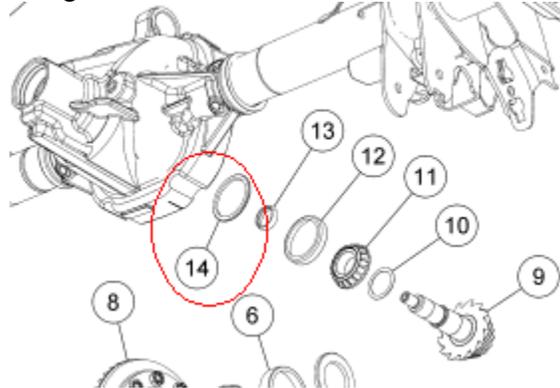
## Body

Fenders - V6 (no holes for badges)  
Rear Fascia - GT/CS (California Special)  
Wiper Arms and Blades - Shelby GT500

## Axle

The axle assembly is from a 2008 Mustang Bullitt (with 3.73 ratio), and is further modified by changing the differential, axle cover, and wheelstuds.

Note that there are two types of pinion bearings used in 2008 Mustangs. Base and GT models use a standard style bearing; Bullitt and Shelby GT500 models use a "high-torque" bearing that requires a shim for the inner bearing cup (Part #14 in the diagram below). The axle housings and gearsets are otherwise identical, and either style of bearing can be used, as long as the shim is used/not used as required.



## Where to buy parts

In the attached parts list there are several types of parts listed.

- Parts listed under the "Service P/N" column are production parts available through Ford dealers and the Ford Racing Mustang Challenge (FRMC) support trailer.
- Parts listed under the "FR P/N" column are Ford Racing parts that are available through any Ford Racing retailer (independent retailers or any Ford dealer) and the FRMC support trailer.
- Parts without service or FR part numbers will be available through the FRMC support trailer, or contact the Ford Racing Techline
- Contact the Ford Racing Techline at **800-FORD-788** for any questions or parts not listed.