



BULLY DOG



FORD POWER PUP Gasoline Downloader

The Power Pup Downloader is a programmer/tuner that downloads horsepower and performance enhancing programs into 2004-2008 Ford F-150s with either a 4.6 liter or 5.4 liter V8 engine in one SKU (stock keeping unit). The downloader offers two different Engine Tunes above stock to accommodate various driving conditions; read below for recommended use.

Engine Tuning Programs

The engine tuning options below describe what tunes are available through the Power Pup and their recommended use.

• **Stock:** Choosing the Stock engine tune will result in no change to engine horsepower output. All other downloader features can still be accessed if the Stock engine tune is chosen.

• **Regular:** This engine tune is recommended for use with 85 or 87 octane gasoline. For maximum effectiveness end users should increase shift firmness and shift points. This tune can be used for everyday driving and towing. Dynamometer testing results have shown a 10-12hp increase in rear wheel horsepower.

• **Premium:** This engine tune is recommended for use with 91 or 93 octane gasoline. It is recommended that shift firmness and shift points be raised with this engine tune. This tune can be used for everyday driving, towing and racing. Dynamometer testing results have shown up to 22 horsepower and 24 lbs. ft. torque increase, on the premium tune, to the rear wheels.

POWER PUP DOWNLOADER FEATURES:

Transmission Tuning

The Transmission tuning feature allows the user the ability to increase shift firmness which will help shifts become more positive, firm, and quick. Users will choose between the following two options:

- **Firm:** increase shift firmness and modifies shift points, recommended for regular and premium engine tunes.
- **Stock:** Produces no change in shift firmness.

Transmission Shift Points

Transmission shift points can be adjusted between each gear; adjust shift points from 4400 rpm up to 5800 rpm. Setting the transmission shift point will only effect the shift point under full throttle, the vehicle will shift at a lower rpm under a lower throttle percentage. Changing these shift points only effects the highest limit to which the vehicle can reach before shifting.

Speed Limiter

The stock OEM speed limiter will limit the vehicle to a top speed that is determined by the OEM. The Power Pup speed limiter function allows the user to adjust the vehicles top speed from 40 mph to 126 mph in increments of 2mph. The OEM speed limiter will be displayed on the power pup screen when the user opts to change their speed limiter. The vehicle speed limiter should only be adjusted upward for racing purposes and should never be used upon a public road or highway.

Calibrate OEM Speedometers:

If an aftermarket tire with a different larger or smaller diameter than the OEM is installed on the vehicle it will throw off certain vehicle functions. Included in those functions are the OEM speedometer and the odometer. The Power Pup can tell the vehicle computer exactly what size of tire the vehicle is running and therefore the vehicle can read speed and distance correctly.

Diagnostic Trouble Codes

The Power Pup can read and erase diagnostic trouble codes, codes should be checked periodically and whenever a warning light appears on the vehicle dash. Visit: www.bullydog.com/DTC.php for trouble code meaning and interpretation. The trouble codes that are commonly seen on vehicles are described on the Power Pup screen, so it is not necessary for the end user to refer to the website.

How To:

- **Install the Power Pup:** The Power Pup plugs into the OBDII port beneath your steering column for programming.
- **Transfer to a new vehicle:** Return current vehicle to stock, update the downloader online and check for new vehicle compatibility, and then install on new vehicle.
- **Update Online:** Internet updates are made available when new calibrations are developed and when new vehicle applications become available. Internet updates are available through our download center. Vehicle must be downloaded back to stock before the downloader can be updated. To access the latest updates visit www.bullydog.com/Download_Center.php, the Bully Dog Download Center.

POWER PUP DOWNLOADER

VEHICLE APPLICATIONS	Hp/Torque	PART #	Packaging Weight	Packaging Dimension	UPC Code
Ford F-150 (4.6L, 5.4L) '04-'08	+23.5 hp/+30 ft.-lbs	41590	2lbs.	10.5X8.5X3	681018415903

PRODUCT INFORMATION SHEET