

EURO+DRIVE OBDII FLASH TUNING - FIAT 500 NA 1.4L MULTI AIR



ABOUT EURO+DRIVE:

EUROCOMPULSION is proud to present the ultimate engine control unit (ECU) upgrade for the Fiat 500 1.4L Multiair platform. This flash tune upgrade is available in octane-specific variations, bolt on specific calibrations, and is conveniently flashed to the vehicle's factory ECU through the OBD-II port without any physical modification to the factory ECU. Each map written to the ECU is calibrated exclusively for your exact ECU file and vehicle VIN.

The Magnetti Marelli ECU is responsible for the intelligent operation of the 1.4L Multiair during constantly changing environmental and load conditions. Using compensational data for environmental variables and other various running conditions, the 500's factory ECU is far more complex and intelligent than many other units in the automotive market.

Using dynotesting and various road test scenarios, we've gained an extensive understanding of the 500's torque structure, both for the manual and automatic transmissions. This upgrade focuses on increased positive range of transmission shift points, while utilizing control over ignition timing and lambda behavior for productive power output without stifling the engine's efficiency, reliability, or drivability. All factory knock controls and built in safety features are absolutely maintained with this upgrade.



**TORQUE**

The ECU's Torque Management system regulates torque under varying conditions both in the AT and MT setups. We increased these limits to allow for consistent power delivery and aggressive throttle response as provided with our calibrations.



**OEM QUALITY PERFORMANCE**

Our primary goal with this tune was to improve upon drivability, smoothness, and linear pull over the stock tune. We did just that, and mastered the inconsistencies of the stock powerband, giving it consistent smoothness and finesse.

EURO+DRIVE:

The EURO+DRIVE Phase 1 for the Fiat 500 NA is designed to work without any required engine hardware upgrades. It will also accommodate standard 91 octane pump gas, as well as 93 octane levels.

Phase 1 includes:

**Phase 1 (Base Tune) 91/93 Octane**

**Phase 1+**

-Throttle enhancement, maximized torque output, aggressive shift points and raised top speed power limiter.

**Stock File (always included)**

EURO+DRIVE FLASH TIMES: READ (5 MIN.) WRITE (25 MIN.)



**THROTTLE BOOSTER ENHANCEMENT**

Aside from power and torque enhancements, we also wanted to eliminate dreadful tip-in and throttle lag commonly known on the Fiat 500. We can now fully control this feature to any comfort or liking.



**TRANSMISSION RANGE**

For the automatic 500, we have adjusted positive shift range throughout the RPM range, giving the car a more aggressive feel when shifting. This change also allows for an efficient distribution of torque to the wheels across the powerband.

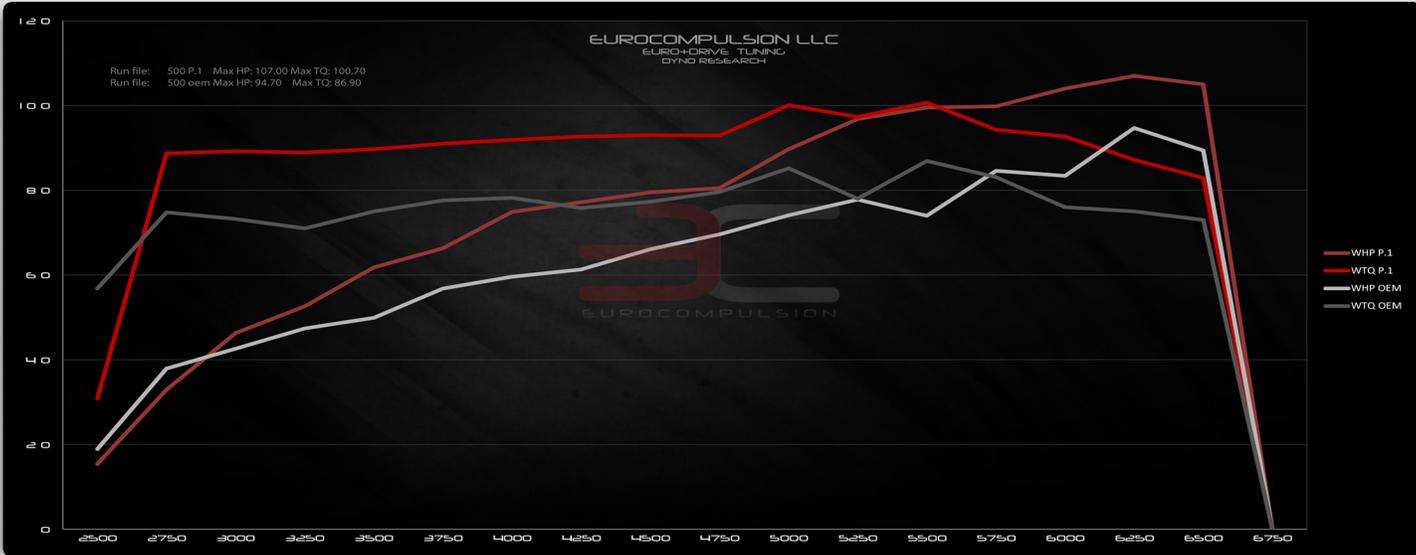


**POWER/SPEED LIMITER REMOVAL**

Our Phase 1+ map removes the power limiter governed by the 500<sup>th</sup> ECU at a top speed of 125mph to 160mph.



EURO+DRIVE:	STOCK	PHASE 1	PERFORMANCE
Peak Horsepower (WHP)	94.7	107.0	
	@6300rpm	@6300rpm	
Peak Torque (ft/lb)(WTQ)	86.9	100.7	
	@5500rpm	@5100rpm	



-Please note, manufacturers issue many ECU part numbers and revisions throughout their vehicle lineup. As such, some ECU part numbers may be temporarily unavailable when new parts or revisions are released. If the vehicle's ECU box code and revision is known, availability can be checked by calling EUROCOMPULSION LLC.

-Reported wheel figures measured on Road Dynamometer with a US Spec 2013 Fiat 500 (NA) Sport AT, using no correction and a performing of multiple runs. Results will vary depending upon environmental conditions, vehicle, transmission, vehicle health, operating conditions, temperatures, fuel grade, dyno type, dyno setup, and other modifications.