

## The High Performance 360 Police Engine

The engine option used in the Dodge Li'l Red Express trucks was known as the "EH1" option.

On the **1978 Equipment ID Label** it is listed as:  
**EH1 - 360 4BBL SPECIAL ENGINE** (Canadian Label)

On the **1979 Equipment ID Label**, it is listed as:  
**EH1 - 360 ENG 8 CYL 360-1 HI PER** (U.S. Label)

Both engines were produced at the Windsor Engine plant in Canada and are basically identical. They were a modified version of the E58 "High Performance" Police engines. The 1979 engine did have a few more pollution controls than the 1978, but had very little, if any, effect on the performance of the engines, since in 1979, the pollution requirements weren't near what they were in later years. Horsepower was rated 225 net @ 3800 RPM and Torque was rated 295 lb/ft @ 3200 RPM. The same specifications were used for both year engines.

The engine information is stamped on the front of the block on the driver's side and will either start with:  
1978 engine 8W360ITXXXX (last 4 digits is the build date)  
1979 engine 9W360ITXXXX  
1<sup>st</sup> digit – year  
2<sup>nd</sup> digit – Windsor plant  
3<sup>rd</sup> digits – factory ID info  
4<sup>th</sup> digits – build date, Chrysler 10,000-day calendar.

One of the big differences in the 360 blocks, over the 340 blocks was the significantly beefier bottom end, with wider spaced main bearing caps.

The other items that made the E58 engine unique were:

1. Silichrome-1 hi-temp intake valves
2. Nimonic alloy exhaust valves in the heads
3. Hi-strength rocker arms (hemi-style)
4. HD chrome piston oil rings
5. Upgraded valve springs
6. Hot alkali cleaned cylinder heads
7. HD water pump
8. Double-row roller timing set
9. Hi-temp valve stem seals
10. 1968 340 Purple Shaft Cam (see specs below)
11. 850CFM Thermoquad carburetor
12. E58 Cylinder heads
13. Dual Plane Semi-Hi Rise intake manifold

### **1968 340 Automatic Purple Cam Specs.**

Original Dodge part number # 2899206, used in the 1968 340 with the automatic transmission.

268° intake duration,

276° exhaust duration

Duration @.050 intake 228 exhaust 235

LSA/ICL 114/114 (Load Separation in Degrees/ Centerline)

44° overlap

0.429 intake lift

0.444 exhaust lift

***John C. Roberts (Lil Red Dad) Co-Founder & Senior Judge,  
NALRETO (National Association of Li'l Red Express Truck  
Owners)***