

Research and Information Department
FORD MOTOR COMPANY
Dearborn, Michigan

Edsel Engines and Transmissions

In its new 1959 automobiles, Edsel offers a complete line of four different engines of proved durability, economy and performance, coupled with transmissions to meet every driving requirement.

All four engines are of modern overhead valve, short-stroke design which provides more efficient combustion and cuts friction loss to a minimum.

Edsel's transmissions include the versatile dual range Select-O-Matic Drive, the rugged manual transmission, and the Mile-O-Matic Drive, an entirely new economy automatic two-speed transmission.

Standard V-8 in the Ranger series is the 292-cubic-inch Ranger V-8 engine. It has been introduced in the Edsel line to meet the economy demands of today's market. This light-weight engine operates on standard gasoline. With a compression ratio of 8.8 to 1 and a torque of 285 foot pounds at 2200 rpm, the Ranger V-8 develops 200 hp. The combination of smaller displacement and lower compression ratio produces real economy by getting more miles per gallon at the lower cost of regular gasoline.

The Express V-8 displaces 332 cu. in., and develops 225 hp. It also operates on regular fuel and is the standard V-8 for all station wagons and the Corsair.

High performance engine for the Edsel is the 361 cu. in. Super Express V-8. Optional on all models, the Super Express develops 303 hp on premium fuel.

For Edsel buyers who want the maximum economy, Edsel offers the most modern Six in the industry. The 145 hp Economy Six, with 223 cu. in. displacement, has oversquare bore and stroke which cuts friction by reducing

the distance pistons travel to power the car, and overhead valving for most efficient combustion and breathing. The Economy Six operates on standard gasoline.

Edsel's new Mile-O-Matic Drive has over 100 fewer parts and through greater use of aluminum is 50 pounds lighter than conventional automatic transmissions. It combines the tested principles of torque converter and planetary gears. The driver has the choice of two forward speeds -- low and drive -- plus reverse, neutral and park.

Select-O-Matic Drive is designed for use with the Super Express V-8. It gives the owner the choice of two drive ranges, the first providing a smooth 1-2-3 upshift for top acceleration, the second starting in intermediate and shifting automatically to drive. A special one-way clutch and other refinements make gear shifts imperceptibly smooth. Kickdown passing is provided in either range.

For those who prefer manual shifting, Edsel offers a three-speed synchromesh transmission with helical gears for quiet, smooth operation.

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1959 Edsel Specifications

| | <u>Ranger & Corsair*</u> | <u>Station Wagon (6-pass.)</u> |
|---|------------------------------|--------------------------------|
| Front headroom** | 38.8 | 39.5 |
| Rear headroom** | 37.6 | 38.1 |
| Overall height | 56.0 | 57.8 |
| Wheelbase | 120. | 118. |
| Overall length | 210.8 | 210.1 |
| Overall width | 79.8 | 79.8 |
| Tread, front | 59.0 | 59.0 |
| rear | 56.4 | 56.4 |
| Leg room, front** | 44.8 | 44.8 |
| rear** | 42.7 | 41.8 |
| Shoulder room, front | 56.7 | 56.7 |
| rear | 57.0 | 57.0 |
| Hip room, front | 60.5 | 60.4 |
| rear | 60.5 | 60.4 |
| Trunk capacity | 32.0 | - |
| Length floor (back of front seat to tailgate closed) | - | 94.35 |

* Four door hardtop

** Effective

Engines

| | <u>Economy Six</u> | <u>Ranger V-8</u> | <u>Express V-8</u> | <u>Super Express V-8</u> |
|---------------|--------------------|-------------------|--------------------|--------------------------|
| Displacement | 223 | 292 | 332 | 361 |
| Bore & Stroke | 3.62X3.60 | 3.75X3.30 | 4X3.30 | 4.05X3.50 |
| C.R. | 8.4:1 | 8.8:1 | 8.9:1 | 9.6:1 |
| Brake H.P. | 145/4000 | 200/4400 | 225/4400 | 303/4600 |
| Carburetion | IV | 2V | 2V | 4V |
| Gasoline | Reg. | Reg. | Reg. | Premium |
| Torque | 206/2200 | 285/2200 | 325/2200 | 390/2900 |

Miscellaneous

| | | |
|----------------------|----------------------|-------------------------|
| Tire Size | 7.50 x 14 (Ranger) | 8.00 x 14 (Corsair) |
| Cooling system (V-8) | 20 qt. (with heater) | 19 qt. (without heater) |
| Brake lining area | 191.1 square inches | |
| Turning diameter | 44.0 ft. (est.) | |
| Fuel tank capacity | 20 gals. | |