

Escort Mexico and
Escort RS1600
from Ford
Advanced Vehicle
Operations



The Body

The Escort Mexico and the Escort RS 1600 are manufactured by Ford Advanced Vehicle Operations—a specialist division of Ford, with its own production line. Advanced Vehicle Operations was set up in 1970 and is staffed by 250 professional enthusiasts who provide really strong back up for the special network of Rallye Sport Dealers who sell Advanced Vehicle Operations' products.

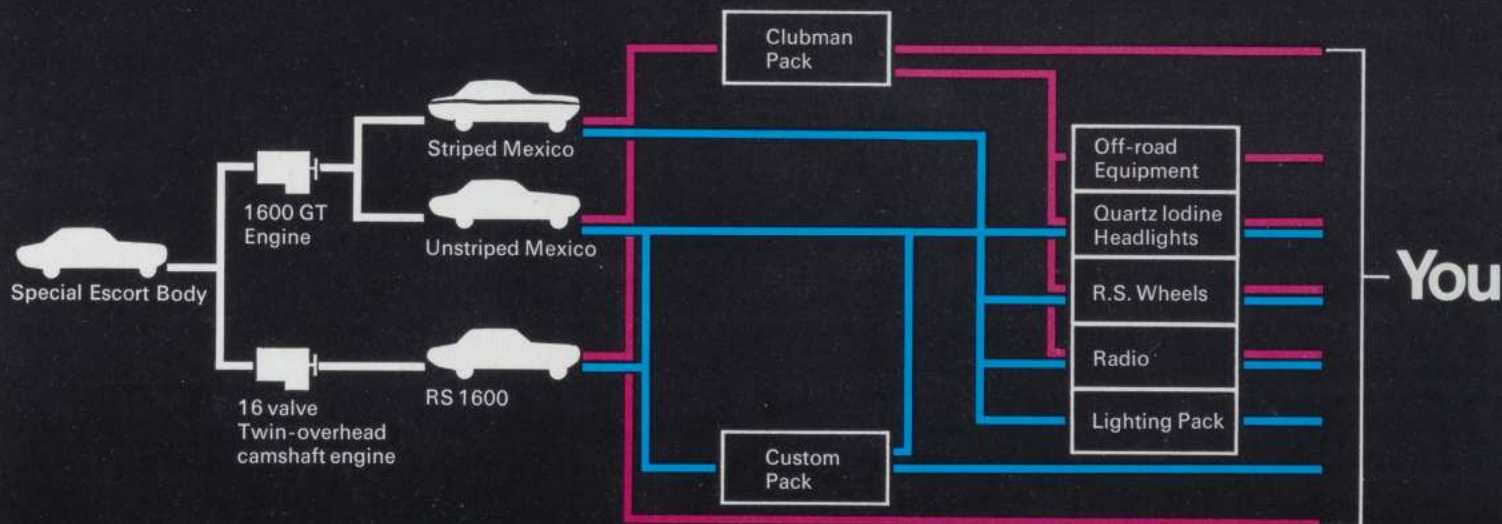
The Escort Mexico and Escort RS 1600 share a common body: but the body itself is something special. Evolved over innumerable rallies and finally proved on the London-Mexico trip, this body has inbuilt, the know-how we've gained from these trials. It features:—

1. Flared front wings.
2. Quarter bumpers.
3. Strengthened chassis rails.
4. Strengthened flitch plates.
5. Reinforced front suspension strut top mounting plates.
6. Rear radius rods.
7. Rear stone deflector plate.

And it's not only the body that differs from other Escorts. The suspension has come in for treatment too, with heavy duty front struts and rear shock absorbers and beefed up springs all round. Brakes are enormous $9\frac{1}{2}$ " discs at the front, with 9" drums at the rear coupled to a powerful vacuum servo unit aimed at achieving maximum stopping performance consistent with light pedal pressure.

Even the transmission's special; drive comes through a three rail shift, close ratio, heavy-duty gearbox to a heavy-duty rear axle with uprated half shafts, and finally to $5\frac{1}{2}$ " J x 13" safety ledge wheels shod with 165 x 13 radial ply tyres.

Having got the basic body, suspension, brakes and transmission, from now on, the choice is up to you ...



The Engines

Escort Mexico

The engine in the Escort Mexico is the 1600 cc GT crossflow series unit, which has been well proved in both Cortina and Capri GT as well as in Formula Ford racing cars. With a power output of 86 PS (DIN), this lusty engine propels the car from 0 to 60 mph in 10.7 secs. and takes it comfortably over 100 mph, while still returning 27 mpg (*Autocar* 9/9/71)



Escort RS 1600

The engine in the Escort RS 1600 represents a radical approach to performance car engineering. Instead of tuning a production engine, in this case, the engine is a productionised version of a racing engine and gives 115 PS (DIN). It is based on the Formula II FVA racing engine. The specification includes twin-overhead camshafts driven by a glass-fibre reinforced, toothed rubber belt. Four valves per cylinder enable the engine to breathe

more efficiently and help it to remain tractable and flexible for town work. And with this sort of power, the performance is phenomenal, 0-60 in 8.3 secs. and a top speed well over 110 mph and yet consumption is still an amazing 25 mpg (*Motor* 9/5/70).

Already this engine has scored many successes powering Escort RS 1600's in racing and rallying and is also widely used in Formula Atlantic.



The Interior

When you're using a high performance car to the full, you need information, and you need it quickly clearly and concisely. So you need instruments whose information can be grasped at a glance.

The instruments in the Escort Mexico and Escort RS 1600 have been ergonomically designed and laid out, taking into account also, the practical lessons learned in international rallying. The matched pair of tachometer, red-lined at 6500, and speedo lie directly in front of the leather rimmed, sports steering wheel, and to the right of these, are four smaller dials giving details of fuel, temperature, oil pressure, and battery condition. Other controls fall conveniently to hand.

The interior is completely trimmed in black, including the head lining. The floor is covered by practical, easily cleaned, rubber matting. All in all the interior can be summed up by the description of functional comfort. But if it isn't to your taste then we offer alternatives overleaf.



Mexico

RS 1600

Mexico



*The finished product.
The Escort Mexico is available both with and without stripes.
When it is not striped,
the wing badge carries the name 'Mexico'.
The Escort RS 1600 has two distinctive blue side badges
and a small RS badge on the rear,
just to let people know what it is, that's
disappearing into the distance.*

Custom Pack

The 'Custom Pack' from Rallye Sport Dealers, for Escort Mexico and Escort RS 1600 turns these exciting sports saloons into extremely desirable, luxury sporting carriages.

The pack starts with a sound-deadening kit which goes even further towards insulating the passengers in a cocoon of quiet. The kit includes sound deadening material for floor, underbonnet and other areas which tend to reflect noise. Coupled with this is a plush, deep-pile black carpet and you start off at ground level with a real luxury feel. Special comfort contoured front bucket seats are fitted: these are designed to give support in the right places and they are trimmed in black brushed Bri-Nylon* fabric, which has been treated with Scotchguard* fabric protector. The rear seat is trimmed to match. Most dirt and stains just wipe off with a damp cloth and normal vacuuming will keep the fabric fresh.

Fabric trim is cool and dry on the hottest summer day and yet warm to the touch on the iciest morning. Both the wear and comfort qualities of this trim were proved over 16,000 miles of gruelling World Cup Rally, which means, when you take into account the range of adjustment on these seats, that you should arrive at the end of the longest journey feeling relaxed and fresh.

A centre console is installed on the transmission tunnel containing a useful oddments tray. The interior is completed by a flexible reading light.

The final item in the pack is an electrically heated rear window, to clear frost, ice and condensation as rapidly as possible and make driving that much safer.

Any Escort Mexico or Escort RS 1600 fitted with the Clubman Pack is identified externally by a very neat triple coachline that follows the body moulding line. The photographs show the whole pack beautifully complimented by the latest RS Alloy Road Wheels. These wheels have all the normal advantages of alloy road wheels i.e. of reducing

unsprung weight, increased strength, and so on, and are good looking into the bargain. They are available separately as an option.

So if you want a little limousine, you need a Rallye Sport Escort fitted with a Custom Pack.

*Bri-Nylon is a registered trademark of ICI.

*Scotchguard is a trademark of Minnesota Mining & Manufacturing Company.





Clubman Pack



The 'Clubman Pack' from Rallye Sport Dealers for Escort Mexico and Escort RS 1600 embodies the basic parts necessary for a successful rally car, factory fitted.

Starting at the front and working backwards, the Pack includes 2 x 7" Halogen driving lamps and 2 x 7" Halogen fog lamps. The driving lamps have a beam width of 56 ft. at well over a quarter of a mile, with a brilliant light output of 121,000 candela. The fog lamps produce a flat top beam with an 80° spread that can penetrate the bleakest conditions. The lamps are mounted on sturdy "up and down" brackets that have proved more than strong enough to survive even the trip to Mexico. The height of the fog lamps is such that they operate effectively under adverse conditions although care should be taken to ensure that their usage complies with Ministry of Transport regulations. The lamps come complete with plastic covers, and metal stone guards and grilles are available as performance parts extras through Rallye Sport Dealers.

Front suspension has uprated springs and front struts with heavy-duty top mountings. The front struts are of the same type as Ford used to win the World Cup Rally; they have a thicker piston rod than normal to help withstand the excessive strains of rallying. In addition they have a gas compartment as well as the usual oil compartment. This gas which is at a very high pressure, is separated from the oil chamber by a moveable piston: thus the oil is in turn under constant pressure which eliminates the formation of oil foam, something which only occurs under low pressure conditions during periods of excessive stress, and leads to poor damping performance. The rear shock absorbers are of the same gas/oil type as the front struts with similar advantages.

Inside the car is fitted a map reading light and a pair of hip-hugging bucket seats which really do hold both driver and passenger in position even under the worst conditions, and to help you relax with a feeling of safety, there is a roll-over hoop securely anchored both to the floor and the side pillars.

There are two further options which are available on this Pack, both of which are strongly recommended especially for when the car is to be used off metalled roads.

The first is a magnesium sump shield: this is the lightest and strongest sump shield available and rigidly protects the underside of the engine compartment, the engine crossmember and the steering rack. Fitting is à la works complete with spacer tubes. With the sump shield an oil cooler is fitted to the Escort Mexico (standard equipment on Escort RS 1600) to keep the oil circulating at the approved temperatures. The other recommended option is a set of "chunky" tyres. These tyres have a very rugged tread pattern and give improved grip on loose and non-tarmac surfaces.

All these parts have been tested in competition by people like Roger Clark, Hannu Mikkola and Gunnar Palm, and as you very, very, rarely beat them, you're better off joining them!



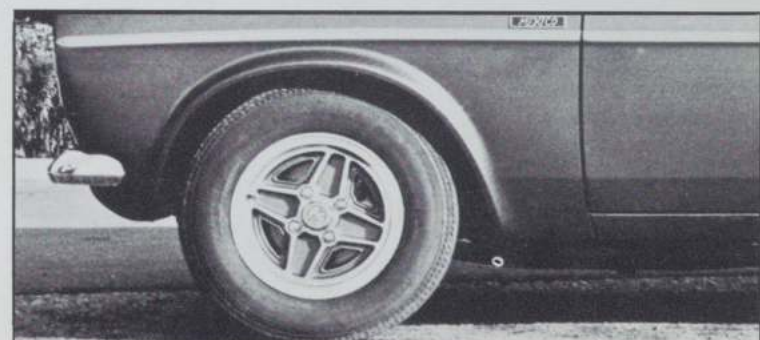
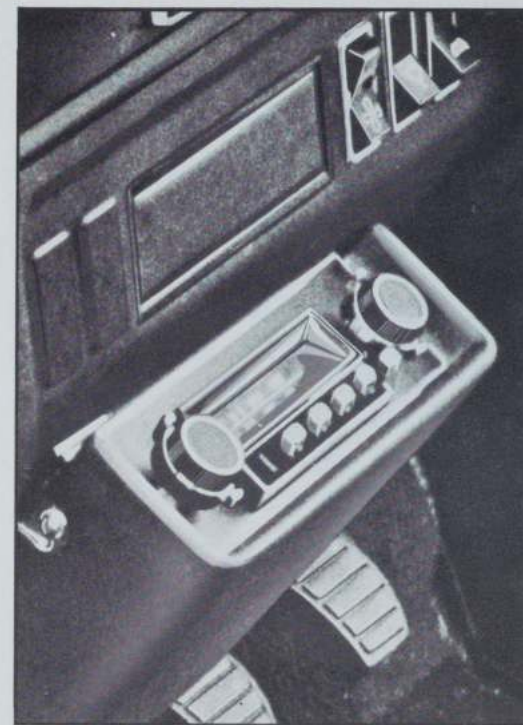
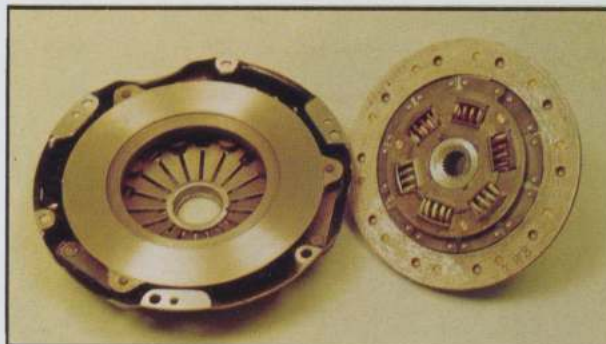
Options and Accessories

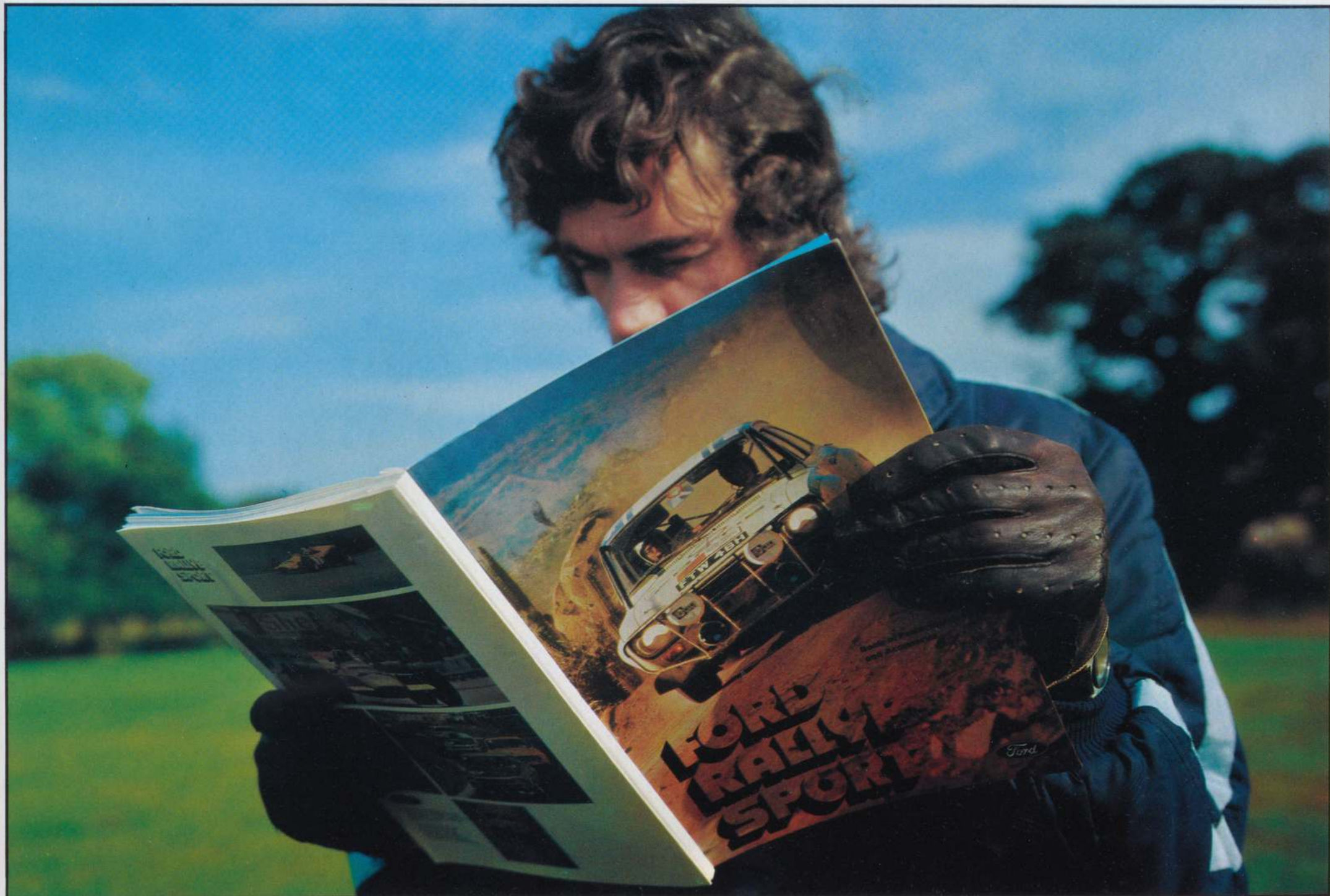
There are a number of further options and accessories available for the Escort Mexico and Escort RS 1600 to help you get the car of your choice. A five push button radio is available as a factory fitted option, as is the Lighting Pack. The Lighting Pack comprises the 2 x 7" Halogen driving lamps and 2 x 7" Halogen fog lamps, along with wiring looms, relays, switches fuses, etc., which are part of the Clubman Pack.

RS Alloy Road wheels are another factory fitted option; these are complete with centre caps, special nuts and wheelbrace and have all the advantages of reduced unsprung weight, increased strength and so on, as well as being good looking into the bargain.

The quartz-iodine headlamp option goes a long way towards turning night into day. These headlights each give a fantastic 110 watts on main beam and are fully engineered with appropriate wiring and relay. In effect these lights operate as a four headlamp system with a bulb for dipped beam and an additional bulb which comes on as well when the main beam is selected.

A few of the Rallye Sport Performance Parts such as exhaust manifolds, magnesium wheels, rally seats, differentials, and clutch parts, which are available only through the Rallye Sport Dealer Network, are also shown on this page. A full catalogue, called the Ford Rallye Sport Book of Performance Parts and Accessories, is also available from them and details all the parts and their applications. As a book it makes interesting reading, as well as being a mine of information, at a very reasonable price.







Specifications of Escort Mexico & Escort RS1600

Engine (Escort Mexico)

4 cylinder in line. Cubic capacity 1601 cc (97.68 cu. ins). Bore 80.98 mm (3.19 in). Stroke 77.72 mm (3.06 in). Compression ratio 9:1. Power 86 PS (DIN) at 5500 rpm. 98 B.H.P. at 6000 rpm. Torque 92 lb/ft at 4000 rpm. Overhead valves. Five main bearing crankshaft. Four branch exhaust manifold.

Engine (Escort RS1600)

4 cylinder in line. Cubic capacity 1601 cc (97.68 cu. ins). Bore 80.98 mm (3.19 in). Stroke 77.72 mm (3.06 in). Compression ratio 10:1. Power 115 PS (DIN) at 6000 rpm. Torque 110 lb/ft at 4,500 rpm.

Overhead valves—4 per cylinder. Twin overhead camshafts driven by toothed rubber belt. Four branch exhaust manifold.

Engine Lubrication (Escort Mexico)

High efficiency mechanical pump. Full flow oil filter. Capacity of system 8 pints (4.6 litres) including filter.

Engine Lubrication (Escort RS1600)

High efficiency mechanical pump. Full flow oil filter. Oil cooler unit. Capacity of system 9.25 pints (5.25 litres) including filter and cooler.

Ignition (Common)

12 volt system, ballast resistor coil.

Fuel System (Escort Mexico)

Mechanical pump. Electrical fuel gauge. Tank capacity 9.0 gallons (40.9 litres).

Fuel System (Escort RS1600)

Mechanical pump. Electrical fuel gauge. Tank capacity 9.0 gallons (40.9 litres). Twin 40 DCOE Weber carburettors.

Cooling System (Escort Mexico)

Pressurised. Capacity of system 12 pints (6.8 litres).

Cooling System (Escort RS1600)

Pressurised. Capacity of system 12.5 pints (7.1 litres).

Transmission (Escort Mexico)

Three rail shift, four-speed synchromesh gearbox, single plate hydraulic 7.5 inch diameter diaphragm clutch. Ratios: 1st 2.972; 2nd 2.010; 3rd 1.397; 4th 1.00; Reverse 3.324. Final drive 3.77:1.

Transmission (Escort RS1600)

Three rail shift, four-speed synchromesh gearbox, single plate hydraulic 8 inch diameter diaphragm clutch. Ratios: 1st 2.972; 2nd 2.010; 3rd 1.397; 4th 1.00; Reverse 3.324. Final drive 3.77:1.

Body (Common)

Steel integral construction, safety glass all round with laminated windscreen. Two doors with anti-burst door locks. Air extraction vents below rear window. Single tone paint finish. Black painted aluminium grille and chrome plated front quarter and rear bumpers. Flared front wheel arches to accommodate extra wide wheels. Spare wheel housed in boot together with battery.

Rear Axle (Common)

Semi-floating, hypoid final drive. Axle ratio 3.77:1.

Front Suspension (Common)

Independent coil springs, Macpherson struts with integral dampers and stabiliser bar.

Rear Suspension (Common)

Live axle with semi-elliptic leaf springs and radius arms. Telescopic hydraulic shock absorbers.

Brakes (Common)

Front—Disc brakes, diameter 9.625 in (24.44 cm), swept area 190.0 sq in (1,226.5 sq cm). Vacuum servo-assistance.

Rear—Drum brakes, diameter 9.00 in (22.86 cm), swept area 96 sq in (619.2 sq cm). Vacuum servo-assistance.

Steering (Common)

Rack and pinion. Three spoke, sports, leather rim steering wheel, diameter 14 in (35.6 cm). Turning circle (Kern) 39.7 ft (12.05 m).

Wheels and Tyres (Common)

Pressed steel ventilated disc, stud fixing 5½ in safety ledge rim wheels, diameter 13 in. 165 x 13, radial ply tubeless tyres.

Electrical Equipment (Common)

35 amp alternator with integral voltage control. Starter motor. Single tone horn. Battery 12 volt, 35 amp, hour at 20 hour rate. 7 fuse system.

Instruments (Common)

Binnacle in front of driver containing speedometer and odometer, tachometer, fuel gauge, temperature gauge, oil pressure gauge and battery condition indicator. Warning lights for ignition, main beam and direction indicators.

Controls (Common)

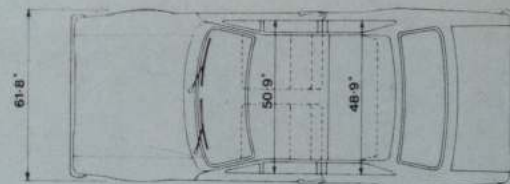
Side/headlight, heater fan and windscreen wiper safety rocker switches, choke and starter/ignition switch with combined steering column lock. Direction indicators, main and dipped beam, headlamp flasher and horn controlled from single control stalk mounted on steering column. Floor mounted foot operated washer/wiper control.

General Equipment (Common)

Two circular, sealed beam 75/50 watt headlamps with combined sidelights. Separate direction indicators below headlamps. Twin tail light assemblies incorporating direction indicator flashers, rear lights, brake warning lights and reflectors. Rear number plate illumination light. Windscreen washers and two speed wipers. High grade PVC upholstery, washable plastic headlining. Padded top to fascia, and front of collapsible parcel shelf. Rubber mats. Individual front bucket seats with anti-tip device. Remote floor mounted gearshift. Door operated courtesy light. Reversing lights. Cowlside map pocket. Two rear grab handles with coat hooks. Luggage compartment light. Safety styled door handles and window ladders. Breakaway stem dipping rear view mirror. Ashtray in fascia. Rear ashtrays in side panels. Two padded safety sun visors. Aluminium scuff plates to door sills. Heater and demister. Face level ventilation system, vents in fascia combined with demister nozzles. Seat belts fitted to driver's and front passenger's seats (at extra cost).

Available from your
Ford Rallye Sport Dealer

Published by Ford Motor Co. Ltd.
Advertisement Vehicle Operations
Ansford Ave., South Ockendon
Essex RM15 5TJ

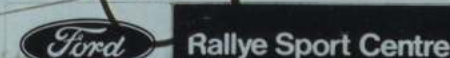


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Any Rallye Sport Performance Parts described in this leaflet are subject to the terms and conditions of the Warranty given for performance parts, details of which are contained in the Rallye Sport Book of Performance Parts and Accessories and may be seen at Rallye Sport Dealers on request.



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Printed by Clifford Thames, Sharnfield, England

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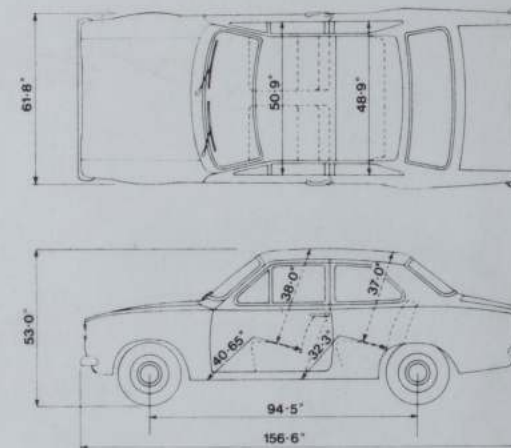
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Rallye Sport Centre

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