



ESCORT

Mechanics Data Guide

GENERAL ENGINE DATA

Types

4 Cylinder in Line 1098 c.c.
 4 Cylinder in Line 1297 c.c.
 4 Cylinder in Line Twin Overhead Cam 1560 c.c.

	1098 c.c.	1297 c.c.	GT	1560 c.c. Twin Cam
Bore & Stroke (ins)	3.1881 x 2.098	3.1881 x 2.480	3.1881 x 2.480	3.2506 x 2.867
Compression Ratio	9.00 : 1	9.00 : 1	9.2 : 1	9.5 : 1
Compression Pressure	165 lb sq. in.	168 lb. sq. in.	168 lb. sq. in.	180-200 lb. sq. in.
Taxable Horsepower	16.3	16.3	16.3	16.9
B.H.P. @ R.P.M.	53 @ 5500	61.5 @ 5000	75 @ 6000	109.5 @ 6000
Torque (lb. ft. @ R.P.M.)	62 @ 3000	75.5 @ 2500	74.5 @ 4300	106.5 @ 4500
Firing Order	1.2.4.3.	1.2.4.3.	1.2.4.3.	1.3.4.2.
Valve Clearance	HOT 0.010" in	COLD 0.010" in	HOT 0.012" in	COLD 0.006" in
	0.017" ex	0.017" ex	0.022" ex	0.010" ex
Oil Pressure (lb. sq. in.)	35-40	35-40	35-40	35-40
Spark Plug — Type	AG 22	AG 22	AG 22	AG 22
	— Gap 0.023"	0.023"	0.023"	0.023"
Contact Breaker — Gap	0.025"	0.025"	0.025"	0.014"-0.016"
Dwell Angle	39°-42°	39°-42°	39°-42°	57°-63°
Initial Ignition Timing	6° B.T.D.C.	10° B.T.D.C.	10° B.T.D.C.	12° B.T.D.C.
Engine Idle Speed	580-620	580-620	680-720	800-1000

BRAKES

Type — **Front** — Disc Type or Twin Leading Shoe Drum Type. **Rear** — Internal Expanding Drum Type, Leading and Trailing Shoe. Footbrake on all four wheels, Handbrake on rear wheels only. Dual Line Brakes are standard except on twin cam.

	Front Brakes	Rear Brakes	Servo
1098 c.c. Sedan	Drum, 8 x 1.5 in.	Drum, 8 x 1.5 in.	NO
1297 c.c. Sedan	Disc, 8.6 x 0.375 in.	Drum, 8 x 1.5 in.	YES
6 cwt. Van	Drum, 8 x 1.75 in.	Drum, 8 x 1.5 in.	YES
GT	Disc, 8.6 x 0.375 in.	Drum, 8 x 1.5 in.	YES
Twin Cam	Disc, 9.625 x 0.50 in.	Drum, 8 x 1.75 in.	YES

DISC BRAKE			DRUM BRAKE		
	Twin Cam	Excepting Twin Cam		Twin Cam	Excepting Twin Cam
Disc Run-Out	0.002"	0.002"	Lining Thickness	0.188 in.	0.188 in.
Pad Lining Area (Total)	20.64 sq. in.	15.64 sq. in.	Lining Area (per Shoe)	14.70 sq. in.	9.43 sq. in.
Pad Identification	Green	Blue-Blue- White-White	Swept Area (Total)	99.0 sq. in.	75.5 sq. in.
Swept Area	189.5 sq. in.	153.8 sq. in.	Cylinder Diameter	0.70 in.	0.75 in.
Cylinder Diameter	2.125 in.	1.892 in.			

MASTER CYLINDER BORE DIAMETER

Drum Brakes 0.75 in.
 Disc-Twin Cam 0.75
 Drum Brakes with Servo 0.813 in.
 Disc Excepting Twin Cam 0.813

CLUTCH

Type — Single Dry Plate, Diaphragm Spring, Strap Drive. Permanently Lubricated Clutch Release Bearing. Cable Operated 1098 and 1297 c.c. Models, Hydraulic on Twin Cam.

	1098 c.c.	1297 c.c.	GT	Twin Cam
Lining Outside Diameter	6.5 in.	7.5 in.	7.5 in.	8.0 in.
Lining Inside Diameter	4.5 in.	5.36 in.	5.36 in.	5.75 in.
Total Friction Area	34.57 sq. in.	42.1 sq. in.	42.1 sq. in.	47.36 sq. in.
Master Cylinder Bore Diameter	—	—	—	0.75 in.
Slave Cylinder Bore Diameter	—	—	—	0.875 in.

MANUAL TRANSMISSIONS

Gear Ratios : 1

1098 AND 1297 c.c. ENGINES

	Gearbox	3.900 : 1 Axle Overall	4.444 : 1 Axle Overall
First	3.656	13.258	16.247
Second	2.185	8.522	9.710
Third	1.425	5.558	6.333
Top	1.000	3.900	4.444
Reverse	4.235	16.517	18.820

		GT 4.125 : 1 Axle Overall		TWIN CAM 3.777 : 1 Axle Overall
	Gearbox		Gearbox	
First	3.337	13.765	First	2.972
Second	1.995	8.229	Second	2.810
Third	1.418	5.849	Third	1.397
Top	1.000	4.125	Top	1.000
Reverse	3.869	15.951	Reverse	3.324

AUTOMATIC TRANSMISSION

Type — 3 Speed Epicyclic with 3 Element Hydro-Kinetic Torque Converter

Gear Ratios : 1

Stall Speed

First	2.393	1098 c.c.	1700/1900 R.P.M.
Second	1.450	1297 c.c.	1900/2000 R.P.M.
Top	1.000		
Reverse	2.094		

Shift Speeds 3.900 Axle (4.125 axle) M.P.H.

Gear Change	1 to 2	2 to 3	3 to 2	2 to 1
Light Throttle	7 to 11 (6 to 11)	9 to 13 (9 to 13)	—	—
Full Throttle	24 to 31 (22 to 30)	38 to 48 (35 to 46)	—	—
Kick Down	30 to 38 (28 to 36)	52 to 60 (49 to 57)	45 to 56 (42 to 53)	21 to 32 (19 to 32)
Zero Throttle	—	—	—	6 to 9 (6 to 8)

DIMENSIONS

Wheelbase — All Models	94.5 in.	Track — Front — 4JJ Wheels	49.25 in.
Overall Length — Sedan	156.6 in.	— 4½JJ and 5JJ Wheels	49.5 in.
— Estate Car	160.3 in.	— Rear — 4JJ Wheels	50.25 in.
— Van	159.6 in.	— 4½JJ and 5JJ Wheels	50.5 in.
Overall Width — All Models	61.8 in.	Turning Circle — Sedan	29.0 ft.
Overall Height — Sedan	54.8 in.	— Van	29.7 ft.
— Estate Car	55.9 in.	Ground Clearance — All Models	4.85 in.
— Van	61.8 in.	Kerb Weight* — 2 Door Standard	1760 lbs.
		— 2 Door Super	1775 lbs.
		— 4 Door Super & Twin Cam	1820 lbs.
		— 6 cwt. Van	1786 lb.

* Add 33 lb. for Vehicles fitted with Automatic Transmission.

LUBRICANT/FUEL/COOLANT CAPACITIES (IMP. PTS), SPECIFICATIONS

		Capacity	SPECIFICATION
Engine Crankcase (inc. Filter)	— 1098 c.c., 1297 c.c. & GT	— 6.4	ESE-M2C-101B
	— Twin Cam	— 6.5	(20W/40, 20W/50 or 30 MS)
Filter Capacity	— 1098 c.c., 1297 c.c. & GT	— 2/3	
	— Twin Cam	— 1/2	
Manual Transmission		— 1 1/2	ESW-M2C-83A (SAE 80 EP)
Automatic Transmission	— (including converter)	— 11 1/4	M2C-33F
Rear Axle		— 2	ESW-M2C-108A (SAE 90 HYPOID)
Cooling System	— (with heater)	— 9	
	— (without heater)	— 8	
Steering — Rack & Pinion		— 1/4	ME 568D (SAE 90 EP)
Brake/Clutch Master Cylinders		—	Autolite R1-39A
Fuel Tank		9 Gallons	

STEERING GEAR

Type — Rack and Pinion

Ratio — Cam Gears — 16.63 : 1 Burman 16.35 : 1

WHEEL ALIGNMENT FIGURES

	Twin Cam	Excepting Twin Cam
Castor	+ 1°48' to + 2°48'	+ 0°40' to 1°40'
Camber	— 0°20' to — 1°20'	+ 0°50' to 1°50'
Toe In	0.08" to 0.15"	0.00" to 0.25"

TYRE SIZES AND PRESSURES

Model	Type	Normal Pressure lbs. sq. in.		High Speed Pressure lbs. sq. in.		Full Load Pressure lbs. sq. in.	
		Front	Rear	Front	Rear	Front	Rear
1098 c.c. Sedan	5.50 x 12 Cross-Ply	24	24	24	30	24	30
1297 c.c. Sedan	155SR x 12 Radial-Ply	26	26	30	30	30	30
GT	155SR x 12 Radial-Ply	26	26	30	30	30	30
6 cwt. Van	6.00 x 12 Cross-Ply	24	24	28	28	28	32
Twin Cam	165SR x 13 Radial-Ply	26	26	28	28	28	28

WHEELS

	SEDAN	GT AND R.P.O. SEDAN	VAN	TWIN CAM
Size	4.0JJ x 12	4.5JJ x 12	4.0JJ x 12	5.0JJ x 13

ELECTRICAL EQUIPMENT

Battery — Type — Lead Acid, Voltage 12, Capacity 40 at 20 hr. rate (R.P.O.-55 at 20 hr. rate)

NEGATIVE EARTH

Alternator (Twin Cam) — Lucas 15 ACR — Output 28 amps

Generator (excepting twin cam) — Lucas G40 — maximum charge 22 amps, maximum output 264 watts
R.P.O. heavy duty G40L — maximum charge 25 amps, maximum output 300 watts

Coil — Oil filled low voltage type for use with 1.5 ohm ballast resistor

FUEL PUMP

Type —	Mechanical
Delivery Pressure	
— 1098 and 1297 c.c.	1 to 2 lbs./sq. in.
— GT	3 1/2 to 5 lbs./sq. in.
— Twin Cam	1 1/4 to 2 1/2 lbs./sq. in.

CARBURETTORS

TWIN CAM		G.T.	
Type—Twin, Dual Barrel two Venturis per barrel, horizontal Weber 40DCOE31		Type — Dual Barrel, two Venturis per barrel, downdraft	
Jet Sizes:		Primary	Secondary
Main Venturi	30	Venturi Diameter	23 24
Auxiliary Venturi	4.5	Auxiliary Venturi	4.5 4.5
Main Jet	.110	Main Jet	125 115
Idling Jet	45/F9	Air Correction Jet	135 160
Accelerator Pump Jet	35	Slow-Running Petrol Jet	50 45
Accelerator Pump Inlet Valve Bleed	40	Slow-Running Air Jet (Bush)	185 100
Accelerator Pump	1.00" with	Progression Holes	1 x 110, 1 x 70 2 x 120
Spring Length	10.75 oz lead	Slow-Running Volume Control Port	85 100
Progression Holes	1 x 120, 2 x 100	Full Load Enrichment Jet	— 85
Starting Jet	100/F5	Full Load Air Bleed	— 100
Air Corrector Jet	155	Full Load Mixture Jet	— 100
Needle Valve	1.75	Accelerator Pump Jet	60
Float Level	8.5mm inc. gasket	Accelerator Pump Back Bleed	50
Float Stroke	6.5mm	Needle Valve	2.0mm
Petrol Level	29mm	Float Level	7.0 to 7.5mm
		Float Stroke	8mm

1098 c.c. AND 1297 c.c.

Type — Ford Single Venturi, Downdraft with Accelerator Pump and Power Valve Starting Device — Semi Automatic Strangler Type Choke or Fully Automatic Choke.

	1098 c.c.	1297 c.c.
Identification Number — Manual Choke — Standard	C7AH—A	C7AH—B
— Auto Choke — Standard	C7AH—C	C7AH—D
— Manual Choke — Emission Reduction	C7AH—E	
— Auto Choke — Emission Reduction	C7AH—G	
Float Setting — Up	1.12 to 1.14 in.	1.12 to 1.14 in.
— Down	1.38 to 1.40 in.	1.38 to 1.40 in.
Choke Plate Pull Down — Manual Choke	0.14 to 0.16 in.	0.14 to 0.16 in.
— Automatic Choke	0.08 to 0.10 in.	0.13 to 0.15 in.
Accelerator Pump Stroke — Manual Choke	0.105 to 0.115 in.	0.145 to 0.155 in.
— Automatic Choke	0.120 to 0.130 in.	0.145 to 0.155 in.
Throttle Barrel Diameter	30 mm	34 mm
Venturi Diameter	21.5 mm	25 mm
Main Jet — Manual Choke	1.12 mm	1.32 mm
— Auto Choke	1.12 mm	1.27 mm
Idling Jet	0.55 mm	0.60 mm
Power Jet	0.70 mm	0.70 mm
Pump Jet	0.45 mm	0.45 mm
Pump Spring — Colour	RED	RED

TIGHTENING TORQUES (lb./ft.)

	Twin Cam	Excepting Twin Cam
Cylinder Head Bolts	60—65	65—70
Main Bearing Caps	55—70	65—70
Connecting Rod Big Ends	44—46	30—35
Camshaft Bearing Cap Nuts	9	—
Camshaft Sprocket Bolts	25—30	—
Wheel Nuts		50—65

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