

CAMS

5TH CATEGORY - HISTORIC RACING

GROUP Nb

APPROVED VEHICLE SPECIFICATION

This form details the approved specifications of individual vehicle models in the 5th Category Historic car group. To be issued with an Historic Log Book, cars need to comply with these specifications, the physical appearance shown in the illustrations and the general historic rules as detailed in the current CAMS Manual of Motor Sport.

Make of Car: Anglia - Anglia Super - Anglia 1200 Model: 105E/123E

Period of Original Manufacture: September 1959 - 1967 (105E)
1962 - 1967 (123E)

CAMS Historic Group: Nb

Date of Issue of this Document: September 1999



SECTION 1 - CHASSIS

1.1 CHASSIS FRAME

Description:	Unitary Construction	Period of Manufacture:
Manufacturer:	Ford	1959 - 1967
Chassis no. from:	105E0001/ 123E0001/	
Chassis no. location:	Bulkhead	
Material:	Steel	
Comments:		

1.2 FRONT SUSPENSION

Description:	McPherson Strut	
Spring medium:	Coil	
Damper Type:	Telescopic	Adjustable: Optional
Anti-sway bar:	Integral with suspension	Adjustable: No
Suspension adjustable:	No	Method:
Comments:	Spring rates, ride height and sway bar diameter may be varied.	

1.3 REAR SUSPENSION

Description:	Live Axle	
Spring medium:	Semi Elliptic	
Damper type:	Lever Arm	Adjustable: No
Anti-sway bar:	No	Adjustable:
Suspension adjustable:	No	Method:
Comments:	Spring rates and ride height may be varied.	

1.4 STEERING

Type:	Recirculating Ball	Make:	Ford
Comments:			

1.5 BRAKES

Type:		Front	Rear
Dimensions:		Drum*	Drum
Material of drum/disc		203 x 45 mm	203 x 38 mm
No. cylinders/pots per wheel:		Cast Iron	Cast Iron
Actuation:		2	1
Caliper: Make, Material, Type:		Hydraulic	N/A
Master cylinder make:	Girling	Girling	
Adjustable bias		No	Type: Single
Servo Fitted		No	
Comments:	* Front discs (231 mm) fitted to 123E "Super" only Dual circuit brakes and/or power assist optional.		

SECTION 2 - ENGINE

2.1 ENGINE

Make:	Ford	Configuration:	In Line
Model:	105E*	FOUR Stroke	
No. cylinders:	4	Max. allowed:	82.46 mm
Cylinder Block-material:	Cast Iron	Max. allowed:	48.41 mm
Bore - Original:	80.96 mm	Max. allowed:	1034 cc
Stroke - original:	48.41 mm		
Capacity - original:	997 cc		
Cooling method:	Water Cooled		
Identifying marks:			
Comments:	Alternative dimensions for "Super" (109E/113E Engine): (original) 81 x 58.39 = 1198cc (permitted) 82.5 x 58.39 = 1249 cc. Later 5-main bearing engines NOT PERMITTED IN GROUP Nb		

2.2 CYLINDER HEAD

Make:	Ford	Inlet:	1	Exhaust:	1
No. of valves/cylinder-		Inlet:	4	Exhaust:	4
No. of ports total:	8	Location:	Block	Drive:	Chain
No. of camshafts:	1				
Valve actuation:		Pushrod			
Spark plugs/cylinder:	1				
Identifying marks:					
COMMENTS:					

2.3 LUBRICATION

Method:	Wet Sump	Oil tank location:	N/A
Dry sump pump type:	N/A	Location:	N/A
Oil cooler standard:	No	Location:	N/A
COMMENTS:			

2.4 IGNITION SYSTEM

Type:	Coil & Distributor
Make:	Lucas/Bosch
COMMENTS:	

2.5 FUEL SYSTEM

Carburettor: Make:	Weber*	Model :	36 DC-01	No: 2	Size: 26/27
Size :	N/A				
Fuel injection Make:	No	Type:			
Supercharged:		Type:			
COMMENTS:	* Single choke Solex original equipment on 105E Carburettor/s may be replaced with other make/types available in period.				

SECTION 3 - TRANSMISSION

3.1 CLUTCH

Make: Ford **Type:** Dry Plate **Diameter:** 184 mm
No. of Plates: 1
Actuation: Hydraulic
Comments:

3.2 TRANSMISSION

Type: Ford
Make: **Model:**
No. forward speeds: 4 **Gearbox location:** Behind Engine
Gearchange type and location: Floor mounted (Direct)
Case material: Cast Iron **Identifying marks:**
Comments:

3.3 FINAL DRIVE

Make: Ford **Model:**
Wheel drive method: Rear
Ratios: Various
Differential: Free **Type:**
Comments: LSD Permitted

3.4 TRANSMISSION SHAFTS (EXPOSED)

Number: 1 **Location:** Gearbox to Final Drive
Description: Tubular tailshaft with universal joints.
Comments:

3.5 WHEELS & TYRES

Wheel type: Original:	Bolt On	Material: Original:	Steel
Allowed:		Allowed:	Period Alloy
Fixture method:	4 Bolt	No. studs:	4
	FRONT		REAR
Wheel dia. & rim width			
Original:	4 x 13 (105E)		4 x 13 (105E)
	5.5 x 13 (123E)		5.5 x 13 (123E)
Allowed:	6.0 x 13 (123E)		6.0 x 13 (123E)
	5.0 x 13 (105E)		5.0 x 13 (105E)
Tyre section:			
Original:	590 x 13		590 x 13
Allowed:	205 x 13 (123E)		205 x 13 (123E)
	185 x 13 (105E)		185 x 13 (105E)
Aspect ratio - minimum:			
Comments:	Alloy wheels permitted.		

SECTION 4 - GENERAL

4.1 FUEL SYSTEM

Tank Location: Rear Capacity: 32 Litres
Fuel pump, type and location: Mechanical Make: AC
Comments: Alternate Fuel Pump/s Permitted.

4.2 ELECTRICAL SYSTEM

Voltage: 12 Generator fitted:
Battery Location: Under Bonnet
Comments:

4.3 BODYWORK

Type: 2 door sedan Material: Steel
No. of seats: 4 No. doors: 2
Comments:

4.4 DIMENSIONS

Track - Front: 1220 mm Rear: 1220 mm
Wheelbase: 2290 mm Overall length: 3890 mm
Dry weight: 735 kg
Comments:

4.5 SAFETY EQUIPMENT

Fire extinguisher Required
Seat belt Required
Rollbar Required
Electrical cut off switch Optional
Safety fuel tank Optional

Copy of perforated paper via RAC by CANS *AM*

Manufacturers Reference No. for Application

1/53/DAG



F.I.A. Recognition No. 1175

ROYAL AUTOMOBILE CLUB

PALL MALL, LONDON, S.W.1.

Federation Internationale de l'Automobile.

Form of Recognition in accordance with
Appendix J to the
International Sporting Code.

Manufacturer FORD MOTOR COMPANY LIMITED
Model 123E/124E Anglia Super Year of Manufacture 1962
Chassis Z26B 174509
Serial No. of Engine 113E 21449
Type of Coachwork Saloon 2 door
Recognition is valid from 29th January 1963 In category Touring
liste 9/19

Photograph to be affixed here \pm view of car from front right.



Robert Johnson
form: R.F.I.A.

General description of car:

Specify here material/s of chassis/body construction

2 door, 4-seater saloon.
Body and chassis of steel.

Photographs to be affixed below.

$\frac{1}{2}$ view of car from rear left.



Interior view of car through driver's door.



Engine unit with accessories from right.



Engine unit with accessories from left.



Front axle complete (without wheels).



Rear axle complete (without wheels).



ENGINE

In line Yes
 No. of cylinders 4 in V _____
 opposed _____

Cycle Four Stroke Firing order 1-2-4-3

Capacity 1198 c.c. Bore 80.97 m.m. Stroke 58.166 m.m.

Maximum rebore 0.762 Resultant capacity 1221 c.c.

Material of cylinder block Cast Iron Material of sleeves, if fitted -

Distance from crankshaft centre line to top face of block at centre line of cylinders 180.9/181.1 m.m.

Material of cylinder head Cast Iron Volume of one combustion chamber 30.0 c.c.

Compression ratio 9.1

Material of piston Aluminium Alloy No. of piston rings Three

Distance from gudgeon pin centre line to highest point of piston crown 38.837/38.867 m.m.

Bearings { Crankshaft main bearings: Type Copper Lead Dia. 53.987/54.0 m.m.
 Connecting rod big end: Type Copper Lead or Lead Dia. 49.2/49.2125 m.m.
Bronze

Weights { Flywheel 6.53 kg.
 Crankshaft 7.71 kg.
 Connecting rod 0.541 kg.
 Piston with rings 0.413 kg.
 Gudgeon pin 0.099 kg.

No. of valves per cylinder Two Method of valve operation Push Rod and Rocker

No. of camshafts One Location of camshafts In Cylinder Block

Type of camshaft drive Chain

Diameter of valves: Inlet 35.69 m.m. Exhaust 31.75 m.m.

Diameter of port at valve seat: Inlet 32.51 m.m. Exhaust 25.4 m.m.

Tappet clearance for checking timing: Inlet 0.305 m.m. Exhaust 0.559 m.m.

Valves open: Inlet 27° BTDC Exhaust 65° BBDC

Valves close: Inlet 65° ABDC Exhaust 27° ATDC

Maximum valve lift: Inlet 8.509 m.m. Exhaust 8.763 m.m.

Degrees of crankshaft rotation from zero to—

Maximum lift: Inlet 129° Exhaust 123°

1/2 Maximum lift: Inlet 72.4° Exhaust 63°

Valve springs: Inlet _____ Exhaust _____
 Type Straight Coil _____ Straight Coil
 No. per valve One _____ One

Carburettor: Type Twin Choke Down Draught No. fixed One
 (up or down draft, horizontal)

Make Weber Model 36 DC DI

Flange hole diameter 28/36 m.m. Choke diameter 26/27 m.m.

Main jet identification No. 140 mm
155 mm 3



Air filter: Type _____ No. fitted _____

Inlet manifold:
Diameter of flange hole at carburettor 47.24 m.m.
Diameter of flange hole at port 26.92 m.m.

Photograph of combustion chamber to be affixed here.



Photograph of inlet manifold to be affixed here.



Exhaust manifold:
Diameter of flange hole at port 25.58 m.m.
Diameter of flange hole at connection to silencer inlet pipe 38.10 m.m.

Photograph of piston showing crown to be affixed here.



Photograph of exhaust manifold to be affixed here.



ENGINE ACCESSORIES

Make of fuel pump A.C. No. fitted One
Method of operation By Eccentric on Camshaft
Type of ignition system Oil Filled Coil coil or magneto
Make of ignition Lucas Model Distributor 25 D4
Method of advance and retard Automatic Centrifugal and Vacuum
Make of ignition coil Lucas or A.C. Delco Model L.A.12
No. of ignition coils One Voltage 12 v.
Make of dynamo Lucas Model G40
Voltage of dynamo 12v Maximum output 25 amps.
Make of starter motor Lucas Model M 35 G
Battery: No. fitted One Voltage 12v Capacity 38 amp. h.
Oil Cooler (if fitted) type _____ Capacity _____ pints



Make FORD Model ANGLIA SUPER P.I.A. Recognition No. 1175
 Manufacturers Reference No. of Application 1/63/DAG

TRANSMISSION

Make of clutch Ford Type Single Dry Plate
 Diameter of clutch plate 184.15 mm No. of plates One
 Method of operating clutch Hydraulically Operated
 Make of gearbox Ford Type Conventional Synchromesh on all Four Gears
 No. of gearbox ratios Four
 Method of operating gearshift Manual Shift
 Location of gearshift Central Floor Lever
 Is overdrive fitted? No
 Method of controlling overdrive, if fitted _____

	GEARBOX RATIOS		ALTERNATIVE RATIOS					
	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth
1.	3.543	32x22 17 17	3.543	32x 24 17 17				
2.	2.596	32x28 17 22	2.34	32x27 17 24				
3.	1.412	32x21 17 28	1.412	32x21 17 28				
4.	1.000	Direct	1.000	Direct				
5.								

Type of final drive Hypoid
 Type of differential Bevel and Pinion or 2^{1/2} Limited Slip
 Final drive ratio 4.125 Alternatives 4.111, 4.429, 4.7
 No. of teeth 33/8 37/9
 Overdrive ratio, if fitted _____

WHEELS

Type STEEL DISCS Weight 11.70 kg.
 Method of attachment 4 R.H. Studs
 Rim diameter 330.2 m.m. Rim width 92.075 J m.m.
 Tyre size: Front 5.20 x 13 Rear 4.20 - 13

BRAKES

Method of operation Hydraulic
 Is servo assistance fitted? No
 Type of servo, if fitted -
 No. of hydraulic master cylinders One Bore 15.875 m.m.



	Front	Rear
No. of wheel cylinders	<u>Two per Wheel</u>	<u>One</u>
Bore of wheel cylinders	<u>40.60</u> m.m.	<u>19.05</u> m.m.
Inside diameter of brake drums	_____ m.m.	<u>203.2</u> m.m.
No. of shoes per brake	_____	<u>Two</u>
Outside diameter of brake discs	<u>231.65</u> m.m.	_____ m.m.
No. of pads per brake	<u>Two</u>	_____

Dimensions of brake linings per shoe or pad (if all shoes or pads in each brake are not of same dimensions, specify each)

	Front	Rear
Length	<u>60.20</u> m.m.	<u>159.0</u> m.m.
Width	<u>34.04</u> m.m.	<u>38.1</u> m.m.
Total area per brake	<u>4000.24</u> m.m. ²	<u>12.161</u> m.m. ²

SUSPENSION

	Front	Rear
Type	<u>Independent</u>	<u>Longitudinal</u>
Type of spring	<u>Coil Springs</u>	<u>Semi-elliptic Leaf</u>
Is stabiliser fitted?	<u>Yes</u>	<u>No</u>
Type of shock absorber	<u>Telescopic</u>	<u>Lever</u>
No. of shock absorbers	<u>Two</u>	<u>Two</u>

STEERING

Type of steering gear Recirculating Ball
 Turning circle of car 9.75 m., approx.
 No. of turns of steering wheel from lock to lock 2 $\frac{1}{2}$

CAPACITIES AND DIMENSIONS

Fuel tank 31.82 litres Sump 3.196 litres
 Radiator 5.95 litres
 Overall length of car 389.9 cm. Overall width of car 145.6 cm.
 Overall height of car, unladen (with hood up, if appropriate) 143.8 cm.
 Distance from floor to top of windscreen: 99.06 (Approx)
 Highest point _____ cm. Lowest point _____ cm.

Width of windscreen:

Maximum width 105.41 cm. Minimum width 93.98 cm.

*Interior width of car 114.3 cm.

No. of seats Four

Track: Front 176.8 cm. Rear 116.3 cm.

Wheelbase 229.87 cm. Ground clearance 152.5 m.m.

(To be measured at the immediate rear of the steering wheel, and the width quoted to be maintained in a vertical plane of not less than 25 cms.)

Overall weight with water, oil and spare wheel, but without fuel 734.8 kgs.



Additional information for cars fitted with two-cycle engines

System of cylinder scavenging _____

Type of lubrication _____

Size of inlet port:

Length measured around cylinder wall _____ m.m.

Height _____ m.m. Area _____ m.m.²

Size of exhaust port:

Length measured around cylinder wall _____ m.m.

Height _____ m.m. Area _____ m.m.²

Size of transfer port:

Length measured around cylinder wall _____ m.m.

Height _____ m.m. Area _____ m.m.²

Size of piston port:

Length measured around piston _____ m.m.

Height _____ m.m. Area _____ m.m.²

Method of pre-compression _____

Bore and stroke of pre-compression cylinder, if fitted _____ m.m.

Distance from top of cylinder block to lowest point of inlet port _____ m.m.

Distance from top of cylinder block to highest point of exhaust port _____ m.m.

Distance from top of cylinder block to highest point of transfer port _____ m.m.

Drawing of cylinder ports.

Supercharger, if fitted

Make _____

Model or Type No. _____

Type of drive _____

Ratio of drive _____

Fuel injection, if fitted

Make of pump _____

Model or Type No. _____

Make of injectors _____

Model or Type No. _____

Location of injectors _____



Optional equipment affecting preceding information:—

Engine Sump Shield
Four Blade Fan
Fuel Tank Shield
Laminated Glass Windscreen
Heavy Duty Suspension
Additional Fuel Tank 31.82 Litres
Cylinder Head Part No.113E 6085A
Low Compression Cylinder Head Part No.113E 6085B
Inlet Manifold Part No.105E 9525B
Exhaust Manifold Part No.105E 9430C
Solex Carburettor Part No.123E 9510
Air Filter Part No.123E 9600B
Camshaft Part No.109E 6250
Front Brakes 8" x 1.75"

TOWING
EQUIPMENT.



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MOTOR SPORT DIVISION
The Royal Automobile Club,
31 Belgrave Square, London, S.W.1

Manufacturer FORD
Model ANGLIA SUPER
F.I.A. Recognition No. 1175
Amendment No. 1

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

No.

1/63/DAG

Reference No.

123E/124E ANGLIA SUPER

Production Change: Alternative Gear Box Ratios

Ratio	No. of Teeth
2.5	28/21 x 32/17
1.64	28/21 x 27/22
1.23	28/21 x 24/26
1.00	Direct

Production Change: Wheel Size - Alternative Type Steel Disc-

	5 $\frac{1}{2}$ J	4 $\frac{1}{2}$ J
Weight with Tyre	12.8 kg	12.6 kg
Method of Attachment	Studs and Nuts	
Rim Diameter	330.2 mm	330.2 mm
Rim Width	139.7 mm	114.3 mm
Tyre Size (Front)	6.00 x 13	5.90 x 13
Tyre Size (Rear)	6.00 x 13	5.90 x 13

Date amendment is valid from 11th. APRIL 1964 List 10/4

FEDERATION INTERNATIONALE DE L'AUTOMOBILE
Commissariat Supp de F.I.A./R.A.C.

MOTOR SPORT DIVISION

Manufacturers Reference No. for Application

1/63/DAG/A



F.I.A. Recognition No.

1175/2/ET

ROYAL AUTOMOBILE CLUB

PALL MALL, LONDON, S.W.1.

Federation Internationale de l'Automobile.

Amendment to Form of Recognition

Manufacturer FORD MOTOR COMPANY LIMITED

Model ANGLIA 1200 SUPER

Alternative supplier steel main bearing caps
Introduced in production from engine no. J.21616
from 12th December, 1964.

Stamp of F.I.A./R.A.C. to be
affixed here.

Date amendment is valid from

10th January 1965

Form: R.F.I.B.

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The Royal Automobile Club,
31 Belgrave Square, London, S.W.1

Manufacturer FORD
Model ANGLIA SUPER
F.I.A. Recognition No. 1175
Amendment No. 2

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

No.
1/63/DAG/A

Reference No.
ANGLIA 1200 SUPER

Alternative supplier steel main bearing caps.
Introduced in production from engine No. J.21616
from 12th. December 1964

Date amendment is valid from 1st. January 1965 List 12/1





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Manufacturer FORD
Model ANGLIA SUPER
F.I.A. Recognition No. 1175
Amendment No. 3

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

No.
1/63/DAG/C

Reference No.
ANGLIA SUPER

Additional Information

When fitted with 4½J or 5½J Wheels the Track Width
is 48 inches.

Date amendment is valid from 1st August 1965 List 13/1





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31 Belgrave Square, London, S.W.1

Manufacturer FORD
Model ANGLIA SUPER 1200
F.I.A. Recognition No. 1175
Amendment No. 4

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

No.	Reference No.	<u>ERRATA</u>
	<u>ANGLIA 1200 SUPER</u>	<u>GROUP II</u>

Alternative Engine block and crankshaft fitted as optional to the Anglia 1200 Super from October, 1st.1966. All internal measurements as previous except:

1. 149. No. of crankshaft main bearings 5 Part No.2730E-6010A
2. Crankshaft Weight: 10.15 kg 22.3 lbs. Part No.2730E-6303A
3. Amendment to Homologated Weight from:-
Chassis No. B22FG 73096
Weight: 717 Kgs. 1582 lbs.

Date amendment is valid from 1st. January 1966 List 15/2



Manufacturers Reference No. for Application

1/12/2010



F.I.A. Recognition No.

2175

A/U

ROYAL AUTOMOBILE CLUB

PALL MALL, LONDON, S.W.1.

Federation Internationale de l'Automobile.

Amendment to Form of Recognition

Manufacturer FORD MOTOR COMPANY LIMITED

Model FORD MUSTANG

Additional Information

When fitted with 4 $\frac{1}{2}$ J or 5 $\frac{1}{2}$ J wheels the track width is 46 inches.

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Stamp of F.I.A./R.A.C. to be affixed here.

Date amendment is valid from

1/18/65 to 1/1/71

Form: R.F.I.3.