VM 64/4



F.I.A. Recognition No. 1371

## ROYAL AUTOMOBILE CLUB

PALL MALL, LONDON, S.W.I.

## Federation Internationale de l'Automobile.

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

Manufacturer VAUXHALL MOTORS LTD. FCS/D/E - 101 SERIES - 165 1964 Year of Manufacture. Chassis FCS/D/E 5001001 Serial No. of Engine 30 FC/2001 FOUR DOOR SALOON Type of Coachwork ...... 1st telemany 1965 In category TOURING Recognition is valid from....

Photograph to be affixed here 3 view of car from front right.



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

Form: R.F.I.A.

## General description of car:

Specify here material/s of chassis/body construction

SHEET STEEL - INTEGRAL CHASSIS/BODY CONSTRUCTION.

Photographs to be affixed below.

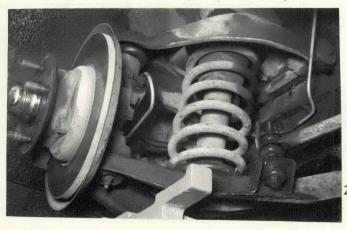
 $\frac{3}{4}$  view of car from rear left.



Engine unit with accessories from right.



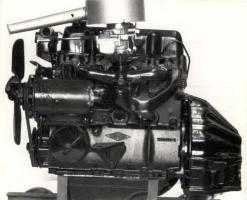
Front axle complete (without wheels).



Interior view of car through driver's door.



Engine unit with accessories from left.

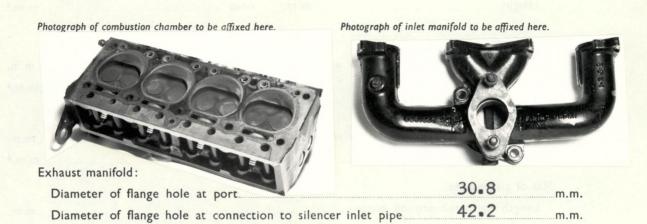


Rear axle complete (without wheels).



ake VAUXHALL	Model FCS		I.A. Recognition	No.	154	
IGINE	in line	YES	Cata	logued B.	н.р. 6	0.3 (N
No. of cylinders 4		-		к.р.м. 4	600	***************************************
Cycle 4-STROKE	000000	d -		3-4-2		
Capacity 1595 c.c.	Bore	81.64	m.m. Sti	oke	76.2	2 m.m.
Maximum rebore	A 1 [3.2]	Result	ant capacity	315 %	1636	c.c.
Material of cylinder block CHR	COMIUM C	AST Materi	al of sleeves, if	fitted	-	
Distance from crankshaft centr face of block at centre line						m.m.
Material of cylinder head CAS	T IRON	Volume of o	ne combustion	chamber	46.5	7 <sub>c.c.</sub>
Compression ratio 9.0	1					
Material of piston ALUMIN	HUM ALL	OY	No. of pisto	n rings	3	A STATE OF
Distance from gudgeon pin cen	tre line to hi	ghest point of	f piston crown	Line	44.4	6 m.m.
Crankshaft main b	earings: Typ	e WHITE	METAL	Dia.	53.9	m.m.
Bearings { Crankshaft main b	ig end: Type	ALUMINI	UM TIN	Dia.	47.6	m.m.
Flywheel	10.09	kσ		/		
Crankshaft			in the court	300 7		8 7544
Weights { Connecting rod		0				
- Commodeling roum	-43			-1 - 1		
Piston with rings	. 10	kσ.				
Piston with rings	.145	kg.	ALL TO	Las		7001
Gudgeon pin	• 145	kg.	d of valve one	ration P	usн R	OD
Gudgeon pin	• 145 vo	kg. Metho				
No. of valves per cylinder	•145 vo	kg. Metho	on of camshaft			
No. of valves per cylinder	•145 vo NE CHAI	Metho Location	on of camshaft	s CYLI	NDER	
Oudgeon pin  No. of valves per cylinder.  No. of camshafts.  On  Type of camshaft drive	.145 vo NE CHAI 36.6	Metho Location N AT FRO	on of camshaft ONT Exhaust	S CYLI	NDER 31.7	
Gudgeon pin  No. of valves per cylinder.  No. of camshafts.  ON  Type of camshaft drive  Apperox Talves AT Injet A  Diameter of port  at valve-seat: Inlet	.145 WO NE CHAI 36.6 30.7	Metho Location N AT FRO m.m.	on of camshaft  ONT  Exhaust  Exhaust	S CYLI	31.7 26.1	m.m.
On Gudgeon pin  No. of valves per cylinder.  No. of camshafts.  On Type of camshaft drive  Appered Three AT In et al.  Diameter of port  at valve seat: Inlet.  Tappet clearance for checking timing: Inlet.	.145 VO NE CHAI 36.6 30.7 0.33	Metho Location N AT FRO m.m. m.m.	on of camshaft  ONT  Exhaust  Exhaust  Exhaust	S CYLI	31.7 26.1 0.33	m.m. m.m.
No. of valves per cylinder.  No. of camshafts.  Type of camshaft drive  Approximated of valves.  Approximated of port at valve seat:  Tappet clearance for checking timing:  Inlet.  Valves open:  Inlet.	.145 VO CHAI 36.6 30.7 0.33 29.60 B	Metho Location N AT FRO m.m.  m.m.	Exhaust  Exhaust  Exhaust  Exhaust	71.6	31.7 26.1 0.33 0 B.B	m.m. m.m.
Gudgeon pin  No. of valves per cylinder. Two  No. of camshafts. On  Type of camshaft drive  Tappet of Talves A Tinjet A  Diameter of port  at valve seat: Inlet.  Tappet clearance for checking timing: Inlet.  Valves open: Inlet.  Valves close: Inlet.	.145 VO NE CHAI 36.6 30.7 0.33 29.60 B 76.10 A	kg. Metho Location N AT FRO m.m.  m.m.  B-T-D-C-	Exhaust  Exhaust  Exhaust  Exhaust  Exhaust  Exhaust  Exhaust	71.6 34.1	31.7 26.1 0.33 0 B.B	m.m. m.m.
Gudgeon pin  No. of valves per cylinder.  No. of camshafts.  On  Type of camshaft drive  Lappet of Talves: A Tinet at valve seat: Inlet  Tappet clearance for checking timing: Inlet  Valves open: Inlet  Valves close: Inlet  Maximum valve lift: Inlet	.145 WO NE CHAI 36.6 30.7 0.33 29.60 B 76.10 A 8.5	Metho Location NTAT FRO m.m.  m.m.  B.T.D.C.  m.m.	Exhaust  Exhaust  Exhaust  Exhaust	71.6 34.1	31.7 26.1 0.33 0 B.B	m.m. m.m.
Gudgeon pin  No. of valves per cylinder	.145 VO NE CHAI 36.6 30.7 0.33 29.60 B 76.10 A 8.5	Metho Location NTAT FRO m.m.  m.m.  B.T.D.C.  m.m.	Exhaust  Exhaust  Exhaust  Exhaust  Exhaust  Exhaust  Exhaust  Exhaust	71.6 34.1	31.7 26.1 0.33 0 B.B 0 A.T 8.5	m.m. m.m. D.C.
Gudgeon pin  No. of valves per cylinder	.145 vo NE CHAI 36.6 30.7 0.33 29.60 B 76.10 A 8.5 n from zero 138.60	Metho Location N AT FRO m.m.  m.m.  B.T.D.C.  M.B.D.C.	Exhaust  Exhaust  Exhaust  Exhaust  Exhaust  Exhaust  Exhaust  Exhaust  Exhaust	71.6 34.1	NDER 31.7 26.1 0.33 0 B.B 0 A.T 8.5	m.m. m.m. a.D.C. a.D.C. a.m.m.
No. of valves per cylinder. Two No. of camshafts. On Type of camshaft drive.  Type of camshaft drive.  Type of camshaft drive.  Tappet control of port at valve seat: Inlet.  Tappet clearance for checking timing: Inlet.  Valves open: Inlet.  Valves close: Inlet.  Maximum valve lift: Inlet.  Degrees of crankshaft rotation. Maximum lift: Inlet.  3 Maximum lift: Inlet.	.145 WO NE CHAI 36.6 30.7 0.33 29.60 B 76.10 A 8.5 n from zero 138.60 840	Metho Location N AT FRO m.m.  m.m.  B.T.D.C.  m.m.  m.m.  m.m.  m.m.  m.m.  m.m.  m.m.	Exhaust  Exhaust  Exhaust  Exhaust  Exhaust  Exhaust  Exhaust  Exhaust	71.6 34.1	NDER 31.7 26.1 0.33 0 B.B 0 A.T 8.5	m.m. m.m. a.D.C. a.D.C. a.m.m.
No. of valves per cylinder. Two No. of camshafts. On Type of camshaft drive.  Type of camshaft drive.  Type of camshaft drive.  Tappet Clearance for checking timing: Inlet	.145  VO  NE  CHAI  36.6  30.7  0.33  29.60 B  76.10 A  8.5  n from zero 138.60 840  Inlet	kg.  Metho  Location  N AT FROM  m.m.  m.m.  B T D C C C C C C C C C C C C C C C C C C	Exhaust	71.6 34.1 138	31.7 26.1 0.33 0.8.8 0.A.T 8.5	m.m. m.m. D. C. m.m.
Gudgeon pin  No. of valves per cylinder. Two No. of camshafts On Type of camshaft drive  Type of camshaft drive  Tappet of Tayles: A Tinet A Diameter of port at valve seat: Inlet.  Tappet clearance for checking timing: Inlet.  Valves open: Inlet.  Valves close: Inlet.  Maximum valve lift: Inlet.  Degrees of crankshaft rotation Maximum lift: Inlet.  3 Maximum lift: Inlet.  Valve springs:  Type HEL	.145  NE CHAI 36.6 30.7 0.33 29.60 B 76.10 A 8.5 n from zero 138.60 840 Inlet	Metho Location NTAT FROM m.m.  M.M.  B.T.D.C.  m.m.  m.m.  m.m.  m.m.  m.m.  m.m.  m.m.  m.m.  m.m.  d.B.D.C.	Exhaust	71.6 34.1 138	31.7 26.1 0.33 0 B.B 0 A.T 8.5 .60 840	m.m.  m.m.  D.C.  D.C.  m.m.
Gudgeon pin  No. of valves per cylinder. Two  No. of camshafts. On  Type of camshaft drive  Tappet of Taylor Type of camshaft drive  Tappet cylinder. Inlet.  Tappet clearance for checking timing: Inlet.  Valves open: Inlet.  Valves close: Inlet.  Maximum valve lift: Inlet.  Degrees of crankshaft rotation  Maximum lift: Inlet.  Type. Hell  No. per valve.	.145  WO  NE CHAI 36.6 30.7 0.33 29.60 B 76.10 A 8.5 n from zero 138.60 840 Inlet ICAL CO	Metho Location N AT FRO  m.m.  m.m.  B.T.D.C.  m.m.  m.m.  to—	Exhaust	71.6 34.1 138	NDER 31.7 26.1 0.33 0 B.B 0 A.T 8.5 .60 840	m.m. m.m. D.C. D.C.
Gudgeon pin  No. of valves per cylinder. Two No. of camshafts. On Type of camshaft drive  Type of camshaft drive  Tappet of Taylor A Tinet A T	.145  WO  NE CHAI 36.6 30.7 0.33 29.60 B 76.10 A 8.5 n from zero 138.60 840 Inlet ICAL CO	Metho Location N AT FRO m.m.	Exhaust  No. fitted	71.6 34.1 138 Exh CAL CO ONE	NDER 31.7 26.1 0.33 0.8.8 0.A.T 8.5 .60 840	m.m. m.m. D. C. m.m.
Gudgeon pin  No. of valves per cylinder. Two  No. of camshafts. On  Type of camshaft drive  Tappet of Taylor Type of camshaft drive  Tappet clearance for checking timing: Inlet.  Valves open: Inlet.  Valves close: Inlet.  Maximum valve lift: Inlet.  Degrees of crankshaft rotation  Maximum lift: Inlet.  3 Maximum lift: Inlet.  Valve springs:  Type HEL  No. per valve.  Carburettor: Type Dov  (up or dov	.145  WO  NE CHAI 36.6 30.7 0.33 29.60 B 76.10 A 8.5 n from zero 138.60 840 Inlet ICAL CO ONE WNDRAFT wn draft, hor	Metho Location N AT FRO  m.m.  m.m.  B.T.D.C.  m.m.  m.m.  M.S.T.D.C.  M.S.D.C.  M.M.  M.M	Exhaust  No. fitted	71.6 34.1 138 Exh CAL CO ONE	NDER 31.7 26.1 0.33 0.8.8 0.A.T 8.5 .60 840	m.m. m.m. a.D.C. a.D.C. m.m.

Make	VAUXH	ALL.	Model FC	CS/D/E	F.I.A. Recognition	No	1571
Air	filter: Type	DRY	ELEMENT	(FOAM)	No. fitted	ONE	
	et manifold: Diameter of fl	ange hol	e at carburet	tor	34.3	. Tylani	m.m.
	Diameter of fl				33.1		m.m.





Photograph of exhaust manifold to be affixed here.

## **ENGINE ACCESSORIES**

SINE ACCESSORIES	
Make of fuel pump AC DELCO	No. fitted ONE
Method of operation MECHANICAL DRIVE F	ROM CAMSHAFT
Type of ignition system. COIL	coil or magneto
Make of ignition AC DELCO	Model 7952990
Method of advance and retard CENTRIFUGAL	. & VACUUM
Make of ignition coil AC DELCO	O F
No. of ignition coils ONE	10
Make of dynamo LUCAS	0.01
Voltage of dynamo 12V	
Make of starter motor LUCAS	
Battery: No. fitted ONE Voltage 12	
Oil Cooler (if fitted) type	Capacity pints

ike VAU	IXHALL	M	odel FUS	א /ע /כ	F.I.A. Reco	gnition No	13+	1
			Manufact	urers Refere	nce No. of	Application	AM. O	4/4
RANSMISS		5 0	D			0	16	
Make of	clutch	BORG &	BECK	202 2 4	Ту	pe 8	Ab	•
Diamete	r of clutch pl	late8	INCH (	203.2 M	M) No	of plates.	ONE	•
Method	of operating	clutch	M	ECHANIC	AL	Cana		•
Make of	gearbox	VAUXH	ALL		Ту	SYNCH	ROMESH	D
No. of g	earbox ratio	s 3 Fo	RWARD (	ONE KEV	ERSE/4	FORWAR	ED UNE	KEVERS
Method	of operating	g gearshift		VIANUAL	/ _			
Location	of gearshift	t	STEERI	NG COLU	MN / F	LOOR		
	rive fitted?							
Method	of controllin	g overdrive	, if fitted		-			
	GEARBO	X RATIOS		***************************************	ALTERNAT	IVE RATIOS		
	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth
1.	3.285		3.186	17 13				
2.	2.13	22 28	1.635	17 19				
3.	1.355	22 22		-				
4.	DIRECT	DIRECT	DIREC	TDIREC	Т			
REVERS	SE3.050	22 33	3.050	22 33				
Type of t	final drive		Нотс	HKISS				
					•			
Final dri	differential ve ratio	4.125		Alternative	3.9		4.62	25
No. of	f teeth	8/33		7 (100) (100)	10/	'39	8/37	7
	ve ratio, if fi							
HEELS								
	D	ISC		Weig	ht 5	.3		kg
Method	of attachme	nt		STUD				
Rim dia	meter	330.2	m.	m. Rim	width 1	27		m.m
Tyre size	meter	5.60 x	13	Rear	5.	60 x 1	3	
AKES								
	of operation.		HY	DRAULIC	,			
le convo	assistance fit	ted? C	ODE 36	8	•••••••••••••••••••••••••••••••••••••••	•••••••••••••••••••••••••••••••••••••••	•••••••••••••••••••••••••••••••••••••••	
12 261 40 5	assistance nt	C	ODF 36	8 VACUU	M			
Type of	servo if fitt	ed	ODL JU	O MAGGG				

Make VAUXHALL Mod	el FCS/D/E F.I.A. Recogn	nition No. 1371
	Front	Rear
No. of wheel cylinders	2 PER WHEEL	1 PER WHEEL
Bore of wheel cylinders	48.26 m.m.	14•22 m.m.
Inside diameter of brake drums	m.m.	228.6 m.m.
No. of shoes per brake	-	Two
Outside diameter of brake discs	230.12 m.m.	m.m.
No. of pads per brake	Two	-
Dimensions of brake linings per dimensions, specify each)	shoe or pad (if all shoes or pad	ds in each brake are not of same
difficultions, specify each)	Front	Rear
Length	m.m.	PRIMARY 187.5 m.m. SECONDARY 236.2 m.m.
Width	m.m.	44.5 m.m.
	5032•3 mm²	18840
Total area per brake		
SUSPENSION	Front WICHE	Rear SONE BEAM AXLE
Туре	INDEPENDANT WISHB	SEMI-ELLIPTIC LEAF
Type of spring	COIL	
Is stabiliser fitted?	YES	No Telescopio
Type of shock absorber	DOUBLE ACTING	TELESCOPIC
No. of shock absorbers	Two	Two
STEERING	Pro I POULATINO PA	martinian realization
Type of steering gear	10 1	LL.
Turning circle of car		m., approx.  -5 (ALTERNATIVE SUPPLY OF
No. of turns of steering wheel	from lock to lock	GEARS
CAPACITIES AND DIMENSION	S	
Fuel tank 46	litres Sump	4•27 litres
	litres	
Overall length of car 443	8 cm. Overall width	of car 164.3 cm.
Overall height of car, unladen (w	rith hood up, if appropriate)	140•2 cm.
Distance from floor to top of wir		
Highest point. 105	cm. Lowest point	102.5 cm.
Width of windscreen:		
Maximum width 136		h 113 cm.
*Interior width of car 13	7.5 cm.	
No. of seats FOUR		
Track: Front 129.5	cm. Rear	133.6 cm.
Wheelbase 254	cm. Ground clearance	150
*(To be measured at the immediate rea	ar of the steering wheel, and the	
in a vertical plane of not less to Overall weight with water, oil and		960

Make	VAUXHALL Model	FCS/D/E	F.I.A. Recognition No	1371
	itional information for cars fitte			
	System of cylinder scavenging			
	Type of Iubrication			
	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.m.
	Height	m.m.	Area	m.m.m.²
	Method of pre-compression			
	Bore and stroke of pre-compression	cylinder, if fitt	ed	m.m.
	Distance from top of cylinder block	o lowest point	t of inlet port	m.m.
	Distance from top of cylinder block	to highest poi	nt of exhaust port	m.m.
	Distance from top of cylinder block	to highest poi	nt of transfer port	m.m.m
	Drav	wing of cylinde	er ports.	
			DOUBLE OA - 48	
	TRANSMAC MORT	SATAR TO		
		- 1		
			60138 08	
Sune	rcharger, if fitted	AS URL LATE:		calle le bente?
Jupe	Make	Ma	del or Type No	
	Type of drive		atio of drive	
		No.		
Fuel	injection, if fitted			
	Make of pump		Model or Type No	
	Make of injectors		Model or Type No	
	Location of injectors	***************************************		

6396736/7 FRONT DRUM BRAKES. GIRLING 2 LEADING SHOE 9 INCH.

PAPER ELEMENT AIR CLEANER (EXTRA DUTY). CODE 41. 7964672

FRONT CROSSMEMBER GUARD. CODE 153. 6369157

LOW COMPRESSION RATIO CYLINDER HEAD. CODE 164 6380982

6364429 FRONT SPRINGS - INCREASED GROUND: CLEARANCE - CODE 301. 6350325)

REAR SPRING ASSEMBLY - INCREASED GROUND CLEARANCE. CODE 301 7161886

7153521/2 Special Front & Rear Shockabsorbers for Overseas Territories. CODE 316.

6364407/8 FRONT SPRINGS - HEAVY DUTY SUSPENSION. CODE 357.

FRONT STABILIZER SHAFT - HEAVY DUTY SUSPENSION. CODE 357 6357379

REAR SPRING - HEAVY DUTY SUSPENSION. CODE 357. 7161807

REAR AXLE SPIN RESISTANT DIFFERENTIAL 8/33 RATIO CODE 386. 7167349

REAR AXLE SPIN RESISTANT DIFFERENTIAL 10/39 RATIO CODE 386. 7167350

REAR AXLE SPIN RESISTANT DIRFERENTIAL 8/37 RATIO. CODE 386. 7166351 POWERGLIDE AUTOMATIC TRANSMISSION. CODE 389.