VM 64/3



F.I.A. Recognition No. 1370

ROYAL AUTOMOBILE CLUB

PALL MALL, LONDON, S.W.I.

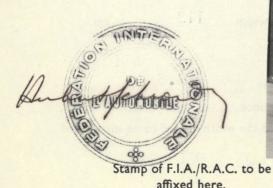
Federation Internationale de l'Automobile.

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

VAUXHALL MOTORS LTD. FCH - VX 4/90 - 65 1964 Year of Manufacture Chassis FCH. 5001001 Serial No. of Engine 31 FC/2001 FOUR DOOR SALOON Type of Coachwork

1st February 1965 In category Recognition is valid from.....

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





Form: R.F.I.A.

General description of car:

Specify here material/s of chassis/body construction

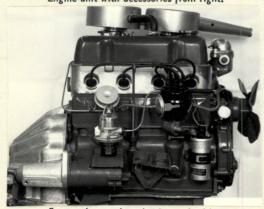
SHEET STEEL - INTEGRAL CONSTRUCTION

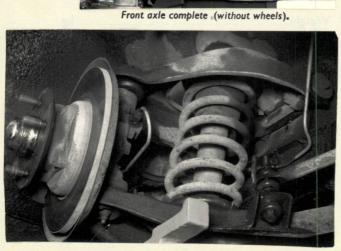
Photographs to be affixed below.

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



Engine unit with accessories from right.











Make VAUXHALL Model FCH	F.I.A. Recognition No. 1370
ENGINE in line YES	Catalogued B.H.P. 73.8 NET
No. of cylinders. 4 in V	at R.P.M. J200
opposed	
Cycle 4-STROKE Firing	order 1-3-4-2
Capacity 1595 c.c. Bore 81.64	m.m. Stroke 76.2 m.m.
Maximum rebore • 040" Resu	Iltant capacity 1636 c.c.
Material of cylinder block CHROMIUM CAST Mate	
Distance from crankshaft centre line to top face of block at centre line of cylinders Material of cylinder head ALUMINIUM Volume of	one combustion chamber 41.46
Material of cylinder head COMINION Volume of	one combustion chamber
Compression ratio 9.3	N-I of class stars 3
Material of piston ALUMINIUM ALLOY	
Distance from gudgeon pin centre line to highest point	
Bearings { Crankshaft main bearings: Type ALUMI Connecting rod big end: Type ALUMI	NIUM IIN Dia 33.5 m.m.
Flywheel ASSY 10.09 kg	RUAL EN LINE
Crankshaft 15.5 kg	
Weights Connecting rod 616 kg	
Piston with rings 429 kg	
Gudgeon pin • 145 kg	
No. of valves per cylinder 2 Met	
No. of camshafts ONE Loca	ation of camshafts CYLINDER BLOCK
Type of complete drive CHAIN AT FRON	T
Diameter of valves: Inlet 36.5 m.	m. Exhaust 31.7 m.m.
APPROX THROAT DIA	20 E
at valve seat:	m. Exhaust 28.5 m.m.
Tappet clearance for checking timing: Inlet 0.33 m.	
Valves open: Inlet 29.60 B.T.D.C.	Exhaust 71.60 B.B.D.C.
Valves open: Inlet 29.60 B.T.D.C. Valves close: Inlet 76.10 A.B.D.C.	Exhaust 71.60 B.B.D.C. Exhaust 34.10 A.T.D.C.
76 10	Exhaust 71.60 B.B.D.C. Exhaust 34.10 A.T.D.C.
Valves close: Inlet 76 • 10 A • B • D • C • Maximum valve lift: Inlet 8 • 5 m. Degrees of crankshaft rotation from zero to—	Exhaust 71.60 B.B.D.C. Exhaust 34.10 A.T.D.C. m. Exhaust 8.5 m.m.
Valves close: Inlet. 76 • 10 A • B • D • C • Maximum valve lift: Inlet. 8 • 5 m. Degrees of crankshaft rotation from zero to— Maximum lift: Inlet. 138 • 60	Exhaust 71.60 B.B.D.C. Exhaust 34.10 A.T.D.C. Exhaust 8.5 m.m. Exhaust 138.60
Valves close: Inlet 76.10 A.B.D.C. Maximum valve lift: Inlet 8.5 m.I Degrees of crankshaft rotation from zero to— Maximum lift: Inlet 138.60 3 Maximum lift: Inlet 840	Exhaust 71.60 B.B.D.C. Exhaust 34.10 A.T.D.C. Exhaust 8.5 m.m. Exhaust 138.60 Exhaust 840
Valves close: Inlet. 76 • 10 A • B • D • C • Maximum valve lift: Inlet. 8 • 5 m. Inlet. 138 • 60 Maximum lift: Inlet. 138 • 60 A Maximum lift: Inlet. 840 Valve springs: Inlet.	Exhaust 71.60 B.B.D.C. Exhaust 34.10 A.T.D.C. Exhaust 8.5 m.m. Exhaust 138.60 Exhaust 840 Exhaust Exhaust
Valves close: Inlet 76 • 10 A • B • D • C • Maximum valve lift: Inlet 8 • 5 m. Degrees of crankshaft rotation from zero to— Maximum lift: Inlet 138 • 60 3 Maximum lift: Inlet 840 Valve springs: Inlet Type HELICAL COIL	Exhaust 71.60 B.B.D.C. Exhaust 34.10 A.T.D.C. Exhaust 8.5 m.m. Exhaust 138.60 Exhaust 840 Exhaust HELICAL COIL
Valves close: Inlet. 76 • 10 A • B • D • C • Maximum valve lift: Inlet. 8 • 5 m. Inlet. 138 • 60 Maximum lift: Inlet. 138 • 60 Maximum lift: Inlet. 840 Valve springs: Inlet. Inlet. Inlet. Inlet. Inlet. OIL No. per valve. ONE	Exhaust 71.60 B.B.D.C. Exhaust 34.10 A.T.D.C. Exhaust 8.5 m.m. Exhaust 138.60 Exhaust 840 Exhaust Helical Coil
Valves close: Inlet. 76 • 10 A • B • D • C • Maximum valve lift: Inlet 8 • 5 m. I Degrees of crankshaft rotation from zero to— Maximum lift: Inlet 138 • 60 3 Maximum lift: Inlet 840 Valve springs: Inlet Type HELICAL COIL No. per valve ONE Carburettor: Type DOWNDRAFT	Exhaust 71.60 B.B.D.C. Exhaust 34.10 A.T.D.C. Exhaust 8.5 m.m. Exhaust 138.60 Exhaust 840 Exhaust HELICAL COIL
Valves close: Inlet. 76 • 10 A • B • D • C • Maximum valve lift: Inlet. 8 • 5 m. Inlet. 138 • 60 Aaximum lift: Inlet. 138 • 60 Aaximum lift: Inlet. 840 Valve springs: Inlet. Inlet. 840 Valve springs: Inlet. Inlet. 840 Carburettor: Type DOWNDRAFT (up or down draft, horizontal) Make ZENITH	Exhaust 71.60 B.B.D.C. Exhaust 34.10 A.T.D.C. Exhaust 8.5 m.m. Exhaust 138.60 Exhaust 840 Exhaust HELICAL COIL ONE No. fitted TWO
Valves close: Inlet. 76 • 10 A • B • D • C • Maximum valve lift: Inlet. 8 • 5 m. Inlet. 138 • 60 Aaximum lift: Inlet. 138 • 60 Aaximum lift: Inlet. 840 Valve springs: Inlet. Inlet. 840 Valve springs: Inlet. Inlet. 840 Carburettor: Type DOWNDRAFT (up or down draft, horizontal) Make ZENITH	Exhaust 71.60 B.B.D.C. Exhaust 34.10 A.T.D.C. m. Exhaust 8.5 m.m. Exhaust 138.60 Exhaust 840 Exhaust HELICAL COIL ONE No. fitted TWO Model 34 IV Choke diameter 24 m.m.

Make VAUXHALL Model FCH	F.I.A. Recognition No	1370	0
Air filter: Type DRY ELEMENT	No. fitted	Two	
Inlet manifold: Diameter of flange hole at carburettor	· Janiga ayon da	39	m.m.
Diameter of flange hole at port		37	m.m.

Photograph of combustion chamber to be affixed here.



Photograph of inlet manifold to be affixed here.



Exhaust manifold:

 34 m.m. 42 m.m.

Photograph of piston showing crown to be affixed here.



Photograph of exhaust manifold to be affixed here.



ENGINE ACCESSORIES

AC DELCO ONE No. fitted. Make of fuel pump... MECHANICAL DRIVE FROM CAMSHAFT Method of operation... COIL Type of ignition system... ...coil or magneto AC DELCO FC 31 Model Make of ignition.... CENTRIFUGAL & VACUUM Method of advance and retard.... AC DELCO OIL FILLED Make of ignition coil. Model ONE 12 No. of ignition coils. Voltage LUCAS Model C 40-1 Make of dynamo 12V Voltage of dynamo... Maximum output..... Make of starter motor.... LUCAS Model Battery: No. fitted ONE 12 Capacity... Voltage. amp. hour Oil Cooler (if fitted) type... Capacity.. pints

01.5	No. of the		10/ /	100 101	ar age age		170	6
Make VAUXH	ALL	Мо	del VX 4	/90- '6	P.I.A. Reco	gnition No	10/6	1/2
			Manufacture	ers Reference	e No. of	Application	VIVI 'O4	4/3
TRANSMISSIC		7 0 1	D				2 16	
Make of clu	tch	BORG & I	BECK	2)	Тур	e	SINO	_
Diameter of	f clutch pla	ate 8 IN	CH (203	• 2 MM)	No.	of plates	SING	LE
Method of o	perating	clutch	ME	CHANIC	AL	4 C	C.	
Make of ge	arbox	VAUXHAL			Тур	e 4 SPE	ED SYN	CHROME
No. of gear	box ratios	4	FORWARD	ONE	REVER	RSE		
Method of	operating	gearshift	MANUAL FLOOR					
				FLOOR				
		No						
Method of o	controlling	g overdrive,	if fitted	NA	•			
					SOUTH PROPERTY OF	100000000000000000000000000000000000000		
	GEARBO)	X RATIOS		A	LTERNATI	VE RATIOS		
	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth
		22 33						
1. 3	3.285	17 13						
2. 2	2.13	22 28						
		17 17						
3. 1	.355	17 21						
4.	IRECT	DIRECT			an sold	Consultation (Consultation	1205-2001	
		22 33						
REVERSE	3.050	17 14						
Type of fina	l drive	C	Нотенкі	SS		6		
Type of diff	erential	SPI	N KESIS	TANT H	YPOID	BEVEL	0.5	
Final drive	ratio	4.125	A	lternatives	3.9	4.6		
No. of te	eth	8/33			10/3	39 8/3	/	
Overdrive	ratio, if fi	tted	N/A	\				
VHEELS								
Туре	Disc	Mar nels		Weigh	t	5.3	9/62	kg
Method of	attachmer	nt	STUD)				
Rim diame	ter 3	30.2	m.m	. Rim w	idth	127		m.m
Tyre size: F	ront 5	.60 x 1	3	Rear		5.60 x	13	
RAKES								
	neration		HYDRAU	ILIC				
le cenvo acci	stance fier	ed? Y	ES			••••••••••••	•••••••••••••••••••••••••••••••••••••••	•••••••
Type of sor	vo if fitte	ed: D	IRECT A	CTING	VACUUN	VI		
Type of ser	oulie mass	er cylinders	1	Bore		19.05		

Make VAUXHALL Mod	eVX 4/90-165 F.I.A. Recogn	nition No. 13'40
	Front	Redr
No. of wheel cylinders	TWO PER WHEEL	ONE 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	shoe or pad (if all shoes or pa	ds in each brake are not of same
dimensions, specify each)	Front	Rear
Longth	_	PRIMARY 187.5 m.m.
Length	m.m.	SECONDARY 236.2 m.m.
Width		44.5 m.m.
	5032•3 m.m. ²	18840 m.m.²
Total area per brake SUSPENSION	Front	Rear
	INDEPENDANT WISHBO	
Туре	COIL	SEMI-ELLIPTIC LEAF
Type of spring	YES	No No
Is stabiliser fitted?	DOUBLE ACTING	TELESCOPIC
Type of shock absorber	Two	Two
No. of shock absorbers	IWO	- TWO
STEERING	of telemany 19	Mary blue a nathagonetra
Type of steering gear		
		m., approx.
No. of turns of steering wheel	from lock to lock 4 OR 4	-5 (ALTERNATIVE SOURCES OF SUPPLY
CAPACITIES AND DIMENSION	IS	
	litres Sump	4.27 litres
	litres	
Overall length of car 443.8		
Overall height of car, unladen (v	vith hood up, if appropriate)	140•2 cm.
Distance from floor to top of wi		100 5
Highest point. 105	cm, Lowest point	102.5 cm.
Width of windscreen:		
	cm. Minimum widt	thtm.
*Interior width of car 137.	cm.	N = 14 KM
No. of seats FOUR		
Track: Front 129.		
Wheelbase 254	cm. Ground clearance	e 150 m.m.
*(To be measured at the immediate re	ar of the steering wheel, and the	e width quoted to be maintained
in a vertical plane of not less	· Call	980 kgs
Overall weight with water, oil an	d spare wheel, but without fuel	900 kgs.

Make	VAUXHALL	Model VX 4/90-	65.I.A. Recognition No	1370
Add	itional information fo	r cars fitted with two-	cycle engines	ovi nam na
	System of cylinder scar	venging		Basic see Lies
	Type of lubrication			
	Size of inlet port:			
		und cylinder wall		m.m.
		m.m.		
	and tracks and Military of			
	Size of exhaust port:			
	Length measured arou	und cylinder wall		m.m.
	Height	m.m.	Area	m.m.²
	Size of transfer port:			
	Length measured arou	und cylinder wall		m.m.m.
	Height	m.m.	Area	m.m.²
	Size of piston port:			
		und piston		the someth
		m.m.		
		sion		
		compression cylinder, if fit		
	CAME CONTROL OF CONTRO	inder block to lowest poin		
		linder block to highest po		
		linder block to highest po		
	Distance from cop or sy.			
		Drawing of cylind	er ports.	
			COSTON DA	
	THE	AO MORFE BYLAU :		
			2100	
	12.01			
		TRIFUGAL 1- VADI		e upo i coment
Supe	ercharger, if fitted			
	Make	M	odel or Type No.	
	Type of drive		Ratio of drive	
			VSF	
-uel	injection, if fitted		Apple Luchs	
	Location of injectors		•••••••••••••••••••••••••••••••••••••••	

Make.

6369157 FRONT CROSSMEMBER GUARD - CODE 153

7151926 FINAL DRIVE HYPOID GEAR (HELIXFORM) 4.125 RATE CODE 27

7167349 FINAL DRIVE SPIN RESISTANT DIFFERENTIAL (HELIXFORM)
4.125 RATIO. 276.

7153521/2 FRONT/REAR SPECIAL SHOCKABSORBERS - CODE 316.

7153413 FINAL DRIVE HYPOID GEAR (HELIXFORM) 3.9 RATIO. CODE 350

7167350 FINAL DRIVE SPIN RESISTANT DIFFERENTIAL (HELIXFORM)
3.9 RATIO. CODE 386.

7158469 STEERING DAMPER KIT.

6350325) FRONT SPRINGS (SWEDISH REQUIREMENTS) CODE 307.

7161884 REAR SPRING ASSEMBLY (SWEDISH REQUIREMENTS) CODE 307

6364429) FRONT SPRINGS (INCREASED GROUND CLEARANCE) CODE 301.