JAGUAR XK150

Manufacturers: Jaguar Cars, Ltd., Coventry

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OGICAL successor to the XK140 car, the latest sports model in the range, the XK150 was introduced during the course of 1958. Racing experience and specific developments in construction and design have led to the adoption of many new components. Among them, disc brakes, of Dunlop pattern and design, which are fitted to all four wheels. To amplify drivers' pedal pressure, a brake servo motor of Lockheed pattern is included in the braking circuit.

As with other models of the range, there are a number of options regarding the engine which is available in various stages of tuned performance conditions suitable to requirements. Also optional is a Laycock-de Normanville overdrive for the gearbox. This unit has been fully described in Service Supplement No. 226/C1 and the disc brakes are the subject of Service Supplement No. 310/C44. Similarly optional is Borg Warner automatic transmission.

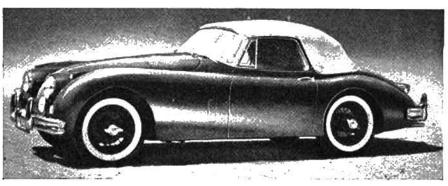
Engine power is transmitted to the rear road wheels in entirely orthodox fashion, via a single dry plate clutch, synchro-mesh gearbox, single stage propeller shaft and the hypoid bevel drive of a semi-floating Salisbury 4HA rear axle. Power output varies with initial specification and stage of tune and since there are no fewer than ten options from which to choose, detailed reference to this subject has been omitted from the text of this article although engine specifications for all of these variants are quoted in tabular form on p. v.

Identification of vehicles is by chassis and engine numbers. Chassis numbers are to be found stamped on the nearside chassis frame above the rear engine mounting bracket.

Engine numbers are stamped on the offside of the cylinder block above the oil filter, and at the front of the cylinder head casting; /7, /8, /9, suffix indicat-ing the compression ratio of the model in question. Cylinder heads are coloured in accordance with the table on p. v. Gearbox numbers are stamped on a boss at the nearside rear of the unit casting and letter "S" at the end of the prefix shows that an overdrive unit is fitted. The body number is stamped on a plate attached to the nearside of the dash panel beneath the bonnet.

All these numbers and letters are to be found collectively on a plate fixed to the nearside of the dash panel. It is essential that all these numbers and letters relevant to the chassis, engine and to any particular component should be quoted when ordering spare parts.

No special tools are needed for repair work to the cars except for a template for timing the camshaft. This is supplied in the car tool kit. Threads and hexagons are in the main SAE, but a certain number will be found to be BSF.



DISTINGUISHING FEATURES. Traditional Jaguar sports car lines are maintained, with more streamlining of wings and doors. Our illustration shows an export 1.h.d. model. Disc brake plates may be seen through spokes of wire wheels.

ENGINE

Mounting

Rubber blocks with moulded-in nuts are bonded to plates which in turn are bolted to chassis frame brackets. Setscrews through brackets are bolted to either side of crankcase at front and to flywheel housing at rear. Tighten all bolts and nuts fully.

Removal

Engine and gearbox should be removed together. Procedure for engine/gearbox removal also applies when an overdrive unit is fitted to the gearbox.

To remove engine, detach bonnet from hinges and take out radiator matrix complete after removal of mounting brackets either side. Take off fan cowling and dynamo together with all pipes, wires, controls and cables fitted to engine. Remove exhaust downpipes at flanges and disconnect propeller shaft.

Take out interior carpets and remove

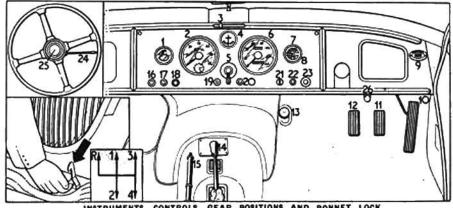
gearbox cowl and floorboards, and take off gearbox top cover complete with gear lever. Blanking plate should be fitted to top of gearbox to prevent damage. Jack up and support rear of engine and remove mounting brackets and rubbers.

Detach clutch hydraulic slave cylinder from bracket and remove crankshaft damper.

Disconnect speedo cable from gearbox or overdrive unit if fitted. Sling engine with one end of sling under a depression at front of sump and other end at rear of sump. When engine is lifted it will tilt upwards at front and may be manœuvred forwards and upwards clear of car.

Crankshaft

Seven main bearings. Thin wall, steelbacked, white metal-lined shells located by tabs. End float controlled by half thrust washers located in either side of centre bearing cap. No hand fitting permissible. Bearing shells Nos. 1, 4 and 7 are intechangeable, as are Nos. 2, 3, 5 and 6. It is possible to change all mair



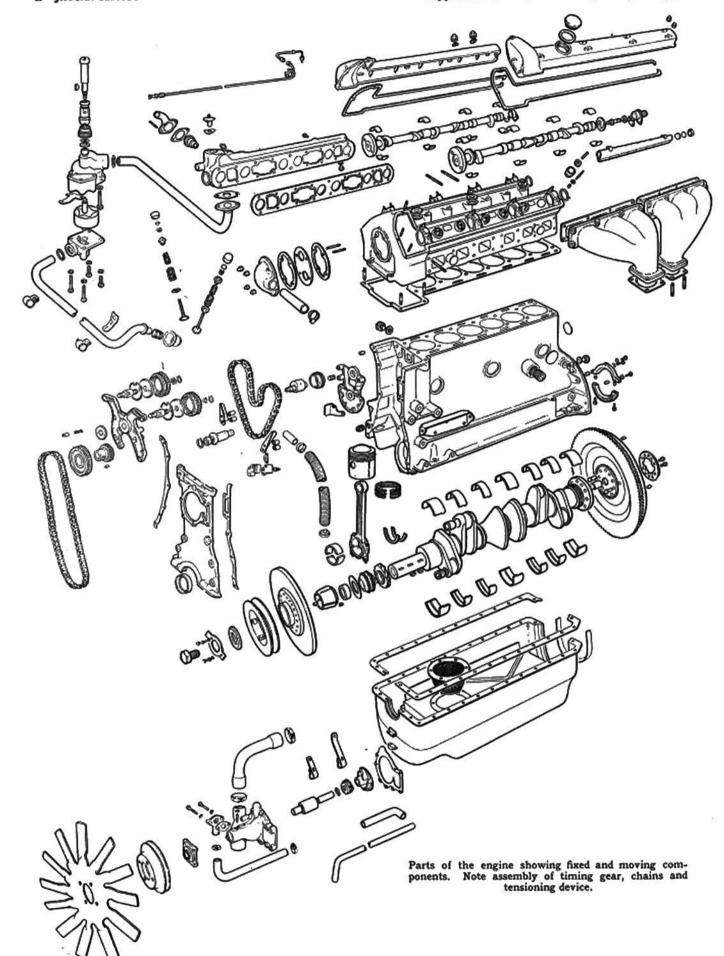
INSTRUMENTS, CONTROLS, GEAR POSITIONS AND BONNET LOCK

- Engine r.p.m. indicator Heater control Ammeter
- Lighting switch
 Speedometer
 Oil pressure gauge
- Water temp. gauge Overdrive switch

- 10. Accelerator
 11. Brake pedal
 12. Clutch pedal
 13. Headlamp dip switch
 14. Gearlever

- 15. Handbrake 16. Screenwiger switch 17. Panel light switch 18. Heater fan switch
- 19. Screen washer button 20. Interior light switch
- 21. Ignition switch
- 22. Starter switch
- 23. Cigar lighter 24. Direction flasher switch 25. Horn push 26. Bonnet release
- Inset upper left shows siting of steering column controls and below, extreme left, method of rele sing bonnet safety catch from outside car; and, inner left, operative positions of gear lever.

SERVICE DATA SHEET	I IND	EX ENTRY-JANU	ARY	COMPONENT SUPPLEMENT		
		27/1/60	334 (53	Smiths Automatic Transmission (Part 2)		
Jaguar XK150	335	27)1 60	334 (33	Auditus Matamatic Lienaminanan (Lents)		



	GENERA	L DAT	A			
Wheelbase	***	744		aft 6	in	
Track: front		006		4tt 3		
rear	***	111	***	4ft 3gin		
Turning circle	4+1	441	243	33ft 0	ín	
Ground clearance		13.9	***	7in		
Tyre size: front)		***	***	6.00-	-16in	
Overall length	2000	100		14tt 9	in	
Overall width	***	***		5tt 4		
Overall height	(III) - 2650	541	100	4ft 7		
Weight (dry) 1/h		***	4.4.4	26 cw		
d/h	coupé	***	29	26} c	wt	
NUT TIG	HTENIN	G TOR	QUE I	ATA		
				Ib	/ft	
Flywheel bolts	272		222	-	7	
Con-rod nuts	***	***	3			
Main bearing nu		371			3	
Cylinder head nu				5	4	
Camshaft bearin		53.5	993	1	5	
BALL AN	ROLL	ER BE	ARIN	DAT	A	
	Part	Int. di	a. E	t. dia.		
	No.	Width	(in o	r mm)	Туре	
ENGINE				_	_	
Water pump GEARSOX	C8167	_		i		
Water pump GEARBOX Constant mesh	555557	40	× 90 m	m	В	
Water pump GEARBOX Constant mesh pinion Mainshaft FRONT AXLE	C8167 C1838 C1845		× 90 m × 3		B B	
Water pump GEARSOX Constant mesh pinion Mainshaft	C1838	1,37		17×		

bearing shells without removal of crankshaft, but this should be done only in direst emergency. Thrust half-washers can be changed by removal of centré-cap.

Flywheel, with integral starter ring gear, spigoted on rear flange of crankshaft, retained by ten setscrews and located by two dowels. Flywheel can be refitted 180 deg. from original setting, but should be fitted with T.D.C. mark set correctly to preserve balance of assembly. Oil impregnated bronze spigot bearing bush pressed into end of crankshaft.

Oil pump and distributor drive gear (longer boss to rear), timing sprocket (either way), oil thrower, distance-piece and split tapered collet carrying fan pulley hub are keyed on front end of crankshaft with three Woodruff keys, and retained by setscrew and large washer which bears on pulley hub, to which bonded rubber torsional vibration damper is riveted. Hub is keyed on tapered collet with Woodruff key. Pulley spigoted and bolted to hub.

Circular oil seal bears on distance-piece behind pulley. Split oil collector housing fits round oil return thread on rear end of crankshaft. Lower half, on which cork strip sealing rear of sump fits, bolted to upper half by two Allen head setscrews, with hollow dowels. Upper half dowelled and bolted to crankcase.

Connecting Rods

"H"-section stampings, horizontally split big-end bearings, thin-wall steelbacked, lead bronze-lined shells located

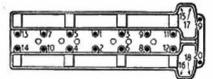


Diagram showing order of tightening cylinder head stud nuts. See also table of Nut Tightening Torque Data this page. by tabs in caps; no hand fitting permissible. This type lead bronze bearing used on latest models.

Small ends bronze bushed for fully floating gudgeon pins.

Pistons

Brico semi-split skirt aluminium alloy. Gudgeon pins located by spring rings. Top compression ring is chromium plated. Pistons should be fitted with cylinder bore number stamped on crown to rear, with split to non-thrust (near) side. Note: that Jaguar practice is to number cylinders from rear to front. Where reference is made in this article to cylinder numbers, our usual practice of numbering from front to rear is maintained.

Connecting rods will pass through bores, but bolts may have to be extracted Remove and assemble through top.

Camshafts

Duplex endless roller chain drive in two stages. First stage drives double idler sprocket and has Renold hydraulic tensioner on offside, rubber rubbing blocks fitted. Second stage passes round idler sprocket, both camshaft sprockets and below small tensioner sprocket on eccentric hub.

Complete assembly of timing chain sprockets and brackets can be removed after removal of cylinder head, sump and timing cover.

Each camshaft runs in four split steelbacked white metal-lined shells, located by dowels. Oil fed through drillings in head to rear bearings, and through hollow shafts to other bearings. End float of camshaft controlled by front bearing between sprocket and flange on shaft.

When removing head for top overhaul, first slacken chain tensioner, then detach each sprocket and slide it inwards along slot, securing it with elastic band on boss.

Before refitting cylinder head, it is important to observe procedure as follows to avoid fouling of inlet and exhaust valves or valves with pistons, in addition to noting that the engine should not be rotated with camshaft sprockets removed.

Position camshafts, using valve timing gauge provided in tool kit. Key of gauge locates in keyways of camshaft and bottom face of gauge with camshaft cover face on cylinder head. Turn crankshaft to T.D.C. No. 1 firing (flywheel mark visible through aperture in left-hand side of bell-housing). Check rotor arm position in distributor, refit cylinder head and connect timing chains.

Valves and Tappets

Overhead, set at 70 deg, included angle. Not interchangeable, inlet larger than exhaust. Split cone cotter fixing, double springs with seats between springs and head.

Valve guides plain, no shoulder, noninterchangeable. Press in until outer end of guide projects fin from spring seat, after total immersion of cylinder head in boiling water for 30 mins.

Valve seat inserts for inlet and exhaust shrunk into light alloy head.

Plain cylindrical tappets fit over valves and slide in guides shrunk into head. Adjust clearance between cam and valve by pad on top of valve stem. Pads are available in thicknesses ranging from .085in to .110in in .001in steps. Pads are

		ENGINE	DAT	A	
General: Type No. of cyli Bore × st Capacity: R.A.C. rat Max. b.h.p Max. torqu Compression	nders roke: n ir c.c cu in ed h.p at r.p	.m		3.2 344 210 25. 210	× 106 677 × 4.1732 12
CI	RANKS	HAFT A	ID C	ON. F	tops
	1	Main Bea	rings		Crankpins
Diameter		2.75	in		2.086in
	No. 1	2, 3, 5, 6	4	7	
Lgth (in)	1++	1.77	12	12	1 in
End float: Undersized Con. rod co No. of tec- pinion	main b 	big end earings big end	is is	gs	.0015003ir .0010025ir .004006in .006008in .020, .030, .040in 7.750in
	PISTO	NS AND	RIN	GS	
Glearance Oversizes	(skirt)	***		.0011 .010,	0017in .020, .030in
Weight wi (7:1 CF Gudgeon	t) pin:d		m)	doub	joz 8749in le thumb push 68°F.
		Compre	ssion		Oil Control
No. of ring Gap Side clea	s	2 .015~.020	in	1	l 011–.016in

†8:1 CR-11b 3oz. 9:1 C.R.--11b 4oz.

	CAM	SHAF	Г	
Bearing journal: dia	mete	r		.001in
	441	3 * *	.000500	
End float	See table			
Cam lift Timing chain: pitch	411	-	lin	p. v/
No. o	d tin	ber in	4.00	
	per		100	
	wer	323	82	
- 00 - 10 - 10 - 10 - 10 - 10 - 10 - 10	VA	LVES		
			Inlet	Exhaust
Head diameter		1	1žin	12in
		***		Ain
	***	227	45 in	45"
			Inner	Outer
Spring length: free			1.656in	1.935in
fitted		***	1,510	1-in
rate	112		69.3 lb/in	77.4 lb/i

* Alternative bore sizes, see table p.v.

identified by etched letters A to Z, A being thinnest. Camshafts must be re-

moved for tappet adjustment.

For removal of valve seat inserts or tappet guides, light alloy head must be heated in oven or muffle for one hour from cold at a temperature of 300 deg F, when new parts should press in easily.

Lubrication

Hobourn-Eaton eccentric rotor pump fitted, with pressure relief valve situated in filter head. Skew drive gear retained on shaft (Woodruff key) by nut. Shaft runs in bronze bush pressed into housing on front of crankcase. Upper end of shaft has offset slot for distributor drive.

When refitting skew gear, shaft and bush assembly, turn crankshaft to T.D.C. 1/6, and push in assembly so that, when skew gear meshes with crankshaft gear, slot is parallel to crankshaft centreline, with larger segment towards engine.

Ignition

Anti-clockwise distributor, with centrifugal and vacuum control, spigoted in crankcase on offside front, and retained by clamp plate.

When removing distributor, slacken clamp, leaving clamp plate on crankcase. Set timing by means of scale and

pointer on crankshaft damper. On road test, micrometer adjustment should not be made in excess of six "clicks" either advance or retard.

Cooling System

Pump and fan. Non-adjustable wax type thermostat in front end of inlet manifold water jacket.

Adjust fan belt by swinging dynamo until there is about ½in movement either way on vertical run of belt.

TRANSMISSION

Clutch

Borg & Beck single dry plate, graphite thrust release bearing, hydraulic actuation through slave cylinder operated by foot pedal. Only external adjustment is by nut on rear end of pedal pull rod to give lin free movement at pedal pad.

Access to clutch for service after removal of gearbox and bell-housing.

Gearbox

Four speed, synchromesh 2nd, 3rd and top gears. Single helical gear forms.

Overdrive available as optional equipment on this model has been fully described in Service Supplement sheet No. 226/C1. Automatic transmission is also fitted to this car and full constructional details are to be found in Service Supplement Nos. 260/C19 and 272/C25.

To remove gearbox take up carpet, seats, floorboards, gearbox cowl and propeller shaft tunnel. Disconnect front end of propeller shaft, reversing light switch wire, speedo drive, detach clutch slave cylinder from bracket. Jack up engine under rear of sump, detach bell-housing bottom cover and take out bell-housing setscrews. Gearbox can then be drawn back and lifted out. Note: If overdrive is fitted, engine and gearbox must be removed as complete unit to achieve access

to gearbox.

To dismantle gearbox, remove top cover with remote control assembly, selector rods and forks. Engage top and 1st gears to lock box, and undo driving flange nut. Draw off flange, extract speedo drive pinion and detach rear cover with lipped oil seal complete with layshaft and reverse spindles. Draw off speedo drive gear and thick washer.

Using suitable extractor withdraw rear ball bearing from mainshaft. Remove bell-housing and front bearing cover with lipped oil seal (note copper washers under setscrew heads). Turn primary shaft so that cut-away on top gear dogs clears layshaft constant mesh gear. Tap mainshaft forward to drive out primary shaft and ball bearing, with caged roller spigot bearing. Mainshaft assembly can then be lifted out through top. Lift out layshaft cluster with needle roller bearings and thrust washers, and bushed reverse idler.

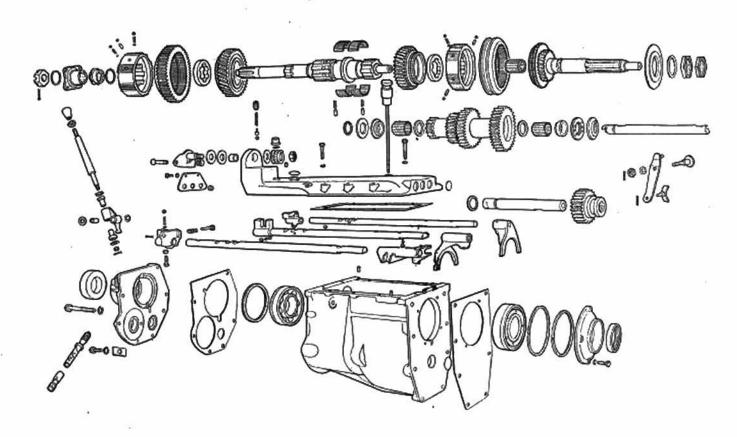
Primary shaft ball bearing retained on shaft with chip shield by nut and locknut.

To dismantle mainshaft assembly slide off top/3rd synchro assembly, noting interlocking plunger and ball in drilling through synchro hub. Press down plunger in shaft, locking 3rd gear splined thrust washer, releasing washer. Slide off 3rd gear with 41 needle rollers. Remove 1st gear and synchro assembly (same as top/3rd gear, with interlocking plunger and ball). Remove 2rd gear (same as 3rd gear). When reassembling note that interlocking plunger and ball in top/3rd and 2rd synchro hubs must be opposite cutaway splines on mainshaft and in synchro sleeves.

Reverse idler spindle should not be separated from rear extension housing as rubber sealing ring recessed in spindle cannot be replaced without special thimble.

When reassembling box insert small retaining rings in layshaft needle roller recesses, and insert 29 needle rollers in each end, sticking them in with thick grease. Insert outer retaining ring in front end of shaft with large bronze thrust washer. Stick on steel thrust washer (pegged to box). Insert stepped steel washer at rear (pegged to shaft) and small bronze thrust washer. Insert reverse gear into casing. Lower cluster into box and insert thin rod to support it.

Move reverse gear and lever forward in casing. Feed in mainshaft and primary shaft assemblies, and drive in ball bearing. Lift layshaft cluster with rod and insert dummy spindle .980in in diameter, with generous chamfer on end, into lay-



Parts of the gearbox, showing gear trains, casing and selector mechanism. Note assembly of the mainshaft synchronizing hubs and lockwashers, also that layshaft is integral cluster.

shaft so as not to disturb needle rollers. Assemble distance-piece and speedo gear on mainshaft, and offer up rear extension housing with layshaft spindle, and reverse spindle. Insert layshaft spindle, pushing out dummy spindle to front, picking up reverse gear on spindle as rear extension is pushed home. Complete assembly of

To dismantle top cover remove lever and pivot jaw assembly (nut on front of pivot housing). Detach sealing plate from rear of cover and unscrew plugs retain-ing selector springs and plungers. Un-screw taper-ended screws from selector forks and draw out rods to rear one at a time, catching interlock balls as they are released from cross-drilling in rear of

Propeller Shaft

·Hardy Spicer needle roller bearing universal joints, nipples provided for lubrication.

Rear Axle

Salisbury 4HA hypoid bevel drive, semi-floating shafts. Final drive housing integral with axle tubes, rear cover detachable.

To remove axle from car, disconnect brake fluid pipe, shock absorbers, brake cables and rear end of propeller shaft. Remove U-bolts, and hub and brake disc assembly from one side. Axle can then be passed through springs.

Rear axle used in this car compares in detail with that employed on Mk. VIII models, with the exception of the disc brake fitments. For all practical purposes and so far as the differential gear and half-shaft arrangement is concerned and for overhaul procedure, readers are re-ferred to Trader Service Data No. 197, noting that the nominal distance from crown wheel centre line to pinion head is 2.625in, not 2.750in and that hub bearing end float is .003in-.005in not .006in-.008in, as stated on page v of that data sheet. For additional information readers are also referred to Service Supplement Sheet No. 298/C38 which features this axle unit.

CHASSIS

Brakes

Dunlop disc type on all four wheels, Lockheed Vacuum servo-operated from pedal, handbrake operates footbrake mechanical linkage to rear wheels. Brake units comprise hub mounted disc and braking unit rigidly attached to rear axle. Caliper unit houses a pair of brake pads and pad carriers.

CHASSIS	DATA					
CLUTCH						
Make	Borg & Beck					
Torac	sdp					
	12					
colour	Yeilow/Lt. Green					
free length	2.68in					
[1] [4] [4] [4] [7] [7] [6] [6] [6] [6] [6] [6] [6] [6] [6] [6	6					
Madages Milaberras	red/cream					
44-	155145in					
41- 1-4	6.760-6.750in					
	0.700-0.700111					
GEARS	ox					
Туре	synchromesh					
No. of forward speeds	4					
	3.54 : 1 4.09 : 1					
	11.954 13.811					
	. 6.584 7.607					
	. 4.541 5.247					
	. 3.54 4.09					
	11.954 13.811					
Overdrive .	3.182					
BRAK	ES					
	Dunlop disc					
	12in					
	12in					
Brake cylinder bore diamete front						
	2 in					
rear	1510					
PROPELLE	SHAFT					
Make	. Hardy Spicer					
	Hardy Spicer Needle roller bear					
	ing UJ					

Since friction pads are self adjusting, adjustment and maintenance are confined to examination for wear and replacement of pads when worn to in thick.

Handbrake should only be adjusted by means of adjuster screws on rear calipers and then only to compensate for pad wear. Insert .004in feeler between pad and disc, screw in bolt until gauge is just nipped, withdraw gauge and check free rotation. If handbrake travel is still excessive, yoke at rear end of main cable may be adjusted and repositioned on its threaded rod by means of nut and securing locknut. Adjust so that there is no slack, but no cable should be in tension.

Further details of this system are contained in Service Supplement No. 310/C44. Lockheed 6gin vacuum servo unit has no mechanical connection with master cylinder, but operates integral hydraulic boost cylinder, and is controlled through reaction valve operated by fluid pressure.

Rear Springs

Semi-elliptic. Metal bonded rubber bushes for spring eyes and shackles. Tighten fully with weight of car on springs. Centre-bolts offset. Fit springs with shorter section to front,

	SHOO	K A	BSOF	RBERS	
Make (front) Type Service				Telesc	
	ST	ERIN	G B	ox	-
Typė Adjustments	: colum mesh	n end	float	Nii	and Pinio
	F	INAL	DRI	VE	
Туре	***	***	***	s e m i - i hypoid	loating
Crownwheel	bevel pi	nion to	eth:		
std o'drive	:::			46/13 45/11	
FRO	NT-EN	D SE	RVIC	E DATA	
Castor (static Camber (stati King pin incl Toe-in No. of turns Adjustments	ic laden ination lock to	static lock	lader	1) 5° 0-iin 21 shims	positive positive
		SPRI	IGS		
			j	Front	Rear
Length (eye c		laden)	:::	ind. t. b.	44in 12in
			***	200	5in
No. of leaves Free camber	[length				9110
No. of leaves Free camber Loaded camb	(length			_	in at

Front Suspension

Independent, torsion bars. Inner ends of upper and lower links pivoted in loose rubber bushes bonded to inner sleeves. Ball joints at outer ends. Upper link outer ball socket bolted between arms of link, with shims for castor adjustment. Ball pin tapered and fitted in top of stub axle carrier member. Ball joint is sealed and serviced only as assembly.

Suspension layout is similar to that employed on XK 120 models and readers are referred to Trader Service Data No. 185 for further details of service and repair operations.

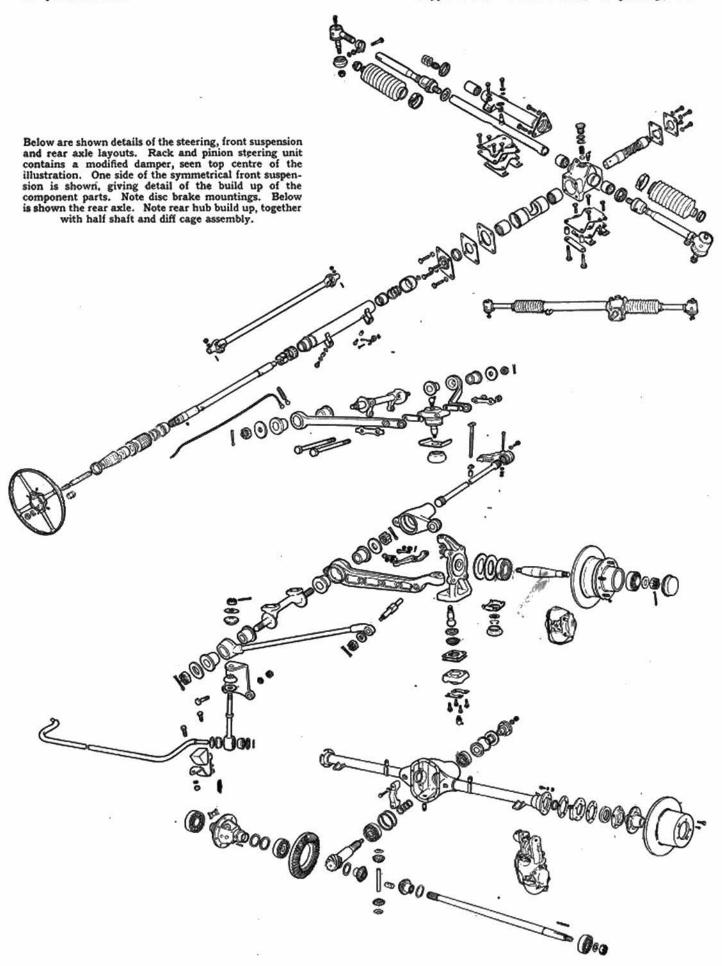
Steering Gear

Rack and pinion. Rack operates short track rods, adjustable for length, through ball joints at either end of rods, lubricated from rack. Only provision for adjustment is for pinion and rack mesh made by means of eccentric sleeve with external serrations at upper end over which square adjuster plate fits.

Shock Absorbers

Front and rear, Girling telescopic hydraulic, no provision for topping up.

	Bore mm	Comp. Ratio	Cylinder Head	Cam	Carbs.	Air Cleaner	Exhaust	Distributor	Igni tion Timing	Carb. Needle	Spark Plugs
XK 150 (3.4)	83	7:1	B Type sky blue	ł	SU HD6	AC	Twin	C.12733 (40578A)	4º BTDC	TL	L7
XK 150 (3.4)	83	8:1	B Type sky blue	ı	SU HDS	AC	Twin	G.12732 (40576A)	6° BTDC	TL	N5
XK 150 (3.4)	83	9:1	B Type sky blue	1	SU HD6	AC	Twin	C.14269 (40617A)	5° BTDC	TL	N5
XK 150 (3.8)	87	7:1	B Type met blue	1	SU HD6	AC	Twin				N5
XK 150 (3.8)	87	8:1	B Type met blue	ł	SU HD6	AC	Twin		:		N5
XK 150 (3.8)	87	9:1	B Type met blue	1	SU HD6	AG	Twin	G.14534 (40665A)	7º BTDC	TU	N5
XK 150 " 8 " (3.4)	83	9:1	Gold	ě	Triple SU HDS	Cooper air box	Twin	0.14268 (40616A)	9° BTDC	UE	N5
XK 150 " 8 " (3.4)	83	8:1	Gold	. 1	Triple SU HDS	Cooper air box	Twin	C.14952 (40670A)	9º BTDC	UE	N5
XK 150 " 8 " (3.8)	87	9:1	Gold	- 1	Triple SU HDS	Cooper air box	Twin	C.14269 (40617A)	10° BTDC	UE	N5



TU	NE-UP	DATA	
Firing order	***		1, 5, 3, 6, 2, 4, No. 1 at rear
Tappet clearance (c	old): inle	t	.004in
		aust	.006in
Valve timing: inlet		***	15° BTDC
	closes	3.11	57° ABDC
	ust opens		57° BBDC
	ust close	312	15° ATDC
Standard ignition ti	ming	449	see table be-
Location of timing	mark	20	Timing marks on engine d a m p e r . Pointer on
Plugs: make }	***	***	Champion (see table p.v.)
size	774		14 mm
gap			.025in
Carburettor: make		444	SU
type	***	***	see table p.v.
Settings: Choke) Main jet	***	***	see table p.v.
Air cleaner: make		***	see table p.v.
type	,		
Fuel pump: make	***	***	S.U.
type	***	***	electric AUA57
pressur	•		21 lb/sq in

LUCAS EQUIPMENT AND TEST DATA

No advance bel	ow 21in He.
8:1 Compressi	on Ratio:
Model DMBZ6	Part No. 40576
at 6,400 r.p.n	
No advance bel	ow 550 r.p.m.
Gentrifugal adv	ance springs. Part No. 424950
20in Hg.	dvance (crank degrees) 16°-20" with
No advance bel	
9:1 Compressi	on Ratio:
Model DMBZ6	Part No. 40617
4,000 r.p.m.	al advance (crank degrees) 24° at
No advance bel	ow 650 r.p.m.
Centrifugal adv	ance springs. Part No. 54410416
Max. vacuum with 20in Hg No advance bel	
*******	IGNITION COIL
Model HA12	Part No. 45067
Primary resista	nce 3.0-3.5 ohms
Running curren	it at 1,000 r.p.m. 1.0 amp
- v	VINDSCREEN WIPER
Model DR3	Part No. 75319 (R.H.D.)
moon bas	Part No. 75308 (L.H.D.)
	Tall 110: 10000 (E.H.D.)

	HORN(S)
Model HF 1748	Part No. 70071 (high note) Part No. 70063 (low note)
	Part No. 70063 (low note)
Type: High freque	incy
Current consumpt	ion 4 amp (per horn) FLASHER UNIT
Model FL5	Part No. 35010
	FUSE UNIT
Model 8F6	1002 01111
Fuse ratings 50 as	ma50 ama
	mp—oo amp.

TRANSMISSION	UNI	TS	
		Model	Part No
LAYCOCK			Ì
Transmission gear solenoid	2000	118	76515
Rotary throttle switch		128A	31504
Interruption switch		8810-1	31077
Relay BORG WARNER		8B60	33174
Throttle switch	2020	TOST	31392
Gear holding solenoid	1.10	118	76516
Starting motor		M45G	26097
Rotary Inhibitor switch		558A	31680
Brake line valve solenoid		BVSt	76502
Hydraulic pressure switch		HPS1	31393

		BULBS										
	Lamp	s			Model	Part I	No.	Lucas Number	Wa			
Head (Home a Head Export I Head Export I Head Export	L.H.D. J.S.A.	***			J700 J700 PF700	51762 51763 51562		404 406	60			
stated) Head Export I	rance		:::		PF700 F700EF	51507 51563		370	45			
Head Export, many Head Export I Head Export I	Hollan	d and	***	***	F700 F700 PF700	51564 51565 58293		350 370 370	35 45 45			
*Fog (except # *Fog (France) Side	rance		***		SFT576 SFT576 513	55174 55133 52175		323 323 207	48 48 6			
Front Flasher, U.S.A.					563 563	52271 52343		382 382	21 21			
Stop tail L.H. R.H		***			549 549	53350 53351		380 380	6/2			
Number plate Number plate					512 512	53215 53556		382 (rever 222 (No. p				

	E	ULBS			
Lamps	Model	Part No.	Lucas Number	Wattage	Cap
Head (Home and R.H.D. Export) Head Export L.H.D. Head Export U.S.A. Head Export Europe (except countries	J700 J700 PF700	51762 51763 51562	404 406	60/36 60/36	B.P.F. B.P.F.
stated) Head Export France Head Export, Norway, Sweden, Ger-	PF700 F700EF	51507 51563	370	45/40	B.P.F.
many Head Export Holland and Switzerland Head Export Italy	F700 F700 PF700	51564 51565 58293	350 370 370	35/35 45/40 45/40	B.P.F. B.P.F. B.P.F.
Fog (except France) Fog (France)	SFT576 SFT576 513	55174 55133 52175	323 323 207	48 48 6	B.P.F. B.P.F. 8.C.C.
Front Flasher, except U.S.A.	563 563	52271 52343	382 382	21 21	8.C.C. 8.C.C. 8.B.C.
R.H	549 549	53350 53351	380 380	6/21 6/21	Offset Pin 8.B.C. Offset pin
fumber plate and reverse (not France) fumber plate and reverse (France)	512 512	53215 53556	382 (rever 222 (No. p		8.0.C. M.C.C.

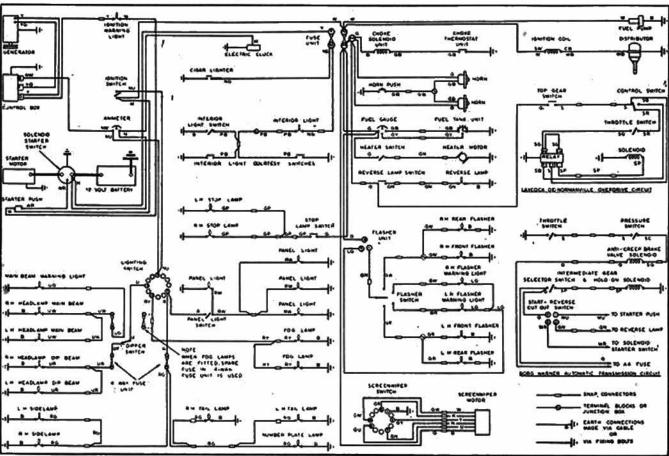
Model STG11E-2 OFF GENERATOR Model C45PV8-5 (earlier fitment) Part No. 22462 Model C45PV8-6 (later fitment) Part No. 22496 CONTROL BOX
Part No. 37189
(ter) | Part No. 37207
ter) | Part No. 37297 Model RB310 Model RB310 (later) Model RB310 (later) STARTING MOTOR
Model M45G | Part No. 26062
Drive: Eclipse Inboard DISTRIBUTOR

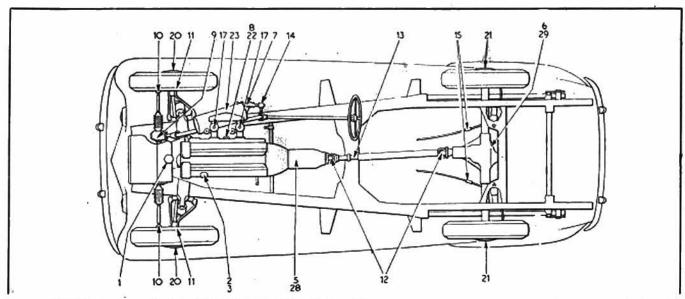
DISTRIBUTOR

Model DMBZ6A | Part No. 40578

7:1 Compression Ratio:
Max. centrilugal advance (crank degrees) 32°-36°
at 7,000 r.p.m.
No advance below 800 r.p.m.
Centrilugal advance springs | Part No. 425183

Max. vacuum advance (crank degrees) 20°-24°
with 20in. Hg.





KEY TO MAINTENANCE DIAGRAM

DAILY

1. Radiator 2. Engine sump }

top up

EVERY 2,500 MILES

EVERY 2,500 MILES

3. Engine sump—drain and refill.

4. Battery
5. Gearbox
6. Rear axle
7. Brake fluid reservoir
8. Engine oil filter—remove and clean.
9. Steering housing—oil gun.
10. Steering tie rod ball joints
11. King pins
12. Propeller shaft universal joints
13. Propeller shaft universal joints
14. Foot brake pedal boss
15. Handbrake cables
16. Clutch pedal free travel—check
17. Carburettor piston dampers—oil
18. Distributor—oil shaft bearing, auto advance contact breaker pivot, grease cam

EVERY 5,000 MILES as for 2,500 miles service plus following:

Carburettor filters—remove and clean
 Front wheel bearings
 grease gun

	Engine oil filter—renew Air cleaner—clean and re-oil	
24.	Accelerator linkage Handbrake ratchet	

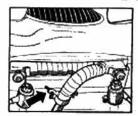
26. Screen wiper pivots 27. Door, bonnet, bootlid, petrol filler cover, locks and hinges

EVERY 10,000 MILES, as for 5,000 miles plus following:

28. Gearbox 29. Rear axie drain and refil' 30. Overdrive oil pump*—clean oil filter 31. Petrol pump filter—clean *If filted.

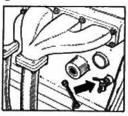
FILL-	UP DATA		
	Pints	Litres	
Engine sump*	13	71	
Gearbox (without over- drive)	21	11	
Gearbox (with over- drive) Rear axle	3 21	2 i	
Cooling system (including heater) Fuel tank Tyre pressures: front rear	23 14 galls 23 lb/sq. in. 26 lb/sq. in.	13 63 j 1.6 Kg/cm ² 1.85 Kg/cm ²	

DRAINING POINTS



Left: shows a view from underside of radiator matrix drain tap, access from beneath.

Right: shows cylinder block drain tap on near-side of engine.



RECOMMENDED LUBRICANTS

		S.A.E. No.	Mobil	Wakefield	Shell	Esso	B.P.	Duckham's
	Above 90°F	40	Mobiloil AF	Castrol XXL	X-100 40	Extra Motor Oil 40/50	Energol 40	NOL 40
Engine	32° to 90° F	30	Mobilell A	Castrol XL	X-100 30		Energol 30	NOL 30
	Below 32°F	20	Mobileil Arctic	Castrolite	X-100	Extra Motor Oil 20W/30	Energol 20	NOL 20
Gearbox, Carb Distributor,	ourettor dashpot, Oil can	30	Mobilell A	Castrol XL	X-100 30		Energol 30	NOL 30
Automatic Tr	ansmission	(AQ-ATF)	Mobil Fluid 200	Castrol TQ ATF Grade "A"	Donax T6	Automatic Fluid 55	ATF Type "A"	Nolmatic
Rear Axle		90	Mobilube GX 90	Castrol Hypoy	Spirax 90 EP	Expec Compound 90	Energol EP 98	Hypoid 200
Propeller shaf	t, U.J.s	140	Mobilube C 140	Castrol D	Spirax 140 FtP	Gear Oil 140	Energol 140	NOL EP 140
peller shaft	es (except pro- needle roller ering housing	-	Mobilgrease MP	Castrolease Medium or WB	Retinax RB or A	Grease or High Temp. Grease	Energrease C3 or N3	LB 10 Grease or H.P.G.
Wheel hubs a	nd distributor	-	Mobilgrease MP	Castrolease WB	Retinax A Grease	High Temp. Grease	Energrease N3	LB 10 Grease
Upper cylinder	lubricant	-	Upperlube	Castrolio	Donax U	Upper Cylinder Lubricant	Energol U.C.L.	Adcoid Liquid
Brake fluid res	servoir			Wakef	eld Crimson fluid	(disc.)		