# "MOTOR TRADER" Service Data

# 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 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. matic transmission.

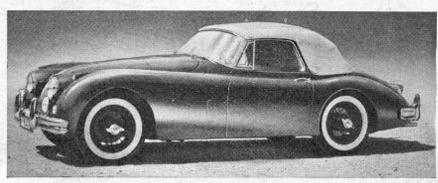
Engine power is transmitted to the rear road wheels in entirely orthodox fashion, via a single dry plate clutch, synchro-mesh gearbox, single stage propeller shaft and the hypoid bevel drive of a semi-floating Salisbury 4HA rear axle. Power output varies with initial specification and stage of tune and 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 indicating the compression ratio of the model in question. Cylinder heads are coloured in accordance with the table on p. v. Gear-box numbers are stamped on a boss at box 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 the 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. Set-screws 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, con-trols and cables fitted to engine. Remove exhaust downpipes at flanges and disconnect propeller shaft.

Take out interior carpets and remove

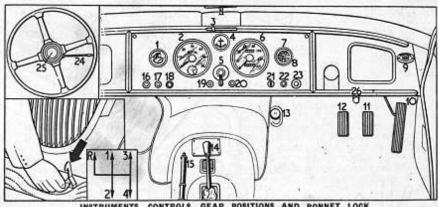
gearbox cowl and floorboards, and take off gearbox top cover complete with gear lever. Blanking plate should be fitted to top of gearbox to prevent damage. Jack up and support rear of engine and re-

move mounting brackets and rubbers. Detach clutch hydraulic slave cylinder from bracket and remove crankshaft

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 main



INSTRUMENTS, CONTROLS, GEAR POSITIONS AND BONNET LOCK

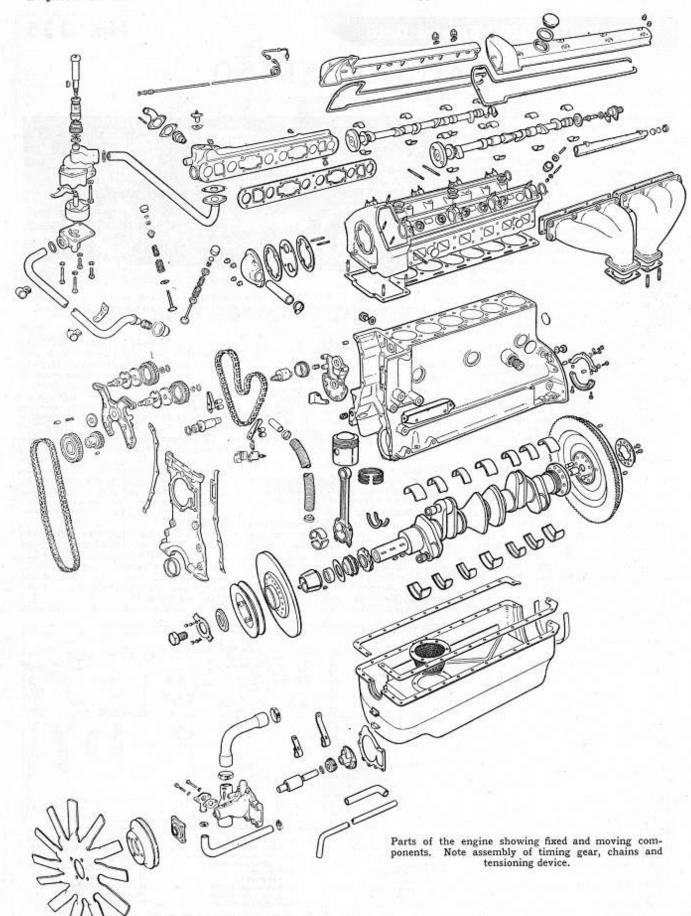
- Fuel gauge Engine r.p.m. indicator Heater control Ammeter

- 1. Fuel gauge
  2. Engine r.p.m. indica
  3. Heater control
  4. Ammeter
  5. Lighting switch
  6. Speedometer
  7. Oil pressure gauge
  8. Water temp. gauge
  9. Overdrive switch

- 10. Accelerator
  11. Brake pedal
  12. Clutch pedal
  13. Headlamp dip switch
  14. Gearlever
  15. Handbrake
  16. Screenwiper 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 releasing bonnet safety catch from outside car; and, inner left, operative positions of gear lever.

SERVICE DATA SHEET	IND	EX ENTRY-JANU	ARY	COMPONENT SUPPLEMENT	
Jaguar XK150	335	27/1/60	334/053	Smiths Automatic Transmission (Part 2)	
Jaguar XK100	330	27)1,00	004/100	America Maramaria Lienaminasia.	



	GENERA	L DATA		
Wheelbase		400	Sit 6	in
Track: front	111	111	4ft 2	
rear	144	211	4Ht 2	
Turning circle	44)	111	33ft C	)un
Ground clearance		144	7in	
Tyre size: front   rear	- 111		6.00-	-16in
Overall length	***	2000	14H S	lin .
Overall width			5ft 4	
Overall height	0000		4ft 7	in
Weight (dry) f/h	coupe	4	26 cw	rt
	coupé		261 c	wt
NUT TIG	HTENIN	G TORQU	E DATA	
1000-100		-	R	/ft
25/00/22/22				
Flywheel holts	111	999		17
Con-rod nuts		440		13
Main bearing nu		201		4
Cylinder head nu Camshaft bearing		711	333	5
Camsnart Dearm	gs	100	Tr.	
BALL AN	ROLL	ER BEAF	ING DAT	A
	Part No.	Int. dia.	Ext. dia.	Тур
	no.	Width /	n or mm)	.,,,
		********	G - Common	_
ENGINE Water pump GEARBOX	C8167	-	-	-
Water pump	C1838	- 40×9	0 mm	- В
Water pump GEARBOX Constant mesh pinion Mainshaft FRONT AXLE		- 40×9	-	BB
Water pump GEARBOX Constant mesh pinion Mainshaft	C1838	40×8 18×	0 mm	

bearing shells without removal of crank-shaft, but this should be done only in direst emergency. Thrust half-washers direst emergency. 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 tor-sional 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 steel-backed, lead bronze-lined shells located

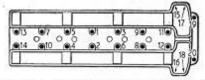


Diagram showing order of tightening cylinder head stud nuts. See also table of Nut Tightening Torque Data this page.

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 bellhousing). 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, non-interchangeable. Press in until outer end of guide projects in 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 cylii Bore × str Capacity: R.A.C. rat Max. b.h.p Max. torqu Compression	nders roke: m ir c.c. cu in ed h.p at r.p	.m		3.2 344 211 25. 211	× 106 1677 × 4.1732 12
CF	ANKS	HAFT AN	ID C	ON. F	RODS
		Main Bea	rings		Crankpins
Diameter		2.75in			2.086in
	No. 1	2, 3, 5, 6	4	7	10-3-01
Lgth (in)	1+;	1,72	12	17	1-}in
Running of End float: Undersizes Con. rod co No. of tee pinion	main b 	big end earings big end	is	gear	.0015003ir .0010025ir .004006in .006008in .020, .030, .040in 7.750in
	PISTO	NS AND	RIN	GS	TT T
Clearance Oversizes	(skirt)		***		0017in .020, .030in
Weight wi  7:1 GR Gudgeon	pin: d		m)	doub	ioz -,8749in le thumb push 68°F.
	100	Compre	ssion	ent	Oil Control
		2			1

† 8 : 1 CR-11b 3oz. 9:1 C.R .- 1lb 4oz.

	CAM	HAF	r	
End float Cam lift Timing chain: pitch No. c up			1.00000 .000500 .004500 (See table § in 100 82	.001 in 2 in 8 in
	VA	LVES		
			Inlet	Exhaust
Stem diameter			1∄in ∰in 45°	1∦in ∱in 45°
			Inner	Outer
Spring length: free fitted rate			1.656in 1.5in 69.3 lb/in	1.935in 1-in 77.4 lb/in

\* Alternative bore sizes, see table p.v.

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

moval of gearbox and bell-housing.

#### Gearbox

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

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 pro-peller 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 main-shaft 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.

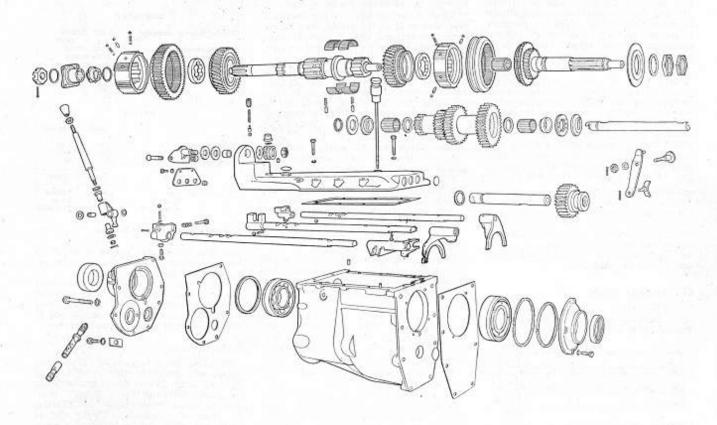
Primary shaft ball bearing retained on shaft with chip shield by nut and lock-

To dismantle mainshaft assembly slide off top/3rd synchro assembly, noting in-terlocking plunger and ball in drilling through synchro hub. Press down synchro plunger in shaft, locking 3rd gear splined thrust washer, releasing washer. Slide off 3rd gear with 41 needle rollers. move 1st gear and synchro assembly (same as top/3rd gear, with interlocking plunger and ball). Remove 2nd gear (same as 3rd gear). When reassembling note that interlocking plunger and ball in top/3rd and 2nd 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 bear-ing. 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 de-

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 footbrake pedal, handbrake operates 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	A Lancas Commission of the Com
Make	Borg & Beck
Transcription of the second of	sdp
Davinson on	12
and Bernary	Yeilow/Lt. Green
Beer Branchi	2.68in
	6
	red/cream
I Indiana Ablahaman	155145in
Alle and	9.870-9.840in
After South	6.760-6.750in
220,000, 300, 0	
GEARB	ox
Type	synchromesh
Ma of forward conside	4
	3.54:1 4.09:
Final ratios: 1st	11.954 13.811
	6.584 7.607
	4.541 5.247
	3.54 4.09
Rev.	11.954 13.811
overdrive .	3.182
BRAK	ES
Гуре	Dunlop disc
Maria allamanta de la compania del compania del compania de la compania del la compania de la compania della della compania de	12in
rear	12in
Brake cylinder bore diamete	
	2in
rear	1ŝin
PROPELLER	SHAFT
Make	Hardy Spicer
Гуре	Needle roller bear

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 con-

tained 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,

SHOCK ABSU	RBERS	
Type	Girlin Telesc Repla	
STEERING E	зох	
Type Adjustments: column end floa mesh	t Nil	and Pinio
FINAL DR	IVE	
Туре	hypoid	loating
Crownwheel/bevel pinion teeth std o'drive	46/13	
FRONT-END SERVI	CE DATA	
Camber (static laden) King pin inclination (static lader to inclination) No. of turns lock to lock Adjustments: castor camber	5° 0-in 23 shims	positive positive d tie rod
SPRINGS		
	Front	Rear
	ind. t. b.	44in
Length (eye centres, laden) Width No. of leaves Free camber (length, coil) Loaded camber (length, coil) at load	Ξ	1≩in 7 5≟in

## 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 em-ployed on XK 120 models and readers are referred to Trader Service Data No. 185 for further details of service and repair operations.

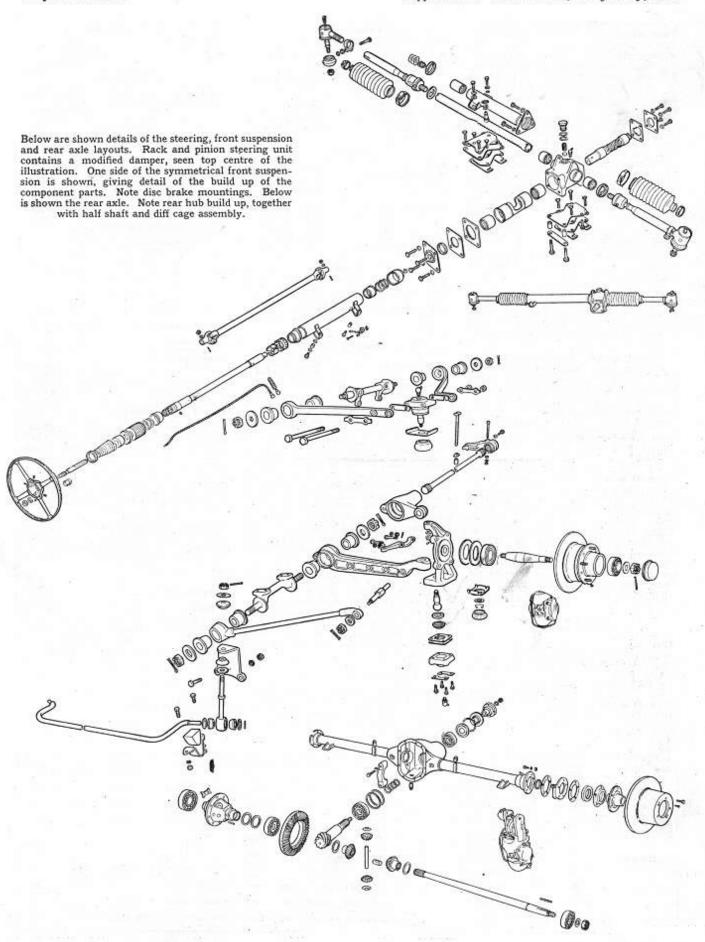
# Steering Gear

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	Comp. Ratio	Cylinder Head	Cam	Carbs.	Air Cleaner	Exhaust	Distributor	Igni tion Timing	Carb. Needle	Spark
XK 150 (3.4)	83	7:1	B Type sky blue	1	SU HD6	AC	Twin	C.12733 (40578A)	4° BTDC	TL	L7
XK 150 (3.4)	83	8:1	B Type sky blue	8	SU HD6	AC	Twin	C.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	1	SU HD6	AC	Twin				N5
XK 150 (3.8)	87	9:1	B Type met blue		SU HD6	AC	Twin	G.14534 (40665A)	7° BTDC	TU	N5
XK 150 " 8 " (3.4)	83	9:1	Gold	3	Triple SU HD8	Cooper air box	Twin	0.14268 (40616A)	9° BTDC	UE	N5
XK 150 " 8 " (3.4)	83	8:1	Gold	. 4	Triple SU HD8	Cooper air box	Twin	C.14952 (40670A)	9° BTDC	UE	N5
XK 150 " 8 " (3.8)	87	9:1	Gold	1	Triple SU HD8	Cooper air box	Twin	C.14269 (40617A)	10° BTDC	UE	N5



TUN	E-UP	ATA	
Firing order	399	240	1, 5, 3, 6, 2, 4
Tappet clearance (col		t	.004in .006in
Valve timing: inlet or			15° BTDC
inlet of	oses	61.6	57° ABDC
exhaus			57° BBDC
exhaus Standard ignition tim		11 12 77 mm	15° ATDC
oranoare ignition tim	ing	***	low.
Location of timing m	ark	940	Timing mark
			damper Pointer or
Plugs: make )			Sump. Champion (se
type 3 ***	000	440	table p.v.)
size	***	4-4-	14 mm
gap		***	.025in
Carburettor: make	1986		SU
type	100		see table p.v
Settings: Choke ) Main jet		233	see table p.v
Air cleaner: make )			see table p.v
type /	***	837	
Fuel pump: make	***	559	S.U.
type	***	***	electric AUA57
pressure		723	21 lb/sq in

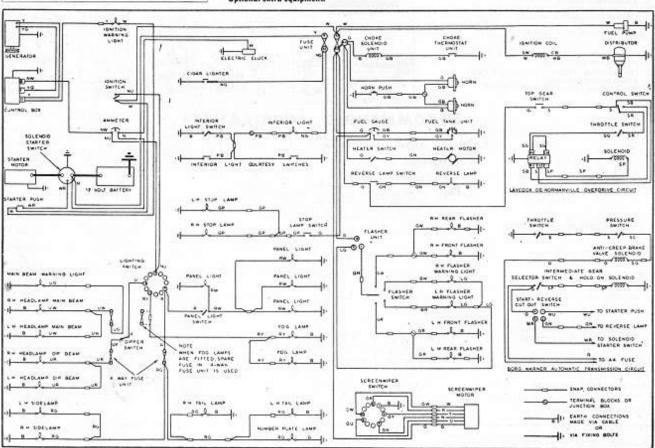
LUCAS EQUIPME	NT AND TEST DATA
BA Model STG11E-2 OFF	TTERY
Model C45PV8-5 (earli	ERATOR er fitment) Part No. 22462 r fitment) Part No. 22496
	ROL BOX
Model RB310 Pa	art No. 37189
Model RB310 (later) Model RB310 (later)	Part No. 37207 Part No. 37297
	ING MOTOR
Model M45G Drive: Ecli	Part No. 26062 pse Inboard
DIST	RIBUTOR
Model DMBZ6A	Part No. 40578
7:1 Compression Ratio	
at 7,000 r.p.m.	ce (crank degrees) 32°-36°
No advance below 800 r	.p.m.,
Gentrifugal advance spr Max. vacuum advanc with 20in. Hg.	ings [ Part No. 425183 e (crank degrees) 20°-24°

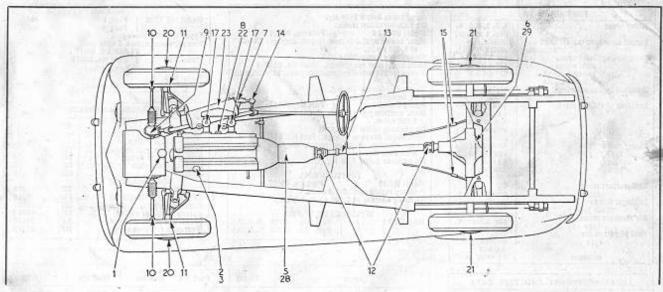
No advance below 2½in Hg.  8:1 Compression Ratio: Model DMBZ6  Max. centrifugal advance (crank degrees) 34°-38" at 6,400 r.p.m. No advance below 550 r.p.m. Gentrifugal advance (crank degrees) 16°-20° with 20in Hg. No advance below 5in Hg. 9:1 Compression Ratio: Model DMBZ6  Max. centrifugal advance (crank degrees) 24° at 4,000 r.p.m. No advance below 650 r.p.m. Centrifugal advance (crank degrees) 16°-20° with 200 r.p.m. No advance below 650 r.p.m. Centrifugal advance (crank degrees) 14°-18° Max. vacuum advance (crank degrees) 14°-18°
IGNITION COIL Model HA12   Part No. 45067 Primary resistance 3.0-3.5 ohms Running current at 1,000 r.p.m. 1.0 amp
Model DR3   WINDSCREEN WIPER   Part No. 75319 (R.H.D.)   Part No. 75308 (L.H.D.)

	HORN(S)
Model HF 1748	Part No. 70071 (high note) Part No. 70063 (low note)
Type: High freque	ency
Current consumpt	lion 4 amp (per horn) FLASHER UNIT
Model FL5	Part No. 35010
Telephone (Control of Control of	FUSE UNIT
Model SF6	

TRANSMISSION	UNI	TS	
		Model	Part No.
LAYCOCK		Total C	Meyers.
Transmission gear solenoid		118	76515
Rotary throttle switch		128A	31504
Interruption switch	0.00	8810-1	31077
Relay BORG WARNER		SB60	33174
Throttle switch	1000	TOS1	31392
Gear holding solenoid	100	118	76516
Starting motor	65.1	M45G	26097
Rotary Inhibitor switch		558A	31680
Brake line valve solenoid		BVS1	76502
Hydraulic pressure switch		HPS1	31393

	В	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 *Fog (except France)	F700 F700 PF700 SFT576	51564 51565 58293 55174	350 370 370 323	35/35 45/40 45/40 48	B.P.F. B.P.F. B.P.F.
*Fog (France) Side Front Flasher, except U.S.A	SFT576 513 563	55133 52175 52271	323 207 382	48 6 21	B.P.F. 8.C.C. 8.C.C.
U.S.A.	563 549 549	52343 53350 53351	382 380 380	6/21 6/21	S.C.C. S.B.C. Offset Pin S.B.C.
Number plate and reverse (not France)	512 512	53215 53556	382 (rever	se) 21	Offset pir S.C.C. M.C.C.





#### KEY 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:

19. Carburettor filters—remove and clean
 20. Front wheel bearings
 21. Rear wheel bearings

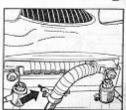
22. Engine oil filter—renew
23. Air cleaner—clean and re-oil
24. Accelerator linkage
25. Handbrake ratchet
26. Screen wiper pivots
27. Door, bonnet, bootlid, petrol
filler cover, locks and hinges

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

- 28. Gearbox
  29. Rear axle
  30. Overdrive oil pump\*—clean oil filter
  31. Petrol pump filter—clean
  \*If fitted.

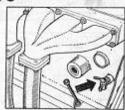
FILL-	UP DATA	TALLY DE
of the final	Pints	Litres
Engine sump*	13	7½
Gearbox (without over- drive)	21	1)
Gearbox (with over-	3 23	21
Rear axle Cooling system (includ-		19
ing heater) Fuel tank	23 14 galls	13 63
Tyre pressures: front rear	23 lb/sq. in. 26 lb/sq. in.	1.6 Kg/cm <sup>2</sup> 1.85Kg/cm <sup>2</sup>

# DRAINING POINTS



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

shows cylinder Right: block drain tap on nearside of engine.



#### LURRICANTS RECOMMENDED

		S.A.E. No.	Mobil	Wakefield	Shell	Esso	В.Р.	Duckham's
ДЪ	ove 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	Mobiloil A	Castrol XL	X-100 30		Energol 30	NOL 30
· Be	ow 32°F	20	Mobiloil Arctic	Castrolite	X-100	Extra Motor Oil 20W/30	Energol 20	NOL 20
Gearbox, Carburett Distributor, Oil o		30	Mobiloll A	Castrol XL	X-100 30		Energol 30	NOL 30
Automatic Transm	ission	(AQ-ATF) type "A"	Mobil Fluid - 200	Castrol TQ ATF Grade "A"	Donax T6	Automatic Fluid 55	ATF Type "A"	Nolmatie
Rear Axle	em m	90	Mobilube GX 90	Castrol Hypoy	Spirax 90 EP	Expec Compound 90	Energol EP 99	Hypoid 90
Propeller shaft, U.,	I.s	140	Mobilube C 140	Castrol D	Spirax 140 EP	Gear Oil 140	Energol 140	NOL EP 140
Chassis nipples (e. peller shaft nee bearing) steering	dle roller		Mobiligrease 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 and o	listributor	D 31	Mobilgrease MP	Castrolease WB	Retinax A Grease	High Temp. Grease	Energrease N3	LB 10 Grease
Upper cylinder lubr	icant	( <del>-</del> /	Upperlube	Castrollo	Donax U	Upper Cylinder Lubricant	Energol U.C.L.	Adeoid Liquid
Brake fluid reservo	ir			Wakef	ield Crimson fluid	l (disc.)	7 - 5 - 1 - 1	