

CATALOGUE



DEPENDABLE

CHAMPION

PLUGS

CHAMPION SPARKING PLUGS

FITTED BY
75% OF BRITAIN'S
CAR MANUFACTURERS



ROLLS-ROYCE

BENTLEY

AUSTIN

FORD

HILLMAN

HUMBER

JAGUAR

M.G.

MORRIS

RILEY

SINGER

STANDARD

SUNBEAM-TALBOT

TRIUMPH

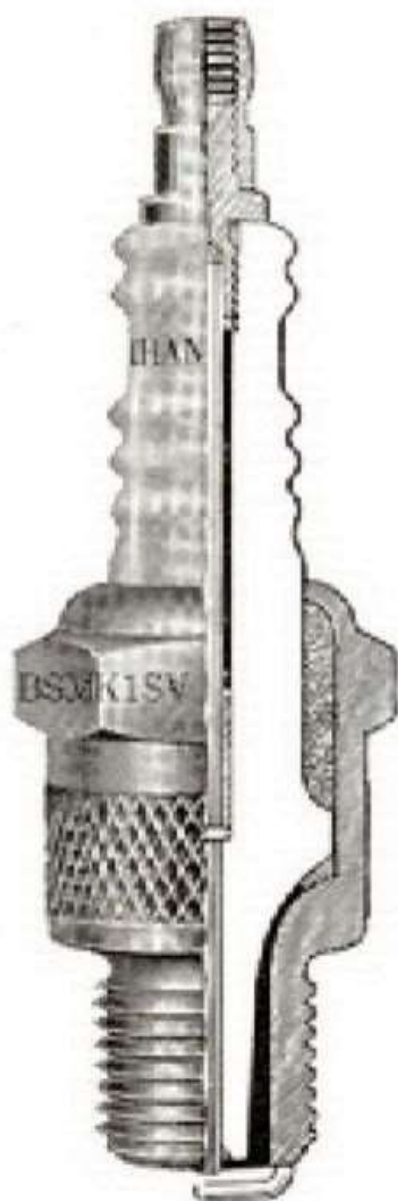
WOLSELEY

WORLD'S FAVOURITE PLUG

www.fpw.it

PATENTED FEATURES

that make Champion the
better Sparking Plug . . .



CHAMPION-CERAMIC INSULATOR

A product of Champion Research. "Champion-Ceramic" has been developed exclusively for sparking plug insulation. It has established new standards for heat dissipation, dielectric and mechanical strength, and resistance to sudden heat shocks—qualities essential to a perfectly balanced sparking plug insulator.

SILLMENT COMPRESSION SEAL

A compressed dry powder which forms an effective seal and raises the efficiency of Champions far beyond that of any other sparking plug. Leakage here means raising the temperature of the plug, throwing it out of the proper heat range. Service troubles, compression loss and early electrode destruction are eliminated. The material, method, process and machinery are all covered by basic Champion patents.

SPECIAL ALLOY ELECTRODES

Special alloy with catalytic agent to prevent bridging of gap—oxidization or carbon formation on the wire itself. Covered by broad and exclusive Champion patents.

CHAMPION GENERAL LINE

INDEX

Contents	Page
Champion Patented Features	3
Index	4
Champion Plugs :—	
14 mm. Types	5-11
10 mm. Types	11
18 mm. Types	12-16
$\frac{3}{8}$ " S.A.E. Types	16-17
Suppressor Types	18-19
Comparison Chart	20-23
Operating Range	24
Terminals	25
Gap Gauge and Settings	26
Champion Recommendations for :—	
Passenger Cars	27-33
Commercial Vehicles	33-36
Motor Cycles	36-40
Autocycles, Scooters and Bicycle Attach- ment Engines	41
Tractors	42-44
Marine Engines—Outboard and Inboard	44-47
Farm, Stationary, Lighting and Miscellan- eous Engines	48-50
Series 600 Service Unit Spares Kit	51
Champion Series 600 Service Unit	52-53
Series 600 Service Unit Parts Price List	54-55



TYPE L-10

Specification :

Thread diameter 14 mm.	Hexagon ... $\frac{13}{16}$ in.
Reach ... $\frac{1}{2}$ in.	Gap setting—see page 26
Terminal ... A 548	

The standard 14 mm. plug official equipment on:—
Austin (to 1946), Allard, Alvis (1946 on), Ford, Hillman,
Humber (1936-45), Jaguar (1949 Mark V), Jowett
Javelin, Morris, Triumph, Renown, Vanguard and
Wolseley.

Each 5/-

www.fpw.it

TYPE L-10S

Specification :

Thread Diameter 14 mm.
Reach $\frac{1}{2}$ in.
Terminal A 548
Hexagon $\frac{13}{16}$ in.
Gap setting—see page 26

For Motor Cycles and Sports Cars as recommended. Official equipment on Singer, M.G., B.S.A., Riley $1\frac{1}{2}$ litre.

Each 5/-



L-10S

TYPE L-11S

Specification :

Thread Diameter 14 mm.
Reach $\frac{1}{2}$ in.
Terminal A 548
Hexagon $\frac{13}{16}$ in.
Gap setting—see page 26

For Sports type Motor Cycles as recommended. Official equipment on Triumph and B.S.A.

Each 5/-



L-11S



N-8B

TYPE N-8B

Specification :

Thread Diameter 14 mm.
 Reach $\frac{3}{4}$ in.
 Terminal A 548
 Hexagon $\frac{13}{16}$ in.
 Gap setting—see page 26
 Long reach type

Official equipment on :—
 Austin, Ford, Humber,
 Singer, Jaguar, Commer,
 Karrier, Guy, B.S.A.

Each 5/-



NA-8

TYPE NA-8

Specification :

Thread Diameter 14 mm.
 Reach $\frac{3}{4}$ in.
 Terminal A 146
 Hexagon $\frac{13}{16}$ in.
 Gap setting—see page 26

Official equipment on :—
 Austin, Morris, Riley, B.S.A.

Each 5/-

TYPE J-8

Specification :

Thread Diameter 14 mm.
Reach $\frac{3}{8}$ in.
Terminal A 548
Hexagon $\frac{13}{16}$ in.
Gap setting—see page 26

Short reach type
Specially recommended for
Vauxhall and Bedford

Each 5/-



J-8



J-12

TYPE J-12

Specification :

Thread Diameter 14 mm.
Reach $\frac{1}{2}$ in.
Terminal A 548
Hexagon $\frac{13}{16}$ in.
Gap setting—see page 26

Oil-resisting type
Specially recommended for
Vauxhall and Bedford

Each 5/-

WORLD'S FAVOURITE PLUGS



J-6

TYPE J-6 (formerly J-10 Com.)

Specification :

Thread Diameter 14 mm.
Reach $\frac{3}{8}$ in.
Terminal A 146
Hexagon $\frac{11}{16}$ in.
Gap setting—see page 26

Short reach for high compression engines as recommended.

Each 5/-

TYPE NA-10

Specification :

Thread Diameter 14 mm.
Reach $\frac{3}{8}$ in.
Terminal A 548
Hexagon $\frac{11}{16}$ in.
Gap setting—see page 26

Each 5/-



NA-10

OF YOUR CAR'S PERFORMANCE

www.fpw.it

DEPENDABLE CHAMPION

TYPE L-8

Specification :

Thread Diameter 14 mm.
Reach $\frac{1}{2}$ in.
Terminal A 146
Hexagon $\frac{11}{16}$ in.
Gap setting—see page 26

Official equipment on
Power-Pak.

Each 5/-



L-8



N-7

TYPE N-7

Thread Diameter 14 mm.
Reach $\frac{3}{4}$ in.
Terminal WL 548
Hexagon $\frac{11}{16}$ in.
Gap setting—see page 26

Official Equipment for
Ferguson, New Fordson
Major Tractors and Nuffield

Each 5/-

Detachable type.

www.fpw.it

CHAMPIONS FOR SERVICE



H-10

TYPE H-10

Specification :

Thread Diameter 14 mm.
Reach $\frac{7}{16}$ in.
Terminal A 548
Hexagon $\frac{3}{8}$ in.
Gap setting—see page 26
For Citroen and American
Cars as recommended.

Each 5/-

TYPE Y-6

Specification :

Thread Diameter 10 mm.
Reach $\frac{1}{4}$ in.
Terminal Post JA 548
Hexagon $\frac{5}{8}$ in.
Gap setting—see page 26
10 mm. $\frac{1}{4}$ in. reach.

Each 5/-



Y-6

CHAMPION FOR EASY STARTING



7

TYPE 7

Specification :

Thread Diameter 18 mm.
Reach $\frac{1}{2}$ in.
Terminal ... AB 548
Hexagon... .. 1 in.
Gap setting—see page 26
Standard 18 mm. Plug.

Official equipment on Ford V8, 30 H.P. engines and recommended for cars with normal compression taking 18 mm. plugs.

Each 5/-

TYPE 15

Specification :

Thread Diameter 18 mm.
Reach $\frac{1}{2}$ in.
Terminal ... A 548
Hexagon... .. $\frac{3}{4}$ in.
Gap setting—see page 26

For American engines as recommended.

Detachable 18 mm. type, small hexagon.

Each 5/-



15

TYPE 16

Specification :

Thread Diameter 18 mm.
 Reach $\frac{1}{2}$ in.
 Terminal A 146
 Hexagon $\frac{7}{8}$ in.
 Gap setting—see page 26

Super Sports for Motor
 Cycles and Sports Cars as
 recommended.

Each 5/-



16



17

TYPE 17

Specification :

Thread Diameter 18 mm-
 Reach $\frac{1}{2}$ in.
 Terminal A 146
 Hexagon $\frac{7}{8}$ in.
 Gap setting—see page 26

For Sports Cars and
 Motor Cycles.

Each 5/-



11 Com.

TYPE 11 Com.

Specification :

Thread Diameter 18 mm.
 Reach $\frac{1}{2}$ in.
 Terminal ... AB 146
 Hexagon... .. 1 in.
 Gap setting—see page 26

Long body.

Each 5/-

TYPE 8 Com.

Specification :

Thread Diameter 18 mm.
 Reach $\frac{1}{2}$ in.
 Terminal ... A 146
 Hexagon... .. 1 in.
 Gap setting—see page 26

Detachable type for engines
 of medium compression.

Each 5/-



8 Com.

COMMERCIAL VEHICLE TYPES

TYPE 7 Com.

Specification :

Thread Diameter 18 mm.
Reach $\frac{1}{2}$ in.
Terminal A 146
Hexagon... .. 1 in.
Gap setting—see page 26
Detachable type.

Each 5/-



7 Com.



7 Com.-L

TYPE 7 Com.-L

Specification :

Thread Diameter 18 mm.
Reach $\frac{3}{8}$ in.
Terminal AB 146
Hexagon... .. 1 in.
Gap setting—see page 26
Official equipment on
Morris Commercial.

Each 5/-

15

INJECTION AND TRACTOR

TYPE D-8

Specification :

Thread Diameter 18 mm.
 Thread Reach ... $\frac{1}{2}$ in.
 Overall Reach ... 1 in.
 Terminal ... A 146
 Hexagon ... 1 in.
 Gap setting—see page 26
 For solid injection type engines.

Each 5/-



D-8



20

TYPE 20 (formerly Type 21)

Specification :

Thread Diameter $\frac{7}{8}$ in. SAE
 Reach $\frac{3}{4}$ in.
 Terminal ... A 146
 Hexagon $\frac{1}{2}$ in.
 Gap setting—see page 26
 Detachable type, small
 Hexagon for American
 Tractors and Trucks.
 Official equipment on Inter-
 national, John Deere, etc.

Each 5/-

TRACTOR TYPES



I Com.

TYPE I Com.

Specification :

Thread Diameter $\frac{7}{8}$ in. SAE
 Reach $\frac{5}{8}$ in.
 Terminal A 146
 Hexagon... .. $\frac{11}{16}$ in.
 Gap setting—see page 26
 Detachable type, small hexagon twin side wires. For American Tractors and Trucks as recommended.
 Each 5/

TYPE C-5

Specification :

Thread Diameter $\frac{7}{8}$ in. SAE
 Reach $\frac{5}{8}$ in.
 Terminal A 446
 Hexagon... .. $1\frac{1}{8}$ in.
 Gap setting—see page 26
 Detachable type.
 Official equipment on Ford and Fordson.

Each 5/.



C-5

FITTED WITH



XL-10

TYPE XL-10

Specification :

Thread Diameter 14 mm.
Reach $\frac{1}{2}$ in.
Terminal Post ... A 548
Hexagon... .. $\frac{13}{16}$ in.
Gap setting—see page 26

Each 6/-



XN-8B

TYPE XN-8B

Specification :

Thread Diameter 14 mm.
Reach $\frac{3}{4}$ in.
Terminal Post ... A 548
Hexagon... .. $\frac{13}{16}$ in.
Gap setting—see page 26
Long reach type

Each 6/-

SUPPRESSORS

TYPE] XJ-8

Specification :

Thread Diameter 14 mm.
Reach $\frac{3}{8}$ in.
Terminal Post ... A 548
Hexagon... .. $\frac{13}{16}$ in.
Gap setting—see page 26

Short reach type

Each 6/-



XJ-8



X-7

TYPE X-7

Specification :

Thread Diameter 18 mm.
Reach $\frac{1}{2}$ in.
Terminal Post ... AB 548
Hexagon... .. 1 in.
Gap setting—see page 26

Standard 18 mm. Plug

Each 6/-

CHAMPION COMPARISON CHART

SPARKING PLUG COMPARISON CHART

20

Size	CHAMPION					A.C.	AUTOLITE	BOSCH	K.L.G.	LODGE
	Type	Two-Cycle Engines	Superpressor Types							
HOT 10 m/m $\frac{3}{8}$ " Thread $\frac{1}{8}$ " COLD Hexagon	*Y-8...	.....	.....	MB, 108.....	P6, PR6...	U95T3...	TEN20S.....	CL10, HL10P
	Y-7...	.....	.....	.....	.....	.....	TENL50.....	G10.....
	Y-6...	.....	.....	106.....	.....	U145T3...	TEN50.....	.....	
	*Y-4...	.....	.....	104, 103, 103S.	P4, PR4...	U175-200T3	TEN50.....	.....	
HOT 12 m/m	*P-5...	.....	.....	.....	.....	X175T1..	TW50.....	C12.....
	*J-14 ..	.....	.....	49, 48.....	.....	W95T1 ..	F20.....	BB14S.....
	J-12 ..	*J12J ..	.....	47, 47Com, 46X	A11, AR10	W125T1 ..	TFS20.....	BAN, BS14..	
	*J-11 ..	*J11J ..	.....	46-5, 46, 46Com, 45-46X	A9.....	W125T3 ..	.....	.....
HOT 14 m/m	J8.....	*J8J ..	XJ8 ..	45Com, 44-5 Com, 44-5	ARB, AT8, A7, AN7, 45-140, 45-165	W145T4 .	TFS50	CAN.....		
	*J-7 ...	*J7J ..	.....	44, 44Com...	A5, AN5, AR5	W175T3 .	.....	.....
	J-6 ...	*J6J ..	.....	43, 43Com...	AT4, AH4	W225T4 .	FS70.....	HAN.....	
	*J-5 ...	*J3 ...	.....	42-5Com.....	.....	.....	.....	.....
COLD Hexagon	*J-2 ...	.....	.....	42Com.....	A3, AR4..	W240T3 .	.....	.....

FOR BETTER SERVICE

HOT 14 m/m $\frac{1}{8}$ " Thread Length	*H-11	*HT10J		45L, 45LCom.	ARL8	W125T1	FA50	CS14
	H-10	*H10J		43LCom	AL7	W175T1		
COLD Hexagon	H-9			43L	ARLS	W200T1		
	*H-8				ALS	W225T1		
HOT 14 m/m	L-8		XL10	F10	AE6	W125T1	F50	B14
	L-10					W175T1	F80, F70	CN, C14
COLD	L-10S					W225T1	F100	H14, H14S, HN
	†LA10					W240T1		H14, H14S
HOT 14 m/m	L11S					W275T1		HHN, HNP, 3HN
	†LA11					W275T	646, F280	R47
COLD	†LA14					W370T9	689, F290	R49
	†LA15					W400T9	731, 875, F300, F320, F340	R51, R53
HOT 14 m/m	N-7		XN8B	FL9	AE10	W95T2	FE20	BL14
	N8B					W145T2	FE50	CLN, CL14, CB14
COLD	NAB			45XL		W225T2	FE70-80	HLN, HLNP
	†NA10					W270T2	FE100	HL14
HOT 14 m/m	†NA12					1320	FE280, 646LR	RL47, 3HLN
	†NA14					1425	731LR, FE300	RL49
COLD	†NA18					1450		RL51
	†NA19					1500	875LR, FE320	RL53

CHAMPION COMPARISON CHART

22 Sparking Plug Comparison Chart—Continued.

Size	CHAMPION					A.C.	AUTOLITE	BOSCH	K.L.G.	LODGE
	Type	Two-Cycle Engines	Superpressor Types							
HOT 18 m/m $\frac{3}{8}$ " Thread Length	7ComL 9Com			85LCom	B11	M30T M35T1	ML30 TML50	CL3, CB3 CY.L		
HOT | COLD	*C-7 8Com 7 7Com *6Com *5Com †R-3 †R-7 †R-1 †R-11 †R-2		X7	87Cam, 87 86Com, 86 85, 84 84Com 83Com 82Com	BR10 BT6, BR8 B7 B5, BR4 B3 B, B3	M45T1 M95T1 M145T1 M145T1 M175T1 M190T1 DM250T3 †330 †395 †450 †500	M30 M50, TMB50 M50, TMB50 M80	BBL C3, C1 C3, C1 H3		
HOT 18 m/m $\frac{3}{8}$ " Hexagon | COLD	15 16 17			86, 85SCom 82, 81SCom 83SCom, 82SCom	BHB, BT10, B9 BT3 BT4	M145T5 DM250T3 M225T1	SM30, SM50 M100 M80	SC3, SC HIP, H1 H3		

Hessel- man	*DL8C D-8 ..	.....	.....	.....	.....	.....	M20T1 M20T1 ..	TML30	CK.X
HOT 22 m/m	*3Com 20.....	.....	14.....	.....	.....	.....	Z30T2 ..	.....	ST
1 1/8" Thread	*2Com	.....	78LCom .....	.....	T11, TT10,	.....	Z45T1 ..	.....	.....
	*C-4, C-5	.....	78LCom .....	.....	T9 .....	.....	Z95T2 ..	.....	CT
COLD Hexagon	1Com	.....	78S, 76Com..	.....	TT8, T7, T5	.....	Z45T1 ..	A10 .....	.....
	*0Com	.....	74, 74Com75Com	.....	TT4, TH8.	.....	Z120T1 ..	A20	CV.T
*00Com	.....	.....	73Com .....	.....	.....	.....	Z145T1 ..	TAB60 .....	.....
3/4" Pipe	*31.....	.....	26.....	.....	F11.....	.....	Z10T1	G20	AF

* = Obtainable from Toledo. † = Racing types. ‡ = Heat value.

Champion's "Heat Range" Charts should be followed in cases where slower driving or lower octane petrol make it necessary to use hotter type Champion Sparking Plugs. See Heat Range Chart on page 24.

OPERATING RANGE

HEAT RANGE

Champion Plugs are graduated according to their ability to transfer heat from the firing end to the cooling water or air.

COLD PLUG

Low insulator seat, dissipates heat from the insulator and makes a cold plug—for hot engines (see left).

HOT PLUG

High insulator seat, allows insulator to retain the maximum amount of heat making a hot plug for use in cold and oily engines—(see right)



" CHAMPION " HEAT RANGE CHART

HOT PLUG for COLD ENGINE. COLD PLUG for HOT ENGINE

	18 mm. S.A.E. † ½" reach	14 mm. ‡ ¾" reach	14 mm. ‡ ½" reach	14 mm. ‡ ¾" reach	10 mm.
RACING AND SPORTS TYPES					
	R-2		LA-15	NA-19	
	RJ-11			NA-14	
	R-11		LA-14		
	R-1		LA-11	NA-12	
	R-7		L-11S	NA-10	
STANDARD TYPES					
	16	J-6	L-10S	NA-8	
0-Com	17				
I-Com	7 7-Com †7-ComL	J-8	L-10 *H-10	N-8B	Y-6
C-5 20	8-Com 15 11-Com	J-12	L-8	N-7	

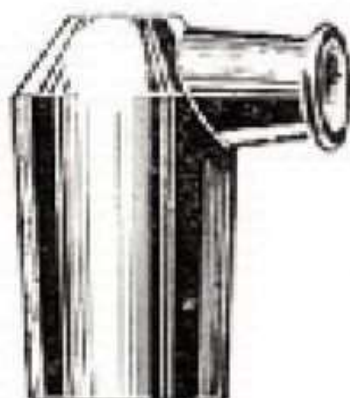
† ½" Reach

* ¾" Reach

Should plugs normally used show a tendency to oil up, fit the next hotter or "softer" type shown in Heat Range Chart. In the event of the normal plug overheating, fit the next colder or "harder" type.

CHAMPION ACCESSORIES

CHAMPION WATERPROOF COVER



Gives complete plug protection by shielding entire insulator. Fits over A 548 post terminal.

Model W/C/548 (Push-on Type) with A 548 Terminal.

Each 1/6

CHAMPION TERMINALS



H.T.



A 146



AB 146



WL 548

WLB 548

(2 BA)



A 548

AB 548

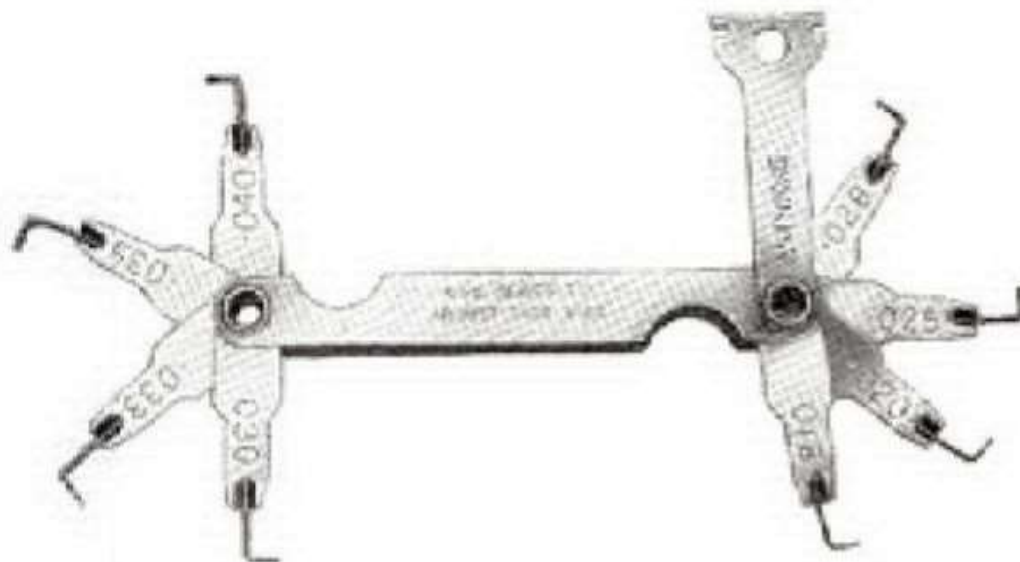
(2 BA)

Type	Fitted on		
A 146 ...	All standard type plugs	... doz.	1/6
AB 146 ...	2 B.A. for C.V. plugs	... doz.	1/6
A 548 ...	Austin, Ford, Standard, Humber, Hillman, Rover, Riley, M.G., Wolseley, Buick, Chrysler, Vauxhall, Morris, Dodge, Reo, Daimler, Lanchester, Bedford, Studebaker, Packard, Hudson	... .. doz.	1/6
A 446	Fitted on C5		
AB 548	Ford (18 mm.)	... .. doz.	1/6
WL 548	Morris Commercial (7 Com.), Rover, Land Rover.		
WLB 548	Morris Commercial (7 Com.L).		
H.T.C. (H.T. Connector)	Morris (from 1938), Wolseley, M.G. (from 1936), Riley (from 1939)	... each	8d.

GAP SETTINGS

GAP GAUGE AND ADJUSTER

Each ... 2/-



Embodies feeler gauges for :—

.018 in.	.022 in.	.025 in.	.028 in.
.030 in.	.033 in.	.035 in.	.040 in.

NORMAL SPARKING PLUG GAP SETTINGS

Coil	... ..	.022/.025 in.	0.6 mm.
Coil (High Voltage)		.028/.032 in.	0.8 mm.
Motor Cycles (Magneto)	... ..	.018 in.	0.5 mm.

Please consult Vehicle Manufacturers'
Handbooks

RECOMMENDATIONS

PASSENGER CARS

A.C. to 1939 .....16	Armstrong Siddeley
1948 onwards 2 litre...L-10	Pre-1935.....7 Com.-L
1954 Ace Sports.....L-105	1935 14 h.p.....J-8
1953-54 Petite	1936-1939 All models..L-10
(3-wheeler) .....16	1946-1949 16 h.p.....L-10
Adler	1949-1953 18 h.p.....N-8B
Primus I, 5 A.....8 Com.	1953 on Sapphire.....N-8B
Triumf I, 5 AV;	-018" if no vacuum con-
I, 7 AV.....8 Com.	trol on distributor.
Diplomat 3 G, 3 Gd 8 Com.	Aston Martin
Triumf Junior I G, I E...J-8	1936-37 Speed Model...R-1
Triumf 2 EV.....J-8	1938 Standard .....R-7
Triumf I, 7 EV.....L-105	1938 Speed Model.....R-1
Type 10 (2.5 litre)...L-105	1939 Standard .....R-7
Sport 1.7 litre.....L-105	1939-40 "C" Model...R-1
W 61 .....L-105	1948 .....L-105
Aero Minor 2 cyl......L-10	Austin All models 1930-
A.F.N. 2 litre.....L-105	1935 .....7
Alfa Romeo 6 cyl. 2300	1936-1937 7 and 12 h.p.
and 2500 c.c. Stan-	L-10
dard Sports Model R-16	1937-1938 20 h.p.....7
6 cyl. 2500 c.c. Super	1937-1940 Other models
Sports model .....R-17	L-10
6 cyl. old model, 1500	1946-1948 B, 10 and
and 1750 c.c.....R-3	12 h.p. ....L-10
8 cyl. 2900...R-16 or R-17	16 h.p., PXV Taxis, A-40,
"1900" .....NA-8	A-70, Princess, Sheer-
Alfetta Grand Prix...NA-19	line .....N-8B
Allard	A-60 Sports, A-90, A-30
Ford V.8 Standard	(7 h.p.) .....NA-8
engine .....7	Normal Coil -018"
K2, K3, J2, J2X—V.8,	H.V. Coil -025"
Alum. Head.....L-105	Auto-Union.....17
J2, J2X—with Ardun	Bentley, 3, 4½, 6 and 8
O.H.V. Head .....R-7	litre 1930-1933 .....17
Palm Beach, 21C and	3½ and 4½ litre Up to
21Z .....N-8B	1940 .....LB-8
Alvis Crested Eagle.....16	1946 onwards .....N-8B
1937-1940 All other	Except 1954 Con-
models .....L-10	tinental .....NA-8
1939-1940 Speed 25...L-105	Benz.....7
1946 on All models...L-10	Touring .....17
Amilcar 1935-1937	Sport .....R-3
Pegase N7 and 5C.....17	Berliet 18 mm.....7
1935-1937 Pegase G36..L-10	14 mm.....J-8
G5-G36 2 carb.....LA-10	Bianchi .....17
1938-1939 B38.....L-10	

RECOMMENDATIONS

Passenger Cars—continued

B.M.W. Dixi 1928 (0.75 Ltr.)	8 Com.
Dixi 1930 (0.78 Ltr.); 309	7 Com.
315; 319; 326; 329	17
320; 325; 326 A; 327 L-105	
90 FS (3.5 Ltr.)	L-105
328	L-115
321/1; 326/1	L-105
Bond Minicar	L-115
British Salmson	16
B.S.A. 18 mm.	7
14 mm.	L-10
Bugatti, 40-40A	17
44-46-49	17
465	17
41 Royal	8 Com.
43-50-55	R-1
57-57S 18 mm.	R-1
57-57S 14 mm.	LA-10
Racing 18 mm.	R-11
Racing 14 mm.	NA-12
Autorails	17
Buick 1927 to 1937	15
1941 10 mm.	Y-6
1938-1952	J-12
1953-1954 V.8.	J-8
1953 Straight 8.	J-12
Cadillac	
1936 to 1938 8 cyl.	J-12
1936-1937 12 and 16 cyl.	7
1938 16 cyl.	J-8
1939-1948	Y-6
1949-1954	J-12
Chenard & Walcker	
Aigle 18, 20, T.22, T.24 and Super A.24	L-10
Aigle 8, U.16, U.17	7
11 h.p. 1937 F22, 1938 F23	J-8
Chevrolet	
1933 to 1936	J-12
1937 to 1940	J-8
1941 onwards	Y-6
1949-1952	J-12
1953-1954	J-8
Chrysler 1931-1942	J-12
H.C. alum. heads.	H-10
1946-1954 6 cyl.	J-8

Chrysler—continued

1946-1953 8 cyl.	J-8
1954 V.8.	N-8B
Cisitalia	
1100 c.c. Standard Model	J-6 or J-10 Com.
Sports	NA-12
Citroen (Britain)	
1936-1940	J-8
1936-1940 Sports	L-10
1945 onwards All models	H-10
Citroen (France)	
5 h.p., B2, B12, B14, C4, C6	8 Com.
8-10-15 h.p.	7
7-9-11 h.p., 15 h.p. 6 cyl.	J-8
9 h.p. economique	J-8
7-9-11 h.p. sport	L-10
Taxis Traction AR	7
Taxis Traction AV	J-8
15 h.p., 1950	H-10
2 h.p.	J-6 or J-10 Com.
Continental	7
Crossley	17
Daimler 31.4 h.p.; 35h.p. 6 cyl. and double six 50 h.p.	15
15 h.p.	J-8
1934-1935 All models	L-10
1936-1954 All models	N-8B
except	
1945-1954 Straight 8	N-8B
Daimler-Benz (Mercedes-Benz) 170 H (M 28); 170 V 1936	8 Com.
170 V (M 136) 1938	8 Com.
170 V to 1942	J-8
170 S	L-105
1.3 Ltr. (M 23)	7 Com.
1.7 Ltr. (M 15)	7 Com.
2 Ltr. (M 21); 2.9 Ltr. (M 18)	7 Com.
500 K; 770 (M 150)	17
W 152 (M 149)	J-8
230 (M 143)	J-8
230 (M 153); 320 (M 142)	J-8
500 (M 06)	J-8
540 K (M 29)	J-8
220, 300, 300S	L-105

RECOMMENDATIONS

Passenger Cars—continued

De Dion Bouton 18 mm....7	
14 mm.....J-8	
Delage 18 mm.....17	
14 mm.....L-10	
Delahaye 132, 134, 138, 148, 135S and 148L...17	
135S Special A.C.F....LA-10	
135 Competition .....16	
135, MS.....L-10	
165, 12 cyl. 5P.....NA-10	
Selborne.....L-10	
Delaunay Belleville	
18 mm. ....7	
14 mm.....J-8	
Dellow Ford 10 h.p.	
engine Mk. I.....L-10	
Supercharged Mk. I...L-10S	
1951-1953 Mk. II and Mk. III.....L-10	
1951-1953 Mk. II and Mk. III Supercharged L-10S	
1953 Mk. IIIC.....N-8B	
Mk. IIC .....L-10	
Mk. IIC Supercharged L-10S	
De Soto All models.....J-8	
D.K.W. ....17	
Dodge All models.....J-8	
Essex—see Terraplanes.	
Ferrari Type America	
(4100 c.c.)—type 212	
Inter (2560 c.c.)...NA-10	
Type Export Mille Miglia (2560 c.c.).....NA-12	
Race Type 2000 c.c.- 4500 c.c.....NA-14	
Fiat (England) 509.....7	
508 Balilla, 518 Ardita...J-8	
Simca 1936.....L-10	
10/12, 12, 1500 and 25...J-8	
500 c.c. 1100 E.....J-8	
Fiat (Italy) Balilla and Ardita Sports.....J-8	
520, 521, 522, 524, 525, 503, 509, 514, 515.....7	
1400 Models .....J-8	
Ford (England)	
Model T.....A-25	
$\frac{1}{2}$ " thread S.A.E.....C-5	

Ford (England)—continued	
8 h.p. to 1934, 18 mm....7	
8, 10 and 22 h.p., 14 mm, L-10	
V8, 30 h.p. 18 mm.....7	
Consul, Zephyr, Zodiac N-8B	
1953 on Popular, Anglia, Prefect .....L-10	
Frazer .....J-8	
Frazer Nash 12 h.p.	
4 cyl.....7	
Sports .....R-1	
Byfleet ....J-6 or J-10 Com.	
Boulogne II, Shelsley...R-11	
B.M.W. 18 mm.....16	
B.M.W. 14 mm.....L-10S	
B.M.W. Sports 18 mm, R-11	
B.M.W. Sports 14 mm, L-11S	
Goliath 14 mm.....L-10S	
18 mm.....17	
Graham Pre-1937.....7	
1937 to 1939.....L-10	
1940-1941 J-6 or J-10 Com.	
Healey 2½ litre.....NA-8	
Austin Hundred.....NA-8	
3 litre.....L-10	
Nash-Healey .....L-10S	
Hillman 1933-1935.....17	
Minx 18 mm.....7	
1936-1938 Minx.....L-10	
1939 on.....L-10	
Hispano Suiza.....7	
Hortsman .....7	
Hotchkiss up to 1933.....7	
411-413-615-620 .....17	
480-486-680-686.....17	
PN and GS.....17	
864 .....L-10	
H.R.G. 1936-1939 1½ L.	
Meadows Eng. R-1 or R-11	
"1100" Sports "1500" L-10S	
Hudson 1938-1951	
C.I. heads.....J-8	
Al. heads.....H-10	
1952 on.....H-10	

RECOMMENDATIONS

Passenger Cars—continued

Humber 1933-1935	17
1936-1945	L-10
Hawk Phase 1-3.....	L-10
Snipe Phase 1-3.....	L-10
Pullman Phase 1-3.....	L-10
Hawk Phase 4 and 5..	N-8B
Snipe Phase 4.....	N-8B
Pullman Phase 4.....	N-8B
Hupmobile 1938 to 1941 ...	7
Imperia 18 mm	17
14 mm.	H-10
Invicta 18 mm	7
Isotta Fraschini	7
Itala	7
Jaguar to 1940	L-10
1946-48 1½ L. and 3½ L.	L-10
1946-48 2½ L. Eng.	
Nos. P.1-P.200.....	L-10
1949-50 Mk. V 3½ L....	L-10
1946-48 2½ L. Eng.	
Nos. P.201 on.....	N-8B
1949-50 Mk. V 2½ L....	N-8B
1950 on XK 120.	
8: 1, C.R.....	N-8B
7: 1, C.R.....	L-10S
1951 on Mk VII.	
8: 1, C.R.....	N-8B
7: 1, C.R.....	L-10S
XK 120C.NA-10 or NA-12	
Jensen 2½ litre	L-10
3½ litre.....	16
3½ litre Supercharged...	R-7
1938-1940	L-10
14 mm.....	L-10S
4 litre 14 mm. Short	
Reach	L-10S
4 litre Interceptor...	N-8B
1954 Model 541.....	N-8B
Jowett 18 mm	7
Javelin Mk. 1 and 2.....	L-10
Jupiter Mk. 1.....	L-10S
Javelin Mk. 3.....	XL-10
Jupiter Mk. 1A.....	XL-10
R.4	XL-10
Kaiser	J-8
Lagonda 1936-1940 4½ litre	
R-1	R-1
V-12	L-10S

Lanchester 1933-1934	
10 h.p.....	J-8
1935 All models.....	L-10
1937 11 h.p. and Road-	
rider	L-10
1936-1940, 10 h.p., 14 h.p.	
and 18 h.p.....	N-8B
1945-1951 10 h.p....	N-8B
1951-1954 14 h.p....	N-8B
Lancia (France) All models	J-8
Lancia (Italy) Lambda and	
Dilambda	7
Sports.....	17
High Compression.....	R-3
Augusta	J-8
Sports	LA-11
Artena, Astura 1st and	
2nd Series	17
3rd Series	H-10
Belna; Aprilia; Ardea...	J-8
Sports	L-10
1950 on Aurelia B-10 NA-8	
1951 on Aurelia B20,	
B21, B22.....	NA-10
Appia	NA-8
La Salle 1935 to 1938 ...	J-12
1939 to 1940.....	Y-6
Lea Francis to 1934	17
1937, 1940.....	L-10
1946 onwards.....	L-10S
Lincoln	
1946-47 V.8 and V-12..	H-10
1946-47 6 cyl.....	H-10
1948-51 All models....	H-10
1952 6 cyl.....	H-10
1952 V.8.....	H-10
1953-54 All models...	H-10
Lloyd	N-8B
L.S.D. Air cooled	17
Water cooled	7
Matford—see Ford.	
Mathis	7
Emyhuit	17
14 mm.....	J-8
Mercedes 18 mm	17
14 mm.	L-10
Mercury	
1939-1948	H-10
1948-1953	H-10
M.G. L Type Magna	
J-6 or J-10 Com.	
Midget to 1933.....	7

RECOMMENDATIONS

Passenger Cars—continued

M.G.—continued

Sports.....	17
1934 J.1 and J.2 models, J.3 and J.4 super- charged, Magnette K, models J-6 or J-10 Com.	
1935-1940	L-10
1939-1940 2-6 litre...	L-10S
1946 on TC, Y and TD to Eng. No. 22734...	L-10S
TD from Eng. No. 22735	NA-8
TF	NA-8
TD Mk. II to Eng. No. 17028	L-11S
TD Mk. II Eng. No. 17029 on.....	NA-10
YB	N-8B
1954 Magnette.....	N-8B
Minerva	7
Minor	J-8
Morgan to 1935	17
1936, 1939 All models..	L-10
1946 (Ford engine)....	L-10
1946 on (Standard engine)	N-8B
Vanguard engine.....	L-10
Morris Six to 1932	7
Minor O.H.V.....	7
1933 Minor S.V. Ten, Cowley and Isis.....	7
1933 Major and Oxford...	7
1934 All models.....	7
1935 8 h.p. and 10/6.....	J-8
1935 Other models.....	7
8 h.p. Series I.....	L-10
All series 2, 3, E and M..	L-10
Minor (S.V. Series MM)	L-10
Minor (O.H.V. Series II, A30)	NA-8
Oxford (Series MO)....	L-10
Six (Series MS).....	L-10
Nash 1937-1942	J-12
1946 on.....	J-8
Oldsmobile 1937-1950	
6 cyl.	J-12
1937 on 8 cyl.....	J-12

O.M. Standard	7
Sports	R-3
Carriage military.....	17
Opel 1933-1935 1 L.300 and 6 cyl.....	7
P 4 Cadette 1 L.100... } J-8	
Super 6, 2 L.500.....	
Admiral	L-10
Other types.....	8 Com.
Overland 1939	J-12
Packard 1937-1950	Y-6
1951 on.....	J-8
Panhard & Levassor	
14 and 23 h.p. Model 130-1940.....	8 Com.
16 and 27 h.p. Ml. 160...	17
3 h.p. "Dyna".....	L-10
Panhard 1952 Dyna 110, 120, 130.....	L-10S
Peugeot 190S and 172R ...	17
All other models to 1933..	7
201-301-401-601, 18 mm..	17
201-301-401-601, 14 mm.	H-10
202-302-402, 402L, 402B, 402BL	H-10
Taxis, 18 mm.....	17
Taxis, 14 mm.....	H-10
203	H-10
Plymouth 1932-1942 ...	J-12
H.C. alum. heads.....	H-10
1946 on.....	J-8
Pontiac 1932 to 1942 ...	J-12
1946 on.....	J-8
Porsche	L-11S
Praga 18 mm	7
14 mm.....	L-10
Railton Terraplane to	
1936	J-6 or J-10 Com.
1937-1940 All models..	L-10
Raleigh	7
Reliant Coupe	L-10
Renault (England) 18 mm ...	7
14 mm.....	L-10
"750"	L-10
2 litre	L-10S
Renault (France) KZ1 and KZ10, 6 h.p. Mona to 1932....	8 Com.
Mona 1933-1935.....	17
Primz, Viva and Celta..	17
Nerva to 1935.....	17

RECOMMENDATIONS

Passenger Cars—continued

Renault (France)—continued

Models 85 aluminium head Prima, Viva, Nerva, Novaquatre, Juxtaquatre, Suprastella and Prime sportH-10
 Taxis, 18 mm.....8 Com.
 Taxis, 14 mm.....H-10
 4 h.p.H-10
 4 h.p. competition.....L-10
 Prairie-SavaneH-10

Reo 1936.....H-10

Riley 1935-1936.....16

1935-1938 9 h.p.....16

1936-1937-1939 1½ litre,

15 and 16 h.p.....L-10

Sprite J-6 or J-10 Com. 1939-

1940 12 and 16 h.p. L-10S

1946 onwards 1½ litre L-10S

1946 onwards 2½ litre NA-8

Rolls Royce to 1935.....7

1935-1945LB-8

Silver Wraith.....N-8B

Phantom III.....N-8B

Silver Dawn.....N-8B

Rosengart 18 mm.....7

1937-1938 and alum.

headsL-10

1939 LR 539.....J-8

Rover 1934, 1935 10, 12

and 14 h.p.....J-8

1936-1938L-10

Sports 12, Speed 14

J-6 or J-10 Com.

20 h.p.....17

Speed 20.....16

1939-1940 12 h.p....N-8B

1946-1947, 10 h.p.,

12 h.p. and 16 h.p..N-8B

Models 60 and 75 to

1954N-8B★

1954 Models 60, 75 and

90N-8B★

★WL548 terminal re-

quired.

RovinH-10

S.A.A.B. (Sweden) 1950

models J-6 or J-10 Com.

1951 models.....L-10

Salmson S4.....7

S4C, S4D, S4DA.....17

S4E, 72.....L-10

Siata Amica, Daina.....J-8

S.I.M.C.A.—see Fiat.

Singer 1933 9 and 14 h.p..J-8

12 h.p. and Silent Six.....7

1934 Touring.....J-8

1936-1939L-10

Sports... J-6 or J-10 Com.

Le Mans.....LA-11

1939 on.....L-10S

1500 model 1948 on...N-8B

1500 model Twin Carb.

NA-8

S.S. Series I and II.....17

Series "100"L-10S

Standard 1933, 1934, 1935,

9, 10, 12 and 14 h.p....J-8

1933, 1934, 1935, 16 and

20 h.p.....17

1936-1937-1938 All

models.L-10

1939-1940, 8, 10 and

12 h.p.....N-8B

1939-1940, 14 and 20 h.p.

L-10

1945-1948 8 h.p.....N-8B

1946-1947 12 h.p. and

14 h.p.N-8B

1948 on Vanguard.....L-10

1953 on "Eight".....N-8B

Steyr 18 mm.....7

14 mm.....L-10

Studebaker 1933-1940....15

1941 Champion.....J-8

1941 Commodore and

President15

1942-1950J-8

1951 on 6 cyl.....J-8

1951 on 8 cyl.....H-10

Sunbeam to 1935.....17

Sunbeam-Talbot

All models to 1940....L-10

1946 on 2 litres.....L-10

1946 on 10 h.p.....N-8B

80, 90 and Alpine.....NA-8

Talbot Lago sp. 4 l. 18 mm.

16

Lago and 4 l. 1½ 14 mm.

L-10

All other models.....17

RECOMMENDATIONS

Passenger Cars—continued

Talbot Darracq.....	17
Tatra 18 mm.....	7
14 mm, 8 cyl.....	L-10
Tatraplan 4 cyl.....	L-10
Terraplane (reg. heads)..	J-8
J.C. alum. heads.....	L-10
Triumph	
1934-1936	} 16
Vitesse 4 and 6 cyl.....	
1937-1938 All models..	L-10
Model 1800.....	L-10
Model 2000.....	L-10
Sports	L-10S
Renown	L-10
Mayflower	N-8B
Trojan 18 mm.....	7
14 mm.....	L-10
Vauxhall to 1933.....	7
to 1946.....	J-12
1946 on All models.....	J-8

Volkswagen All models	L-10S
Volvo EB and DC.....	7
EC	L-10
B4B	Y-6
ED	J-8
Willys 1939.....	7
1940-1941	J-12
H.C. alum. heads.....	H-10
1942 on.....	J-8
Wolseley to 1933.....	7
1933 Hornet Special.....	17
1934 Hornet	
J-6 or J-10 Com.	
1934 16 and 21 h.p.	7
1935 9 h.p., 10 h.p.....	L-10
1935 12-6, 14 and 18 h.p.	
17	
1940-1952 All models..	L-10
1953 on 6/80.....	L-10
1953 on 4/44.....	N-8B

COMMERCIAL VEHICLES

Adler	7 Com.
A.E.C.	11 Com.
"Q" type	9 Com.L
Albion	
FT3 6 cyl.....	} 7
FT7 4 cyl.....	
EN248	11 Com.
EN256	11 Com.
EN257A and EN257C...	16
EN271, EN272 requiring	
18 mm.....	7
EN275, EN277 requiring	
14 mm,	L-10
18 mm. Long-Reach models	
.....	7 Com.-L
Aries	17
Austin	
18 mm.....	7
14 mm. (10-cwt. Van)	
to 1946	L-10
30 cwt., 2 ton and 5 ton	
truck	N-8B
A40 Van, 10 cwt.....	N-8B

Bean.....	7
Beardmore	7
Bedford	
18 mm.	7
To 1946	J-12
1946 on.....	J-8
Berliet	17
Light Trucks.....	J-8
Gazogene 14 h.p.....	L-10
Bernard	
E6 and E852.....	8 Com.
Light commercial.....	J-8
Other models	0-Com.
Burford	22 or 20
Caledon	11 Com.
Chevrolet	
1933-36	J-12
1937-40	J-8
1941-48	Y-6
1949 on 10 cwt.....	J-12
1949 on Other models...	J-8
Citroen, 1932-33-34	8 Com.
1935-37-P32-36-38-39-45	7
500 and 850 kg. P23.....	J-8

RECOMMENDATIONS

Commercial Vehicles— continued

Citroen—continued	
Autocars 18 mm.....	7
Autocars 14 mm.....	H-10
Clyde	11 Com.
Clydesdale	
30-HO, 50-HO	D-8
18 mm.	8 Com.
$\frac{3}{8}$ "	1 Com.
Commer 18 mm. to 1938...7	
1939-54 All models except	
8-10 cwt. and 25 cwt.	
Van.	N-8B
8-10 cwt.....	L-10
25 cwt., $\frac{1}{2}$ " reach...L-10	
25 cwt., $\frac{3}{4}$ " reach...N-8B	
Crossley	11 Com.
Daimler	11 Com.
Delahaye	17
Dennis 4 cyl.....	7 Com.-L
6 cyl.....	11 Com.
D.K.W.	
Lieferwagen (0-6 u.	
0-7 Ltr.)	17
Schnellaster	17
Dodge $\frac{3}{8}$ " heads.....	1 Com.
18 mm. heads.....	8 Com.
14 mm. heads to 1949	
.....	J-6 or J-10 Com.
1949 on 10 cwt., 15 cwt.	
and 20 cwt.....	J-8
1949 on 2 ton and over	
.....	J-6 or J-10 Com.
V8 (VT348-350)	NA-8
V8 (VT334-346)	
.....	J-6 or J-10 Com.
Fageol All 18 mm...8 Com.	
$\frac{3}{8}$ "	1 Com.
Freighter J-6 or J-10 Com.	
Fargo 18 mm.....	8 Com.
$\frac{3}{8}$ "	1 Com.
T2C, T2E	} J-12
T3E, T3G.....	
Other 14 mm. Alum. heads	
.....	J-6 or J-10 Com.
Other 14 mm. C.I. heads	
.....	J-8
Federal $\frac{3}{8}$ " heads using	
Cont. B-7	1 Com.
Other $\frac{3}{8}$ " heads to 1949	
.....	0 Com.

Federal—continued

18 mm. using Cont. R5602	
.....	17
18 mm. using Cont. 16R	
.....	8 Com.
Using Cont. 22R to 1949	
.....	7 Com.
14 mm...J-6 or J-10 Com.	
Fiat 14 mm.....	J-8
Other models.....	7
Ford and Fordson	
$\frac{1}{2}$ " thread.....	C-5
18 mm. thread.....	7
14 mm. thread $\frac{1}{2}$ " Reach	
.....	L-10
Cost-cutter $\frac{3}{8}$ " Reach N-8B	
Garner	11 Com.
Gilford $\frac{3}{8}$ "	C-5
18 mm.....	11 Com.
Guy 18 mm.....	11 Com.
14 mm.....	N-8B
Halley	11 Com.
Hallford	7 Com.
Hesselman	D-8
Hudson 15 cwt.....	J-8
International	
$\frac{3}{8}$ "	0 Com.
18 mm.	15
14 mm. ...J-6 or J-10 Com.	
Jensen Jen Tug.....	N-8B
Jowett 18 mm.....	7
14 mm. (Bradford).....	L-10
Karrier 18 mm. Cob.....	7
14 mm. Colt.....	L-10
Bantam CK3 Gamecock	
and Loadmaster ...	N-8B
Laffly	8 Com.
Lancia	11 Com.
Latil	11 Com.
Long reach.....	7 Com.-L
14 mm.....	L-10
Leyland	11 Com.
Long reach.....	7 Com.-L
1945 on Comet.....	N-8B
Liberty	1 Com.
Lister Auto Trucks 8 Com.	
Manchester $\frac{3}{8}$ ".....	22 or 20
18 mm.....	11 Com.
Maudslay	11 Com.
2-3 ton 1945 on.....	J-8

RECOMMENDATIONS

Commercial Vehicles— continued

Mercedes.....	17
Minerva	17
Morris Commercial	
15 and 20 cwt. to 1938...	7
15 and 20 cwt., from 1939	N-8B
25 cwt., 1940 L.C. and P.V.	L-10
30 cwt., 4 cyl.....	7 Com.-L
30 cwt., 6 cyl.....	7 Com.-L
2 ton, 4 cyl.....	7 Com.-L
2 ton, 6 cyl.....	7 Com.-L
3 ton, 6 cyl.....	7 Com.-L
5 ton, 4 cyl.....	7 Com.-L
5 ton, 6 cyl.....	7 Com.-L
5 ton Truck F.E.R....	N-8B
SEA and LEA engines short reach.....	L-10
SEA and LEA engines long reach	N-8B
Morris Vans	
14 mm. short reach, J and Z.....	L-10
1953 on O.H.V. 5 cwt.	NA-8
18 mm.	7
Multiwheeler	11 Com.
Opel	
1.3 litre 4 cyl.....	8 Com.
Blitz 2 litre; 3.5 litre	8 Com.
1.1 litre 4 cyl.; 1.5 litre 1 ton.....	J-8
Blitz 2.5 litre.....	J-8
Blitz 3.6 litre.....	L-10S
3.6 litre 6 cyl.....	L-10S
3 ton A and S 3.6 litre	L-10S
30 cwt., 35 cwt.....	J-8
3.6 litre.....	L-10S
Pagefield	11 Com.
Panhard-Levassor	
18 mm.	8 Com.
14 mm.....	J-8
Gazogenes 18 mm.	17
14 mm.....	H-10
Peugeot 18 mm.....	7
14 mm.....	J-8
Reliant	L-10
Renault	15
Culbuteurs.....	17

Renault—continued	
Gazogenes.....	17
Autocars.....	17
Autocars 14 mm.....	H-10
1953.....	L-10
Rollifx	17
Rover	
Land Rover to 1954 ..	N-8B
1954 Land Rover Models 86 and 107.....	N-8B
WVL548 terminals re- quired.	
S. & D. Freighter ...11 Com.	
1949 on.....	7 Com.-L
Saurer	7 Com.
B.L., B.W., C.R....	11 Com.
Scammell	
18 mm.	11 Com.
14 mm.	N-8B
Mechanical Horse 7 Com.	
Scarab	7 Com.
Singer 18 mm.....	7
14 mm.	L-10
Somua	7
(Hesselman Engine)...	D-8
Standard	
Vanguard	L-10
Stirling	
14 mm. ...	J-6 or J-10 Com.
7"	1 Com.
18 mm.	7 Com.
Stewart 7"	1 Com.
18 mm.	8 Com.
Studebaker	
1937 to 1940 7".....	1 Com.
1933 to 1941 18 mm.	8 Com.
1941 on 14 mm.....	J-8
Sunbeam Talbot (Ambu- lances) 18 mm.....	17
14 mm.....	L-10
Thornycroft	7 Com.
Long reach.....	7 Com.-L
Tilling Stevens (T.S.M.)	11 Com.
Triangel (Hercules en- gine)	0 Com.
Trojan 18 mm.	8 Com.
15 cwt. 65 and 68.....	L-10S
Other models 14 mm.	L-10
Unic, Old models	7
533, 545 with motor M15	J-8

RECOMMENDATIONS

Commercial Vehicles— continued

Unic—continued

1,200-1,800-2,500 kg.	
M16	J-8
1938, L24, L25, L26	J-8
Gazogenes	L-10
Volvo 14 mm.	J-12
18 mm.	17
ED	J-8
Models FC, FE, 18 mm.	7

Vulcan	11 Com
White $\frac{3}{4}$ "	1 Com.
18 mm. Standard Hex.	
	7 Com.
18 mm. Small Hex.	15
14 mm.	J-6 or J-10 Com.
Willys to 1939.	8 Com.
1940 on	J-8

MOTOR CYCLES

Ace	7
A.J.S. S.V. models 18 mm.	7
S.V. models 14 mm.	L-10
O.H.V. models 18 mm.	16
1946 350 c.c.	L-10
1946 500 c.c.	L-105
1947-1949 All models	
Cast iron heads	L-105
1950 onwards All models	
Alloy heads	NA-8
Except O.H.C. 7R.	NA-14
Alcyon S.V.	15
O.H.V. 18 mm.	17
14 mm.	L-10
Ambassador 197 c.c.	
Villiers Mark VI	L-115
500 c.c. Twin	L-105
Supreme, Embassy and	
Popular	L-115
Ariel O.H.V. models	
18 mm.	16
S.V. models 18 mm.	7
S.V. models 14 mm.	L-10
Square 4 Cast iron and	
Mk. I Alloy	L-105
Square 4 Mk. II Alloy	NA-8
O.H.V. models Cast	
iron 14 mm.	L-105
O.H.V. models Alloy	
head	NA-8
Magneto to .018"	
Coil .022"	
Automoto 125 c.c.	J-8
Sport	L-10
Benelli Models 250 and	
500 c.c.	17

Benson 125 c.c.	8 Com.
Bernadet	H-10
Bianchi 125 and 250 c.c.	J-8
250 c.c. Sports model	J-6 or J-10 Com.
500 c.c.	17
Blackburne Engines	
S.V. models	7
O.H.V. models 14 mm.	L-105
O.H.V. models 18 mm.	16
B.M.W.	
R17; R57; R63	7 Com.
R4; R11; R16	17
R2; R3; R6; R12; R20	J-6 or J-10 Com.
R23; R35; R36; R37	J-6 or J-10 Com.
R61; R71; R75	J-6 or J-10 Com.
Bown	
122 c.c. Villiers	L-105
Brockhouse	
Indian Brave	NA-8
Brough Superior	
S.S.100 from 1934	N-8B
Other 14 mm. models	L-105
S.V. models	7
B.S.A.	
All S.V. models 18 mm.	7
125 c.c. D1 Bantam to	
1954, Cast iron heads	
C10, M20, M21	L-10
C10, C10L, M20, M21,	
Alloy heads	N-8B

RECOMMENDATIONS

Motor Cycles—continued

B.S.A.—continued

1954 125 c.c. D1 Bantam and 150 c.c. D3 Bantam Major	L-105
C11, B31, B33, M33, A7, A10, "Gold Flash, B32 and B34 Cast iron heads, A7, Star Twin to 1954	L-105
1954 A7 Star Twin A10 Super Flash Twin...	L-115
Gold Star B32 and B34 Alloy	NA-8
Gold Star Racer.....	NA-14
Gold Star Scrambles	NA-10 or NA-12
Cleveland	7
Commander	
98 c.c. Villiers.....	L-105
122 c.c. Villiers.....	L-105
Cotton	
S.V.	7
O.H.V. 18 mm.....	16
O.H.V. 14 mm.....	L-105
Coventry Eagle	
O.H.V. 14 mm.....	L-105
O.H.V. 18 mm.....	16
125 c.c. 18 mm.....	8 Com.
125 c.c. 14 mm.....	L-10
147 c.c.....	8 Com.
197 c.c.....	L-115
C.Z.	L-10
D.K.W.	
(Auto Union)	
18 mm.....	17
RT 125.....	L-105
RT 3; RT 100.....	L-105
NZ 350...J-6 or J-10 Com.	
D.M.W.	
125 c.c.....	L-105
197 c.c.....	L-115
Dollar	15
Dot	
197 c.c. and 225 c.c.....	L-115
Scrambler	LA-11
Douglas	
150 cc.....	8 Com.
250 c.c. 14 mm.....	L-10
250 c.c. 18 mm.....	7
350 c.c. Mark V.....	L-105
350 c.c. Competition model.....	L-105

Douglas—continued

350 c.c. 80 plus and 90 plus models.....	L-115
Dunell	L-10
E.M.C.	
125 c.c. J.A.P.....	L-10
350 c.c.....	NA-8
125 c.c. RR.....	LA-11
E.M.C.-Puch	
250 c.c. and 125 c.c.....	L-10
Evans	7
Excelsior	
Models C1, C2, TT1, TT2, STT1, STT2...	NA-8
Models V1, V2, U1, F4, D12.....	L-105
Models R1, R2.....	L-115
500 c.c. Speedway engine	LA-15
125 c.c. J.O.....	16
148 c.c. J.1 and J.D.1	7 Com.-L
247 c.c. J.4 and J.D.4	7 Com.-L
F.N. 250 c.c. and 350 c.c.	
O.H.V. J-6 or J-10 Com.	
350 c.c. S.V.....	J-8
430 c.c. S.V.....	J-8
Tricar	J-8
Aluminium heads...	NA-8
Francis Barnett	
125 c.c.....	16
148 c.c. and 249 c.c.	
7 Com.-L	
125 c.c. 52, 53 and 57 Merlin.....	L-105
197 c.c. 54, 55, 58, 67 Falcon	L-115
Merlin 59 and Falcon 60.....	LA-11
Gilera	
125 standard 150-250 sports, 500 VT Mercurio	L-105
250 standard, 500 standard.....	17
500 sports J-6 or J-10 Com.	
Gillet to 1940.....	17
From 1944 J-6 or J-10 Com.	
Gnome and Rhone	
Velomoteur	L-10
350 O.H.V.....	17

RECOMMENDATIONS

Motor Cycles—continued

Greeves

25D 250 c.c. Anzani
Twin and 197 c.c.L-11S

Griffon15

Guzzi

Galletto-Airone N.....J-8
Airone sports, Falcone
L-11S

Ascorne, Super Alice.....J-8
Aldetta, Egretta Airone
PE 250 S, V, GTV.....17

Alice GTV, moto chassis
R, 3-wheeler.....16

Harley Davidson

14 mm.H-10
18 mm.17

Henderson17

Horex

200 c.c. S 2, 300 c.c. S 3...17

Husqvarna 120 c.c......17

S.V.7
O.H.V. 18 mm.....17

Indian

14 mm, head models
except Brave
J-6 or J-10 Com.

18 mm.17
BraveNA-8

James

125 c.c.16
148 c.c.7 Com.-L

197 c.c. and 249 c.c.16
122 c.c. Standard and De-
luxeL-10S

197 c.c. Standard and De-
luxeL-11S

Superlux, Comet, Com-
medore, CadetL-10S

Captain, Colonel, Com-
mando, Cotswold ..L-11S

J.A.P. Engines

350 c.c. O.H.V. Grass
Track Racing.....LA-14

500 c.c. O.H.V. Speedway
RacingLA-14

B-80 Racing 1000 c.c.
O.H.V. twin wet sump
LA-15

B-80 Racing 1000 c.c.
O.H.V. twin dry sump
LA-14

J.A.P. Engines—continued

500 c.c. O.H.V. Mark I
RacingLA-15

1000 c.c. O.H.V. Twin
Mark I Racing.....LA-15

1100 c.c. O.H.V. Twin
Mark I Racing.....LA-15

250 c.c. and 350 c.c.
Racing (1953).....NA-14

500 c.c. Racing Types
7 and B (1952-53)
LA-14 or LA-15

Jawa

500 c.c.J-8
14 mm.L-10

18 mm.7

Karnan.....17

Husqvarna Engine.....7
Sachs Engine.....7

SaxonetteJ-8
King, Sachs Engine.....7

Lauson

Model TLC.....J-8
Levis 247 c.c. 2-stroke
7 Com.-L

All S.V. 18 mm.....7
All S.V. 14 mm.....L-10

All O.H.V. 18 mm.....16
All O.H.V. 14 mm....L-10S

All other 2-strokes 8 Com.

Macchi ...J-6 or J-10 Com.

Magnat-Debon15

O.H.V.17

Matchless

S.V. models 18 mm.....7
S.V. models 14 mm....L-10

O.H.V. models 18 mm....16
1946 350 c.c.L-10

1946 500 c.c.L-10S
1947-1949 All models
Cast iron head....L-10S

1950 onwards all models
Alloy heads.....NA-8

G45NA-12 or NA-14

Monet-Guyon7

VelomoteurL-10
2-stroke17

Motobecane and

Motocomfort
VelomoteurJ-8

Velomoteur 18 mm. .7
O.H.V. 14 mm.....L-10

O.H.V. 18 mm.....17

RECOMMENDATIONS

Motor Cycles—continued

Motosacoche.....7
Sport.....17
New Imperial
All models 14 mm....L-10S
All models 18 mm.....16
New Map.....H-10
Nimbus.....L-10
Norman
125 c.c., 98 c.c.....L-10S
125 c.c. 18 mm.....B Com.
197 c.c. ....L-11S
Norton
All S.V. 18 mm.....16
Model 16H, 500 c.c. S.V.
NA-8
Big Four 596 c.c. S.V. NA-8
Model 1B 490 c.c.
O.H.V.....L-10S
Model ES-2 490 c.c. O.H.V.
L-10S
Model 30 490 c.c. O.H.C.
NA-10
Model 40 348 c.c. O.H.C.
NA-10
Model 500T 490 c.c.
O.H.V.....NA-8
88 Twin.....L-10S
7 Twin.....L-10S
Manx Racer 500 c.c. NA-19
Manx Racer 350 c.c. NA-19
O.E.C.
18 mm.....16
125 c.c.....L-10S
197 c.c.....L-11S
250 c.c. Appollo.....NA-8
O.K. Supreme
S.V. models.....7
O.H.V. and O.H.C.
14 mm.....L-10S
18 mm.....16
P. & M.
All models 18 mm.....16
All models 14 mm....L-10S
Puch
125 c.c. and 250 c.c....L-10
Peugeot.....7
Velomoteur.....L-10
O.H.V. 18 mm.....17
O.H.V. 14 mm.....J-8
Powell ..J-6 or J-10 Com.
Raleigh, S.V. models.....7
O.H.V. models.....16

Rene Gillet.....15
Velomoteur.....L-10
Rex Master.....17
Speedy.....7
Royal Enfield
Model S248 c.c., Clipper
248 c.c., 350 c.c.
Bullet, G 350 c.c., J and
J.2 500 c.c., 500 c.c.
Twin, 700 c.c. Meteor
Twin.....L-10S
150 c.c. Ensign.....L-10
125 c.c. R.E.....L-8
500 c.c. Bullet.....NA-8
Rudge Special and Ulster
14 mm. ....L-11S
18 mm.....16
All other models
18 mm.....16
14 mm.....L-10S
Sarolea
S.V. models 18 mm.....7
S.V. models 14 mm....L-10
O.H.V. models 18 mm....16
O.H.V. models 14 mm.
L-10S
Aluminium heads....NA-8
Scott 18 mm.....7
14 mm.....L-10S
Sertum 18 mm.....17
120, new series.....J-8
250, 500 c.c. O.H.V.
J-6 or J-10 Com.
Suecia
18 mm.....17
14 mm.....J-8
Sun
197 c.c., 225 c.c.....L-11S
98 c.c., 122 c.c.....L-10S
Sunbeam
1946 on 57 and 58
Twins.....N-8B
All other models
14 mm.....L-10S
18 mm.....16
Tandon
125 c.c. Villiers.....L-10S
197 c.c. Villiers, 225 c.c.
Villiers, 250 c.c.
Anzani.....L-11S
Terrot.....7
Velomoteur.....J-8
Sport 18 mm.....17

RECOMMENDATIONS

Motor Cycles—continued

- Terrot—continued**
 Sport 14 mm.....L-10
- Triumph (Britain)**
 150 c.c. Terrier, 200 c.c.
 Tiger Cub.....L-10S
 3T, 5T Speed Twin, 6T
 Thunderbird, and TR5
 Trophy, Cast iron...L-10S
 1954 model 5T, 6T
 (coil ignition).....L-10S
 TR5 Trophy alloy
 NA-10 or NA-8
 Tiger 100c NA-12 or NA-14
 Tiger 100, Cast iron,
 Tiger 110.....L-11S
 Tiger 100 Alloy.....NA-10
 Grand Prix 500 c.c.
 LA-14 or LA-15
 Other O.H.V. models
 14 mm.....L-10S
 O.H.V. models 18 mm....16
 S.V. models 14 mm.
 Except TRW.....L-10
 S.V. models 18 mm.....7
 Model TRW S.V. (Army)
 L-11S
- Velocette**
 G.T.P. 250 c.c. 2-stroke
 L-10S
 M.O.V. 250 c.c. O.H.V.
 L-10S
 M.S.S. 500 c.c. O.H.V.
 L-11S
 K.S.S. 350 c.c. Mark II NA-8
 M.A.C. 350 c.c. Cast iron
 headL-10S
 M.A.C. 350 c.c. Alloy
 headNA-8
 M.S.S. 500 c.c. Alloy head
 NA-8
- Villiers Engines**
 98 c.c. Midget.....8 Com.
 98 c.c. Junior.....L-10
 98 c.c. De Luxe...7 Com.-L
 98 c.c. Marks 1F, 2F, 4F
 L-10S

Villiers Engines—continued

- 125 c.c. Marks 8D, 9D,
 10D, 11D, 12D, 13D
 L-10S
 147 c.c. Mark 8C...8 Com.
 148 c.c. Mark 12C
 7 Com.-L
 197 c.c. Marks 6E, 7E, 8E
 L-11S
 197 c.c. Marks 1E, 2E, 3E
 7 Com.-L
 197 c.c. Mark 5E.....16
 225 c.c. Mark 1H.....L-11S
 249 c.c. Mark 14A
 7 Com.-L
 346 c.c. Mark 14B.7 Com.-L
- Vincent (H.R.D.)**
 Black Shadow.....NA-8
 RapideN-8B
 500 c.c. Comet.....NA-8
 500 c.c. Meteor.....NA-8
 Black Lightning 1000 c.c.
 NA-10
 Grey Flash 500 c.c. NA-10
 Other models
 14 mm.....L-10S
 18 mm.....16
- Vincent (N.S.U.)**
 Fox, Lux, Max.....L-10S
- Wooler**L-10S
- Zenith**
 All models 14 mm....L-10S
 All models 18 mm.....16

Special Note for Competitions Riders:—

Where L-10S is normally used fit L-11S for Scrambles.

Where NA-8 is normally used, fit NA-10 for Scrambles.

*For Vincent Grey Flash and Black Lightning Models, recommendations for special conditions given upon request.

AUTOCYCLES, SCOOTERS AND BICYCLE ATTACHMENT ENGINES

Automoto 125 c.c.....J-8	G.Y.S. Motomite
Sports.....L-10	10 mm.....Y-6
Bantamoto .....N-8B	14 mm.....L-8
Berini .....L-8	Itom.....L-10S
Bond Minibyck .....L-8	James
Bown 98 c.c.....L-10S	98 c.c. 14 mm.....L-10S
Briggs & Stratton	18 mm. J.D.L.....7 Com.-L
Motor wheel.....7	Jawa Robot 99 c.c.....L-10
B.S.A.	Jeanette Scooter
Winged wheel.....N-7	120 c.c.....L-10
Corgi .....NA-8	Johnson Motor Wheel
Coventry Eagle	18 mm.....7
98 c.c. Junior.....L-10	14 mm.....J-6 or J-10 Com.
98 c.c. Midget.....8 Com.	Lambretta
Csepel 100 c.c.....L-10	1946-47 Model A.....L-10
Cucciolo.....L-10S	1948-51 Models B, C, LC
Cushman Auto Glide	L-10S
Husky .....7	1952-54 Models D, FD,
Cub.....20 or 22	LD, E.....L-11S
14 mm. heads.....H-10	Melson 50 c.c. 2-stroke...Y-6
Cyc Auto	Mini-Motor (Trojan) ...J-8
Scott Eng.	Mo-Cyc
Fixed head.....L-8	1953 on.....L-10
Detachable head...N-8B	10 mm. to 1952.....Y-6
Villiers 98 c.c.	Mosquito (Britain).....L-10
14 mm.....L-10S	Mosquito (Italy).....J-12
18 mm.....8 Com.	M.V. 425(3M) 4M Scooter L-10S
18 mm. Long Reach	New Hudson Autobyk
7 Com.-L	14 mm.....L-8
Cyclaid	18 mm. ....16
10 mm.....Y-6	Norman
14 mm.....L-10	98 c.c. XXA.....7 Com.-L
Cyclemaster to 1953...L-8	98 c.c. 2F.....L-10S
1953 on.....L-10	Oscar
Cymota.....L-8	197 c.c. Scooter.....L-11S
C-Z 98 c.c.....7	125 c.c. Scooter.....L-10S
Douglas Vespa.....L-10S	Powerpak .....L-8
Diesela .....L-10	Rudge Autocycle 7 Com.-L
E.M.C.-Puch	Sitta .....J-8
Scooter 125 c.c.....L-10	Swallow Gadabout.....16
Excelsior Autobyk	122 c.c. ....L-10S
14 mm.....NA-8	197 c.c.....L-11S
18 mm.....7 Com.-L	Teagle .....J-12
Francis Barnett	Vallee Scooter.....L-10S
14 mm.....L-10S	V.A.P. .....L-8
18 mm. J.D.L.....7 Com.-L	Velosolex 14 mm.....L-8
Galetto .....L-10	Vespa 98 c.c.....J-8
Guzzi 65 c.c.....J-8	Vincent Firefly.....L-8

TRACTORS

Alcon8 Com.
Allis-Chalmers
 14 mm.....J-8
 18"1 Com.
All Work.....1 Com.
Alma7
American1 Com.
Austin U.S.A......7 Com.
 18"1 Com.
 18 mm.....8 Com.
 Using Wauk VIKH.....D-8
 Using I.H.C. PD40.....44
Avery Using Herc. IXB,
 ZX8J-8
 Using Herc. IXK...1 Com.
 Using other Herc. engines
 0 Com.
Aveling-Barford
 Ford engine.....L-10
 18 mm.....7 Com.
Bale-o-matic
 Combine8 Com.
Bates 35-65, 40.....D-8
 Model G.....20
 All others.....1 Com.
Bauche7 Com.-L
BeanL-10
Blanch-Lely
 "Revolution"N-7
Bernard17
B.M.B. Plowcrop.....N-8B
Bristol
 A.F. 28, 35.....L-10
 20, 22.....N-8B
British Anzani
 Iron Horse $\frac{3}{4}$ reach...N-8B
 1951 on $\frac{1}{2}$ reach.....L-10
British Holder.....8 Com.
British Wallace.....8 Com.
 18 mm.....7 Com.
Brockhouse Cultmate.....7
 PlowmateL-10
 President.....L-10
 HoemateN-8B
Case
 Model LAJ-12
 Model DEX1 Com.
 Model DC4.....7 Com.

Caterpillar
 All combines using Ford
 enginesA-25
 All other combines $\frac{1}{2}$ "
 heads1 Com.
 All Petrol Tractors.1 Com.
 Petrol starting engines
 for Diesel Tractors 35,
 40, 50, 60, 65, 70, 75,
 RD-6, RD-7, RD-8.1 Com.
 Models D-2, D-4, D-6,
 D-7, D-8, DW-10, RD-4
 15
 DW-20, DW-21J-12
Chase Dumper.....7
Citroen 18 mm.....7 Com.
 14 mm.J-8
Cletrac A and E Petrol
 1 Com.
 Paraffin22 or 20
 HG, OC-3 $\frac{1}{2}$ "1 Com.
 AG, CG, DG, EG, EH,
 EHG, EN, FG, GG,
 15, 20, 20C, 25, 30G,
 35, 40, 40-30, 55, 80
 1 Com.
 AG68 Com.
 BG, BGS 14 mm.....J-8
 BG, BGS $\frac{1}{2}$ "1 Com.
 AD, BD, DD, FD.....J-8
 BGSH-10
Cockshutt (Canada)
 Using Chrys. engine....J-8
 Using Herc. IXB3, Buda
 4B-153J-12
Coltmate7
David Brown.....8 Com.
 Magneto '030"
 Coil '020"
Eagle
 Model 6A8 Com.
 Models 6B, 6C.....1 Com.
Elgin1 Com.
Emerson.....1 Com.
Fageol.....1 Com.
F.A.R. 14 mm.....L-10
 18 mm.....7 Com.
Farmer's Boy 14 mm...L-10
 18 mm.7 Com.-L

RECOMMENDATIONS

Tractors—continued.

FarmhouseC-5

Ferguson

Petrol TE-20 (Continental Eng.)7 Com.

Petrol TE-A 20, TE-C 20, TE-K 20, TE-P 20....L-10

T.V.O. TE-D 20, TE-E 20, TE-L 20, TE-R 20....N-7

L.O. TE-H 20, TE-J 20, TE-M 20, TE-S 20....N-7

T.V.O. Conversion, TE-A 20, TE-C 20....L-8

Fiat OCI 40.....D-8

600, 601, 602, p. 18 mm. 8 Com.

600, 601, 602, p. 14 mm. J-12

30, 700, A, 700 C.....7

25 C, 25 R.....8 Com.

Ford-FergusonJ-12

Fordson

$\frac{1}{2}$ " (Major).....C-5

New Fordson Major...N-7

Fox 18 mm.....7

14 mm.....J-8

Frazer8 Com.

Glasgow8 Com.

Gray1 Com.

HuberHarvest King Combines using Cont. F-124 7

Using Herc. IXB3...1 Com.

Other models $\frac{1}{2}$ " hoods 22 or 20

Hurlimann8 Com.

International Harvester

Farmall B-64.....N-8B

Farmall A-1, AV, B, BN, C, H, HV, M, MV, Super A, AV, O-4, OS-4, O-6, OS-6, T-6, W-4, W-6, BM and Farmall Cub....15

10-20, 10-20 Orchard, 15-30, 22-36 Standard Farmall22 or 20

W-9, WR-90 Com.

F-12, F-14, F-20, F-30, Fairway 12 and 14, O-12, O-14, T-9, W-12, W14, W-30, W-40, WA-40, WK-40...1 Com.

WD-4066

TD-14, TD-18, TD-24....66

MD, MDV, ODS-6, WD-6, WD-9, WDR-9, TD-6, TD-9 ... 49

John Deere

18 mm.....7 Com.

$\frac{1}{2}$ "1 Com.

Model 55 14 mm.....J-8

Models 11-A, 12-A, M.H-10

Karrier 18 mm.....7 Com.

14 mm.....L-10

Keck Gonnerman

$\frac{1}{2}$ "C-5

Laffly.....H-10

Latil.....7 Com.

Lauson Model LB...7 Com.

Models UAS, W, WA, WB, ZW, ZWR..1 Com.

Models RLC, RSC, RC, TLCJ-8

Models RAY, LA, LF, LFR.....8 Com.

Other models.....22 or 20

Le Roi

Ku-Tractor and Mower 15

Model 105 Tractair...J-12

Other 14 mm.....J-8

$\frac{1}{2}$ "1 Com.

Mackay-Fiat

Model 25c (starting engine) J-8

Massey Harris

Combine (Austin engine) Long Reach.....N-8B

Combine (Morris engine) 7 Com.

14 mm.....J-8

18 mm.....8 Com.

Models PA, CH, 25, Domestic1 Com.

M.A.C. Combine

(Ferguson engine)...N-7

750 Combine.....L-10

780 Combine.....N-8B

Minneapolis-Moline

Models AT, JTO, JTS, JTU, TY.....1 Com.

Models FT, FTA, GT, GTB, KT, KTA, MT, MTA, UDLX, Low Compression.....1 Com.

High Compression..0 Com.

RECOMMENDATIONS

Tractors—continued.

Minneapolis-Moline—cont.

Model GTA	
Low Compression	1 Com.
High Compression	0 Com.
Models UT1, UTS, UTU	
Low Compression	1 Com.
High Compression	0 Com.
Models RTE, RT1, RTN, RTS, RTU, ZTE, ZTN, ZTS, ZTU	
Low Compression	8 Com.
High Compression	J-8
Model S Combine	7 Com.
Morris FX	7 Com.
Moto Meccanica	17
Nuffield Universal	
1948-51	8 Com.
Tractor ETD Petrol	N-7
Tractor ETC T.V.O.	N-7
M4, PM4, M3V	N-7
Oliver	
Models 60HC, 70HC, 88HC	7 Com.
Models 60KD, 70KD, 88KD, 8	8 Com.
Models 80HC, 99	0 Com.
Models 80KD, 90, 18-28, 28-44	1 Com.

Oliver—continued.

"Grainmaster" Com- bines $\frac{3}{8}$ "	1 Com.
18 mm.	8 Com.
Olymp 1 and 2 cyl.	8 Com.
Ota "Monarch"	L-10
Overtime	32
Plattypus	
Ferguson Petrol	L-10
Ferguson T.V.O.	N-7
Praga	17
Ransomes	8 Com.
Renault	17
Roanoke Balers	8 Com.
Rushton	7 Com.
Ruston Hornsby	8 Com.
Silver King	
Using own engine Model 41	8 Com.
Using Herc. IXB3	J-6 or J-10 Com.
Using Cont. F124, F126	8 Com.
Singer "Monarch"	L-10
Skoda	17
Staub	8 Com.
Toro Using Ford Engine	H-10
Husky 1 h.p.; Model AT	1 Com.
Husky $\frac{3}{4}$ h.p.	J-8
Model ME	8 Com.
Trusty 18 mm.	8 Com.
14 mm.	N-8B
Waterloo Boy	34

MARINE ENGINES—OUTBOARD AND INBOARD

Ailsa Craig	15
Albinco, motortyper:	
A-4, A-6, O-2L, S-4, U-1	
1948 on O-I-L	L-10
A1-22, A1-23, E-4, E-6, T-4	7
E-4, sprutmotor	7
O-1, O-2, O-4 to 1948	
$\frac{3}{4}$ S.A.E.	C5 (or 20)
O-1, O-2, O-4 1948, O-11, O-21, O-41	
18 mm.	7

Albinco—continued.

O-I-L to 1947, O-4	
Special to 1948	
$\frac{3}{4}$ S.A.E.	0 Com.
O-4 Special, 1948 on	
18 mm.	7
O-5-B	17
Other 18 mm.	8 Com.
Altos	7 Com.
Aquajet Minor	L-10

RECOMMENDATIONS

Marine Engines—Outboard and Inboard—continued.

Archimedes	
BS, B50, BST, BS2	
ABEA.....	31
A1, A2, A3, B1, BSL,	
BSP, BSMM, B2, B3,	
B6.....	17
B5M, BB53.....	C-5 (or 20)
B20, LK, I, S, 20.....	H-10
B22, B23, M1, S35, S50,	
S80.....	L-10
Aster	8 Com.
Atco Boat-Impeller	17
Atlantic	8 Com.
Austin 18 mm.	8 Com.
14 mm. to 1948.....	L-10
1948 on, Skipper, Chief	
N-88	
Beaudoin	8 Com.
Berg, motortyper:	
HA, KP, LKP.....	L-10
K, LS-10.....	16
LH, LK, LK1.....	LA-10
Cr, GTL, M.....	7
LA, LO-3, LO-3H, LOL	
J-12	
LAL.....	J-8
VL-3, VL-3F, VL-3FT...Y-6	
Bernard 18 mm.	7 Com.
14 mm.....	J-8
Bog-Marin, 16, 18mm.	17
16, 14 mm.....	L-10
55, 3" S.A.E.....	0 Com.
18 mm.....	8 Com.
26, 55, 14 mm.....	J-8
75-90, 6 cyl., 100-130	
0 Com.	
Brit	8 Com.
Britannia	17
British Anzani	
Unitwin 242 and 322 c.c.	
L-115	
Unitwin Racing B Class	
LA-11	
Super Single.....	15
Pilot outboard 60 c.c.....	L-10
Minor 35 c.c.....	L-10
British Motor Boat	17
British Seagull	
All models.....	8 Com.
Brockhouse Engineering	
All models.....	17
Brooke	8 Com.
Bruneau	8 Com.
Chris-Craft	
14 mm.....	J-8
Coventry Victor	
14 mm.....	L-10
18 mm, Inboard.....	7
18 mm, Outboard...8 Com.	
De Dion, pump ...7 Com., L	
De Giorgi	7
De Ville	8 Com.
Dorman	8 Com.
Effekto AF, AG	7
Elco	
Ace, Handitwin, 1936.★	
1937-41.....	8 Com.
Cub (3 h.p.) 1939.....	J-12
1940-41.....	J-12
Pal (1-1 h.p.) 1937-41...H-10	
Lightweight 1929-30,	
1931-33, Lightwin	
(5 h.p.) 1920-27,	
1934-41, Service	
Twin 1928-31,	
1936-37, Quad	
1928-29, Fisher-	
man, Lightwin,	
Imperial, Service	
"A," Super "A,"	
Fleetwin, Senior	
Speedster, Fold-	
light (2½ h.p.),	
Single, Super Single...7	
Big Quad, Speeditwin,	
Super "C," Senior	
Quad, Junior Quad,	
Handifour, Light-	
four Imperial.....	17
Spec. Speedster, Speedster	
1928-31.....	J-7
1949.....	J-7
Sportster J-6 or J-10 Com.	
★Use Type 15 where	
sparking plug will not	
interfere with engine	
shroud.	
Elto Racing	
Midget Racer.....	R-1
Racing Speeditwin 1934	
1935.....	R-1
1935.....	R-11
Racing 460 1933-34.....	R-1
1935.....	R-11

RECOMMENDATIONS

Marine Engines—Outboard and Inboard—continued.

Elto Racing—continued.

Racing Super "C" } 1930-33 model 460 } 1930-32.....	R-1
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Evinrude

Big Four 1931-32.....	17
1946-50 (50 h.p.).....	R-7
Big Twin 1931-32...0 Com.	
1951-53 (25 h.p.)	J-6 or J-10 Com.
Single "A." Fleetwin	
1928-29.....	0 Com.
1930-34 (8-11 h.p.).....	7
1950-53 (7½ h.p.)	J-6 or J-10 Com.
Speeditwin 1927-29	
	0 Com.
1930-31 (22½ h.p.).....	7
1950-52 (22½ h.p.).....	17
Fastwin 1927-29...0 Com.	
1930-33 (14 h.p.).....	7
1950-52.....	7
Super Fastwin 1953	
(15 h.p.)	J-6 or J-10 Com.
Lightwin 1931-38 (4-5-6	
h.p.).....	7
1952 (5-27 h.p.)	
1953 (3 h.p.)	J-6 or J-10 Com.
Fisherman, Sturditwin	
(8 h.p.), Foldlight	
(2½ h.p.), Sport	
Single (2-2 h.p.).....	7
Light Four (9-7 h.p.),	
Speediquad, Speedi-	
quad Imperial,	
Sport Four, Sport	
Four Imperial.....	17
Mate (½ h.p.), Ranger	
(1-1 h.p.).....	H-10
Scout.....	J-8
Sportsman 1935-38	
(1½ h.p.).....	★
1939-47 (2 h.p.).....	H-10
1948-51 (1½ h.p.)	J-6 or J-10 Com.
Sportwin 1936-38 (2½-3	
h.p.).....	★
1939-47 (3 h.p.)...}	H-10
1948-51 (3-3 h.p.)}	

Evinrude—continued.

Zephyr (5½ h.p.)
J-6 or J-10 Com.
★Use Type 15 where
sparking plug will not
interfere with engine
shroud.

Evinrude-Racing

Racing Speeditwin 1931-34	R-1
1935 onwards.....	R-11
Racing 460 1933-34.....	R-1
1935 onwards.....	R-11
Model 460 1931.....	R-7
1932.....	R-1

Feltham.....	8 Com.
Ferrier 4 h.p. Outboard	J-12
Ford ½".....	C-5 or 20
18 mm.....	7
14 mm.....	L-10

Giro Stora Bjorn.....	16
Lilla Bjorn.....	J-8
Gota.....	8 Com.

Hispano.....	17
Hylander.....	C-5 or 20

Japy, Air cooled.....	7
Water cooled.....	8 Com.
14 mm. head.....	L-10

Johnson

A25-A45.....	8 Com.
A50-A8½, AA37 (4½ h.p.)	17
AT10-AT39 (5 h.p.),	
DS37, DS38, DT10-	
DT39.....	J-8
F70, F75 (3-3 h.p.)...8 Com.	
HA10-HA39 (2½ h.p.)...J-8	
HD10-HD39, HS20, HS25	
J-6 or J-10 Com.	
HS10, HS15, HS39 (2½ h.p.)	J-8
J25-J75 (1½ h.p.)...8 Com.	
J80 (1-7 h.p.).....	J-8
JW10 (3 h.p.)	J-6 or J-10 Com.
K35-K45.....	R-7
K50-K80, KA10-KA39,	
KD15, KS15 (9-8 h.p.)	17
LT10-LT39, LS37, LS38...J-8	
MD20, MS20 (1½ h.p.)	J-6 or J-10 Com.

RECOMMENDATIONS

Marine Engines—Outboard and Inboard—continued.

Johnson—continued.

MD15, MD38, MD39, MS15, MS38, MS39...J-8	
OA55-OA65 (3 h.p.)	8 Com.
OK15-OK65 (7-8 h.p.)...R-7	
P30	8 Com.
P35-P80, PO10-PO539 (22 h.p.)...R-7	
PR Racing...R-11	
Other Racers...R-1	
QD10-QD13 (10 h.p.), RD10, RD11, RD12 (25 h.p.), RD13 (25 h.p.), TN28	J-6 or J-10 Com.
S45-S70 (13-3 h.p.)...R-7	
SC10-SD20 (16 h.p.)...17	
TD15, TD20, TN26, TN27, TS15, TS20 (5 h.p.)...J-6 or J-10 Com.	
TR40 Giant, V45-V70 (26 h.p.)...R-7	
100, 110, 300...J-8	
200, 210...8 Com.	
X400, X500 (Iron Horse)	J-8
Other Iron Horse Models	7
Karl Erik...7 Com.	
Kelvin Ricardo...8 Com.	
Knight...16	
Laros, Standard types...16	
Sports types...R-1	
Racing types...R-11	
Lutetia...17	
Racing...R-11	
Marston...16	
Meadows 18 mm...17	
14 mm...L-10	
25/40 1946...L-10	
Kingfisher...17	
Kittiwake 8/28...8 Com.	
Morris 14 mm...L-10	
18 mm...8 Com.	
Omnium...7 Com.	

Parsons

with V8 Ford engine...7	
with 10 h.p. Ford engine	L-10
All other models...8 Com.	
Penta S2...16	
U2, U2M, U21...7	
S1, S21, V2, V21...R-1	
U22...17	
Z2...J-8	
C2...15	
Pentaverken S2...7	
Pike TR4M...C-5 (or 20)	
Renee...7 Com.	
Scap...7 Com.-L	
Sharland...8 Com.	
Racing...R-1	
Soriano...R-1	
Storm 10-30...L-10	
Stuart Turner	
14 mm...L-10	
18 mm...8 Com.	
Svalan...17	
Thornycroft	
7" ...C-5 (or 20)	
18 mm...8 Com.	
Trim E, T, A...17	
C.P...16	
Racing...R-1	
Triumpf All models...1 Com.	
T.S.D...16	
Van Blerck 7" ...C-5 (or 20)	
18 mm...13	
Vandœuvre...7 Com.	
Vedette Commodore	
	8 Com.
Vedette 14 mm...L-10	
Villiers...16	
Vosper 7" ...C-5 (or 20)	
18 mm...16	
Vottero...7	
Watermota	
18 mm...8 Com.	
14 mm...L-10	
Whitehorn...8 Com.	
Wickstroem...31	

RECOMMENDATIONS

FARM, STATIONARY, LIGHTING AND MISCELLANEOUS ENGINES

Agricola	8 Com.	Broderna Skoog Borlange	
Albin $\frac{3}{4}$ "	C-5	"Solo"	8 Com.
18 mm.	7	Broomwade Compressors	
14 mm.	L-10	14 mm.	L-10
Allen	8 Com.	18 mm.	17
Altos	7 Com.	Bruneau	7 Com.
Amanco	7	Brush	N-8B
Andros 1 and 2 cyl.	7	B.S.A. Chore Horse ..	J-8
4 cyl.	8 Com.	120 c.c. 14 mm.	N-8B
Atco	8 Com.	320 c.c., 420 c.c., 18 mm.	7
Atco Mowers	8 Com.	Camplin Generating Set ..	7
Austin Industrial Engines		Carraro	17
18 mm.	8 Com.	Chafer Sprayer	8 Com.
14 mm. Short reach.	L-10	Clifford Aero Cultivator	
14 mm. $\frac{3}{4}$ " reach.	N-8B	N-8B	
Wich Resistor.	XN-8B	Aero fork lift truck	
Auto Culto	8 Com.	(Ford 10)	L-10
Auto Mowers	8 Com.	18 mm.	7 Com.-L
Autoscythe	8 Com.	Stacker truck (Meadows	
Aveling-Barford		E.L.A.V.)	L-10
$\frac{3}{4}$ "	1 Com.	Cultivator (J.A.P.)	L-10
14 mm.	L-10	Coborn	7
Avery	0 Com.	Goldwell Lawn Mower	
Bamford	8 Com.	$\frac{3}{4}$ " Gas	A-25
Baudoin	8 Com.	$\frac{1}{2}$ "	22 (or 20)
Beresford Pumps		18 mm.	8 Com.
Austin engine	L-10	Colwood	N-8B
Ford V-8 engine	7	Coventry Climax	
Bernard 18 mm.	7 Com.	Models FF and FP	L-10
14 mm.	J-8	Model FSM	N-8B
Bettas Loire	7	750 c.c. S.V. J.A.P.	7
Blackburne Mower ..	8 Com.	Models SM and Z	N-8B
Blackstone 18 mm. ..	8 Com.	Engines	L-10
14 mm.	L-10	Model FW	N-8B
Blake	7	Magneto .018"	
B.P.M.	J-8	Coil .020"	
Boulton & Paul	8 Com.	Crossley Engines	8 Com.
Bradford Gas Engine		Crossley Lighting Plant ..	17
1946 14 mm.	L-10	Cumberland Mower	
18 mm.	7 Com.	8 Com.	
Breda	7	Dashwood Engineering ..	L-10
Bridgeport	A-25	De Dion	7 Com.
British Steel Piling Engine		Dello Light	
22 (or 20)		$\frac{3}{4}$ " S.A.E.	C-5 (or 20)
Brockhouse		18 mm.	7
248 c.c.	NA-8	14 mm.	J-8
123 c.c.	N-8B	10 mm.	Y-6

RECOMMENDATIONS

Farm, Stationary, Lighting and Miscellaneous

Engines—continued.

Dennis Mower.....	8 Com.	John Bull 18 mm.....	7
Deville.....	7 Com.	14 mm.....	L-10
Dixon Hawkesworth...N-7		C. H. Johnson (Machinery)	
Dorman Engines....	8 Com.	Ltd. 14 mm.....	L-10
Douglas 1000 c.c.....	L-10	18 mm.....	7
450, 540, 630 Iron head		J. P. Super Lawn Mower	
L-10		C-5	
450, 540, 630 Alum. head		Kalamazoo $\frac{1}{2}$"...22 (or 20)	
N-83		$\frac{1}{2}$ " gas.....	A-25
Dudbridge Gas Engines	17	Kipina.....	30
Eagle.....	A-25	Kohler 18 mm.....	7
Economil.....	L-10	except Model K.....	17
Familleureux (Ford engine)		14 mm.....	L-10
4 cyl.....	C-5	Kryn & Lahy 18 mm.....	7
Ferro.....	C-5	14 mm.....	J-8
F.M. (Johnson).....	L-10	Landmaster.....	8 Com.
Fowler 4 h.p.....	N-83	Lario.....	17
Others.....	7	Levis Engineering	
Gardner.....	7	35 Rototiller.....	8 Com.
Garret Cultivator...8 Com.		Lipton Products.....	L-10
Gleniffer.....	8 Com.	Lister ACL 4 cyl.....	15
Gotamotorer.....	8 Com.	J.A.P. Engines 14 mm.	
Green Mower.....	8 Com.	L-10	
G.R.S.....	8 Com.	18 mm.....	8 Com.
Gyro 350, 700.....	17	Lockwood Ash.....	A-25
Hamworthy.....	8 Com.	Manus.....	8 Com.
H. C. Dodge 6 with Lye		Massey Harris	
U.B.....	17	Baler using VF4 or VE4	
Hercules		Wisconsin.....	8 Com.
Evansville.....	A-25	Baler using Coventry	
Hesselman.....	D-8	Victor 4 cyl. engine	L-10
Hispano.....	17	Maxim Motors...22 (or 20)	
Holland.....	A-25	Maybach.....	16
Hymatic.....	L-105	Meadows	
Ingersoll-Rand.....	D-8	12/20 Model.....	7 Com.-L
Air Compressor.....	L-105	25/40 Model.....	L-10
J.A.P.		Monarch Mower...8 Com.	
Models 2A, 25, 4F, 4J2,		Monrotiller.....	8 Com.
4J3, 5, 5S and 125 c.c.		Morris Industrial...7 Com.	
two strokes.....	L-10	Models MEB/4A and	
Models 6 and Paraffin		MEB/5A.....	N-7
versions of above		National Gas Engineering	
models.....	L-105	17	
350 c.c., 600 c.c.,		North Western.....	A-25
750 c.c., 980 c.c.,		Nudge.....	A-25
1323 c.c.....	8 Com.	Omnium.....	7 Com.
Model 5 (Type 8 Ran-		Packman.....	L-10
some & Rapier)...L-105		Parsons Oil Engines	
34 c.c., 80 c.c.....	XL-10	8 Com.	
		Peerless.....	7

RECOMMENDATIONS

Farm, Stationary, Lighting and Miscellaneous

Penta	8 Com.
A4, A2, C, DC6, E, K11, K21, L2, L4, L6, F.....	17
F1	7
HA6, P, Hesselman.....	D-8
M	8 Com.
Portable Compressor.....	7
Petter Engines	
M Types.....	8 Com.
PU8 and Universal	7 Com.-L
2A and AH.....	J-8
1948 onwards.....	N-8B
Power Mower	J-8
Quasi Arc Welding	
Engines	7
Qualcast Mower	8 Com.
Ransome	
ST50, 54, 55, 59, 63, 64, EP3GI.....	8 Com.
"Vibro-Hoe"	7 Com.-L
Mowers	8 Com.
Renee	7 Com.
Rival	7 Com.
Rosengart	8 Com.
Rotary Hoes	
6 h.p. Gem.....	N-8B
10 h.p. Gem.....	7 Com.-L
Bancam Rotavator (Brough engine).....	L-10
(Villiers engine).....	8 Com.
Gem Mk. IV (600 c.c. J.A.P.)...8 Com.	
(810 Twin).....	N-8B
Yeoman	N-8B
Rotosythe 18 mm	8 Com.
14 mm.....	L-10
Rototiller	8 Com.
Rowtrac	8 Com.
Royal Enfield Mower	
14 mm.....	J-8
18 mm.....	8 Com.
Ruby	7
Rustic	7 Com.
Ruston Hornsby	8 Com.
Saunders	17
Scap	7 Com.
Simar	8 Com.

Engines—continued.

Smart & Brown	8 Com.
Steel Piling Engine	
22 (or 20)	
Stuart Turner	
18 mm.....	8 Com.
14 mm.....	L-10
Tangye Engines	17
Tarpen	
18 mm.....	8 Com.
14 mm.....	J-12
Thorobred	7
Tosello	7 Com.
Trim	17
T.S.D.	17
Tyke Bruks	8 Com.
Vandeuve	7 Com.
Victoria Oil Engines	
8 Com.	
Victor Voitto	8 Com.
Villiers	
Four Stroke Units 18 mm.	
8 Com.	
except Mks. 40 and 40	
High Speed	7
Two Stroke Units	
Mks. 2G, 3G, 3 Fan	
Cooled, 15.....	L-10S
Mks. 2 Midget, 3	
Midget, 10C, 11C,	
24A, 24C, 25A,	
26C, 27B, 28C and	
79 c.c.....	8 Com.
Mks. 17A, 18A 7 Com.-L	
Mks. 26A, 28B.....	7
Mk. 25C (Radio	
shielded).....	SX-7
Mk. 25C (Not shielded)	
8 Com.	
Villiers Waterpump	17
Waterloo Boy	A-25
Waukesha	D-8
Waverley Mower	8 Com.
Weber	A-25
Wickstrom	A-25
Wolseley Sheep Shearer	
14 mm, Long reach.....	N-7
14 mm, Short Reach...J-12	
18 mm.....	8 Com.

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3. 622	... Nozzle.
1. 632	... Cleaner Casting.
3. 512	... Nozzle Jet.
2. 502	... Rubber Adaptor 14 mm.
1. 503	... Rubber Adaptor 18 mm.
1. 590/BR	... Trembler Points.
1. M/2	... Gap Gauge and Adjuster.

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Height (with floor legs) $43\frac{1}{2}$ " ; width 20" ; depth 14". Compressed air requirements 120-180 lb. per sq. in. Colour, grey only. Shipping weight, 50 lb.

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Model F600B (Floor Model)

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Both the above for use with 6-volt battery.

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		£	s.	d.
501	Rubber Adaptor, 10 mm.	1	3
502	Rubber Adaptor, 14 mm.	1	3
503	Rubber Adaptor, 18 mm.	1	3
504	Rubber Adaptor, $\frac{7}{8}$ " S.A.E. ...	...	1	3
512	Nozzle Jet ...	...		8
513	Cleaner Bag ...	...	3	4
515	Bag Clamp ...	...	1	9
523	Abrasive Drain Cap ...	...		8
526	Adaptor Hold-down Cap ...	...	1	8
533	Abrasive Compound, per tin ...	...	2	6
534	Metal Spark Plug Tray ...	...	2	1
605	Floor Stand ...	...	1	17 6
606	Bench Legs (each) ...	...	2	1
607	Abrasive Shield ...	...	4	2
608	Abrasive Shield Springs ...	...		3
609	Cleaner Unit ...	...	2	1 3
617	Valve Assembly Complete ...	...	1	1 8
619	Valve Stem Assembly ...	...	2	6
620	Valve Handle Assembly ...	...	2	1
621	Valve Knob ...	...		7
622	Rubber Nozzle ...	...		6
623	Valve Washer ...	...		4
624	Bag Frame Assembly ...	...	15	5
627	Cabinet ...	...	3	3 4
628	$\frac{1}{4}$ " Pipe Nozzle ...	...	2	6
629	Airline to Abrasive Jet ...	...	3	4
630	Airline to Blow-off Jet ...	...	3	9
632	Cleaner Casting and Pick-up Tube ...	...	5	10

CHAMPION PLUG SERVICE

SERIES '600' CLEANER AND TESTER UNIT SPARE PARTS PRICE LIST

TESTER SPARES

Part No.	Description	Price		
		£	s.	d.
510	Steel Comparator Adaptor, 10 mm.	1	0	
514	Steel Comparator Adaptor, 14 mm.	1	0	
518	Steel Comparator Adaptor, 18 mm.	1	0	
519	Fibre Gasket for Steel Comparator Adaptor			2
540	Plastic Comparator Rim (not interchangeable with metal rim) ...	1	8	
552	Comparator Chamber Glass Repair Kit	1	3	
555A	Sparking Comparator Complete ...	1	0	0
556C	Glass (Clear) for Plastic Rim Comparator			8
560	Comparator Button Switch and Plate	7	11	
591	Battery Clip (each)			8
611	Air Hose	9	0	
616	Coil Cover	1	3	
625	High Tension Cable Assembly ...	4	3	
1001	Compression Chamber Assembly ...	1	8	4
1004	Mirror Plate only	3	9	
1005	Valve Stem	5	0	
1013	Universal Clip (to Sparking Plug) ...			5
1014	Clip Protector	1	3	
1020	$\frac{1}{8}$ " Street Elbow	2	6	
1026	Mirrors (package of two)	1	3	
1038	Valve Nut and Packing	1	8	
F564/BR	Transformer (Variable Tappings) 120/240 volts, 50/60 cycles	1	10	0
B1893	Coil	2	7	6
590/BR	Trembler Points (Vibrator) ...	2	3	
M/2	Gap Gauge and Adjuster	1	6	



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