



MORRIS

G31

SERVICE INFORMATION



Published by
MORRIS MOTORS LIMITED
COWLEY, OXFORD





Date of issue: December, 1932

1933 General Data (all Models)

DATA	1 MINOR S.W.B.	2 MINOR L.W.B.	3 MINOR VAN	4 TEN
Bore	57 mm. 2.244"	57 mm. 2.244"	57 mm.	63.5 mm.
Stroke	83 mm.	83 mm.	83 mm.	102 mm.
Bore/Stroke Ratio	1.4561	1.4561	1.4561	1.61
Cubic Capacity	847 c.cm.	847 c.cm.	847 c.cm.	1292 c.cm.
R.A.C. Rating	8.05 h.p.	8.05 h.p.	8.05 h.p.	10 h.p.
Compression Ratio	4.9-1	4.9-1	4.9-1	5.76-1
Firing Order	1, 3, 4, 2	1, 3, 4, 2	1, 3, 4, 2	1, 3, 4, 2
Cooling System	Thermo-Syphon	Thermo-Syphon	Thermo-Syphon	Thermo-Syphon
Valve Diameter	1"	1"	1"	28 mm.
B.H.P./R.P.M.	See Table A	See Table A	See Table A	See Table B
Engine Oil Sump Capacity	$\frac{1}{2}$ gallon	$\frac{1}{2}$ gallon	$\frac{1}{2}$ gallon	1 gallon
Petrol Tank Capacity	5 gallons	5 gallons	5 gallons	7 gallons
Starter Ratio	8.3-1	8.3-1	8.3-1	8.63-1
Teeth on Starter	10	10	10	11
Teeth on Flywheel	83	83	83	95
Gearbox Ratios—1st	3.86-1	3.86-1	3.5-1	3.97-1
2nd	2.32-1	2.32-1	1.833-1	2.25-1
3rd	1.47-1	1.47-1	—	1.475-1
Top	1-1	1-1	1-1	1-1
Reverse	3.86-1	3.86-1	2.833-1	5.1-1
Back Axle Ratio	5.375-1	5.375-1	5.375-1	4.7-1
Teeth on Drive Gear	8	8	8	10
Teeth on Crown Wheel	43	43	43	47
Driving Ratio—1st	20.747-1	20.747-1	18.81-1	18.66-1
2nd	12.47-1	12.47-1	9.852-1	10.575-1
3rd	7.9-1	7.9-1	—	6.932-1
Top	5.375-1	5.375-1	5.375-1	4.7-1
Reverse	20.747-1	20.747-1	15.227-1	23.5-1
Cooling System Capacity	12 pints	12 pints	11 $\frac{1}{2}$ pints	24 pints
Carburetter Needles	S W R	S W R	S W R	S W R
S=Standard				
W=Weak	M9	MO M7	M9 MO M7	M9 MO M7
R=Rich				
Gearbox Oil Capacity	2 pints	2 pints	2 pints	1 $\frac{1}{2}$ pints
Back Axle Oil Capacity	1 pint	1 pint	1 pint	2 pints
Wheel Size	19x2.15	19x2.15	19-2.15	19-25
Tyre Sizes	4.0x19	4.0x19	4.0-19	4.5-19
Tyre Pressures	{ 2-Str. 22 F. 24 R. 4-Str. 22 F. 26 R. }	24 F. 27 R.	22 F. 26 R.	27 F. 32 R.
Minimum Ground Clearance	6 $\frac{1}{2}$ "	6 $\frac{1}{2}$ "	6 $\frac{1}{2}$ "	8
Weight, Average	12 cwt. 3 qr.	14 cwt. 2 qr.	12 cwt.	19 cwt. 3 qr.
Permissible Body Weight on Chassis	3 cwt. 3 qr.	4 cwt. 3 qr.	3 cwt. 1 qr.	5 cwt. 2 qr.
Track	41 $\frac{1}{2}$ "	41 $\frac{1}{2}$ "	41 $\frac{1}{2}$ "	48 $\frac{1}{2}$ "
Wheelbase	78"	90 $\frac{3}{4}$ "	78"	96"
Length Overall	121"	130"	117"	149"
Width Overall	51"	52"	50"	61"
Height, Average... ..	61"	64"	65"	65"
Brake-drum Diameter	8"	8"	8"	10"
Steering Box Ratio	9-1	9-1	7.66-1	11-1
Turning Circles... ..	R.H. 32' 3" L.H. 31' 2"	R.H. 35' 7" L.H. 34' 9"	R.H. 32' 3" L.H. 31' 2"	R.H. 39' L.H. 3'
Oil and Capacity	STW9E. 51AH.	STW9E. 51AH.	STW9E. 51AH.	SLTW11A.
Plug Type	AC.331. L.R.	AC.331. L.R.	AC.331. L.R.	AC.339. L.R.
Spur Gears—Driver	4	4	4	5
Driven	17	17	17	17





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1933 General Data—continued

DATA	5	6	7	8
	11.9 COWLEY	COWLEY VAN	14 h.p. MAJOR	15 h.p. MAJOR
Bore	69.5 mm.	75 mm.	61.25 mm.	63.5 mm.
Stroke	102 mm.	102 mm.	102 mm.	102 mm.
Bore/Stroke Ratio	1.467	1.36	1.665	1.61
Cubic Capacity	1548 c.cm.	1802 c.cm.	1803 c.cm.	1938 c.cm.
R.A.C. Rating	11.9 h.p.	13.9 h.p.	13.9 h.p.	14.99
Compression Ratio	5.3-1	5.15-1	5.5-1	5.76-1
Firing Order	1, 3, 4, 2	1, 3, 4, 2	1, 5, 3, 6, 2, 4	1, 5, 3, 6, 2, 4
Cooling System	Thermo-Syphon	Thermo-Syphon	Impeller	Impeller
Valve Diameter	33 mm.	33 mm.	28 mm.	28 mm.
B.H.P./R.P.M.	See Table C	See Table D	See Table E	See Table F
Engine Oil Sump Capacity	1½ gallons	1½ gallons	1½ gallons	1½ gallons
Petrol Tank Capacity	7½ gallons	7 gallons	10 gallons	10 gallons
Starter Ratio	2.368-1	2.368-1	8.63-1	8.63-1
Teeth on Starter	19 (Chain Drive)	19 (Chain Drive)	11	11
Teeth on Flywheel	45	45	95	95
Gearbox Ratios—1st	3.97-1	3.2-1	4-1	4-1
2nd	2.25-1	1.72-1	2.28-1	2.28-1
3rd	1.475-1	—	1.479-1	1.479-1
Top	1-1	1-1	1-1	1-1
Reverse	5.1-1	3.9-1	5-1	5-1
Back Axle Ratio	4.75-1	5.27-1	5.27-1	5.27-1
Teeth on Drive Gear	12	11	11	11
Teeth on Crown Wheel	57	58	58	58
Driving Ratios—1st	18.86-1	16.864-1	21.08-1	21.08-1
2nd	10.687-1	9.064-1	12.015-1	12.015-1
3rd	7-1	—	7.794-1	7.794-1
Top	4.75-1	5.27-1	5.27-1	5.27-1
Reverse	23.75-1	20.553-1	26.35-1	26.35-1
Cooling System Capacity	31 pints	32½ pints	24½ pints	25½ pints
Carburetter Needles	S W R	S W R	S W R	S W R
S=Standard	M2 M6 M1	M6 M7 M5	MA M6 M5	MA M6 M5
W=Weak		M8	M7	M7
R=Rich		M9		
Gearbox Oil Capacity	1½ pints	1½ pints	1½ pints	1½ pints
Back Axle Oil Capacity	4 pints	4 pints	4 pints	4 pints
Wheel Size	19×3	19×3	19×3	19×3
Tyre Sizes	5.0×19	5.0×19	5.0×19	5.0×19
Tyre Pressures	{ 2-Str. 25 F. 30 R. 4-Str. 25 F. 33 R. }	25 F. 33 R.	27 F. 34 R.	27 F. 34 R.
Minimum Ground Clearance	8"	8"	8½"	8½"
Weight, Average	22 cwt. 1 qr.	20 cwt. 1 qr. 10 lb.	23 cwt. 3 qr.	23 cwt. 3 qr.
Permissible Body Weight on Chassis	5 cwt. 3 qr.	6 cwt.	6 cwt.	6 cwt.
Track	48"	48"	52"	52"
Wheelbase	105"	105"	106"	106"
Length Overall	159"	155½"	161"	161"
Width Overall	62"	61"	64"	64"
Height, Average	69"	75"	69"	69"
Brake-drum Diameter	10"	10"	10"	10"
Steering Box Ratio	12.64-1	12.64-1	12.64-1	12.64-1
Turning Circles...	R.H. 41' 3" L.H. 39' 7"	R.H. 41' 4" L.H. 42' 2"	R.H. 42' L.H. 41' 6"	R.H. 42' L.H. 41' 6"
Battery Type and Capacity	STW9A. 63AH.	STW9A. 63AH.	STW11A. 75AH.	STW11A. 75AH.
Spark Plug Type	AC.339. S.R.	AC.331. L.R.	KL.G.K2. L.R.	KL.G.K2. L.R.
Speedometer Gears—Driver	7	6	12	
Driven	15	14	12	





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1933 General Data—continued

DATA	9 16 h.p. OXFORD	10 ISIS	11 MORRIS "25"
Bore ...	65.5 mm.	69 mm.	82 mm.
Stroke ...	102 mm.	110 mm.	110 mm.
Bore/Stroke Ratio ...	1.557	1.594	1.3413
Cubic Capacity ...	2062 c.cm.	2468 c.cm.	3485 c.cm.
R.A.C. Rating ...	16 h.p.	17.7 h.p.	25.01
Compression Ratio ...	5.65-1	5.5-1	5-1
Firing Order ...	1, 5, 3, 6, 2, 4	1, 5, 3, 6, 2, 4	1, 5, 3, 6, 2, 4
Cooling System ...	Impeller	Impeller	Impeller
Valve Diameter ...	30 mm.	33 mm.	33 mm.
B.P.H./R.P.M. ...	See Table G	See Table H	See Table I
Engine Oil Sump Capacity ...	1½ gallons	1½ gallons	2 gallons
Petrol Tank Capacity ...	12 gallons	17 gallons	17 gallons
Starter Ratio ...	9.45-1	10-1	10-1
Teeth on Starter ...	11 (Startix)	11 (Startix)	11 (Startix)
Teeth on Flywheel ...	104	110	110
Gearbox Ratios—1st ...	4-1	4-1	4.173-1
2nd ...	2.28-1	2.28-1	2.355-1
3rd ...	1.479-1	1.479-1	1.43-1
Top ...	1-1	1-1	1-1
Reverse ...	5-1	5-1	5.36-1
Back Axle Ratio ...	5.27-1	4.9-1	4.45-1
Teeth on Drive Gear ...	11	10	11
Teeth on Crown Wheel ...	58	49	49
Driving Ratios—1st ...	21.08-1	19.6-1	18.57-1
2nd ...	12.015-1	11.17-1	10.48-1
3rd ...	7.794-1	7.247-1	6.363-1
Top ...	5.27-1	4.9-1	4.45-1
Reverse ...	26.35-1	24.5-1	23.85-1
Cooling System Capacity ...	33½ pints	43 pints	43 pints
Carburettor Needles ...	S W R	S W R	S W R
S—Standard			
W—Weak	QA	QW	H2
R—Rich		S5	S4 S6
Gearbox Oil Capacity ...	1½ pints	1½ pints	2 pints
Back Axle Oil Capacity ...	4 pints	3 pints	3 pints
Wheel Size ...	18×3.25	19×3.25	19×3.25
Tyre Sizes ...	5.25×18	5.5×19	6.0×19
Tyre Pressures ...	26F. 34R.	30F. 34R	30F. 34R.
Minimum Ground Clearance ...	7½"	8½"	8½"
Weight, Average ...	27 cwt. 3 qr.	31 cwt. 2 qr.	31 cwt. 2 qr.
Permissible Body Weight on Chassis ...	6 cwt. 3 qr.	7 cwt. 2 qr.	7 cwt. 2 qr.
Track ...	56"	56"	56"
Wheelbase ...	114"	120"	120"
Length Overall ...	167"	178"	178"
Width Overall ...	70"	71½"	71½"
Height, Average ...	69"	71"	71"
Brake-drum Diameter ...	12"	14"	14"
Steering Box Ratio ...	12.64-1	12.64-1	16-1
Turning Circles ...	R.H. 44' L.H. 44'	R.H. 46' 2" L.H. 44' 2"	R.H. 46' 2" L.H. 44' 2"
Battery Type and Capacity ...	STW11A. 75AH.	STW11A. 75AH.	STW11A. 75AH.
Spark Plug Type ...	KL.G.K1. S.R.	KL.G.K2. L.R.	KL.G.K1. S.R.
Gears—Driver ...	12	8	8
Driven ...	12	9	9





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1933 General Data—continued

TABLE A (MINOR)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	5.25
1500	8.50
2000	11.50
2500	14.00
3000	16.50
4000	19.00
4200	19.25 (PEAK)

TABLE B (TEN)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	8.80
1400	12.50
1800	16.15
2200	18.5
2600	21
3000	22.5
3200	23 (PEAK)
3400	22.5

TABLE C (COWLEY 11.9 H.P.)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	10.75
1400	15.70
1800	20.20
2200	24.25
2600	27.50
3000	29.85
3400	31.00 (PEAK)

TABLE D (COWLEY VAN 14/32 H.P.)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	13.15
1400	19.00
1800	24.75
2200	29.50
2600	33.00
3000	35.5
3400	36.00 (PEAK)





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1933 General Data—continued

TABLE E (MAJOR 14 H.P.)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	11.50
1500	16.50
2000	20.50
2500	24.50
3000	27.50
3400	28.75 (PEAK)

TABLE F (MAJOR 15 H.P.)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	12.50
1500	18.25
2000	23.00
2500	27.25
3000	30.25
3400	32.25 (PEAK)

TABLE G (OXFORD 16 H.P.)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	14.25
1400	20.5
1800	26
2200	31
2600	35.5
3000	39
3400	41.5
3600	41.75 (PEAK)

TABLE H (ISIS)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	19.10
1400	27
1800	33.25
2200	39.5
2600	45
3000	49
3200	49.8 (PEAK)

TABLE I (TWENTY-FIVE)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
800	20.00
1400	34.65
2000	47.5
2400	54.25
2800	58.95
3000	60.00 (-----)
3200	58.95





Date of issue: March, 1934

1934 General Data (all Models)

DATA	1 MINOR S.W.B.	2 MINOR L.W.B.	3 MINOR VAN	4 TEN FOUR
Bore	57 mm. 2.244"	57 mm. 2.244"	57 mm. 2.244"	63.5 mm.
Stroke	83 mm.	83 mm.	83 mm.	102 mm.
Bore/Stroke Ratio	1.456	1.456	1.456	1.61
Cubic Capacity	847 c.cm.	847 c.cm.	847 c.cm.	1292 c.cm.
R.A.C. Rating	8.05 h.p.	8.05 h.p.	8.05 h.p.	9.99 h.p.
Compression Ratio	4.9-1	4.9-1	4.9-1	5.7-1
Firing Order	1, 3, 4, 2	1, 3, 4, 2	1, 3, 4, 2	1, 3, 4, 2
Cooling System	Thermo-Syphon	Thermo-Syphon	Thermo-Syphon	Thermo-Syphon
Valve Diameter	1"	1"	1"	28 mm.
B.H.P., R.P.M.	See Table A	See Table A	See Table A	See Table B
Engine Oil Sump Capacity	$\frac{1}{2}$ gallon	$\frac{1}{2}$ gallon	$\frac{1}{2}$ gallon	1 gallon
Petrol Tank Capacity	5 gallons	5 gallons	5 gallons	7 gallons
Starter Ratio	8.3-1	8.3-1	8.3-1	8.63-1
Teeth on Starter	8	8	8	11
Teeth on Flywheel	43	43	43	95
Gearbox Ratios—1st	4.18-1	4.18-1	3.5-1	4-1
2nd	2.32-1	2.32-1	1.833-1	2.36-1
3rd	1.59-1	1.59-1		1.53-1
Top	1-1	1-1	1-1	1-1
Reverse	4.18-1	4.18-1	2.833-1	5.143-1
Back Axle Ratio	5.375-1	5.375-1	5.375-1	5.22-1
Teeth on Drive Gear	8	8	8	9
Teeth on Crown Wheel	43	43	43	47
Driving Ratios—1st	22.46-1	22.46-1	18.81-1	20.88-1
2nd	12.47-1	12.47-1	9.852-1	12.32-1
3rd	8.546-1	8.546-1		7.986-1
Top	5.375-1	5.375-1	5.375-1	5.22-1
Reverse	22.46-1	22.46-1	15.227-1	26.845-1
Cooling System Capacity	12 pints	12 pints	11 $\frac{1}{2}$ pints	23 $\frac{1}{2}$ pints
Carburettor Needles	S W R	S W R	S W R	S W R
S—Standard				
W—Weak	M9 MO M	M9 MO M	M9 MO M	MA M6 M5
R—Rich				
Gearbox Oil Capacity	2 pints	2 pints	2 pints	2 pints
Back Axle Oil Capacity	1 pint	1 pint	1 pint	2 pints
Wheel Size	18 x 2.15	18 x 2.15	18 x 2.15	19 x 2.5
Tyre Size	4 x 18	4 x 18	4 x 18	4.5-19
Tyre Pressures	Front 26 Rear 26	Front 26 Rear 26	Front 26 Rear 26	Front 32 Rear 32
Minimum Ground Clearance	6"	5 $\frac{1}{2}$ "	6"	6"
Weight Average	13 cwt. 1 qr. 22 lb.	15 cwt. 0 qr. 26 lb.	12 cwt. 0 qr. 0 lb.	20 cwt. 2 qr. 4 lb.
Permissible Body Weight on Chassis	3 $\frac{1}{2}$ cwt.	4 $\frac{1}{2}$ cwt.	5 cwt.	5 $\frac{1}{2}$ cwt.
Track	41 $\frac{1}{2}$ "	41 $\frac{1}{2}$ "	41 $\frac{1}{2}$ "	48 $\frac{1}{2}$ "
Wheelbase	78"	91"	78"	96"
Length Overall	121"	131"	120"	148"
Width Overall	52"	52"	51"	61"
Height (Average)	61"	64"	65"	65"
Brake-drum Diameter	8"	8"	8"	10"
Steering Box Ratio	9-1	9-1	9-1	11-1
Turning Circles	R.H. 32' 11" L.H. 29' 7"	R.H. 37' 4" L.H. 34' 10"	R.H. 32' 3" L.H. 31' 2"	R.H. 38' 1" L.H. 37' 1"
Type and Capacity	SLTW11E 50AH	SLTW11E 50AH	STW9E 51AH	SLTW11E Twi
Plug Type	Champion No. 7SR	Champion No. 7SR	Champion No. 7SR	Champion
ter Gears—Driver	4	4	4	4
Driven	17	17	17	15





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1934 General Data—continued

DATA	5 Ten Six	6 Ten Six Special	7 Cowley Van	8 Cowley Four
Bore...	57 mm.	57 mm.	75 mm.	69.5 mm.
Stroke ...	90 mm.	90 mm.	102 mm.	102 mm.
Bore/Stroke Ratio ...	1.3413	1.3413	1.36	1.467
Cubic Capacity ...	1378 c.cm.	1378 c.cm.	1802 c.cm.	1550 c.cm.
R.A.C. Rating ...	12.08 h.p.	12.08 h.p.	13.9 h.p.	11.9 h.p.
Compression Ratio ...	5.8-1	5.8-1	5.1-1	5.65-1
Firing Order ...	1, 5, 3, 6, 2, 4	1, 5, 3, 6, 2, 4	1, 3, 4, 2	1, 3, 4, 2
Cooling System ...	Thermo-Syphon	Thermo-Syphon	Impeller	Thermo-Syphon
Valve Diameter ...	25 mm.	25 mm.	33 mm.	33 mm.
B.H.P. R.P.M. ...	See Table C	See Table D	See Table E	See Table F
Engine Oil Sump Capacity ...	1½ gallons	1½ gallons	1 gallon	1½ gallons
Petrol Tank Capacity ...	7 gallons		7½ gallons	7½ gallons
Starter Ratio ...	8.63-1	8.63-1	2.368-1	9.46-1
Teeth on Starter ...	11	11		11
Teeth on Flywheel ...	95	95		104
Gearbox Ratios—1st ...	4-1	4-1	3.42-1	4-1
2nd ...	2.36-1	2.36-1	1.85-1	2.36-1
3rd ...	1.53-1	1.53-1		1.53-1
Top ...	1-1	1-1	1-1	1-1
Reverse ...	5.143-1	5.143-1	4.15-1	5.143-1
Back Axle Ratio ...	5.55-1	5.55-1	5.27-1	5.27-1
Teeth on Drive Gear ...	9	9	11	11
Teeth on Crown Wheel ...	50	50	58	58
Driving Ratios—1st ...	22.2-1	22.2-1	18.02-1	21.08-1
2nd ...	13.09-1	13.09-1	9.7-1	12.437-1
3rd ...	8.49-1	8.49-1		8.063-1
Top ...	5.55-1	5.55-1	5.27-1	5.27-1
Reverse ...	28.54-1	28.54-1	21.82-1	27.104-1
Cooling System Capacity ...	25 pints		28 pints	27 pints
Carburettor Needles ...	S W R	S W R	S W R	S W R
S—Standard				
W—Weak	M5 M6 No. 1	69 WX R3	M2 S M1	M5 M6 No. 1
R—Rich				
Gearbox Oil Capacity ...	2 pints	2 pints	1½ pints	2 pints
Back Axle Oil Capacity ...	2 pints	2 pints	4 pints	4 pints
Wheel Sizes ...	19 × 2.5	19 × 2.5	19 3	19 3
Tyre Sizes ...	4.5 × 19	4.75 × 19	5 × 19	5 × 19
Tyre Pressures ...	Front 32 Rear 32			Front 32 Rear 32
Minimum Ground Clearance ...	6¾"		7"	8½"
Weight (Average) ...	21 cwt. 2 qr. 10 lb.		19 cwt. 3 qr. 26 lb.	22 cwt. 1 qr. 22 lb.
Permissible Body Weight on Chassis ...	5½ cwt.		8 cwt.	5½ cwt.
Track ...	48½"	48½"	48½"	48"
Wheelbase ...	101¾"	101¾"	105"	102"
Length Overall ...	151"	156"	154"	156"
Width Overall ...	61"	60"	61"	61½"
Height (Average) ...	65"		72"	67"
Brake-drum Diameter ...	10"			10"
Steering Box Ratio ...	11-1	11-1	12.64-1	12.64-1
Turning Circles ...	R.H. 38' 11" L.H. 40' 6"	R.H. 38' 11" L.H. 40' 6"	R.H. 41' 3" L.H. 39' 7"	R.H. 40' 10" L.H. 39' 0"
Battery Type and Capacity ...	SLTW11E 50AH	SLTW11E 50AH	STW9A 50AH	SLTW11E 50AH
Sparking Plug Type ...	Champion No. 2	Champion No. 2	AC331 L.R.	Champion No. 2
Gears—Driver ...	3	3	6	
Driven ...	12	12	14	1





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1934 General Data—continued

DATA	9 COWLEY SIX	10 OXFORD	11 ISIS	12 MORRIS "25"
Bore...	63.5 mm.	65.5 mm.	69 mm.	82 mm.
Stroke ...	102 mm.	102 mm.	110 mm.	110 mm.
Bore Stroke Ratio ...	1.61	1.557	1.594	1.3413
Cubic Capacity ...	1938 c.cm.	2062 c.cm.	2468 c.cm.	3485 c.cm.
R.A.C. Rating ...	14.99 h.p.	15.94 h.p.	17.7 h.p.	25.01 h.p.
Compression Ratio ...	5.7-1	5.65-1	5.1-1	5.5-1
Firing Order ...	1, 5, 3, 6, 2, 4	1, 5, 3, 6, 2, 4	1, 5, 3, 6, 2, 4	1, 5, 3, 6, 2, 4
Cooling System ...	Pump and Fan	Impeller and Fan	Pump and Fan	Impeller and Fan
Valve Diameter ...	28 mm.	30 mm.	33 mm.	35 mm.
B.H.P./R.P.M. ...	See Table G	See Table H	See Table I	See Table J
Engine Oil Sump Capacity ...	1½ gallons	1½ gallons	1½ gallons	2 gallons
Petrol Tank Capacity ...	10 gallons	14 gallons	17 gallons	17 gallons
Starter Ratio ...	8.63-1	9.46-1	10-1	10-1
Teeth on Starter ...	11	11	11	11
Teeth on Flywheel ...	95	104	110	110
Gearbox Ratios—1st ...	4.0-1	4.0-1	4.0-1	4.17-1
2nd ...	2.28-1	2.28-1	2.28-1	2.35-1
3rd ...	1.479-1	1.479-1	1.479-1	1.48-1
Top ...	1-1	1-1	1-1	1-1
Reverse ...	5-1	5-1	5-1	5.36-1
Back Axle Ratio ...	5.27-1	5.27-1	4.9-1	4.45-1
Teeth on Drive Gear ...	11	11	10	11
Teeth on Crown Wheel ...	58	58	49	49
Driving Ratios—1st ...	21.08-1	21.08-1	19.6-1	18.557-1
2nd ...	12.015-1	12.015-1	11.177-1	10.458-1
3rd ...	7.794-1	7.794-1	7.52-1	6.586-1
Top ...	5.27-1	5.27-1	4.9-1	4.45-1
Reverse ...	26.35-1	26.35-1	24.5-1	23.852-1
Cooling System Capacity ...	25 pints	37 pints	40 pints	40 pints
Carburettor Needles ...	S W R	S W R	S W R	S W R
S—Standard				
W—Weak	MA M6 M5	QA QW H2	S5 S4 S6	OA6 OA7 KW
R—Rich				
Gearbox Oil Capacity ...	2½ pints	2½ pints	2½ pints	2½ pints
Back Axle Oil Capacity ...	4 pints	4 pints	3 pints	3 pints
Wheel Size ...	19 × 3	18 × 3.25	19 × 3.25	19 × 3.75
Tyre Size ...	5 × 19	5.25 × 18	5.5 × 19	6 × 19
Tyre Pressures ...	Front 33 Rear 33	Front 34 Rear 34	Front 34 Rear 34	Front 34 Rear 34
Minimum Ground Clearance ...	7"	7"	8½"	8½"
Weight (Average) ...	24 cwt. 0 qr. 20 lb.	29 cwt. 0 qr. 24 lb.	33 cwt. 0 qr. 10 lb.	36 cwt. 1 qr. 8 lb.
Permissible Body Weight on Chassis ...	6 cwt.	6½ cwt.	7½ cwt.	7½ cwt.
Track ...	52"	56"	56"	56"
Wheelbase ...	106"	114½"	120"	120"
Length Overall ...	160"	171"	180"	183"
Width Overall ...	65½"	70"	71½"	71½"
Height (Average) ...	67"	68"	71"	71"
Brake-drum Diameter ...	10"	12"	14"	14"
Steering Box Ratio ...	12.64-1	13-1	13-1	16-1
Turning Circles ...	R.H. 42' 0" L.H. 39' 5"	R.H. 43' 6" L.H. 45' 4"	R.H. 49' 3" L.H. 42' 11"	R.H. 43' 1" L.H. 48' 8"
Battery Type and Capacity ...	SLTW13E 60AH (Twin)	SLTW13A 60AH	STW11A 12 63AH	STW11A 12 63AH
Plug ...	Champion No. 7SR	KL.G. K1SR	KL.G. K1SR	KL.G. K
ter Gears—Driver ...	6	6	8	8
Driven ...	14	14	9	9





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1934 General Data—continued

TABLE A (MINOR)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	5.25
1500	8.5
2000	11.5
2500	14
3000	16.5
3500	18
4000	19
4200	19.25 (PEAK)

TABLE B (TEN FOUR)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	9.8
1500	15.2
2000	19.9
2500	24.25
3000	26.5
3400	27.5 (PEAK)

TABLE C (TEN SIX)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	10.2
1500	15.1
2000	19.4
2500	23.5
3000	26.9
3500	29.45
4000	30.9
4200	31 (PEAK)

TABLE D (TEN SIX SPECIAL)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	10.5
1500	16.5
2000	22.2
2500	27.5
3000	32
3500	35.5
4000	37.8
4600	39 (PEAK)

TABLE E (COWLEY VAN 14/32)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	13.5
1500	21
2000	27.5
2500	32.3
3000	36
3200	36 (PEAK)

TABLE F (COWLEY FOUR)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	11.9
1500	18.45
2000	24.1
2500	28.9
3000	32.5
3500	35.05
3800	36.2 (P)





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1934 General Data—continued

TABLE G (COWLEY SIX)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	12.7
1500	18.3
2000	23
2500	27.3
3000	30.6
3400	32.5 (PEAK)

TABLE H (OXFORD)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	14
1500	22
2000	28.5
2500	34.3
3000	39
3600	42 (PEAK)

TABLE I (ISIS)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	19
1500	28.5
2000	36.5
2500	43.5
3000	49
3200	49.8 (PEAK)

TABLE J (TWENTY-FIVE)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	27.5
1500	41.8
2000	54.2
2500	64.6
3000	72.1
3400	74 (PEAK)





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1935 General Data (all Models)

DATA	1 EIGHT	2 5-CWT. VAN	3 TEN FOUR
Bore	57 mm. 2.244"	57 mm. 2.244"	63.5 mm.
Stroke	90 mm.	90 mm.	102 mm.
Bore/Stroke Ratio	1.3413	1.3413	1.61
Cubic Capacity	918.6 c.cm.	918.6 c.cm.	1292 c.cm.
R.A.C. Rating	8.057 h.p.	8.057 h.p.	9.99 h.p.
Compression Ratio	5.8-1	5.8-1	5.7-1
Firing Order	1, 3, 4, 2	1, 3, 4, 2	1, 3, 4, 2
Cooling System	Thermo-Syphon	Thermo-Syphon	Thermo-Syphon
Valve Diameter	25 mm.	25 mm.	28 mm.
B.H.P./R.P.M.	See Table A	See Table A	See Table B
Engine Oil Sump Capacity	$\frac{1}{2}$ gallon	$\frac{1}{2}$ gallon	1 gallon
Petrol Tank Capacity	5 $\frac{1}{2}$ gallons	5 $\frac{1}{2}$ gallons	7 gallons
Starter Ratio	8-1	8-1	8.63-1
Teeth on Starter	10	10	11
Teeth on Flywheel	80	80	95
Gearbox Ratios—1st	3.187-1	3.187-1	4-1
2nd	1.81-1	1.81-1	2.36-1
3rd	—	—	1.53-1
Top	1-1	1-1	1-1
Reverse	4.25-1	4.25-1	5.143-1
Back Axle Ratio	5.375-1	5.375-1	5.22-1
Teeth on Drive Gear	8	8	9
Teeth on Crown Wheel	43	43	47
Driving Ratios—1st	17.076-1	17.076-1	20.88-1
2nd	9.72-1	9.72-1	12.32-1
3rd	—	—	7.986-1
Top	5.375-1	5.375-1	5.22-1
Reverse	22.8-1	22.8-1	26.845-1
Cooling System Capacity	15 $\frac{1}{2}$ pints	15 $\frac{1}{2}$ pints	25 pints
Carburettor Needles	S W R	S W R	S W R
S=Standard W=Weak R=Rich	BA M7 MA	BA M7 MA	M6 S M5
Gearbox Oil Capacity	$\frac{3}{4}$ pint	$\frac{3}{4}$ pint	2 pints
Back Axle Oil Capacity	1 $\frac{1}{2}$ pints	1 $\frac{1}{2}$ pints	2 pints
Wheel Size	2.5×17	2.5×18	3×18
Tyre Size	4.5×17	4×18	4.75×18
Tyre Pressures	Front 28 Rear 28	Front 28 Rear 28	Front 30 Rear 30
Minimum Ground Clearance	6 $\frac{1}{8}$ "	6 $\frac{1}{8}$ "	7 $\frac{1}{2}$ "
Weight (Average)	14 cwt. 3 qr.	11 cwt. 2 qr. 18 lb.	21 cwt.
Track	45"	45"	48 $\frac{1}{2}$ "
Wheelbase	90"	90"	95 $\frac{1}{2}$ "
Length Overall	141"	129"	149"
Width Overall	54 $\frac{1}{2}$ "	54 $\frac{1}{2}$ "	61"
Height (Average)	63"	64"	65"
Brake-drum Diameter	8"	8"	10"
Steering Box Ratio	9-1	9-1	11-1
Turning Circles	R.H. 36' 0" L.H. 33' 10"	R.H. 36' 0" L.H. 33' 10"	R.H. 39' 8" L.H. 36' 6"
Battery Type and Capacity	SLTW11E 50AH	SLTW11E 50AH	SLTW11E 50AH Twin
Plug Type	Champion No. J8	Champion No. J8	Champion No.
Idle Gears—Driver	4	4	4
Driven	17	17	15





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1935 General Data—continued

DATA	4 TEN SIX	5 8-10 CWT. VAN	6 TWELVE FOUR	7 FIFTEEN SIX
Bore... ..	57 mm.	69.5 mm.	69.5 mm.	63.5 mm.
Stroke	90 mm.	102 mm.	102 mm.	102 mm.
Bore/Stroke Ratio	1.5789	1.467	1.467	1.6062
Cubic Capacity	1378 c.cm.	1548 c.cm.	1548 c.cm.	1938 c.cm.
R.A.C. Rating	12.08 h.p.	11.98 h.p.	11.98 h.p.	14.99 h.p.
Compression Ratio	5.8-1	5.65-1	5.65-1	5.7-1
Firing Order	1, 5, 3, 6, 2, 4	1, 3, 4, 2	1, 3, 4, 2	1, 5, 3, 6, 2, 4
Cooling System	Thermo-Syphon	Impeller	Thermo-Syphon	Pump and Fan
Valve Diameter	25 mm.	33 mm.	33 mm.	28 mm.
B.H.P./R.P.M.	See Table C	See Table D	See Table E	See Table F
Engine Oil Sump Capacity	1 gallon 1 pint	1 gallon 1 pint	1 gallon 1 pint	1½ gallons
Petrol Tank Capacity	7 gallons	7½ gallons	7½ gallons	10 gallons
Starter Ratio	8.63-1	9.46-1	9.46-1	8.63-1
Teeth on Starter	11	11	11	11
Teeth on Flywheel	95	104	104	95
Gearbox Ratios—1st	4-1	4.0-1	4-1	4.0-1
2nd	2.36-1	2.36-1	2.36-1	2.28-1
3rd	1.53-1	1.53-1	1.53-1	1.479-1
Top	1-1	1-1	1-1	1-1
Reverse	5.143-1	5.143-1	5.143-1	5-1
Back Axle Ratio	5.55-1	5.22-1	5.22-1	5.22-1
Teeth on Drive Gear	9	9	9	9
Teeth on Crown Wheel	50	47	47	47
Driving Ratios—1st	22.2-1	20.88-1	20.88-1	20.88-1
2nd	13.09-1	12.32-1	12.32-1	11.9-1
3rd	8.49-1	7.986-1	7.986-1	7.725-1
Top	5.55-1	5.22-1	5.22-1	5.22-1
Reverse	28.54-1	26.82-1	26.82-1	26.10-1
Cooling System Capacity	26 pints	27½ pints	27½ pints	27 pints
Carburettor Needles	S W R	S W R	S W R	S W R
S=Standard	No. 1 M5 H4	AJ M1 No. 4	AP M6 M5	AE WX R3
W=Weak				
R=Rich				
Gearbox Oil Capacity	2 pints	2 pints	2 pints	2½ pints
Back Axle Oil Capacity	2 pints	2 pints	2 pints	2 pints
Wheel Sizes	3×18	3×19	19×3	3×19
Tyre Sizes	4.75×18	5×19	5×19	5×19
Tyre Pressures	Front 30 Rear 30	Front 32 Rear 32	Front 32 Rear 32	Front 32 Rear 32
Minimum Ground Clearance	7½"	7½"	7½"	6½"
Weight (Average)	21 cwt. 2 qr.	19 cwt. 2 qr. 26 lb.	22 cwt. 3 qr. 16 lb.	23 cwt. 3 qr.
Track	48½"	48½"	48½"	52½"
Wheelbase	101½"	102"	102"	106"
Length Overall	152"	149"	156"	160"
Width Overall	61"	62"	61"	65½"
Height (Average)	65"	71"	67"	67"
Brake-drum Diameter	10"	10"	10"	10"
Steering Box Ratio	11-1	12.64-1	12.64-1	12.64-1
Turning Circles	R.H. 41' 3" L.H. 37' 2"	R.H. 39' 3" L.H. 39' 1"	R.H. 39' 3" L.H. 39' 1"	R.H. 39' 5" L.H. 38' 10"
Battery Type and Capacity	SLTW11E 50AH	SLTW11E 50AH	SLTW11E 50AH	SLTW13E 60AH Twir
Plug Type	Champion J8	Champion No. 7SR	Champion No. 7SR	Champion P
ter Gears—Driver	3	6	6	6
Driven	12	14	14	14





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1935 General Data—continued

DATA	8 OXFORD 16 h.p.	9 OXFORD 20 h.p.	10 ISIS	11 MORRIS "25"
Bore...	65.5 mm.	73 mm.	69 mm.	82 mm.
Stroke ...	102 mm.	102 mm.	110 mm.	110 mm.
Bore/Stroke Ratio ...	1.557	1.3972	1.594	1.3413
Cubic Capacity ...	2062 c.cm.	2561 c.cm.	2468 c.cm.	3485 c.cm.
R.A.C. Rating ...	15.94 h.p.	19.82 h.p.	17.7 h.p.	25.01 h.p.
Compression Ratio ...	5.65—1	5.65—1	5.1—1	5.5—1
Firing Order ...	1, 5, 3, 6, 2, 4	1, 5, 3, 6, 2, 4	1, 5, 3, 6, 2, 4	1, 5, 3, 6, 2, 4
Cooling System ...	Impeller and Fan	Impeller and Fan	Pump and Fan	Impeller and Fan
Valve Diameter ...	30 mm.	33 mm.	33 mm.	35 mm.
B.H.P./R.P.M. ...	See Table G	See Table H	See Table I	See Table J
Engine Oil Sump Capacity ...	1½ gallons	1½ gallons	1½ gallons	2 gallons
Petrol Tank Capacity ...	14 gallons	14 gallons	17 gallons	17 gallons
Starter Ratio ...	9.46—1	9.46—1	10—1	10—1
Teeth on Starter ...	11	11	11	11
Teeth on Flywheel ...	104	104	110	110
Gearbox Ratios—1st ...	4.0—1	4.0—1	4.0—1	4.17—1
2nd ...	2.28—1	2.28—1	2.28—1	2.35—1
3rd ...	1.479—1	1.479—1	1.479—1	1.48—1
Top ...	1—1	1—1	1—1	1—1
Reverse ...	5—1	5—1	5—1	5.36—1
Back Axle Ratio ...	5.27—1	5.27—1 (4.75—1)	4.9—1	4.45—1
Teeth on Drive Gear ...	11	11 (12)	10	11
Teeth on Crown Wheel ...	58	58 (57)	49	49
Driving Ratios—1st ...	21.08—1	21.08—1 (19.0—1)	19.6—1	18.557—1
2nd ...	12.015—1	12.015—1 (10.83—1)	11.177—1	10.458—1
3rd ...	7.794—1	7.794—1 (7.02—1)	7.52—1	6.586—1
Top ...	5.27—1	5.27—1 (4.75—1)	4.9—1	4.45—1
Reverse ...	26.35—1	26.35—1 (23.75—1)	24.5—1	23.852—1
Cooling System Capacity ...	25½ pints	24½ pints	40 pints	40 pints
Carburettor Needles ...	S W R	S W R	S W R	S W R
S=Standard	No. 2 M5 H4	AM S4 S6	S5 S4 S6	OA6 OA7 KW
W=Weak				
R=Rich				
Gearbox Oil Capacity ...	2½ pints	2½ pints	2½ pints	2½ pints
Back Axle Oil Capacity ...	4 pints	4 pints	3 pints	3 pints
Wheel Size ...	3.25×17	3.25×17	3.25×19	3.62×19
Tyre Size ...	5.5×17	5.5×17	5.5×19	6×19
Tyre Pressures ...	Front 30 Rear 30	Front 30 Rear 30	Front 34 Rear 34	Front 34 Rear 34
Minimum Ground Clearance ...	6 3/16"	6 3/16"	8 1/2"	8 1/2"
Weight (Average) ...	28 cwt. 1 qr.	28 cwt. 3 qr.	33 cwt. 0 qr. 10 lb.	36 cwt. 1 qr. 8 lb.
Track ...	56"	56"	56"	56"
Wheelbase ...	114 3/4"	114 3/4"	120"	120"
Length Overall ...	173"	173"	180"	181"
Width Overall ...	70"	70"	71 1/2"	71 1/2"
Height (Average) ...	68"	68"	71"	71"
Brake-drum Diameter ...	12"	12"	14"	14"
Steering Box Ratio ...	13—1	13—1	13—1	16—1
Turning Circles ...	R.H. 43' 2" L.H. 43' 8"	R.H. 43' 2" L.H. 43' 8"	R.H. 49' 3" L.H. 42' 11"	R.H. 43' 1" L.H. 48' 8"
Battery Type and Capacity ...	SLTW13A 60AH	SLTW13A 60AH	STW11A 12 63AH	STW11A 12 63AH
g Plug ...	K.L.G. K1SR	K.L.G. K1SR	K.L.G. K1SR	K.L.G.
meter Gears—Driver ...	6	6	8	
Driven ...	14	14	9	





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1935 General Data—continued

TABLE A (EIGHT)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	7.0
1500	10.7
2000	14
2500	17.5
3000	20.7
3500	22.8
3900	23.5 (PEAK)

TABLE B (TEN FOUR)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	9.5
1500	15
2000	20
2500	24
3000	26.5
3500	27.5 (PEAK)

TABLE C (TEN SIX)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	10
1500	15
2000	19.4
2500	23.5
3000	27
3500	29.5
4000	30.9
4200	31 (PEAK)

TABLE D (8-10 CWT. VAN)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	12
1500	18.5
2000	24
2500	29
3000	32.5
3500	35
3800	36 (PEAK)

TABLE E (COWLEY FOUR)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	12
1500	18.5
2000	24
2500	29
3000	32.5
3500	35
3800	36.2 (PEAK)

TABLE F (FIFTEEN SIX)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	14
1500	20.5
2000	26
2500	30.5
3000	34
3500	35.55 (PEAK)





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1935 General Data—continued

TABLE G (OXFORD 16 H.P.)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	14.25
1500	22
2000	28.5
2500	34.5
3000	39
3600	41.75 (PEAK)

TABLE H (OXFORD 20 H.P.)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	19.5
1500	29.5
2000	38
2500	44
3000	49
3500	51.7
3700	52 (PEAK)

TABLE I (ISIS)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	19
1500	28.5
2000	36.5
2500	43.5
3000	49
3200	49.8 (PEAK)

TABLE J (TWENTY-FIVE)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	27.5
1500	41.8
2000	54.2
2500	64.6
3000	72.1
3400	74 (PEAK)





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General Data, Series I Eight, and All Series II Models

DATA	1 EIGHT	2 5-CWT. VAN	3 TEN-FOUR
Bore	57 mm. 2.244"	57 mm. 2.244"	63.5 mm.
Stroke	90 mm.	90 mm.	102 mm.
Cubic Capacity	918.6 c.cm.	918.6 c.cm.	1292 c.cm.
Compression Ratio	5.8-1	5.8-1	5.9-1
Firing Order	1, 3, 4, 2	1, 3, 4, 2	1, 3, 4, 2
Cooling System	Thermo-Syphon	Thermo-Syphon	Thermo-Syphon
Valve Diameter	25 mm.	25 mm.	28 mm.
B.H.P. R.P.M.	See Table A	See Table A	See Table B
Engine Oil Sump Capacity	5 pints	5 pints	10 pints
Petrol Tank Capacity	5½ gallons	5½ gallons	7 gallons
Starter Ratio	8-1	8-1	8.63-1
Teeth on Starter	10	10	11
Teeth on Flywheel	80	80	95
Gearbox Ratios—1st	3.187-1	3.187-1	3.60-1
2nd	1.81-1	1.81-1	1.72-1
Top	1-1	1-1	1-1
Reverse	4.25-1	4.25-1	4.55-1
Back Axle Ratio	5.375-1	5.375-1	5.375-1
Teeth on Drive Gear	8	8	8
Teeth on Crown Wheel	43	43	43
Driving Ratios—1st	17.13-1	17.13-1	19.35-1
2nd	9.72-1	9.72-1	9.24-1
Top	5.375-1	5.375-1	5.375-1
Reverse	22.8-1	22.8-1	24.46-1
Cooling System Capacity	15½ pints	15½ pints	18 pints
Carburettor Needles	R S W W2	R S W W2	R S W W2
R=Rich.	MA BA M7 RS	MA BA M7 RS	Cold Pipe—
S=Standard.			H1 AR AD HA
W=Weak.			Heated Pipe—
W2=Weaker.			M1 M2 S M9
Gearbox Oil Capacity	¾ pint	¾ pint	1½ pints
Back Axle Oil Capacity	1½ pints	1½ pints	2 pints
Wheel Size	2.5 × 17	2.15 × 18	3 × 18
Tyre Size	4.5 × 17	4 × 18	4.75 × 18
Tyre Pressures	2-Str. Front 24 Rear 24 Sal. Front 28 Rear 28	Front 28 Rear 28	Front 26 Rear 27
Minimum Ground Clearance	6½"	6½"	5½"
Weight (Average)	14 cwt. 3 qr.	11 cwt. 2 qr. 18 lb.	20 cwt.
Track	45"	45"	50"
Wheelbase	90"	90"	100"
Length Overall	141"	129"	165"
Width Overall	54½"	54½"	61"
Height	63"	64"	64"
Brake-drum Diameter	8"	8"	9"
Steering Box Ratio	8-1	8-1	8.63-1
Turning Circles	R.H. 36' 0" L.H. 33' 10"	R.H. 36' 0" L.H. 33' 10"	R.H. 40' 2" L.H. 38' 5"
Battery Type and Capacity	SLTW11E 50AH	SLTW11E 50AH	SLTW11E 50AH Twin
Sparking Plug Type	Champion No. L10	Champion No. L10	Champion No. L10
Speedometer Gears—Driver	4	4	6
Driven	17	17	15





Date of issue: March, 1936

General Data, Series I Eight, and All Series II Models—continued

DATA	4 8-10 CWT. VAN	5 TWELVE-FOUR	6 SIXTEEN-SIX
Bore...	69.5 mm.	69.5 mm.	65.5 mm.
Stroke	102 mm.	102 mm.	102 mm.
Cubic Capacity	1548 c.cm.	1548 c.cm.	2062 c.cm.
Compression Ratio	5.9-1	5.9-1	5.9-1
Firing Order	1, 3, 4, 2	1, 3, 4, 2	1, 5, 3, 6, 2, 4
Cooling System	Thermo-Syphon	Thermo-Syphon	Impeller and Fan
Valve Diameter	33 mm.	33 mm.	30 mm.
B.H.P. R.P.M.	See Table C	See Table C	See Table D
Engine Oil Sump Capacity	1 gallon 1 pint	1 gallon 1 pint	17 pints
Petrol Tank Capacity	7 gallons	7 gallons	10 gallons
Starter Ratio	9.46-1	9.46-1	9.46-1
Teeth on Starter...	11	11	11
Teeth on Flywheel	104	104	104
Gearbox Ratios—1st	3.60-1	3.60-1	3.39-1
2nd	1.72-1	1.72-1	1.675-1
Top	1-1	1-1	1-1
Reverse	4.55-1	4.55-1	4.30-1
Back Axle Ratio	5.375-1	4.875-1	5.273-1
Teeth on Drive Gear	8	8	11
Teeth on Crown Wheel	43	39	58
Driving Ratios—1st	19.35-1	17.55-1	17.88-1
2nd	9.25-1	8.38-1	8.83-1
Top	5.375-1	4.875-1	5.273-1
Reverse	24.45-1	22.18-1	22.67-1
Cooling System Capacity	16½ pints	20 pints	25 pints
Carburettor Needles	R S W W2	R S W W2	R S W W2
R—Rich.	Cold Pipe—H1	AR AD HA	H1 AR AD HA
S—Standard.	Heated Pipe—M1	M2 S M9	M1 M2 S M9
W—Weak.			
W2—Weaker.			
Gearbox Oil Capacity	1½ pints	1½ pints	2 pints
Back Axle Oil Capacity	2 pints	2 pints	2 pints
Wheel Size	3×18	3×18	3.62×17
Tyre Size	5×18	4.75×18	6×17
Tyre Pressures	Front 24 Rear 36	Front 26 Rear 27	Front 27 Rear 30
Minimum Ground Clearance	7"	5½"	6½"
Weight (Average)	18 cwt. 3 qr. 8 lb.	21 cwt.	27 cwt. 2 qr.
Track	Front 50" Rear 54"	50"	56"
Wheelbase	90"	100"	117"
Length Overall	155"	165"	187"
Width Overall	66"	61"	70"
Height (Average)	73"	64"	69"
Brake-drum Diameter	9"	9"	12"
Steering Box Ratio	9.46-1	9.46-1	9.46-1
Turning Circles	R.H. 38' 0" L.H. 41' 6"	R.H. 40' 2" L.H. 38' 5"	R.H. 42' 6" L.H. 44' 6"
Battery Type and Capacity	SLTW11A 50AH (12-v.)	SLTW11E 50AH Twin	SLTW13A 60AH (12-v.)
Sparking Plug Type	Champion No. L10	Champion No. L10	Champion No. L10
Speedometer Gears—Driver	4	7	6
Driven	16	16	14





Date of issue: March, 1936

General Data, Series I Eight, and All Series II Models—continued

DATA	7 EIGHTEEN-SIX	8 TWENTY-ONE-SIX	9 TWENTY-FIVE-SIX
Bore...	69 mm.	75 mm.	82 mm.
Stroke ...	102 mm.	110 mm.	110 mm.
Cubic Capacity ...	2288.4 c.cm.	2915.8 c.cm.	3485 c.cm.
Compression Ratio ...	5.9-1	5.9-1	5.9-1
Firing Order ...	1, 5, 3, 6, 2, 4	1, 5, 3, 6, 2, 4	1, 5, 3, 6, 2, 4
Cooling System ...	Impeller and Fan	Impeller and Fan	Impeller and Fan
Valve Diameter ...	30 mm.	35 mm.	35 mm.
B.H.P./R.P.M. ...	See Table E	See Table F	See Table G
Engine Oil Sump Capacity ...	17 pints	18 pints	18 pints
Petrol Tank Capacity ...	10 gallons	13 gallons	13 gallons
Starter Ratio ...	9.46-1	10-1	10-1
Teeth on Starter ...	11	11	11
Teeth on Flywheel ...	104	110	110
Gearbox Ratios—1st ...	3.39-1	3.39-1	3.39-1
2nd ...	1.675-1	1.675-1	1.675-1
Top ...	1-1	1-1	1-1
Reverse ...	4.30-1	4.30-1	4.30-1
Back Axle Ratio ...	4.75-1	4.454-1	4.454-1
Teeth on Drive Gear ...	12	11	11
Teeth on Crown Wheel ...	57	49	49
Driving Ratios—1st ...	16.10-1	15.099-1	15.099-1
2nd ...	7.96-1	7.46-1	7.46-1
Top ...	4.75-1	4.454-1	4.454-1
Reverse ...	20.43-1	19.15-1	19.15-1
Cooling System Capacity ...	25 pints	34 pints	32 pints
Carburettor Needles ...	R S W W2	R S W W2	R S W W2
R—Rich.	RLB BE No. 6 AO	RG RH KW1 RF	RG RH KW1
S—Standard.			
W—Weak.			
W2—Weaker.			
Gearbox Oil Capacity ...	2 pints	2 pints	2 pints
Back Axle Oil Capacity ...	2 pints	2 pints	2 pints
Wheel Size ...	3.62 × 17	3.62 × 17	3.62 × 17
Tyre Size ...	6 × 17	6 × 17	6 × 17
Tyre Pressures ...	Front 27 Rear 30	Front 27 Rear 30	Front 27 Rear 30
Minimum Ground Clearance ...	6 $\frac{1}{4}$ "	6.31"	6.31"
Weight (Average) ...	27 cwt. 2 qr.	29 cwt. 1 qr.	29 cwt. 1 qr.
Track ...	56"	56"	56"
Wheelbase ...	117"	121 $\frac{1}{2}$ "	121 $\frac{1}{2}$ "
Length Overall ...	187"	191"	191"
Width Overall ...	70"	70"	70"
Height (Average) ...	69"	69"	69"
Brake-drum Diameter ...	12"	12"	12"
Steering Box Ratio ...	9.46-1	10-1	10-1
Turning Circles ...	R.H. 42' 6" L.H. 44' 6"	R.H. 45' L.H. 43' 6"	R.H. 45' L.H. 43' 6"
Battery Type and Capacity ...	SLTW13A 60AH (12-v.)	SLTW13A 60AH (12-v.)	SLTW13A 60AH (12-v.)
Sparking Plug ...	Champion No. L10	Champion No. L10	Champion No. L10
Speedometer Gears—Driver ...	8	7	7
Driven ...	17	14	1





Date of issue: March, 1936

General Data—*continued*

TABLE A (EIGHT SERIES I)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	7.0
1500	10.8
2000	14
2500	17.6
3000	20.7
3500	22.8
3900	23.5 (PEAK)

TABLE B (TEN-FOUR SERIES II)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	10
1500	15.2
2000	20.6
2500	25.2
3000	29
3500	30 (PEAK)

TABLE C (TWELVE-FOUR SERIES II)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	12.3
1500	19
2000	25
2500	30
3000	33
3500	34 (PEAK)

TABLE D (SIXTEEN SERIES II)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	15.5
1500	23.5
2000	31.8
2500	38.9
3000	44.5
3500	47.8 (PEAK)





Date of issue : March 1936

General Data—continued

TABLE E (EIGHTEEN SERIES II)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	18
1500	27.7
2000	37
2500	45
3000	52
3500	55.2
3700	55.8 (PEAK)

TABLE F (TWENTY-ONE SERIES II)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	22.5
1500	34
2000	44.3
2500	53.8
3000	62.2
3500	69
3800	72 (PEAK)

TABLE G (TWENTY-FIVE SERIES II)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	27
1500	41
2000	54.2
2500	65.5
3000	74.2
3500	79
3700	79.2 (PEAK)





Date of issue: March, 1937

General Data, Series I Eight, and All Series II Models

DATA	1 EIGHT	2 5-CWT. VAN	3 TEN-FOUR
Bore	57 mm. 2.244"	57 mm. 2.244"	63.5 mm.
Stroke	90 mm.	90 mm.	102 mm.
Cubic Capacity	918.6 c.cm.	918.6 c.cm.	1292 c.cm.
Compression Ratio	5.8-1	5.8-1	5.9-1
Firing Order	1, 3, 4, 2	1, 3, 4, 2	1, 3, 4, 2
Cooling System	Thermo-Syphon	Thermo-Syphon	Thermo-Syphon
Valve Diameter	25 mm.	25 mm.	28 mm.
B.H.P./R.P.M.	See Table A	See Table A	See Table B
Engine Oil Sump Capacity	5 pints	5 pints	10 pints
Petrol Tank Capacity	5½ gallons	5½ gallons	7 gallons
Starter Ratio	8.88-1	8.88-1	8.63-1
Teeth on Starter	9	9	11
Teeth on Flywheel	80	80	95
Gearbox Ratios—1st	3.187-1	3.187-1	4.00-1
2nd	1.81-1	1.81-1	2.363-1
3rd			1.53-1
Top	1-1	1-1	1.00-1
Reverse	4.25-1	4.25-1	5.15-1
Back Axle Ratio	5.375-1	5.375-1	5.375-1
Teeth on Drive Gear	8	8	8
Teeth on Crown Wheel	43	43	43
Driving Ratios—1st	17.13-1	17.13-1	21.5-1
2nd	9.72-1	9.72-1	12.70-1
3rd			8.223-1
Top	5.375-1	5.375-1	5.375-1
Reverse	22.8-1	22.8-1	27.68-1
Cooling System Capacity	15½ pints	15½ pints	18 pints
Carburettor Needles	R S W W2	R S W W2	R S W W2
R=Rich.	(Without Silencer) MA	BA M7 RS	MA BA M7 RS E3 AT BT BS
S=Standard.	(With Silencer) M5	BD M7 PJ	
W=Weak.			
W2=Weaker.			
Gearbox Oil Capacity	½ pint	½ pint	1½ pints
Back Axle Oil Capacity	1½ pints	1½ pints	2 pints
Wheel Size	2.5 x 17	2.15 x 18	3.50 x 16
Tyre Size	4.5 x 17	4 x 18	5.50 x 16
Tyre Pressures	2-Str. Front 24 Rear 24 Sal. Front 28 Rear 28	Front 28 Rear 28	Front 23 Rear 26
Minimum Ground Clearance	6½"	6½"	5½"
Weight (Average)	14 cwt. 3 qr.	11 cwt. 2 qr. 18 lb.	20 cwt.
Track	45"	45"	50"
Wheelbase	90"	90"	100"
Length Overall	141"	129"	165"
Width Overall	54½"	54½"	61"
Height	63"	64"	64"
Brake-drum Diameter	8"	8"	9"
Steering Box Ratio	8-1	8-1	8.63-1
Turning Circles	R.H. 36' 0" L.H. 33' 10"	R.H. 36' 0" L.H. 33' 10"	R.H. 40' 2" L.H. 38' 5"
Battery Type and Capacity	SLTW11E 50AH	SLTW11E 50AH	SLTW11E 50AH Twin
Plug Type	Champion No. L10	Champion No. L10	Champion No.
ter Gears—Driver	4	4	5
Driven	16	16	12





Date of issue: March, 1937

General Data, Series I Eight, and All Series II Models—continued

DATA	4 8-10 CWT. VAN	5 TWELVE-FOUR
Bore	69.5 mm.	69.5 mm.
Stroke	102 mm.	102 mm.
Cubic Capacity	1548 c.cm.	1548 c.cm.
Compression Ratio	5.9-1	5.9-1
Firing Order	1, 3, 4, 2	1, 3, 4, 2
Cooling System	Thermo-Syphon	Thermo-Syphon
Valve Diameter	33 mm.	33 mm.
B.H.P. R.P.M.	See Table C	See Table C
Engine Oil Sump Capacity	1 gallon 3 pints	1 gallon 1 pint
Petrol Tank Capacity	7 gallons	7 gallons
Starter Ratio	9.46-1	9.46-1
Teeth on Starter	11	11
Teeth on Flywheel	104	104
Gearbox Ratios—1st	3.60-1	4.00-1
2nd	1.72-1	2.363-1
3rd	—	1.53-1
Top	1-1	1-1
Reverse	4.55-1	5.15-1
Back Axle Ratio	5.375-1	4.875-1
Teeth on Drive Gear	8	8
Teeth on Crown Wheel	43	39
Driving Ratios—1st	19.35-1	19.5-1
2nd	9.25-1	11.519-1
3rd	—	7.458-1
Top	5.375-1	4.875-1
Reverse	24.45-1	25.106-1
Cooling System Capacity	16½ pints	20 pints
Carburettor Needles	R S W W2	R S W W2
R—Rich.	M1 M2 S M9	M1 M2 S M9
S—Standard.		
W—Weak.		
W2—Weaker.		
Gearbox Oil Capacity	1½ pints	1½ pints
Back Axle Oil Capacity	2 pints	2 pints
Wheel Size	3 × 18	3.50 × 16
Tyre Size	5 × 18	5.50 × 16
Tyre Pressures	Front 24 Rear 36	Front 23 Rear 26
Minimum Ground Clearance	7"	5"
Weight (Average)	18 cwt. 3 qr. 8 lb.	21 cwt.
Track	Front 50" Rear 54"	50"
Wheelbase	90"	100"
Length Overall	155	165
Width Overall	66"	61"
Height (Average)	73"	64"
Brake-drum Diameter	9"	9"
Steering Box Ratio	11-1	9.46-1
Turning Circles	R.H. 38' 0" L.H. 41' 6"	R.H. 40' 2" L.H. 38' 5"
Battery Type and Capacity	SLTW11A 50AH (12-v.)	SLTW11E 50AH Twin
Spark Plug Type	Champion No. L10	Champion No. L10
Gearbox Gears—Driver	4	7
Driven	15	15





Date of issue: March, 1937

General Data, Series I Eight, and All Series II Models—continued

DATA	6 FOURTEEN-SIX	7 EIGHTEEN-SIX	8 TWENTY-FIVE-SIX
Bore	61.5 mm.	69 mm.	82 mm.
Stroke	102 mm.	102 mm.	110 mm.
Cubic Capacity	1818.094 c.cm.	2288.4 c.cm.	3485 c.cm.
Compression Ratio	5.9-1	5.9-1	5.9-1
Firing Order	1, 5, 3, 6, 2, 4	1, 5, 3, 6, 2, 4	1, 5, 3, 6, 2, 4
Cooling System	Impeller and Fan	Impeller and Fan	Impeller and Fan
Valve Diameter	30 mm.	30 mm.	35 mm.
B.H.P. R.P.M.	See Table D	See Table E	See Table G
Engine Oil Sump Capacity	13 pints	17 pints	18 pints
Petrol Tank Capacity	8½ gallons	10 gallons	13 gallons
Starter Ratio	9.46-1	9.46-1	10-1
Teeth on Starter	11	11	11
Teeth on Flywheel	104	104	110
Gearbox Ratios—1st	4.08-1	4.08-1	3.39-1
2nd	2.28-1	2.28-1	1.675-1
3rd	1.48-1	1.48-1	
Top	1.00-1	1-1	1-1
Reverse	5.097-1	5.097-1	4.30-1
Back Axle Ratio	5.33-1	4.75-1	4.454-1
Teeth on Drive Gear	9	12	11
Teeth on Crown Wheel	48	57	49
Driving Ratios—1st	21.75-1	19.38-1	15.099-1
2nd	12.15-1	10.83-1	7.46-1
3rd	7.89-1	7.03-1	
Top	5.33-1	4.75-1	4.454-1
Reverse	27.17-1	24.21-1	19.15-1
Cooling System Capacity	24½ pints	25 pints	32 pints
Carburettor Needles	R S W W2	R S W W2	R S W W2
R Rich.	RO AY JM No. 4	RLB BE No. 6 AOJ	KWR RJ RK RL
S Standard.			
W Weak.			
W2 Weaker.			
Gearbox Oil Capacity	2 pints	2 pints	2 pints
Back Axle Oil Capacity	2½ pints	2 pints	2 pints
Wheel Size	4.00 16	4.50 16	4.50 16
Tyre Size	5.75 16	6.50 16	7.00 16
Tyre Pressures	Front 26 Rear 26	Front 23 Rear 26	Front 19 Rear 25
Minimum Ground Clearance	6½	6½	6.31
Weight (Average)	25 cwt.	27 cwt. 2 qr.	29 cwt. 1 qr.
Track	56	56	56
Wheelbase	106	117	121½
Length Overall	168	187	191
Width Overall	67	70	70
Height (Average)	65	69	69
Brake-drum Diameter	10	12	12
Steering Box Ratio	14-1	9.46-1	10-1
Turning Circles	R.H. 39' 0" L.H. 37' 2"	R.H. 42' 6" L.H. 44' 6"	R.H. 45' 0" L.H. 43' 6"
Battery Type and Capacity	SLTW11E 50AH Twin	SLTW13A 60AH (12-v.)	SLTW13A 60AH (12-v.)
Plug Type	Champion No. L10	Champion No. L10	Champion
Ignition Gears—Driver		7	9
Driven		15	17





Date of issue: March, 1937

General Data—continued

TABLE A (EIGHT SERIES I)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	7.0
1500	10.8
2000	14
2500	17.6
3000	20.7
3500	22.8
3900	23.5 (PEAK)

TABLE B (TEN-FOUR SERIES II)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	10
1500	15.2
2000	20.6
2500	25.2
3000	29
3500	30 (PEAK)

TABLE C (TWELVE-FOUR SERIES II)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	12.3
1500	19
2000	25
2500	30
3000	33
3500	34 (PEAK)

TABLE D (FOURTEEN SERIES II)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	12.5
1500	19.75
2000	26.25
2500	32.5
3000	37.90
4000	43.75 (PEAK)





Date of issue: March, 1937

General Data—*continued*

TABLE E (EIGHTEEN SERIES II)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	18
1500	27.7
2000	37
2500	45
3000	52
3500	55.2
3700	55.8 (PEAK)

TABLE G (TWENTY-FIVE SERIES II)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	27
1500	41
2000	54.2
2500	65.5
3000	74.2
3500	79
3700	79.2 (PEAK)





Date of issue: December, 1937

General Data, Series II Eight, and All Series III Models

DATA	1 EIGHT	2 5-CWT. VAN	3 TEN-FOUR								
Bore	57 mm. 2.244	57 mm. 2.244	63.5 mm.								
Stroke	90 mm.	90 mm.	102 mm.								
Cubic Capacity	918.6 c.cm.	918.6 c.cm.	1292 c.cm.								
Compression Ratio	5.8-1	5.8-1	5.85 6-1								
Firing Order	1, 3, 4, 2	1, 3, 4, 2	1, 3, 4, 2								
Cooling System	Thermo-Syphon	Thermo-Syphon	Impeller and Fan								
Valve Diameter	25 mm.	25 mm.	In. 30.5 mm. Ex. 26 mm.								
B.H.P. R.P.M.	See Table A	See Table A	See Table B								
Engine Oil Sump Capacity	5 pints	5 pints	10 pints								
Petrol Tank Capacity	5½ gallons	5½ gallons	7 gallons								
Starter Ratio	8.88-1	8.88-1	9.5-1								
Teeth on Starter	9	9	10								
Teeth on Flywheel	80	80	95								
Gearbox Ratios—1st	3.187-1	3.187-1	4.00-1								
2nd	1.81-1	1.81-1	2.363-1								
3rd	—	—	1.53-1								
Top	1-1	1-1	1.00-1								
Reverse	4.25-1	4.25-1	5.15-1								
Back Axle Ratio	From Chassis No. 183066 5.286-1	From Chassis No. 163128 5.286-1	5.25-1								
Teeth on Drive Gear	7	7	8								
Teeth on Crown Wheel	37	37	42								
Driving Ratios—1st	16.84-1	16.84-1	21.1-1								
2nd	9.56-1	9.56-1	12.406-1								
3rd	—	—	8.033-1								
Top	5.286-1	5.286-1	5.25-1								
Reverse	22.31-1	22.31-1	27.037-1								
Cooling System Capacity	15½ pints	15½ pints	18 pints								
Carburettor Needles	R S W W2	R S W W2	R S W								
R—Rich.	M6	BD	M7	PI	MA	BA	M7	RS	DK	DJ	DH
S—Standard.											
W—Weak.											
W2—Weaker.											
Gearbox Oil Capacity	½ pint	½ pint	2 pints								
Back Axle Oil Capacity	1½ pints	1½ pints	2 pints								
Wheel Size	2.5 x 17	2.15 18	3.50 16								
Tyre Size	4.5 17	4 18	5.50 16								
Tyre Pressures	Front 26 Rear 26	Front 28 Rear 28	Front 24 Rear 26								
Minimum Ground Clearance	6½"	6½"	4½"								
Weight (Average)	14 cwt. 3 qr. (licensing)	11 cwt. 2 qr. 18 lb.	21 cwt.								
Track	45"	45"	48½"								
Wheelbase	90"	90"	100"								
Length Overall	142"	129"	160"								
Width Overall	54½"	54½"	61"								
Height	64"	64"	64"								
Brake-drum Diameter	8"	8"	9"								
Steering Box Ratio	9-1	9-1	11-1								
Turning Circles	R.H. 35' 3" L.H. 34' 3"	R.H. 36' 0" L.H. 33' 10"	R.H. 41' L.H. 38' 4"								
Battery Type and Capacity	SLTW11E 50AH	SLTW11E 50AH	SLTW11E 50AH Twin								
Plug Type	Champion No. L10	Champion No. L10	Champion 1								
Number of Gears—Driver	4	4	6								
Driven	16	15	15								





Date of issue: December, 1937

General Data, Series II Eight, and All Series III Models *continued*

DATA	4 8-10 CWT. VAN	5 TWELVE-FOUR
Bore	69.5 mm.	69.5 mm.
Stroke	102 mm.	102 mm.
Cubic Capacity	1548 c.cm.	1547.83 c.cm.
Compression Ratio	5.9-1	5.85 6-1
Firing Order	1, 3, 4, 2	1, 3, 4, 2
Cooling System	Thermo-Syphon	Impeller and Fan
Valve Diameter	33 mm.	In. 32 mm. Ex. 28 mm.
B.H.P. R.P.M.	See Table D	See Table C
Engine Oil Sump Capacity	1 gallon 3 pints	1 gallon 3 pints
Petrol Tank Capacity	7 gallons	8½ gallons
Starter Ratio	9.46-1	10.4-1
Teeth on Starter	11	10
Teeth on Flywheel	104	104
Gearbox Ratios—1st... ..	3.60-1	3.975-1
2nd	1.72-1	2.29-1
3rd	—	1.48-1
Top	1-1	1-1
Reverse	4.55-1	3.975-1
Back Axle Ratio	5.375-1	5.25-1
Teeth on Drive Gear	8	8
Teeth on Crown Wheel	43	42
Driving Ratios—1st	19.35-1	20.869-1
2nd... ..	9.25-1	12.023-1
3rd	—	7.770-1
Top	5.375-1	5.25-1
Reverse	24.45-1	20.869-1
Cooling System Capacity	16½ pints	22 pints
Carburettor Needles... ..	R S W W2	R S W W2
R Rich.	M1 AC HA M9	No. 3 V2 V3 M9
S Standard.		
W Weak.		
W2—Weaker.		
Gearbox Oil Capacity	1½ pints	1½ pints
Back Axle Oil Capacity	2 pints	2 pints
Wheel Size	3 × 18	3.50 16
Tyre Size	5 × 18	5.50 16
Tyre Pressures	Front 24 Rear 36	Front 22 Rear 26
Minimum Ground Clearance	7"	6½"
Weight (Average)(licensing) 18 cwt. 3 qr. 8 lb.	22 cwt.
Track	Front 50" Rear 54"	50"
Wheelbase	90"	96"
Length Overall	155"	160"
Width Overall... ..	66"	60"
Height (Average)	73"	66"
Brake-drum Diameter	9"	9"
Steering Box Ratio	11-1	14-1
Turning Circles	R.H. 38' 0" L.H. 41' 6"	R.H. 37' 3" L.H. 38' 8"
Battery Type and Capacity	SLTW11A 50AH (12-v.)	SLTW11A 50AH (12-v.)
Sparkign Plug Type	Champion No. L10	Champion No. L10
Number of Gears—Driver	4	6
Driven	15	15





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General Data, Series II Eight, and All Series III Models—continued

DATA	6				7			
	FOURTEEN-SIX				TWENTY-FIVE-SIX			
Bore	61.5 mm.				82 mm.			
Stroke	102 mm.				110 mm.			
Cubic Capacity	1818.094 c.cm.				3485 c.cm.			
Compression Ratio	6.2 6.4-1				5.9 6-1			
Firing Order	1, 5, 3, 6, 2, 4				1, 5, 3, 6, 2, 4			
Cooling System	Impeller and Fan				Impeller and Fan			
Valve Diameter	In. 30.5 mm.		Ex. 26 mm.		In. 38 mm.		Ex. 34 mm.	
B.H.P. R.P.M.	See Table E				See Table G			
Engine Oil Sump Capacity	13 pints				18 pints			
Petrol Tank Capacity	8½ gallons				13½ gallons			
Starter Ratio	9.46-1				10-1			
Teeth on Starter	11				11			
Teeth on Flywheel	104				110			
Gearbox Ratios—1st... ..	4-1				3.39-1			
2nd	2.36-1				1.675-1			
3rd	1.53-1				—			
Top	1.00-1				1-1			
Reverse	5.15-1				4.30-1			
Back Axle Ratio	5.33-1				4.454-1			
Teeth on Drive Gear	9				11			
Teeth on Crown Wheel	48				49			
Driving Ratios—1st	21.332-1				15.099-1			
2nd... ..	12.602-1				7.46-1			
3rd	8.159-1				—			
Top	5.33-1				4.454-1			
Reverse	27.465-1				19.15-1			
Cooling System Capacity	25½ pints				33 pints			
Carburettor Needles... ..	R	S	W	W2	R	S	W	W2
R—Rich.	AQ	GA	No. 61	No. 62	DG	DF	OA6	OA7
S—Standard.								
W—Weak.								
W2—Weaker.								
Gearbox Oil Capacity	2 pints				2 pints			
Back Axle Oil Capacity	2½ pints				2 pints			
Wheel Size	4.00 · 16				4.50 16			
Tyre Size	5.75 · 16				7.00 16			
Tyre Pressures	Front 26		Rear 26		Front 20		Rear 26	
Minimum Ground Clearance	5½"				6"			
Weight (Average)	26 cwt.				32 cwt.			
Track	56"				56"			
Wheelbase	106"				121"			
Length Overall	168"				192"			
Width Overall... ..	67"				70"			
Height (Average)	65"				70"			
Brake-drum Diameter	10"				12"			
Steering Box Ratio	14-1				14-1			
Turning Circles	R.H. 41' 5"		L.H. 39' 2"		R.H. 48'		L.H. 44' 9"	
Battery Type and Capacity	SLTW11E		50AH		SLTW13A		60AH	
	Twin				(12-v.)			
Sparking Plug Type	Champion No. L10				Champion No. L10			
Steering Gears—Driver	4				9			
Driven	9				17			





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General Data, Series II Eight, and All Series III Models—continued

TABLE A EIGHT (SERIES II)

NO. OF ENGINE REVOLUTIONS	BRAKE HORSE-POWER.
1000	7.0
1500	10.7
2000	14
2500	17.5
3000	20.7
3500	22.8
3900	23.5 (PEAK)

TABLE B (TEN-FOUR SERIES III)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	9.75
1500	15.5
2000	21.5
2500	26.75
3000	31.5
3500	34.5
4000	36.75
4200	37 (PEAK)

TABLE C (TWELVE-FOUR SERIES III)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	12
1500	19
2000	25.5
2500	30.75
3000	36
3500	38.75
4000	40.75 (PEAK)

TABLE D (8-10 CWT. VAN SERIES II)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	12.3
1500	19
2000	25.5
2500	30
3000	33
3500	34 (PEAK)





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General Data, Series II Eight, and All Series III Models —continued

TABLE E (FOURTEEN SERIES III)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	12.75
1500	19.75
2000	26.75
2500	34.25
3000	40.5
3500	45.5
4000	50
4200	51.5 (PEAK)

TABLE G (TWENTY-FIVE SERIES III)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	27.75
1500	43
2000	58.25
2500	72.75
3000	84.25
3500	93
3800	95.5 (PEAK)





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General Data, Series E Eight, Series M Ten and Series III Models

DATA	1 EIGHT	2 5-CWT. VAN	3 TEN-FOUR
Bore	57 mm. 2.244	57 mm. 2.244	63.5 mm.
Stroke	90 mm.	90 mm.	90 mm.
Cubic Capacity	918.6 c.cm.	918.6 c.cm.	1140 c.cm.
Compression Ratio	6.5.6.7-1	5.8-1	6.5.6.7-1
Firing Order	1, 3, 4, 2	1, 3, 4, 2	1, 3, 4, 2
Cooling System	Thermo-Syphon	Thermo-Syphon	Impeller and Fan
Valve Diameter	25 mm.	25 mm.	In. 30 mm. Ex. 26 mm.
B.H.P./R.P.M.	See Table A	See Table B	See Table C
Engine Oil Sump Capacity	6 pints	5 pints	5½ pints
Petrol Tank Capacity	5½ gallons	5½ gallons	7 gallons
Starter Ratio	8.88-1	8.88-1	9.3-1
Teeth on Starter	9	9	10
Teeth on Flywheel	80	80	92
Gearbox Ratios—1st	3.95-1	3.187-1	3.807-1
2nd	2.3-1	1.81-1	2.253-1
3rd	1.54-1		1.596-1
Top	1-1	1-1	1.00-1
Reverse	3.95-1	4.25-1	3.807-1
Back Axle Ratio	5.286-1	5.286-1	5.286-1
Teeth on Drive Gear	7	7	7
Teeth on Crown Wheel	37	37	37
Driving Ratios—1st	20.87-1	16.84-1	20.087-1
2nd	12.156-1	9.56-1	11.894-1
3rd	8.139-1		7.929-1
Top	5.286-1	5.286-1	5.286-1
Reverse	20.876-1	22.46-1	20.087-1
Cooling System Capacity	1 gall. 7 pints	15½ pints	1 gall. 7 pints
Carburettor Needles	R S W W2	R S W W2	R S W VW
R—Rich.	M9 EK MOW MW	MA BA M7 RS	3 EF AD V3
S—Standard.			
W—Weak.			
W2—Weaker.			
Gearbox Oil Capacity	1½ pints	1 pint	1½ pints
Back Axle Oil Capacity	1½ pints	1½ pints	1 pints
Wheel Size	2.5 × 17	2.15 × 18	3 × 16
Tyre Size	4.5 × 17	4 × 18	5 × 16
Tyre Pressures	Front 24 Rear 27	Front 22 Rear 26	Front 26 Rear 26
Minimum Ground Clearance	6"	6"	6
Weight (Average)	15 cwt. 24 lb.	(licensing) 11 cwt. 2 qr. 18 lb.	18 cwt. 24 lb.
Track	44½ F. 46½ R.	45	50
Wheelbase	89"	90"	94
Length Overall	144"	129"	158"
Width Overall	57"	54½"	61"
Height	62"	64"	65"
Brake-drum Diameter	8"	8"	9"
Steering Box Ratio	11-1	9-1	14-1
Turning Circles	R.H. 35' 11" L.H. 32' 7"	R.H. 36' 0" L.H. 33' 10"	R.H. 39' L.H. 37' 3"
Battery Type and Capacity	STXW9E	SLTW11E 50AH	50AH BNW9A
Spark Plug Type	Champion No. L10	Champion No. L10	Champion No. L10
Clutch Gears—Driver	4	4	6
Driven	16	15	15





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General Data, Series E Eight, Series M Ten and Series III Models—continued

DATA	4 8-10 CWT. VAN	5 TWELVE-FOUR
Bore	69.5 mm.	69.5 mm.
Stroke	102 mm.	102 mm.
Cubic Capacity	1548 c.cm.	1547.83 c.cm.
Compression Ratio	5.9-1	5.85 6-1
Firing Order	1, 3, 4, 2	1, 3, 4, 2
Cooling System	Thermo-Syphon	Impeller and Fan
Valve Diameter	33 mm.	In. 32 mm. Ex. 28 mm.
B.H.P./R.P.M.	See Table E	See Table D
Engine Oil Sump Capacity	1 gallon 3 pints	1 gallon 3 pints
Petrol Tank Capacity	7 gallons	8½ gallons
Starter Ratio	9.46-1	10.4-1
Teeth on Starter	11	10
Teeth on Flywheel	104	104
Gearbox Ratios—1st	3.60-1	3.975-1
2nd	1.72-1	2.29-1
3rd	—	1.48-1
Top	1-1	1-1
Reverse	4.51-1	3.975-1
Back Axle Ratio	5.375-1	5.25-1
Teeth on Drive Gear	8	8
Teeth on Crown Wheel	43	42
Driving Ratios—1st	19.35-1	20.869-1
2nd	9.25-1	12.023-1
3rd	—	7.770-1
Top	5.375-1	5.25-1
Reverse	24.25-1	20.869-1
Cooling System Capacity	16½ pints	22 pints
Carburettor Needles	R S W W2	R S W W2
R=Rich.	M1 AC HA M9	No. 3 V2 V3 M9
S=Standard.		
W=Weak.		
W2=Weaker.		
Gearbox Oil Capacity	1½ pints	1½ pints
Back Axle Oil Capacity	2 pints	2 pints
Wheel Size	3×18	3.50×16
Tyre Size	5×18	5.50×16
Tyre Pressures	Front 24 Rear 36	Front 22 Rear 26
Minimum Ground Clearance	7"	6½"
Weight (Average)	(licensing) 18 cwt. 3 qr. 8 lb.	22 cwt.
Track	Front 50" Rear 54"	50"
Wheelbase	90"	96"
Length Overall	155"	160"
Width Overall	66"	60"
Height Average	73"	66"
Brake-drum Diameter	9"	9"
Steering Box Ratio	11-1	14-1
Turning Circles	R.H. 38' 0" L.H. 41' 6"	R.H. 37' 3½" L.H. 38' 8"
Battery Type and Capacity	SLTW11A 50AH (12-v.)	SLTW11A 50AH (12-v.)
Sparking Plug Type	Champion No. L10	Champion No. L10
Speedometer Gears—Driver	4	6
Driven	15	15





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General Data, Series E Eight, Series M Ten and Series III Models—continued

DATA	6				7				
	FOURTEEN-SIX				TWENTY-FIVE-SIX				
Bore	61.5 mm.				82 mm.				
Stroke	102 mm.				110 mm.				
Cubic Capacity	1818.094 c.cm.				3485 c.cm.				
Compression Ratio	6.2/6.4-1				5.9 6-1				
Firing Order	1, 5, 3, 6, 2, 4				1, 5, 3, 6, 2, 4				
Cooling System	Impeller and Fan				Impeller and Fan				
Valve Diameter	In. 30.5 mm.		Ex. 26 mm.		In. 38 mm.		Ex. 34 mm.		
B.H.P. R.P.M.	See Table G				See Table H				
Engine Oil Sump Capacity	13 pints				18 pints				
Petrol Tank Capacity	8½ gallons				13 gallons				
Starter Ratio	9.46-1				10-1				
Teeth on Starter	11				11				
Teeth on Flywheel	104				110				
Gearbox Ratios—1st	4-1				3.39-1				
	2nd	2.36-1				1.675-1			
	3rd	1.53-1				—			
	Top	1.00-1				1-1			
	Reverse	5.15-1				4.30-1			
Back Axle Ratio	5.33-1				4.454-1				
Teeth on Drive Gear	9				11				
Teeth on Crown Wheel	48				49				
Driving Ratios—1st	21.332-1				15.099-1				
	2nd	12.602-1				7.46-1			
	3rd	8.159-1				—			
	Top	5.33-1				4.454-1			
	Reverse	27.465-1				19.15-1			
Cooling System Capacity	25½ pints				32½ pints				
Carburettor Needles	R	S	W	W2	R	S	W	W2	
R—Rich.	AQ	GA	No. 61	No. 62	DG	DF	OA6	OA7	
S—Standard.									
W—Weak.									
W2—Weaker.									
Gearbox Oil Capacity	2 pints				2 pints				
Back Axle Oil Capacity	2½ pints				2 pints				
Wheel Size	4.00 × 16				4.50 × 16				
Tyre Size	5.75 × 16				7.00 × 16				
Tyre Pressures	Front 24		Rear 26		Front 20		Rear 26		
Minimum Ground Clearance	5⅞"				6½"				
Weight (Average)	26 cwt.				32 cwt.				
Track	56"				56"				
Wheelbase	106"				121½"				
Length Overall	169"				192"				
Width Overall	67"				70"				
Height (Average)	65"				70"				
Brake-drum Diameter	10"				12"				
Steering Box Ratio	14-1				14-1				
Turning Circles	R.H.		41' 5"		R.H.		45'		
	L.H.		39' 2"		L.H.		43' 6"		
Battery Type and Capacity	SLTW11E 50AH Twin				SLTW13A 60AH (12-v.)				
Sparking Plug Type	Champion No. L10				Champion No. L10				
Speedometer Gears—Driver	6				9				
	Driven	15				17			





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General Data, Series E Eight, Series M Ten and Series III Models—continued

TABLE A EIGHT (SERIES E)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	7.5
1500	11.7
2000	15.8
2500	19.9
3000	23.3
3500	26.1
4000	28.6
4400	29.6 (PEAK)

TABLE B (5-CWT. VAN MODEL)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	7.0
1500	10.7
2000	14
2500	17.5
3000	20.7
3500	22.8
3900	23.5 (PEAK)

TABLE C (SERIES "M" TEN)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	9.2
1500	14.4
2000	19.4
2500	23.9
3000	29
3500	33
4000	35.8
4500	37.1
4600	37.2 (PEAK)

TABLE D (SERIES III TWELVE)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	12.05
1500	19.2
2000	25.6
2500	30.8
3000	35.9
3500	39.8
3800	40.8 (PEAK)





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General Data, Series E Eight, Series M Ten and Series III Models—continued

TABLE E (8-10 CWT. VAN MODEL)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	12.3
1500	19
2000	25.5
2500	30
3000	33
3500	34 (PEAK)

TABLE G (SERIES III FOURTEEN-SIX)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	12.75
1500	19.75
2000	26.75
2500	34.25
3000	40.5
3500	45.5
4000	50
4200	51.5 (PEAK)

TABLE H (SERIES III TWENTY-FIVE)

NO. OF ENGINE REVOLUTIONS.	BRAKE HORSE-POWER.
1000	26.8
1500	41.5
2000	55.9
2500	69.7
3000	80.3
3500	88.3
3800	90.3 (PEAK)

