

181-RY

R.R. 399A (10H) (52661, 11-10-33) J.H.D.

Series *R2* Country *UK* Engine No. *TT-65* E.S. No. *1558*

Steering *E* Fittings *Incess No 8* Speedo. No. *AT. H924*

Body *Sedanca* Weight *12 cwt* Passengers *6/7 av 3* Luggage *2<sup>1</sup>/<sub>2</sub> av 2<sup>1</sup>/<sub>2</sub> av 1*

Springs—Front O.S. *1225* N.S. *1214* Rear O.S. *1374* N.S. *1364* Galters *Wefco*

Key Nos. *96 v 151* Ammeter No. *—* Axle Ratio *11 x 41*

On Test *9.5.34* Delivered *26.5.34* To *Lillie Hall*

Customer *Windovers Ltd for Lord Passington*

Complete Car D/D *30.6.34* Guaranteed Effective *from 1.7.34 No. 8601*

20.4.34	T12152	<p><i>Long Type Chassis</i></p> <p><i>6 Dunlop Wellbase Wire Wheels 19x4"</i></p> <p><i>6 Dunlop Fort-Silent Tread Tyres 7x19"</i></p> <p><i>Spare Wheel Carrier each side</i></p> <p><i>Chromium Mascot and Cap</i></p>	75512
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8

181-RY

~~Windovers, Ltd,  
475, Oxford Street,  
W.1.~~

J. S. G. BAZALGETE,  
10 Trowlock Island,  
Teddington, Middx.

~~- GSTD/98.17.7.34.~~

Reds/P 11 4 63

~~H.H. The Maharajah of Rajpipla,~~

~~The Manor,  
Old Windsor,  
Berkshire.~~

~~Ins. Report No. 10662.~~

~~Deceased. Reds/P. 16.5.51.~~

RR813 (20H) 65705 18-6-34) J.W.S.

**GOODS SUPPLIED**

**CHASSIS No.** ~~181~~-RY

9-10-34. 2. 483322. Rear Springs 1450 lbs. K K  
7520491. C. Wood.

Lowered Bonnet with louvers and rear  
ends sloping at an angle of  $11^{\circ}$   
DWS Jack Handle packed in spares  
2 Scuttle Stiffeners tied on Chassis  
2 Body Brackets packed in spares  
Low Rated Type Springs

Bonnet Hinge Mouldings in Polished Staybrite

Chassis Despatched per LMS Goods Train 26.5.34

21.6.34 1-12V 6RRNII Type P-R Battery sent direct to Wundovers Rd  
by Dagenite Accumulators

Finally tested at Wundovers Rd 30.6.34.

Ins. Report No. 10662.

*Windovers*

ORDER REF.:

CHASSIS No. *181RY*  
 Works No. *6512* H.P. *40/50*  
 Engine No. *TT65* Type *R2"*  
 Off Test *25.5.34* D.I. Issued *20.4.34*  
 Axle Ratio *11x4.1* Despatched *26.5.34*  
 Battery *P+R*

DATE OF SALE *11<sup>th</sup> April 1934*  
 SOLD TO *Windovers, Ltd.*  
*475, Oxford St. W.I.*  
*Demonstration, Lord Portarlington*

TYRES *Dunlop Fork*  
 Type *MA2 Tread*  
 Size *19x7*  
 Date of Order *20.4.34* No. *T12152*  
 Ordered from

COACHBUILDER *Windovers*  
 DELIVERY: REQUIRED  
 QUOTED *2<sup>nd</sup> week May*

CAR ORDER FORM BOOK No. PAGE  
 DEPOSIT PAID DATE £ : :  
 BALANCE OF CHASSIS PRICE PAID DATE *28.5.34* £1452 : 9 : 8  
 INVOICE No. *4016* DATE *24.5.34* AMOUNT £1152 : 9 : 8  
 ALLOWANCES *CR 3655* *5% Dem. Disc Chassis 24735*

CHASSIS DELIVERED ON *28.5.34* TO *Windovers* BY *W. & Co. Ltd.*  
 INSTRUCTION BOOK No. *8* SENT TO *Windovers* ON *30.5.34*

ERECTION PARTICULARS DATED *19.4.34* FROM *Windovers* ERECTION SHEET *1558* *20/4/34*  
 WHEELBASE *Long* STEERING COLUMN *E*  
 FITTINGS—UNTARNISHABLE RADIATOR SHUTTERS—UNTARNISHABLE  
 SPRINGS FOR—  
 BODY *Sedanca* WEIGHT *12* CWT.  
 SEATING *6-7* USUALLY *3* LUGGAGE: MAX. *1/2* CWT. AVERAGE *1/2* CWT.  
 ALLOWANCE FOR ACCESSORIES—STANDARD *67* LBS. SPECIAL *1/2 cwt*  
 CAR FOR USE IN *U.K. General work*  
 BONNET HINGE MOULDINGS TO BE *polished*

	Order No.	Dis-count.	£	s.	d.	Invoice Folio.
CHASSIS PRICE		20%	1800	=	=	4016
BONNET with <i>courses near end sloped at 11°</i>	T12152					
LOCKS TO BONNET						
LUGGAGE GRID TYPE						
WHEEL CARRIER <i>to offside</i>	T12152					
MASCOT TO RADIATOR CAP <i>yes</i>	T12152	15%	3	17	6	4016
wheel carrier to nearside	T12152	25%	6	6	-	4016
Second spare wheel	T12152	25%	5	19	-	4016
Second spare tyre	T12152	WHL	5	18	3	486

181-RY

Type LONG Date on Test 9.5.34 Customer Windsors-Lord Portlinton  
TRIALS.

Date	PARTICULARS OF ORDER	O/No.	O.K.
21.4.34	"E" Steering	5512	
"	Sales Specif. Sedanca 12 wts. Access 2 wts. Pass 6-74 Av 3. Lugg. 2 wts. Av 2 wts.		
25.4.34	"D" Specif. Sedanca 12 wts. Pass 3. Lugg. 56 lbs. in Body. Access 2 wts. Unkarnish No. 8.		
"	Springs - 1200+1200+1400+1400 Low Rated.		
"	Dunlop Wire Wellbase Wheels 6.		
21.4.34	6-7x19" Dunlop Fort Silent Tread Tyres.		
26.4.34	Spare wheel carrier each side 26" B & D.		
"	Chromium Mascot & Cap.		
"	Louvered Bonnet-louvers & rear end sloped at angle of 11°		
"	Bonnet mouldings to be polished staybrite.		
11.6.34	Trans sent by N to fit up parts to incorp. Clayton Heater	986	
C.H. Cards by <u>A. Smith</u> Date <u>26.5.34</u> Remarks <u>Correct</u>			
Guarantee effective from <u>1-7-34</u> Date Despd. <u>26.5.34</u> Recorded by <u>B.H.H.</u>			

RR 316 (10H) (44000-20-4-33) BM 3/960713.

TT65

Switch 11x41 WEFCO

Date	PARTICULARS OF ORDER	O/No.	O.K.
2-10-34	In C'wood. to groove Shack Also Pistons & Mod Prop Shaft	40446	

Valves and Fittings . . . . L.O.P. E83438  
 Wheelcase and Fittings L.O.P. E83692 No. TT.65. ✓  
 Water Pump . . . . . L.O.P. E83690 No. TT.85. ✓  
 " Connections . . . L.O.P. E82490  
 Wiring (Ignition) . . . . L.O.P. E77671  
 " (Installation) . . L.O.P. D73947  
 Wing & Wing Stays . . . L.O.P. F80678  
 Wheels (Road) . . . . . Type. G80278 Size—19" Rims.

**REMARKS.**

\* Bonnet has grooves & rear ends sloped at 11° LOP E83814  
 Dash to suit for Ry/H4B11/M3534.  
 \* Exhaust Swan Neck 13" longer than spec supplied to Windsor  
 for Y/518487 27.6.34 & Ry/CS10/EH28634.  
 \* Necessary fittings for connecting up Clayton Hoses supplied  
 to N Dept for Y/517855 7.6.34 & Ry/CS2/EH8634. N.  
 2-10-34. In C'wood - to groove shock absor  
 pistons & mod. Prop. shaft.  
 7-4-36. In C'wood - to fit 6. E85506 each valves.

R/H Chassis No. *181RY* Series *R2*  
 Finish—No. 8 Untarnishable Type—*LONG*

Ammeter . . . . . D73920 No. Type <sup>WESTON</sup> ~~B.M.~~ ~~Lucas~~  
 Autovac Tank & Pipes L.O.P. F85049 No. *F.529215* TT.65.  
 Auto Klean Filter . . . L.O.P. E81173 No. TT.75. ✓  
 Ballast Resistance . . . L.O.P. D70843  
 Battery and Fittings . . L.O.P. D73002 No. TT.65. ✓ Type *P. & R.*  
 \* Bonnet ~~SLOPED LOUVER~~ L.O.P. ~~E83325~~ No. *PX.95.* ✓  
 Cross Steering Tube . . L.O.P. G77482 Cens. *49.690"* No. TT.35.  
 Crankcase . . . . . L.O.P. E82539 No. TT.65. ✓  
 Camshaft . . . . . L.O.P. E77655 No. TT.65. ✓  
 Crankshaft . . . . . L.O.P. E84021 No. TT.65. ✓  
 Conn. Rods . . . . . L.O.P. E83273 No. TT.65. ✓  
 \* Cylinders . . . . . L.O.P. E83301 No. TT.65. ✓  
 Cylinder Bore Sizes . . Nos. 1, 2, 3 + 6. STANDARD Nos. 4 + 5 + 1. ✓  
 Controls . . . . . L.O.P. E84173  
 Carburetter . . . . . L.O.P. E83697 No. TT.75. ✓  
 " Air Silencer L.O.P. E83778  
 Coil (Ignition) . . . . . L.O.P. D72503 No. TT.45. ✓  
 Condenser . . . . . L.O.P. D71505 No. *SU.35.* ✓  
 Clutch and Flywheel . . L.O.P. G78723 No. TT.65. ✓  
 \* Dash. Brkts. & Footbds. L.O.P. F85060 Type. *E.* ✓ No. TT.65. ✓  
 Dynamo . . . . . Arrgt. Dwg. D74000 No. TT.95. ✓  
 Dynamo Suspension L.O.P. D71529  
 Distribution Board and  
 Cut-out L.O.P. D73942 No. TT.75. ✓  
 Distributor . . . . . L.O.P. D71648 No. TT.85. ✓  
 Dashbd. Ignition Ter. L.O.P. D50718  
 Dbl. Disconnecting Box L.O.P. DB310  
 Engine . . . . . No. TT.65. ✓  
 \* Exhaust Fittings . . . . L.O.P. *E.83884* No. TT.85. ✓  
 & E80753  
 Engine Coupling . . . . L.O.P. G80251  
 Extra Cyl. Lubn. . . . . L.O.P. E80088

Equalising Mechanism—

Rear Brake, Foot...L.O.P. G80002 No. *SU.25.* ✓  
 Front „ Foot...L.O.P. G78366 No. *SU.25.* ✓  
 Rear „ Hand L.O.P. G76951 No. *SU.25.* ✓  
 Front Axle & Brakes ...L.O.P. G80429 No. *TT.35.* ✓  
 „ „ C'rol Damper L.O.P. F85733 No. *O/SNZ.35. N/SNZ.35.* ✓  
 Anchorage for ditto...L.O.P. F84938 No. *O/SSU.35. N/SSU.35.* ✓  
 Fan .....L.O.P. E77672 No. *LC.35.* ✓  
 Frame and Fittings...L.O.P. F84085 No. *VR.95.* ✓  
 Frame Drilling.....Drawing No. *F.85232/3.* ✓  
 Front Apron .....L.O.P. F84593  
 Gear-box & Act. Gear..L.O.P. G80426 No. *TT.65.* ✓  
 „ 1st & 3rd mtn. shft.L.O.P. G79953  
 „ 2nd mtn. shft. L.O.P. G79955  
 „ Reverse Gear..L.O.P. G79956  
 Governor (Ignition) ...L.O.P. E77659 No. *TT.95.* ✓  
 „ Control for S/A's L.O.P. F85507 No. *H4.75.* ✓  
 Water Pump Drive....L.O.P. E83691  
 Hd. Lmp. Ftgs. & Horns L.O.P. D72679 Horns—Lucas Type. H.F. 728  
 Idler Gear .....L.O.P. E77658  
 Instrument Board ...L.O.P. D73925  
 Induction Pipe .....L.O.P. E83406 No. *TT.65.* ✓  
 Intermed. Shaft (Front) L.O.P. G80428  
 Horn Switch.....L.O.P. F80482  
 Junction Box <sup>(Body Lighting)</sup>.. L.O.P. D50833  
 Luggage Grid .....L.O.P. *NOT FITTED.* ✓  
 Magneto E82777.....Type Watford EW6/5 No. *134557.* ✓  
 Mag. & Dynamo Drives L.O.P. E78944  
 Mascot and Cap .....L.O.P. E81455 ✓  
 Main Switch .....L.O.P. D100208 No. *TT.75.* ✓  
 Oil Pump .....L.O.P. E82081 No. *TT.65.* ✓  
 „ Filter .....L.O.P. E77668 No. *TT.65.* ✓  
 „ Fittings .....L.O.P. E81170 ✓  
 „ Filler .....L.O.P. *E84670.* No. *LC.75.* ✓  
 „ Sump Indicator ...L.O.P. E77669 No. *TT.65.* ✓  
 „ Pipes & Ftgs (Cnt. Lub) L.O.P. F85196  
 „ Relief Valve.....L.O.P. E81642 No. *TT.95.* ✓

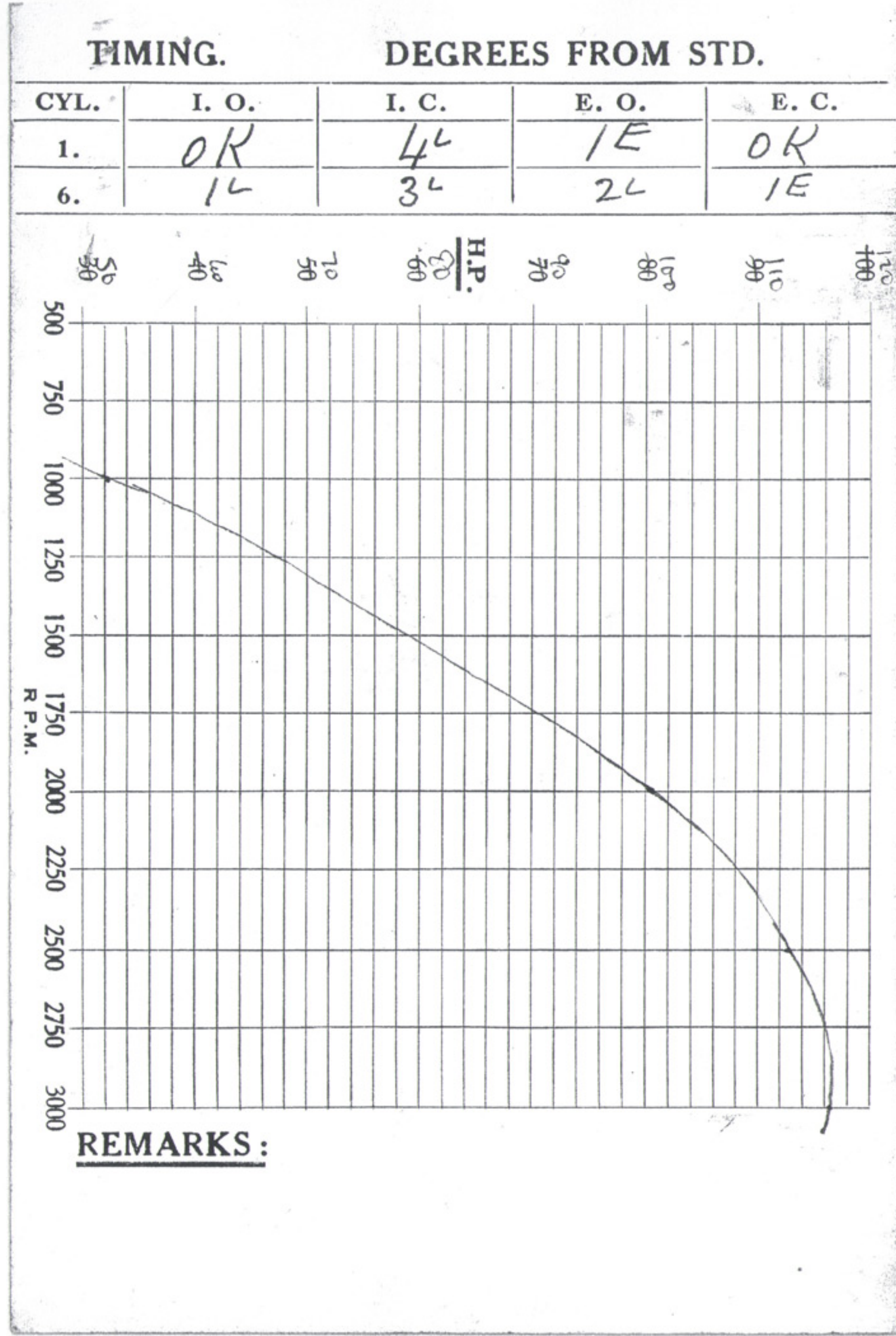
Oil Pump on Dash ....L.O.P. F100279 No. *RV.65.* ✓  
 Pistons .....L.O.P. E79533 Av. Wt. *11 15/16.* No. *TT.65.* ✓  
 Propeller Shaft .....L.O.P. G80001 No. *OY.85.* ✓  
 Pedals .....L.O.P. F84384 Type *E.* ✓ No. *X.NZ.35.* ✓  
 Petrol Tank .....L.O.P. F85013 No. *TT.65.* ✓  
 Pressure Piping for  
 Gov. Control L.O.P. F85699  
 Rad. & Fittings .....L.O.P. E81407 No. *TT.65.* ✓  
 „ Shutters & Controls L.O.P. E81007 No. *TT.65.* Finish. Staybrite.  
 Rear Axle .....L.O.P. G80430 Ratio. *11x41.* No. *TT.75.* ✓  
 „ Hubs .....L.O.P. G77235  
 „ Brakes .....L.O.P. G80431  
 „ „ Inter. Shaft L.O.P. G77590  
 Regulator Unit .....L.O.P. D100467 No. *TT.75.* ✓  
 Speedometer *D.7274.9* No. *H.924.* Type. Smith.  
 „ Drive ....L.O.P. G79952 No. *TT.65.* ✓  
 Shock Absorbers (R) ..L.O.P. F85732 No. *O/SAC.45. N/SAC.45.* ✓  
 Slipper Drive.....L.O.P. E79915 No. *TT.65.* ✓  
 Starting Carburetter ..L.O.P. E83593 No. *SU.75.* ✓  
 Side Lever Mech. ....L.O.P. G80000 Type *E.* ✓ No. *TT.65.* ✓  
 Switchbox .....L.O.P. D73932 No. *NZ.95.X.* Key. *96.V.151.* ✓  
 Side Steering Tube ...L.O.P. F79861 Cents. *2 5/16.* No. *OY.55.* ✓  
 Starting Handle.....L.O.P. E82480  
 S.-starter Motor Arrgt. Dwg. D73999 No. *XP.25.* ✓  
 Side Sp. Whl. Carrier..L.O.P. *D.73729.* EACH SIDE. ✓  
 Rear „ „ ..L.O.P. *NOT FITTED.* ✓  
 Servo Mtr. Mech. (C'shft) L.O.P. G79954 No. *TT.65.* ✓  
 „ „ „ (Geared) L.O.P. G80427  
 Starter Switch .....L.O.P. D73228  
 Steering Column.....L.O.P. F83844 Type *E.* ✓ No. *OY.95.* ✓  
 Thermometer .....Dwg. D73764 Type. Smith.  
 Tie Rods .....L.O.P. F79474 No. *VR.95.* ✓  
 Torque Reaction Dmpr. L.O.P. E83693  
 Undershield (Engine) L.O.P. E82105 No. *TT.65.* ✓  
 „ (Gear-box) L.O.P. G77358 No. *TT.65.* ✓  
 Vacuum Pump .....L.O.P. E78843 No. *TT.65.* ✓

**CHASSIS TESTED FOR ACCELERATION, ETC., AT FULL LOAD ON ALL GEARS AS BELOW.**

Engine Freedom..... *Good*  
 Max. Torque... *202* lbs. at... *1,000* r.p.m.  
 Min. Act.  
 Top Gear 10 min. 500 r.p.m. *X* lbs. *X* lbs.  
 " " 10 " 750 r.p.m. *191* lbs. *198* lbs.  
 " " 10 " 1000 r.p.m. *194* lbs. *202* lbs.  
 " " 10 " 1250 r.p.m. *190* lbs. *198* lbs.  
 " " 10 " 1500 r.p.m. *185* lbs. *196* lbs.  
 " " 10 " 1750 r.p.m. *183* lbs. *191* lbs.  
 " " 10 " 2000 r.p.m. *177* lbs. *186* lbs.  
 3rd " 3 " 2250 r.p.m. *225* lbs. *239* lbs.  
 " " 3 " 2500 r.p.m. *216* lbs. *228* lbs.  
 " " 3 " 2750 r.p.m. *203* lbs. *215* lbs.  
 " " 2 " 3000 r.p.m. *179* lbs. *196* lbs.  
 1st " 10 " 1500 r.p.m. *X* lbs. *392* lbs.  
 2nd " 10 " 1500 r.p.m. *X* lbs. *392* lbs.  
 3rd " 10 " 1500 r.p.m. *X* lbs. *260* lbs.

Diameter of Test Wheels..... *32 1/4* ins.  
 Condition of Plugs after Test... *Test plugs O.K.*  
 Cylinder Lubrication after Test... *not inspected*  
 Oil Press. *2.4* lbs./sq. in. Oil Cons. *3/4* pint  
 Timing Battery... *B.A.I.* Mag... *M.A.I.*  
 Axle No. *T.T. 75* Ratio *11 X 4.1* Heating.....  
 Consumption and Radiation, Top Gear Full Power,  
 1500 r.p.m. Bar *2.79* (corr) m/m. Air Inlet... *28* °C.  
 Petrol Consumption..... *57* pints per hour.  
 Water Flow at 80° C. *5* gals. in *4* min. *36* sec.  
 Tests taken by... *D. Leale* Date *13/2/34*  
 Passed by... *Chapman* Date *13-2-34*  
*1st gear full load 694 lbs.*

RR 298C. 3RD REVISE (10H) (16765 20-7-31) BM 6/4764  
**40/50 DYNAMOMETER TEST.**  
 Gear Box No. *T T 65*  
 ENG. No. *T 65*  
 CHASSIS No. *181-42*





**CARRIAGE SPRINGS.**

V.R. 95. Chassis No. 181RY

	Drawing No.	No. of plates	Thickness over all	Initial unloaded Camber after test "Z" dimension	Normal load Camber	Load for normal load Camber	Length "L" at normal load Camber
Front "near"	F83318	9	2 <sup>3</sup> / <sub>16</sub>	4.5	Flax	1214	45
Front "off"	---	---	---	4.52	---	1225	---
Rear "near"	<del>F83329</del>	<del>10</del>	<del>2 <sup>1</sup>/<sub>2</sub></del>	<del>10.19</del>	<del>---</del>	<del>1364</del>	<del>66</del>
Rear "off"	---	---	---	10.18	---	1374	---

refus gators.

Springs fitted to drawing Nos. Front F83311/85195 Rear F83322/82134  
 Date fixed on chassis 19-1-34 By G. Sowler  
 Thickness rubber buffer, rear 1/2 front 1.7.25.  
 Makers of springs Birch  
 Inspected by B. C. Date 19-1-34

**CARRIAGE SPRINGS.**

Chassis No. 181-RY

	Drawing No.	No. of plates	Thickness over all	Initial unloaded Camber after test "Z" dimension	Normal load Camber	Load for normal load Camber	Length "L" at normal load Camber
Front "near"							
Front "off"							
Rear "near" P.P.G.	F83322	10	2 <sup>1</sup> / <sub>2</sub>	10.25		1407	66.
Rear "off" P.P.G.	"	"	"	"		1410	"

Springs fitted to drawing Nos. Front..... Rear.....  
 Date fixed on chassis 9-10-34 By Allocation  
 Thickness rubber buffer, rear..... front.....  
 Makers of springs.....  
 Inspected by..... Date.....

YS 20791.

**SPRING TEST CARD.** See Instructions Re Spring Tests.

Body—Type..... *Sedan* Weight..... *1344* lbs.  
 Passengers—No..... *3* Total Weight..... *462* lbs.  
 Standard Spares..... Weight..... *54* lbs.  
 Luggage on Grid..... *in body* Weight..... *56* lbs.  
 Extras on Chassis..... *Wheel & Side* Weight..... *168* lbs.  
 " " "..... *Access* Weight..... *56* lbs.  
 " " "..... Weight..... lbs.  
 Load on Chassis Total Weight..... *2140* lbs.  
 Standard Chassis (No load with Oil, Petrol, Water, Tyres) Weight..... lbs.  
 Complete Car Total Weight..... lbs.  
 Distance of Load from Rear Axle..... ins.  
 Max. Load Period..... per min.

Spring	Camber	Buffer to Axle	Frame to Ground	Frame to Axle
Front "Near"	<i>-25 P</i>	<i>2-25</i>	<i>22-75</i>	<i>8-375</i>
Front "Off"	<i>-2 P</i>	<i>2-125</i>	<i>22-75</i>	<i>8-25</i>
Rear "Near"	<i>-5 P</i>	<i>4-5</i>	<i>25-25</i>	<i>8-5</i>
Rear "Off"	<i>-25 P</i>	<i>4-25</i>	<i>24-9</i>	<i>8-25</i>

Axle Height		Loaded Clearance	
Front	Rear	Under Flywheel Guard	Under Silencer Snout
<i>15-75</i>	<i>15-5</i>	<i>9"</i>	
Date..... <i>24.5.34</i> Tests taken			
By..... <i>G. Shipman</i>			

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