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For the use of Hillman Distributors and Dealers only.

THE  
HILLMAN MINX  
MARK III & IV MODELS

Man-hour Schedule



*Issued by:*

HILLMAN MOTOR CAR CO., LTD.,

*Service Department,*  
COVENTRY

*M.H.S. 3.*

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# Foreword

This Man-hour Schedule has been issued for the guidance of Hillman Distributors and Dealers.

The times given are for vehicles in reasonably good condition, and do not include cases where parts are seized or rusted due to neglect or misuse.

In the case of vehicles to which bodies other than the Company's standard products have been fitted, the necessary adjustment to man-hours must be made.

No attempt has been made to cover every possible operation, but those most commonly used are included.

The times quoted do not include road testing, and a reasonable allowance for this operation should be added where necessary.

Operation No.		Mk. III Models	Mk. IV Models
	<b>SECTION I. ENGINE</b>	hrs.	hrs.
E.1	Engine unit complete, remove and refit .....	7	7
E.2	Engine unit, remove and fit replacement unit, including changing over equipment from original unit, tuning and adjusting .....	9	9
E.3	Cylinder head, remove and refit, including new gasket .....	1 $\frac{3}{4}$	1 $\frac{3}{4}$
E.4	Decarbonise, face valves and valve seats, tune up .....	8 $\frac{1}{2}$	8 $\frac{1}{2}$
E.5	Adjust tappets .....	1 $\frac{1}{2}$	1 $\frac{1}{2}$
E.6	Tappet carrier or tappet, replace, including adjust tappets (one carrier only) .....	2 $\frac{1}{4}$	2 $\frac{1}{4}$
E.7	Tappet carriers or tappets, replace, including adjust tappets (both carriers) .....	2 $\frac{3}{4}$	2 $\frac{3}{4}$
E.8	Replace any one valve, other than during decarbonising operation	4 $\frac{1}{4}$	4 $\frac{1}{4}$
E.8A	Each additional valve to E.8 .....	$\frac{1}{3}$	$\frac{1}{3}$
E.9	Valve springs, remove and refit .....	4 $\frac{1}{2}$	4 $\frac{1}{2}$
E.10	Manifold c/w carburettor but less air silencer, remove and refit	$\frac{3}{4}$	$\frac{3}{4}$
E.11	Valve cover, remove and refit, including new joint .....	1	1
E.12	Manifold drain pipe, remove and refit .....	$\frac{1}{4}$	$\frac{1}{4}$
E.13	Sparking plugs, remove, clean, set and refit .....	$\frac{1}{2}$	$\frac{1}{2}$
E.14	Fan belt, remove and refit .....	$\frac{1}{3}$	$\frac{1}{4}$
E.15	Crankshaft jaw nut, remove and refit .....	$\frac{1}{4}$	$\frac{1}{4}$
E.16	Crankshaft pulley, remove and refit .....	$\frac{1}{2}$	$\frac{1}{2}$
E.17	Timing cover, remove and refit, including removing and refitting radiator block .....	1 $\frac{1}{2}$	1 $\frac{1}{2}$
E.18	Timing chain, camshaft wheel, or camshaft sprocket, remove and refit, including removing and refitting radiator block .....	2	2
E.19	Camshaft, remove and refit .....	6 $\frac{1}{2}$	6 $\frac{1}{2}$
E.20	Sump, remove, clean filter and refit .....	$\frac{3}{4}$	$\frac{3}{4}$
E.21	Oil pump, remove and refit .....	1 $\frac{1}{2}$	1 $\frac{1}{2}$
E.22	Fit new exhaust flange joint .....	$\frac{1}{3}$	$\frac{1}{3}$



Operation No.		Mk. III Models	Mk. IV Models
		hrs.	hrs.
E.23	Remove cylinder head, sump, withdraw pistons, measure bores, fit graded pistons, check connecting rod alignment and re-assemble .....	6½	7
E.24	Cylinder head top water pipe, remove and refit .....	¼	¼
E.25	Top water hose, remove and refit .....	¼	¼
E.26	Bottom water hose, remove and refit .....	¼	¼
E.27	Bottom water pipe, remove and refit .....	½	—
E.28	Petrol pump, remove and refit .....	⅓	⅓
E.29	Air silencer, remove and refit .....	¼	¼
E.30	Carburettor, remove and refit .....	¼	¼
E.31	Side water plate, remove and refit .....	¾	1
E.32	Remove core plug and fit new (front) .....	½	1
E.33	Oil relief valve, remove and refit .....	¼	¼
E.34	Oil filler, remove and refit .....	½	½
E.35	Front engine bearer rubbers, remove and refit .....	1	1
E.36	Rear engine bearer rubbers, remove and refit ..... pair	1¼	1¼
E.37	Replace any one connecting rod .....	1¾	2
E.38	Replace any one big-end bearing .....	1¼	1¼
E.39	Replace set of big-end bearings .....	2	2
E.40	Gearbox unit, remove and refit .....	5	5
E.41	Clutch unit, remove and refit .....	5½	5½
E.42	Flywheel, remove and refit .....	6	6
E.43	Water pump, remove and refit .....	—	¾
E.44	Thermostat, remove and refit .....	—	⅓
E.45	Adjust fan belt .....	10 mins.	5 mins.
E.46	Adjust dynamo drive belt .....	5 mins.	—

Operation No.		Mk. III Models	Mk. IV Models
		hrs.	hrs.
	<b>SECTION 2. GEARBOX</b>		
	Gearbox unit, remove and refit, see operation E.40		
GB.1	Overhaul gearbox after removal .....	5½	5½
	<b>SECTION 3. PROPELLOR SHAFT</b>		
P.1	Propellor shaft, remove and refit .....	¾	¾
P.2	Overhaul universal joints after shaft removal .....	2¼	2¼
	<b>SECTION 4. REAR AXLE</b>		
RA.1	Rear axle complete, remove and refit .....	4½	4½
RA.2	Differential unit, remove and refit .....	5	5
RA.3	Overhaul differential unit after removal .....	4	4
RA.4	Axle shaft, remove and refit .....	1	1
RA.5	Fit new oil seal to axle shaft (after shaft removal) .....	⅓	⅓
RA.6	Fit new oil seal to axle casing (after shaft removal) .....	¼	¼
RA.7	Fit new bevel pinion oil seal . . . . .	1½	1½
	<b>SECTION 5. FRONT SUSPENSION</b>		
FS.1	Front suspension unit, remove and refit, including adjusting track and camber and bleeding and adjusting brakes .....	4½	4½
FS.2	Overhaul front suspension unit after removal from chassis .....	4	4
FS.3	Front hubs and bearings, remove and refit ..... pair	1	1
FS.4	Adjust hub bearings ..... pair	½	½
FS.5	Adjust track and camber of front road wheels .....	2	2
FS.6	Fit new swivel pins and bushes, including adjusting track and camber .....	6½	6½
FS.7	Fit new coil spring to front suspension ..... each side	1	1

Operation No.		Mk. III Models	Mk. IV Models
FS.8	Top link, remove and refit .....	hrs. $1\frac{1}{4}$	hrs. $1\frac{1}{4}$
FS.9	Bottom link, remove and refit .....	1	1
FS.10	Stub axle, remove and refit .....	2	2
FS.11	Stub axle carrier, remove and refit .....	3	3
FS.12	Check track .....	$\frac{1}{4}$	$\frac{1}{4}$
FS.13	Adjust track .....	$\frac{1}{2}$	$\frac{1}{2}$
FS.14	Check camber .....	$\frac{1}{2}$	$\frac{1}{2}$
FS.15	Adjust camber .....	$1\frac{1}{2}$	$1\frac{1}{2}$
<b>SECTION 6. BRAKES AND CONTROLS</b>			
B.1	Remove brake shoes and fit relined set .....	4	4
B.2	Remove brake shoes, clean and back off shoes, blow out dust, refit and adjust .....	3	3
B.3	Bleed system and adjust brakes .....	$1\frac{1}{4}$	$1\frac{1}{4}$
B.4	Master cylinder, remove and refit, including bleeding and adjusting brakes .....	$1\frac{2}{3}$	$1\frac{2}{3}$
B.5	Fit one new brake hose, including bleeding and adjusting brakes .....	$1\frac{1}{2}$	$1\frac{1}{2}$
<b>SECTION 7. STEERING AND CONTROLS</b>			
S.1	Steering column controls, remove and refit .....	$\frac{3}{4}$	$\frac{3}{4}$
S.2	Steering wheel, remove and refit, including controls .....	$1\frac{1}{4}$	$1\frac{1}{4}$
S.3	Steering unit, remove and refit, including S.1 and S.2 .....	8	8
S.4	Steering cross tube, O/S and N/S, remove and refit, including adjusting track .....	$\frac{2}{3}$	$\frac{2}{3}$
<b>SECTION 8. ELECTRICAL EQUIPMENT</b>			
EE.1	Starter motor, remove and refit .....	$\frac{3}{4}$	$\frac{3}{4}$
EE.2	Dynamo, remove and refit .....	$\frac{1}{2}$	$\frac{1}{2}$



Operation No.		Mk. III Models	Mk. IV Models
EE.3	Coil, remove and refit .....	hrs. $\frac{1}{4}$	hrs. $\frac{1}{4}$
EE.4	Distributor, remove and refit .....	$\frac{1}{2}$	$\frac{1}{2}$
EE.5	H.T. Leads, remove and refit .....	$\frac{1}{2}$	$\frac{1}{2}$
EE.6	Oil pressure unit, remove and refit .....	$\frac{1}{4}$	$\frac{1}{4}$
EE.7	Speedometer, remove and refit .....	1	1
EE.8	Oil or ignition warning light, remove and refit .....	5 mins.	5 mins.
EE.9	Petrol gauge, remove and refit .....	1	1
EE.10	Petrol gauge tank unit, remove and refit .....	1	1
EE.11	Headlamp, remove and refit .....	$\frac{1}{2}$	$\frac{1}{2}$
EE.12	Sidelamp, remove and refit .....	—	$\frac{1}{2}$
EE.13	Tail and stop lamp, remove and refit .....	$\frac{3}{4}$	$\frac{3}{4}$
EE.14	Tail and stop lamp glass, remove and refit .....	10 mins.	10 mins.
EE.15	Roof lamp, remove and refit .....	$\frac{1}{3}$	$\frac{1}{3}$
EE.16	Battery, remove and refit, grease terminals .....	$\frac{1}{3}$	$\frac{1}{3}$
EE.17	Control box, remove and refit .....	1	1
EE.18	Lighting switch, remove and refit .....	$1\frac{1}{2}$	$1\frac{1}{2}$
EE.19	Ignition lock, remove and refit .....	2	2
EE.20	Starter control, remove and refit .....	1	1
EE.21	Choke control, remove and refit .....	1	1
EE.22	Brake stoplight switch, remove and refit .....	$\frac{1}{2}$	$\frac{1}{2}$
EE.23	Panel light switch, remove and refit .....	$\frac{3}{4}$	$\frac{3}{4}$
EE.24	Screenwiper motor unit, remove and refit .....	$1\frac{1}{4}$	$1\frac{1}{4}$
EE.25	Screenwiper arm, remove and refit .....	5 mins.	5 mins.
EE.26	Screenwiper wheel boxes, remove and refit .....	$2\frac{1}{2}$	$2\frac{1}{2}$
EE.27	Screenwiper switch, remove and refit .....	$\frac{3}{4}$	$\frac{3}{4}$
EE.28	Trafficator, remove and refit .....	$\frac{3}{4}$	$\frac{3}{4}$

Operation No.		Mk. III Models	Mk. IV Models
EE.29	Chassis cable harness, remove and refit .....	hrs. 6	hrs. 6
EE.30	Windscreen wiper drive cable, remove and refit .....	1	1
EE.31	Horn, remove and refit .....	$\frac{1}{2}$	$\frac{1}{2}$
EE.32	Number plate lamp, remove and refit .....	$\frac{1}{2}$	$\frac{1}{2}$
<b>SECTION 9. CHASSIS</b>			
CH.1	Rear road springs, remove and refit .....	1	1
CH.2	Front shock absorber, remove and refit .....	$\frac{1}{2}$	$\frac{1}{2}$
CH.3	Rear shock absorbers, remove and refit .....	$1\frac{1}{2}$	$1\frac{1}{2}$
CH.4	Top up shock absorber after removal .....	$\frac{1}{4}$	$\frac{1}{4}$
CH.5	Sway eliminator bar, remove and refit .....	$1\frac{1}{2}$	$1\frac{1}{2}$
CH.6	Rear axle rebound strap, remove and refit .....	$\frac{1}{2}$	$\frac{1}{2}$
CH.7	Rear axle buffer, remove and refit .....	$\frac{1}{2}$	$\frac{1}{2}$
CH.8	Radiator block, remove and refit .....	$\frac{3}{4}$	$\frac{3}{4}$
CH.9	Petrol tank, remove and refit .....	$1\frac{1}{4}$	$1\frac{1}{4}$
CH.10	Petrol pipe, pump to carburettor, remove and refit .....	5 mins.	5 mins.
CH.11	Petrol pipe, tank to pump, remove and refit .....	$\frac{3}{4}$	$\frac{3}{4}$
CH.12	Rehang exhaust system .....	1	1
CH.13	Exhaust silencer, remove and refit .....	$\frac{3}{4}$	$\frac{3}{4}$
CH.14	Tail pipe, remove and refit .....	$\frac{1}{2}$	$\frac{1}{2}$
CH.15	Front exhaust pipe, remove and refit .....	$\frac{1}{2}$	$\frac{1}{2}$
<b>SECTION 10. BODY MOUNTING</b>			
BM.1	Bonnet panel assembly, remove and refit .....	$\frac{1}{2}$	$\frac{1}{2}$
BM.2	Bonnet prop, remove and refit .....	5 mins.	5 mins.
BM.3	Radiator grille bars .....	$\frac{2}{3}$	$\frac{2}{3}$



Operation No.		Mk. III Models	Mk. IV Models
BM.4	Front wing, remove and refit .....	hrs. 2	hrs. 2
BM.5	Front bumper complete, remove and refit .....	$\frac{1}{2}$	$\frac{1}{2}$
BM.6	Rear bumper complete, remove and refit .....	$\frac{1}{2}$	$\frac{1}{2}$
BM.7	Bonnet hinge, remove and refit .....	$\frac{1}{3}$	$\frac{1}{3}$
<b>SECTION II. BODY FITTINGS (SALOON)</b>			
BF.1	Front door complete, remove and rehang .....	2	2
BF.2	Rear door complete, remove and rehang .....	2	2
BF.3	Front door lock, remove and refit .....	2	2
BF.4	Front door glass, remove and refit .....	1 $\frac{1}{4}$	1 $\frac{1}{4}$
BF.5	Front window regulator, remove and refit .....	1 $\frac{1}{4}$	1 $\frac{1}{4}$
BF.6	Front door ventilator, remove and refit .....	2 $\frac{1}{2}$	2 $\frac{1}{2}$
BF.7	Rear door lock, remove and refit .....	3 $\frac{1}{4}$	3 $\frac{1}{4}$
BF.8	Rear door glass, remove and refit .....	2 $\frac{1}{4}$	2 $\frac{1}{4}$
BF.9	Rear window regulator, remove and refit .....	1 $\frac{1}{4}$	1 $\frac{1}{4}$
BF.10	Rear door fixed glass, remove and refit .....	2 $\frac{1}{2}$	2 $\frac{1}{2}$
BF.11	Windscreen, remove and refit .....	2	2
BF.12	Backlight glass, remove and refit .....	1 $\frac{1}{2}$	1 $\frac{1}{2}$
BF.13	Trunklid assembly, remove and refit .....	1	1
BF.14	Fit new weatherstrips to trunk compartment .....	$\frac{3}{4}$	$\frac{3}{4}$
BF.15	Trunk lid hinge, remove and refit ..... each	$\frac{1}{2}$	$\frac{1}{2}$
BF.16	Door check strap, remove and refit .....	1	1
BF.17	Door exterior handle, remove and refit .....	1	1
BF.18	Door interior handle, remove and refit .....	10 mins.	10 mins.
BF.19	Rear squab, remove and refit .....	$\frac{1}{3}$	$\frac{1}{3}$
BF.20	Arm rest, remove and refit .....	$\frac{1}{2}$	$\frac{1}{2}$
BF.21	Front seat, remove and refit .....	$\frac{1}{2}$	$\frac{1}{2}$

Operation No.		Mk. III Models	Mk. IV Models
		hrs.	hrs.
<b>SECTION 12. LUBRICATION</b>			
L.1	Apply grease to all pressure nipples .....	$\frac{1}{3}$	$\frac{1}{3}$
L.2	Change engine oil .....	10 mins.	10 mins.
L.3	Drain gearbox and refill .....	10 mins.	10 mins.
L.4	Drain rear axle and refill .....	10 mins.	10 mins.
L.5	Check oil levels in engine, gearbox, rear axle and steering box	$\frac{1}{3}$	$\frac{1}{3}$
L.6	Clean down rear road springs in position and grease up .....	$\frac{1}{2}$	$\frac{1}{2}$

