

The standard times are calculated for vehicles with standard equipment; additional time required for cleaning is **not** included.

### Engine

M 01	Remove and refit engine (including test run on stand)
M 02	Dismantle and reassemble engine (including adjustment)
M 03	Remove and refit rear wheel drive with suspension
M 04	Remove and refit cylinder head
M 10	Remove and refit cylinder block and piston
M 11	Decarbonising of cylinder head and exhaust system (without removal of cylinder block)
	As above (with removal of cylinder block)
M 12	Remove and refit gudgeon pin (including reaming)
M 15	Remove and refit clutch
M 26	Centralise crankshaft (125 cc only)
M 27	Remove and refit bearing cover
M 30	Exchange crankshaft and bearing, including lining-up bevel gears
M 35	Remove and refit gears and gear change mechanism
M 36	Remove and refit gear shaft bearing and bushes
M 37	Adjust gear change
M 51	Remove and refit airducts (left and right hand)
M 52	Cover for rear wheel suspension

### Ignition and generator

Z 01	Set ignition timing
Z 02	Remove and refit generator and adjust
Z 03	Remove and refit contact breaker points and adjust
Z 04	Remove and refit condenser and test
Z 05	Remove and refit ignition coil
Z 06	Remove and refit ignition high tension cable
Z 07	Remove and refit control box
Z 08	Remove and refit carbon brushes

### Carburettor

V 01	Remove and refit air filter and clean
V 02	Remove and refit carburettor, clean and adjust

Time for task (hrs)	Additional work required	Total time (hrs)
	M 51, F 02, F 62, F 70, F 76, F 91	3½
6	M 01, M 03	11
2	F 02, F 91	2½
¼	M 51, F 76, F 80	1
½	M 51, F 76, F 80, M 04	1½
¼	M 04, M 51, F 70, F 76, F 80	1¼
¾	M 04, M 51, F 70, F 76, F 80	2¼
½	M 04, M 10, M 51, F 76, F 80	2
1½	F 91	1¾
1½	M 04, M 27, M 51, Z 02, F 76, F 80, F 91	4
¾	M 51, Z 02, F 91	1¾
1	M 01, M 02, M 03	12½
1	M 03, M 15	4½
¼	M 01, M 02, M 03	11¾
½	Road test	1
¼	—	¼
1	F 02, F 05	1½
¾	—	¾
½	M 51, F 91	1
1¼	—	1¼
1¼	—	1¼
1	(possibly Z 02)	(1½)
¾	(possibly Z 02)	(1¼)
1	M 51	1¼
	M 51, F 91	½
¼	with noise suppressor	½
¼	V 01 or V 01 with noise suppressor	¾



SERVICE

## FLAT RATE TIMES FOR REPAIR TASKS

NSU PRIMA 150 cc  
Standard Times / Page 2  
Edition X, 1957

### Wheels, Brakes, and Forks

F 01	Remove and fit front wheel . . . . .
F 02	Remove and fit rear wheel . . . . .
F 03	Remove and fit ball bearing and seal in hub . . . . .
F 04	Remove and fit front brake back plate . . . . .
F 05	Remove and fit rear hub . . . . .
F 08	Renew brake linings (each brake). Strip and assemble brake . . . . .
F 09	Remove and fit speedometer drive . . . . .
F 20	Remove and fit front forks . . . . .
F 21	Remove and fit bearing shells, races, and balls . . . . .
F 22	Remove and fit front fork springs . . . . .
F 24	Remove and fit pivoted links (left-hand and right-hand) . . . . .
F 25	Replace bushes in pivoted links . . . . .
F 26	Remove and fit front mudguard . . . . .
F 27	Remove and fit bumper . . . . .
F 30	Remove and fit fork cowling . . . . .

### Controls and Bowden Cables

F 40	Remove and fit handlebars (with fittings) . . . . .
F 41	Remove and fit handlebar bend . . . . .
F 42	Remove and fit speedometer . . . . .
F 43	Remove and fit speedometer drive shaft . . . . .
F 44	Remove and fit control levers . . . . .
F 45	Remove and fit throttle twistgrip . . . . .
F 46	Remove and fit gearchange twistgrip . . . . .
F 47	Remove and fit twistgrip or dummy grip sleeve . . . . .
F 48	Remove and fit slider in twistgrip . . . . .
F 50	Remove and fit clutch cable . . . . .
F 51	Remove and fit front brake cable . . . . .
F 52	Remove and fit cable for gearchange locking mechanism . . . . .
F 53	Remove and fit throttle cable . . . . .
F 54	Remove and fit gearchange cable . . . . .
F 55	Remove and fit cable for strangler and for operating tickler . . . . .

### Frame

F 60	Remove and fit frame . . . . .
F 61	Remove and fit front central section of panelling . . . . .
F 62	Remove and fit rear mudguard . . . . .
F 63	Remove and fit rear central section of panelling . . . . .
F 65	Remove and fit rear shock absorber . . . . .

Time for task (hrs)	Additional work required	Total time (hrs)
1/4	—	1/4
1/4	—	1/4
1/4	F 01, F 04	3/4
1/4	F 01	1/2
1/4	F 02	1/2
1/2	F 01, F 04 or F 02, F 05	1
1/2	M 52, F 02, F 05	2
3/4	F 01	1
1/2	F 01, F 20, F 30	1 1/4
1/4	F 01	1/2
	F 01, F 22	1/2
3/4	F 01, F 24	1 1/4
1/4	F 01, F 20	1 1/4
1/4	—	1/4
	E 13	1/2
	F 51, F 53, F 50, F 54 E 13, E 05	3/4
1/4	F 46, F 40, E 10	1
1/4	—	1/4
1 1/4	F 83, F 30, E 16, E 19	2 1/4
1/4	—	1/4
1/4	—	1/4
1/4	—	1/4
1/4	—	1/4
1/4	F 45	1/2
1/2	E 13, F 30	1
1/2	E 13, F 30	1
1/4	—	1/4
1/4	F 48, F 45, F 30	1
1	F 46, F 30	1 1/2
1/2	E 13, F 30	1
	M 01, F 01, F 20, F 21, E 13, F 30, F 46, F 50, F 51, F 52, F 54, F 55, F 71, F 72, E 09, F 61, F 90, F 80, F 63, E 19, E 15, E 16	14
1/4	F 71, F 72	3/4
1/4	F 02	1/2
1/2	F 61, E 09, F 71, F 72	1 1/2
1/4	—	1/4



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- F 67 Remove and fit rear springing . . . . .
- F 68 Remove and fit bearing pin and bush . . . . .
- F 70 Remove and fit exhaust system . . . . .
- F 71 Remove and fit pillion saddle . . . . .
- F 72 Remove and fit saddle . . . . .
- F 73 Remove and fit prop stand . . . . .
- F 74 Remove and fit central stand (and return spring) . . . . .
- F 76 Remove and fit tool box . . . . .
- F 80 Remove and fit fuel tank . . . . .
- F 82 Remove and fit fuel tap and filter . . . . .
- F 83 Remove and fit legshield edge strips, left-hand and right-hand . . . . .
- F 90 Remove and fit legshield . . . . .
- F 91 Remove and fit footrests, left-hand and right-hand . . . . .

#### Electrical Installation

- E 01 Horn lead . . . . .
- E 02 Rear-light lead . . . . .
- E 03 Battery lead . . . . .
- E 04 Lighting lead . . . . .
- E 05 Remove and fit dip-switch lead . . . . .
- E 06 Remove and fit horn . . . . .
- E 07 Remove and fit fuel gauge tank unit . . . . .
- E 09 Remove and fit reflector and rear light . . . . .
- E 10 Remove and fit dip switch . . . . .
- E 12 Remove and fit headlamp glass and reflector . . . . .
- E 13 Remove and fit headlamp . . . . .
- E 14 Remove and fit stop light switch . . . . .
- E 15 Remove and fit one battery . . . . .
- E 16 Remove and fit battery box . . . . .
- E 18 Remove and fit starting, lighting, and ignition switch . . . . .
- E 19 Remove and fit instrument panel . . . . .

} Remove and fit cable harness

Time for task (hrs)	Additional work required	Total time (hrs)
¼	F 02, F 05	1¼
¼	F 02, F 05, F 67	1½
½	—	½
¼	—	¼
¼	—	¼
¼	—	¼
½	—	½
¼	—	¼
¼	F 76	½
¼	—	¼
¼	—	¼
1¼	F 30, E 15, E 16, E 19, F 83	2¾
½	—	½
1¼	F 30, E 18	2¼
¼	E 10, E 13	¾
¼	E 13	¾
¼	—	¼
¼	—	¼
¼	E 13	½
¼	—	¼
¼	—	¼
½	—	½
¼	E 15	¾
½	—	½
¼	F 30, E 15, E 16, E 18, F 42	2