

20-10259C

REPLACEMENT PARTS

P11

TWIN-CYLINDER

**SCRAMBLES
MOTOR
CYCLE**

British Only

MOTORCYCLES AND PARTS INC.

32451 PARKLANE ST. WWW.BRITISHONLY.COM
GARDEN CITY, MI 48135 USA INFO@BRITISHONLY.COM

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MOTOR CYCLE**

NORTON VILLIERS LIMITED

NORTON MATCHLESS DIVISION

44, PLUMSTEAD ROAD — LONDON S.E. 18.

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Part No.DescriptionCRANKSHAFT

24276	Crankshaft assembly less connecting rods
23262	Crankcheek (timing side)
23261	Crankcheek (driving side)
24248	Flywheel (bare)
T.2105	Flywheel/crankcheek dowel
T.2033	Crankcheek bolts (4)
T.2086	Crankcheek studs (2)
T.2032	Dowel retaining plates (2)
T.2031	Crankcheek stud nuts (6)
23280	Crankcheek bolt nuts (2)
E.4591	Crankshaft plug

CONNECTING ROD

25369	Connecting rods with caps (2)
23254	Cap bolts (4)
23253	Cap bolt nuts (4)
25384	Con-rod bearing shells (top half) - standard (2)
23255	Con-rod bearing shells (bottom half) - standard (2)
25409	Con-rod bearing shells (top half) - .010" undersize (2)
25410	Con-rod bearing shells (top half) - .020" undersize (2)
25411	Con-rod bearing shells (top half) - .030" undersize (2)
25413	Con-rod bearing shells (top half) - .040" undersize (2)
25165	Con-rod bearing shells (bottom half) - .010" undersize (2)
25166	Con-rod bearing shells (bottom half) - .020" undersize (2)
25167	Con-rod bearing shells (bottom half) - .030" undersize (2)
25168	Con-rod bearing shells (bottom half) - .040" undersize (2)

CRANKCASE

25379	Crankcase complete with timing cover
25375	Crankcase halves assembled less timing cover
25305	Timing-gear cover
25043	Crankcase (driving side)
25372	Crankcase (timing side)
T.2236	Timing-cover gasket
24251	Cylinder-barrel studs (6)
T.2209	Cylinder-barrel studs (stepped) (2)
18943	Cylinder-barrel stud (front)
10940	Timing-cover screws (6)
E.6980	Timing-cover screws (6)
20621A	Timing-cover-screw washers (12)
10940	Sump screws (2)
11775	Sump-screw washer
T.2036	Camshaft bush (timing side)
T.2037	Camshaft bush (driving side)
048023	Oil seal (timing-side shaft)

<u>Part No.</u>	<u>Description</u>
048079	Oil seal circlip
16945	Sump-filter body
16949	Filter-body washer
16948	Filter-body circlip
16946	Sump-filter gauze
16947	Filter-gauze washer
E.4591	Timing cover oilway plug
16902	Oilway set pin
T.1084	Set pin washer

CRANKCASE BREATHER

24302	Breather pipe (rubber)
24300	Breather-pipe elbow
13786	Elbow washer
24303	Elbow nut

PRESSURE RELEASE

T.2059A	Pressure-release body (assembled)
T.2054	Release-body piston
T.2061	Piston spring
15404	Packing shim (as required)
T.2060	Release-body nut
T.2058	Release-union washer
T.2057	Release-union nut washer

CYLINDER BARREL & HEAD

25323	Cylinder barrel
25359	Cylinder head with valve guides
25318	Cylinder-head gasket
T.2016	Cylinder-barrel stud nut - $\frac{3}{8}$ "
24250	Cylinder-barrel stud nuts (6)
T.2210	Cylinder-barrel stud nuts - 5/16" (2)
000011	Stepped stud washers (2)
24252	Stud washers (6)
24249	Cylinder-base gasket
T.2161	Head to barrel studs - 5/16" (2)
24389	Head to barrel studs (3)
24260	Head-stud nuts (2)
T.2017	Head-stud nuts - 5/16" (2)
24250	Head-stud nut - rear
24253	Cylinder-head bolts - long (4)
25313	Cylinder-head bolt - short
16213	Cylinder-head bolt washer
E.5456	Cylinder-head bolt washers (4)

<u>Part No.</u>	<u>Description</u>
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VALVES, VALVE GUIDES & SPRINGS

24330	Inlet valves (2)
T.2204	Exhaust valves (2)
T.2011	Valve guides (4)
23392	Heat resisting washers (4)
T.2073	Valve-spring cups (4)
22839	Valve springs (inner) (4)
22838	Valve springs (outer) (4)
T.186	Valve-spring collars (4)
T.187	Valve cotters (4 pairs)

PISTONS & RINGS (STANDARD)

25389	Piston complete (left hand)
25390	Piston complete (right hand)
24284	Piston rings - chrome (top) (2)
24285	Piston rings - plain (2)
25382	Piston rings - scraper (2)
24287	Gudgeon pins (2)
23276	Gudgeon-pin circlips (4)

PISTONS & RINGS (OVERSIZE)

25415	Piston complete (left hand) + .010"
25418	Piston complete (left hand) + .020"
25421	Piston complete (left hand) + .030"
25424	Piston complete (left hand) + .040"
25427	Piston complete (right hand) + .010"
25430	Piston complete (right hand) + .020"
25433	Piston complete (right hand) + .030"
25436	Piston complete (right hand) + .040"
25246	Piston rings - chrome (top) + .010" (2)
25247	Piston rings - chrome (top) + .020" (2)
25248	Piston rings - chrome (top) + .030" (2)
25249	Piston rings - chrome (top) + .040" (2)
25250	Piston rings - plain - + .010" (2)
25251	Piston rings - plain - + .020" (2)
25252	Piston rings - plain - + .030" (2)
25253	Piston rings - plain - + .040" (2)
25439	Piston rings - scraper - + .010" (2)
25442	Piston rings - scraper - + .020" (2)
25445	Piston rings - scraper - + .030" (2)
25448	Piston rings - scraper - + .040" (2)

MAIN BEARINGS

17822	Ball bearing (timing side)
T.2008	Sealing washer (timing-side bearing)

<u>Part No.</u>	<u>Description</u>
17824	Roller bearing (driving side)
T.2187	Oil seal (driving-side bearing)
<u>TIMING GEAR</u>	
T.2035	Half-time pinion
E.3683	Pinion key
T.2007	Pinion backing plate
22729	Camshaft
T.2078	Camshaft breather plate (stationary)
24301	Breather plate (rotary)
T.2108	Breather spring
20829	Camshaft sprocket
E.3683	Camshaft-sprocket key
17211	Nut (sprocket and rev. - counter drive)
17806	Camshaft chain (38 link - endless)
T.2217	Chain tension slipper
T.2218	Chain-tensioner plate (thick)
T.2218A	Chain-tensioner plate (thin)
T.247	Chain-tensioner studs (2)
E.3231	Chain-tensioner stud nuts (2)
18202	Chain-tensioner stud washers (fan disc) (2)
50008	Intermediate gear with sprockets
T.2026	Intermediate-gear bush
T.2080	Intermediate-gear washer
T.2021	Intermediate-gear spindle
17823	Intermediate-spindle circlip

TAPPETS & PUSH RODS

22771	Tappets (left hand) (2)
22772	Tappets (right hand) (2)
T.2142	Tappet locating plates (2)
T.2143	Locating plate screws (2)
S650-82 IN	Push rods complete - inlet (long) (2)
S650-82 EX	Push rods complete - exhaust (short) (2)
23352	Push rod tubes - inlet (long) (2)
23354	Push rod tubes - exhaust (short) (2)
T.2064	Push-rod ends (top) (4)
T.2182	Push-rod ends (bottom) (4)

ROCKERS, COVERS, ETC.

25332	Rocker - inlet (right hand)
25330	Rocker - inlet (left hand)
25336	Rocker - exhaust (right hand)
25334	Rocker - exhaust (left hand)
T.2063	Rocker ball ends (4)

<u>Part No.</u>	<u>Description</u>
T.2074	Rocker adjusters (4)
T.232	Rocker-adjuster nuts (4)
25350	Rocker shafts (4)
18102	Shaft thrust washers (4)
18103	Shaft spring washers (4)
T.2083	Shaft joint gaskets (4)
T.2238	Shaft locking plates (4)
T.2239	Shaft retaining plates (4)
T.2240	Shaft plate joint washers (4)
T.2256	Retaining plate set pins (8)
T.2162	Domed nut (rear rocker cap)
T.2082	Domed nut washer
18094	Rear rocker cap
T.2084	Rear cap sealing washer
18033	Rear cap stud
000579	Rear cap dowel
T.2085	Front rocker cap nuts (4)
18093	Front rocker caps (2)
T.2088	Front cap sealing washers (2)
T.2252	Front cap studs (4)
25328	Rocker oil-feed pipe
018155	Oil feed-pipe clip
18101	Feed-pipe banjo bolts (3)
T.1084	Banjo bolt fibre washers (6)
22167	Rocker feed-pipe hose

OIL PUMP

25396	Oil pump complete
15511A	Pump spindle nut
24733	Pump worm gear wheel
17697	Gear wheel key
15515	Pump feed bush
21146	Feed bush shim
T.272	Feed bush washer
24732	Mainshaft driving worm
E.4440	Pump-to-crankcase studs (2)
E.3231	Pump stud nuts (2)
E.4590	Oil stop screw

STATOR HOUSING

20885	Stator housing
20693	Stator housing screws (3)
21411	Stator housing screw washers (3)

CRANKCASE BOLTS

13870	Crankcase bolt - short
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<u>Part No.</u>	<u>Description</u>
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E.5456	Crankcase-bolt washer
E.3223	Crankcase-bolt nut
T.2013	Crankcase stud (top rear)
000010	Crankcase-stud washer
E.3224A	Crankcase-stud nut
19077	Crankcase stud (top front)
T.2221	Crankcase-stud washer
E.3229	Crankcase-stud nut

HEAD STEADY STAY

033091	Engine steady stay
000361	Stay-to-frame bolt
000011	Stay-to-frame bolt washer
030424	Stay-to-engine bolt
000010	Stay-to-engine bolt washer

ENGINE SPROCKET

T.2180A	Engine sprocket - 17 teeth
T.2180B	Engine sprocket - 18 teeth
T.2180C	Engine sprocket - 19 teeth
T.2180D	Engine sprocket - 20 teeth
T.2180E	Engine sprocket - 21 teeth (standard)
T.2180F	Engine sprocket - 22 teeth
T.2180G	Engine sprocket - 23 teeth
E.3682	Sprocket key

CHAINS

022870	Front chain - 68 link $\frac{1}{2}$ in. x .305 in.
033156	Rear chain - 100 link $\frac{5}{8}$ in. x .380 in.
18257	Contact-breaker chain - 42 link (endless)

CARBURETTOR

23358	Spacers - thin (2)
030561	Spacers - thick (2)
23873	Balance pipe unions (2)
11775	Union washers (2)
23580	Balance pipe - $5\frac{3}{4}$ in.
21999	Carburettor studs (3)
030343	Carburettor screw
11796	Stud or screw washers (4)
E.3231	Carburettor stud nuts (3)
033077	Carburettor complete (left hand) (L930/8)
033078	Carburettor complete (right hand) (R930/7)
L930/002	Carburettor body only (left hand)
R930/001	Carburettor body only (right hand)

<u>Part No.</u>	<u>Description</u>
622/050	Float-chamber bodies (2)
928/060	Throttle valves - size 3 (2)
928/062	Air valves (2)
928/064	Mixing-chamber tops (2)
622/061	Throttle-valve springs (2)
622/065	Air-valve springs (2)
622/067	Throttle-needle clips (2)
928/063	Throttle needles (2)
622/068	Float needles (2)
622/069	Floats (2)
622/071	Float spindles (2)
622/072	Float-chamber body inserts (2)
622/073	Float-chamber washers (2)
622/074	Choke tubes (2)
622/076	Pilot air-adjuster screws (2)
622/077	Throttle stops (2)
622/078	Banjo bolts (2)
622/079	Needle jets - size .107 (2)
622/080	Jet holders (2)
376/100	Main jets - with air filter size 250 (2)
124/026	Pilot jets - size 25 cc (2)
622/089	Tickler stems (2)
622/101	Flange 'C' rings (2)
622/081	Tickler heads (2)
14/032	Tickler springs (2)
622/085	Sealing discs (2)
622/086	Float-chamber and mixing-chamber top screws (4)
376/097	Banjo unions (2)
376/093	Filters (2)
622/082	'C' rings (4)
928/066	Air funnels (2)
622/087	Mixing-chamber plugs (2)
4/035	Cable adjusters (4)
5/077	Cable adjuster lock nuts (4)

GEARBOX FIXING PARTS

033152	Fixing bolt (top)
000002	Fixing bolt nut
000009	Fixing bolt washers (2)
030250	Fixing bolt spacer
033153	Pivot stud (bottom)
000009	Pivot stud washers (2)
000002	Pivot stud nuts (2)
023259	Gearbox adjuster
000004	Adjuster nut
022504	Adjuster crosshead
000402	Crosshead bolt
000010	Crosshead bolt washer

<u>Part No.</u>	<u>Description</u>
<u>GEARBOX SHELL</u>	
040144	Shell with two bushes
028534	Kickstart case (inner)
028535	Kickstart cover (outer)
040030	Inner-case gasket
040055	Outer-cover gasket
040138	Drain plug
000200	Drain-plug washer
040137	Oil-level plug
000203	Oil level-plug washer
040053	Inspection cover
040057	Inspection-cover gasket
000450	Inspection-cover screws (2)
000577	Kickstart-case dowels (2)
040064	Kickstart case studs (2)
000271	Kickstart-case studs (5)
000004	Kickstart-case stud nuts (7)
000577	Kickstart-cover dowels (2)
000482	Kickstart cover screws (5)

SHAFTS AND GEARS

040001	Gearbox mainshaft
040025	Gearbox layshaft
040422	Main gear with bushes
040026	Mainshaft first gear
040418	Mainshaft second gear
040012	Mainshaft third gear
040115	Layshaft first gear
040019	Layshaft second gear
040420	Layshaft third gear
040284	Layshaft top gear pinion
040062	Main driving-gear bushes (2)
040048	Mainshaft second-gear bush
040047	Layshaft third-gear bush
040046	Layshaft first-gear bush

GEARBOX BEARINGS & SEALS

040098	Main gear ball bearing
040099	Mainshaft ball bearing in kickstart case
040100	Layshaft ball bearing in shell
040056	Camplate and quadrant bushes in shell (2)
040132	Oil seal (main-gear bearing)
040129	Camplate/quadrant 'O' rings (2)
040473	Kickstart spindle bush in case
040061	Footchange spindle bush in case
040472	Kickstart spindle bush in cover

<u>Part No.</u>	<u>Description</u>
040063	Footchange spindle bush in cover
040079	'O' ring (ratchet spindle)
040006	'O' ring (footchange and pawl carrier)
040005	'O' ring (kickstart)
040036	Camplate/spindle bush

GEARBOX SPROCKET

040451	Sprocket - 17 teeth, $\frac{5}{8}$ in. x .380 in.
040131	Gearbox-sprocket spacer
040070	Gearbox-sprocket nut
040076	Sprocket nut lockwasher
000450	Lockwasher screw

FOOTCHANGE

040018	Camplate
040015	Camplate spindle
040109	Quadrant assembly
000174	Camplate/quadrant-spindle washers (2)
040136	Camplate/quadrant-spindle screws (2)
040022	Selector forks (2)
040035	Selector-fork shaft
040111	Ratchet assembly gear
040078	Knuckle pin roller
040038	Gear change pawl spring
040110	Pawl carrier assembly
040002	Pawl carrier
040067	Pawl carrier pin
040024	Foot-change pawl
040049	Pawl circlip
040066	Ratchet spindle
040479	Gear-change return spring
040135	Gear-change return-spring washer
040052	Gear-change stop plate
041400	Stop-plate screws (2)
014117	Stop plate screw spring washers (2)
041311	Foot-change pedal
040086	Pedal rubber
040105	Pedal clamping bolt
045062	Clamping-bolt washer
000005	Clamping-bolt nut
040051	Gear indicator
040137	Indicator screw
000012	Indicator-screw washer
040034	Camplate plunger
040442	Camplate plunger spring

<u>Part No.</u>	<u>Description</u>
<u>CLUTCH</u>	
040478	Clutch complete
040366	Clutch centre
040584	Backplate
040351	Race plate
040367	Roller cage
000075	Clutch-race rollers (15)
040359	Clutch sprocket
043443	Shock absorber centre
043445	Shock absorber centre cover plate
043446	Cover-plate screws (3)
040386	Shock rubbers - large (3)
040387	Shock rubbers - small (3)
043191	Plain steel clutch plates (5)
043192	Double-sided friction plates (5)
043193	Single-sided friction plate
043362	Pressure plate
043341	Clutch spring studs (3)
040358	Clutch springs (3)
040388	Clutch-spring cups (3)
040389	Spring adjustment nuts (3)
040356	Clutch-stud-to-centre nuts (3)
040360	Pressure-plate adjuster
040376	Adjuster lock nut
040373	Clutch retaining nut
040374	Clutch nut lock washer

CLUTCH OPERATING PARTS

040607	Clutch rod
040029	Operating lever
040059	Operating lever body
040003	Operating body locking ring
040031	Operating ball
040060	Operating roller
040065	Roller sleeve
000457	Roller screw
011846	Roller screw nut

KICKSTART

040477	Kickstart axle with bush
040146	Axle bush
040017	Axle pawl
040033	Pawl pin
040044	Pawl spring
040069	Pawl plunger
040042	Axle stop

<u>Part No.</u>	<u>Description</u>
040071	Axle cam
040041	Kickstart-axle cam rivet
040474	Kickstart-axle stop rivet
040023	Mainshaft nut (kickstart end)
040636	Kickstart crank assembly
040637	Kickstart crank (folding)
040431	Folding crank pedal pin
040432	Pedal pin domed nut
040433	Pedal-pin spring washer
000010	Pedal pin plain washer
040102	Crank-to-axle clamping bolt
040475	Kickstart return spring

ENGINE PLATES & BOLTS

033089	Engine plates (front) (2)
033183	Front engine-to-frame stud
000010	Front engine-plate-to-frame-stud washers (2)
000003	Front engine-plate-to-frame-stud nuts (2)
000303	Front engine-plate-to-engine stud
014119	Front engine-plate-to-engine stud washers (2)
000003	Front engine-plate-to-engine-stud nuts (2)
033194	Front engine-plate-lug spacer
033195	Front engine-plate-lug spacer (timing side)
033114	Engine plate (rear left side)
033115	Engine plate (rear right side)
000304	Rear engine-plate stud (top)
014119	Rear engine-plate top-stud washers (2)
000003	Rear engine-plate top-stud nuts (2)
033137	Rear engine-plate top-stud spacer
000304	Rear engine-plate stud (centre)
014119	Rear engine-plate centre-stud washers (2)
000003	Rear engine-plate centre-stud nuts (2)
033137	Rear engine-plate centre-stud spacer
014736	Rear engine-plate stud (bottom)
014117	Rear engine-plate bottom-stud washers (2)
000004	Rear engine-plate bottom-stud nuts (2)
025054	Rear engine-plate bottom-stud spacer

FRONT FORK

033193	Fork assembly
026725	Crown and stem assembly
026530	Fork stops (pinch bolt) (2)
000003	Fork-stop nuts (2)
000193	Fork-stop washers (2)
026727	Handlebar lug
000051	Grease nipple (handlebar lug)
021741	Fork-crown stem adjusting nut

Part No.Description

021811	Fork-crown stem lock nut
022823	Inner fork tubes (2)
021911	Inner-tube rubber sleeves (6)
021495	Fork inner-tube bottom bushes (2)
021651	Bottom-bush circlips (4)
027047	Inner-tube top bolts (2)
014355	Inner-tube top-bolt sealing rings (2)
022216	Inner-tube top-bolt grommets (2)
022794	Slider with cap, studs and nuts (2)
022799	Fork-slider caps (2)
010713	Fork slider-cap studs (4)
000011	Fork slider cap-stud washers (4)
000004	Fork slider cap-stud nuts (4)
028051	Fork-slider extensions (2)
022700	Fork inner tube plastic bushes (2)
022699	Fork inner-tube oil seals (2)
016782	Main springs (2)
021785	Leather washers (top) (2)
021786	Leather washers (bottom) (2)
031546	Cover tube (top left)
031547	Cover tube (top right)
021742	Top cover tube spigot rings (2)
021912	Top cover-tube housings (2)
028046	Cover tubes (bottom) - silver (2)
021910	Bottom cover-tube rubber seats (2)
000485	Slider drain screws (2)
000203	Drain-screw washers (2)
028048	Fork-damper tubes (2)
010697	Damper-tube-to-slider bolts (2)
010706	Damper-tube-bolt fibre washers (2)
017357	Fork-damper rods (2)
000004	Damper-rod nuts (top end) (2)
016072	Damper plunger sleeves (2)
016339	Damper-rod sleeve clips (2)
016304	Damper valves (2)
010721	Damper-valve stop pins (2)
010719	Damper-valve seats (2)
000005	Damper valve-seat nuts (2)
020463	Fork-extension gaiters (2)
042775	Fork-gaiter clips (4)
030517	'Made in England' transfer

FRAME

033125	Frame
000304	Rear engine-lug studs (top) (2)
014119	Rear engine-lug top-stud washers (4)
000003	Rear engine-lug top-stud nuts (4)
033157	Rear engine-lug stud spacers (2)

<u>Part No.</u>	<u>Description</u>
033154	Engine-to-frame stud (bottom)
031589	Front engine-stud spacer
000011	Engine-to-frame bottom-stud washers (2)
000004	Engine-to-frame bottom-stud nuts (2)
012620	Handlebar-lug race
000806	Frame headlug top and bottom races (2)
000805	Fork-crown race
000072	Steering-head ball (56 set)

SWINGING ARM

033053	Swinging arm
032184	Swinging-arm bearings (4)
032183	Swinging-arm spindle
000176	Spindle washers (2)
000292	Spindle nuts (2)
032196	Bearing spindle tube
032097	Rear-chain adjusters (2)
014734	Rear chain adjuster nuts (2)

REAR SUSPENSION

030248	Rear suspension units complete (2)
025248	Rear-suspension top bolts (2)
000010	Rear-suspension top-bolt washers (4)
000003	Rear-suspension top-bolt nuts (2)
029627	Rear suspension bottom bolts (2)
22636	Rear-suspension bottom-bolt washers (2)
000003	Rear-suspension bottom-bolt nuts (2)

PROP STAND

23877	Prop stand leg only	033074	
16174	Prop-stand leg pivot	033273	
x 25175	Prop-stand clip-lug	033272	clip
25176	Prop-stand clip lug (back)		
x 25179	Prop-stand clip-lug stud		
x 11824	Prop-stand clip-lug stud nut		
x 033158	Prop-stand clip-lug bolt		
16176	Prop-stand return spring		

FOOTRESTS

033092	Footrest assembled (left hand)
033096	Footrest assembled (right hand)
033098	Footrest-support spacer (left hand)
000010	Footrest-support washer
000003	Footrest-support nut
032206	Footrest-mounting studs (2)

<u>Part No.</u>	<u>Description</u>
016213	Footrest mounting-stud washers (4)
032305	Footrest-mounting-stud nuts (4)
031913	Footrest-support bolt (right hand)
000010	Footrest support-bolt washer
029859	Footrest arms (folding) (2)
011599	Footrest-arm bolts (2)
000073	Footrest-arm bolt nuts (2)
033097	Footrest-support stud (right hand)
000010	Footrest-support stud washer
031800	Footrest-support stud nut

FRONT MUDGUARD

027025	Front mudguard only - polished
010624	Mudguard bridge-to-slider studs (2)
014117	Mudguard-bridge-stud washers (2)
000004	Mudguard bridge-stud nuts (2)
010795	Mudguard bridge-to-slider bolts (2)
000192	Mudguard-bridge bolt washers (2)
013928	Mudguard stay (front position)
013929	Mudguard stay (rear position)
010795	Stay-to-slider bolts (4)
000011	Stay-to-slider bolt plain washers (2)
000192	Stay-to-slider bolt spring washers (4)
012565	Stay-to-mudguard bolts (8)
000039	Stay-to-mudguard bolt washers - small (8)
024236	Stay-to-mudguard bolt washers - large (8)
000190	Stay-to-mudguard bolt spring washers (8)
000080	Stay-to-mudguard bolt nuts (8)

REAR MUDGUARD

033138	Rear mudguard only - polished
14481	Mudguard fixing bolts (4)
000012	Mudguard fixing-bolt washers (8)
018160	Mudguard fixing-bolt nuts (4)
011094	Mudguard fixing-bolt grommets (4)
033127	Rear mudguard stay
032213	Mudguard-stay sleeves (2)
000342	Mudguard stay bolts (2)
000012	Mudguard stay-bolt washers (2)

HANDLEBAR

031651	Handlebar - bare
021978	Handlebar half clip
016947	Half-clip screws (3)

<u>Part No.</u>	<u>Description</u>
<u>REAR NUMBER PLATE</u>	
029760	Plate only - bare
14481	Number-plate bolt
12343	Number-plate bolt
000012	Number-plate bolt washers (4)
018160	Number-plate bolt nuts (2)
011094	Number-plate bolt grommets (2)
029758	Number-plate bracket

FRONT CHAINCASE

033130	Inner chaincase only
030243	Spacer between chaincase and crankcase
031541	Inner chaincase fixing screws (3)
033140	Spacer for inside chaincase halves
000010	Washer behind chaincase
033120	Chaincase centre stud
000010	Centre-stud washer
031800	Centre-stud nut
033134	Outer chaincase only
042040	Inspection caps (2)
042025	Inspection-cap washers (2)
025037	Joint gasket for chaincase halves
000484	Outer-chaincase screws (14)
13765	Chaincase drain bolt
000200	Drain-bolt fibre washer

RIDER'S SEAT

032134	Seat only - single
21851	Rubber bushes for seat (2)

BRAKE CABLE

25220	Front brake cable complete
042856	Cable adjuster
011373	Cable adjuster lock nut
042764	Plastic brake-cable sleeve - 12 $\frac{1}{8}$ in.

CLUTCH CABLE

25036	Clutch cable complete
042856	Cable adjuster
011373	Cable-adjuster lock nut

AIR CABLE

031612	Air cable complete (handlebar end)
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<u>Part No.</u>	<u>Description</u>
033144	Air cables complete (carburettor end) (2)
018956	Midway adjuster
019824	Junction box for air cable
<u>THROTTLE CABLE</u>	
031612	Throttle cable complete (handlebar end)
033145	Throttle cables complete (carburettor end) (2)
018956	Midway adjuster
019824	Junction box for throttle cable
<u>TWIST & DUMMY GRIP</u>	
016658	Twist grip complete
026476	Slotted abutment for twist grip
023740	Dummy grip
16-070	Grip (twist grip)
16-060	Grip body (top half)
16-061	Grip body (bottom half)
16-091	Rotor for grip
11-013	Half-grip clamping screw - long
11-014	Half-grip clamping screw - short
16-008	Friction spring
16-009	Friction-spring screw
16-010	Friction-spring-screw nut
<u>CLUTCH LEVER</u>	
026258	Clutch lever assembly - ball ended
023707	Clutch-lever trunnion
022714	Clutch lever only - ball ended
18-814	Clutch-lever body
18-087	Lever-pivot screw
18-053	Lever pivot-screw nut
12-595	Body clamp
11-014	Clamp screws (2)
<u>FRONT BRAKE & AIR LEVER</u>	
026320	Front brake and air lever assembly
023707	Brake-lever trunnion
022715	Brake lever - ball ended
18-812	Brake-lever body
18-087	Brake-lever pivot screw
18-053	Lever pivot-screw nut
12-556	Air lever only
12-594	Air-lever body
12-607	Air-lever central bolt
12-606	Air-lever cap

<u>Part No.</u>	<u>Description</u>
12-033	Air-lever spring washer
11-013	Clamping-body screw - long
11-014	Clamping-body screw - short

PETROL TANK

033061	Petrol tank - Candy Apple Red
009195	Petrol-tank transfer - 'Reserve'
048499	Tank motifs - 'M' (2)
048500	Rubber seatings for 'M' motif (2)
25217	Petrol-tank motifs - 'Norton' (2)
25197	Tank-motif rubber seatings - 'Norton' (2)
000873	Tank-motif screws - 'Norton' (4)
031553	Tank-motif screws - 'M' (4)
033001	Tank filler cap
17735	Tank-cap split pin
033155	Main tap with tube in filter
031746	Reserve tap without tube in filter
000183	Tap washers (2)
19402	Petrol feed pipe - rubber (left hand) $3\frac{1}{2}$ in.
19402	Petrol feed pipe - rubber (right hand) $6\frac{3}{4}$ in.
19402	Rubber pipe for 'T' piece - $7\frac{1}{2}$ in.
021844	Petrol pipe 'T' piece
22017	Petrol pipe nipples (2)
000513	Petrol-pipe union nuts (2)
027138	Tank-support rubber
026359	Tank-support rubber - thin
027137	Rubber strap for tank mounting
027161	Tank bolts (2)
021174	Tank-bolt rubbers (2)
014995	Tank-bolt rubber buffers (2)
021453	Tank-bolt washers (2)
000177	Tank-bolt inner washers (2)
016845	Tank-bolt nuts (2)

OIL TANK & OIL PIPES

033148	Oil tank bare - black
023277	Tank 'top level' transfer
021282	Tank filler cap
021329	Tank filler-cap washer
033191	Tank fixing bolts (4)
042272	Tank fixing-bolt washers (4)
014995	Tank fixing-bolt rubbers - thick (4)
014996	Tank fixing-bolt rubbers - thin (4)
19629	Tank breather hose - 24 in.
25348	Feed-pipe filter assembly
E.6640	Feed-pipe-filter washer
000950	Feed-pipe rubber hose - $14\frac{1}{2}$ in.

<u>Part No.</u>	<u>Description</u>
023376	Feed-pipe rubber-hose ferrules (2)
000950	Return-pipe rubber hose - 15 $\frac{1}{2}$ in.
023376	Return-pipe rubber-hose ferrules (2)
033190	Oil-pipe bracket
033165	Junction block and oil pipes assembled
032044	Junction-block gasket
030448	Junction-block bolt
000951	Plastic sleeve for oil pipes - 5 in.

EXHAUST PIPES

033116	Exhaust pipe (left hand)
033118	Exhaust pipe (right hand)
18092	Exhaust pipe lock rings (2)
T.2166	Exhaust pipe lock-ring washers (2)

SILENCER

033151	Silencers only (2)
025059	Silencer clips (2)
000367	Clip bolts (2)
000192	Clip-bolt spring washers (2)
000011	Clip-bolt plain washers (2)
000004	Bolt nuts (2)

CRANKCASE SHIELD

033086	Crankcase shield
026491	Shield clips (2)
042265	Shield bolts (2)
000011	Shield-bolt washers (2)
000004	Shield-bolt nuts (2)

AIR FILTER

033188	Air-filter element
033187	Filter element body half (inner)
033186	Filter element body half (outer)
033189	Filter element body stud
000012	Filter-stud washers (2)
000005	Filter-stud nuts (2)
033027	Filter-mounting sleeves (2)

CABLE CLIPS

011907	Rubber cable clips - short (3)
026880	Rubber cable clips - medium (6)
026881	Rubber cable clips - long (2)

<u>Part No.</u>	<u>Description</u>
<u>FRONT WHEEL</u>	
032318	Front wheel complete with brake
032319	Wheel only
024248	Rim only - WM2-19
021152	Spokes (40)
021154	Spoke nipples (40)
029251	Hub shell with liner
029261	Hub spindle
029264	Spindle bearings (2)
029271	Hub disc
029265	Tube between bearings
029269	Bearing retainer
029270	Felt seal
029237	Oil seal
029268	Oil-seal collar
029238	Bearing-retaining lock ring
029263	Oil seal
029262	Oil-seal collar
000001	Hub-spindle nut
000008	Hub-spindle washer (outer)
029246	Hub-spindle nut (inner)
029221	Cover-plate spacer (outer)
029258	Cover plate assembled
000051	Grease nipple
029260	Brake shoes pivot pin
000011	Pivot-pin washer
000004	Pivot-pin nut
029247	Brake shoes with linings (1 pair)
029248	Brake-shoe linings (1 pair)
000113	Brake-shoe lining rivets (16 set)
029226	Brake-shoe springs (2)
013291	Adjusting thrust pins (2)
029489	Brake-shoe expander
029272	Expander lever
000009	Expander-lever washer
024546	Expander-lever nut
000736	Clevis pin for lever
000014	Split pin for clevis pin

BRAKE ANCHOR

021474	Cover-plate anchor arm
014807	Anchor-arm/cover-plate bolt
014119	Anchor-arm bolt washer
019629	Brake cable yoke end

REAR WHEEL

033197	Rear wheel complete with bearings only
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<u>Part No.</u>	<u>Description</u>
033198	Rear wheel only
033051	Rear rim only - WM3-18
030366	Spokes (40)
021694	Spoke nipples (40)
033052	Hub shell only
014868	Hub bearings (2)
021586	Hub-bearing spacer
012436	Oil seal packing washer
018095	Oil seal retaining ring - large
021585	Oil seal retaining ring - small
014387	Oil seal
018094	Oil-seal cups (2)
010740	Oil-seal circlip
021608	Oil-seal spacers (2)
021583	Bearing adjuster
021584	Bearing adjuster lock ring
033124	Rear-hub spindle
033083	Hub-spindle spacer
014869	Hub-spindle nut
033090	Hub-spindle-nut spacer
028070	Speedometer/gearbox spacer
021454	Speedometer/gearbox washer
028073	Speedometer/gearbox locating bush
029242	Speedometer/gearbox nut

REAR-SPROCKET & BRAKE

025225	Sprocket and brake drum
025247	Brake drum/sprocket bolts (5)
016213	Brake drum/sprocket bolt washers (5)
023281	Brake drum/sprocket bolt nuts (5)
033081	Rear brake cover plate assembly
000051	Grease nipple
012891	Brake-shoe expander
013620	Rear brake shoes with linings (1 pair)
010440	Rear brake-shoe linings (1 pair)
000113	Rear brake-shoe lining rivets (14 set)
012892	Brake-shoe return springs (2)
013291	Brake-shoe adjusting thrust pins (2)
033171	Brake-shoe-expander lever
000174	Expander-lever washer
000004	Expander-lever nut
033031	Cover-plate spacer (inner)
028071	Cover-plate spacer (outer)
033059	Torque strap
019625	Torque-strap bolts (2)
000010	Torque-strap-bolt washers (2)

<u>Part No.</u>	<u>Description</u>
016845	Torque-strap-bolt nuts (2)

REAR-BRAKE OPERATING PARTS

033162	Rear-brake pedal
023269	Brake-pedal bolt
032162	Brake-pedal pivot or sleeve
000010	Brake-pedal bolt washers (2)
023281	Brake-pedal-bolt nut
022297	Brake rod
000005	Brake rod adjusting nuts (2)
017227	Brake-rod adjusting clip
023299	Brake-rod yoke
000736	Brake-rod clevis pin
000014	Split pin

SPEEDOMETER & REVOLUTION COUNTER

030258	Speedometer head
030344	Speedometer cable complete
024448	Speedometer/gearbox drive (BG-5330-267)
030435	Light lead to speedometer head (Lucas 54934904)
030391	Revolution-counter head
030392	Revolution-counter cable complete
030435	Light lead to revolution-counter head (Lucas 54934904)
033063	Revolution-counter head bracket - black
031552	Claylastic strips (2)
24563	Gearbox/revolution counter drive (BG1508-05)
000455	Gearbox/revolution counter drive screws (2)
000190	Gearbox drive screw spring washers (2)

HEADLAMP

033166	Headlamp with harness (Lucas 54052779)
	Headlamp less harness
031540	Headlamp-bolt washers (2)
031555	Headlamp-bolt spacers (2)
	Headlamp fixing bolts (2)
	Light unit - reflector and glass
	Headlamp rim only
144921	Rim fixing screw
534296	Rim fixing plate

REAR LAMP

24840	Rear lamp (Lucas 53973 A/B Type 679)
54572932	Lamp lens
572289	Lens-fixing screws (2)

Part No.Description

54571677 Lamp-seating gasket
380 Bulb, 12 volt, 21 x 6 watt transverse (offset pin)

ELECTRICAL EQUIPMENT

029632 Alternator (rotor and stator) (54021027)
47162A Stator
54213901 Rotor
041065 Alternator grommet
030251 Alternator-rotor spacer
20948 Alternator-rotor key
24948 Alternator-rotor washer
24947 Alternator-rotor nut
011826 Alternator studs (3)
000012 Alternator-stud washers (3)
011843 Alternator-stud nuts (3)
031834 Contact breaker (54041114)
020319 Contact-breaker cam bolt
000012 Contact-breaker cam-bolt washer
015306 Contact-breaker cam-bolt washer (fan disc)
029983 Contact-breaker fixing screws (2)
029984 Contact-breaker fixing screw washers (2)
033067 Contact-breaker shaft
030080 Contact-breaker shaft pin
033007 Contact-breaker shaft sprocket
033068 Contact-breaker shaft bearing
033066 Contact-breaker housing
030082 Contact-breaker cover
033056 Contact-breaker cover gasket
030558 Contact-breaker cover grommet
030084 Contact breaker cover spring clip
031921 H.T. leads (54934904) (2)
25105 Contact-breaker housing bolt
010706 Contact-breaker housing-bolt washer
015306 Contact-breaker housing-bolt washer (fan disc)
E.3229 Contact-breaker housing-bolt nut
T.2245 Contact-breaker housing studs (2)
11796 Contact-breaker housing-stud washers (2)
E.3231 Contact-breaker housing-stud nuts (2)
T.2191 Contact-breaker housing-flange gasket
031075 Capacitor (Lucas 54170009)
031080 Capacitor spring
22034 Capacitor-spring bolt
000012 Capacitor-spring bolt washers (2)
E.3229 Capacitor-spring bolt nut

Part No.DescriptionHORN

030045	Electric horn 8H 70159 B/D
000342	Horn fixing bolts (2)
000012	Horn fixing-bolt washers (2)
000005	Horn fixing-bolt nuts (2)
030044	Horn bracket

RECTIFIER, COIL & ZENER DIODE

029604	Rectifier only (Lucas 49072A)
015306	Rectifier washer
033057	Rectifier nut
033015	Coils only (2)
000070	Coil fixing bolts (4)
000012	Coil fixing-bolt washers (8)
000005	Coil fixing-bolt nuts (4)
033100	Coil rubbers (2)
030051	Zener diode (Lucas 49345A)
032018	Heat sink plates for zener diode (2)
030043	Heat sink-plate spacer
000367	Zener diode bolt
017497	Zener diode bolt spacer
000011	Zener diode bolt washer
033057	Zener diode bolt nut
015306	Zener diode bolt washer

BATTERY & FITTINGS

033049	Battery (Lucas PUZ5A)
033184	Battery strap
028044	Battery-strap pins (2)
026359	Battery cushioning pad - large
033185	Battery cushioning pad - small

STOPLIGHT

031621	Stoplight switch (Lucas 54338642)
000451	Stoplight-switch screws (2)
000039	Stoplight-switch washers (2)
000080	Stoplight switch-screw nuts (2)
033173	Brake-switch cable (Lucas 54941658)

SWITCHES

033016	Ignition switch
033044	Ignition-switch lock with 2 keys

<u>Part No.</u>	<u>Description</u>
033174	Ignition-switch bracket
022548	Dipping and horn switch (Lucas 31563D)
021299	Dipping and horn switch screws (2)
380459	Dipping and horn switch rubber pad
030170	Lighting switch (Lucas 54033190)
033170	Ignition cut-out button (Lucas 35601)
033167	Cut-out button lead (Lucas 54952938)

ELECTRICAL SUNDRIES

031921	H.T. cables for sparking plug, with cover (2)
032057	Sparking plugs (Champion N4) (2)

STEERING DAMPER

022060	Steering damper complete
017260	Adjusting damper knob
010808	Steering damper cap
000195	Steering-damper spring washer
000162	Steering-damper ratchet washer
017008	Steering-damper anchor plate
014577	Steering-damper anchor-plate bolts (2)
000012	Anchor-bolt plain washers (2)
000191	Anchor-bolt spring washers (2)
000812	Friction discs (2)
010807	Draw stud
000073	Damper sleeve lock nut
015137	Anchor sleeve

DECARBONISING SET

033199	Decarbonising set complete comprising:-
25318	Cylinder-head gasket
24249	Cylinder-base gasket
T.2084	Rocker-cover gasket
T.2088	Rocker-cover gaskets (2)
T.2083	Rocker-shaft joint washers (4)
T.2240	Rocker-shaft plate joint washers (4)
T.2166	Exhaust pipe nut washers (2)

OVERHAUL GASKET SET

033200	Overhaul gasket set comprising:-
033199	Decarbonising set
T.2236	Timing-cover gasket

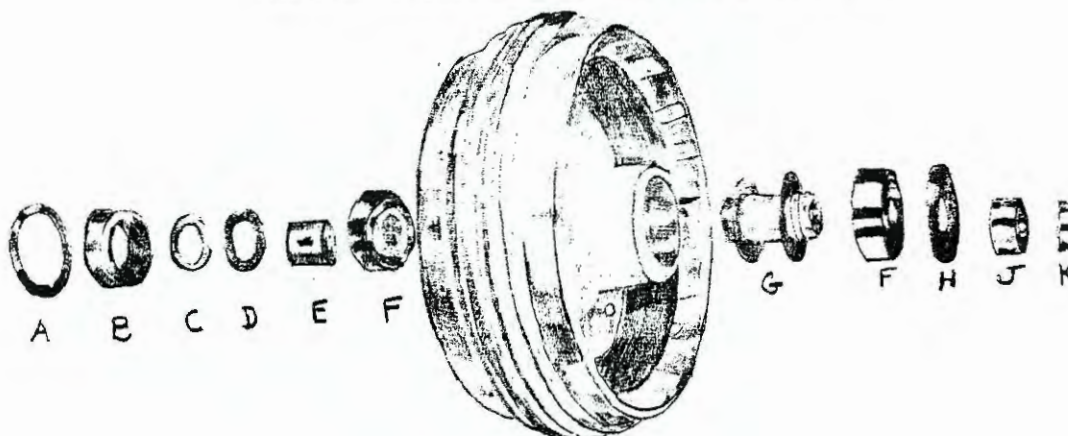
Part No.Description

048023	Oil seal (timing side)
T.2187	Oil seal (driving side)
16949	Filter-body washer
20621A	Timing-cover screw washers (12)
T.272	Oil-pump sealing washer
033056	Contact-breaker cover gasket
T.2191	Contact-breaker housing-flange gasket
021329	Oil-tank filler-cap gasket
025037	Outer-portion front-chaincase gasket
042025	Chaincase inspection-cap gaskets (2)
T.1084	Rocker feed-pipe banjo washers (6)

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BERLINER TECHNICAL INFORMATION

P-11

Proper Assembly of the Front WheelRight SideFront ViewLeft Side

Left Side: As sitting on machine, same side as clutch and primary drive and rear brake.

ILLUSTRATED PARTSRight Side

- A - Bearing retainer lock ring 029238
- B - Threaded bearing retainer 029269
- C - Felt washer 029270
- D - Oil seal 029237 (1-1/2 X 1-1/8 X 1/4)
- E - Spacer 029268 (1-1/8 X 3/4 X 1-7/32)
- F - Ball bearing 029264

Left Side

- G - Bearing spacing tube 029265
- F - Ball bearing 029264
- H - Oil seal 029263 (2 X 1-1/4 X 1/4)
- J - Spacer 029262 (1-1/4 X 2-3/32 X 11/32)
- K - Outer brake plate spacer 029221

- (1) Loosen Lock Ring A and check to insure Retainer B is tight, then refit Lock Ring A.
- (2) Apply nominal amount of grease to Spacers E and J. Install wide Spacer E on disc side and Spacer J on brake side. Insure the chamfer faces inward on both spacers.
- (3) Install Spacer K with chamfer facing small axle nut against abutment.
- (4) Install brake plate.
- (5) Install axle from brake plate side then fit large nut snug but not tight.

- (1) Before installing handlebars, check the steering head bearing adjustment to insure there is no play in any position and movement of assembly does not bind.
- (2) Check each fork leg to insure no bind in travel is evident.
- (3) Remove the slider drain plug and by working the leg up and down, pump out the remaining oil, then replace plug.
- (4) Remove the top main tube nuts and refill each leg with six ounces of No. 20 or No. 30 oil and refit nuts.
- (5) Install front fender braces but do not tighten.
- (6) Install bracket plate anchor arm on the left side with the hole and threaded abutment facing to the front, but do not tighten.
- (7) Remove caps from bottom of fork legs and install wheel with the brake plate on the left side, refitting caps and axle nut snug but do not tighten.
- (8) Install brake cable.
- (9) Loosely install anchor plate bolt.
- (10) Apply front brakes to centralize the brake plate, tighten both axle nuts, fork leg caps, and anchor bolt.
- (11) Tighten all fender bolts.
- (12) By exerting pressure on the handlebars astride the machine with the brake on, check to insure there is smooth fork action.

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