

1945-1954

B.S.C.

AUTOMOTIVE SERVICE MANUAL

This Manual contains essential Bearing data on most Passenger Cars and Motor Cycles in use in Australia from 1945 to 1954 inclusive.

All Tapered Roller Bearing data is designated by the "TIMKEN" Roller Bearing symbol. Ball and Cylindrical Roller Bearing data is, in the main, designated by "HOFFMANN" and "F.B.C." symbols, but "FAFNIR" symbols have been employed for Maximum-Load ball types whilst "N.D." numbers have been used for standard shielded, sealed, and snap-ring type ball bearings. For Continental vehicles, where special bearings are employed, the symbol used is that of the principal factory of that country, e.g., Germany, "FAG"; France, "S.N.R.", etc. Flexible, Solid, Hi-Load, and Barrell Roller Bearing data is designated by the "R.B.C." (or Hyatt) Roller Bearing symbol, whilst "TORRINGTON" symbols are employed for Needle Roller Assemblies. "NICE" numbers are used for King Pin and Clutch Thrust Bearings in American vehicles.

When ordering, it is recommended you state: Make of Vehicle, Year and Model, position where bearing is being replaced, and if possible any symbols and markings shown on the old bearings, for, whilst every care has been exercised in the compilation of this catalogue, no responsibility can be assumed for errors.

Write or ring for any bearing not listed.

We hope this "Service Manual" will help you to increase your business.

Bearing Service Co. of Australia Pty. Ltd.

No. 54

Issued October, 1955

If it's a Bearing we have it.



N°54

B.S.C.

AUTOMOTIVE SERVICE MANUAL

Bearing Service Co. of Australia Pty. Ltd.

MELBOURNE

SYDNEY

ADELAIDE

BRISBANE

PERTH



INDEX

MOTOR CYCLES

Make	Page	Make	Page
ADLER	66	JAMES	74
AMBASSADOR	66	JAWA (Motokov)	74
A.J.S.	66	LAMBRETTA	74
ARIEL	66-68	MATCHLESS	74
BELLA—See Zundapp		NORMAN	74
B.M.W.	68-69	NORTON	74-75
BOWN	69	N.S.U.	76
B.S.A.	69-71	P. & M. PANTHER	76
BURMAN GEAR BOXES	71	ROYAL ENFIELD	76-77
CORGI	71	SUN	77
C-Z	71	SUNBEAM	77
D.K.W.	71-72	TRIUMPH	77
DOT	72	VESPA—See Douglas	
DOUGLAS	72	VELOCETTE	77-78
EXCELSIOR	72-73	VICTORIA	78
FRANCIS BARNETT	73	VILLIERS	78
HEINKEL	73	VILLIERS ENGINES	78-79
HOREX	73	VINCENT-H.R.D.	79-80
H.R.D.—See Vincent		ZUNDAPP	80
INDIAN	73		



Adler

ADLER—1950 "M-100," 98 cc.

Front Wheel, R.H. & L.H., 7502.
Steering, head race, (FAG), 200313, Cups (2 used),
200314, Cone (1 used),
200315, Cone (1 used),
14 pcs., Steel Balls, 5 mm.

Crankshaft, 2 used, B017.
Connecting Rod, 15 pcs., Steel Rollers, 5.5 mm. x 8 mm.

GEAR BOX—

Driving Shaft (to engine, 20000), 115.
Driving Shaft (from engine, 20001), 16006 and two R.B.C.
type rollers, 17 x 21 x 15 mm.

Countershaft, two R.B.C. type rollers, 14 x 18 x 15 mm.
Rear Wheel, R.H. & L.H., 7502.

ADLER—1951 "M125 (with M125/3 Engine), 123 cc., 3 Speed.

Front Wheel, R.H. & L.H., 7603.
Steering, head race, (FAG) 200313 (2 used),
200314 (1 used),
200315 (1 used),
14 pcs., Steel Balls, 5 mm.

Crankshaft, (FAG) M20.
Connecting Rod (to Engine, 1516), 17 pcs., Steel Rollers, 5 mm.
x 8 mm.

Connecting Rod (from Eng, 1517), 34 pcs., Steel Rollers, 5
mm. x 5 mm.

Clutch Thrust, 51102.

GEAR BOX—

Driving Shaft, 115.
Driving Shaft (some models), 16006 and two R.B.C. type
rollers, 17 x 21 x 15 mm.

Countershaft, two R.B.C. type rollers, 14 x 18 x 15 mm.
Rear Wheels, two 7603 and one 125.

ADLER—1951 onwards "M150," 147 cc., 4 Speed.

Front Wheel, R.H. & L.H., 7603.
Steering, 2 used, (FAG), 74151.
Crankshaft, R.H., R320E.
Crankshaft, centre, R125E.
Crankshaft, L.H., 315.
Connecting Rod (to engine, 1516), 17 pcs., Steel Rollers, 5 mm.
x 8 mm.

Connecting Rod (from engine, 1517), 34 pcs., Steel Rollers, 5
mm. x 5 mm.

Clutch, 16006.

GEAR BOX—

Primary Shaft, 9106K and R315E less I.R.
Secondary Shaft, 312 and 320.
Rear Wheel, two 7603 and one 125.

ADLER—1951 "M200," Twin, 195 cc., 4 Speed. 1953 "M250," Twin, 247 cc., 4 Speed.

Front Wheel, R.H. & L.H., 7603.
Steering, 2 used, (FAG) 74151.
Crankshaft, R.H., R320E.
Crankshaft, centre, R320E and R125E.
Crankshaft, L.H., 315.
Connecting Rod, 34 pcs., Steel Rollers, 5 mm. x 8 mm.; 68
pcs. Steel Rollers, 5 mm. x 5 mm.

Clutch, 16006.

GEAR BOX—

Primary Shaft, 9106K and R315E less I.R.
Secondary Shaft, 312 and 320.
Rear Wheels, two 7603 and one 125.

ADLER—1954 "M201," 198 cc., 4 Speed.

Front Wheel, R.H. & L.H., 7603.
Steering, 2 used, (FAG) 74151.

Crankshaft, R.H., R325E.
Crankshaft, centre, R325E.
Crankshaft, L.H., 315.
Connecting Rod, 51 pcs., Steel Rollers, 5 mm. x 5 mm.
Clutch, 16006

GEAR BOX—

Primary Shaft, 9106K and R315 less I.R.
Secondary Shaft, 312 and 320.
Rear Wheel, two 7603 and one 125.

Ambassador

AMBASSADOR—"Popular Embassy." "Supreme."

Front Wheel, 20 pcs., Steel Balls, 5/16".
Steering Head, 44 pcs., Steel Balls, 3/16".
Engine Driving Shaft, 1 each, 120 and 320.
Gear Box, 125.

Rear Wheel—"Popular Embassy," 20 pcs., Steel Balls, 5/16".
Rear Wheel—"Supreme," 26 pcs., Steel Balls, 1/4".

A.J.S.

A.J.S.—1945-1946 250 cc.
350 cc.
500 cc.

ENGINE MAINSHAFT—

Driving Side, 1 each, MS10, and RMS10.

A.J.S.—1945-1946 990 cc., Twin.

ENGINE MAINSHAFT—

Driving Side, 1 each, MS109 and RMS10.

A.J.S.—1946-1951 "16 and 16MS," 350 cc.

1951 "18 and 18MS," 500 cc.

1950-1951 500 cc., Twin—Rigid Frame.

1950-1951 500 cc., Twin—Spring Frame.

Steering Head, upper & lower, 56 pcs., Steel Balls, 3/16".
Generator, 108.

Magneto, C.B.E.—Single Cyl., A15.

Magneto, D.E.—Single Cyl., A15.

Magnets, C.B.E.—Twin Cyl., A15.

Magneto, D.E.—Twin Cyl., A18.

Crankshaft (2 used), RLS12.

Engine Mainshaft, driving side (2 used), LS10.

Gear Box, driving gear, N1540.

Gear Box, mainshaft, 117.

Rear Wheel—Rigid Frame, 00081X-00150.

A.J.S.—1949 onwards "7R," 350 cc.

Front Wheels, LS8 and RLS8.

Crankshaft, timing side, MS10.

Half Time Gear Shaft (2 used), LS5.

Camshaft, LS7.

Rear Wheel, LS9 and RLS9.

Ariel

ARIEL—1946-1947 350 cc., O.H.V., Single Cyl.
600 cc., S.V., Single Cyl.

Front Wheel—

Magdyno—Magneto, C.B.E., A15.

Magdyno—Magneto, D.E., N3048.

Magdyno—Generator, 108.

Engine Mainshaft, driving side, LS10 and MS10.

Engine Mainsh
Crankpin Asses
Gear Box, Hig
Gear Box, Ma
Rear Wheel, R

ARIEL—194

Front Wheel—
Magdyno—Ma
Magdyno—Ma
Magdyno—Ge
Engine Main
Engine Main
Crankpin Ass
Gear Box, hig
Gear Box Mi
Rear Wheel,

ARIEL—194

Front Wheel,
Magdyno—M
Magdyno—M
Magdyno—G
Engine Main
Gear Box, hi
Gear Box M
Rear Wheel,

ARIEL—19

/

Front Wheel
Magdyno—M
Magdyno—M
Magdyno—G
Engine Main
Engine Main
Gear Box, I
Gear Box N
Rear Wheel

ARIEL—19

Front Whee
Magdyno—
Magdyno—
Magdyno—
Engine Main
Engine Main
Crankpin A
Gear Box,
Gear Box N
Rear Whee

ARIEL—1

Front Whee
Generator,
Generator,
Generator,
Magneto (E
Engine Ma
Gear Box,
Gear Box
Rear Whe
Rear Whe

ARIEL—

Front Wh
Generator,
Generator,

BSC





Motor-Cycle Application Data

HOFFMANN
BALL & ROLLER
BEARINGS

Engine Mainshaft, timing side, LS10.
Crankpin Assembly, L4029.
Gear Box, High Speed, N1540.
Gear Box, Mainshaft, kick starter end, 117.
Rear Wheel, R.H. & L.H., 1163X-1120NI.

ARIEL—1946-1947 "Red Hunter," 500 cc., O.H.V., Single Cyl.

Front Wheel—
Magdyno—Magneto, C.B.E., A15.
Magdyno—Magneto, D.E., N3048.
Magdyno—Generator, 108.
Engine Mainshaft, driving side, LS10 and RMS10.
Engine Mainshaft, timing side, RL10L.
Crankpin Assembly, L3320.
Gear Box, high speed, 5341.
Gear Box Mainshaft, K/S end, 320.
Rear Wheel, R.H. & L.H., 1163X-1120NI.

ARIEL—1947-1948 500 cc., Twin.

Front Wheel, R.H. & L.H., MS8.
Magdyno—Magneto, C.B.E., A15.
Magdyno—Magneto, D.E., N3048.
Magdyno—Generator, 108.
Engine Mainshaft, driving side, RM11L.
Gear Box, high speed, N1540.
Gear Box Mainshaft, K/S end, 117.
Rear Wheel, 1163X-1120NI.

ARIEL—1948 "Red Hunter," 500 cc., O.H.V., Single Cyl.

Front Wheel—
Magdyno—Magneto, C.B.E., A15.
Magdyno—Magneto, D.E., N3048.
Magdyno—Generator, 108.
Engine Mainshaft, driving side, LS10 and RMS10.
Engine Mainshaft, timing side, L3320.
Gear Box, high speed, 5341.
Gear Box Mainshaft, K/S end, 320.
Rear Wheels, 1163X-1120NI.

**ARIEL—1948 350 cc., O.H.V., Single Cyl.
600 cc., S.V., Single Cyl.**

Front Wheels—
Magdyno—Magneto, C.B.E., A15.
Magdyno—Magneto, D.E., N3048.
Magdyno—Generator, 108.
Engine Mainshaft, driving side, LS10 and MS10.
Engine Mainshaft, timing side, LS10.
Crankpin Assembly, L4029.
Gear Box, High Speed, 5341.
Gear Box Mainshaft, K/S end, 320.
Rear Wheel, 1163X-1120NI.

**ARIEL—1949 "KG," Twin, 600 cc.
"KH," Twin, 500 cc.**

Front Wheel R.H. & L.H., MS8.
Generator, comm. end, 108.
Generator, drive end, 115.
Generator, drive end (some mods.), 108.
Magneto (2 used), A15.
Engine Mainshaft, driving side, RM11L.
Gear Box, high speed, N1540.
Gear Box Mainshaft, K/S end, 117.
Rear Wheel—detachable spring frame, MS8 and LS10.
Rear Wheel—non-detachable spring frame, MS8.
Rear Wheel—rigid frame, 1163X-1120NI.

ARIEL—1949-1952 "KH," Twin, 500 cc.

Front Wheel, R.H. & L.H., MS8.
Generator, 115 and A15.
Generator, 1951-52, 108.

Magneto, C.B.E., 1951-52, A15.
Magneto, D.E., 1951-52, A18.
Engine Mainshaft, driving side, RM11L.
Gear Box, high speed, N1540.
Gear Box Mainshaft, K/S end, 117.
Rear Wheel—detachable, LS10 and MS10.
Rear Wheel—spring frame, MS8.

ARIEL—1949 "NG," 350 cc., Single Cyl.

1949-1952 "NH-Hunter," 350 cc., O.H.V., Single Cyl.

**1949-1952 "VG," 500 cc.
1949-1952 "VB," 600 cc.**

Front Wheel, R.H. & L.H., MS8.
Generator, comm. end, 108.
Generator, drive end, 115.
Generator, drive end (some mods.), 108.
Magneto, contact breaker end, A15.
Magneto, drive end, N3048.
Crankpin Assembly, L4029.
Engine Mainshaft, driving side, MS10 and LS10.
Engine Mainshaft, timing side, LS10.
Gear Box, high speed—mods. NG & NH, N1540.
Gear Box Mainshaft, K/S end—mods. NG & NH, 117.
Gear Box, high speed—mods. VG & VB, 5341.
Gear Box Mainshaft, K/S end—mods. VG & VB, 320.
Rear Wheel—detachable, LS10 and MS10.
Rear Wheel—spring frame, MS8.
Rear Wheel—rigid frame, 1163X-1120NI.

ARIEL—1949 "VB," 600 cc.

Front Wheel, MS8.
Generator, 115 and 108.
Engine Mainshaft, driving side, MS10 and LS10.
Engine Mainshaft, timing side, LS10.
Gear Box, high speed, 5341.
Gear Box Mainshaft, K/S end, 320.
Rear Wheel—spring frame, MS8.

ARIEL—1947-1952 "VH," 500 cc., Single Cyl.

**1949-1952 "VCH."
1951-1952 "VHA."**

Front Wheel, R.H. & L.H., MS8.
Generator, comm. end, 108.
Generator, drive end, 115.
Generator, drive end (some mods.), 108.
Magneto, contact breaker end, A15.
Magneto, drive end, N3048.
Crankpin Assembly, L3320C.
Engine Mainshaft, driving side, RL10L.
Engine Mainshaft, timing side, RMS10 and LS10.
Gear Box, high speed, 5341.
Gear Box Mainshaft, K/S end, 320.
Rear Wheel, detachable spring frame, (2) LS10 and (1) MS10.
Rear Wheel, fixed, spring frame, (2) MS8.
Rear Wheel, fixed, rigid frame, 1163X-1120NI.

ARIEL—1946-1947 "Square Four," 1000 cc., 4 Cyl.

Front Wheel, R.H. & L.H., MS8.
Engine Mainshaft, driving side, RM11L and 8769.
Engine Camshaft, LS8.
Gear Box, high speed, 5341.
Gear Box Mainshaft, K/S end, 320.
Rear Wheels—detachable, LS9 and MS9.

ARIEL—1948-1949 "4G Square Four," 1000 cc., 4 Cyl.

Front Wheel, R.H. & L.H., MS8.
Generator, comm. end, 108.
Generator, drive end, 115.
Engine Mainshaft, driving side, RM11L and 8769.
Engine Camshaft, LS8.
Gear Box, high speed, 5341.
Gear Box Mainshaft, K/S end, 320.

mm. x 5 mm.

Steel Balls, 5/16".
1s, 1/2".

350 cc.

500 cc.

igid Frame.

ring Frame.

Balls, 3/16".

Single Cyl.

gle Cyl.

0.

Clutch Thrusts

BSC have the most comprehensive range of Bearings in Australia



Rear Wheel—spring frame only, MS8.
Rear Wheel—detachable—1948 only, LS9 and MS9.

ARIEL—1949-1952 "4G-Square Four," 1000 cc.

Front Wheel, MS8.
Generator, Comm. end, LS5PP.
Generator, drive end, 115.
Engine Mainshaft, driving side, RM11L and 8769.
Engine, camshaft, LS8.
Gear Box, high speed, 5341.
Gear Box Mainshaft, K/S end, 320.
Rear Hub—detachable spring frame, LS10 and MS8.
Rear Hub—non-detachable spring frame, MS8.

Bella

BELLA—See Zundapp.

BMW

BMW—1948 "R24" (with "224" Motor), 247 cc., 4 Speed.

Front Wheels, R.H. & L.H., 117.
Steering Head (2 used), (FAG) 200185.
Steering Damper, 2 pcs., Steel Balls, 5.5 mm.
Steering Shaft, front, 117.
Steering Shaft, rear, 117.

ENGINE:—

Crankshaft, front, 120.
Crankshaft, centre, 130.
Crankshaft, rear, 130.
Connecting Rod, 12 pcs., Steel Rollers, 7 mm. x 10 mm.
Camshaft (2 used), 117.

GEAR BOX:—

Clutch Shaft, (FAG) 200068.
Primary Shaft, front, 120.
Primary Shaft, rear, 315.
Intermediate or Reduction Shaft, front, 117DR.
Intermediate or Reduction Shaft, rear, 117DR.
Mainshaft, front, 317.
Mainshaft, rear, 120.

REAR WHEEL DRIVE:—

Pinion, front, 117.
Pinion, rear, 5303.
Crown Wheel, 140 and 325.
Crown Wheel, 140 and 325.
Rear Wheel, U317.

BMW—1949-1950 "R24" (with "224" Motor), 247 cc., 4 Speed.

Front Wheel, R.H. & L.H., 317.
Steering (2 used), (FAG) 200185.

ENGINE:—

Crankshaft, front, 120.
Crankshaft, centre, 130.
Crankshaft, rear, 130.
Connecting Rod, 12 pcs., Steel Rollers, 7 mm. x 10 mm.
Camshaft (2 used), 117.

GEAR BOX:—

Clutch Shaft (FAG), 200068.
Gear Box Mainshaft, front, 317.
Gear Box Mainshaft, rear, 120.

REAR AXLE DRIVE:—

Pinion, front, 117.
Pinion, rear, 5303.
Crown Wheel, 140 and 325.
Rear Wheel, U325.

BMW—1950 onwards "R25" (with "224" Motor), 245 cc., "R25/2."

Front Wheel, R.H. & L.H. (3 used), 117.
Front Wheel (some models) (1 used), 5203.
Steering (2 used), (FAG) 200185.

ENGINE:—

Crankshaft, front, 120.
Crankshaft, centre, 130.
Crankshaft, rear, 130.
Connecting Rod, 12 pcs., Steel Rollers, 7 mm. x 10 mm.
Camshaft (2 used), 117.

GEAR BOX:—

Clutch Shaft, (FAG) 200068.
Primary Shaft, front, 120.
Primary Shaft, rear, 315.
Intermediate or Reduction Shaft, front, 5203.
Intermediate or Reduction Shaft, rear, 117.
Mainshaft, front, 317.
Mainshaft, rear, 120.

REAR AXLE DRIVE:—

Pinion, front, R320.
Pinion, rear, 5303.
Crown Wheel, inner, (FAG) 16012.
Crown Wheel, outer, 130.
Rear Wheel (3 used), 117.
Rear Wheel (some models), 5203.

BMW—1950 "R51/2" Twin (with "254" Motor), 494 cc., 4 Speed.

Front Wheel, R.H. & L.H., 120.
Steering (2 used) (FAG) 200185.
Generator, A13 and A8.
Crankshaft (2 used), 135.
Connecting Rod, 2 x 12 ea. pcs., Steel Rollers, 7 mm. x 10 mm.

GEAR BOX:—

Clutch Shaft, (FAG) 20068.
Primary Shaft, front, 125.
Primary Shaft, rear, R120P.
Secondary Shaft (2 used), 320.

REAR AXLE DRIVE:—

Pinion, front, 5304.
Pinion, rear, (FAG) 200439 less O.R.
Pinion, rear, 28 pcs., Needle Rollers, 2.5 mm. x 13.8 mm.
Crown Wheel, 135.
Crown Wheel, 44 pcs., Needle Rollers, 3 mm. x 15.8 mm.
Rear Wheel, R.H. & L.H., 120.

BMW—1951 "R51/3", Twin (with "252" Motor), 490 cc., 4 Speed.

Front Wheel, R.H. & L.H., 120.
Steering (2 used), (FAG) 200185.
Steering Shaft, front, 117.
Steering Shaft, rear, 117.
Generator, 117.
Crankshaft (2 used), 135.
Connecting Rod, 2 x 12 Steel Rollers, 7 mm. x 10 mm.
Camshaft (2 used), 117.

GEAR BOX:—

Clutch Shaft, (FAG) 200068.
Primary Shaft, front, 125.
Primary Shaft, rear, R120P.
Secondary Shaft (2 used), 320.

REAR AXLE DRIVE:—

Pinion, front, 5304.
Pinion, rear, (FAG) 200439 less O.R.
Pinion, rear, 28 pcs., Needle Rollers, 2.5 mm. x 13.8 mm.
Crown Wheel, 135.
Crown Wheel, 44 pcs., Needle Rollers, 3 mm. x 15.8 mm.
Rear Wheel, R.H. & L.H., 120.

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Motor-Cycle Application Data

R. B. C.
FLEXIBLE
ROLLER BEARINGS

"224" Motor)

BMW—1951-1952 "R67/2", Twin (with "267" Motor), 590 cc., 4 Speed.

1951-1952 "R68," Twin (with — Motor), 590 cc., 4 Speed.

Front Wheel, R.H. & L.H., 120.
Steering (2 used), (FAG) 200185.
Steering Shaft, front, 117.
Steering Shaft, rear, 117.
Generator, 117.
Crankshaft, "R67" (2 used), 135.
Crankshaft, front, "R68," 135.
Crankshaft, Rear, "R68," 20207.
Connecting Rod, 2 x 14 pcs., Steel Rollers, 7 mm. x 10 mm.

GEAR BOX:—
Clutch Shaft, (FAG) 200068.
Primary Shaft, front, 125.
Primary Shaft, rear, R120P.
Secondary Shaft (2 used), 320.

REAR AXLE DRIVE:—
Pinion, front, 5304.
Pinion, rear, (FAG) 200439 less O.R.
Pinion, rear, 28 pcs., Needle Rollers, 2.5 mm. x 13.8 mm.
Crown Wheel, 135.
Crown Wheel, 44 pcs., Needle Rollers, 3 mm. x 15.8 mm.
Rear Wheel, R.H. & L.H., 120.

Bown

BOWN—"Autocycle," 98 cc.

Driving Shaft, 125.
Clutch Shaft, 120.

BOWN—"MK. IF" Standard and De Luxe, 98 cc.

Driving Shaft, 125.
Clutch Shaft, L20N and L25N.

BOWN—"125 cc."

Driving Shaft, 120.
Gear Box, 125.

B.S.A.

B.S.A.—1945-1948 "A7," Twin, 500 cc., O.H.V.

Front Wheel, R.H. & L.H., LS9.
Generator, 115.
Magneto, C.B.E., A15.
Magneto, D.E., N3048.
Engine Crankcase, driving side, MS11.
Gear Box, 135.
Gear Box Cover, LS8.
Rear Wheel, R.H. & L.H., LS9.

B.S.A.—1948-1950 "A7," Twin—Spring Frame.
1951-1952 "A7," Twin—Rigid Frame, 500 cc., O.H.V.

Front Wheel, R.H. & L.H., LS9.
Generator, comm. end, 108.
Generator, drive end, 115.
Magneto, C.B.E., A15.
Magneto, D.E., N3048.
Magneto, D.E.—1951-1952—A18.
Engine Crankcase, driving side, MS11.
Gear Box, 135.
Gear Box Cover, LS8.
Rear Wheel, Rigid Frame, LS9.
Rear Brake Drum and Sprocket, spring frame, two LS9 and one LS10.

B.S.A.—1951-1952 "A7," Twin—Spring Frame, 500 cc., O.H.V.

Front Wheel, R.H. & L.H., LS9.
Generator, comm. end, 108.
Generator, drive end, 115.
Magneto, C.B.E., A15.
Magneto, D.E., A18.
Engine Crankcase, driving, R130L.
Engine Crankcase, timing side, —.
Gear Box, 135.
Gear Box Cover, LS8.
Rear Hub, LS9.
Rear Brake Drum & Sprocket, two LS9 and one LS10.

B.S.A.—1951-1952 "AAS7 Star Twin," 500 cc., O.H.V., Spring Frame.

Front Wheel, R.H. & L.H., LS9.
Generator, comm. end, 108.
Generator, drive end, 115.
Magneto, C.B.E., A15.
Magneto, D.E., A18.
Engine Crankcase, R130L.
Gear Box, 135.
Gear Box Cover, LS8.
Rear Wheel, R.H. & L.H., rigid frame, LS9.
Rear Brake Drum & Sprocket, spring frame, two LS9 and one LS10.

B.S.A.—1950-1952 "A10," Twin, 650 cc., O.H.V., Spring Frame.

1951-1952 "A10," Twin, 650 cc., O.H.V., Rigid Frame.

Front Wheel, R.H. & L.H., LS9.
Generator, comm. end, 108.
Generator, drive end, 115.
Magneto, C.B.E., A15.
Magneto, D.E., A18.
Engine Crankcase, R130L.
Gear Box, 135.
Gear Box Cover, LS8.
Rear Wheels, R.H. & L.H., rigid frame, LS9.
Rear Brake Drum & Sprocket, spring frame, two LS9 and one LS10.

B.S.A.—1945-1948 "B31," 350 cc., O.H.V.

1946-1948 "B32" — Competition, 350 cc., O.H.V.

1946-1948 "B33," 500 cc., O.H.V.

1946 1948 "B34" — Competition, 500 cc., O.H.V.

Front Wheel, R.H. & L.H., LS9.
Generator (not "Competition model), 115.
Magneto (not "Competition" model), N3048 and A15.
Engine Crankcase, driving side, 125 and R325L.
Engine Crankcase, timing side, RM9L.
Gear Box, 130.
Gear Box Cover, LS8.
Rear Wheels, R.H. & L.H. (some models), 00080X-00162X.
Rear Wheels, R.H. & L.H. (some models), rigid frame, LS9.
Rear Wheels, R.H. & L.H., spring frame, LS10.

FBC Ball and Parallel Roller Bearings

WESTON



B.S.A.—1949-1952 "B31," 350 cc., O.H.V., Spring Frame.
"B32" — Competition, 350 cc., O.H.V.
"B33," 500 cc., O.H.V.
"B34" — Competition, 500 cc., O.H.V.
"B33," 500 cc., O.H.V.

Front Wheel, R.H. & L.H., LS9.
Generator, 108.
Magneto, C.B.E., A15.
Magneto, D.E., N3048.
Engine Crankcase, driving side, R325L and 125.
Engine Crankcase, timing side, RM9L
Gear Box, 130.
Gear Box Cover, LS8.
Rear Hub, LS9.
Rear Brake Drum & Sprocket, LS10.

B.S.A.—1951-1952 "B31," 350 cc., O.H.V., Rigid Frame.
"B32" — Competition, 350 cc., O.H.V.
"B33," 500 cc., O.H.V.
"B34" — Competition 500 cc., O.H.V.
"M33," 500 cc., O.H.V.

Front Wheel, R.H. & L.H., LS9.
Generator, 108.
Magneto, C.B.E., A15.
Magneto, D.E., N3048.
Engine Crankcase, driving side, R325L and 125.
Engine Crankcase, timing side, RM9L.
Gear Box, 130.
Gear Box Cover, LS8.
Rear Wheel, R.H. & L.H., 00080X-00162X.

B.S.A.—1945-1948 "C10," 250 cc., S.V.
1945-1948 "C11," 250 cc., O.H.V.

Front Wheels, 1945-1946, Girder Forks, 40 pcs., Steel Balls, 5/16".
Front Wheels, 1947-1948, Telescopic Forks, 44 pcs., Steel Balls, 5/16".
Generator 115.
Engine Crankcase, drivig side, 325.
Gear Box Cover, LS11.
Rear Wheel, R.H. & L.H., 40 pcs., Steel Balls, 5/16".

B.S.A.—1949-1952 "C10," 250 cc., S.V., 3 Speed Box.
1949-1952 "C11," 250 cc., O.H.V., 3 Speed Box.

Front Wheel, —.
Generator, 115 and 108.
Engine Crankcase, 325.
Gear Box, LS11.
Rear Wheel, rigid frame, —.
Rear Wheel, spring frame, LS7 and MS7.

B.S.A.—1951-1952 "C10," 250 cc., S.V., 4 Speed Box.
"C11," 250 cc., O.H.V., 4 Speed Box.

Front Wheels, —.
Generator, 115 and 108.
Engine Crankcase, driving side, 325.
Gear Box, 135.
Gear Box Cover, LS8.
Rear Hub, spring frame, LS7 and MS7.

B.S.A.—1949-1952 "D1-Bantam," 125 cc., Two Stroke.

Front Wheel, R.H. & L.H., 112.
Engine Crankcase, 117 and LS8.
Gear Box Mainshaft, LS7.
Gear Box Sleeve Pinion, S9.
Rear Wheel, R.H. & L.H., 112.
Rear Wheel, R.H. & L.H., spring frame, 115.

B.S.A.—1950-1952 "D1-Bantam" — Competition, 125 cc., Two Stroke.

Front Wheel, A2047-A2126.
Engine Crankcase, 117 and LS8.
Gear Box Mainshaft, LS7.
Gear Box Sleeve Pinion, S9.
Rear Hub, R.H. & L.H., rigid frame, 112.
Rear Hub, R.H. & L.H., spring frame, 115.

B.S.A.—1945-1947 "M20," 500 cc., S.V.
1946-1947, "M21," 600 cc., S.V.

Front Wheel, R.H. & L.H., 1178X-1130N1.
Generator, 115.
Magneto, N3048 and A15.
Engine Crankcase, driving side, R125LL and R325L.
Engine Crankcase, timing side, RM9L and MS9.
Gear Box, 135.
Gear Box Cover, LS8.
Rear Wheels, 05079-051855.

B.S.A.—1949-1950 "M20," 500 cc., S.V., Spring Frame.
1949-1950 "M21," 600 cc., S.V., Spring Frame.

Front Wheel, R.H. & L.H., LS9.
Generator, 108.
Magneto, C.B.E., A15.
Magneto, D.E., N3048.
Engine Crankcase, driving side, R325L and R125LL.
Engine Crankcase, timing side, RM9L and MS9.
Gear Box, 135.
Gear Box Cover, LS8.
Rear Wheel, R.H. & L.H., 05079-051855.

B.S.A.—1951-1952 "M20," 500 cc., S.V., Rigid Frame.
1951-1952 "M21," 600 cc., S.V., Rigid Frame.

Front Wheel, R.H. & L.H., LS9.
Generator, 108.
Magneto, C.B.E., A15.
Magneto, D.E., N3048.
Engine Crankcase, driving side, R325L and R125LL.
Engine Crankcase, timing side, RM9L and MS9.
Gear Box, 135.
Gear Box Cover, LS8.
Rear Wheel, R.H. & L.H., 05079-051855.

B.S.A.—19
19

Front Wheel
Generator,
Magneto, C
Magneto, I
Engine Cra
Engine Cra
Gear Box,
Gear Box
Rear Brake

B.S.A.—1

Front Whe
Generator,
Magneto,
Magneto,
Engine Cr
Engine Cr
Gear Box,
Gear Box
Rear Whe

B.S.A.—

Front Wh
Generator
Magneto,
Magneto,
Engine C
Engine C
Gear Box
Gear Box
Rear Wh

B.S.A.—

Front W
Engine C
Engine C
Gear B
Gear B
Rear W
Rear Br

B.S.A.—

Front V
Engine
Engine
Gear B
Gear B
Rear Br

B.S.A.—

Front V
Engine
Engine
Gear
Gear
Rear B



Motor-Cycle Application Data

F. B. C.
BALL & ROLLER
BEARINGS

Speed Box.
4 Speed

B.S.A.—1951-1952 "M20," 500 cc., S.V., Spring Frame.
1951-1952 "M21," 600 cc., S.V., Spring Frame.

Front Wheel, LS9.
Generator, 108.
Magneto, C.B.E., A15.
Magneto, D.E., N3048.
Engine Crankcase, driving side, R325L and R125LL.
Engine Crankcase, driving side, RM9L and MS9.
Gear Box, 135.
Gear Box Cover, LS8.
Rear Brake Drum and Sprocket, R.H. & L.H., LS10.

Stroke.

B.S.A.—1947-1948 "M33," 500 cc., O.H.V.

Front Wheel, R.H. & L.H., 1178X-1130N1.
Generator, 115.
Magneto, C.B.E., A15.
Magneto, D.E., N3048.
Engine Crankcase, driving side, 125 and R325L.
Engine Crankcase, timing side, RM9L.
Gear Box, 135.
Gear Box Cover, LS8.
Rear Wheel—fixed wheel only, 05079-05185S.

on, 125

B.S.A.—1948 "M33," Spring Frame, 500 cc., O.H.V.

Front Wheel, R.H. & L.H., 1178X-1130N1.
Generator, 115.
Magneto, C.B.E., A15.
Magneto, D.E., N3048.
Engine Crankcase, driving side, 125 and R325L.
Engine Crankcase, timing side, RM9L.
Gear Box, 135.
Gear Box Cover, LS8.
Rear Wheel, 1 each, LS9, LS10, RLS9.

B.S.A.—1949 "Gold Star," 500 cc., O.H.V.,
Spring Frame.

1951-1952 "Gold Star," 500 cc., O.H.V.,
Rigid Frame.

Front Wheel, R.H. & L.H., LS9.
Engine Crankcase, driving side, R325L and 125.
Engine Crankcase, timing side, RM9L.
Gear Box, 135.
Gear Box Cover, LS8.
Rear Wheel, R.H. & L.H., rigid frame, LS9.
Rear Brake Drum & Sprocket, R.H. & L.H., spring frame, LS10.

frame.

frame.

B.S.A.—1950-1952 "Gold Star," 350 cc., O.H.V.,
Spring Frame.

Front Wheel, R.H. & L.H., LS9.
Engine Crankcase, driving side, R325L and 125.
Engine Crankcase, timing side, RM9L.
Gear Box, 135.
Gear Box Cover, LS8.
Rear Brake Drum & Sprocket, R.H. & L.H., LS10.

me.

me.

B.S.A.—1949-1950 "Star," Twin, 500 cc., O.H.V.,
Spring Frame.

Front Wheel, R.H. & L.H., LS9.
Engine Crankcase, driving side, MS11.
Engine Crankcase, Timing Side, —.
Gear Box, 135.
Gear Box Cover, LS8.
Rear Brake Drum and Sprocket, two LS9 and one LS10.

B.

HOFFMANN Ball and Parallel Roller Bearings

Burman

BURMAN—Gear Box, Model "C."

High Speed, N1540.
Kick Starter End, 117.

BURMAN—Gear Box, Model "BA."

High Speed, 5341.
Kick Starter End, 320.

Corgi

CORGI—"Spryt" Engine—Kick Start; Mk. II.

Front Wheel, 18 pcs., 1/4" diam., Steel Balls.
Connecting Rod, 8 pcs., Steel Rollers, .1859 x .36 and 8 pcs.,
Bronze Rollers, .185 x .355.
Engine Crankcase, S8 and L25N.
Kick Starter, S8.
Clutch, LS7.
Clutch Push-Rod, 3 pcs., 3/16 diam., Steel Balls.
Final Drive Sprocket, 22 pcs., Needle Rollers, 2.5 x 15.8 mm.
Rear Hub, 18 pcs., 1/4" diam., Steel Balls.

CORGI—Mark IV.

Front Wheel, 3/16" diam., Steel Balls.
Head Race, 1/8" diam., Steel Balls.
Connecting Rod, 8 pcs., Steel Rollers, .1859 x .36 and 8 pcs.,
Bronze Rollers, .185 x .355.
Gear Box Mainshaft, 120.
Clutch, 3/16" diam., Steel Balls.
Rear Wheel, 3/16" diam., Steel Balls.

C-Z

C-Z—1949-1952 "125 T."

"125 C."

"125 S."

"150 C."

Front Wheel, R.H. & L.H., 115.
Steering Head, 40 pcs., Steel Balls, 3/16".
Crankshaft—mods, 125T and 125C, 2 used, 320.
Crankshaft—Mods, 125S and 150C, 3 used, 320.
Gear Box, drive side, 112.
Gear Box, timing side, 115.
Gear Box, mainshaft—except 125T, 117.
Gear Box, mainshaft—mod, 125T, 7503.
Rear Hub—mods, 125C, 125S, 150C.
Rear Sprocket 125.

DKW

DKW—1949-1951 "RT 125," 123 cc., Two Stroke.

Front Wheel, R.H. & L.H., 112.
Front Wheel, R.H. & L.H., 1951 mod., 115.
Steering, 2 used, (FAG) 74151.
Crankshaft, 3 used, 117.
Connecting Rod, Steel Rollers, 5 mm. x 8 mm.
Gear Box, 115 and 16004.
Rear Wheel, R.H. & L.H., 112.



DKW—1952 onwards "RT 125/2/2A," 123 cc., Two Stroke.

"RT 125/2 HF," Two Stroke.

Front Wheel, R.H. & L.H., 115.
Steering, (FAG) 74151.
Crankshaft (from Eng. 46076479) (3 used), 120.
Connecting Rod 2 x 12 Steel Rollers 5 mm. x 5 mm.
Gear Box, 9104K and 115.
Rear Wheel R.H. & L.H., 115.

DKW—1953 "RT," 175 cc., Two Stroke.

Front Wheel, R.H. & L.H., 115 and 315.
Steering, 42 pcs., Steel Balls, 5 mm.
Crankshaft, 3 used, 320.
Clutch, 16005.
Gear Box, 2 used, 317 and 1 used, 315.
Rear Wheel, R.H. & L.H., 115 and 9104K.

DKW—1951 "RT200," 191 cc., Two Stroke.

"RT250," 244 cc., Two Stroke.

Front Wheel, R.H. & L.H., 115.
Steering, 2 used, (FAG) 74151.
Crankshaft, 3 used, 325.
Connecting Rod, 2 x 12 pcs., Needle Rollers, 5.5 mm. x 5.5 mm.
Gear Box, 2 used, 9105K and 1 used, 317.
Rear Wheel, R.H. & L.H., 120.

DKW—1952 "RT200," 191 cc., Two Stroke.

Front Wheels, R.H. & L.H., 115.
Steering, 1 each, 500443 and 74151 (FAG).
Crankshaft (3 used), 325.
Connecting Rod, (FAG) 201486, complete with 2 x 12 pcs.
Steel Rollers, 5 mm. & 6 mm.
Gear Box (2 used), 9105K and (1 used), 317.
Rear Wheel (2 used), 117 and (1 used), 9105K.

DKW—350 cc. and 500 cc.
Wheels, front and rear, 120 and 115 DR.

Dot

DOT—"D" and "R," Standard Models.

"SC," S, SD," Scramble Models.

"T and TD," Trial Models.

Front Wheel, R.H. & L.H., 115
Engine Driving Shaft, 120 and 320.
Gear Box, 125.
Rear Wheel, R.H. & L.H., 115.

DOT—1950-1952 250 cc., Standard.

Front Wheel, R.H. & L.H., 115.
Steering, head race, 1/4" diam., Steel Balls.
Engine Driving Shaft, M59.
Engine Drive End, Steel Rollers, 5 mm. x 5 mm.
Engine Timing Side, R125.
Gear Box Mainshaft, 120.
Clutch Race, 3/16" diam., Steel Balls.
Rear Wheel, R.H. & L.H., 115.

Douglas

DOUGLAS—"Vespa."

Front Axle, 112.
Front Axle, 117.
Front Hub, 2 mm. x 11.8 mm., Needle Rollers.
Connecting Rod, 6 mm. x 8 mm., Needle Rollers.
Mainshaft, outer, L20NB
Mainshaft, inner, L20N.
Gear Box, multiple gear, 4591.
Countershaft, Needle Rollers, 2.5 mm. x 7.8 mm.
Clutch Gear, Needle Rollers, 2.5 mm. x 15.8 mm.
Kickstart, L20N.
Rear Wheel, —.

DOUGLAS—"Mark V."

"80 Plus."

"90 Plus."

Front Wheels, R.H. & L.H., 120.
Generator, 108.
Magneto, C.B.E., N3048.
Magneto, D.E., N3048.
Mainshaft, LS10.
Main Bearing, Mark V, 130DR.
Main Bearing, Plus series, 130.
Final Drive, 125.
Countershaft, 117.
Rear Wheel, R.H. & L.H., LS7.

DOUGLAS—1948-1952 "T35," Twin Sports, 350 cc., O.H.V.

Front Wheel, R.H. & L.H., 120.
Steering Head, lower, 1985-1932.
Mainshaft, LS10.
Layshaft, 117.
Final Drive, 117 and 125.
Rear Wheel, R.H. & L.H., LS7.

Excelsior

EXCELSIOR—"Autobyk" (Villiers Engine).

Engine Mainshaft, driving side, S8 and S9.
Gear Box Mainshaft, LS7 and S8.

EXCELSIOR—"Autobyk," (Villiers Spryt Engine).

Engine Mainshaft, S8 and L25N.
Clutch Shaft, S8 and LS7.

EXCELSIOR—"Autobyk," Super S1 and G1 with Goblin Engine.

Engine Mainshaft, driving side, S8 and L25N.
Gear Box Mainshaft, L20N and M15N.

EXCELSIOR—"Roadmaster R1 and R2."

Front Wheel, R.H. & L.H., 115.
Engine Mainshaft, driving side, 120 and 320.
Gear Box Mainshaft, 125.
Rear Wheel, R.H. & L.H., 115.

EXCELSIOR—"Universal," Villiers Engine.

Engine Mainshaft, driving side, 2 used, LS8.
Engine Mainshaft, timing side, LS8.
Gear Box Mainshaft, 120.



Motor-Cycle Application Data

TIMKEN
T A P E R E D
ROLLER BEARINGS

EXCELSIOR—"Universal U1 and U2."

Engine Mainshaft, driving side, 120.
Gear Box Mainshaft, 125.
Rear Wheel, R.H. & L.H., 115.

EXCELSIOR—150 cc.

Front Wheel, R.H. & L.H., 115.
Engine Mainshaft, driving side, LS8.
Engine Mainshaft, timing side, LS8.
Rear Wheel, R.H. & L.H., 115.

EXCELSIOR—1949 "49/G2." "49/M1."

Engine Mainshaft, driving side, L25N and S8.
Gear Box Mainshaft, M15N and L20N.

EXCELSIOR—1949 "49/R1," 125 cc. "49/R2."

Engine Mainshaft, driving side, 320 and 120.
Engine Mainshaft, timing side, 120.
Gear Box Mainshaft, 125.

EXCELSIOR—1949 "49/S1."

Engine Mainshaft, driving side, L25N and S8.
Gear Box Mainshaft, S8 and LS7.

EXCELSIOR—1949 "49/U1." "49/U2."

Engine Mainshaft, driving side, 120.
Engine Mainshaft, timing side, 120.
Gear Box Mainshaft, 125.

EXCELSIOR—1949 "49/V1."

Engine Mainshaft, driving side, S8 and S9.
Gear Box Mainshaft, S8 and LS7.

EXCELSIOR—"TTI—Talisman Twin." "STT1—Sports Twin."

Engine Mainshaft, driving side, LS8.
Engine Mainshaft, timing side, RLS8.
Crankshaft, centre main, S10.
Gearbox Mainshaft, LS10 and 115.
Rear Wheel, R.H. & L.H., 115.

Francis-Barnett

FRANCIS-BARNETT—"Merlin 52 and 53."

Front Wheel, 20 pcs., Steel Balls, 5/16".
Engine Mainshaft, driving side, 120.
Gear Box Mainshaft, 125.
Rear Wheel, 38 pcs., Steel Balls, 1/4".

FRANCIS-BARNETT—"Merlin 57, 61, 62."

Front Wheel, 20 pcs., Steel Balls, 5/16".
Engine Mainshaft, driving side, 120.
Gear Box Mainshaft, 125.
Rear Wheel, R.H. & L.H., 115.
Rear Wheels, 1949 onwards, 20 pcs., Steel Balls, 5/16".

FRANCIS-BARNETT "Merlin-59," Competition.

Front Wheel, R.H. & L.H., 115.
Engine Mainshaft, driving side, 120.
Gear Box Mainshaft, 125.
Rear Wheel, R.H. & L.H., 115.

FRANCIS-BARNETT—"Falcon," "54 and 55."

Front Wheels, 38 pcs., Steel Balls, 1/4".
Engine Mainshaft, driving side, 120 and 320.

Gear Box Mainshaft, 125.
Rear Wheel, 20 pcs., Steel Balls, 5/16".

FRANCIS-BARNETT—"Falcon—58, 63, 64."

Front Wheel, 38 pcs., Steel Balls, 1/4".
Engine Mainshaft, driving side, 120 and 320.
Gear Box Mainshaft, 125.
Rear Wheel, R.H. & L.H., 115.

FRANCIS-BARNETT—"Falcon-60," Competition.

Front Wheel, R.H. & L.H., 115.
Engine Mainshaft, driving side, 120 and 320.
Gear Box Mainshaft, 125.
Rear Wheel, 115.

FRANCIS-BARNETT—"Powerbike-56."

Front Wheels, 3/16" diam., Steel Balls.
Engine Mainshaft, driving side, 125.
Clutch Shaft, 120.
Rear Wheel, 3/16" diam., Steel Balls.

Heinkel

HEINKEL—"Tourist," 149 cc., 3 Speed.

Front Wheel, R.H. & L.H., 115.
Steering, (2 used) (FAG) 501448, with 42 Steel Balls, 5 mm.
Crankshaft, (2 used), 320.
Connecting Rod, 2 x 12 Steel Rollers, 6 mm. x 6 mm.
Clutch Shaft, 51100.
Gear Box, 1 each, 9104K; 16005; 117.
Rear Wheel (2 used), 120; (1 used), 117.

Horex

HOREX—1950 onwards "Regina," 342 cc., 4 Speed.

Front Wheel, R.H. & L.H., 9105K.
Steering, 48 pcs., Steel Balls, 3/16".
Crankshaft, one 320 and two Roller Brgs., less O.R., 22.3 x 42 x 14.
Crankshaft (1953 onwards) (2 used), 325,
34 pcs., Needle Rollers, 5.5 mm. x 7.4 mm.
(1 used), R325P.
Connecting Rod, 34 pcs., Steel Rollers, 5.5 mm. x 7.4 mm.
Gear Box, 1 each, 125 and 317.
Chain Sprocket, (2 used), 9105K.
Kick Starter, 1 pc., Steel Ball, 6 mm.
Rear Wheel, R.H. & L.H., 9105K.

H.R.D.

H.R.D.—See Vincent.

Indian

INDIAN—"Brave."

Front Wheel, 5/16" diam., Steel Balls.
Head Race, 3/16" diam., Steel Balls.
Engine Crankshaft, timing side, R125.
Engine Crankshaft, generator side, MS9.
Engine Crankshaft, drive end, Steel Rollers, 5 mm. x 5 mm.
Gear Box Mainshaft, 120.
Clutch Race, 3/16" diam., Steel Balls.
Rear Wheel, 5/16" diam., Steel Balls.

Replace Oil Seals with **WESTON**



James

JAMES—"Superlux," Auto-cycle, 98 cc.
"Cadet," Standard and De Luxe, 122 cc.

Engine Mainshaft, 125.
Clutch Shaft, 120.

JAMES—"Comet," Standard, 98 cc.
"De Luxe-Commodore," 98 cc.

Engine Mainshaft, 125.
Clutch Shaft, L25N and L20N.

JAMES—"Captain," Standard, 197 cc.
"Colonel," De Luxe, 197 cc.

Engine Mainshaft, 120 and 320.
Engine Mainshaft, 125.

Jawa (Motokov)

JAWA—(Motokov) 1949-1952 250 cc. and 350 cc.

Front Wheel, R.H. & L.H., 7601.
Crankshaft, (3 used), 325.
Connecting Rod, 4 pcs., Steel Rollers, 6 mm. x 4 mm.
Gear Box Mainshaft, clutch side 317.
Gear Box Countershaft, 7505.
Rear Hub, (2 used), 7503.
Rear Wheel Brake Drum, 7505.

Lambretta

LAMBRETTA—"125." See N.S.U.

LAMBRETTA—"125-B."

"125-C."

"125-LC."

Front Wheel, R.H. & L.H., 112.
Steering Head, 24 pcs., Steel Balls, 1/8".
Crankshaft, (4 used), 117.
Connecting Rod, 27 pcs., Needle Rollers, 3 mm. x 11.8 mm.
Clutch, L25N, superseded by L25N, C.D.S. for mods. "C" and "LC."
Gear Box, (3 used), 112.
Rear Axle Drive Pinion, 5203.
Rear Axle Pinion Shaft—mod. "B," R117.
Rear Axle Drive Pinion—mods. "C" and "LC," 9103K.
Rear Axle Shaft, 120.
Rear Axle, 112 and 115.

LAMBRETTA—1952 "125-D."
1952-1953 "125-LD."

Front Wheel, R.H. & L.H., 112.
Steering Head, upper, 36 pcs., Steel Balls, 1/8".
Steering Head, lower, 23 pcs., Steel Balls, 1/4".
Crankshaft, (4 used), 117.
Connecting Rod, 27 pcs., Steel Rollers, 3 mm. x 11.8 mm.
Clutch, 125 and 10 pcs., Steel Balls, 5/32".
Gear Box, primary shaft, 112.
Gear Box, Idler Sprocket, 24 pcs., Needle Rollers, 3 mm. x 15.8 mm.
Torsion Bar Assembly, (RIV) 07181086.

LAMBRETTA—"125-F."

Crankshaft, 117.
Crankshaft, roller & cage assy., (RIV) 329241B.
Connecting Rod, 27 pcs., Needle Rollers, 3 mm. x 11.8 mm.
Clutch, L25N superseded by L25N-C.D.S.
Gear Box, primary shaft, 16103.
Rear Axle Drive Pinion, F and R, 117 and 23 pcs., Needle Rollers, 3 mm. x 15.8 mm.
Rear Axle Drive, 117 and 112.

Matchless

MATCHLESS—1945-1949 "G3L," 350 cc.
1946-1949 "G3LC," 350 cc.

1949 "G3LS," 350 cc.
1949 "G80L," 500 cc.
1949 "G80LC," 500 cc.
1949 "G80LS," 500 cc.

Steering Head, upper & lower, 56 pcs., Steel Balls, 3/16".
Engine Mainshaft, driving side, 2 used, LS10.
Gear Box, driving shaft, N1540.
Gear Box Mainshaft, 117.
Rear Wheel—spring frame, 1178X-1130NI.
Rear Wheel—rigid frame, 00081X-00150.

MATCHLESS—1949 "G90," 500 cc., Twin.
"G90C."

Steering Head, upper & lower, 56 pcs., Steel Balls, 3/16".
Engine Mainshaft, driving side, 2 used, RLS12½.
Gear Box, driving shaft, N1540.
Gear Box, mainshaft, 117.
Rear Wheel—spring frame, 1178X-1130NI.
Rear Wheel—rigid frame, 00081X-00150.

Norman

NORMAN—1945-1949 "Auto-Cycle," 98 cc.

Driving Shaft, S8 and S9.
Clutch Shaft, S8 and LS8.
Pinion, front, 16004.
Pinion, rear, 16004.
Rear Axle Drive, 117.

NORMAN—1949 onwards "C," Auto-Cycle, 98 cc.

Driving Shaft, 125.
Clutch Shaft, 120.

NORMAN—1949 onwards "L/W," and "D," 98 cc.

Driving Shaft, 125.
Clutch Shaft, L20N.
High Gear Pinion, L25N.

NORMAN—1945-1949 "L/W," 125 cc.

Crankshaft, LS8.
Gear Box, 120.

NORMAN—"B1; E," 125 cc.

Driving Shaft, 120.
High Gear Pinion, 125.

NORMAN—"B2; B2S; BC," 197 cc.

Front Hub, 115.
Driving Shaft, 320 and 120.
High Gear Pinion, 125.
Rear Hub, 115.

Norton

NORTON—1946-1948 "CSI—International," 350 cc.

"CJ."

"30."

"40."

Front Wheel, 117 and 117DR.
Magdyno, C.B.E., A15.
Magdyno, D.E., N3048.



N.S.U.

N.S.U.—1950 onwards "Lambretta 125," 123 cc.
Front Wheel, R.H. and L.H., 112.
Crankshaft (4 used), 117.
Connecting Rod, 27 pcs., Needle Rollers, 3 mm. x 11.8 mm.
Clutch, 10 pcs., Steel Balls, 5/32".
Gear Box, drive shaft, one 112 and one A.C. Bearing, 25 x 52 x 9.
Gear Box Mainshaft, 117ACD and 9103K, also 24 pcs., Needle Rollers, 3 mm. x 15.8 mm.
Countershaft, two 117 and two pcs., Steel Balls, 6 mm.
Pinion Shaft, 117 and 120.
Rear Wheel, 115 and 117.
Other Bearings, applications unknown:—
One 317, Steel Balls, 35 off 1/8"; 23 off 1/4"; 10 off 10 mm.

P. & M. Panther

P. & M. PANTHER—1947-1951 "60," 250 cc.
"70," 350 cc.

Front Wheel, R.H. & L.H., 315.
Crankpin Assy., L1359.
Engine Mainshaft to 1948, RL9L and Bronze Bushing.
Engine Mainshaft 1949 onwards, (Bronze Bushings fitted).
Gear Box, Layshaft, 5856.
Gear Box, kick starter side, 115.
Rear Wheel, R.H. & L.H., 315.

P. & M. PANTHER—1949 "65," 250 cc., 3 Speed.

Front Wheel, R.H. & L.H., 315.
Engine (Bronze Bushings fitted).
Gear Box, high speed, 5856.
Gear Box, kick starter side, 115.
Rear Wheels, R.H. & L.H., 315.

P. & M. PANTHER—1949 "75," 350 cc., 4 Speed.

Front Wheel, R.H. & L.H., 315.
Engine (Bronze Bushings fitted).
Gear Box, high speed, 130.
Gear Box, kick starter side, 115.
Rear Wheels, R.H. & L.H., 315.

P. & M. PANTHER—1947-1951 "100," 600 cc.

Front Wheel, R.H. & L.H., 315.
Crankpin Assy., A160.
Engine Mainshaft, LS11 and RLS11.
Rear Wheel, MS7.

Royal Enfield

ROYAL ENFIELD—1946-1949 "RE."

Front Wheel, R.H. & L.H., 110.
Magdyno, 112 and 110.
Engine Mainshaft, driving side, 315 and 115.
Engine Mainshaft, timing side, 315 and 110.
Gear Box Mainshaft, 120.
Rear Wheels, R.H. & L.H., 110.

ROYAL ENFIELD—1949-1950 "RE."

Front Wheel, R.H. & L.H., 110.
Flywheel (Magneto), 110.
Engine Mainshaft, driving side, 315 and 115.
Engine Mainshaft, timing side, 315.
Gear Box, Mainshaft, 120.
Rear Wheel, R.H. & L.H., 110.

ROYAL ENFIELD—1951-1952 "RE-2."

Front Wheel, 110.
Dynamo, 115 and 108.
Magneto, C.B.E., A15.
Magneto, D.E., N3048.
Engine Mainshaft, driving side, 120.
Engine Mainshaft, timing side, 120.
Gear Box Mainshaft, 312 and 120.
Rear Wheel, R.H. & L.H., 110.

ROYAL ENFIELD—1946 "CO."

Front Wheel, R.H. & L.H., 312.
Magneto, C.B.E., A15.
Magneto, D.E., N3048.
Gear Box, Mainshaft, 130 and MS7.
Rear Wheel, R.H. & L.H., MS7.

ROYAL ENFIELD—1946-1949 "G."

Front Wheel, R.H. & L.H., LS7.
Magdyno, N3048 and A15.
Gear Box, Mainshaft, 130 and MS7.
Rear Wheel, R.H. & L.H., 312.

ROYAL ENFIELD—1950-1952 "G."

Front Wheel, R.H. & L.H., LS7.
Generator, 115 and 108.
Magneto, C.B.E., A15.
Magneto, D.E., N3048.
Gear Box, Mainshaft, 130 and MS7.
Rear Wheel, R.H. & L.H., LS7.

ROYAL ENFIELD—1946-1947 "J."
1948-1949 "J-2."

Front Wheel, R.H. & L.H., LS7.
Magdyno, N3048 and A15.
Gear Box, Mainshaft, 130 and MS7.
Rear Wheel, R.H. & L.H., MS7.

ROYAL ENFIELD—1950-1952 "J-2."

Front Wheel, R.H. & L.H., LS7.
Generator, 115 and LS5PP.
Magneto, C.B.E., A15.
Magneto, D.E., N3048.
Gear Box, Mainshaft, 130 and MS7.
Rear Wheel, R.H. & L.H., MS7.

ROYAL ENFIELD—1949 "Bullet," 350 cc.

Front Wheel, R.H. & L.H., LS7.
Magdyno, N3048 and A15.
Engine Mainshaft, driving side, LS10.
Gear Box, Mainshaft, 130 and MS7.
Rear Wheel, R.H. & L.H., MS7.

ROYAL ENFIELD—1950-1952 "Bullet," 350 cc.,
Standard.
"Bullet," 350 cc., Trials.

Front Wheel, R.H. & L.H., LS7.
Generator (not "Trials" model), 115 and 108.
Magneto, C.B.E., (not "Trials" model), A15.
Magneto, D.E., (not "Trials" model), N3048.
Engine Mainshaft, driving side, LS10.
Gear Box, Mainshaft, 130 and MS7.
Rear Wheel, R.H. & L.H., LS7.

ROYAL ENFIELD—1949 "500 cc. Twin."

Front Wheel, R.H. & L.H., LS7.
Dynamo-Distributor, LS5 and 115.
Engine Mainshaft, driving side, 145 and R145.
Gear Box, Mainshaft, 130 and MS7.
Rear Wheel, R.H. & L.H., 312.



King Pin and Clutch Thrusts



Motor-Cycle Application Data

HOFFMANN
BALL & ROLLER
BEARINGS

ROYAL ENFIELD—1950-1952 "500 cc. Twin."

Front Wheel, R.H. & L.H., LS7.
Generator, 115 and LS5PP.
Engine Mainshaft, driving side, 140 'ooo'.
Engine Mainshaft, timing side, R145 'ooo'.
Gear Box, mainshaft, 130 and MS7.
Rear Wheel, R.H. & L.H., LS7.

Sun

SUN—"De Luxe," 98 cc.

Engine Driving Shaft, 125.
Clutch Shaft, L20N and L25N.

SUN—"De Luxe," 122 cc.

Engine Driving Shaft, 120.
Gear Box, 125.

SUN—"Challenger," 197 cc.

Engine Driving Shaft, 120 and 320.
Gear Box, 125.

Sunbeam

SUNBEAM—1948-1952 "S7," 500 cc. "S8."

(These models made by B.S.A. for Sunbeam).

Front Wheel, LS9 and RLS9.
Distributor, S1.
Engine Crankshaft, 135 or R135L.
Gear Box, Mainshaft, LS10 and LS8.
Shaft Drive, wormshaft, N4965 and RL8L.
Worm Wheel, XLS2A.C.D. and LS13A.C.D.
Rear Wheel, LS9 and RLS9.

Triumph

TRIUMPH—1946 "3HW."

Front Wheel, R.H. & L.H., 00068X-00152X.
Steering Head, 3/16", Steel Balls.
Connecting Rod, Steel Rollers, 1/4" x 1/4".
Engine Mainshaft, driving side, LS10 and LS11.
Engine Mainshaft, timing side, LS10.
Clutch, 20 pcs., Steel Rollers, 1/4" x 1/4".
Gear Box Mainshaft, N1443.
Gear Box, inner cover, LS8.
Rear Wheel, R.H. & L.H., 1163X-1120NI.

TRIUMPH—1945-1948 "3NW."

Generator, 115 and 108.
Engine Mainshaft, driving side, LS10 and LS11.
Engine Mainshaft, timing side, LS10.
Gear Box Mainshaft, N1443.
Gear Box, inner cover, LS8.

TRIUMPH—1946 "5TW."

Front Wheel, R.H. & L.H., LS8.
Steering Head, 3/16", Steel Balls.
Engine Mainshaft, drive end, MS11.
Rear Wheel, R.H. & L.H., LS8.

TRIUMPH—1947 "Tiger," Racing Model. 1949 "Grand Prix," 500 cc., Twin.

Front Wheel, R.H. & L.H., 120.
Steering Head, upper, 3/16", Steel Balls.

Steering Head, lower, 1/4", Steel Balls.
Engine Mainshaft, driving side, RM10L and RM11L.
Clutch, 20 pcs., Steel Rollers, 1/4" x 1/4".
Gear Box, N1443.
Gear Box, inner cover, LS8.
Layshaft, Needle Rollers, 2 mm. 9.8 mm.
Rear Wheels, 58 pcs., Steel Balls, 5/16".

TRIUMPH—1949-1950 "Grand Prix."

Front Wheel, R.H. & L.H., 120.
Engine Mainshaft, driving side, RM11L.
Engine Mainshaft, timing side, RM10L.
Gear Box Mainshaft, N241 and LS8.
Rear Wheel, R.H. & L.H., 1163X-1120NI.
Rear Hub—spring wheel (after Apr., 1950), N4859.

TRIUMPH—1945-1949 "3T—De Luxe," 350 cc., Twin.

"85—Tiger."
"5T—Speed Twin," 500 cc.
"100—Tiger."

Front Wheel, R.H. & L.H., 120.
Steering Head, upper, 3/16", Steel Balls.
Steering Head, lower, 1/4", Steel Balls.
Generator, 115.
Engine Mainshaft, MS10 or RM10LL and MS11.
Clutch, 20 pcs., Steel Rollers, 1/4" x 1/4".
Gear Box Mainshaft, N1443.
Gear Box, Inner Cover, LS8.
Rear Wheel, R.H. & L.H.—for twin mods., 1163X-1120NI.

TRIUMPH—1949-1951 "3T," 350 cc., Twin.

Front Wheel, R.H. & L.H., 120.
Generator, 115 and *108.
Magneto, C.B.E., A15.
Magneto, D.E., A18.
Engine Mainshaft, MS10.
Gear Box Mainshaft, N241 and LS8.
Rear Wheel, R.H. & L.H., 1163X-1120NI.
*Not on 1949.

TRIUMPH—1949-1952 "5T—Speed Twin," 500 cc.

"T100—Tiger."
"TR5."

1950-1952 "6T."

Front Wheel, R.H. & L.H., 120.
Generator, 115 and *108.
Magneto, C.B.E., A15.
Magneto, D.E., A18.
Engine Mainshaft, MS11 and RM10L.
Gear Box Mainshaft, N241 and LS8.
Rear Wheels, R.H. & L.H.—for twin mods., 1163X-1120NI.
*Not on 1949.

Vespa

VESPA—See Douglas.

Velocette

VELOCETTE—1945-1948 "KSS," 350 cc. "KTS."

1945-1949 "MAC," 350 cc.

Front Wheel, R.H. & L.H., 00081X-00154X, replaced by 00079X-00154X.
Engine Mainshaft, driving side, L462.
Engine Mainshaft, timing side, N2787.
Gear Box, L35N; MS5; end LS7.

BSC have the most comprehensive range of Bearings in Australia



Camshaft, LS7.
Rear Wheel, R.H. & L.H., LS9.

VELOCETTE—1949 "KTT," 350 cc.

Front Wheel, R.H. & L.H., 00081X-00154X, replaced by 00079X-00154X.
Engine Mainshaft, driving side, A805.
Engine Mainshaft, timing side, A805.
Gear Box, L35N, MS5 and LS7.
Rear Wheel, R.H. & L.H., 1150-1130.

**VELOCETTE—1949-1950 "LE," 149 cc.
1950-1952 "LE," 200 cc.**

Front Wheel, R.H. & L.H., LS8.
Steering Head, upper, 07100S-07210X.
Steering Head, lower, 07100S-07210X.
Generator, S7.
Connecting Rod, Steel Rollers, .186" x 7/8".
Crankcase, LS8.
Flywheel Shaft, S8.
Flywheel Housing, LS8.
Camshaft (2 used), S7.
Clutch Housing or Reduction Gear, N4311.
Gear Box (4 used), S7.
Bevel Pinion, L8CD.
Crown Wheel, S11.
Rear Wheel, R.H. & L.H., LS8.

VELOCETTE—1949-1952 M.A.C., 350 cc.

Front Wheel, R.H. & L.H., LS9.
Generator, 115 and 110.
Engine Mainshaft, driving side, A805.
Engine Mainshaft, timing side, N2787.
Gear Box, L35N, LS5, and LS7.
Rear Wheel, R.H. & L.H., LS9.

VELOCETTE—1945-1946 "MSS," 500 cc.

Front Wheel, R.H. & L.H., 00081X-00154X, replaced by 00079X-00154X.
Engine Mainshaft, driving side, A805.
Engine Mainshaft, timing side, N2787.
Gear Box, L35N, MS5, and LS7.
Camshaft, LS7.
Rear Wheel, R.H. & L.H., LS9.

VELOCETTE—1946-1948 "MSS," 500 cc.

Front Wheel, R.H. & L.H., 00081X-00154X, replaced by 00079X-00154X.
Engine Mainshaft, driving side, 1994X-1922.
Engine Mainshaft, timing side, N2787.
Gear Box, L35N, MS5, and LS7.
Rear Wheel, R.H. & L.H., LS9.

VELOCETTE—1954 "MSS," 500 cc.

Engine Mainshaft, driving side, 1994X-1922.
Engine Mainshaft, timing side, 1994X-1922.

Victoria

**VICTORIA—1951 "KR 25 HM Aero," 247 cc., Two Stroke, 4 Speed.
"KR 26 Aero."**

Front Wheel, R.H. & L.H., 115.
Steering, 4 pcs., 1-92422 and 42 pcs., Steel Balls, 6 mm.
Crankshaft, 120.
Connecting Rod, 57 pcs., Steel Rollers, 5 mm. x 8 mm.
Gear Box, 315 and L25N.
Rear Wheel, one 320 and two 120.

VICTORIA—1951 onwards "KR-125 Bi-Fix," 123 cc., Two Stroke.

Front Wheel, R.H. & L.H., 115.
Crankshaft, 315.
Connecting Rod, 16 pcs., Needle Rollers, 4 mm. x 8 mm.
Driveshaft, 42 pcs., Needle Rollers, 4 mm. x 8 mm.
Rear Wheel, —.

VICTORIA—1949 "FM 38L-Vicky I," 38 cc., Two Stroke.

Crankpin, 312.
Crankshaft, 17 pcs., Needle Rollers, 4 mm. x 8 mm.
Connecting Rod, 16 pcs., Needle Rollers, 3 mm. x 5 mm.
Gear Box, 1 each, 112 and 9102K.

Villiers

VILLIERS—"Auto-Cycle."

Engine Driveshaft, R.H., S9.
Engine Driveshaft, L.H., S8.
Clutch Shaft, R.H., S8.
Clutch Shaft, L.H., LS7.

VILLIERS (Engines only).

MODEL—"1F," 2 Speed.

"4F," 2 Speed.

Driveshaft (2 used), 125.
Clutch Shaft, L20N and L25N.

MODEL—"1G."

Driveshaft, M20N.
Clutch Shaft, L20N.

MODEL—"2F."

"3F."

Driveshaft, LS8.
Clutch Shaft, 120.

MODEL—"10D."

"11D."

"12D."

Driving Shaft (3 used), 120.
Gear Box, 125.

MODEL—"6E."

"7E."

"8E."

Driving Shaft, 320 and three 120.
Gear Box, 125.

MODEL—"Marvil—Mk. 1."

Driveshaft (3 used), S8.

MODEL—"Mk. 1."

Driveshaft, D.S., 120 DR.
Driveshaft, M.S., LS8.
Gear Box, control side, LS5.
Gear Box, clutch side, 120.

MODEL—"Mk. 10—Marston," 4 Stroke & "Mk. 12."

Driveshaft (2 used), LS8.
Reduction Gear, LS7 and LS8.



Motor-Cycle Application Data

R. B. C.
FLEXIBLE
ROLLER BEARINGS

123 cc.,
mm.
wo Stroke.
5 mm.
ings

MODEL—"Marvil—Mk. 2."
"Century—Mk. 1."
"Century—Mk. 2."

Drive Shaft, S8 and two LS8.

MODEL—"Mk. 3E."
"Mk. 5E."

Driveshaft, D.S. (2 used), LS8.
Driveshaft, M.S., 120DR.
Gear Box, Clutch Side, LS9.

MODEL—"Mk. 20—Marston," 4 Stroke.
"Mk. 25—Marston," 4 Stroke.

Drive Shaft (2 used), MS10.
Reduction Gear, MS10 and LS8.

MODEL—"20C."

Driveshaft (4 used), LS8.

MODEL—"24C."

Driveshaft (2 used), MS8.

MODEL—"25."

"25C."

27C."

Driveshaft, MS8.

MODEL—"30C."

Driveshaft, 320.
Gear Box Mainshaft, 125.

MODEL—"Mk. 40."

Driveshaft, MS11 and MS12.
Driveshaft (slow speed only), LS14.
Reduction Gear, MS10 and MS12.

MODEL—"17A."

"17B."

"24B."

Driveshaft (2 used), MS10.

MODEL—"18A."

"19A."

"25A."

"27B."

Driveshaft (2 used), 325DR.

MODEL—"26A."

"28B."

"1H."

Driveshaft, 325.

MODEL—"9D."

Driveshaft (2 used), LS8 'ooo'.
Big End, 8 pcs., Steel Rollers, $\frac{1}{4}$ " x $\frac{1}{2}$ "; 16 pcs., Steel Rollers,
 $\frac{1}{4}$ " x $\frac{1}{4}$ ".
Gear Box, 120 'ooo'.

MODEL—"J."

"JDL."

Driveshaft, S8 'ooo'.
Driveshaft, S9 'ooo'.
Clutch Shaft, S8 'ooo'.
Clutch Shaft, LS7 'ooo'.

MODEL—"98 cc.," and "125 cc."

Driveshaft (3 used), LS8.
Mainshaft, 120.

MODEL—"250 cc."

Driveshaft, 320 and R125.

MODEL—"ATCOS/THE."

Driveshaft, S8.

MODEL—"Spryt."

Engine Mainshaft, L25N and S8.
Clutch Shaft, S8 and LS7.

MODEL—"Junior."

Driveshaft, S8 and S10.
Clutch Shaft, LS7 and S8.

MODEL—"W/C Staty."

Driveshaft (2 used), MS11.

Vincent - H.R.D

VINCENT—H.R.D.

Wheels only—All Models, 1949-1952.

Front Wheels, 1949-1950, 09074-49196.

Front Wheels, 1951-1952, 09067-09195.

Rear Wheels, 1949-1950, 09074-09196.

Rear Wheels, 1951-1952, 09067-09195.

VINCENT—H.R.D., "Comet."

Front Wheels, see separate listing.

Magneto, C.B.E., A15.

Magneto, D.E., A18.

Generator—1948 onwards, 115 and 110.

Engine Crankshaft, MS10 and RLS8.

Engine Crankshaft—some models, 8/MRJI.

Gear Box Mainshaft, 5341 and 320.

Rear Wheels, see separate listing.

VINCENT—H.R.D., "Rapide."

Front Wheels, see separate listing.

Magneto, C.B.E., A15.

Magneto, D.E., A18.

Generator—1947, 115 and LS5.

Generator—1948 onwards, 110 and 115.

Engine Crankshaft, MS10 and RLS8.

Engine Crankshaft—some models, 8/MRJI.

Gear Box Mainshaft, MS10 and LS12.

Gear Box Layshaft (2 used), LS9.

Gear Box Ratchet Shaft or Foot Change, S5.

Rear Wheels, see separate listing.

VINCENT—H.R.D., "Black Shadow."

Front Wheels, see separate listing.

Magneto, C.B.E., A15.

Magneto, D.E., A18.

Generator, 110 and 115.

Engine Crankshaft, MS10 and RLS8.

FBC Ball and Parallel Roller Bearings



Engine Crankshaft—some models, 8/MRJI.
Gear Box Mainshaft, MS10 and LS12.
Gear Box Layshaft (2 used), LS9.
Gear Box Ratchet Shaft or Foot Change, S5.
Rear Wheels, see separate listing.

VINCENT—H.R.D., "Black Lightning."

Front Wheels, see separate listing.
Magneto, C.B.E., A15.
Magneto, D.E., A18.
Engine Crankshaft, MS10 and RLS8.
Engine Crankshaft—some models, 8/MRJI.
Gear Box Mainshaft, MS10 and LS12.
Gear Box Layshaft, LS9.
Gear Box Ratchet or Foot Change, S5.
Rear Wheels, see separate listing.

Zundapp

ZUNDAPP—1947-1950 "DB200," 198 cc., Two Stroke, 3 Speed.

Front Wheel, R.H. & L.H., 7503.
Steering, 36 pcs., Steel Balls, 6 mm.
Crankshaft (2 used), 125.
Crankshaft, 117.
Connecting Rod, 18 pcs., Needle Rollers, 2.5 x 25.4 mm.
Gear Box, 7504 and Cyl. Roller, less O.R.
Gear Box, 16 pcs., Steel Rollers, 5.5 mm. x 8 mm.
Rear Wheel, R.H. & L.H., 7503.

ZUNDAPP—1950-1951 "DB201," 198 cc., Two Stroke, 3 Speed.

Front Wheel, R.H. & L.H., 7503.
Steering, 36 pcs., Steel Balls, 6 mm.
Crankshaft (2 used), 125.
Crankshaft, 117.
Connecting Rod, 18 pcs., Needle Rollers, 2.5 x 25.4 mm.
Gear Box (2 used), 16007:—
2 pcs., Steel Balls, 6 mm.
40 pcs., Steel Balls, 4 mm.
38 pcs., Steel Rollers, 5.5 mm. x 8 mm.
Rear Wheel, R.H. & L.H., 7503.

ZUNDAPP—1950-1951 "DB202," 198 cc., Two Stroke, 4 Speed.

Front Wheel, R.H. & L.H., 7503.
Steering, 36 pcs., Steel Balls, 6 mm.

Crankshaft, 1 each, 7605; 117; R325P.
Connecting Rod, 18 pcs., Needle Rollers, 2.5 x 25.4 mm.
Gear Box (2 used), 16007:—
2 pcs., Steel Balls, 6 mm.
40 pcs., Steel Balls, 4 mm.
38 pcs., Steel Rollers, 5.5 mm. x 8 mm.
Rear Wheel, R.H. & L.H., 7503.

ZUNDAPP—1952 onwards "Norma," 198 cc. Two Stroke.

"Comfort," 198 cc., Two Stroke.

Front Wheel, R.H. & L.H., 7503.
Steering, 36 pcs., Steel Balls, 6 mm.
Crankshaft, 1 each, 117, 325 and R325P.
Connecting Rod, 18 pcs., Needle Rollers, 2.5 x 25.4 mm.
Clutch (2 used), 106.
Gear Box (2 used), 16007:—
2 pcs., Steel Balls, 6 mm.
40 pcs., Steel Balls, 4 mm.
38 pcs., Steel Rollers, 5.5 mm. x 8 mm.
Rear Wheel, R.H. & L.H., 7503.

ZUNDAPP—1953 "R150-Bella," 147.9 cc., Two Stroke.
"R200-Bella," 200 cc., Two Stroke.

Front Wheel, 115 and 315.
Steering, (2 used) (FAG) 74151.
Crankshaft, 1 each, 325, 117; R325P.
Connecting Rod, 18 pcs., Needle Rollers.
Gear Box, (2 used), 16007:—
4 pcs., Steel Balls, 6 mm.
40 pcs., Steel Balls, 4 mm.
38 pcs., Steel Rollers, 5.5 x 8 mm.
Rear Wheel, 115 and 315.

ZUNDAPP—1950 onwards "KS601," Twin, 597 cc. 4 Speed.

Front Wheel, R.H. & L.H., 16005.
Steering, (2 used) (FAG) 74151.
Crankshaft, front, R135.
Crankshaft, centre, 7508.
Crankshaft, rear, R125.
Camsshaft, 1 each, R125E, less I.R. and RWUL15, less I.R.
Connecting Rod, 60 pcs., Needle Rollers, 3 mm. x 18.8 mm.
Gear Box, 1 each, 325, 7505, 125, 317.
Rear Axle Drive, 1 each, 5304, 9011K, 325, 125.
Rear Wheel, R.H., & L.H., 16005.