

SERVICE BULLETIN

FOR

Royal Enfield

MOTORCYCLES

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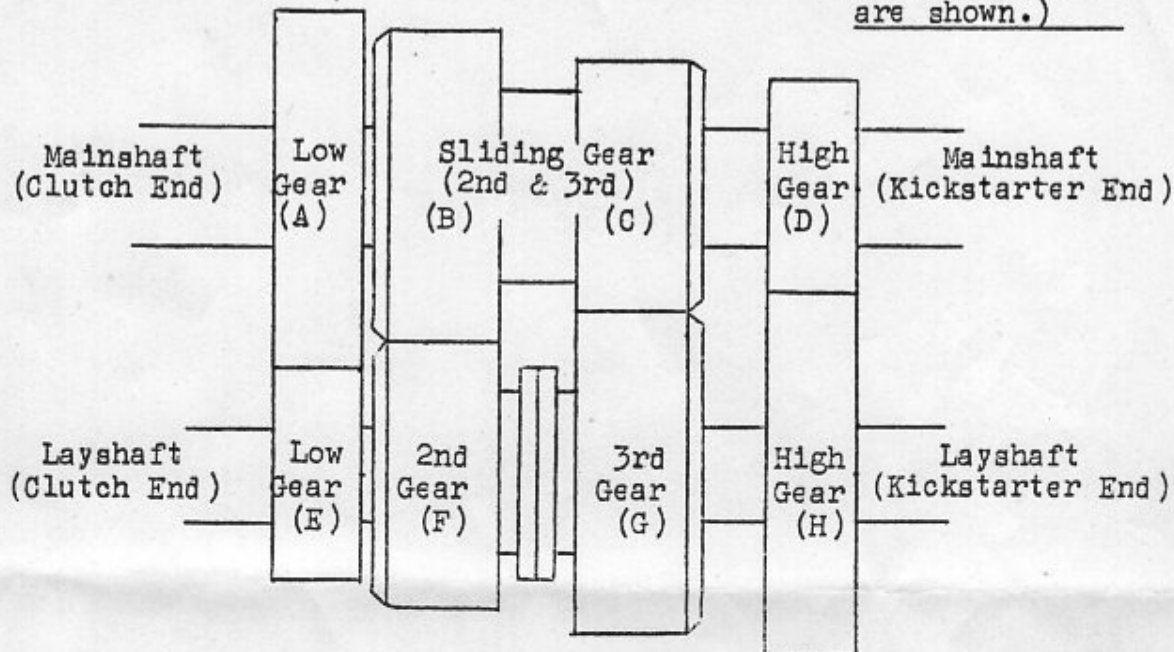
DAVENPORT 4-1555

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IDENTIFICATION CHART FOR ROYAL ENFIELD GEARBOX INTERNAL GEARS:

This chart lists the various gear sets used on all 4-speed Royal Enfield gearboxes from 1955 to date, 250cc and larger models. (Standard ratios are shown.)



1. "H" Series gears: (As used in 1955-early 1959 Indian 350cc, 500cc & 700cc models - "fine pitch" gears.)

<u>Ref.No:</u>	<u>Description:</u>	<u>Part No:</u>	<u>No.-Teeth:</u>
"A"	M/S low gear	H12/30	30 T
"B"&"C"	M/S sliding gear	H11/25/21	25 x 21 T
"D"	M/S high gear	H9/18	18 T
"E"	L/S low gear	H17/18	18 T
"F"	L/S 2nd gear	H18/23	23 T
"G"	L/S 3rd gear	H19/27	27 T
"H"	L/S high gear (& K/S wheel)	H20/30	30 T

2. "HG" Series gears: (As used in later 1959 Indian models, and all 1960 and later Royal Enfield-"coarse pitch" gears; 350cc, 500cc, 700cc and 750cc models.)

<u>Ref.No:</u>	<u>Description:</u>	<u>Part No:</u>	<u>No.-Teeth:</u>
"A"	M/S low gear	HG12/25	25 T
"B"&"C"	M/S sliding gear	HG11/21/18	21 x 18 T
"D"	M/S high gear	HG9/15	15 T
"E"	L/S low gear	HG17/15	15 T
"F"	L/S 2nd gear	HG18/19	19 T
"G"	L/S 3rd gear	HG19/22	22 T
"H"	L/S high gear (& K/S wheel)	HG20/25	25 T

NOTE: In some instances it may be found that the later, heavy-duty "HG" series gears have been previously fitted to an earlier gearbox. Individual gears are not interchangeable between the "H" series, and "HG" series gearboxes. Check before ordering replacement gears.

ROYAL ENFIELD GEARBOX CHART - Continued.....(4-speed)

3. "HJ" Series gears: (As used in 1955-1958 Indian 250cc "Fire Arrow" and "Hounds' Arrow" models-seperate gearbox, with frame plates between engine & gearbox.)

<u>Ref.No:</u>	<u>Description:</u>	<u>Part No:</u>	<u>No.-Teeth:</u>
"A"	M/S low gear	ST113	26 T
"B"&"C"	M/S sliding gear	ST112	21 x 18 T
"D"	M/S high gear	ST111	15 T
"E"	L/S low gear	ST121	16 T
"F"	L/S 2nd gear	ST122	21 T
"G"	L/S 3rd gear	ST123	24 T
"H"	L/S high gear (& K/S wheel)	ST124	27 T

4. "HJ" Series gears: (As used in 1959 Indian 250cc models, and 1960-1962 Royal Enfield "Hornet" models, based on unit-construction "Crusader" engine/gear unit.)

<u>Ref.No:</u>	<u>Description:</u>	<u>Part No:</u>	<u>No.-Teeth:</u>
"A"	M/S low gear	ST113	26 T
"B"&"C"	M/S sliding gear	HJ11/21/17	21 x 17 T
"D"	M/S high gear	ST111	15 T
"E"	L/S low gear	ST121	16 T
"F"	L/S 2nd gear	ST122	21 T
"G"	L/S 3rd gear	ST123	24 T
"H"	L/S high gear (& K/S wheel)	ST124	27 T

NOTE: To calculate the internal ratios of Royal Enfield 4-speed gearboxes, the following diagram can be used:

To find low gear: (A x H) divided by (D x E)
 To find 2nd gear: (B x H) divided by (D x F)
 To find 3rd gear: (C x H) divided by (D x G)
 To find high gear: (D x H) divided by (D x H)

5. "M" Series gears: (As used in some 1959 Indian "Apache" models, and 1959-1961 Indian "Chief" models.)

<u>Ref.No:</u>	<u>Description:</u>	<u>Part No:</u>	<u>No.-Teeth:</u>
"A"	M/S low gear	M12/25	25 T
"B"&"C"	M/S sliding gear	M11/21/18	21 x 18 T
"D"	M/S high gear	M9/15	15 T
"E"	L/S low gear	M17/16	16 T
"F"	L/S 2nd gear	M18/21	21 T
"G"	L/S 3rd gear	M19/24	24 T
"H"	L/S high gear (& K/S wheel)	M20/27	27 T