# BH

| | | | 3 Speed G. Box | 4 Speed G. Box. from Chassis 169,634 August 1932 | VANS FROM CHASSIS 166315 (B6 9719) | FROM CHASSIS 179,368 22 AUGUST. 1933 VANS from 191,742 FEB. 1934 SYNCHRO-MESH |
|---|---|---|---|---|---|---|
| BH 135 | Gear box | 1 | see BH 93 | 1A.3124 | | see BH 224 |
| .36 | Front cover | 1 | see BH.124 | 1A.3125 | | 228 |
| 137 | Joint washer | 1 | see BH.125 | 1G.3044 | | 229 |
| 138 | Setscrews (Spr. Washer see BH111) | 4 | | 2K.48 | | 230 |
| 139 | Collar for clutch pedal spring | 1 | | 1A.3133 | | ~~225~~ |
| 140 | Top cover | 1 | see BH 130 | 1G.3049 | | 225 |
| 141 | Joint washer | 1 | see BH 6 | 1G.3043 | | 226 |
| 142 | Setscrews | 6 | | 2K.48 | | 227 |
| 143 | Spring washers | 6 | | 2K.1210 | | |
| 144 | Rear cover | 1 | see BH128 | 1G.3022 | | 231 |
| 145 | Joint washer | 1 | see BH 95 | 1G.3045 | | 232 |
| 14[illegible] | Setscrews | 3 | | 2K.49 | | ~~233~~ |
| 147 | Setscrews (long) | 1 | | 2K.53 | | 233 |
| 148 | Setscrew (short) | 1 | | 2K.48 | | |
| | Spring washer see BH 14 | | | | | |

| | | | 3 Speed G. Box | 4 Speed G. Box. From Chassis 159,534 Aug. 1932 | | SYNCHRO MESH |
|---|---|---|---|---|---|---|
| BH 149 | Change Speed lever (for Touring Types see BH 209) | 1 | see BH 113 | IG. 3059 | FROM 175,450 see BH 215 | see BH 234 |
| * 150 | ~~Lever~~ Cover | 1 | | IG. 3051 | see BH 217 | 236 |
| 151 | Reverse spring | 1 | | IF. 3142 | | 238 |
| * 152 | Double coil spring washer | 1 | | 2K. 2555 | see BH 218 | 241 |
| * 153 | Spring ring | 1 | | IG. 3055 | see BH 219 | 239 |
| * 154 | Cap for top cover | 1 | | IG. 3050 | see BH 220 | 240 |
| 155 | Joint washer | 1 | | 2K. 8647 | | |
| 156 | Peg | 1 | | IG. 3054 | | ~~237~~ |
| 157 | Selector fork locking arm | 1 | | IG. 3062 | | 242 |
| 158 | Locking arm pin | 1 | | IG. 3053 | | 243 |
| 159 | Nut | 1 | | 2K. 7170 | | |
| 160 | Washer | 1 | | 2K 1203 | | |
| 161 | Split pin | 1 | | 2K. 1227 | | |
| 162 | Nut | 1 | | 2K. 3976 | | |
| 163 | Lockwasher | 1 | | 2K. 5702 | | |

3

# BH

| | | | 3 Speed G. Box. | 4 Speed G Box. from Chassis 159,534 Aug. 1932 | SYNCHRO MESH |
|---|---|---|---|---|---|
| BH 164 | 1st & 2nd Speed fork | 1 | see BH35 | 1G.3037 | see BH 244 |
| 165 | 3rd & 4th Speed fork | 1 | | 1G.3038 | 245 |
| 166 | Reverse fork (Packing see BH 207) | 1 | | 1G.3024 | 246 |
| 167 | Ball | 3 | | 2K 2721 | n.c. |
| 168 | Springs | 3 | | 2K 5049 | n.c. |
| 169 | 1st & 2nd Speed fork rod | 1 | see BH38 | 1G.3031 | 248 |
| 170 | 3rd & 4th Speed fork rod | 1 | | 1G.3032 | 249 |
| 171 | Reverse fork rod | 1 | | 1G.3033 | 250 |
| 172 | Nuts | 3 | | 2K 397[illegible] | |
| 173 | Spring washers<br>Packing washers see BH 207 | 3 | | 2K 121[illegible] | |
| 174 | Change speed gate | 1 | | 1G.3025 | 247 |
| 17[illegible] | First motion shaft | 1 | see BH131 | 1A.3126 | 253 |
| 176 | Roller bearing (~~[illegible]~~) | 1 | | 2H.1049 | 254 |
| 177 | Ring for bearing | 1 | | 1G.3040 | 255 |
| 178 | Roller bearing in shaft | 1 | | 2H.970 | |
| 179 | Ball bearing | 1 | | 2K8641 | |

contd

4

# BH

| | | | 3 Speed G. Box. | 4 Speed G. Box. From 159,534 Chassis ~~159,534~~ Sept. 1932 | SYNCHRO-MESH |
|---|---|---|---|---|---|
| BH ~~179~~ | Plug in First motion shaft. see BH210 | | | | |
| 180 | Third motion shaft | 1 | see BH 97 | 1G.3009 | see BH 257 |
| 181 | Ball bearing (same as BH43) | 1 | | 2K.5505 | 258 |
| 182 | Collar | 1 | | 1G.3058 | |
| 183 | Nut | 1 | | 2K.5350 | n.c. |
| 184 | Lockwasher | 1 | | 1A.3140 | |
| 185 | Flange | 1 | | 1A.3139 | |
| 186 | 1st & 2nd Speed wheel | 1 | see BH 72 | G1-43 ~~1G.3006/6/7~~ | 262 |
| 187 | 3rd Speed wheel | 1 | | 1G.3004 | 265 |
| 188 | Layshaft | 1 | see BH 69 | 1G.3020 | 271 |
| 189 | Setscrews | 2 | | 2K 46 | 273 |
| 19[illegible] | Spring washers | 2 | | 2K 1210 | 274 |
| 191 | Bush - front end | 1 | | 1G.3034 | |
| 192 | Bush - rear end | 1 | | 1G.3035 | |

Corlo

# BH

| | | | 3 Speed G. Box. | 4 Speed G. Box from Chassis 89,634 Sept. 1932 | SYNCHRO-MESH |
|---|---|---|---|---|---|
| | | | | 36-58 | |
| BH 193 | Driving wheel | 1 | | ~~1A 3127~~ | |
| 194 | Spring ring | 1 | | 1G.3042 | |
| 195 | 3rd Speed laygear | 1 | | 1G.3008 | } see BH 279 |
| 196 | 1st or 2nd Speed laygear | 1 | see BH 71-72 | 1G.3016 | } |
| 197 | Reverse shaft | 1 | | 1G.3021 | 280 |
| 198 | Setscrews | 2 | | 2K.46 | n.c. |
| 199 | Spring washers | 2 | | 2K.1210 | n.c. |
| 200 | Reverse wheel including bush | 1 | see BH 78 | 1G.3007/36 | n.c. |
| 201 | Bush | 1 | see BH 80-81 | 1G.3036 | n.c. |
| 202 | Speedometer driving gear | 1 | see BH 130-132 | 1A.3142 | n.c. |
| 203 | Speedometer pinion | 1 | | 1A 3143 | n.c. |
| 204 | Bush | 1 | | 1A 3144 | n.c. |
| 205 | Joint washer | 1 | | 2K 7501 | n.c. |
| 206 | Plug for oil filler | 1 | | 2K 8648 | n.c. |
| 207 | Packing washer for speed fork rods | 3 | | 2K 8727 | |

contd

# BH

| | | | | | | |
|---|---|---|---|---|---|---|
| BH208 | Clutch pedal spindle | 1 | see BH84 | BH208: 1A.3136 | | |
| * 209 | Change speed lever (2+4seater touring) | 1 | see BH149 | BH209: 1A.3147 | | see BH 216 |
| 210 | Weld plug in 1st Mo. shafts | 1 | | 2K8158 | | |
| 211 | Gear box (1932 | | | | | |
| 212 | Top cover | | | | | |
| 213 | Gear box (1933) | | | | | L.H. steering |
| 214 | Clutch pedal spindle | | | | | |
| | | | | FROM 175,450 (MAY 1933) | SYNCHROMESH | |
| * 215 | Change speed lever (Saloon) | 1 | see BH149 | BH215; 1G.3069 | | see BH 234 |
| * 216 | Change speed lever (Touring) | | see BH.209 | BH216: 1A.3154 | | 311 |
| * 217 | Cover | | see BH.150 | BH217; 1G.3070 | | 236 |
| * 218 | Double coil spring washer | | see BH 152 | BH218: 2K.2554 | | 241 |
| * 219 | Stopping ring | | see BH153 | BH219, 1G3071 | | 239 |
| * 220 | Cap (as amended) | | see BH154 | BH220: 1G3050 | | 240 |
| * 221 | Packing washer for annular spring | | (2K-6805) | BH221: 2K.8124 | | |

# BH

| | | | | |
|---|---|---|---|---|
| BH222 | Speedometer gear. VAN | 1 | | BH222: 1G.3017 |
| 223 | Speedometer pinion. VAN | 1 | | BH223: 1G.3018 |
| | | | | AUG. 1933 FROM 179.368 SYNCHRO-MESH |
| | | | PREVIOUS TYPE | |
| 224 | Gearbox | 1 | BH135 | BH224: 1A.3163 |
| 225 | Top cover | 1 | 140 | BH225: 1A.3200 |
| 226 | Joint washer | 1 | 141 | BH226: 1G.3043 |
| 227 | Setscrews | 2 | 142 | BH227: 2K.49 |
| 228 | Front cover | 1 | 136 | BH228: 1A.3161 |
| 229 | Joint washer | 1 | 137 | BH229: 1A3162 |
| 230 | Setscrews | 4 | 138 | BH230: 2K49 |
| 231 | Rear cover | 1 | 144 | BH231: 1A3159 |
| 232 | Joint washer | 1 | 145 | BH232: 1A3160 |
| 233 | Setscrews | 1 | 147 | BH233: 2K.54 |

continued

# BH

| | | | | PREVIOUS TYPE | SYNCHRO-MESH SALOON | 2+4S. TOURERS |
|---|---|---|---|---|---|---|
| BH234 | Change speed lever | 1 | | BH 149, 215 | BH234: 1A.3199 | BH241 = 311 |
| 235 | Knob | 1 | | | BH235: 1G.3056 | |
| 236 | Cover for lever | 1 | | 150 | BH236: 1F.3155 | |
| 237 | Peg | 1 | | | BH237: 1G 3054 | |
| 238 | Reverse spring | 1 | | 151 | BH238: 1A.3195 | |
| 239 | Spring ring | 1 | | 153 | BH239: 1F.3156 | |
| 240 | Cap for top cover | 1 | | 154 | BH240: 1A.3196 | |
| 241 | Double coil spring washer | 1 | | 152 | BH.241: 2K.2556 | |
| 242 | Interlock arm | 1 | | 157 | BH242: 1A3193 | |
| 243 | Pivot for interlock arm | 1 | | 158 | BH243: 1A3194 | |
| 244 | 1st + 2nd Speed fork | 1 | | 164 | BH244: 1A3157 | |
| 245 | 3rd + 4th Speed fork | 1 | | 165 | BH245: 1A.3158 | |
| 246 | Reverse fork | 1 | | 166 | BH246: 1A3156 | |

continued

# BH

| | | | PREVIOUS TYPE | SYNCHROMESH |
|---|---|---|---|---|
| BH 247 | Change speed gate | 1 | BH 174 | BH247: B8-33 |
| 248 | 1st + 2nd Speed fork rod | 1 | BH 169 | BH248: 1A3189 |
| 249 | 3rd + 4th Speed fork rod | 1 | 170 | BH249: 1A3190 |
| 250 | Reverse fork rod | 1 | | BH249: 1A3191 |
| 251 | Locknuts for fork rods | 3 | 171 | BH250: 2K3986 |
| 252 | Lockwashers (cancelled see registry) | 3 | | |
| 253 | First motion shaft with cone | 1 | 175 | BH253: B8-9 |
| 254 | Bearing 35 x 72 x 17 mm | 1 | 176 | BH254: 2K1269 |
| 255 | Ring | 1 | 177 | BH255: 1G.3040 |
| 256 | Spring ring | 1 | | BH256: 1A3164 |
| 257 | Third motion shaft | 1 | 180 | BH257: 1A3174 |
| 258 | Bearing | 1 | 181 | BH258: 2K.1270 |
| 259 | Spring ring | 1 | | BH259: 1A3165 |
| 260 | Thrust washer | 1 | | BH260: 1A3173 |
| 261 | Spring ring | 1 | | BH261: 1A3197 |

continued

# BH

| | | | PREVIOUS TYPE | SYNCHRO MESH |
|---|---|---|---|---|
| BH262 | 1st Speed wheel | 1 | BH186 | BH262: 1A3178 |
| 263 | 2nd Speed mainshaft gear with bush | 1 | | BH263 1A3180 1/75 = 88-79 |
| 264 | Bush | 1 | | BH264: 1A3175 |
| 265 | 3rd Speed mainshaft gear with cone | 1 | 187 | BH265: 88-10 |
| 266 | Sleeve for 3rd Speed mainshaft gear | 1 | | BH266: 1A.3177 |
| 267 | 3rd-4th Speed coupling sleeve | 1 | | BH267: 1A 3170 |
| 268 | 3rd-4th Speed synchroniser | 1 | | BH268: 1A 3169 |
| 269 | Springs | 6 | | BH269: 2K8985 |
| 270 | Balls | 6 | | BH270: 2K4712 |
| 271 | Layshaft | 1 | 188 | BH271: 1A.3187 |
| 272 | Joint washer | 1 | | BH272: 1A3168 |
| 273 | Setscrews - layshaft to gearbox | 2 | 189 | BH273. 2K6564 |
| 274 | Spring washers | 2 | 190 | BH274: 2K1211 |

continued

| | | | PREVIOUS TYPE | SYNCHRO-MESH |
|---|---|---|---|---|
| BH 275 | Layshaft front cover | 1 | | BH275 : 1A.3166 |
| 276 | Joint washer | 1 | | BH276 : 1A3167 |
| 277 | Setscrew to gearbox | 3 | | BH277 : 2K8984 |
| 278 | Lockwashers | 3 | | BH278 : 1E.28 |
| 279 | Laygear complete | 1 | BH 195/6 | BH279 : B8-11 |
| 280 | Reverse shaft | 1 | 197 | BH280 : 1G3021 |
| 281 | Washer for speedo pinion bush | 1 | | BH281 : 2K7499 |
| 282 to 287 | Sports. see ~~next card~~ register. | | | |
| 288 | Bush for front end of laygear | 1 | | BH288 : 1A3184 |
| 289 | Bush for rear end of laygear | 1 | | BH289 : 1A3185 |
| 290 | Spring ring for laygear | 1 | | BH290 : 1A3186 |
| ~~287~~ 311 | Change speed lever 2+4 Sector T. | 1 | BH234 | BH~~287~~ 311 : 1A.3224 |

# BH 2 & 4 — Gear Box Front Cover and Screws

Alt Nos. 1794 1998

*The Gear Box Number referred to below will be found upon the Car Record card in separate cabinet*

| | |
|---|---|
| *For Gear Boxes previous to No. 5821* | If Cover only is ordered, supply ~~XL1089~~ (1A3036) together with 6 screws *No 3047*<br>If Screws only are ordered, supply *No 3825* |
| *For Gear Boxes from 5821 onwards.* | When Cover is ordered, supply *XL1089.* (1A3036)<br>When Screws are ordered, supply *No 3047* (2K3047) |

3 Speed G Box only

# BH — SPEEDOMETER (POSITIVE DRIVE) — Alt No. 3709

| SPRING BELT DRIVE Up to Chassis No 45,015 | | | POSITIVE DRIVE From Chassis No 45,016 | |
|---|---|---|---|---|
| (see also earlier change for Gear Box) | | | | |
| BH 1 | 1A.3046 | Gear box (for Chassis 44,401 to 45,014 see separate card) | BH 93 | 1A.3067 |
| - | A1-64 | Gear box complete assemby | - | A4-3 |
| BH 10 | 1A.3025 | Gear box rear cover see also later card | ~~BH 94~~ | ~~1A.3068~~ * |
| BH 11 | 1A.3024 | Gear box rear cover washer | BH 95 | 1A.3069 |
| BH 12 | 2K.3404 | Studs (rear cover to gear box) | BH 96 | 2K.3403 |
| BH 86 | 1A.3040 | Third Motion shaft | BH 97 | 1A.3070 |
| BH 65 ~~BH 66~~ | 2K 5105 ~~2K.5543~~ | Packing shim Corkring for third motion shaft | BH 98 | 1A.3077 |
| BH 67 | 1A.3011 | Felt 3rd Mo. Shaft felt plate - now Corkring cup | BH 99 | 1A.3074 |
| - | - | Speedometer driving gear (9-44 ratio) | BH 100 | 1A.3071 |
| ● | - | Peg for speedometer gear | BH 101 | 1A.3076 |
| - | - | Speedometer driving spindle (9-44 ratio) | BH 102 | 1A.3072 |
| - | - | Speedometer spindle bush | BH 103 | 1A.3075 * 1A.3087 from June 1928 |
| - | - | Speedometer pinion thrust button | BH 104 | 1A.3073 |

continued over.....

.....continuation from over

| | | | | |
|---|---|---|---|---|
| BG 44 | 2H 44 | * Speedometer (see also below) | BG. 91 | 2H. 347 |
| BG 45 | 2H 47 | * Speedometer flexible drive | BG 92 | 2H. 348 |
| BK 26 | 1A. 5005 | Ratchet pivot | BK 38 | 1A. 3078 |
| BP 28 | 1A. 7037 | Propellor shaft | BP 73 | 1A. 7087 |
| - | A1 · 25 | Propellor shaft complete assembly | - | A4 · 4 |

* Temporary intermediate type as follows:-

| | | |
|---|---|---|
| BG 93 | Speedometer | 2H. 352 |
| BG 94 | Speedometer flexible drive | 2H. 353 |

for other parts see Work List Section 1A. 49

Applies between Chassis Nos. 45,016 & 46,800

**BH**

# SPEEDOMETER GEARS

| | | | | | |
|---|---|---|---|---|---|
| | ~~8·4·5~~ 9·44 RA RATIO | 8·42 RA RATIO | 9-51 8·4·5 | [illegible] Car Box | VAN ONLY with 4 Speed BOX and Speedo 24347 Rovi Chassis 106315 Car No. B6.9719 |
| SPEEDOMETER DRIVING GEAR | BH100: 1A3071 (4) | BH132: 1A3120 (5) | BH100 1A3071 (5) | BH202 1A3142 | 1G3017 |
| SPEEDOMETER DRIVING SPINDLE | BH102: 1A3072 (7 teeth) | BH133: 1A3121 (9 teeth) | BH134 1A3081 (8 teeth) | | |

| | | |
|---|---|---|
| Speedometer pinion | BH203: 1A3143 (8 teeth) | 1G3018 |
| Speedo flex | | 24.881 |
| Speedometer | | 24347 |

S-45
Synchro.

Speedo. gears. 1A 3145

Speedo. pinion 1A 3143

**BH 51**

# 1st Motion Shaft

Alt. No. 2473

*The [illegible]ter type (see back of card) to be sent always - in pairs, and client advised accordingly.*
*The record below is incomplete, missing numbers being uncertain.*
*The Gear Box Numbers given are as those entered on individual Car Record cards.*

## Gear Boxes fitted with First type (stub tooth)

| | | | | |
|---|---|---|---|---|
| 8108 | 8250 | | | |
| 8143 | 8257 | | | |
| 8144 | 8258 | | | |
| 8166 | 8274 | | | |
| 8179 | 8277 | | | |
| 8182 | 8278 | | | |
| 8[illegible] | | | | |
| 8197 | | | | |
| 8218 | | | | |
| 8243 | | | | |
| 8246 | | | | |

## Gear Boxes fitted with Second type (full tooth)

| | | | | |
|---|---|---|---|---|
| 7853 | 8171 | 8196 | 8232 | - to |
| 8059 | 8174 | 8198 | 8234 | 8256 |
| 8069 | to | 8199 | to | 8260 |
| 8087 | 8177 | 8201 | 8238 | to |
| 8091 | 8180 | to | 8240 | 8268 |
| 8109 | 8181 | 8209 | 8241 | 8270 |
| 8121 | 8183 | 8211 | 8242 | 8271 |
| 8124 | to | to | 8244 | |
| 8148 | 8187 | 8216 | 8245 | |
| 8169 | 8189 | 8219 | 8249 | |
| 8170 | to - | to - | 8252 | |

| First type - stub tooth | | | Second type - full tooth | |
|---|---|---|---|---|
|  | | |  | |
| Catalogue No. | | | Catalogue No. | |
| BH 51 | ~~XL 167~~ | 1st Motion Shaft | BH | (IA 3043) XL 1284 |
| BH 70 | XL 171 | Constant Mesh Wheel | | (IA 3044) XL 1285 |

# BH 51 & 60

## 1st. Motion Shaft & 3rd. Motion Shaft Bush

Alt. No 4104

| Up to Chassis No. 61,323 and on to 62,323 with exceptions detailed on Card BJ6 | | | From Chassis No. 62,324 and also the numbers detailed on Card BJ6 | |
|---|---|---|---|---|
| BH 51 | * A1-97 ~~1A.3047~~ | First Motion Shaft with bush | BH 51 | A6-4 * ~~1A.3083~~ (25 splines) |
| BH 60 | 1A.3007 * 464 when used up, 1A.3083/5 can be used. | Third Motion Shaft Bush | BH 60 | 1A.3085 |

One spline removed from G.B. No 4817 K (July 1930)

BH 131 : B1-47 (24 splines)

BH 59

# 3rd. Motion Shaft

Alt. No. 1825

(1A3040)

| 1st Design | Cars having XL 912 | | | 2nd Design | Cars having XL 1181 | | |
|---|---|---|---|---|---|---|---|
| A 1 to 2994 ind. | | | | 2995 to 2997 incl | | | |
| 2998 | | | | 3000 to 3023 incl | | | |
| 2999 | | | | 3025 to 3076 incl | | | |
| 3024 | | | | 3078 to 3125 incl | | | |
| 3077 | | | | 3127 to 3181 incl | | | |
| 3126 | | | | 3183 to 3208 incl | | | |
| 3182 | | | | 3210 to 3220 incl | | | |
| 3209 | | | | 3222 to 45,015 after which see card for Speedo Positive drive. | | | |
| 3221 | | | | | | | |

For other titles, see over.

| | | 1st Design | 2nd Design | |
|---|---|---|---|---|
| BH 59 | 3rd Motion Shaft | XL 912 | (1A 3040) XL 1181 | BH 86 is also tab. card for Speedo. Positive drive. |
| BH 68 | Front U.J. Cover | XL 916 | - | |
| BP 1 | Propellor Shaft | XL 1047 | (1A 7037) XL 1182 | |
| BP 2 to 9 | Front U.J. Parts | XL 706 etc. | - | |
| - | Fabric Univ. Joint | - | (1A 7038) XL 1176 | |
| - | Fabric Joint Bolts (6) | - | (1A 7060) XL 1183 | |
| - | Nuts for Bolts (6) | - | (2K 5369) S. 3315 | |
| - | Nuts for Bolts (6) | - | (2K 3986) No 3986 | |
| - | Lockwashers (6) | - | (2K 5811) S. 3346 | |
| - | Split Pins (6) | - | (2K 1232) No 1232 | |

7-HP. GEARBOX FRONT AND REAR COVERS. BH

| | Previous type as in List 1406 D. & 1586 Pages 29 and 30 | To take leather oil seal. From Engine 279,446 (November 1937) |
|---|---|---|
| Front Cover | 1A 3161 | 1A 3250 |
| Oil Seal for front cover | - | 1A 3252 |
| Rear Cover | 1A 3213 | 1A 3251 |
| Oil Seal for rear cover | - | 1A 3253 |

1st.December 1937.20409. C.B.K.

7-HP GEARBOX FOR HIGH FRAME. BH

| | Previous type with fabric joint as in List 1218 Page 31. | Needle type Prop: Shaft Bearing as from Chassis 216,701. (March 1935) |
|---|---|---|
| Propeller shaft flange | BH 185; 1A 3139 | BH 292; 1A 3207 |
| Gear box assembled. | C1-~~98~~ 65 | C1-~~65~~ 156 |

CBK. 14th June, 1935. 13360.

7-HP. 3RD.SPEED MAINSHAFT GEAR AND SLEEVE. BH.

| | Previous type for Synchro From 179,368 (Aug: 1933) As in List 1586. Pages 31 and 32. | Altered bearing surface From Chassis 281,955 December 1937. |
|---|---|---|
| 3rd.Speed Mainshaft gear and sleeve | B8-10 | C1-325 |
| Sleeve | 1A 3177 | 1A 3255 |

7th.February 1938. C.B.K. 20630

7-HP. G E A R B O X BH.

| | Previous type as in List 1218.A. Pages 29 and 30. | From Chassis 241,738 March 1936 |
|---|---|---|
| Gearbox - Standard - R.H. Steering | 1A.3211: BH 297 | 1A.3234 |
| Gearbox - Standard - L.H. Steering | 1A.3212: | 1A.3235 |
| Gearbox - Sports - R.H. Steering | 9E.176: BH 312 | 9E.218 |
| Gearbox - Sports - L.H. Steering | 9E.190: | 9E.219 |
| 1st. & 2nd. Speed Fork Rod | 1A.3189: BH 248 | 1A.3232 |
| Shim (steel .002-ins. thick) | - - | 2K.5203 (3) |
| Shim (steel .005-ins. thick) | - - | 2K.5204 (3) |
| Shim (steel .022-ins. thick) | - - | 2K.5205 (1) |
| Locating plate for rod | - - | 1A.3233 |
| Spring Washer | - - | 2K.1212 |

15th. May 1936 - C.B.K.....16587

# BH — BALL CHANGE SPEED MECHANISM — Alt. Nos. 8114, 8095

| GATE TYPE | BALL TYPE |
|---|---|
| To CHASSIS NO. 99,000 but see car records for earlier cars converted | From CHASSIS NO. 99,001 29 October 1929 |

| | A4-3 | | | B1-8A (long chassis) B1-8 |
|---|---|---|---|---|
| | | GEAR BOX ASSEMBLY | | |
| BH90 | 1A.3064 | CHANGE SPEED LEVER | BH113 | 1A.3102 |
| BH.107 | 1A.3088 | CHANGE SPEED LEVER (Coupé) | BH114 | 1A.3108 |
| BH21 | 1A.3010 | KNOB | BH115 | 1A.3103 |
| BH 5 | 1A.3041 | GEAR BOX TOP COVER } See also separate card for these parts. | ~~BH116~~ | ~~1A.3099~~ |
| BH38 | 1A.3015 | 1ST & REVERSE FORK ROD } | ~~BH121~~ | ~~1A.3101~~ |
| BH35 | 1A.3047 | GEAR CHANGE FORK } | ~~BH123~~ | ~~1A.3100~~ |
| BH105 | 1A.3079 | GEAR BOX FRONT COVER | BH124 | 1A.3094 |
| BH106 | 1A.3080 | FRONT COVER WASHER | BH125 | 1A.3095 |
| ●4 | 1A.3068 | GEAR BOX REAR COVER | BH128 | 1A.3098 |

**BH**

# CHANGE SPEED LEVER AND GATE, ETC.

Alt. No. 2768

| Up to Chassis No. 41,030 (July 1927) | | | From Chassis No. 41,031 To Chassis No. 99,000 | |
|---|---|---|---|---|
| BH 15 | 1A.3017 | Gear Change Gate | BH.89 | 1A.3065 |
| BH 20 | 1A.3027 | Change Speed Lever (standard) | BH 90 | 1A.3064 |
| - | 1A.3060 | Change Speed Lever (sports) | | |
| BH 23 | 1A.3030 | Reverse Catch Rod | BH 91 | 1A.3061 |
| BH 26 | 1A.3028 | Reverse Catch | BH 92 | 1A.3066 |

BH

# GEAR BOX FRONT COVER

| | GEAR BOX NOS. 1 to 5820 | GEAR BOX NOS. From 5821 | Intermediate type No record About 90 made | CHASSIS NOS. From 45,016 | CHASSIS NOS. From 99,001 29 October '29 | CHASSIS NOS. From 159,534 Sept 1931 4 SPD. GEARBOX |
|---|---|---|---|---|---|---|
| GEAR BOX FRONT COVER | BH2 : 1A3036 together with 6 screws 2K3047 | BH2 : 1A3036 | 9A ..... ? | BH105 : 1A3079 | BH124 : 1A3094 | BH136 : 1A3125 |
| FRONT COVER WASHER | BH3 : 1A3023 | BH3 : 1A3023 | - | BH106 : 1A3080 | BH125 : 1A3095 | BH137 : 1G3044 |

TURN OVER

CHASSIS NOS.

From 179368
Aug. 1933
SYNCHROMESH.

| | |
|---|---|
| GEAR BOX FRONT COVER | BH228 . JA3161 |
| FRONT COVER WASHER | BH229 . JA3162 |

**BH**

# GEAR BOX PARTS

| | To CHASSIS 19,000 | From 19,001 to 45,015 | From 45,016 to 99,000 | From 99,001 to 113,067 | From 113,068 | From GEARBOX K 6290 Approx. Chassis 116,000 1930–32 | From CHASSIS 159,534 September 1932 4 SPD. GEAR BOX Nos from 166,315 (December 1932) |
|---|---|---|---|---|---|---|---|
| GEAR BOX TOP COVER | BH5 : 1A 3041 | | | BH116 : 1A 3099 1A 3261 (Oil) | BH130 : 1A 3119 | | BH140 : 1G 3049 |
| GEAR BOX REAR COVER | BH10 : 1A 3015 | | BH94 : 1A 3068 | BH128 : 1A 3098 | | | BH144 : 1G 3022 |
| GEAR CHANGE FORK | BH35 : XL 555 | BH35 : 1A 3047 | | BH123 : 1A 3100 | BH35 : 1A 3047 | | SEE BH 164 5 6 |
| 1ST & REVERSE FORK ROD | BH38 : 1A 3015 | | | BH121 : 1A 3101 | or BH38 : 1A 3015 | BH38 : 1A 3015 | SEE BH 169 70 1 |

TURN OVER

| | |
|---|---|
| | From<br>CHASSIS 179368<br>August 1933<br>SYNCHRO-MESH |
| GEAR BOX<br>TOP COVER | BH225:1A3200 |
| GEAR BOX<br>REAR COVER | BH231:1A3159 |

**BH** GEAR BOX, REAR COVER & CHANGE FORK Alt. Nos. 2619 3709

| ● | Up to Chassis No. 19,000 | From Chassis No. 19,001 to 44,400 | From Chassis No. 44,401 to 45,015 (Temporary type) | From Chassis No. 45,016 |
|---|---|---|---|---|
| Gear Box | BH 1 XL 930 (see footnote) | BH 1 1A 3046 | Fitted with new type Gear Box 1A 3067 drilled to suit old type Rear Cover 1A 3025. Replace by new type Gear Box 1A 3067 together with new type Rear Cover 1A 3068 with Speedometer Cable hole plugged up. Or 1A 3025 alone. | BH 93 1A 3067 |
| Rear Cover | BH 10 1A 3025 | BH 10 1A 3025 | | ~~BH 94 1A 3068~~ * see also later card |
| (●)ar Change Fork | BH 35 XL 555 (see footnote) | BH 35 1A 3047 | — Fork not affected by this alteration — | BH 35 1A 3047 see also later card |

Gear Box XL 930 can be replaced by 1A 3046 if Change Fork 1A 3047 is included.

**BH 70 [redacted]** Constant Mesh [redacted] Wheel Alt. No 2473

*The later type (see back of card) to be sent always – in pairs, and client advised accordingly. The record below is incomplete, missing numbers being uncertain.*
*The Gear Box Numbers below are as those entered on individual Car Record Cards.*

Gear Boxes fitted with First type

| | | | | |
|---|---|---|---|---|
| 8108 | 8250 | | | |
| 8143 | 8257 | | | |
| 8144 | 8258 | | | |
| 8166 | 8274 | | | |
| 8179 | 8277 | | | |
| 8182 | 8278 | | | |
| 8188 | | | | |
| [redacted]7 | | | | |
| 8218 | | | | |
| 8243 | | | | |
| 8246 | | | | |

Gear Boxes fitted with Second type

| | | | | |
|---|---|---|---|---|
| 7853 | 8171 | 8198 | 8234 | 8260 |
| 8059 | 8174 | 8199 | to | to |
| 8069 | to | 8201 | 8238 | 8268 |
| 8087 | 8177 | to | 8240 | 8270 |
| 8091 | 8180 | 8209 | 8241 | 8271 |
| 8109 | 8181 | 8211 | 8242 | |
| 8121 | 8183 | to | 8244 | |
| 8124 | to | 8216 | 8245 | |
| 8148 | 8187 | 8219 | 8249 | |
| 8169 | 8189 | to | 8252 | |
| 8170 | to | 8232 | to | |
| | 8196 | | 8256 | |

| Catalogue No | First type with cropped teeth | | Second type with full teeth |
|---|---|---|---|
| | | | (IA 3044) |
| BH 70 | XL 171 | Constant Mesh Wheel | XL 1285 |
| [redacted] | [redacted] | [redacted] | [redacted] |
| | | | (IA 3043) |
| BH 51 | XL 167 | 1st Motion Shaft | XL 1284 |

BH

7-HP

## CHANGE SPEED LEVER

From Chassis 175,450 (May 1933) the Change speed lever is strengthened at the base, and adjoining parts are increased in size to suit. The new parts are supplied together under assembly number B7-3 (S) B7-4 (T)

| | NOW OBSOLETE | NOW CURRENT |
|---|---|---|
| Change speed lever (Saloon) | BH 149: 1G 3059 | BH 215: 1G 3069 |
| Change speed lever (Touring) | BH 209: 1A 3147 | BH 216: 1A 3153 |
| Cover | BH 150: 1G 3051 | BH 217: 1G 3070 |
| Packing washer | - 2H 6805 | BH 221: 2K 8124 |
| Spring ring | BH 153: 1G 3055 | BH 219: 1G 3071 |
| Double coil spring washer | BH 152: 2K 2555 | BH 218: 2K 2554 |
| Cap | BH 154: 1G 3050 | BH 220: 1G 3050 (amended) |

NOT SYCHRO MESH.

13th June 1933. 10863

INDEX

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| BH 14 | Sheet | 1 | BH 204 | Sheet | 6 | BH 253 | Sheet | 4 | BH 280 | Sheet | 6 |
| BH 28 | " | 2 | BH 206 | " | 2 | BH 254 | " | 4 | BH 281 | " | 6 |
| BH 29 | " | 2 | BH 225 | " | 1 | BH 255 | " | 4 | BH 288 | " | 6 |
| BH 30 | " | 2 | BH 226 | " | 1 | BH 256 | " | 4 | BH 289 | " | 6 |
| BH 31 | " | 2 | BH 227 | " | 1 | BH 258 | " | 4 | BH 290 | " | 6 |
| BH 104 | " | 6 | BH 228 | " | 1 | BH 259 | " | 4 | BH 292 | " | 5 |
| BH 111 | " | 1 | BH 229 | " | 1 | BH 261 | " | 4 | BH 297 | " | 1 |
| BH 127 | " | 1 | BH 230 | " | 1 | BH 265 | " | 4 | BH 298 | " | 1 |
| BH 142 | " | 1 | BH 233 | " | 1 | BH 266 | " | 4 | BH 299 | " | 1 |
| BH 143 | " | 1 | BH 234 | " | 2 | BH 267 | " | 5 | BH 300 | " | 3 |
| BH 146 | " | 1 | BH 235 | " | 2 | BH 268 | " | 5 | BH 301 | " | 3 |
| BH 155 | " | 2 | BH 236 | " | 2 | BH 269 | " | 5 | BH 302 | " | 3 |
| BH 167 | " | 3 | BH 237 | " | 2 | BH 270 | " | 5 | BH 303 | " | 3 |
| BH 168 | " | 3 | BH 238 | " | 2 | BH 271 | " | 5 | BH 304 | " | 3 |
| BH 183 | " | 4 | BH 239 | " | 2 | BH 272 | " | 5 | BH 305 | " | 4 |
| BH 184 | " | 5 | BH 240 | " | 2 | BH 273 | " | 5 | BH 306 | " | 4 |
| BH 198 | " | 6 | BH 241 | " | 2 | BH 274 | " | 5 | BH 307 | " | 4 |
| BH 199 | " | 6 | BH 243 | " | 3 | BH 275 | " | 5 | BH 308 | " | 4 |
| BH 200 | " | 6 | BH 248 | " | 3 | BH 276 | " | 5 | BH 309 | " | 4 |
| BH 201 | " | 6 | BH 249 | " | 3 | BH 277 | " | 5 | BH 310 | " | 4 |
| BH 202 | " | 6 | BH 250 | " | 3 | BH 278 | " | 5 | | | |
| BH 203 | " | 6 | BH 251 | " | 3 | BH 279 | " | 6 | | | |

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## GEARBOX
### 2nd, 3rd and 4th Synchromesh.

| BH | | No. per car | | |
|---|---|---|---|---|
| 297 | GEARBOX | 1 | 1A 3211 | FROM 24,738 MAR 36 CAR07 |
| 225 | TOP COVER | 1 | 1A 3200 | |
| 226 | Joint Washer | 1 | 1G 3043 | |
| 142 | Setscrews | 4 | 2K 48 | |
| 227 | Setscrews | 2 | 2K 49 | |
| 143 | Spring washers | 6 | 2K 1210 | |
| 228 | FRONT COVER | 1 | 1A 3161 | FROM ENG. 279,446 NOVEM. 1937 ·326 |
| 229 | Joint washer | 1 | 1A 3162 | |
| 230 | Setscrews | 4 | 2K 49 | |
| 111 | Spring washers | 4 | 2K 1210 | |
| 127 | Spring ring | 1 | 1A 3097 | |
| 298 | REAR COVER | 1 | 1A 3213 | FROM ENG. 279,446 NOVEM. 37 ·328 |
| 299 | Joint washer | 1 | 1A 3214 | |
| 146 | Setscrew | 3 | 2K 49 | |
| 233 | Setscrew | 1 | 2K 54 | |
| 14 | Spring washers | 4 | 2K 1210 | |

Continued-

# GEARBOX

## 2nd, 3rd and 4th Synchromesh



| BH | | No. per car | | |
|---|---|---|---|---|
| 206 | PLUG FOR OIL FILLER | 1 | 2K 8648 | |
| 30 | DRAIN PLUG | 1 | 2H 8 | |
| 31 | Washer for drain plug | 1 | 2K 4960 | |
| 28 | COVER FOR DRAIN HOLE | 1 | 1A 3032 | discontinued 1937 |
| 29 | Washer for cover | 1 | 2K 4919 | See Art. 20423 |
| 234 | CHANGE SPEED LEVER | 1 | 1A 3199 | Saloon & Van only. TOURER 1A 3224 B4 311 |
| 235 | Knob | 1 | 1G 3056 | |
| 236 | COVER FOR LEVER | 1 | 1F 3155 | |
| 237 | Peg | 1 | 1G 3054 | |
| 238 | REVERSE SPRING | 1 | 1A 3195 | |
| 239 | Spring ring | 1 | 1F 3156 | |
| 240 | CAP FOR TOP COVER | 1 | 1A 3196 | |
| 155 | Joint washer | 1 | 2K 8647 | |
| 241 | Double coil spring washer | 1 | 2K 2556 | |
| 311 | Change speed lever. 2 & 4 seat Tourer | 1 | 1A 3224 | |

Continued

## GEARBOX
### 2nd, 3rd and 4th Synchromesh

| BH | | No. per car | |
|---|---|---|---|
| 300 | INTERLOCK ARM | 1 | 1A 3202 |
| 243 | Pivot | 1 | 1A 3194 |
| 301 | 1st, & 2nd SPEED FORK | 1 | 1A 3223 |
| 302 | 3rd & 4th SPEED FORK | 1 | 1A 3205 |
| 303 | REVERSE FORK | 1 | 1A 3206 |
| 167 | BALLS FOR FORK 9/32" dia. | 3 | 2K 2721 |
| 168 | SPRINGS | 3 | 2K 5049 (D.O. No. 15764) |
| 304 | CHANGE SPEED GATE INCLUDING INTERLOCK ARM AND PIVOT. | 1 | ~~91-29~~ B9-4 |
| 248 | 1st & 2nd SPEED FORK ROD | 1 | 1A 3189 FROM 1,738 MAR. '36 CARD 7 |
| 249 | 3rd & 4th SPEED FORK ROD | 1 | 1A 3190 |
| 250 | REVERSE FORK ROD | 1 | 1A 3191 |
| 251 | Locknuts for fork rods | 3 | 2K 3986 |

Continued-

## GEARBOX
### 2nd, 3rd and 4th Synchromesh

| BH | | No. per car | | |
|---|---|---|---|---|
| 253 | FIRST MOTION SHAFT WITH CONE | 1 | B8-9 | |
| 254 | BEARING 35 x 72 x 17 mm. | 1 | 2H 1317 | |
| 176 | Roller bearing R & M. X1154. | / | 2H.1049 | |
| 255 | Ring | 1 | 1G 3040 | |
| 256 | Spring ring | 1 | 1A 3164 | |
| 178 | Roller bearing in shaft | / | 2H.970 | |
| 305 | THIRD MOTION SHAFT | 1 | 1A 3216 | |
| 258 | BEARING 1 x 2½" x 3/4" | 1 | 2H 1318 | OR 1A 3740 |
| 306 | Housing | 1 | 1A 3215 | |
| 259 | Spring ring | 1 | 1A 3165 | |
| 307 | Thrust Washer | 1 | 1A 3217 | |
| 183 | Nut | 1 | 2K 5350 | |
| 261 | Spring ring | 1 | 1A 3197 | |
| 308 | 1st SPEED WHEEL | 1 | 1A 3221 | |
| 309 | 2nd SPEED MAINSHAFT GEAR WITH CONE. | 1 | ~~1A 3218~~ | C1-86 |
| 310 | Synchroniser | 1 | 1A 3222 | |
| 265 | 3rd SPEED MAINSHAFT GEAR WITH CONE. | 1 | B8-10 | FROM 281,955 DEC. 1938 - 330 |
| 266 | Sleeve | 1 | 1A 3177 | - 331 |

Continued

# GEARBOX
## 2nd, 3rd and 4th Synchromesh



| BH | | No. per car | | |
|---|---|---|---|---|
| 267 | 3rd & 4th SPEED COUPLING SLEEVE | 1 | 1A 3170 | |
| 268 | 3rd & 4th SPEED SYNCHRONISER | 1 | 1A 3169 | + 3 stronger springs 2K8905 |
| 269 | Springs | 12 | 2K 8985 | |
| 270 | Balls | 12 | 2K 4712 | |
| 292 | PROPELLER SHAFT FLANGE | 1 | 1A 3207 | HIGH FRAME SEE CARD * |
| 184 | Lockwasher for nut | 1 | 1A 3140 | |
| 271 | LAYSHAFT | 1 | 1A 3187 | |
| 272 | Joint washer | 1 | 1A 3168 | |
| 273 | Setscrew, layshaft to gearbox | 2 | 2K 6564 | |
| 274 | Spring washers | 2 | 2K 1211 | |
| 275 | LAYSHAFT FRONT COVER | 1 | 1A 3166 | |
| 276 | Joint washer | 1 | 1A 3167 | |
| 277 | Setscrews to gearbox | 3 | 2K 8984 | |
| 278 | Lockwashers | 3 | 1E 28 | |

Continued-

# GEARBOX.

## 2nd, 3rd and 4th Synchromesh.



| BH. | | No. per car | |
|---|---|---|---|
| 279 | LAYGEAR COMPLETE INCLUDING BUSHES, FRONT AND REAR, AND SPRING RING. | 1 | B8-11 |
| 288 | Bush -- front end | 1 | 1A 3184 |
| 289 | Bush -- rear end | 1 | 1A 3185 |
| 290 | Spring ring | 1 | 1A 3186 |
| 280 | REVERSE SHAFT | 1 | 1G 3021 |
| 198 | Setscrews to gearbox | 2 | 2K 46 |
| 199 | Spring washers | 2 | 2K 1210 |
| 200 | REVERSE WHEEL INCLUDING BUSH | 1 | 1G 3007/36 |
| 201 | Bush (OR BH315) see below | 1 | 1G 3036 |
| 202 | SPEEDOMETER DRIVING GEAR | 1 | 1A 3142 |
| 203 | SPEEDOMETER PINION (8 teeth) | 1 | 1A 3143 |
| 204 | Bush | 1 | 1A 3144 |
| 281 | Washer | 1 | 2K 7499 |
| 104 | Thrust button | 1 | 1A 3073 |
| 315 | Reverse wheel bush (nickel-lead-bronze-wrapped) | 1 | 1G.3115 |

continued

| | | | | |
|---|---|---|---|---|
| PREVIOUSLY | | | | |
| BH297 CARD 1 | ·316 | Gearbox (R.H.Steering. except Sports)(16587) | 1 | 1A.3234 |
| | ·317 | Gearbox (L.H.Steering. except Sports) | 1 | 1A.3235 |
| | ·318 | Gearbox (SPORTS R.H. Steering) | 1 | 9E.218 |
| | ·319 | Gearbox (SPORTS L.H. Steering) | 1 | 9E.219 |
| BH148 CARD 3 | ·320 | 1st & 2nd Speed Fork rod | 1 | 1A.3232 |
| | ·321 | Shim (steel .002-ins. thick | as req'd | 2K.5203 |
| | ·322 | Shim (steel .005-ins. thick | as req'd | 2K.5204 |
| | ·323 | Shim (steel .022-ins. thick | 1 | 2K.5205 |
| | ·324 | Locating plate for rod | 1 | 1A.3233 OR 3245 |
| | ·325 | Spring Washer | 1 | 2K.1212 |
| | | NOVEMBER 1937 | | FROM ENGINE 279,446 |
| BH228 CARD 1 | ·326 | Front Cover for gearbox (to suit leather oil seal. 20409) | 1 | 1A.3250 |
| | ·327 | Oil Seal for front cover | 1 | 1A.3252 |
| BH298 CARD 1 | ·328 | Rear Cover for gearbox (1A3260 C.I. alt/ve) | 1 | 1A.3251 |
| | ·329 | Oil Seal for rear cover | 1 | 1A.3253 |
| | | DECEMBER 1937 | | FROM CHASSIS 281,955 |
| BH265 CARD 4 | ·330 | 3rd Speed mainshaft Gear with cone | 1 | C1-325 |
| BH266 - 4 | ·331 | Sleeve | 1 | 1A.3255 |

7-HP. SUMMARY OF CHANGES IN GEAR BOX SECTION FROM 1934. BH.

| | | |
|---|---|---|
| 1934 July | Ch.198,596 | 2nd. Speed Synchro on Low Frame |
| | Ch.198,678 | 2nd. Speed Synchro on High Frame including Sports but not Van. |
| 1935 May | - | Zinc bush for clutch pedal spindle (14359) |
| Oct. | Ch.234,221 | Clevite bush for reverse wheel (15654) |
| 1936 Mar. | Ch.241,738 | 1st. and 2nd. Speed fork rod (16587) detailed numbers on production note |
| July | Ch.249,701 | Borg & Beck clutch plate |
| 1937 Nov. | Eng.279,446 | Oil seal in front and rear covers (20409) |
| Dec. | Ch.281,955 | 3rd. Speed Mainshaft gear and sleeve bearing surface (20630) |

7th. February 1938. C.B.K.