

Hewland and Webster Gears

Hewland and Webster Mk 9 Gearsets and Dog Rings

These gears work in Hewland and Webster Mk 4, 6, 8 and 9 gearboxes. They are designed to fit the 1.00 inch diameter layshaft with 6 spline teeth. Hewland "M" and Webster Nuovo gears are designed for high strength – both are suitable for 2.0L applications, even in the low gear ratios. These are the latest, most sophisticated tooth design.

While your gears are out, check your dog rings for wear and damage! Replace dog rings if the dog lugs are not visibly tapered or are rounded off more than 25%.

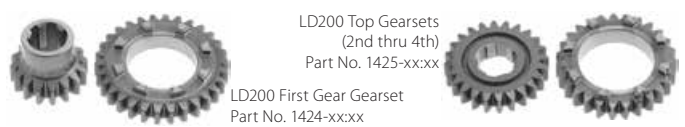
Hewland "M" Mk 9 Gearsets, specify ratioPart No. 1404-xx:xx... \$389.99
Webster Nuovo Mk 9 Gearsets, specify ratioPart No. 1408-xx:xx... \$279.99

Webster Mk 9 Dog Clutch RingPart No. 1410-A47 \$209.99
Hewland Mk 9 Dog Clutch RingPart No. 1410-A47H... \$244.99

Mk 9 Gearset Ratios

Mk 9 Gearset Ratios											
H = Hewland M Class						W = Webster Nuovo					
Tooth Ratio	Decimal Ratio	Brand	Tooth Ratio	Decimal Ratio	Brand	Tooth Ratio	Decimal Ratio	Brand	Tooth Ratio	Decimal Ratio	Brand
14:36	2.571	H	18:34	1.889	H	21:30	1.429	H	24:28	1.167	W
15:35	2.333	H	18:33	1.833	H	21:29	1.381	W	24:27	1.125	H
15:36	2.400	W	18:32	1.778	H	22:30	1.364	W	24:26	1.083	H
16:35	2.188	H	19:33	1.737	H	22:29	1.318	H	25:26	1.040	H
16:34	2.125	H	19:32	1.684	W	22:28	1.273	W	24:24	1.000	H
17:35	2.059	H	19:31	1.632	W	23:29	1.261	H	26:25	0.962	W
17:34	2.000	W	20:31	1.550	H	23:28	1.217	H	26:24	0.923	H
17:33	1.941	W	20:30	1.500	H	23:27	1.174	W	27:24	0.888	H

Hewland LD200 Gearsets and Dog Rings



LD200 Top Gearsets (2nd thru 4th)
Part No. 1425-xx:xx
LD200 First Gear Gearset
Part No. 1424-xx:xx

These high-strength Hewland gearsets and dog rings fit LD200 gearboxes. Note that First Gear gearsets are different than Top Gear gearsets. The extended snout on the layshaft gear of the First Gear gearset offers greater strength for high-torque applications.

Hewland LD200 First Gear Gearsets, specify ratioPart No. 1424-xx:xx... \$409.99
Hewland LD200 Top Gearsets (2nd thru 4th), specify ratio ..Part No. 1425-xx:xx... \$394.99
Webster LD200 Dog Clutch RingPart No. 1426 \$244.99

First Gear LD200 Gearsets

Tooth Ratio	Decimal Ratio	Tooth Ratio	Decimal Ratio
16:35	2.188	16:30	1.875
16:34	2.125	16:29	1.813
17:35	2.059	17:30	1.765
15:30	2.000	17:29	1.706
		18:27	1.500

Top Gear (2nd thru 4th) LD200 Gearset Ratios

Tooth Ratio	Decimal Ratio	Tooth Ratio	Decimal Ratio	Tooth Ratio	Decimal Ratio	Tooth Ratio	Decimal Ratio
15:30	2.000	18:28	1.556	19:25	1.316	19:22	1.158
16:30	1.875	16:24	1.500	21:27	1.286	21:24	1.143
16:29	1.813	17:25	1.471	19:24	1.263	19:21	1.105
17:30	1.765	19:27	1.421	21:26	1.238	24:26	1.083
17:29	1.706	18:25	1.389	19:23	1.211	23:24	1.043
17:28	1.647	20:27	1.350	21:25	1.190	24:24	1.000

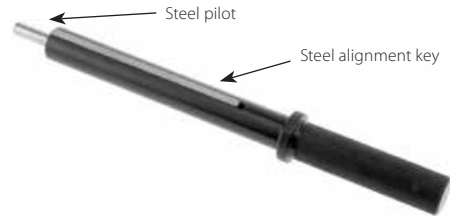
Hewland Gear Changing and Maintenance

A Pegasus Exclusive!



Mk 9 Gear Change Tray If you're tired of trying to balance your valuable bearing carrier assembly on blocks of wood and making a mess with gear lube when changing gears, then this tray is for you. It is designed for use with Hewland Mk 4 through Mk 9 series and Webster Model 300 / 400 gearboxes. The posts slip over the bearing carrier rear cover studs to securely hold the bearing carrier upright. The carrier is held high enough that you can access the layshaft nut. A side tray holds the layshaft while the main tray catches all of the dripping gear lube for recycling. Measures 12.3" x 9.3" x 3.8" high including support posts.

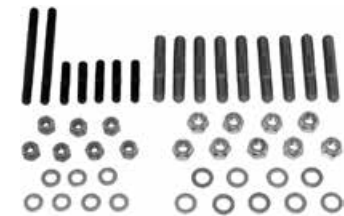
Mk 9 Gear Change Tray..... Part No. 1409..... \$79.99



LD200 Gear Change Tool Using the proper tool will make it much easier to assemble the gear stack onto the pinion shaft on 4-speed Hewland LD200 gearboxes. The small diameter pilot is designed to fit into the end of your pinion shaft. The key along the length of the tool keeps the gear stack splines aligned correctly so the entire stack slides on without a struggle. Replaces Hewland "dummy shaft" tool #SK704-B. Not a cheap plastic import. This tool is proudly made in the USA of hard-anodized aluminum with a steel key and pilot.

LD200 Gear Change Tool..... Part No. 1416-009..... \$138.99
 For Hewland LD200 only. Sorry, this tool **will not work** on Mk-Series gearboxes!

Mk 9 Stud Kits



Left: Rear Stud Kit, Part No. 1413-2

Below: Side Plate Stud Kit Part No. 1416-010



If you seem to strip threads every time you change gears, or if you have a side plate leak that just won't go away, you may need new studs or new nuts — or both! These complete kits include all of the studs, washers, and nuts needed to mount both the rear cover and bearing carrier or one side plate at a significant savings compared to individual prices. The **Rear Stud Kits** include 8mm hardware for mounting the bearing carrier and 1/4 inch hardware for the rear cover. The **Side Plate Stud Kit** includes enough 8mm hardware to mount one side plate.

Rear Stud Kit with 5 long and 4 short carrier studsPart No. 1413-1 \$74.99
Rear Stud Kit with 9 short carrier studsPart No. 1413-2 \$70.99

Note: Most older Mk 9 bearing carriers use 5 long studs and 4 short studs, but some late model Mk 9 carriers now take all short studs. Please check your carrier before ordering.

Side Plate Stud Kit for one sidePart No. 1416-010..... \$50.99
 Includes 4 studs, 4 nylon locking nuts, and 4 washers.

Perma-Coil Thread Inserts for Gearbox Studs

Save yourself a ton of hassle down the road. Before you install a single stud in your gearbox, install **Perma-Coil Thread Repair Inserts** in every threaded hole to stop stripped threads before they start. These stainless steel insert coils protect soft aluminum and magnesium castings from pulled studs and stripped threads. Fully interchangeable with Heli-Coil® inserts and tooling. Each kit includes a special tap, installation tool, and a pack of inserts. The list below covers only the sizes found on Hewland and Webster Mk-series gearboxes. We stock many more sizes in both SAE and metric. Please see our website.



Perma-Coil Kit	Part No.	Price
8x1.25mm Kit with 12 inserts	3870-8x1.25	\$38.99
For bearing carrier and side plate studs on Mk-series and LD200 gearboxes.		
1/4-20 Kit with 12 inserts	3865-0250-20	\$31.99
For rear cover studs on Mk-series gearboxes.		
6x1.0mm Kit with 12 inserts	3870-6x1.0	\$40.99
For rear cover studs on LD200 gearboxes.		
7/16-14 Kit with 6 inserts	3865-0437-14	\$33.99
For gearbox adapter studs on Mk-series gearbox adapters.		
10x1.5mm Kit with 12 inserts	3870-10x1.5	\$44.99
For main case front studs on LD200 gearboxes.		

See page 153 for Red Line gear lube • See page 157 for Hylomar and Loctite® gearbox sealants