



## Service Information

December 2006

### Unable to select reverse and / or crawler gear

Problem :

**Reverse & crawler gear difficult or impossible to engage.**

Cause :

**Wear and / or poor adjustment of gearshift linkage.**

Theory :

Gearshift adjustment on 5 speed haflingers is critical due to the fine tolerances involved. As the gearshift lever is moved from side to side it in turn twists the linkage rod clockwise or counter clockwise. This moves a lever within the selector housing which raises or lowers the selector shaft to engage with the respective selector finger. On 4 speed haflingers there is sufficient space between the selector fingers to allow a greater tolerance on the position of the selector shaft, but with the addition of the crawler gear and respective additional selector (which is placed between the existing reverse & 2<sup>nd</sup> / 3<sup>rd</sup> selectors) there is a much reduced tolerance available.

Remedy :

Firstly, ensure that there is little or no wear in the linkage at the following points -

- Gear lever to gearshift rod connection (small bush & shims)
- Gearshift rod to selector shaft connection (universal joint within selector housing)

If the above points are satisfactory then adjustment may be carried out as follows – note, a very small amount of adjustment may be all it needs, particularly on 5 speed boxes !

- Locate the bolted flange on the shift rod, just forward of the selector turret.
- This flange is the adjustment point – the holes in the flange are larger than the bolts and the assembly is centered in a spigot to keep it in line
- Mark across the flanges first with a hacksaw, then slacken the bolts and twist the flanges until the marks are just staggered.
- Retighten & try the gearshift – if not satisfactory repeat the process

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