

Clutch and Gearbox Troubleshooting

clutch - slips

- adjustment
- not enough play in the clutch cable
- friction plates worn or oil soaked
- friction plates warped
- weak or damaged pressure plate springs
- springs not evenly tensioned
- pressure plate not aligned
- synthetic oil .. recommended is dino juice

clutch - drags

- adjustment
- oil too heavy or dirty
- pressure plates warped
- gummed pressure plates
- springs not evenly tensioned
- worm gear cracked
- ball bearing missing
- cable binding
- washers missing from clutch assembly

clutch - noisy

- worn hub bearing
- basket tongues and/or hub splines worn
- primary gear springs broken
- clutch or main -shaft splines worn
- worn or damaged primary gear

[clutch reading](#) and [here](#)

gearbox - grinds when shifting, shifting is difficult

- clutch adjustment
- oil too heavy
- bent, damaged or worn shift- forks, pins, drum, lever, arm, spring
- counter or main -shaft bent or bearings are worn
- worn or damaged gear dogs and receivers
- shift drum stopper spring broken

gearbox - noisy

- oil low, dirty, too thin
- worn gears - backlash
- transmission shaft bearings worn

shift lever doesn't return

- shift shaft bent
- return spring broken or weak

wont shift

- clutch drag
- shift forks bent
- shift return spring broken
- shift shaft bent or circlip lost

jumps out of gear

- shift drum stopper spring broken
- shift lever adjustment
- gear dogs and receivers worn
- shift forks worn or bent
- shift drum worn
- bent or damaged shift shaft or shift shaft arm
- counter or main -shaft splines worn
- gear teeth worn or broken