

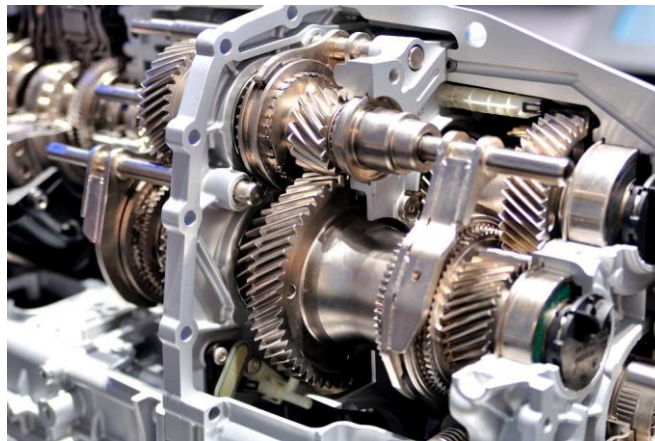


MAINTENANCE AND SERVICING OF GEARBOX



Gearboxes are an essential part of so many pieces of machinery. If you want to keep your gearbox functioning at its optimal performance, then regular maintenance should be done. The best way to maintain your gearbox is to check it regularly to determine potential failures and fix them before they happen. This will keep you from those surprise breakdowns at the most inconvenient times. To keep your gearbox functioning at it best and for a longer time, here are some key maintenance tips to consider.

- Drain gearbox fluid
- Inspect the fluid for evidence of sludge
- Fill the gearbox to the recommended level with new fluid of the correct type and viscosity.
- Inspect fit of plug and drain plug
- Check for leaks and wear on seals
- Check shift lever bushes
- Check clutch operation
- Test to check working of serviced gearbox.



GEARBOX REPAIRS AND INSPECTION

S.No	Complaints	Possible Cause	Check (or) correction
1	Hard shifting into gear	<ul style="list-style-type: none">• Gear shift linkage out of Adjustment• Gear shift lacks lubricants• Excessive clutch free pedal play	<ul style="list-style-type: none">• Adjust• Lubricant• Adjust



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2	Transmission sticks in gear	<ul style="list-style-type: none"> ✚ Gear shift linkage out of Adjustment ✚ Gear shift lacks Lubrication ✚ Synchronizing unit stuck 	<ul style="list-style-type: none"> ✚ Replace ✚ Replace ✚ Adjust and lubricate
3	No power through transmission	<ul style="list-style-type: none"> ✚ Clutch slipping ✚ Gear broken ✚ Misalignment of transmission with engine 	<ul style="list-style-type: none"> ✚ Adjust ✚ Replace ✚ Realign
4	Transmission noisy in neutral	<ul style="list-style-type: none"> ✚ Gears worn or teeth broken 	<ul style="list-style-type: none"> ✚ Replace gears
		<ul style="list-style-type: none"> ✚ Bearings worn away ✚ Transmission misalignment with engine 	<ul style="list-style-type: none"> ✚ Replace and lubricate ✚ Realign
5	Transmission noisy in gear	<ul style="list-style-type: none"> ✚ Insufficient lubrication ✚ Gears loose on main shaft ✚ Synchronisers worn 	<ul style="list-style-type: none"> ✚ Properly lubricate with correct lube ✚ Replace worn parts ✚ Replace worn parts
6	Gear clash while shifting	<ul style="list-style-type: none"> ✚ Synchronisers defective ✚ Incorrect lubricant ✚ Idle speed excessive ✚ Incorrect free-pedal play 	<ul style="list-style-type: none"> ✚ Repair or replace ✚ Replace with correct Lubricant ✚ Readjust ✚ Adjust
7	Transmission noisy in reverse	<ul style="list-style-type: none"> ✚ Reverse idler gear damaged ✚ Shift mechanism damaged 	<ul style="list-style-type: none"> ✚ Replace ✚ Repair, Replace, readjust defective parts
8	Oil leaks	<ul style="list-style-type: none"> ✚ Foaming due to incorrect lubrication ✚ Oil level too high ✚ Oil seals damaged ✚ Drain plug loose 	<ul style="list-style-type: none"> ✚ Replace with correct lubricant ✚ Use proper amount, not more ✚ Replace ✚ Tighten the plug