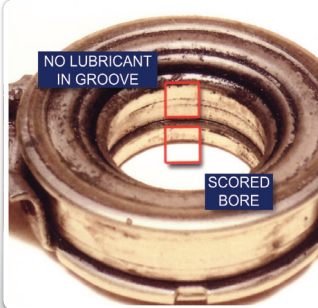


FAULT DIAGNOSIS CHART

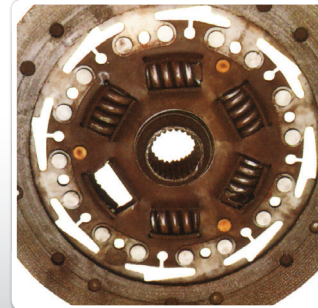


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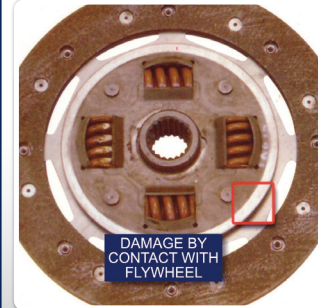
RELEASE BEARING NOT LUBRICATED

CAUSE	No lubricant applied to grease recess on installation
EFFECT	Jerky clutch operation and heavy pedal
REMEDY	If bearing bore is scored then renew the bearing, filling grease groove with good quality high melting point grease prior to fitting. If necessary renew the bearing guide tube



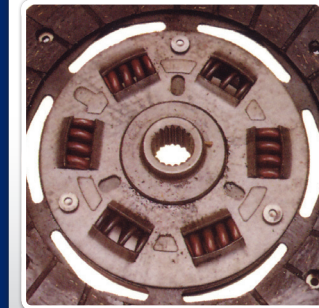
BROKEN DAMPER SPRINGS AND WORN CENTRE

CAUSE	Misalignment of engine to gearbox
EFFECT	Noise and vibration leading to total failure
REMEDY	As 'broken segment necks' below, but specially check for correct position and condition of gearbox dowels and dowel holes



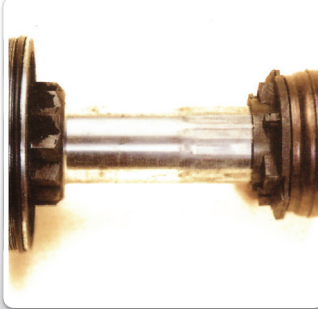
DAMAGED DRIVEN PLATE

CAUSE	Driven plate fitted wrong way round
EFFECT	Clutch inoperative
REMEDY	Replace driven plate assembly and check cover assembly for damage, renew if necessary



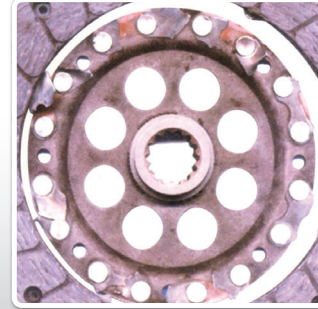
OIL CONTAMINATED DRIVEN PLATE

CAUSE	Oil leak from gearbox main shaft seal or from engine main bearing seal
EFFECT	Progressing through clutch drag, judder and finally slip
REMEDY	Eliminate oil leak and renew clutch components



WORN BEARING GUIDE TUBE

CAUSE	Long service life or incorrect lubrication during installation
EFFECT	Jerky clutch operation, heavy pedal action
REMEDY	Replace worn part and lubricate lightly with approved grease



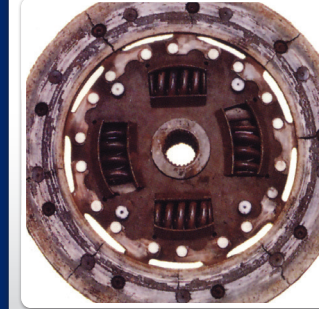
BROKEN SEGMENT NECKS

CAUSE	Angular misalignment of engine and gearbox
EFFECT	Loss of drive
REMEDY	Correct the misalignment which may be due to bent engine back plate, burrs or debris trapped between mating faces, cracked bell housing; worn pilot or gear box bearings; incorrect or missing dowels



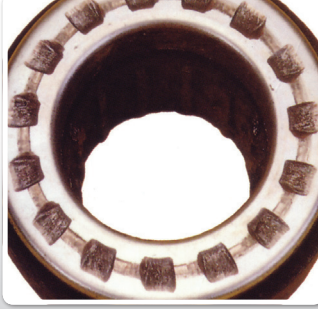
DAMAGED SPLINE

CAUSE	Failure to correctly align spine with driven plate during gearbox installation
EFFECT	Clutch drag
REMEDY	Replace driven plate and take care during gearbox installation



OVERHEATED, CRACKED FACINGS

CAUSE	Prolonged slipping of the clutch
EFFECT	Clutch drag followed by loss of drive
REMEDY	Rectify cause of clutch slip and then replace all necessary clutch components. Check flywheel for damage



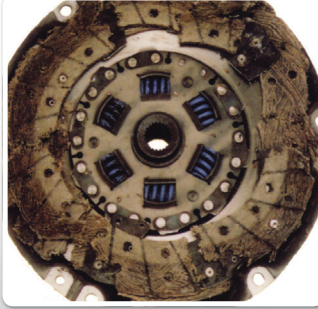
WORN RELEASE BEARING THRUST FACE

CAUSE	Excessive misalignment of release bearing
EFFECT	Noisy and jerky clutch pedal action
REMEDY	Correct the cause of the misalignment and renew bearing



INCORRECT SPLINE GREASE USED

CAUSE	Use of non-recommended lubricant on splines
EFFECT	Clutch drag due to dirt contamination of spline
REMEDY	Thoroughly clean 1st motion gearbox input shaft and apply a smear of approved grease. Renew driven plateA



BURST DRIVEN PLATE

CAUSE	Excessive rotational speed caused by incorrect gear selection
EFFECT	Total clutch failure
REMEDY	Renew all clutch components and check for consequential damage to other components



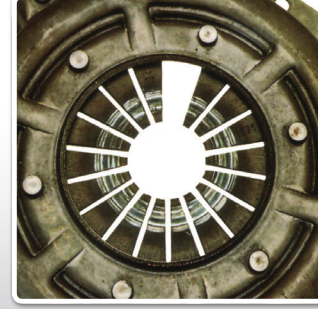
WORN AWAY HUB SPLINES

CAUSE	Bent first motion shaft or worn gearbox bearings
EFFECT	Loss of drive
REMEDY	Correct the gearbox fault and replace the driven plate



BENT DRIVE STRAP

CAUSE	Overtravel of the bearing, allowing a spring finger to contact the drive plate
EFFECT	Clutch drag
REMEDY	Renew cover assembly using the correct retainer clips and correct clutch compressing tool



BROKEN SPRING FINGERS

CAUSE	Incorrect location of cover assembly on flywheel
EFFECT	Overtravel of the bearing, allowing a spring finger to contact the drive plate
REMEDY	Ensure release mechanism, including auto adjuster, is working correctly. Properly re-set and replace complete clutch and any other damaged parts



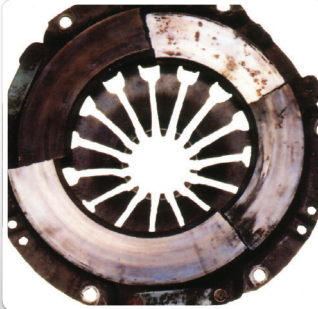
HEAT PATCHED PRESSURE PLATE

CAUSE	Weakened or damaged drive straps
EFFECT	Clutch drag
REMEDY	Renew cover assembly Handle clutch components with care



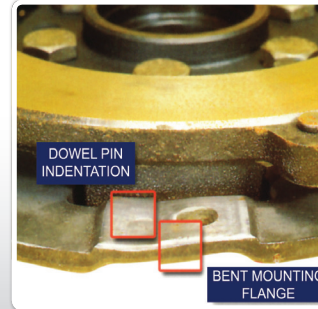
HUNG GEARBOX

CAUSE	Gearbox has not been fully installed and left unsupported
EFFECT	Clutch drag due to the damage within the spline
REMEDY	Replace clutch kit and use a cradle to support the gearbox



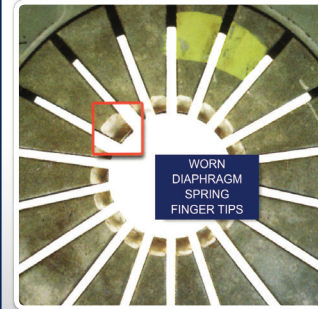
BROKEN PRESSURE PLATE

CAUSE	Overheating due to clutch slip
EFFECT	Total clutch failure
REMEDY	Eliminate the cause of clutch slip and renew all clutch components. Check for consequential damage



DISTORTED COVER MOUNTED FLANGE

CAUSE	Incorrect location of cover assembly on flywheel
EFFECT	Vibration and clutch drag
REMEDY	Check dowels for damage and correctly fit a new cover assembly



WORN DIAPHRAGM SPRING FINGERS

CAUSE	Failure to maintain a contact between bearing and clutch assembly
EFFECT	Jerky clutch engagement
REMEDY	Renew cover assembly, check release mechanism (including self adjustment) for correct operation. Observe correct adjustment frequency and procedure



OIL CONTAMINATED

CAUSE	Clutch fluid has not been maintained & become contaminated
EFFECT	Fluid leakage due to internal seal expansion
REMEDY	Replace CSC & check clutch for contamination. Flush & replace clutch fluid