

RELEASE BEARING NOT LUBRICATED

WORN BEARING

GUIDE TUBE

CAUSE

EFFECT

REMEDY

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

Long service life or incorrect

lubrication during installation

Jerky clutch operation, heavy

Replace worn part and lubricate

lightly with approved gease



BROKEN DAMPER SPRINGS AND WORN CENTRE CAUSE Misalignment of engine

to gearbox

EFFECT Noise and vibration leading to total failure REMEDY

BROKEN SEGMENT

and gearbox

Loss of drive

NECKS

CAUSE

EFFECT

REMEDY

As 'broken segment necks' below, but specially check for correct position and condition of gearbox dowels and dowel holes

Angular misalignment of engine

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

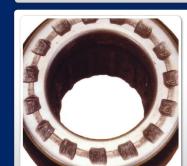


DAMAGED DRIVEN PLATE

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



DAMAGED SPLINE CAUSE installation EFFECT Clutch drag



WORN RELEASE BEARING THRUST FACE

CAUSE Excessive misalignment of release bearing

pedal action

EFFECT Noisy and jerky clutch pedal action

REMEDY Correct the cause of the misalignment and renew bearing



BURST DRIVEN PLATE

EFFECT

CAUSE Excessive rotational speed caused by incorrect gear selection

Total clutch failure

REMEDY Renew all clutch components and check for consequential damage to other components





EFFECT Clutch drag

Overtravel of the bearing, CAUSE allowing a spring finger to contact the drive plate

Renew cover assembly using the correct retainer clips and correct



REMEDY clutch compressing tool

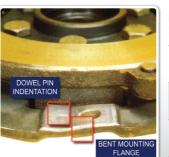
BROKEN PRESSURE

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





BROKEN SPRING FINGERS

Incorrect location of cover CAUSE 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

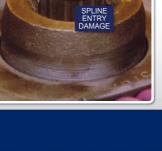


Incorrect location of cover CAUSE assembly on flywheel

EFFECT Vibration and clutch drag

REMEDY Check dowels for damage and correctly fit a new

cover assembly





FAULT DIAGNOSIS CHART













Renew cover assembly, check release mechanism (including self adjustment) for correct operation. Observe correct adjustment frequency and procedure



OIL CONTAMINATED DRIVEN PLATE

CAUSE	Oil leak drom 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



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



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



WORN AWAY **HUB SPLINES**

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



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



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