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Coding Information

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Title: Hydraulic Clutch Adjustment for ProStar + Vehicles

Applies To: ProStar + Vehicles with Hydraulic Clutch

DESCRIPTION

This article describes the procedures for :Internal and External Hydraulic Clutch Adjustment

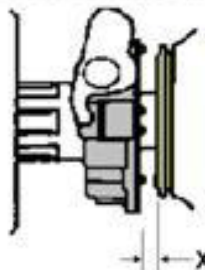
SYMPTOMS

- Engine will not start
- Transmission grinds going into gear
- Excessive clutch pedal free travel
- No clutch pedal free travel

CRITICAL CLUTCH DIMENSIONS

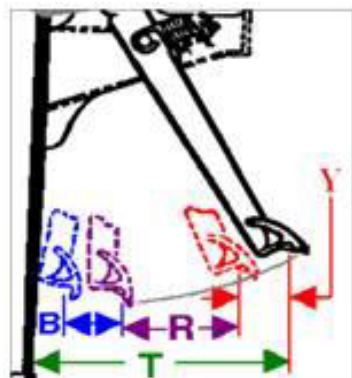
Clutch Release Bearing Measurement:

X = Clutch Release Travel



1. X, Clutch Release Bearing Travel:
 - Distance of gap between release bearing (clutch engaged position) & clutch brake.
 - Desired measurement = 0.53 inches
 - Tolerance Range = 0.49 to 0.56 inches.
2. How to Measure:
 - Ensure clutch pedal is fully released (clutch is fully engaged).
 - Use appropriate tools to determine gap distance.

Clutch Pedal Measurement:



1. Y, Clutch Pedal Free Play:
 - Distance the clutch pedal travels from the top position (pedal fully released and clutch fully engaged) until the master cylinder push rod contacts the master cylinder piston.
 - Desired distance = .5 inches.
 - Tolerance Range = 0.4 to 0.6 inches.
2. Reference Dimensions:
 - R = Release Pedal Travel
 - B = Brake Squeeze Travel (at pedal)
 - T = Total Clutch Pedal Travel

How to Measure Clutch Free Play:

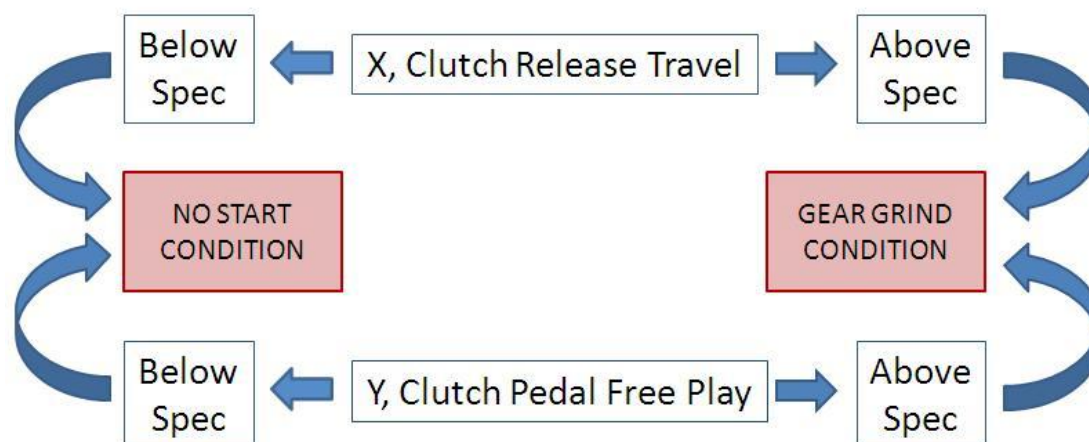


1. Measuring Clutch Pedal Free Play:

- Choose a common reference point on the clutch pedal to measure from.
- Choose a common reference point in the cab to measure to.
- With clutch pedal fully released (clutch fully engaged), take first measurement.
- Apply hand force on pedal until free play is taken up. Take second measurement.
- Record the differences of the two measurements

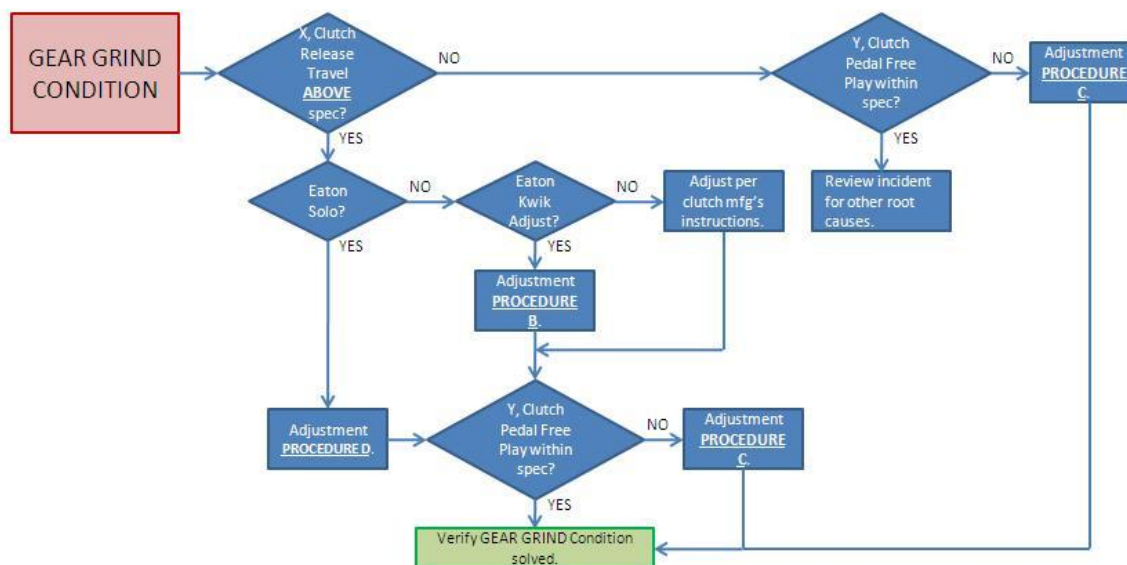
FAILURE MODES OF INCORRECT CLUTCH ADJUSTMENT

Reasons For Gear Grind and No Start Conditions



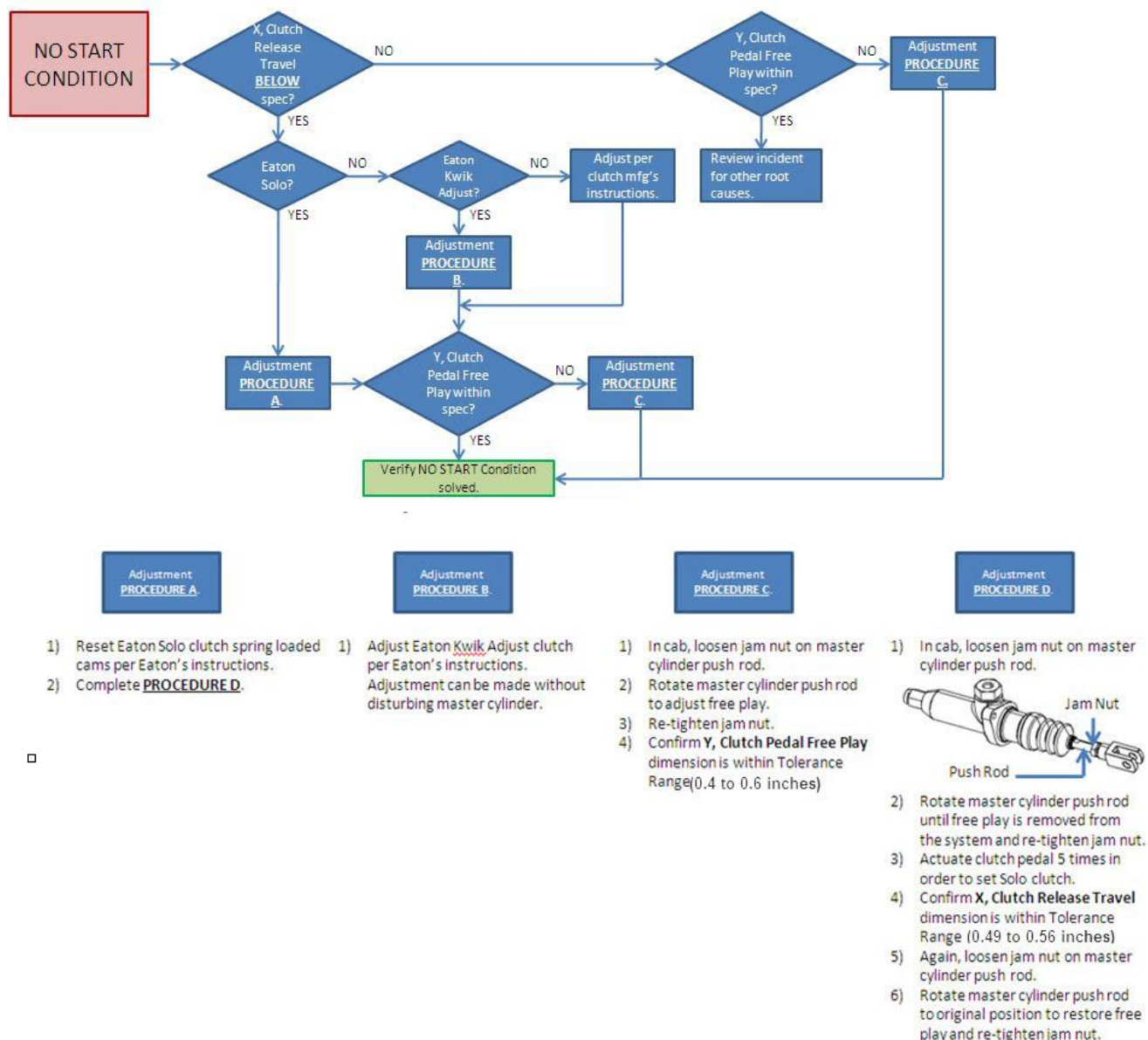
NO START CORRECTION PROCEDURE

Gear Grind Correction Procedure



INTERNAL AND EXTERNAL CLUTCH ADJUSTMENT PROCEDURES

No Start Correction Procedure



GEAR GRIND CORRECTION PROCEDURE

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