



**Honda/Sterling/Acura
Recommended Master Kit Upgrade**
(Replace Belleville Spring with Alto Wave Spring)

ALTO PART #058767-116 (Fits 116mm)
OR
ALTO PART #078767 (Fits 120mm)

Reference

116mm	FA	PF4	PK4	PY8	PL5-X	MY8A	K4
	MPLA	RO	MPWA	MR9A	MP7A	M1WA	MP5A
120MM	APX4	PX4B	MPOA	MP1A	MPX4	MPJA	AOYA
	A6VA	M7ZA	MPZA				

Failure Alert / Warning

Honda OEM design in crucial clutch pack tolerances incorporate a Belleville cushion spring with inherent interference fit characteristics. This mating surface incompatibility gouges the bottom steel plate as much as .013" (.33mm), and the piston land .002" (.05mm) to .008" (.20mm).

Early Warning Signs

Intermittent shift patterns may develop due to metal accumulation in the governor as well as in the apply piston reed (check) valve. Customer complaints range from harsh shifts, late and delayed shifts and most often 2nd gear "slam" develops after momentary "flat spot".

Clutch Pack Specification Guidelines

OEM tolerances (typical) determined by dial indicator from clutch end plate to top disc: Low: .026" (.66mm) to .033" (.83mm). This allows .077" (1.77mm) tolerance. 2nd: .020" (.50mm) to .028" (.71mm) is the most common shift complaint and has .008" (.20mm) tolerance. 3rd and 4th: .016" (.24mm) to .024" (.60mm). These clutch packs both have the least engagement ravel and allow .088" (.20mm) tolerance.

Apply Piston Examination

Replacement of the apply piston may not be required. Metal erosion is usually limited to land area and may be as little as .002" to .003". Wear exceeding .008", showing heat discoloration, or stress fractures will require piston replacement.

Wave Spring Installation

The wave spring is a direct replacement part with no machining required. Install the spring into the apply piston land area. Install new friction and steel plates. Set clutch pack dimensional height to proper tolerances in each pack.



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Selective Steel Plate Guidelines

To insure proper height dimensions, selective steel plates may be required. These plates are available and matched to the dimensional wave spring requirements. See table below.

<u>Application</u>	<u>Alto #</u>	<u>Reference</u>	<u>Over / Under Size</u>
Honda	058701-210	105mm	plus 0.1mm
Honda	058701A	105mm	minus 0.2mm
Honda	058711-210	110mm	plus 0.1mm
Honda	058711A	110mm	minus 0.2mm
Honda	058721-210	116mm	plus 0.1mm
Honda	058721A	116mm	minus 0.2mm
Honda	078701-210	120mm	plus 0.1mm
Honda	078701A	120mm	minus 0.2mm