



C1 Clutch PowerPack®

ALTO PART # 152755B, 1999-09

POWERPACK® CONTENTS:

- (8) 152700D170 (.067") G3 1-Sided Internal Spline Friction Plates
- (8) 152701D170 (.067") G3 1-Sided External Spline Friction Plates
- (1) 152761P115 (.450") Top Pressure Plate
- (1) 152766 (.103") Bottom Apply Plate
- (1) 152701-218 (.086") Bottom Apply Plate

ALTO PART # 152755C, 2010-On

POWERPACK® CONTENTS:

- (8) 152700D170 (.067") G3 1-Sided Internal Spline Friction Plates
- (8) 152701D170 (.067") G3 1-Sided External Spline Friction Plates
- (1) 152761V254 (.400") Top Pressure Plate
- (1) 152766 (.103") Bottom Apply Plate

C2 Clutch PowerPack®

ALTO PART # 152756B, 1999-On

POWERPACK® CONTENTS:

- (7) 152702B185 (.073") G3 Friction Plates
- (8) 152703-218 (.086") Steel Separator Plates

C3 Clutch PowerPack®

ALTO PART # 152757B, 1999-On

POWERPACK® CONTENTS:

- (6) 152704A216 (.085") G3 Friction Plates
- (3) 152705A218PS (.086") Performance Steel Separator Plates
- (3) 152705A250PS (.097") Performance Steel Separator Plates
- (1) 152705D218PS (.086") Performance Steel Grooved Apply plate
- (1) 152763B (.4725") C3 Top Pressure Plate
- (1) 152764-250 (.102") P1 Ring Gear Thrust Element Spacer
- (1) 152303A C3/C4 Apply Piston
- (1) 152309X C3/C4 Piston Return Spring Assembly

C4 Clutch PowerPack®

ALTO PART # 152758B, 1999-On

POWERPACK® CONTENTS:

- (6) 152704A216 (.085") G3 Friction Plates
- (5) 152705A218PS (.086") Performance Steel Separator Plates
- (1) 152705D218PS (.086") Performance Grooved Apply plate
- (1) 152705A250PS (.097") Performance Steel Separator Plate
- (1) 152303A C3/C4 Apply Piston
- (1) 152309X C3/C4 Piston Return Spring Assembly

C5 Clutch PowerPack®

ALTO PART # 152759B, 1999-On

POWERPACK® CONTENTS:

- (8) 152706A180 (.071" / 1.80mm, 115 Teeth) G3 ®Friction Plates
- (8) 152707-200PS (.078" / 1.98mm) Performance Steel Plates



C1 Clutch PowerPack®

POWERPACK® 152755B, 1999-2009 INSTALLATION

Install the apply plate 152766 (.103") against the apply piston. Install externally splined friction with the friction lining facing down (away from you). Alternate installation of internally splined plates and externally splined plates ending with an internally splined plate. (8 external & 8 internally splined plates) **(Failure to install plates correctly will result in catastrophic failure; steel sides of friction plates must never make contact with each other)**. Install top pressure plate 152761P115 and snap ring. **(Do not install spiral ring at this time)**. Check clutch pack clearance should measure .075" (1.90mm) to .085" (2.15mm). If clearance is incorrect, pressure plates are available from Allison. When correct C1 clutch pack clearance is achieved, install spiral ring.

C1 Clutch PowerPack®

POWERPACK® 152755C, 2010 - on INSTALLATION

Install the apply plate 152766 (.103") against the apply piston. Install externally splined friction with the friction lining facing down (away from you). Alternate installation of internally splined plates and externally splined plates ending with an internally splined plate. (8 external & 8 internally splined plates) **(Failure to install plates correctly will result in catastrophic failure; steel sides of friction plates must never make contact with each other)**. Install top pressure plate 152761V354 and snap ring. **(Do not install spiral ring at this time)**. Check clutch pack clearance should measure .085" (2.15mm) to .095" (2.41mm). If clearance is incorrect, pressure plates are available from Allison. When correct C1 clutch pack clearance is achieved, install spiral ring.

C2 Clutch PowerPack®

POWERPACK® 152756B, 1999 - on INSTALLATION

Use the same method as OE to stack the C2 clutch pack. Install an .086" steel plate against the apply piston, alternate installation of friction and steel plates ending with a steel plate. (7 frictions & 8 steels) Clutch pack clearance should be from .070" to .080".

C3 Clutch PowerPack®

POWERPACK® 152757B, 1999 - on INSTALLATION

Place the 152764-250 spacer between the P1 ring gear thrust washer and the P2 ring rear when building the rear unit of the transmission. This moves the ring gear hub into position to accept the PowerPack® friction plates. Install 152303A piston and 152309X return spring, make sure vent hole is located at 12 o'clock. Install the grooved apply plate with the grooves toward the apply piston, alternate 152704A216 friction plates and 152705A250PS and 152705A218PS Performance steel plates ending with a friction plate, 6 frictions and 5 steel plates. There is one extra 152705A250PS to adjust clutch pack clearance. Install 152763B top pressure plate and OE snap ring. Clearance should be .060"-.075".

C4 Clutch PowerPack®

POWERPACK® 152758B, 1999 - on INSTALLATION

Install 152303A apply piston and 152309X return spring, make sure vent hole is located at 12 o'clock Install the grooved apply plate with the grooves toward the apply piston, alternate installation of friction plates and Performance steel plates ending with a friction plate, 6 frictions and 5 steel plates There is one extra 152705A250PS to adjust clutch pack clearance. Install OE backing plate and OE snap ring. Clearance should be .060"-.075". (Alto has available a .098" selective steel plate 152705A250PS to further adjust clutch pack clearance.)

C5 Clutch PowerPack®

POWERPACK® 152759B, 1999 - on INSTALLATION

Stack-up is the same method as OE. Install the pressure plate then a friction plate, followed by a steel plate and continue until the last plate installed is a steel plate, 8 friction plates & 8 steel plates with a set of calipers, measure from the top of the lugs down to the top steel plate. This measurement, which is not the actual clutch pack clearance, should be .170" to .200" (4.45 to 5.33mm). Finally install the OE return spring assembly.