

#08-07-30-002A: Information on 4T65-E MN7, M15 and M76 Front Wheel Drive Automatic Transmission Valve Body Reconditioning DTCs P0741, P0742, P0757, P0842, Harsh Shifts or Slips - (Mar 12, 2008)

Subject: Information On 4T65-E MN7, M15 and M76 Front Wheel Drive Automatic Transmission Valve Body Reconditioning, DTCs P0741, P0742, P0757, P842, Harsh Shifts or Slips



Models: 2001-2005 Buick LeSabre, Park Avenue
2002-2007 Buick Rendezvous, Rendezvous AWD
2005-2007 Buick Terraza, Terraza EXT, Terraza 4WD
2005-2008 Buick Allure (Canada Only), LaCrosse
2006-2008 Buick Lucerne
2001 Chevrolet Lumina
2001-2005 Chevrolet Venture, Venture EXT, Venture 4WD
2001-2007 Chevrolet Monte Carlo
2001-2008 Chevrolet Impala, Lumina (Export Only)
2005-2008 Chevrolet Uplander, Uplander EXT, Uplander 4WD
2001-2002 Oldsmobile Intrigue
2001-2003 Oldsmobile Silhouette, Silhouette EXT
2004 Oldsmobile Silhouette EXT
2001-2005 Pontiac Montana, Montana EXT
2001-2005 Pontiac Aztek, Aztek AWD, Bonneville
2001-2008 Pontiac Grand Prix
2002-2005 Pontiac Montana 4WD
2005-2006 Pontiac Montana SV6 (AWD)
2005-2008 Pontiac Montana SV6, Montana SV6 EXT
2005-2006 Saturn Relay, Relay AWD
2005-2007 Saturn Relay EXT
with Hydra-Matic® 4T65-E (RPOs - MN7, M15, M76) Automatic Transmission

This bulletin is being updated to include Related Service Document information. Please discard Corporate Bulletin Number 08-07-30-002 (Section 07 -- Transmission/Transaxle).

The following new service information will aid technicians in providing easy to follow valve body reconditioning instructions and new illustrations to simplify reassembly of the valve body.

Related Service Document

Corporate Bulletin Number 02-07-30-013 : Incorrect Transmission Shifts, Poor Engine Performance, Harsh 1-2 Upshifts, Slips 1st and Reverse, Torque Converter Clutch (TCC) Stuck

Off/On, DTCs P0757, P0741, P0742, P0730, P0756.

Important: If valve body cleaning is not required, DO NOT disassemble bores unless it is necessary to verify movement of valves.

Inspection Procedure

1. Using the exploded views in this bulletin, inspect each bore for freedom of valve(s) movement and evidence of debris. Pay particular attention to those valves related to the customer's concern.
2. Verify movement of the valves in their normal installed position. Valves may become restricted during removal or installation. This is normal due to small tolerances between the valves and bores.
3. If a valve is restricted and cannot be corrected by cleaning the valve and bore, replace the valve body. Describe the restricted valve on the repair order.

Notice: Be sure all solenoids are installed with the electrical connectors facing the non-machined (cast) side of the valve body. Otherwise, the solenoids will bind against the transmission case as the valve body bolts are tightened and damage may occur.

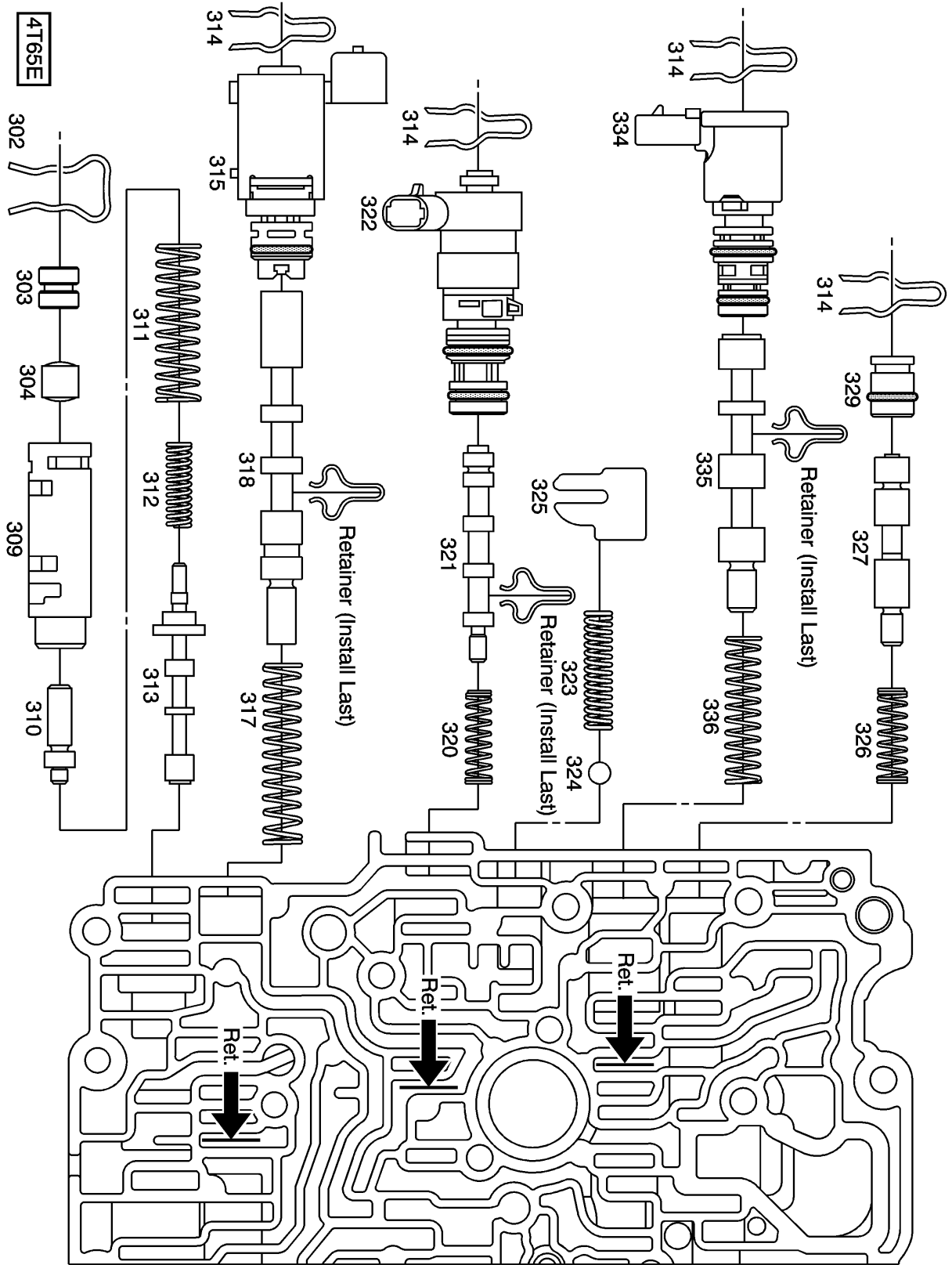
Disassembly/Reassembly

1. If a valve is restricted by a metal burr from machining that bore, remove the valve and burr, then inspect movement in the valve's normal position. If no other debris or restrictions are found, reassemble the valve body and install in the transmission.
2. If the valve body has been contaminated with debris from another transmission component failure, disassemble all bores for complete cleaning of all valve body components. If possible, keep individual bore parts separated for ease of reassembly. Use the following illustrations in this bulletin for a positive identification and location of individual parts:
 - Left Side Control Valve Body Assembly
 - Right Side Control Valve Body Assembly
 - Control Valve Body Assembly Chart, Valve Springs and Bore Plugs

Caution: Use appropriate eye protection when cleaning the valve body to prevent injury.

3. Using GM Brake Clean, or equivalent, in a safe and clean environment (clean aluminum pan) clean the valve body and dry it with compressed air.
4. Clean individual valve body components with GM Brake Clean, or equivalent. Coat each valve with clean ATF and reassemble in each bore. Check each valve for free movement during assembly of each bore.

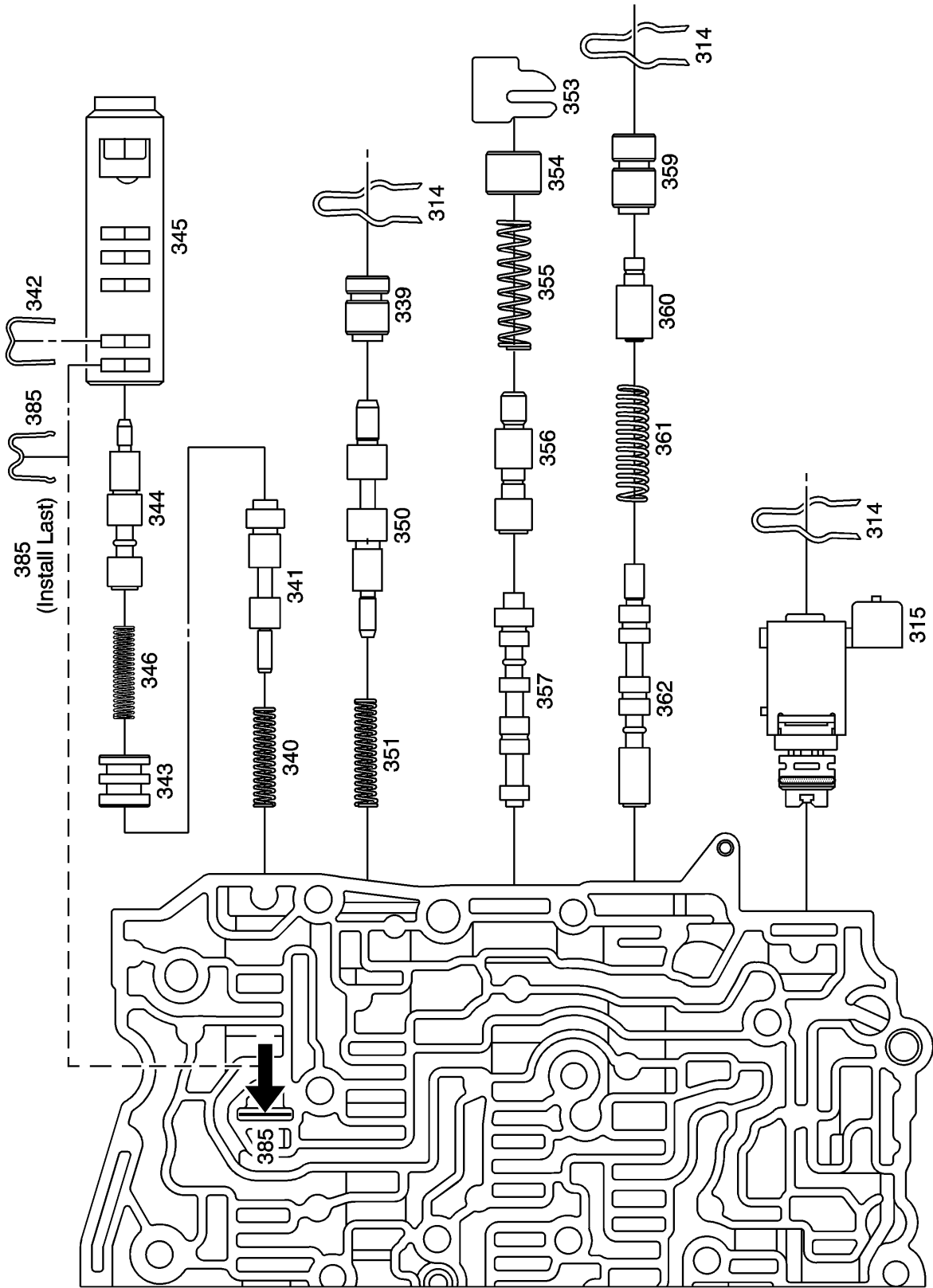
Left Side Control Valve Body Assembly



Call Out Number	Description
301	Control Valve Body (Machined)
302	Line Boost Valve And Bushing Retainer
303	Line Boost Valve Bore Plug
304	Line Boost Valve
309	Reverse Boost Valve Bushing

310	Reverse Boost Valve
311	Pressure Regulator Valve Spring Outer
312	Pressure Regulator Valve Inner Spring
313	Pressure Regulator Valve
314	1-2, 3-4 Shift Solenoid Valve Retainer
	Pressure Control Solenoid Valve Retainer
	TCC PWM Solenoid Valve Retainer
	TCC Regulator Apply Valve Bore Plug Retainer
315	1-2, 3-4 Shift Solenoid Assembly
317	1-2 Shift Valve Spring
318	1-2 Shift Valve
320	Torque Signal Regulator Valve Spring
321	Torque Signal Regulator Valve
322	Pressure Control Solenoid Valve Assembly
323	Line Pressure Relief Valve Spring
324	Line Pressure Relief Valve
325	Line Pressure Relief Valve Spring Retainer
326	TCC Regulator Apply Valve Spring
327	TCC Regulator Apply Valve
329	TCC Regulator Apply Valve Bore Plug
334	TCC PWM Solenoid Valve Assembly
335	TCC Control Valve
336	TCC Control Valve Spring

Right Side Control Valve Body Assembly

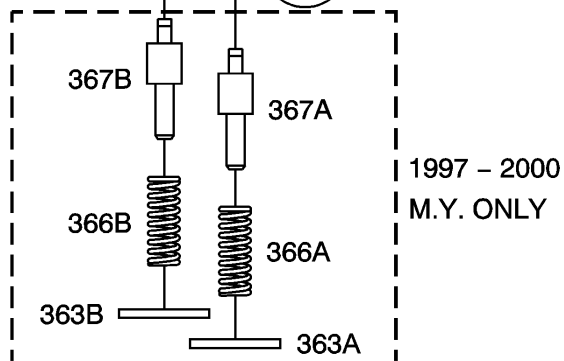
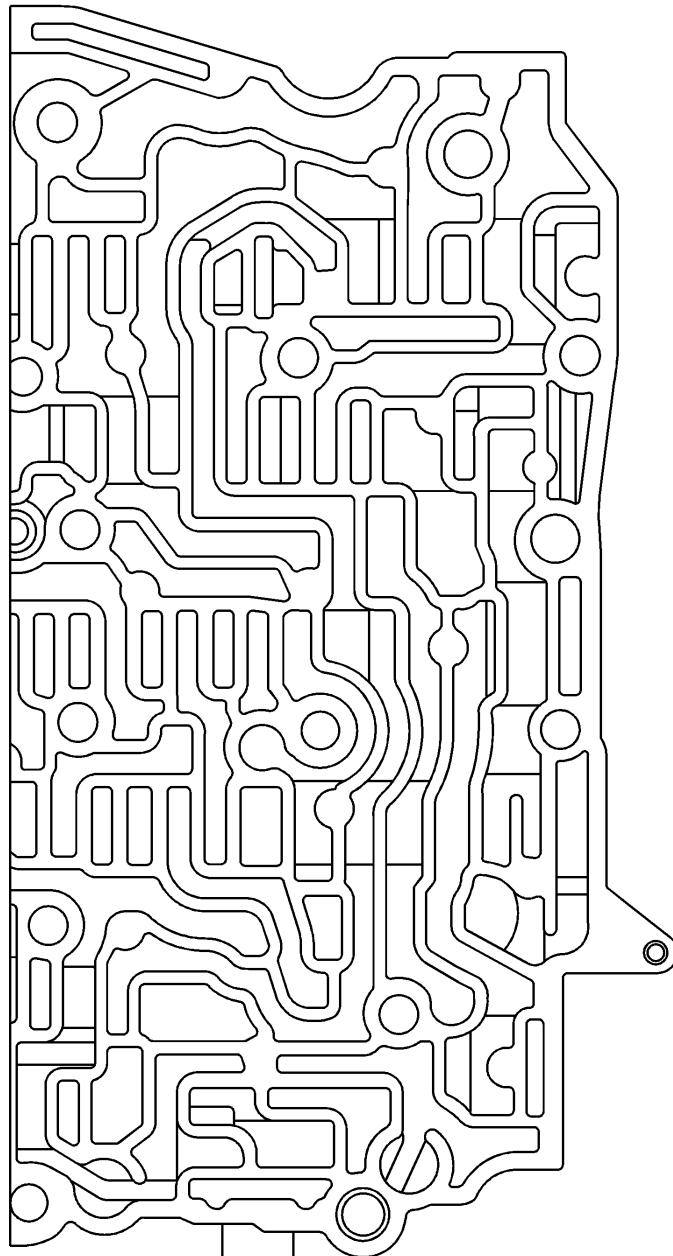


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Call Out Number	Description
301	Control Valve Body (Machined)
314	1-2, 3-4 Accumulator Valve Retainer
	4-3 Manual Downshift Valve Retainer
	2-3 Shift Solenoid Valve Retainer
315	1-2, 3-4 Shift Solenoid Valve Assembly

339	1-2 Accumulator Valve Bore Plug
340	3-4 Accumulator Valve Spring
341	3-4 Accumulator Valve
342	2-3 Accumulator Valve Bushing
343	2-3 Accumulator Valve Bore Plug
344	2-3 Accumulator Valve
345	2-3 Accumulator Valve Bushing
346	2-3 Accumulator Valve Spring
350	1-2 Accumulator Valve
351	1-2 Accumulator Valve Spring
353	3-2 Manual Downshift Valve Retainer
354	3-2 Manual Downshift Valve Bore Plug
355	3-2 Manual Downshift Valve Spring
356	3-2 Manual Downshift Valve
357	2-3 Shift Valve
359	4-3 Manual Downshift Valve Bore Plug
360	4-3 Manual Downshift Valve
361	4-3 Manual Downshift Valve Spring
362	3-4 Shift Valve
363	Reverse Servo Boost Valve Bore Pin
	Forward Servo Boost Valve Bore Pin
366	Reverse Servo Boost Valve Spring
	Forward Servo Boost Valve Spring
367	Reverse Servo Boost Valve
	Forward Servo Boost Valve
385	2-3 Accumulator Valve Retainer

1997-2000 M.Y. Only -- Right Side Control Valve Body Assembly



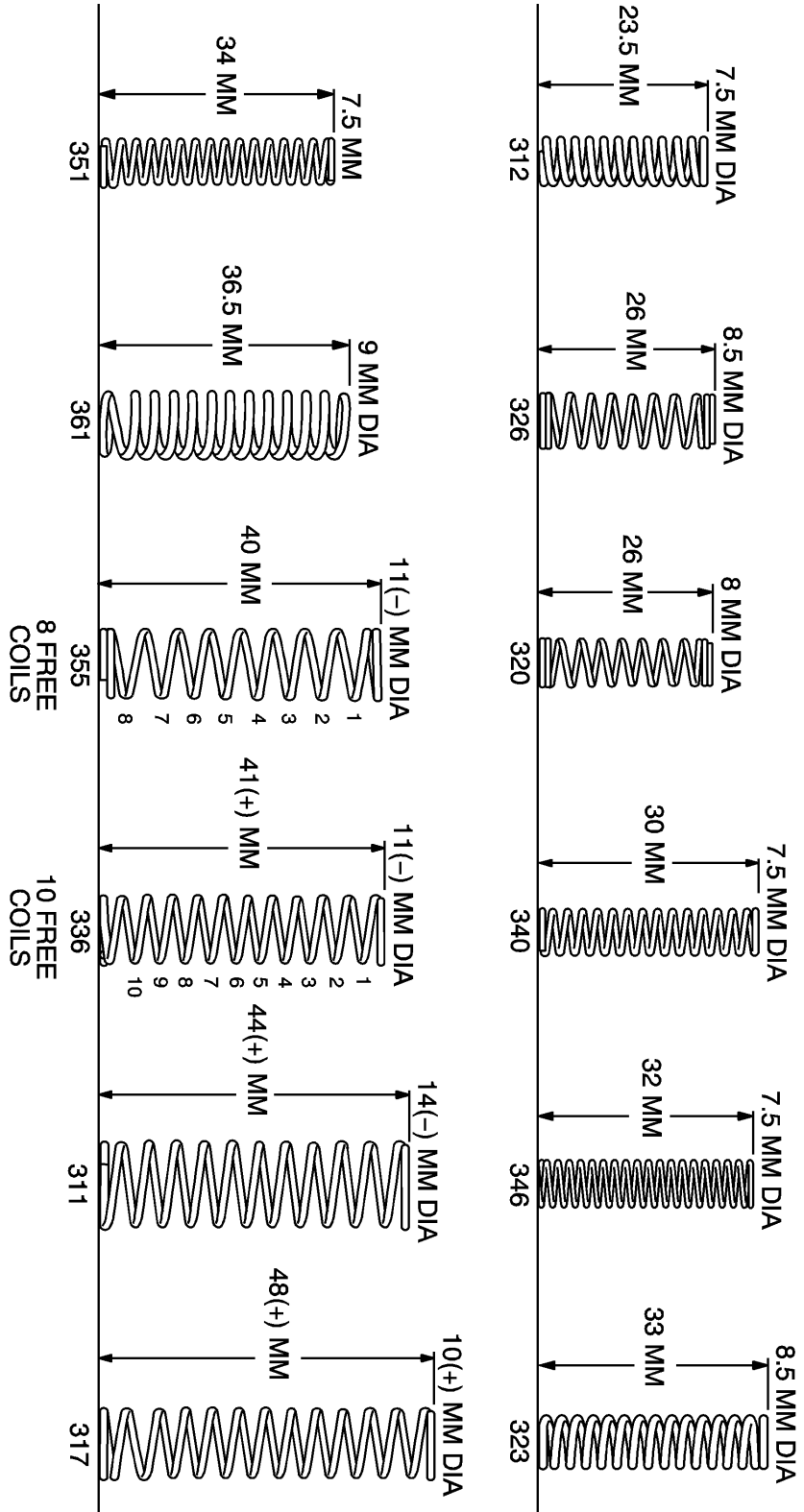
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Call Out Number	Description
363	Reverse Servo Boost Valve Bore Pin
	Forward Servo Boost Valve Bore Pin
366	Reverse Servo Boost Valve Spring
	Forward Servo Boost Valve Spring
367	Reverse Servo Boost Valve

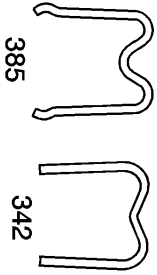
Valve Body Spring and Bore Plug Chart (Metric)

(+) = LESS THAN 1 MM LARGER

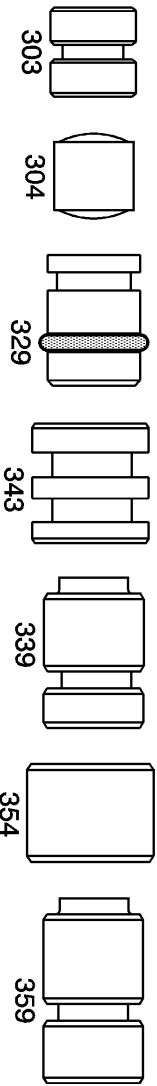
(-) = LESS THAN 1 MM SMALLER



RETAINERS

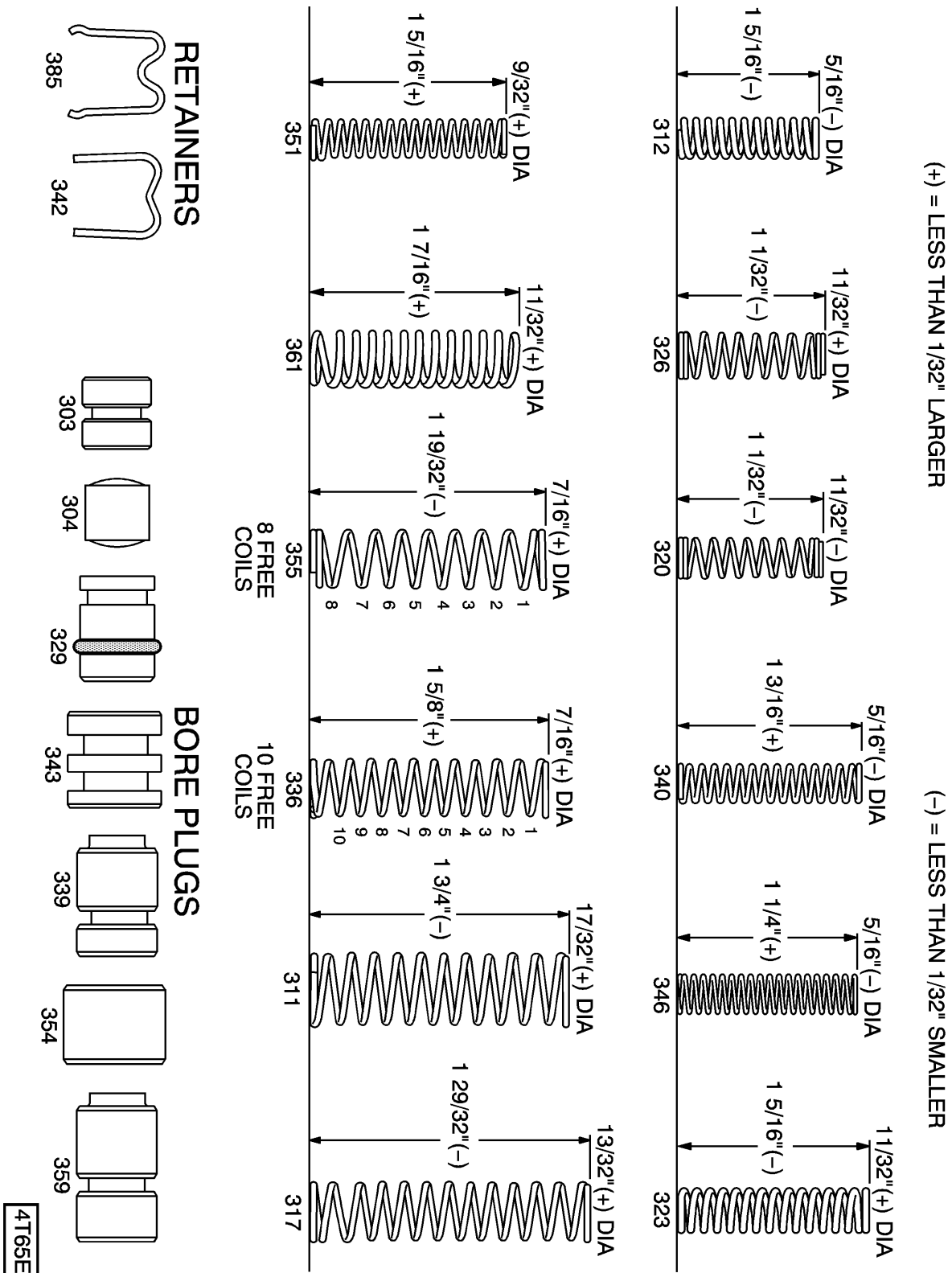


BORE PLUGS



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Valve Body Spring and Bore Plug Chart (Inch)



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