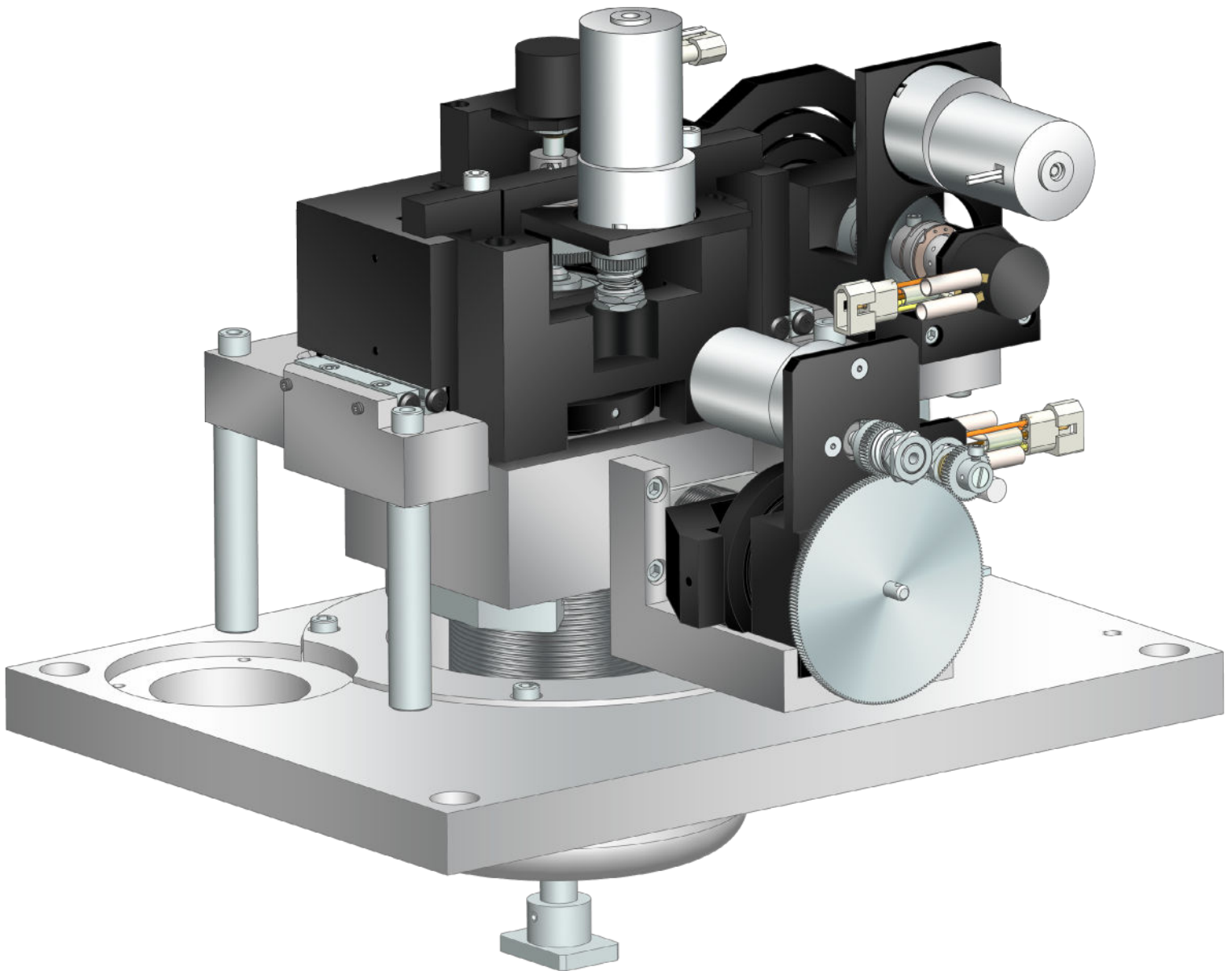




High Serviceability Refurbishment E500 Manipulator

P/N 55340



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The Manipulator Assembly will be disassembled, cleaned and evaluated. A standard refurbishment requires separate purchase of K55340 kit, detailed below, and will replace all hardware, o-rings, gears, drive screws, clutches, slide and roller bearings, bellows and shaft. All hardware is upgraded.

Roll pins are replaced with opposing lock screws. Potentiometers are upgraded with quick connect, high accuracy units. Quick connect terminals replace solder connections to simplify field service. Electrode is aligned and vacuum leak tested, and each drive is load tested for proper operation. Test reports will be provided.

Drive motors (3 per assembly) are not included in the standard refurbishment. Existing motors will be used, unless new units are sent by the customer.

Kit K55340 is detailed below. All items in the kit are also available individually.

K55340 - MANIPULATOR OVERHAUL KIT, ENHANCED

P/N	DESCRIPTION	QTY
55340-6	XY Axis Lead Screw	2
55340-7	Z Axis Lead Screw	1
55340-8	Spur Gear Assembly, Modified	1
55340-9	Spur Gear Assembly, Modified	1
55340-10	Clutch Gear Assembly, Modified, X/Y Axis	2
55340-14	Coupling Clamp Hub, Modified	3
55340-15	Spur Gear Assembly, Modified, 90 Teeth	1
55340-16	Clutch Gear Assembly, Modified, Z Axis	1
55340-18	Bellows Assembly, Large	1
55340-19	Bellows, Manipulator, Small	1
55340-20	Shaft Assembly	1
55340-33	Spur Gear Assembly, Modified, 135 Teeth	1
55340-35	Potentiometer Assembly	3
55340-36	Spacer	3
82059	.240" Ø x .75", SS, Compression Spring	1
82062	.240" Ø x .50", SS, Compression Spring	1
82347	.312" Ø ID, SS, Retaining Ring	3
83303V	-226 Viton, 75A Duro, O-Ring	1
8A067V	-017, Viton, 75A Duro, O-Ring	1
8A224V	-273, Viton, 75A Duro, O-Ring	1
8B198	-247, Viton, 75A Duro, O-Ring	1
8B402	.625" OD x .313" ID, SS, Washer, Flat	3
8B404	10mm ID x 30mm OD, x 9/16" Wide, Ball Bearing, Double Shield	3
8B411	1-3/16" Bore, SS, Retaining Ring, Internal	3
8B412	.317" ID x .625" OD, SS, Belleville Disc Spring	6
8B417	12mm ID x 23mm OD, 32mm Long, Linear Bearing	1
8B418	8mm ID x 15mm OD, 24mm Long, Linear Bearing	1
8B419	9/16" ID x 1" OD, Thrust Bearing, Needle Roller	1
8B420	9/16" ID x 1" OD, Thrust Washer	2
8B422	Crossed Roller Rail Set	2
8B430	18-24 AWG, Ø.062, Gold Plated, Female Crimp Terminal	9
8B470	-234, Viton, 75A Duro, O-Ring	1
8B547	15mm ID, BP Steel, Retaining Ring, Internal	1
8B548	23mm ID, BP Steel, Retaining Ring, Internal	1
8B554	-031, Viton, 75A Duro, O-Ring	1
8B557	Receptacle Housing	3
8B694	30mm OD x 22mm ID x .1mm, SS, Ring Shim	6
8B695	30mm OD x 22mm ID x .2mm, SS, Ring Shim	6
8B696	4-40 x 3/8", Alloy Steel, SHCS	6
8B697	4-40 x 5/8", Alloy Steel, SHCS	2
8B701	14mm OD x 8mm ID x .5mm, Steel, Ring Shim	3