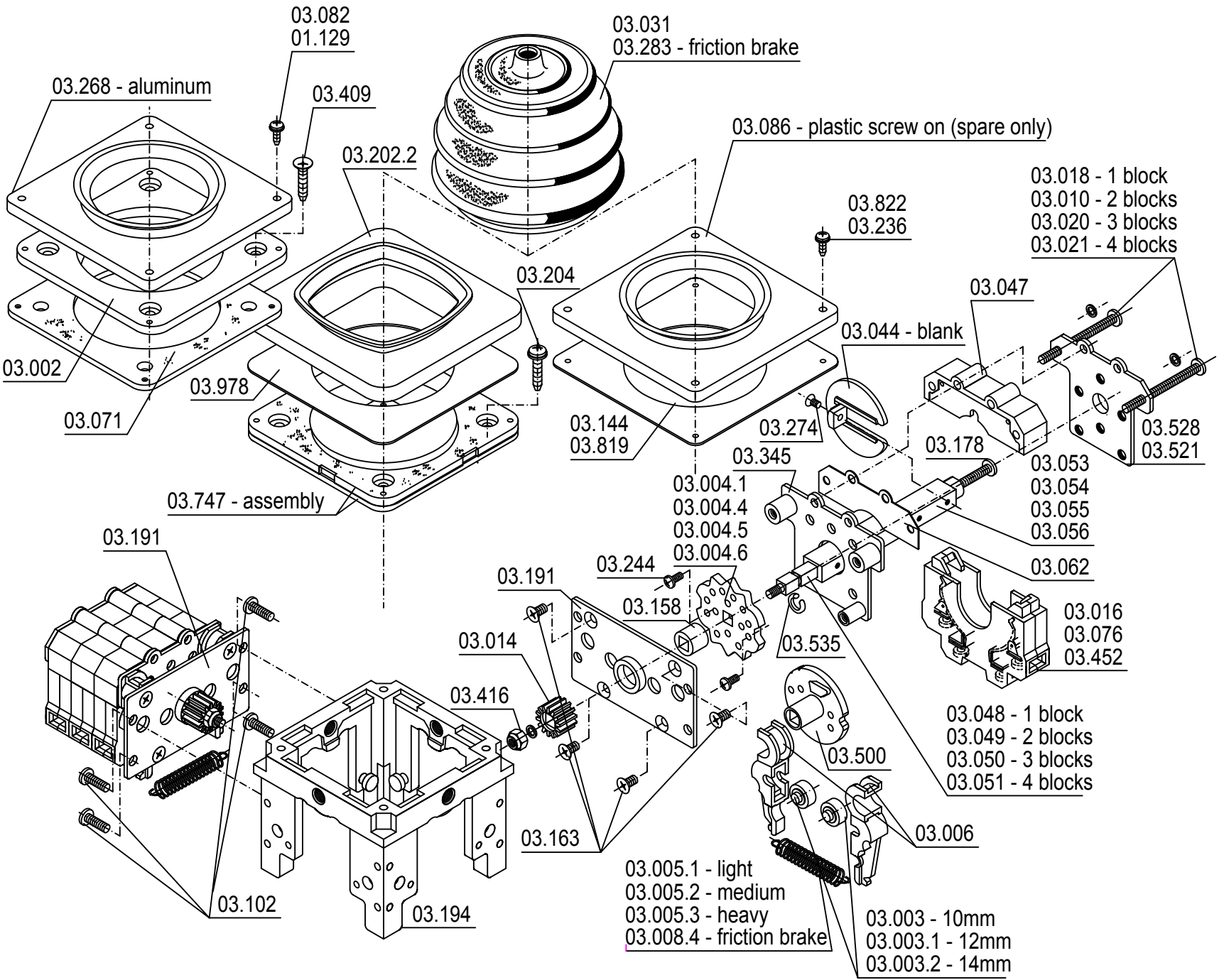
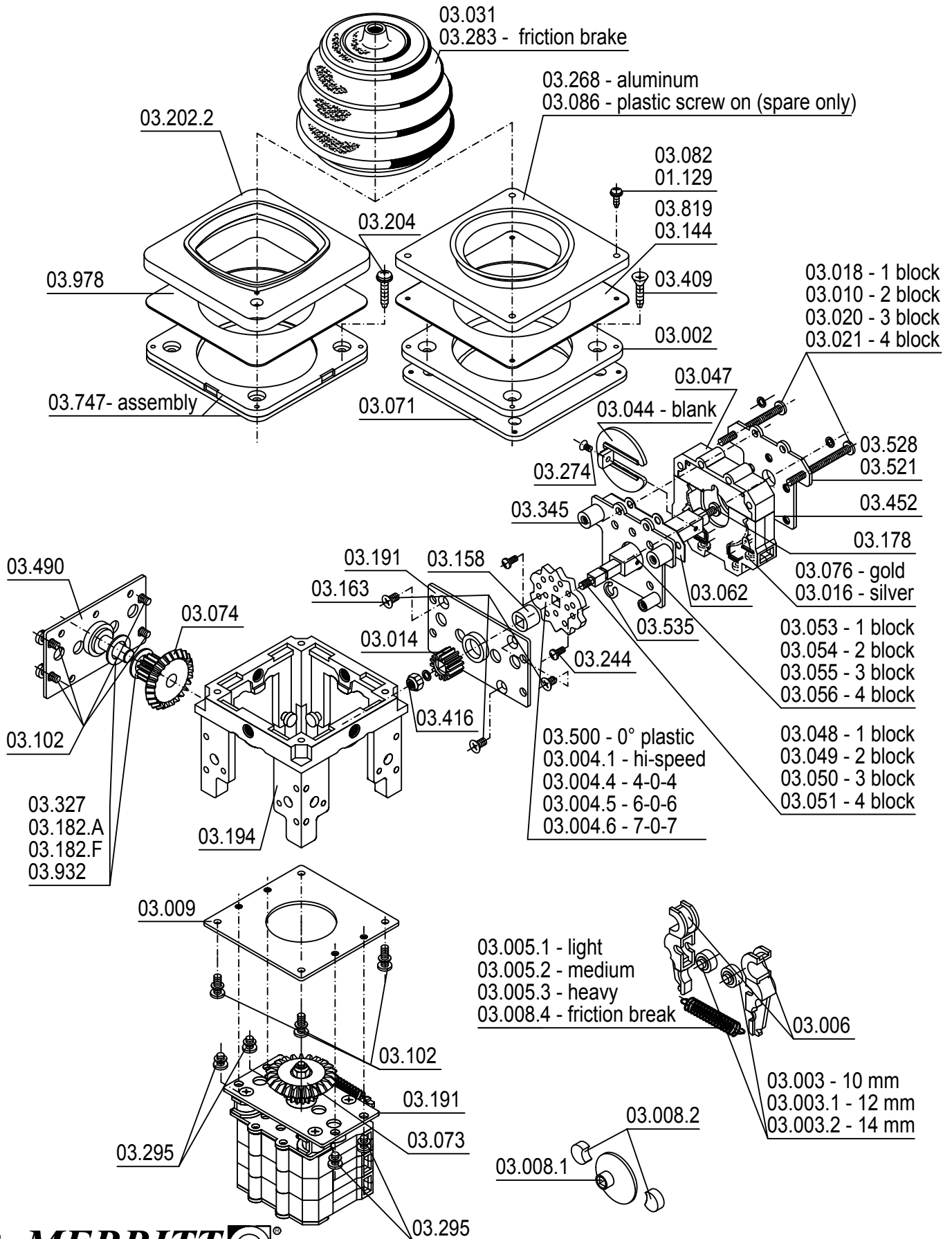


# SPARE PARTS VNSO-E, VNSO-V



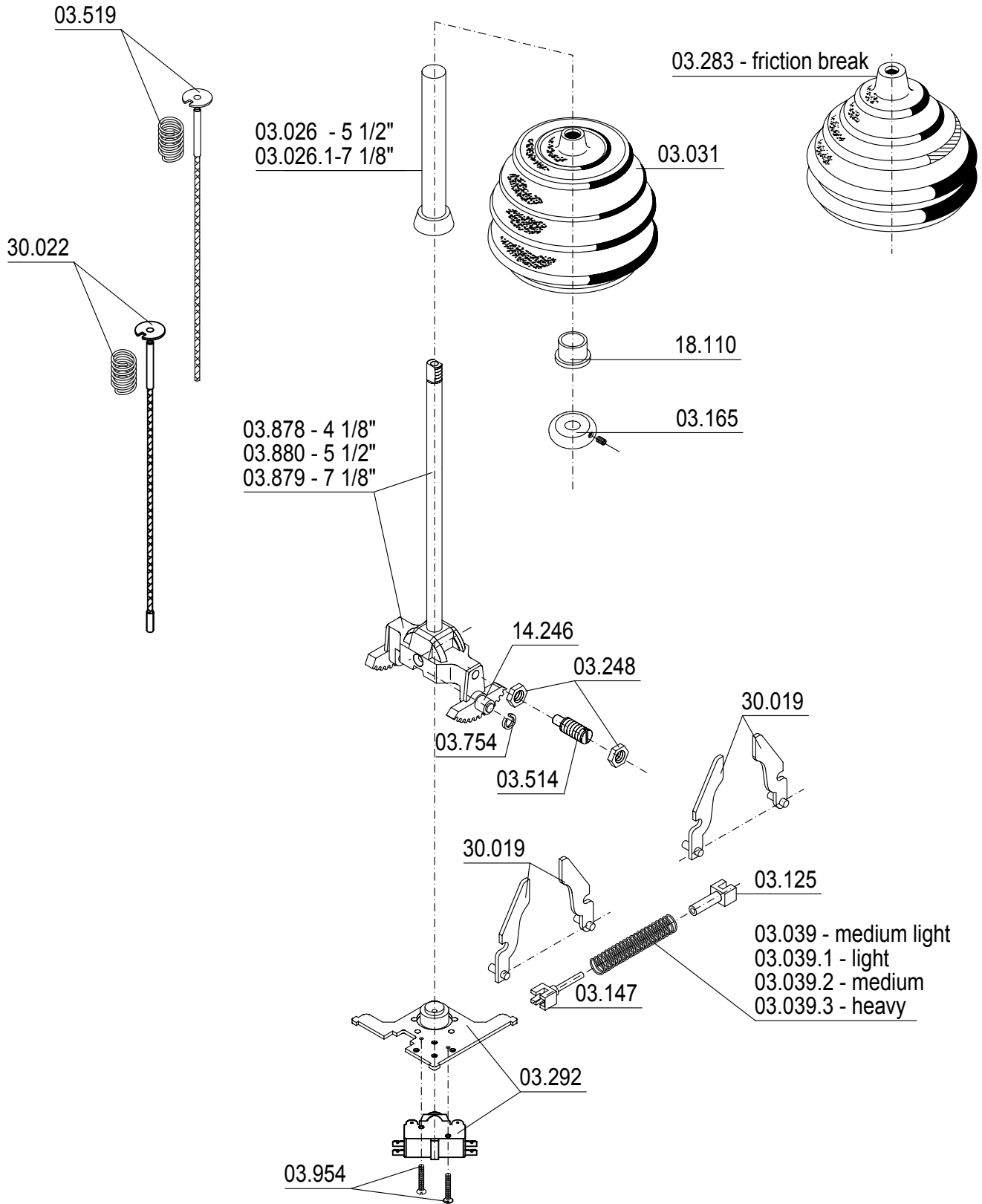
# SPARE PARTS VNSO-A, VNSO-EA



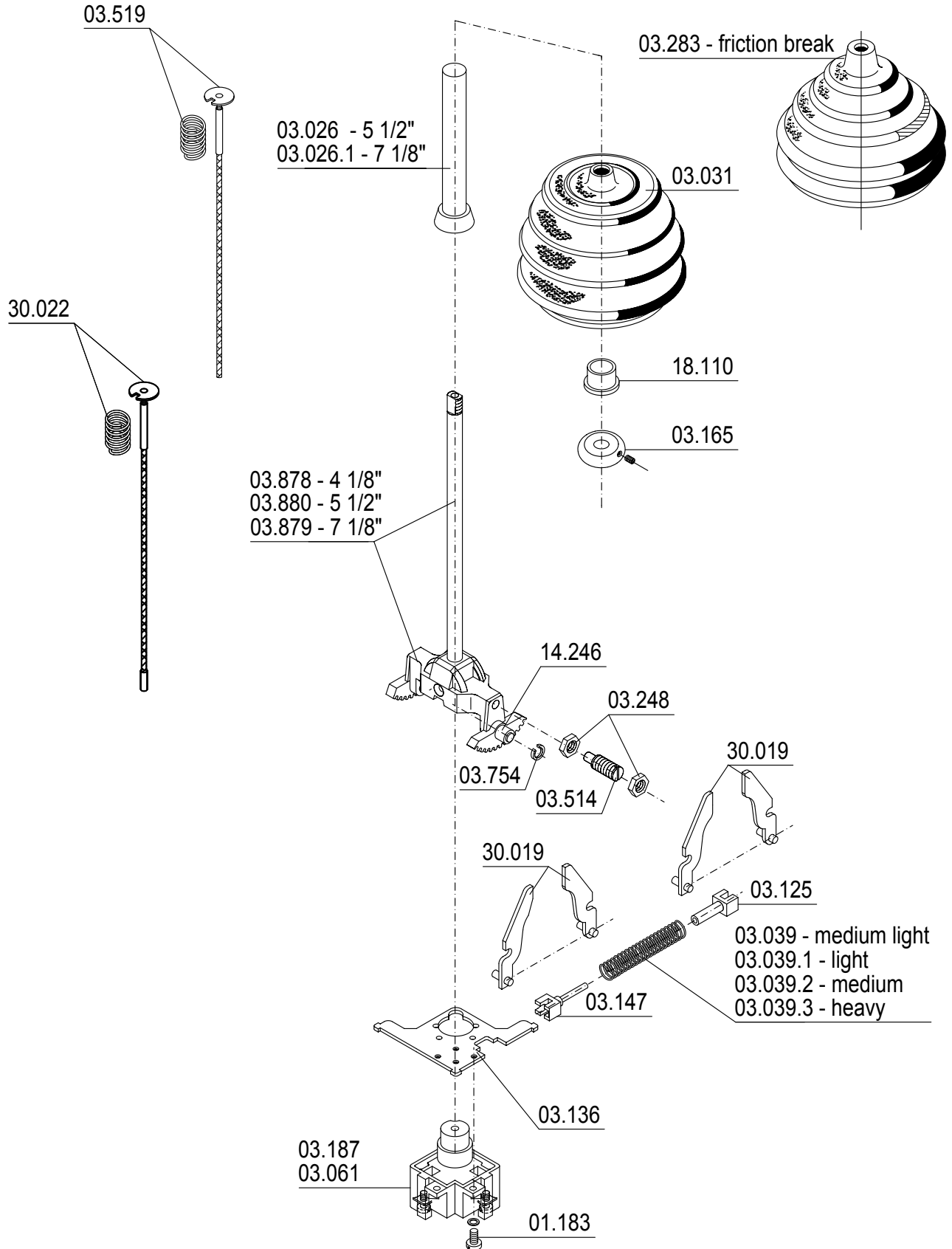
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# VNSO-A SPARE PARTS SINGLE AXIS



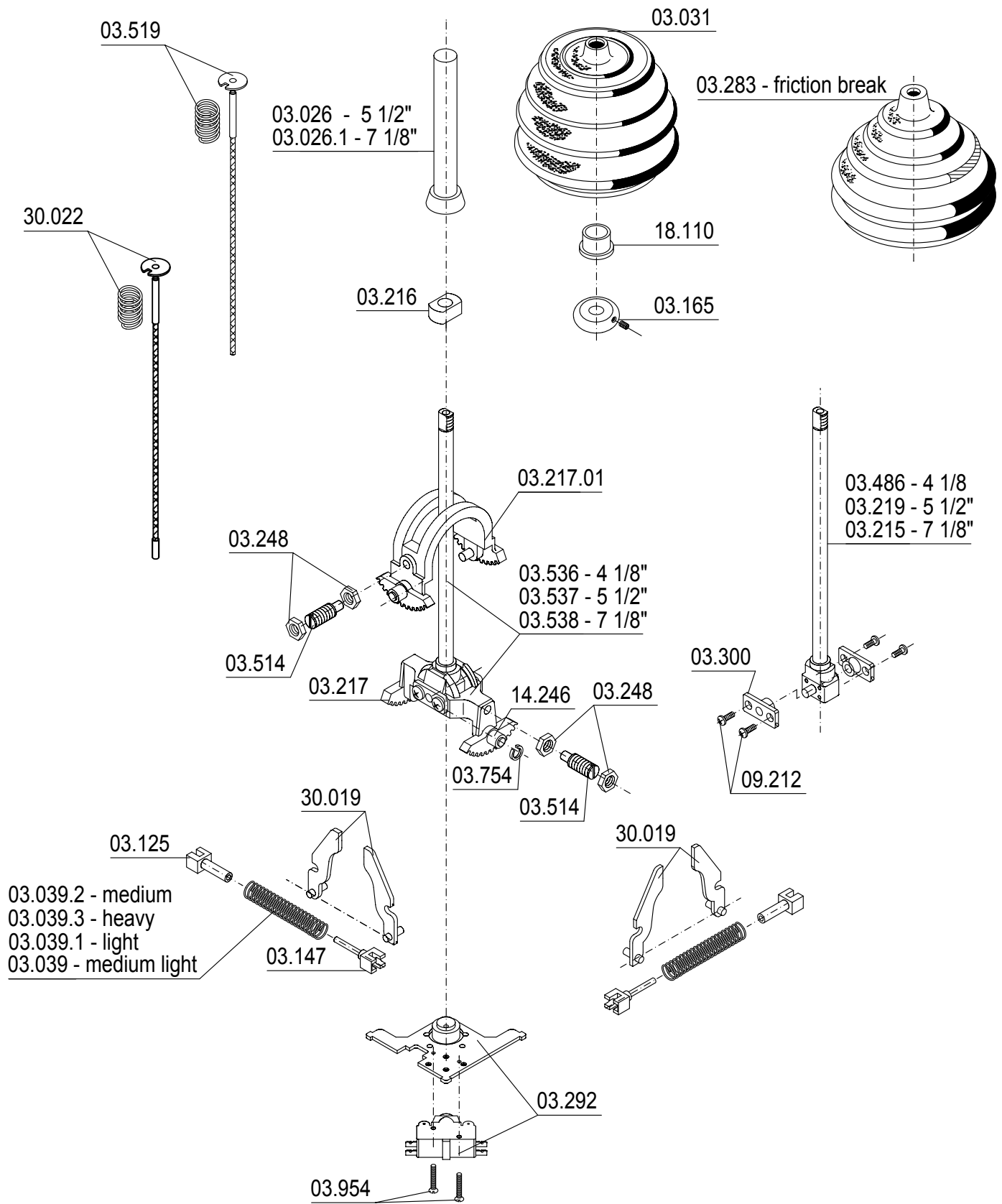
# VNSO-E, VNSO-G SPARE PARTS SINGLE AXIS



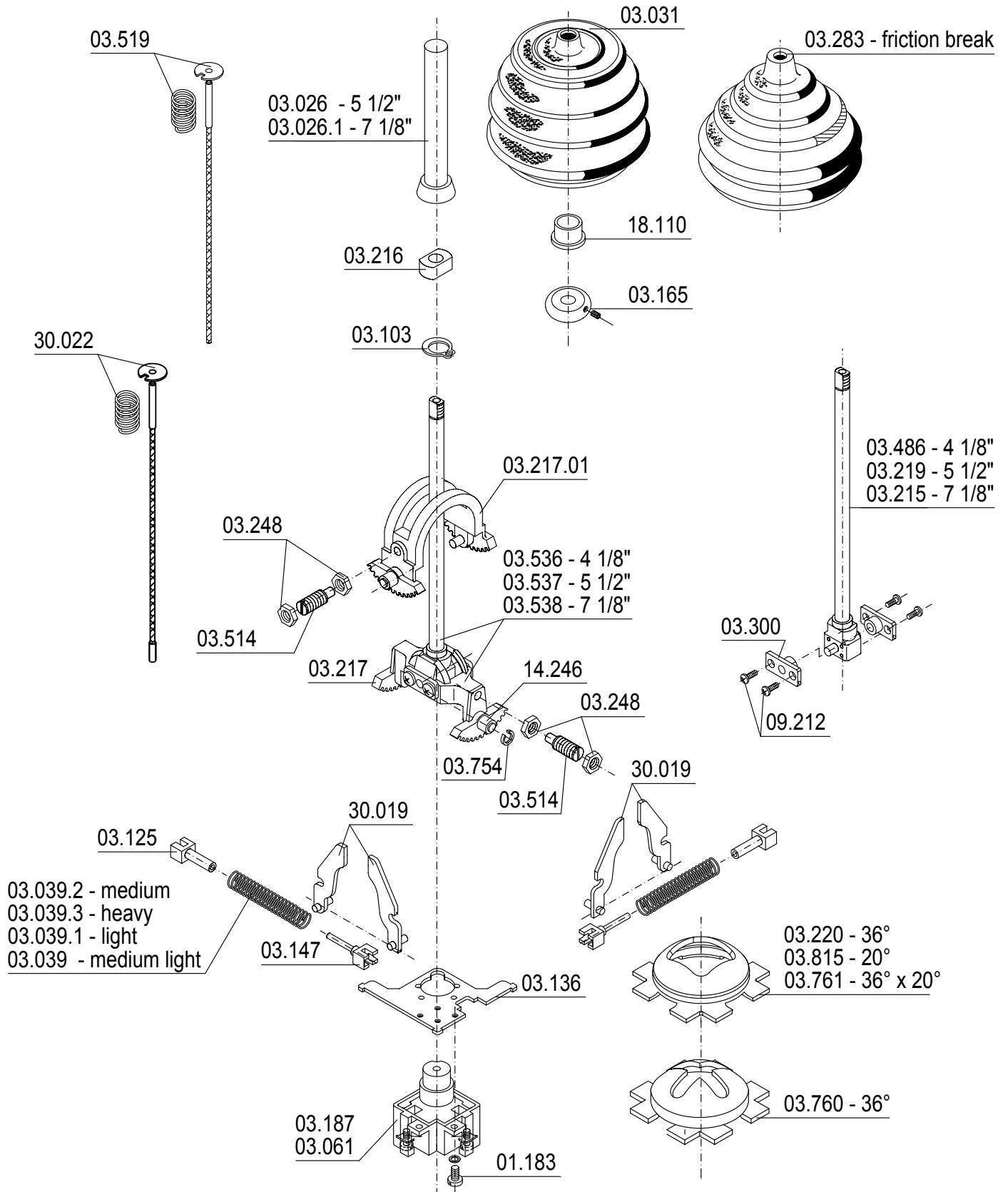
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# VNSO-EA SPARE PARTS DUAL AXIS



# VNSO-H, VNSO-V SPARE PARTS DUAL AXIS

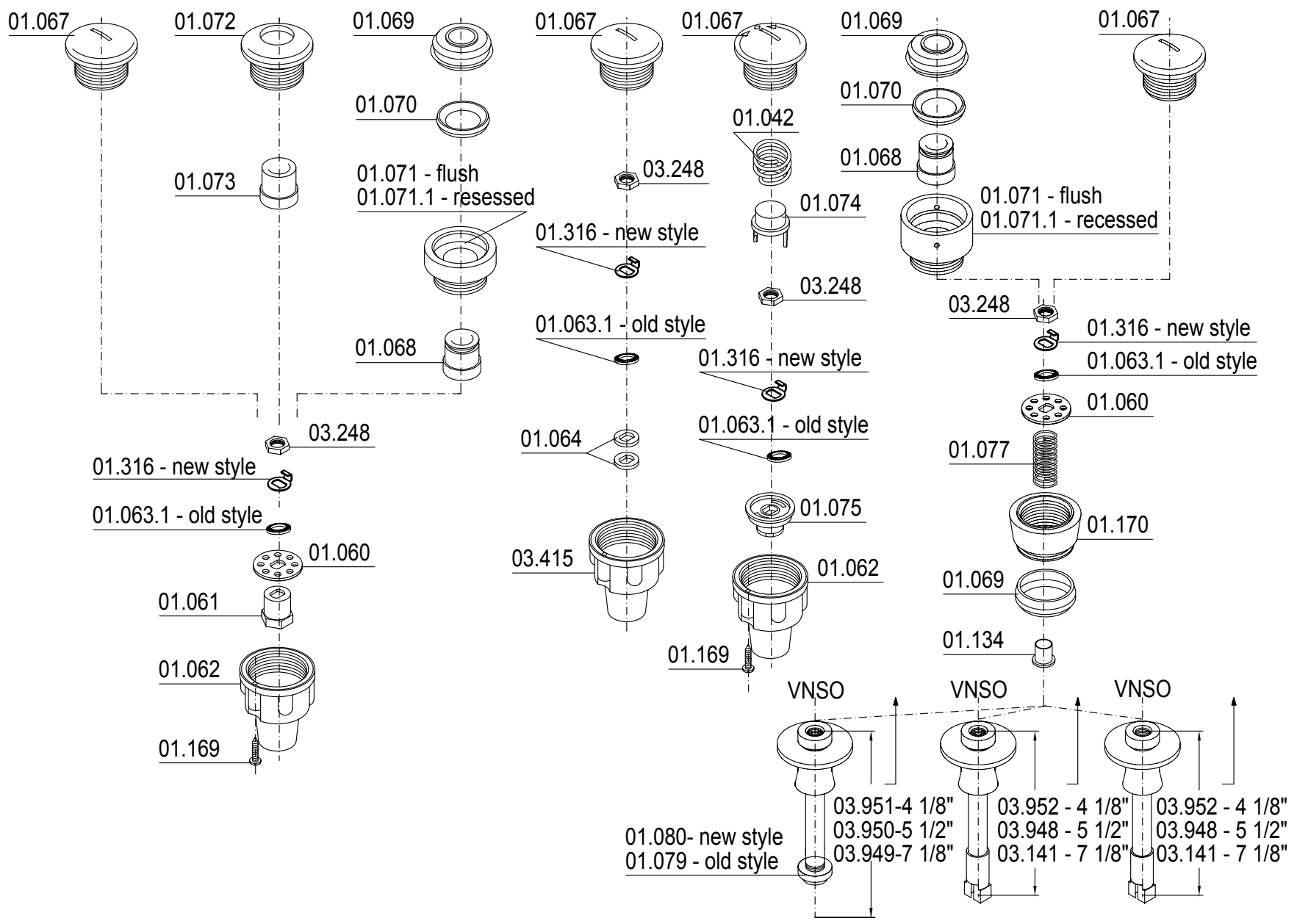


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# VNSO HANDLES SPARE PARTS

STANDARD WITHOUT PUSH BUTTON    EXTENDED PUSH BUTTON    HD&HDV WATERPOOFF PUSH BUTTON    PUSH DOWN DEADMAN    TWIST    MECHANICAL INTERLOCK WITH HD OR HDV PUSH BUTTON    WITHOUT PUSH BUTTON



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Pub. # 20.SP7

23195

## VNSO Spare Parts List

item_no	item_desc_1	item_desc_2
01.042	Spring, Twist	CSOZ5
01.060	Spacer, Handle	NSOES3B
01.061	Bushing, Handle	NSOES2
01.062	Cap, Lower Normal	NSOES41D
01.063	Nut, Jam	NSO34M M8x.75 mm
01.063.1	Washer, Rib M8	S8 (BAG/200)
01.064	Spacer, T VNSO	NSOES3BK
01.067	Cap, Normal ++	NSOES42
01.068	Actuator, HD ++	NSOES15M
01.069	Seal, Rubber HD Flush/Sealed++	NSOES42M
01.070	Ring, HD Brass sealing ++	NSOES42S
01.071	Cap, HD (Flush) ++	NSOES42-10 13281
01.071.1	Cap, HDV (recessed) ++	NSOES42-20 13282
01.072	Cap, H Pushbutton	NSOES42H A15.101.6845 R01
01.073	Actuator, H	NSOES15
01.074	Cap, Twist	NSOES41N
01.075	Adapter, Twist shaft	NSOES41T
01.077	Spring, Mech Interlock	CSOZ6
01.079	Collar, Operating-MI (oldstyle)	NSOESM1-40M10 X .75 Thread
01.080	Collar, Operating MI new ++	NSOESM1-40M10x1.0 thread
01.129	Screw, Slotted PH Machine	M3x4 DIN 85 (BAG/200)
01.134	Bushing, Boot MI (new)	V027ZA
01.169	Screw, Phillips PH Tapping	M2.9x16 DIN 7981C (BAG/100)
01.170	Handle, base, VNSO MI ++	NSO41K
01.183	Screw, Slotted CH Machine	M3.5x6 DIN 84 (BAG/100)
01.316	Washer, handle NSO (new style)	NSO ES106
03.002	Plate, Mounting Aluminum 96x96	NSO VO48R A10.101.7617 R02
03.003	Roller, Detent 10mm vi	NSO26-K10
03.003.1	Roller, Detent 12mm vi	NSO26-K12 Metal not plastic
03.003.2	Roller, Detent 14mm ++	NSO26-K14
03.004.1	Detent Wheel, Stl Hi-spd	NSO37-F3-2
03.004.4	Detent Wheel, Steel 4-0-4	NSO37-4 (13395)
03.004.5	Detent Wheel, Steel 6-0-6	NSO37-6 (13398)
03.004.6	Detent Wheel, Steel 7-0-7	NSO37-7
03.005.1	Spring, Detent Light 0.5	NSO25Z-0.5 ++
03.005.2	Spring, Detent Medium	NSO25Z-0.6 ++
03.005.3	Spring, Detent Heavy	NSO25Z-0.7 ++
03.006	Arm, Detent, Plastic, VNSO ++	with notch
03.008.1	Drum, Friction Brake	NSO26AB
03.008.2	Pads, Friction Brake	NSO26-PVpart of NSOKPL kit
03.008.4	Spring, Friction Brake	NSO25Z-0.9
03.009	Plate, Base Mtg clear zinc	A15.101.7078R1 A50.101.1302R08
03.010	Bolt, Assembly 2 blocks	M4x40 mm DIN 84 (BAG/100)
03.014	Gear, Horizontal V Drive	VO21M1 13787
03.016	Contact Block, Normal 2 pole	NSO53KB
03.018	Bolt, Assembly 1 block	M4x25 DIN 84 91460A176 100 pk
03.020	Bolt, Assembly 3 blocks	M4x55mm DIN 84 (BAG/200)
03.021	Bolt, Assembly 4 blocks	M4x70 mm DIN 84
03.026	Insulator, Shaft 5 1/2 ++	NSOES15-30
03.026.1	Insulator, Shaft 7 1/8 vi++	NSOES15-65
03.031	Boot, Rubber, Black, VO41N	VO41N replaces 03.031.1 ++

## VNSO Spare Parts List

item_no	item_desc_1	item_desc_2
03.039	Spring Return, Medium light vi	NSO29-11
03.039.1	Spring Return, Light vi	NSO29-09
03.039.2	Spring Return, Medium vi	NSO29-12
03.039.3	Spring Return, Heavy vi	NSO29-15
03.044	Cam, Blank, NSO	NSO41
03.047	Contact Block Retainer	NSO52
03.048	Shaft, Drive 1blk 33mm ++	NS039V-B-L1S (13858)
03.049	Shaft, Drive 2blk 51mm ++	NS039V-B-L2S M4x10mm DIN 84
03.050	Shaft, Drive 3blk 51mm ++	NS039V-B-L3S M4x25mm DIN 84
03.051	Shaft, Drive 4blk 81mm	NS039V-B-L4S M4x10mm DIN 84
03.053	Shaft, Cam, NSO, Brass 1 blk++	NSO14-1 26mm
03.054	Shaft, Cam, NSO, Brass 2 blk++	NSO14-2 41mm
03.055	Shaft, Cam, NSO, Brass 3 blk++	NSO14-3
03.056	Shaft, Cam, NSO, Brass 4 blk++	NSO14-4 71mm
03.061	Contact Aux,PB-E/V 1NO-1NC	NSO ES81-U
03.062	Spacer, Paper Retainer vi	NSO52F1
03.071	Gasket, Rubber 96 x 96	IDV006Z SK1107DH-REV01
03.073	Gear, Bevel, A, G drive ++	A040
03.074	Gear, Bevel Body w/sleeves	NS0 H040-F14-6
03.076	Contact Block, Gold	KNSO53KB
03.082	Screw, Phillips PH Machine	M4x4 DIN 7985 (BAG/50)
03.086	Nameplate, Plastic, Screw-on	96 x 96mm VO48K
03.102	Screw, Drive Body Mounting	DIN 7500C M4x10mm (BAG/250)
03.103	Clip, E-Shaft Grip Ring ++	A8 Size 10055-03338 (BAG/200)
03.125	Guide, Spring Return Female	A50.101.5366 R04
03.136	Plate, W Contact E,G,H,V Drive	B10.101.1312 R08
03.141	Tube, MI 142mm in Yoke	VNSO24Z-142
03.144	Insert, Gravoply- PI Nameplate	A10.101.1446 Rev02
03.147	Guide, Spring Return, Male w/	pin A50.101.5365 R04
03.158	Bushing, Brass 12 mm dia	NSO23B
03.163	Screw, Phillips FH Machine	M4x6 DIN 965 (BAG/200) +
03.165	Bushing, Boot	NSO ES5H
03.178	Screw, Slotted CH Machine	M4x8 DIN 84 Zinc (BAG/200)
03.182.A	Spacer, Bevel Gear, 16x8x0.2mm	H040-F14C/02 ++
03.182.F	Spacer, Bevel Gear, 16x8x1mm	H040-F14C/10 ++
03.187	Contact Aux, PB E/V 2NO	NSO ES81-SS
03.191	Plate & Pin, Front ++	with metal Bushing NSO34KB-12
03.194	Body, VNSO, Aluminium	A80.101.6379 R01
03.202.2	Nameplate, Plastic, Snap-on vi	VO48K3
03.204	Screw, Mounting Plastic	VO48R2 M4x14mm
03.215	Shaft Assy, VNSO 2 axis 7 1/8	180mm NS139B-180
03.216	Block, Guide-VNSO Plastic ++	NS128
03.217	Yoke, Oper Dual, CrNi, VNSO ++	NS162
03.217.01	Yoke, Crossover CrNi ++	NS161+128
03.219	Shaft Assy, VNSOV 2 axis 5 1/2	NS139B-140 140mm
03.220	Gate, Open, 36 deg	handle travel NSO 46GA ++
03.236	Screw, Phillips PH Machine	M3x8 DIN 7985 (BAG/200)
03.244	Screw, PH Phil Thread Forming	M3.5x6mm DIN 7500C
03.248	Nut, Jam, M8x1mm ++vi	NSO34M8x1 (BAG/200)
03.268	Nameplate, Black Alum, 96x96 +	V048AL63
03.274	Screw, Phillips FH Machine	M3x6 DIN 965 (BAG/200)

## VNSO Spare Parts List

item_no	item_desc_1	item_desc_2
03.283	Boot, Rubber, Friction Brake	VO41K
03.292	Pushbutton Assembly AEA	
03.300	Retainer, Shaft, VNSO ++	NS127 A50.101.5511 R00
03.327	Spacer, Drive, VNSO 16x6.2x1mm	NSO-H040-U10
03.345	Plate, Standoff w/spacers	A80.101.6016 R03
03.409	Screw, Mounting Aluminum 96x96	DIN 7500M M4x16mm (BAG/200)
03.415	Cap, Lower T	NSOES41
03.416	Nut, Nylock M4	DIN 985 (BAG/200)
03.452	Contact Block, Blank	NSO53-KB-leer
03.486	Shaft Assy, VNSO 2 axis 4 1/8	NS139B-110
03.490	Gear Plate with Pin, NSO ++	(new style) NSO34KZ
03.500	Detent Wheel, Plstic 0deg null	NSO37-OK (11252)
03.514	Bearing, Body 1.0 thread	NSO34L8x1, Achszapfen
03.519	Shaft, Flex VNSO A,EA 7-1/8"	NSOES46AJ-207 A60.101.8108 R00
03.521	Plate, Rear-NSO for Micro	B10.101.1271-01 R05
03.528	Plate, Rear Standard ++	NSO34K/DG
03.535	Clip, Steel Shaft	NSO39V
03.536	Yoke Shaft Coupling Assy, 4.13	NS162C-110 ++
03.537	Yoke, Shaft Coupling Assy 5.50	NS162C-140 ++
03.538	Yoke, Shaft Coupling Assy 7.13	NS162C-180 ++
03.747	Plate, Mtg Plastic w/gasket	96x96
03.754	Clip, VNSOE, 65, 5mm	DC-5 (BAG/200)
03.760	Gate, Cross, VNSO bronze 36deg	NSO46KK36 ++
03.761	Gate, Open, VNSO, Bronze vi++	36 deg x 20 deg
03.815	Gate, Open, VNSO 20deg end stp	NSO46GA20 ++
03.819	Insert, Plastic Screw on plate	IDV006F
03.822	Screw, Phillips PH Machine Nyl	M3x5 DIN 7985 Nylon (BAG/100)
03.878	Yoke, Assembly, Single 4 1/8"	A80.101.6887 R00
03.879	Yoke, Assembly, Single 7 1/8"	A80.101.6887 R00
03.880	Yoke, Assembly, Single 5 1/2"	A80.101.6887 R00
03.932	Spacer, Drive, 14 x 7.2 x 0.4m	HO40-F14B/04
03.948	Tube, MI, 108mm in Yoke	VNSO24Z-108
03.949	Tube, MI, 117mm in gate	VNSO25KZ-117
03.950	Tube, MI, 5-1/2 in Gate	VNSO25KZ-83
03.951	Tube, MI, 4 1/8 in Yoke	VNSO24Z-70
03.952	Tube, MI, 4-1/8 in Gate	VNSO25KZ-47
03.954	Screw, Slotted FH Machine	M2.5x16 DIN 963 (BAG/25)
03.978	Insert, Thin, Plastic Snap-On	NP VNSO A15.101.6803 R00
09.212	Screw, VNSO Shaft Retainer	BHSCS M4x8 ISO7380 (BAG/200)
14.246	Roller, Spring return, PRO4/6	A15.101.6204 R05 ++
18.110	Bushing, Boot, Brass, 9mm	A15.101.6356 R02
30.019	Arm, Spring Return VNSO	NSO16n Bronze
30.022	Shaft, Flex VNSO, 180mm UNIV	NSO ES46VJ-220 A60.101.8108R00