

***OPTIMA II***  
***WHEEL BALANCER***



***Parts Manual***

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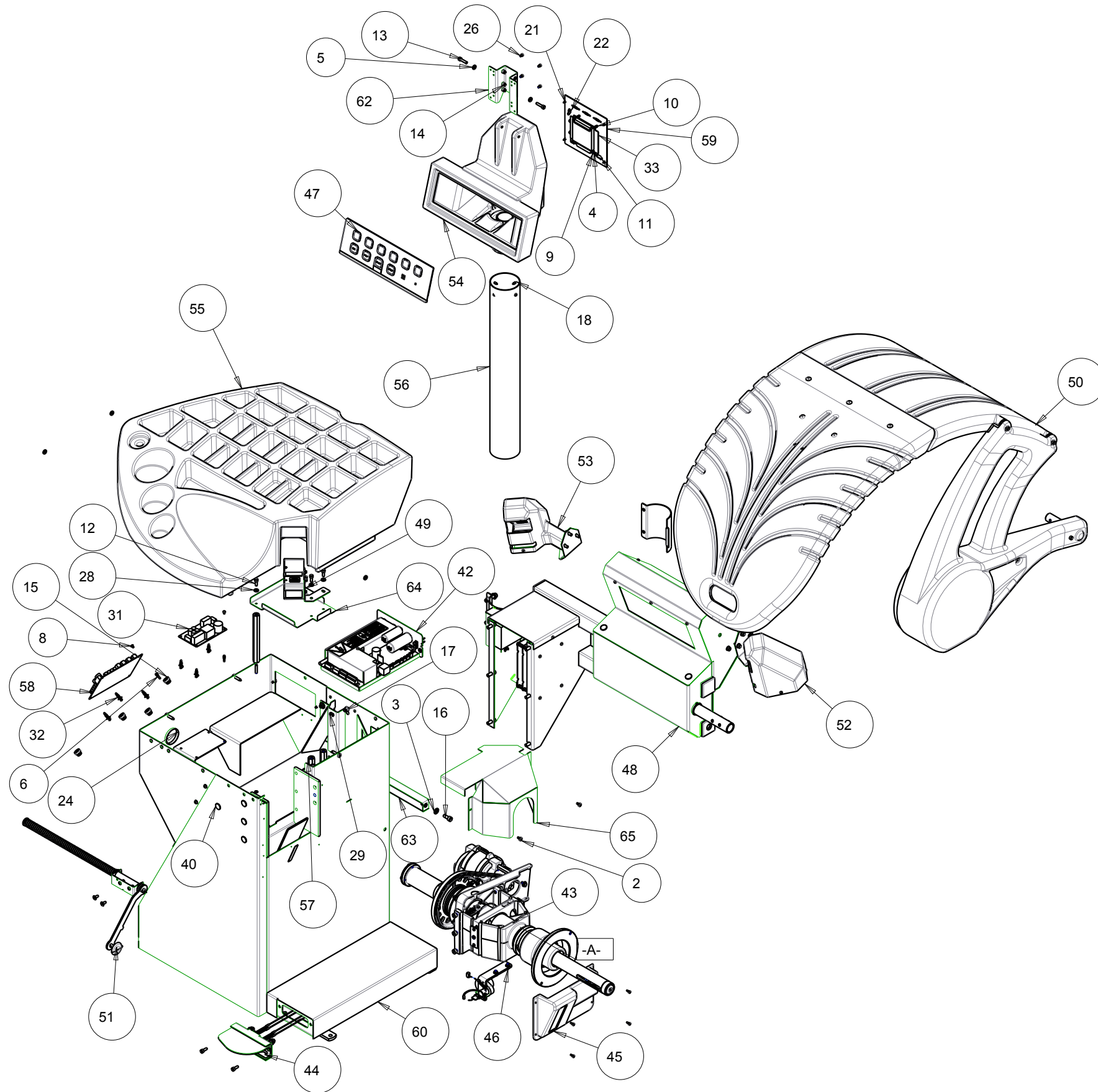
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BOM

REQ	ITEM	PART NUMBER	DESCRIPTION
1	1	00058839000	TOOL-PDQ WEIGHT
2	2	00085767000	PAD-FOAM
1	3	00089209000	CORD-POWER ADAPTER 12
1	5	1-02815A	SCREW-HH LAG 5/16 X 3
2	6	1-5433	NUT & L/WASHER ASSY 5/16-18
3	7	1-2541	WASHER - FLAT, 5/16
1	9	3-02309A	MODULE FLASH 44 PIN
1	11	3-03708A	MONITOR-LCD 17W
2	13	1-1115	BOLT-HEX 5/16-18X3 UNC 2A TAP
1	16	EAA0247G21A	CALIPER-RIM WIDTH
1	17	EAA0307G54A	ACCY KIT-PWR CLAMP
1	18	EAA0369J19A	BALANCER ASSY - OPTIMA II
4	19	EAC0060G02A	FLANGE-COVER, ACCESSORY
1	20	EAK0221J92A	KIT-PRINTER M2 CABINET
1	21	EAL0341J44A	LABEL - ATTENTION - MAX WEIGHT
1	22	EAL0341J56A	LABEL-LASER
1	23	EAL0341J57A	LABEL-CAUTION
1	24	EAL0341J63A	LABEL-PATENT
1	25	EAL0341J70A	LABEL - LASER APERATURE
1	26	EAL0341J71A	LABEL - CFR CERTIFICATION
1	27	EAL0341J96A	LABEL - BALANCER WARING, REAR
1	28	EAL0341J97A	LABEL - BALANCER WARING, SIDE
1	29	EAL0343J76A	LABEL-ELECTRICAL/SERIAL
5	30	EAL0349G87A	LABEL-WHEEL #1
5	31	EAL0349G88A	LABEL-WHEEL #2
5	32	EAL0349G89A	LABEL-WHEEL #3
5	33	EAL0349G90A	LABEL-WHEEL #4
5	34	EAL0349G91A	LABEL-WHEEL #5
1	35	EAL0392J89A	LABEL-CUST SERV JBC
3	36	EAL0412G63A	LABEL - 2M CLASS LASER
1	38	EAL0412G51A	DECAL- OPTIMA II
1	39	EAM0005D40A	CALIBRATION WEIGHT
4	40	EAM0006G01A	HOOK-ACCESSORY STORAGE
1	41	EAX0039J02A	CORD-POWER 230V PIGTAIL
1	44	ZEEWB546B9	LIT PACK- BFH 2000
1	45	3-02615A	DRIVE-USB FLASH 4 GB
3	46	1-18159B	BOLT-ANCHOR 3/8-16 X 3

BALANCER ASSEMBLY  
EAA0369J08A

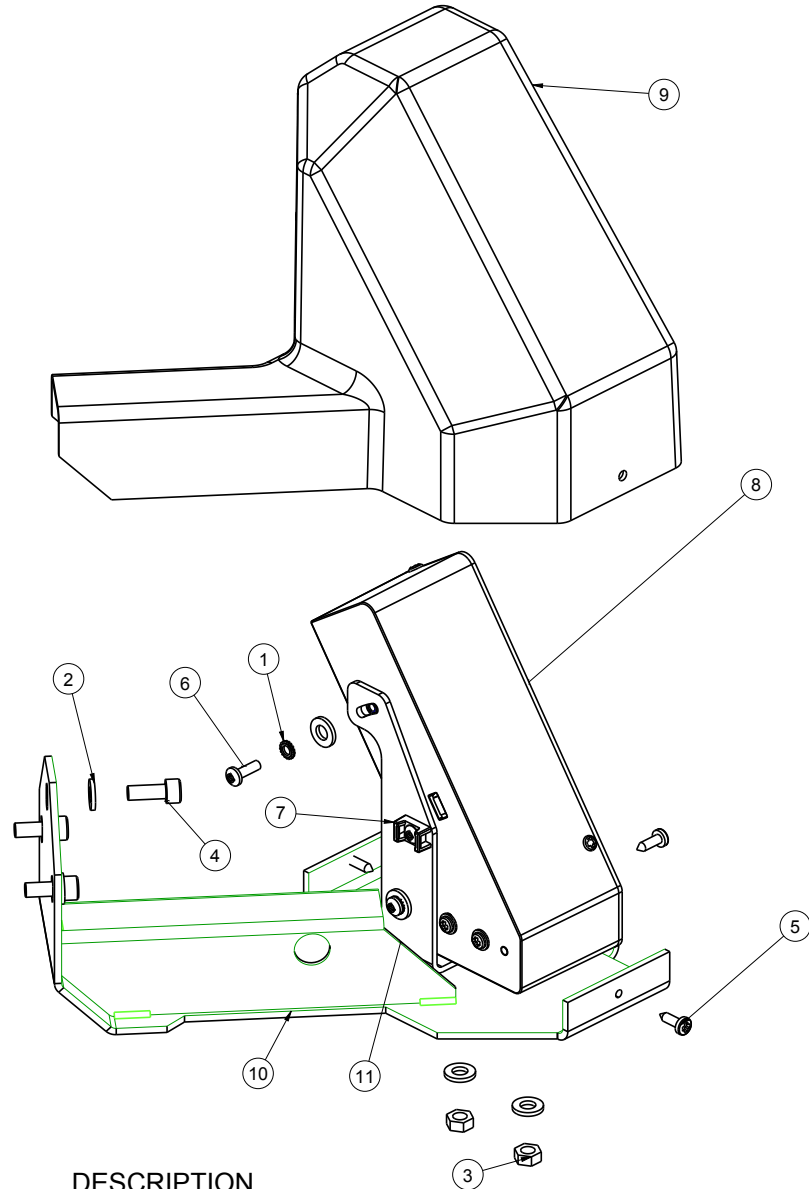


SYM	REQ	PART NO	DESCRIPTION				
1	8	EAS2116G12A	SPACER - VIB 0.2MM	47	1	EAA0364G98A	KEYPAD - NEUTRAL GREY W/ SLIDER
2	2	1-07824A	SCREW - SELF-TAPPING (M5 X 10 MM) ZINC (A2J)	48	1	EAA0369J20A	ASSY - OPTIMA 2 BACK PACK
3	2	1-10041	WASHER D.8 UNI6592-69/DIN125	49	1	EAA0369J22A	ASSY - INSIDE SCANNER
4	3	1-11233	NUT - HEX, M3 DIN 934	50	1	EAA0369J23A	ASSY - WHEEL GUARD
5	5	1-11744A	WASHER - NYLON FLAT	51	1	EAA0369J24A	SAPE - 2000 / OPTIMA 2
6	2	1-11961A	STANDOFF - HEX M4 X 10	52	1	EAA0369J25A	ASSY - REAR RIGHT CAMERA
7	1	1-1248	WASHER SHAKE PROOF, M3	53	1	EAA0369J26A	ASSY - REAR LEFT CAMERA
8	2	1-13606A	SCREW-PHMS,M4 X 6MM W/ LOCKWASHER	54	1	EAC0094G36A	MONITOR AND KEYBOARD SUPP.
9	2	1-14661A	HEX METAL SPACER M3X15MM M/F NICKEL	55	1	EAC0099G60A	WEIGHT TRAY -SOL
10	2	1-14761A	HEX METAL SPACER M3X15MM F/F NICKEL	56	1	EAM0050J49A	TOWER - BALANCER TUBE
11	2	1-16161A	HEX SPACER M/F 4-40 L=5MM	57	3	EAM0071G44A	HEXAGONAL SPACER
12	5	1-16309	SCREW - SHCS, M6 X 16MM,	58	1	EAP0271G60A	CAMERA AND HUB USB
13	2	1-16509A1	SCREW - SHCS, M6 X 25MM, BLK	59	1	EAS2097G95A	SUPPORT PLATE FOR
14	9	1-17559A	NUTSERT - M6	60	1	EAA0369J32A	CABINET ASSY - M2, RED
15	4	1-17659A	THREADED INSERT M10X22		1	EAA0369J33A	CABINET -BALANCER M2 US BLUE
16	2	1-17709	SCREW - SHCS M8 X 20MM	62	1	EAS2113J55A	BRACKET - MONITOR MOUNT
17	8	1-18359A	THREADED INSERT M8X1,25	63	1	EAS2118J62A	STIFFENING - M2 CABINET
18	4	1-18523A1	SELF TAPPING SCREW D4,8X13MM	64	1	EAS2118J64A	BRACKET - INNER SCANNER
19	3	1-03725A	SCREW-PH SELF TAP M6.3X32 PHIL	65	1	EAS2128J19A	WELDMENT - VIB COVER,
21	4	1-20423	SCREW, SELF TAPPING M4.2 X 13MM	66	1	EAW0240G86A	CABLE ASM- STOP,
22	5	1-20504A	SCREW PAN HEAD	67	1	EAW0276G22A	CABLE ASM- STOP SHORT,
24	1	1-2676	PLUG-HOLE, 2"DIA	68	1	EAW0276G24A	CABLE ASM - STEPPER MOTOR,
25	2	1-3724	SCREW-SELF TAP,5 X 10MM	69	1	EAW0276G28A	LASER - POINTER EXTENSION WIRE
26	4	1-46809	SCREW-HEX SOCKET HEAD CAP M4X6 8.8 -A2J	70	1	EAW0276G29A	CABLE ASM - STEPPER MOTOR,
27	3	1-51910A	SCREW STEI 6X30 12K	71	1	EAW0276G31A	WIRING HARNESS -
28	3	1-9841	WASHER PLAIN, 6MM	72	1	EAW0276G51A	CABLE ASM - AWP ENCODER
29	1	2-23201	TERMINAL LUG-6.3MM X .8MM POP RIVET	73	1	EAW0277G05A	MAIN CORD MONITOR AND SWITCH
30	1	2-28301A	GROUND CONNECTOR	74	1	EAW0233J50A	CABLE - POWER SUPPLY
31	1	2-48066A	12V POWER SUPPLY	75	1	EAM0071G52A	GLASS FOR LASER
32	6	2-732	SUPPORT PCB LOCKING	76	1	5-10540A	DOUBLE SIDES ACRYLIC FOAM TAPE
33	1	3-05009A	EMBEDDED-PC KIT PCM3353F-1GB RAM				
34	1	3-60826AF1	MEMORY CARD PROG EPC NEW GUI				
35	2	6-08722A	USB 2 CABLE, A-MINIB 2M				
36	3	6-08822A	USB 2 CABLE, A-MINIB 1.5M				
37	1	6-09122A	USB 2 CABLE, A-B 2M				
38	1	6-09922A	PATCH CABLE FTP 2M				
39	4	6-10022A	PATCH FLAT CABLE UTP				
40	4	8-7216	PLUG-HOLE, 16MM DIA				
42	1	EAA0338G83B	ASSY - IBP DIGITAL BOX				
43	1	EAA0363G57A	ALU. OPTIMA VIBRATORY SYSTEM				
44	1	EAA0346J82A	ASSY - FOOT PEDAL POWER CLAMP				
45	1	EAA0358G03A	LASER POINTER				
46	1	EAA0358G04A	ASSY LASER				

# REAR CAMERA ASSEMBLY LEFT/RIGHT

EAA0369J26A - LEFT

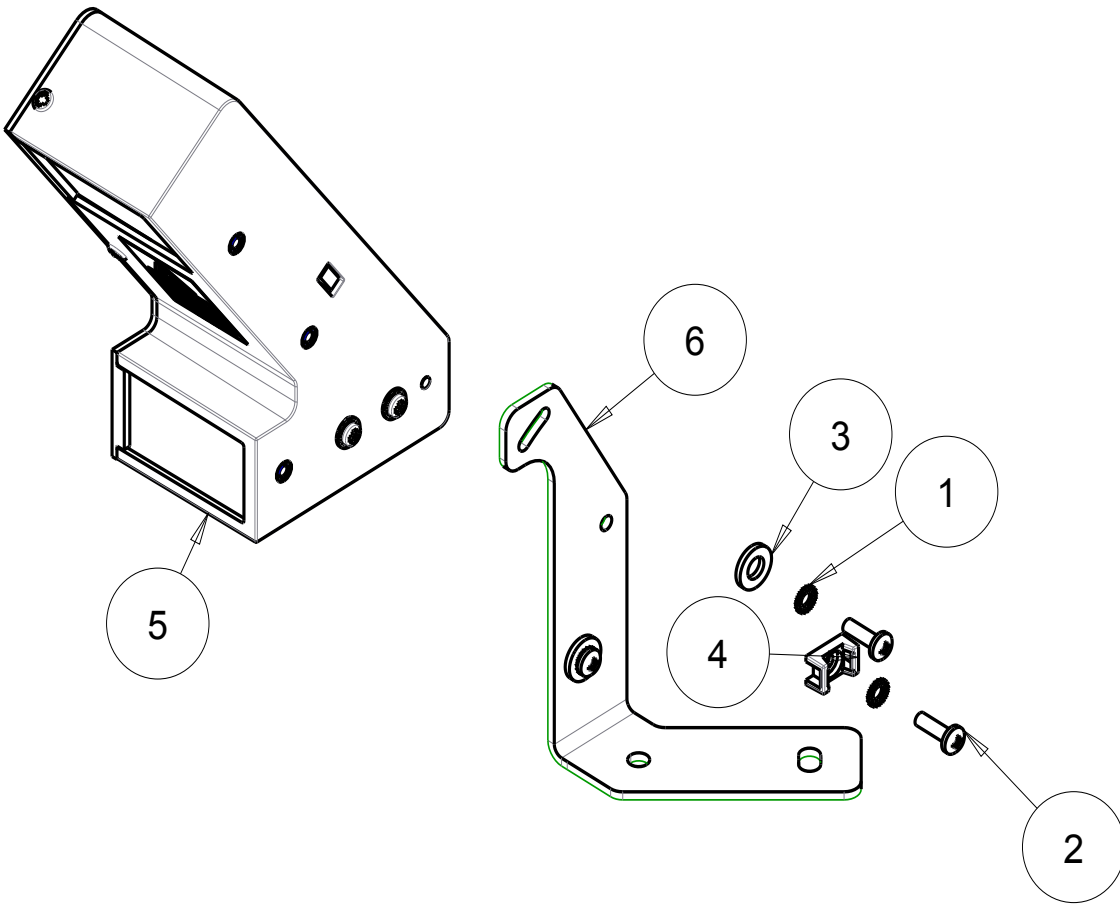
EAA0369J25A - RIGHT



SYM	REQ	PART NO	DESCRIPTION
1	3	1-1348	LOCKWASHER D4
2	7	1-9841	WASHER PLAIN, 6mm
3	2	1-9933	M6 NUT, ZINC
4	3	1-16309	SCREW - SHCS, M6 X 16mm,
5	3	1-22623A	SELF-TAPPING SCREW TCB
6	3	1-24606A	SCREW-PHMS,M4 X .7MM X 12MM
7	1	5-07945A	FLAT TIE HOLDER FTH-13R
8	1	EAA0345G77A	SHEET OF LIGHT MODULE
9	1	EAC0100G27A	COVER FOR REAR LEFT
	1	EAC0099G67A	COVER FOR REAR RIGHT
10	1	EAS2116G99A	ASSY REAR LEFT CAMERA
	1	EAS2116G98A	ASSY REAR RIGHT CAMERA
11	1	EAS2128J03A	SUPPORT - COMPLETE INTERMEDIATE

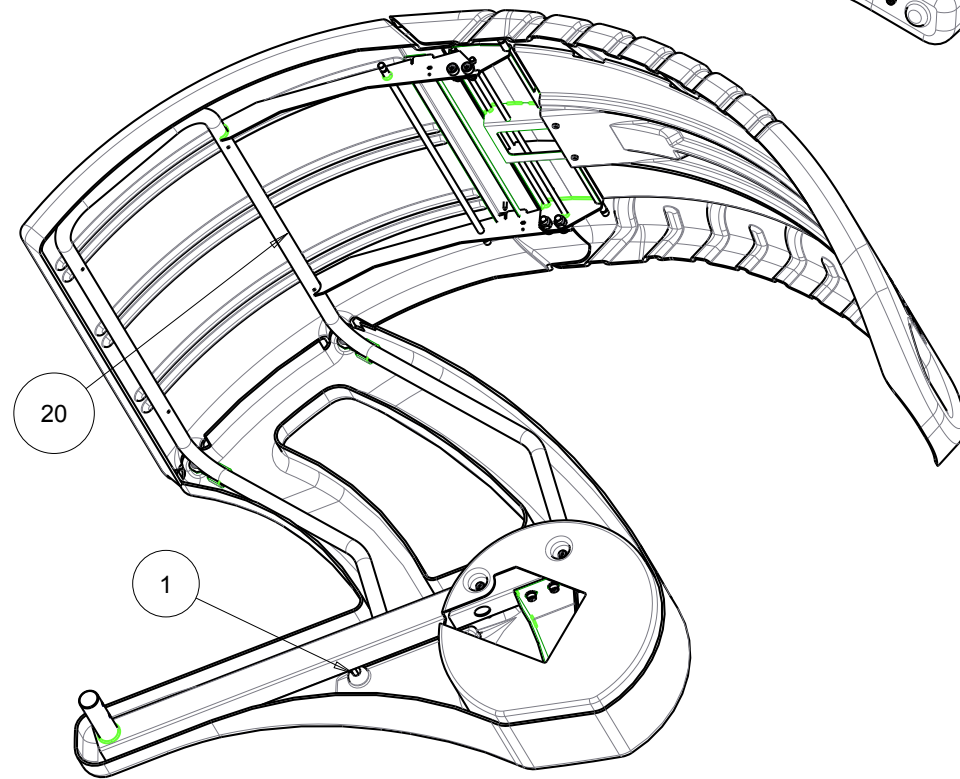
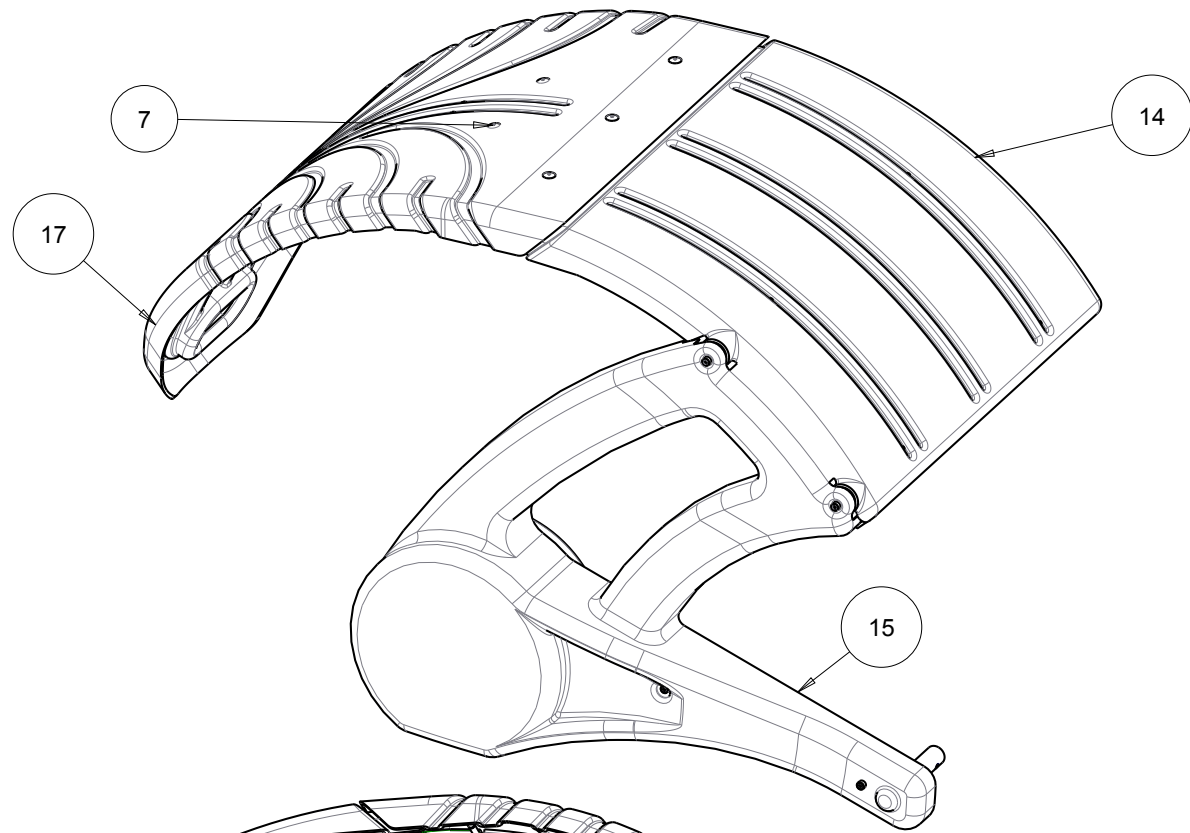
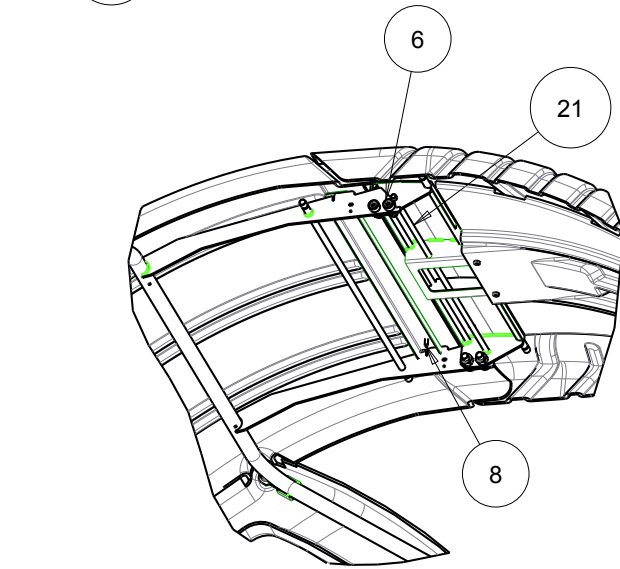
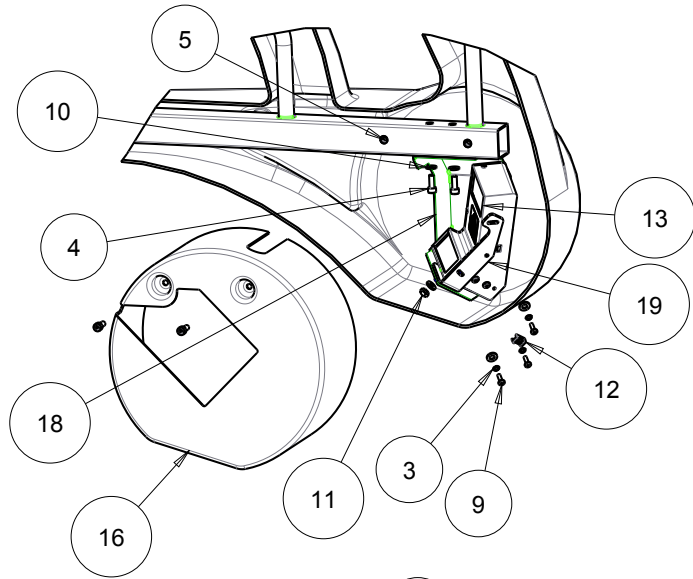


INSIDE SCANNER ASSEMBLY  
EAA0369J22A



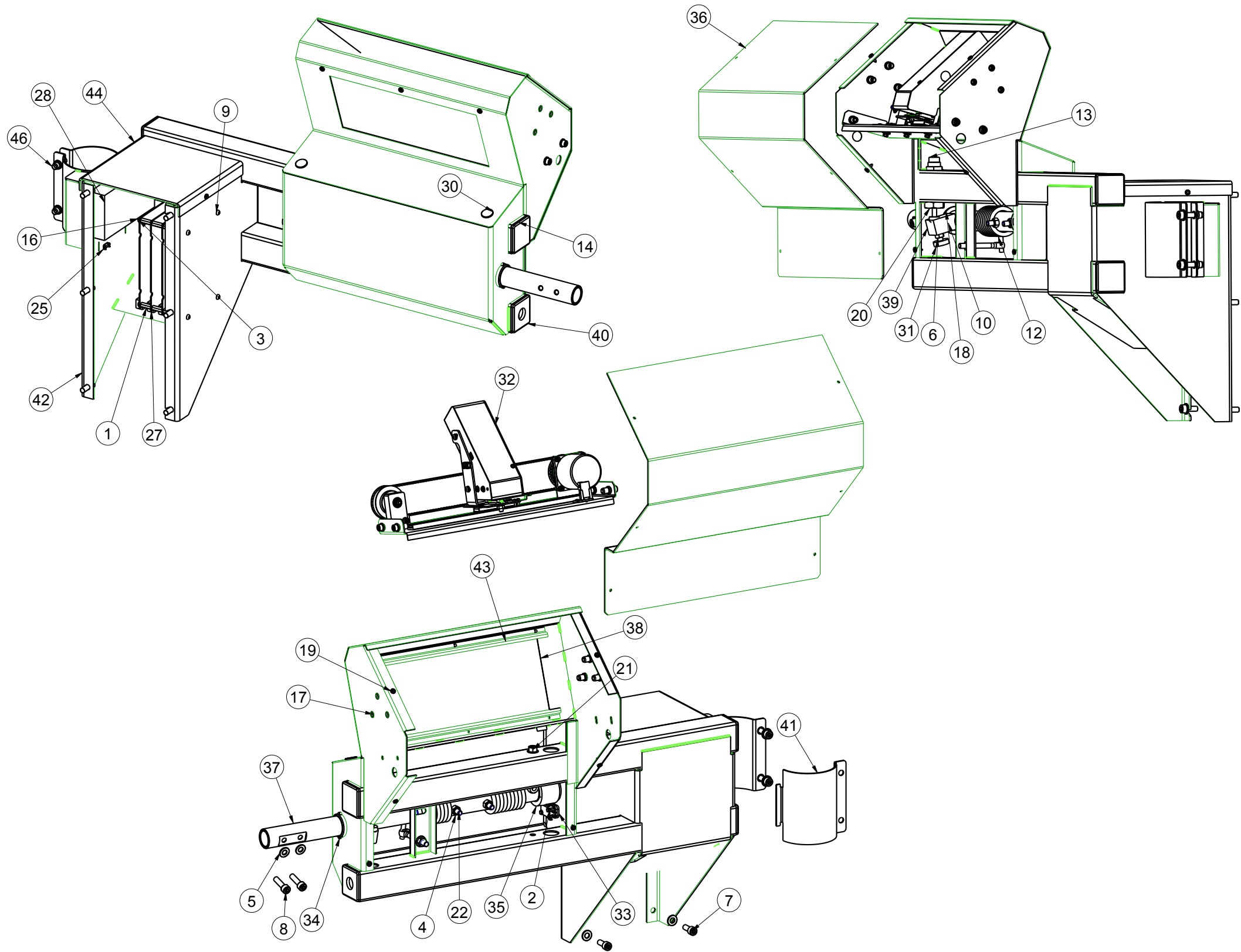
SYM	REQ	PART NO	DESCRIPTION
1	3	1-1348	LOCKWASHER D4
2	3	1-24606A	SCREW-PHMS,M4 X .7MM X 12MM
3	2	1-9841	WASHER PLAIN, 6mm
4	1	5-07945A	FLAT TIE HOLDER FTH-13R
5	1	EAA0345G77A	SHEET OF LIGHT MODULE
6	1	EAS2118J63A	SUPPORT - INNER SCANNER

WHEEL GUARD ASSEMBLY  
EAA0369J23A



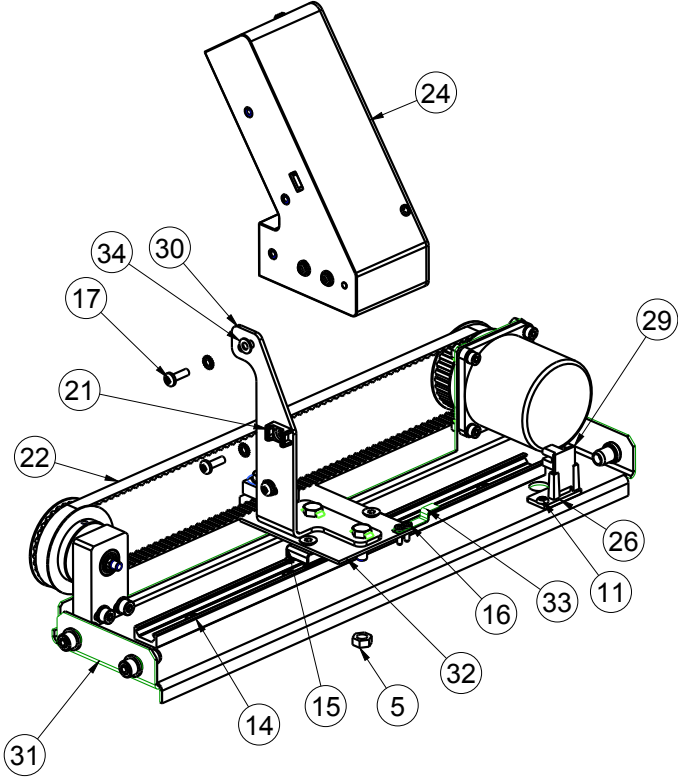
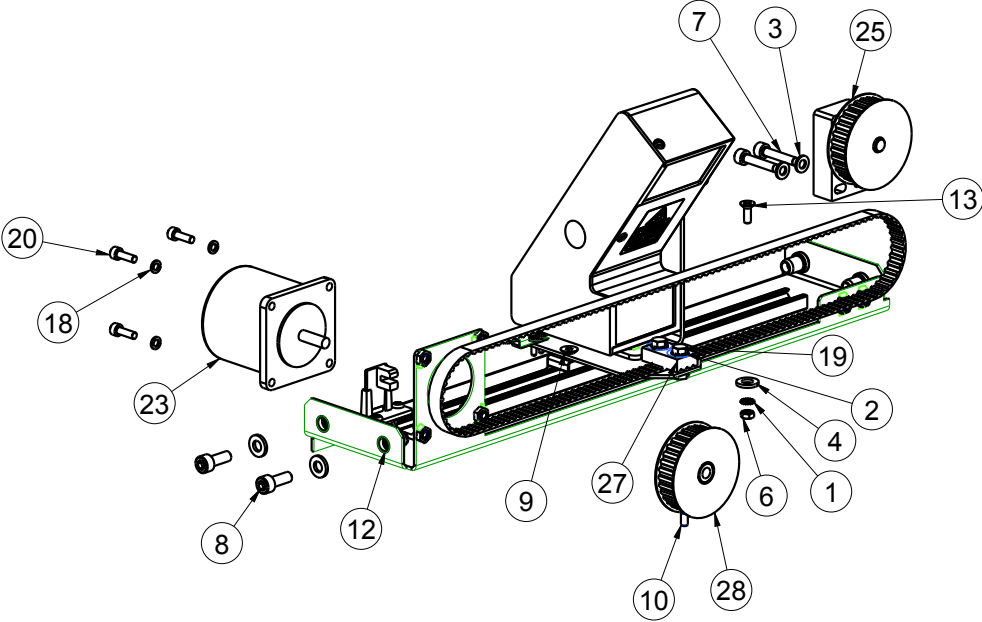
SYM	REQ	PART NO	DESCRIPTION
1	1	1-01915A	EXAG. SPACER M6x35
2	4	1-10033	NUT, HEX, M8
3	3	1-1348	LOCKWASHER D4
4	8	1-16309	SCREW - SHCS, M6 X 16mm,
5	8	1-17559A	NUTSERT - SELF CLINCH, M6 X 16,5mm
6	4	1-17709	SCREW - SHCS M8 X 20mm
7	5	1-18158A	RIVET 4,8x10
8	10	1-22623A	SELF-TAPPING SCREW TCB
9	3	1-24606A	SCREW-PHMS,M4 X .7MM X 12MM
10	6	1-9841	WASHER PLAIN, 6mm
11	2	1-9933	M6 NUT, ZINC
12	1	5-07945A	FLAT TIE HOLDER FTH-13R
13	1	EAA0345G77A	SHEET OF LIGHT MODULE
14	1	EAC0099G58A	BFH WHEEL GUARD
15	1	EAC0100G28A	BFH WHEEL GUARD
16	1	EAC0100G29A	BFH EXTERNAL SCANNER
17	1	EAM0075G17A	STIFFENED BFH
18	1	EAS2116G00A	ASSY EXT. CAMERA
19	1	EAS2128J03A	SUPPORT - COMPLETE INTERMEDIATE
20	1	EAS2128J05A	WHEELGUARD ASSY- BFH2000, LOWER
21	1	EAS2128J09A	WHEELGUARD ASSY- BFH 2000, TOP

BACK PACK ASSEMBLY  
EAA0369J20A



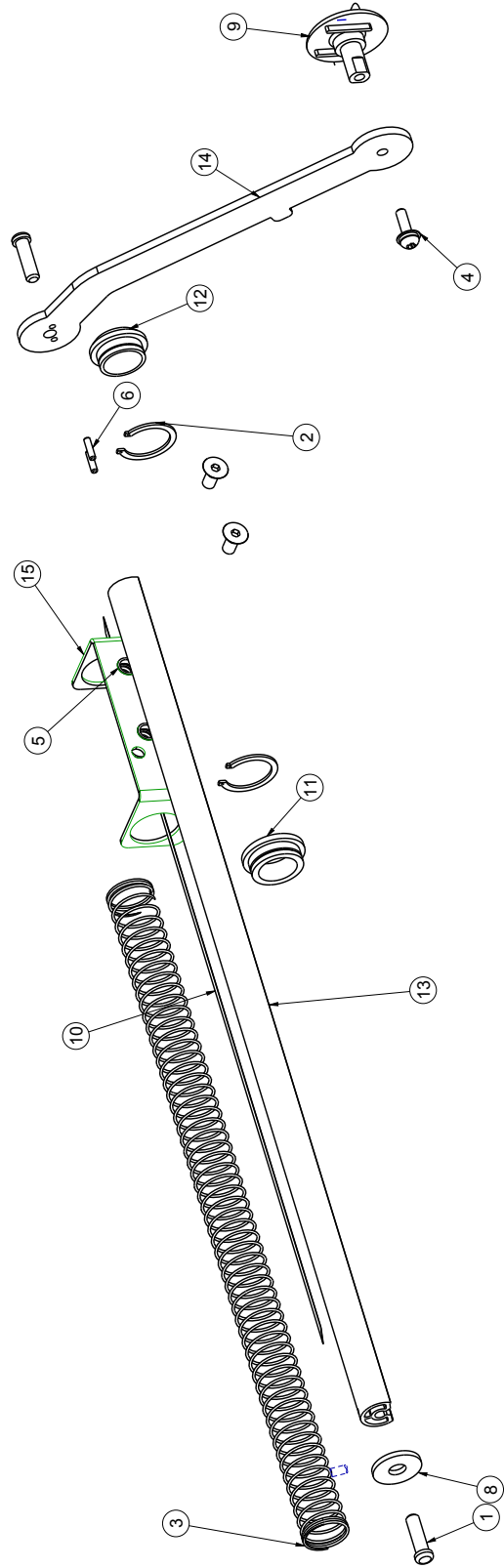
SYS	REQ	PART #	DESCRIPTION
1	16	1-02015	STANDOFF - HEX, M4 X 20MM F/F
2	2	1-9541	WASHER-FLAT,M3 DIN 125A
3	4	1-5547	WASHER-LOCK, EXT, M4
4	2	1-10033	NUT, HEX, M8
5	12	1-10041	WASHER D.8 UNI6592-69/DIN125
6	1	1-11733	NUT M8 6S STAND WHITE ZINC
7	6	1-17709	SCREW - SHCS M8 X 20mm
8	4	1-17909	SCREW-HHCS M8 X 30
9	4	1-19804	SCREW, PHIL PAN HEAD M4x6 *
10	1	1-20409	SCREW TCEI M12X35 12.9 BR
11	2	1-02330A	"EYE"-SCREW M8x70
12	2	1-04267A	SPRING-TORSION
13	1	1-04969A	SHOCK ABSORBER W NUT W CUP
14	3	1-11276A	50x50 SQUARE CAP
15	2	1-26901	SCREW,HEX HEAD MAC. M3X20 8.8 A2
16	4	1-11433A	NUT- M4X3,2mm THK, BLK
17	6	1-17559A	NUTSERT - SELF CLINCH, M6 X 16,5mm
18	1	1-22441A	SHIM RING 32X45X1
19	11	1-22623A	SELF-TAPPING SCREW TCB
20	1	1-22933A	NUT - MB 20X1.5 6S
21	2	1-23159A	6kt-Mutter M8 (DIN 6927)
22	2	1-24603A	SCREW M8x60 CLASSE 12.9
23	1	1-49010A	SCREW, SOCKET WITH CUP POINT M8X8
24	1	2-08861A	SWITCH-BASIC
25	1	2-23201	TERMINAL LUG-6.3MM X .8MM POP RIVET
27	4	3-05109A	EMBEDDED PC ALIX3D2
28	1	3-05209A	SWITCH ETHERNET 10/100 MBPS
29	4	3-64926AF1	PROGRAMMED - C FLASH WITH CAMERA EPC
30	2	8-7216	PLUG-HOLE, 16MM DIA
31	1	8-13518A	Bumper 25x7 /M8x23
32	1	EAA0369J21A	ASSY-REAR SCANNER, BFH
33	1	EAC0053J16A	MICROSWITCH PLATE
34	2	EAC0058D36A	WHEELGUARD BUSHING D.32
35	1	EAC0058D38A	Schaltring Switch Segment
36	1	EAC0099G44A	BFH REAR SCANNER
37	1	EAM0071G35A	BFH WHEEL GUARD
38	1	EAM0071G59A	GLASS FOR REAR
39	1	EAM0074G04A	BFH WHEEL GUARD
40	1	EAM0074G05A	MACHINED SQUARE
41	1	EAS2118J71A	CLAMP - PRINTER SUPPORT
42	1	EAS2118J84A	ASSY BFH BACK PACK
43	1	EAS2118J96A	GLASS SUPPORT
44	1	EAS2118J97A	COVER - BACK PACK, BFH 2000
45	1	EAW0233J23A	CABLE ASM - HOOD SWITCH
46	2	1-18359A	THREADED INSERT M8x1,25
47	1	5-03241A	"P" ADHESIVE SEAL
48	1	5-10426A1	TAPE-VELCRO 1" HOOK
49	1	5-10426A2	TAPE-VELCRO 1" LOOP

REAR SCANNER ASSEMBLY  
EAA0369J21A



SYM	REQ	PART NO	DESCRIPTION
1	7	1-1348	LOCKWASHER D4
2	2	1-1448	WASHER - EXTER SHAKEPROOF D5
3	2	1-9741	WASHER-FLAT, M5 X 10.00D X 1MM THK
4	10	1-9841	WASHER PLAIN, 6mm
5	2	1-9933	M6 NUT, ZINC
6	4	1-11433	NUT - M4 6S
7	2	1-15209	SCREW - SHCS, M5 X 25mm, ZINC
8	4	1-16309	SCREW - SHCS, M6 X 16mm,
9	2	1-18503	SCREW TSEI 5x12 8.8
10	1	1-38910	SCREW M4X8SET CUP ZP
11	2	1-17023a	SHEETMETAL SCREW PHIL HEAD
12	4	1-17559A	NUTSERT - SELF CLINCH, M6 X 16,5mm
13	4	1-20603A	SCREW PH. 4x12 ZINC. UNI 7046 4.8
14	1	1-21284A	SLIDEWAYS ROLLON
15	1	1-21384A	SLIDING BLOCK
16	2	1-22723A	SCREW SELF TAP.
17	3	1-24606A	SCREW-PHMS,M4 X .7MM X 12MM
18	4	1-2546A	WASHER - SP LOC, 4mm X 0,9mm, BLK
19	2	1-46401A	SCREW,HEXAG M5X16 A2J DIN 933
20	4	1-52009A	SCREW, HEX SOCKET HEAD M4x12
21	1	5-07945A	FLAT TIE HOLDER FTH-13R
22	1	8-06631A	TOOTHED BELT T5
23	1	EAA0328G15A	STEPPER MOTOR BIG
24	1	EAA0345G77A	SHEET OF LIGHT MODULE
25	1	EAA0357G99A	BELT TIGHTENING
26	1	EAC0087G03A	BOARD SUPPORT FOR REAR SCANNER
27	1	EAM0048G47A	TOOTHED PLATE T5 MACHINED
28	1	EAM0076G50A	MACHINED ASSY PULLEY
29	1	EAP0167G10A	OPTO SWITCH BOARD
30	1	EAS2128J03A	SUPPORT - COMPLETE INTERMEDIATE
31	1	EAS2128J13A	SUPPORT - SCANNER REAR DRIVE
32	1	EAS2128J15A	SUPPORT - SCANNER, REAR ASSY
33	1	EAS2128J17A	STROKE END - REAR SCANNER
34	2	1-9641	PLAIN WASHER D4mm

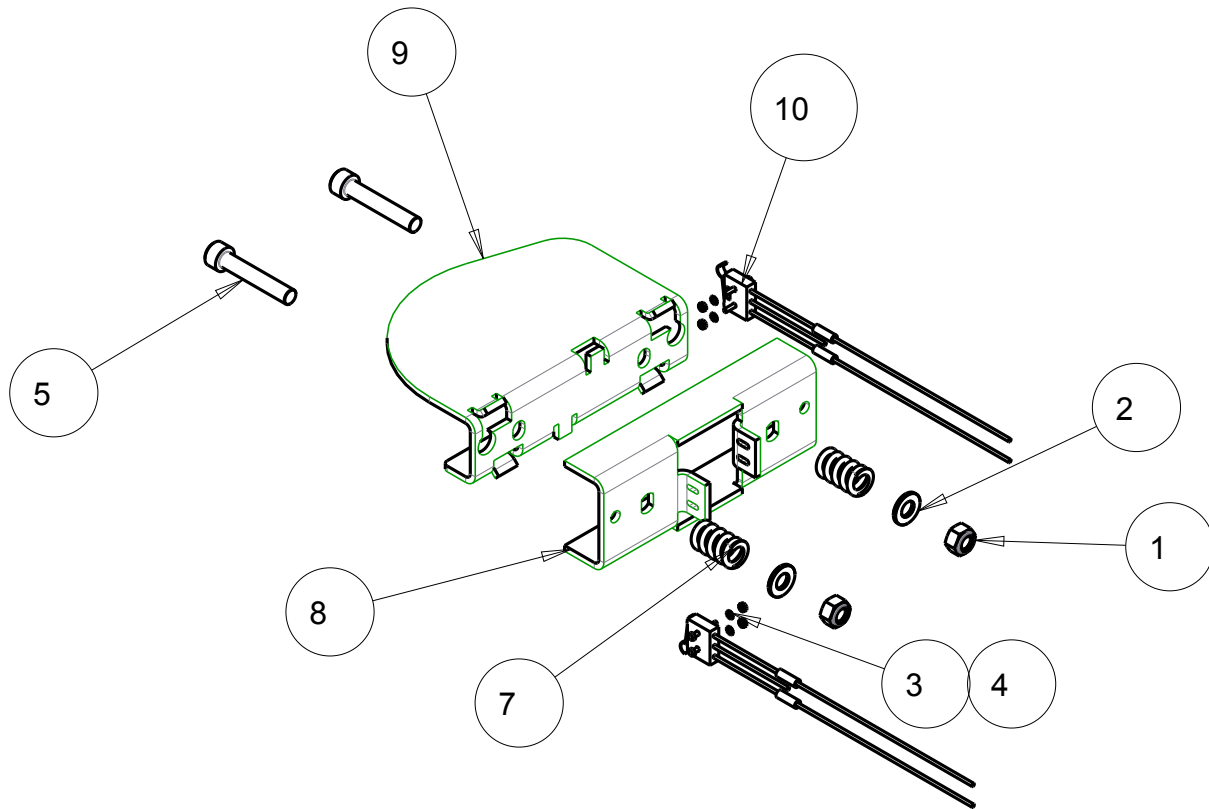
SAPE ASSEMBLY  
EAA0369J24A





SYM	REQ	PART NO	DESCRIPTION
15	1	EAS2128J18A	SUPPORT - CALIPER ROD
14	1	EAM0071G38A	BFH ARM FOR
13	1	EAM0053G08A	STANDARD. ROD SAPE, TRUCK
12	1	EAM0005D39A	BUSHING- OUTER SAPE ROD
11	1	EAM0005D38A	BUSHING-INNER SAPE ROD
10	1	EAL0349G31A	DISTANCE SCALE
9	1	EAC0058D11A	DISK-TOUCHING
8	1	1-17841	WASHER - D. 8X24
7	2	1-27903A	SCREW - M6 X 14MM FHMS, SKT DIN 7991
6	2	1-19552A	DOWELL PIN
5	2	1-17559A	NUTSERT - SELF CLINCH, M6 X 16,5MM
4	1	1-11926A	SELF TAP. SCREW PT WN1411 5X16 FL. ZINC
3	1	1-10468A	GAUGE SPRING
2	2	1-4577	RING-SNAP,25 X 1.20
1	2	1-3824	SCREW-SELF TAP,6 X 12MM

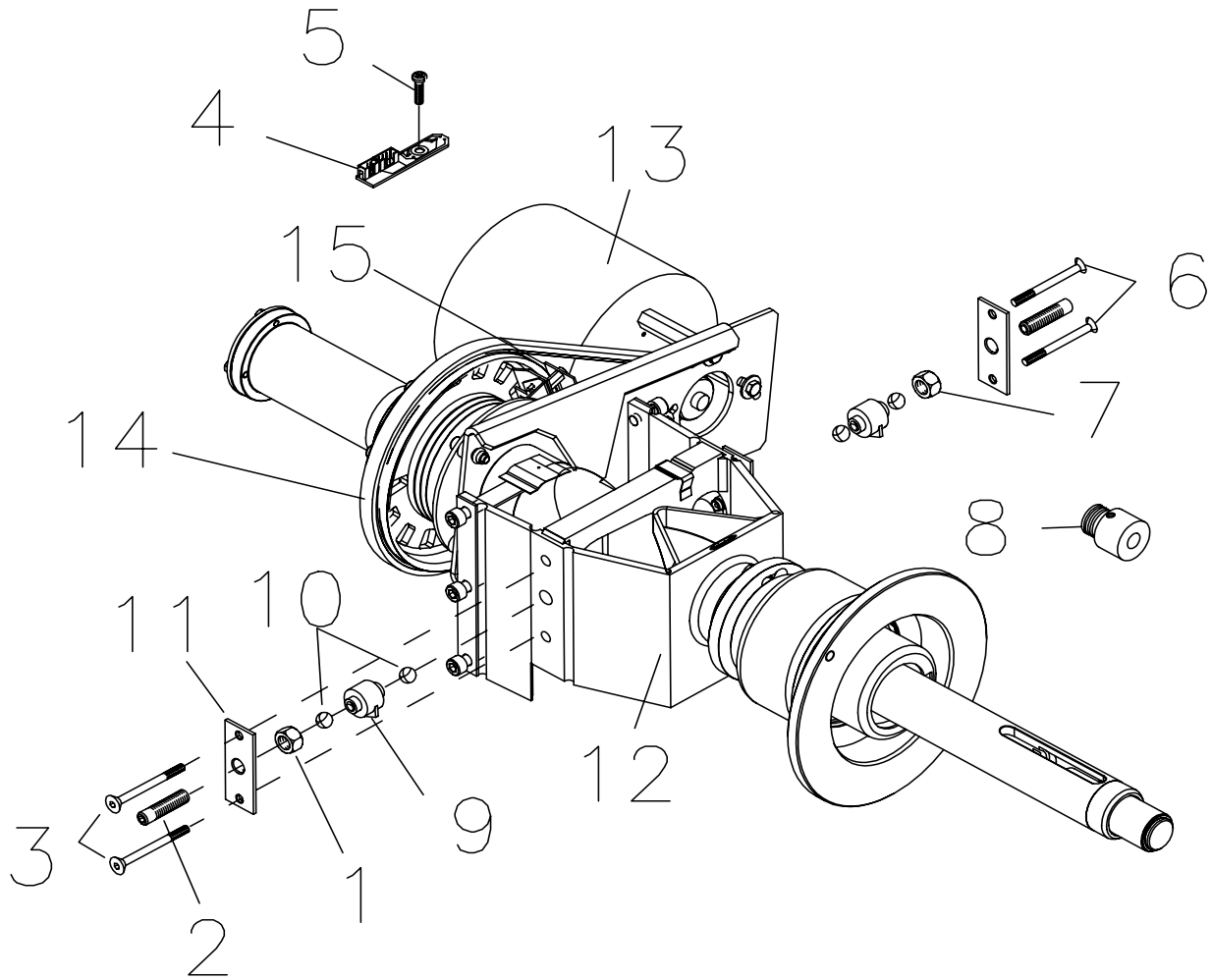
FOOT PEDAL ASSEMBLY  
EAA0369J82A



SYM	REQ	PART NO	DESCRIPTION
1	2	1-10033	NUT, HEX, M8
2	2	1-10041	WASHER D.8 UNI6592-69/DIN125
3	4	1-1048	WASHER, EXTERNAL SHAKEPROOF D2
4	4	1-11033	NUT - HEX, M2
5	2	1-18209	SHCS-M8 X 45
6	4	1-36606A	SCREW - M2 X 16MM, PAN HEAD PH ZINC
7	2	1-6668	COMPRESSION SPRING
8	1	EAS2113J93A	SUPPORT - BRAKE PEDAL
9	1	EAS2113J94A	FOOT PEDAL
10	2	EAW0233J46A	SWITCH ASSY - PC FOOTPEDAL

# VIBRATORY ASSEMBLY (POWER CLAMP)

EAA0363G57A



REF	QTY	PART NUMBER	DESCRIPTION
1	1	1-11833	NUT-HEX M 10 X 1 DIN 934
2	2	EAM0005D07A	SETSCREW - HEX SOCKET M 10 X 1
3	2	1-19903A	SCREW HEX SOCKET / COUNTERSUNK M 4 X 65
4	1	EAA0344G00A	ENCODER PCB
5	1	1-13004	SCREW PHILLIP PAN HD M 4 X 6
6	2	1-17403	SCREW HEX SOCKET / COUNTERSUNK M 4 X 25
7	1	1-4034	NUT - HEX M 10 X 1 DIN 439
8	1	EAM0005D08A	PULLEY SMALL
9	1	EAA0260D59A	TRANSDUCER
10	4	8-1144	BALL, STEEL
11	2	1-2967	PRETENSION SPRING
12	1	EAA0344G06A	VIBRATOR ASS'Y-MOTORIZED
13	1	EAA0266D29A	MOTOR 230V/50-60HZ
14	1	8-3531	MULTIRIB BELT 5 PJ 711 DIN 7867
15	1	EAP0201D20A	POWER CLAMP ENCODER
*	1	EAW0239D00A	RIBBON CABLE VIBRATORY







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