



Technische Serviceanleitung /
Technical Service Manual

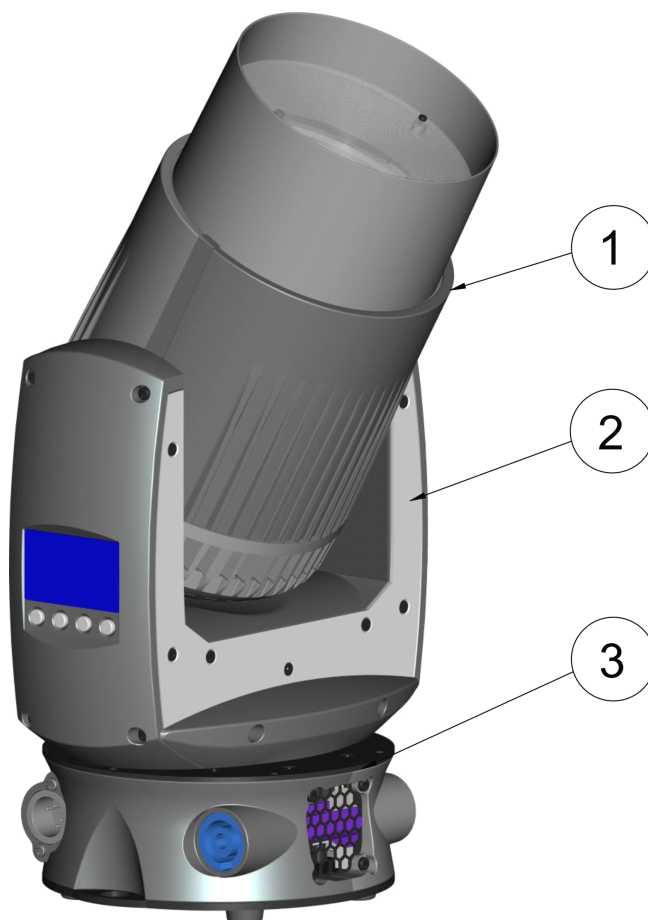
Rev1.2



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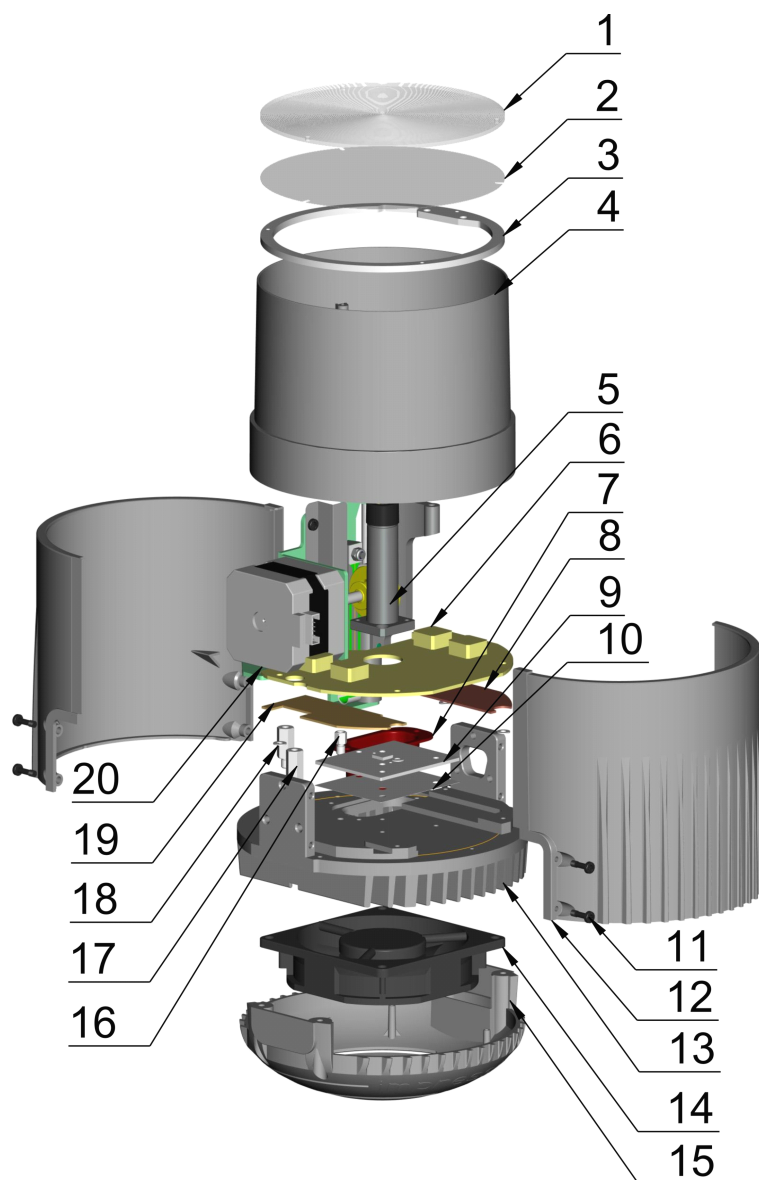
0. Overview



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Pos.	Code	Name	Quantity
1	207010891	FR1-HEAD	1
2	207010890	FR1-YOKE	1
3	207010838	FR1-BASE	1

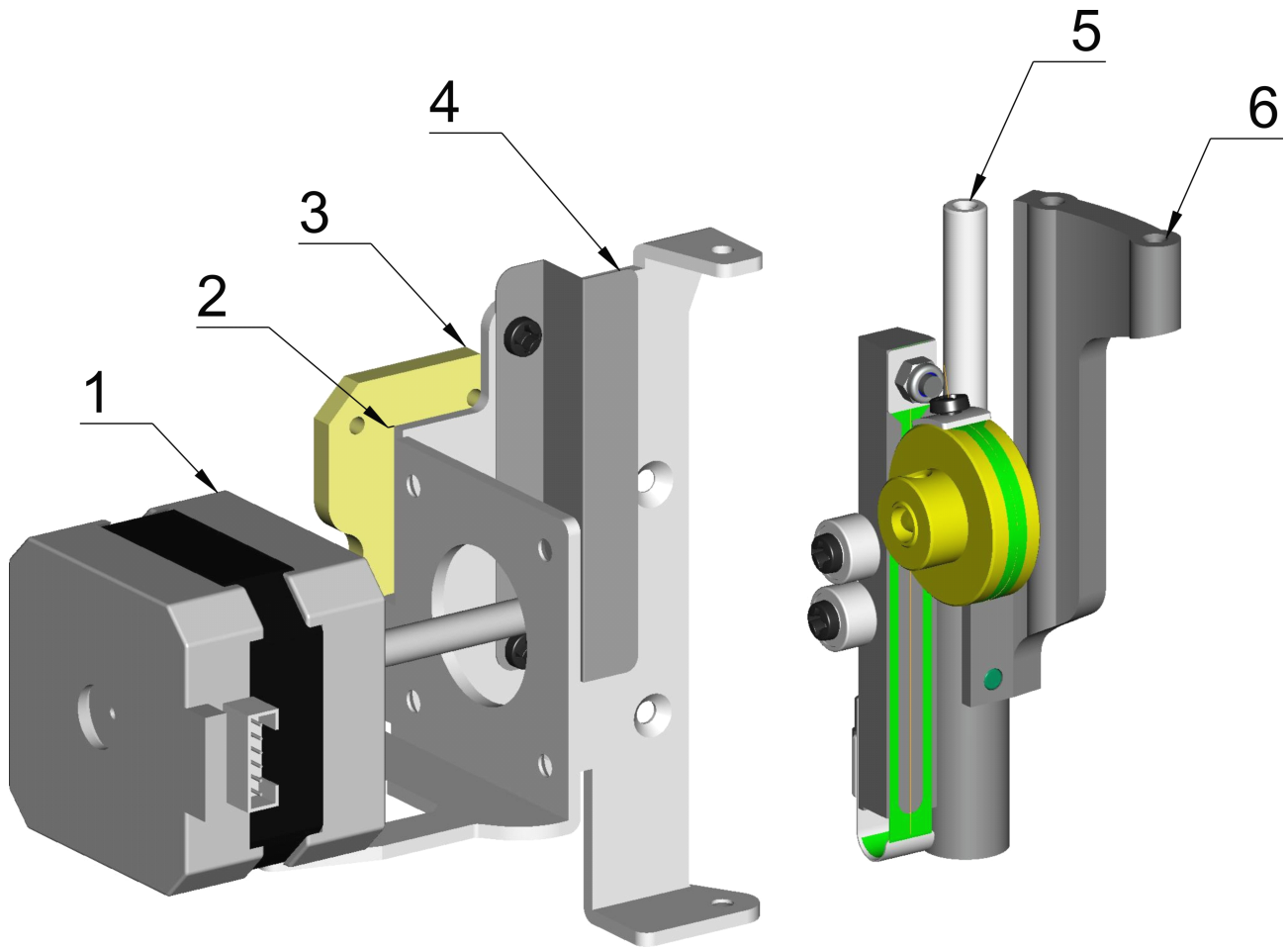
1. Head



1.Head

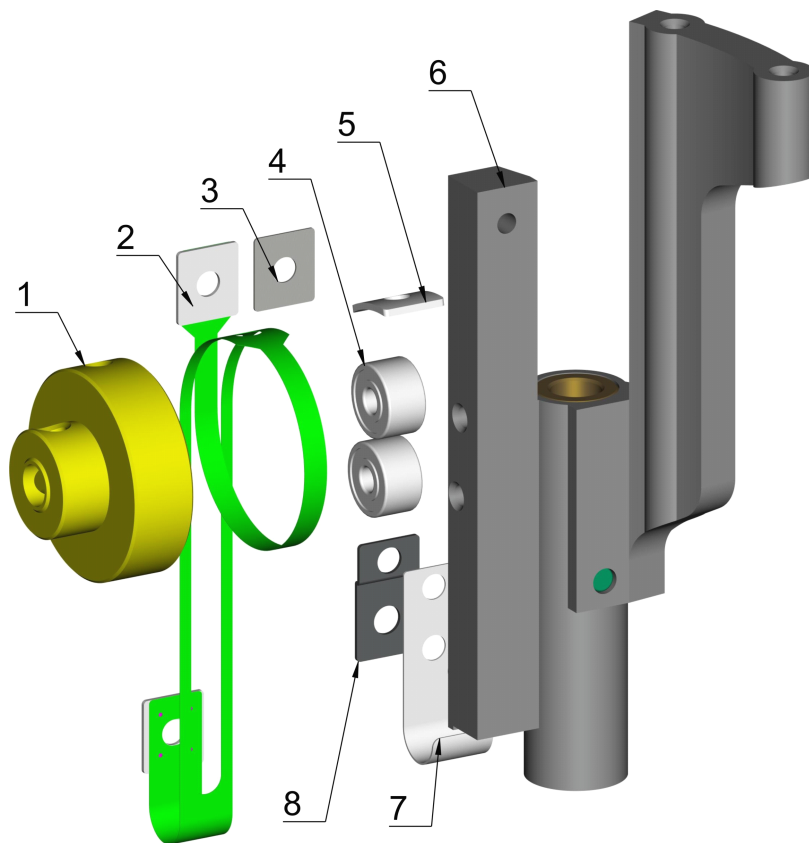
Pos.	Code	Name	Quantity
1	308030037	FROST-FR1	1
2	309020109	LENS-F50MM-FR1	1
3	204051150	LENS-HOLDER-AFTER-FR1	1
4	308010365	LENSHOLDER-AB1-FR1	1
5	207010841	PRIMARY-OPTICS-X4-FR1	1
6	314012030	FR1_LED_Drive_V1.0	1
7	308010248	DECKEL-ZOOM	1
8	308040021	DRIVER-ISOLATION-LEFT-TOP/56.47*27.87mm	1
9	314012029	FR1_LED_V1.0	1
10	308000321	EGRAF1205-50-4-42-2MM	1
11	303010252	SCREW PAN HEAD/CROSS DRIVES BLACK M3X10	8
12	308010369	HEAD-FRONT-COVER-FR1	2
13	304030773	HEATSINK-FR1	1
14	307060072	ME80202V1-000C-A99	1
15	308010370	HEAD-BACK-COVER-FR1	1
16	304030771	SPACERM4-5-5	1
17	304030770	SPACERM4-13-6	2
18	313020010	M3*6*0.5	4
19	308040019	DRIVER-ISOLATION-RIGHT-2	1
20	207010831	ZOOMDRIVER-MODULE-FR1	1

1.1.ZOOMDRIVER-MODULE-FR1



Pos.	Code	Name	Quantity
1	307050049	BJ42D15-06V10	1
2	204051151	ZOOMFRAME-FR1	1
3	304030776	FR1-SPINDLE-ZOOM-FR1	1
4	204051152	ZOOM-BEARING-HOLDER-FR1	1
5	304030774	FR1-LINEARSHAFT	1
6	207010905	FR1-ZOOM-SLIDER	1

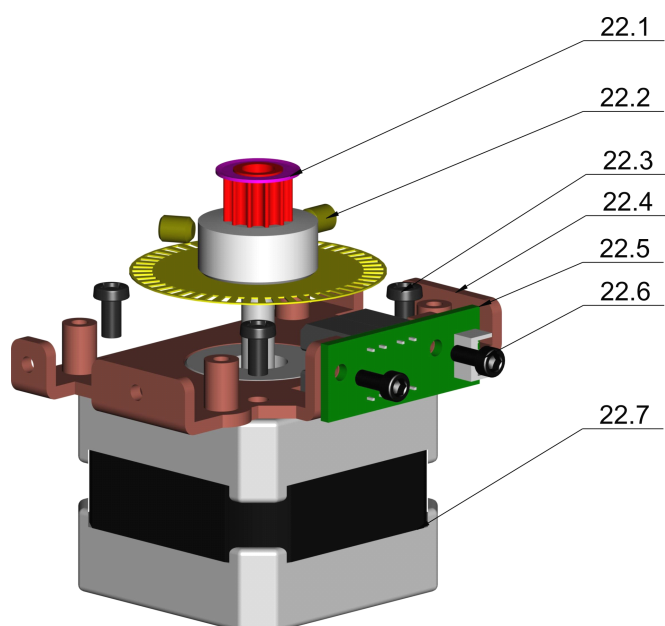
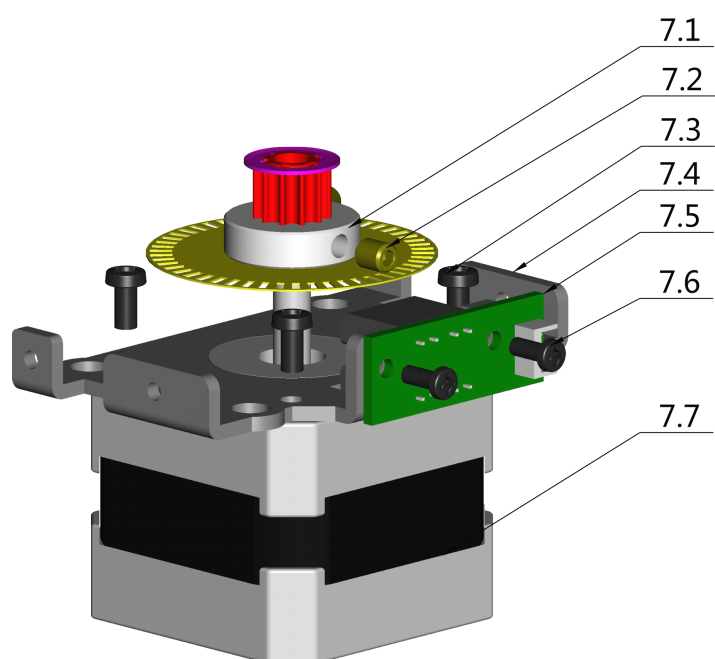
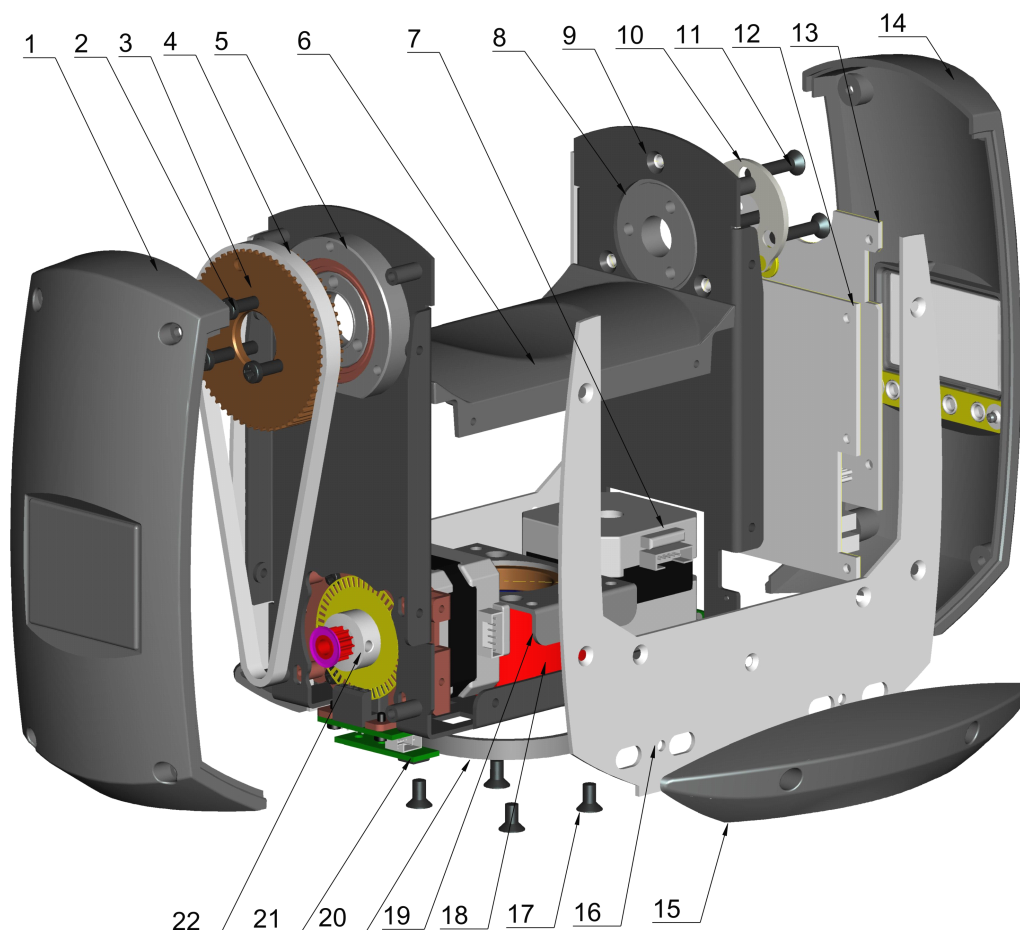
1.1.1 FR1-ZOOM-SLIDER



1.1.1 FR1-ZOOM-SLIDER

Pos.	Code	Name	Quantity
1	304030768	FR1-ZOOMSPINDLE	1
2	207010830	FR1-ZOOMBELT	1
3	308000333	ZOOMBAND-FR1	1
4	304010009	603ZZ	2
5	204051157	FOCUS-FIXIERSCHEIBE-FR1	1
6	207010906	ZOOMSLIDER-ALL-FR1	1
7	204050536	ZOOM-SPRING-X-BAR	1
8	204050633	ZOOM-SPRING-2-X-BAR	1

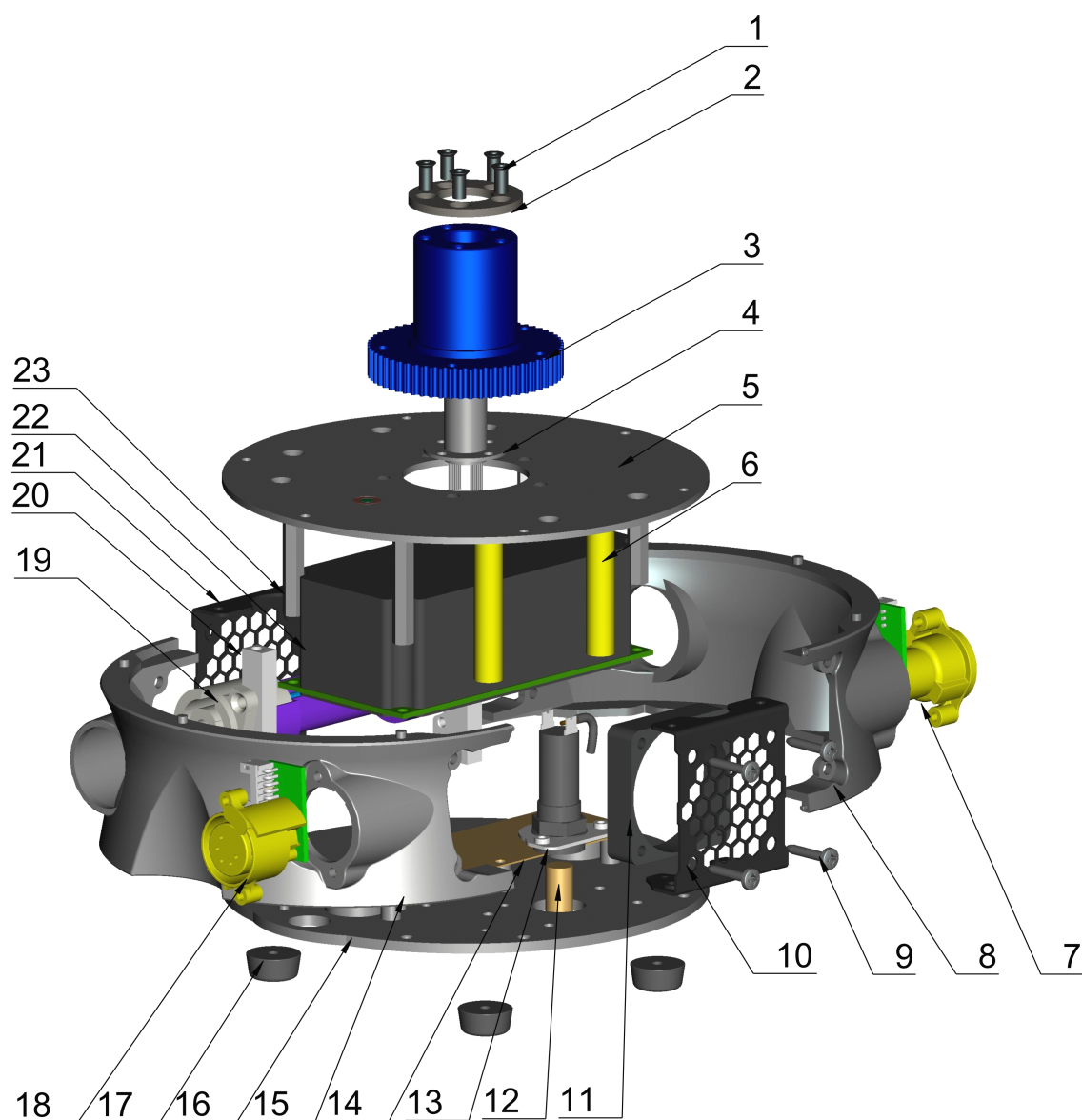
2.Arm



2. Arm

Pos.	Code	Name	Quantity
1	308010364	ARMCOVER-PLASTIC-LABLE-FR1	1
2	303010169	SCREW PAN HEAD/CROSS DRIVES BLACK M4X20	3
3	304030766	GEARWHEEL_HDT-FR1	1
4	308020032	BELT-HTD-3M-318-6	1
5	207010141	TILT-BEARINGBLOCK-ALL	1
6	308010277	RUNDBLENDE-X1	1
7	207010481	NEW-PAN-MOTOR-X1	1
7.1	304030032	RITZEL-TILT	1
7.2	303010243	MADENSCHRAUBE-M4X5	2
7.3	303010118	SCREW PAN HEAD/CROSS DRIVES BLACK M3X6	4
7.4	204050625	PAN-MOTORHOLDER-X1	1
7.5	306060055	FEED-PCB-BL	1
7.6	303010165	SCREW PAN HEAD/CROSS DRIVES BLACK M2-5X6	2
7.7	307050057	BJ42D15-06V09	1
8	207010892	TILT-BEARINGBLOCK-ALL-FR1	1
9	204051148	ARM-MAINFRAME-LOW-FR1	1
10	207010893	TILT-STOPPER-BLADE-ALL-FR1	1
11	303010151	SCREW FLAT HEAD/CROSS DRIVES M4X20	3
12	314012031	FR1_Motor_Drive_V1.0	1
13	314012032	FR1_Main_V1.1	1
14	207010484	ARMCOVER-PLASTIC-DISPLAY-ALL-X1	1
15	308010274	PLASTIKTEST-X1	2
16	204050622	SIDE-COVER-X1	2
17	303010159	SCREW SMALL FLAT HEAD/CROSS DRIVES M4X8	4
18	207010485	PAN-BEARINGBLOCK-ALL-X1	1
19	204050623	ARM-MAINFRAME-X1	1
20	308020033	BELT-HTD-3M-210-6	1
21	306060140	TILT-HALL-PCB-S1-ALL	1
22	207010486	TILT-DRIVE-X1	1
22.1	304030363	RITZEL-OMRON-POWERCON	1
22.2	303010243	MADENSCHRAUBE-M4X5	2
22.3	303010118	SCREW PAN HEAD/CROSS DRIVES BLACK M3X6	4
22.4	204050626	TILT-MOTORHOLDER-X1	1
22.5	306060055	FEED-PCB-BL	1
22.6	303010309	A CUP OF BLACK HEAD SCREW M2-5X6	2
22.7	307050057	BJ42D15-06V09	1

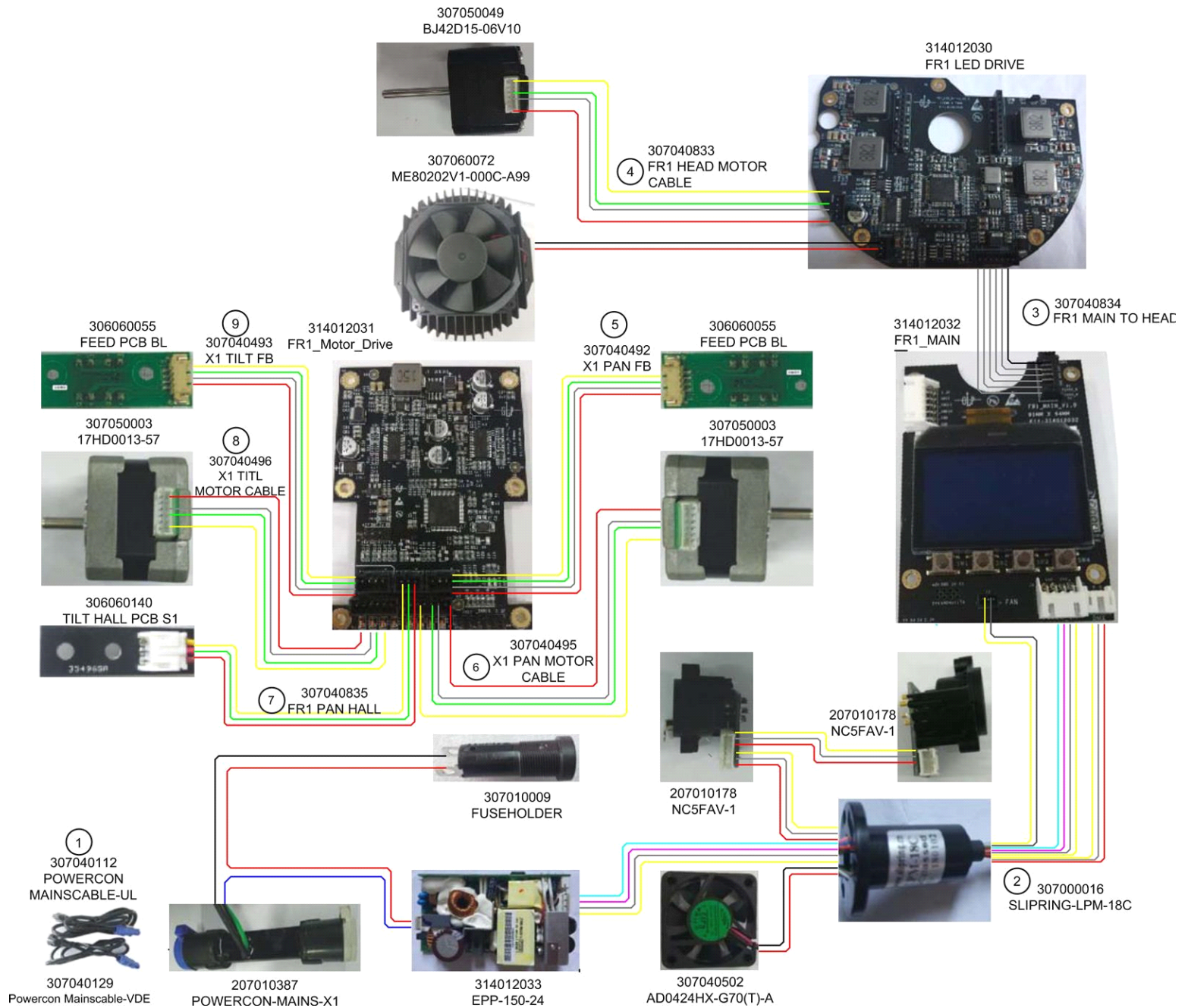
3.Base



3.Base

Pos.	Code	Name	Quantity
1	303010159	SCREW SMALL FLAT HEAD/CROSS DRIVES M4X8	4
2	204050040	PAN-SICHERUNG	1
3	304030778	PAN-SHAFT-SR-FR1	1
4	307000016	SLIPRING-LPM-18C	1
5	207010488	BASE-ACHSBLECH-ALL-X1	1
6	304030478	SPACER-BASE-49-X1	2
7	207010177	NC5MAV-1	1
8	308010272	BASE-PLASTIC-POWERCON-IN-X1	1
9	303040016	SELF TAPPING SCREW PAN HEAD/CROSS DRIVES 4X12	4
10	204050621	FANHOLDER-BASE-X1	1
11	307040502	AD0424HX-G70(T)-A	1
12	307010001	FUSE/T2A/250V/L=20mm	1
13	204050432	DIAN-BAN-POWERCON	1
14	204050618	ABDECKBLECH-CLAMPHALTER-X1	1
15	308010273	BASE-PLASTIC-POWERCON-OUT-X1	1
16	204050619	BASE-BODENBLECH-X1	1
17	308000076	RICHCO-SOF-15129	4
18	207010178	NC5FAV-1	1
19	207010487	POWERCON-MAINS-MODULE-X1	1
20	304030472	POWERCON-HOLDER-X1	2
21	204050639	FANHOLDER-BASE-X1-2	1
22	314012033	EPP-150-24	1
23	304030777	SPACER-M3X30.5	4

4. Wiring Diagram



4.Wiring Diagram

Pos.	Code	Name	Quantity
1	307040112/129	POWERCON MAINSCABLE-UL Powercon Mainscable-VDE	1
2	307000016	SLIPRING-LPM-18C	1
3	307040834	FR1 MAIN TO HEAD	1
4	307040833	FR1 Head motor cable	1
5	307040492	X1 PAN FB	1
6	307040495	X1 PAN MOTOR CABLE	1
7	307040835	FR1 PAN hall	1
8	307040496	X1 TILT MOTOR CABLE	1
9	307040493	X1 TILT FB	1