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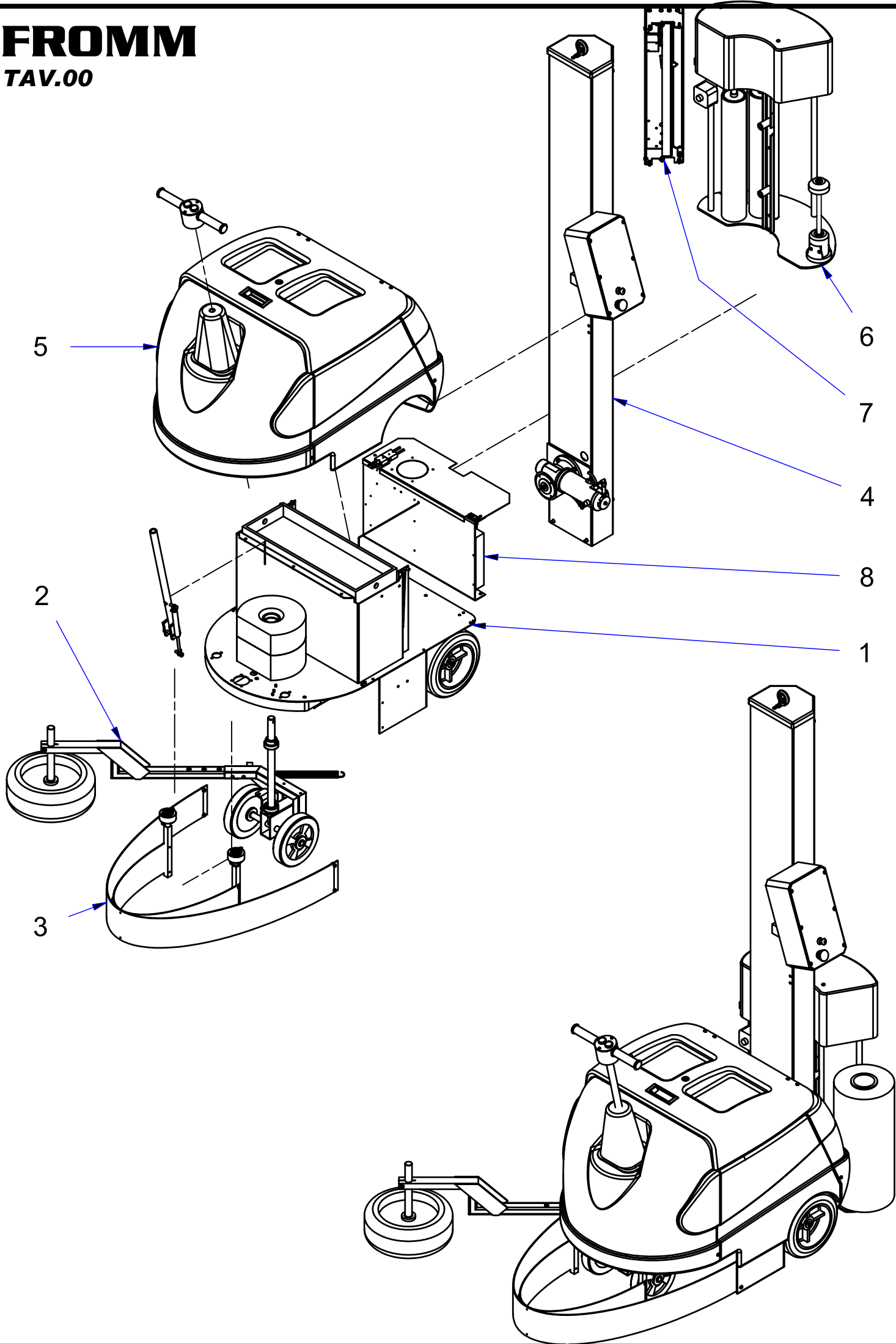
Parts List

**ROBOT Stretch Wrapping Machine's
FR230 / FR250 / FR270 / FR290
Version 01 and 02 machines
Version 03 List**

SPARE-PARTS ROBOT.V02.EN03/ epennings / © 01/07

FROMM

TAV.00

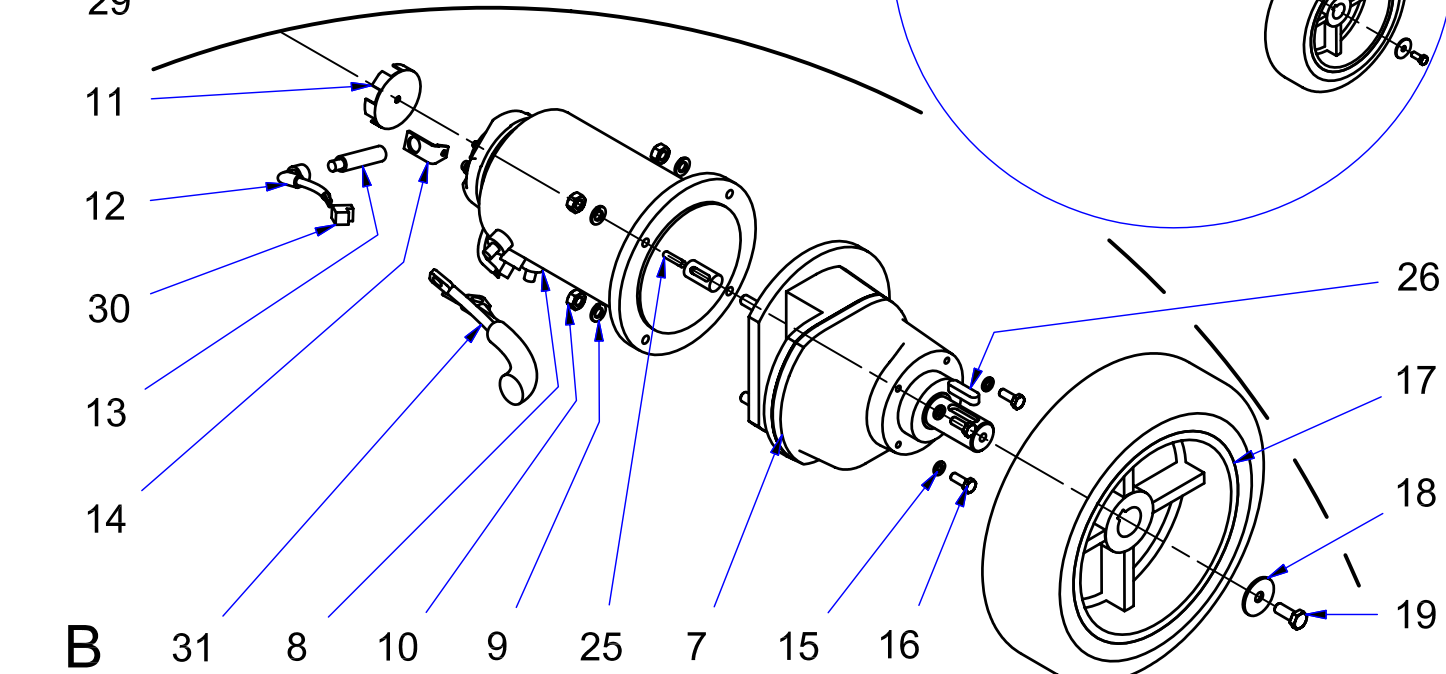
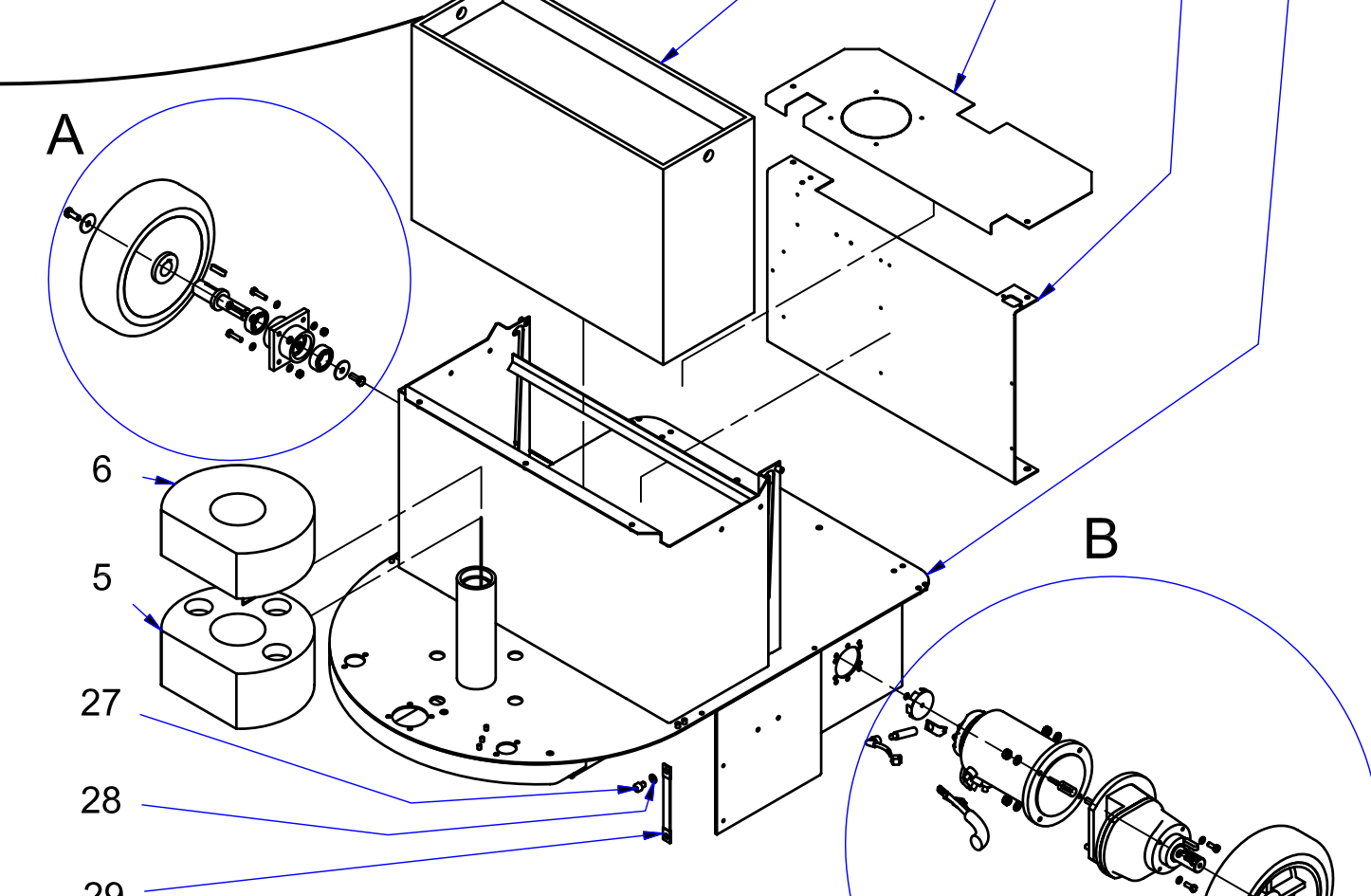
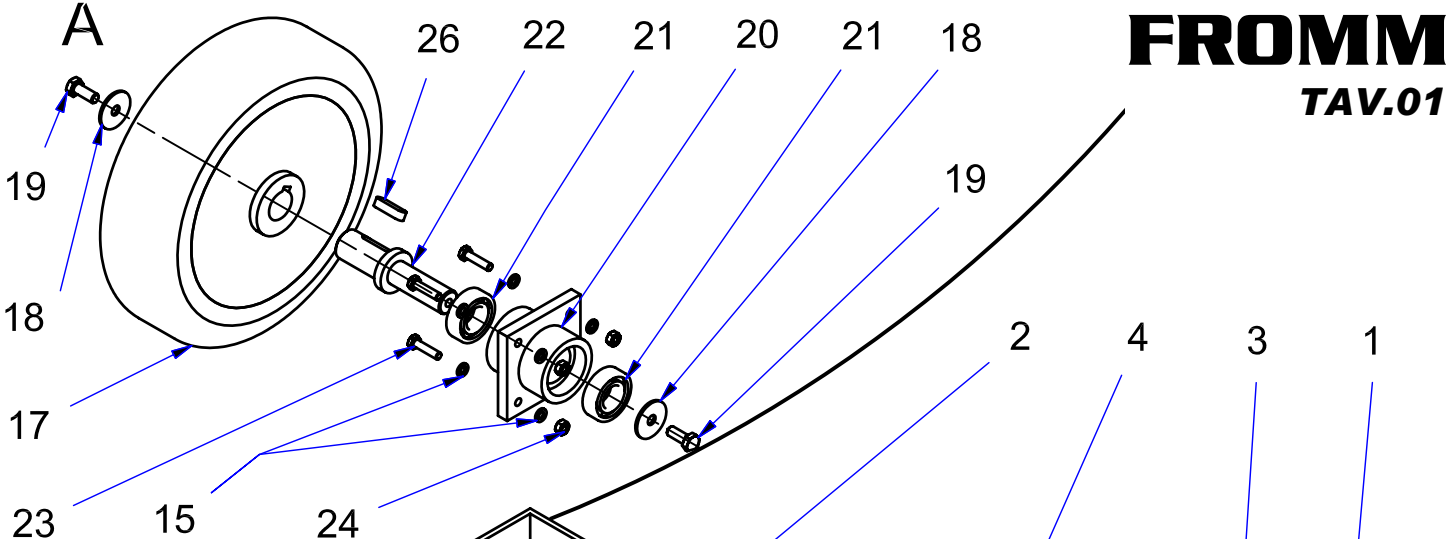


Overview Layout drawings

Pos.	Quantity	Drawing	Description
1	1	TAV.01	MACHINE BASE
2	1	TAV.02	RUDDER UNIT
3	1	TAV.03	EMERGENCY DEVICE
4	1	TAV.04	MAST UNIT
5	1	TAV.05	CARTER GROUP
6	1	TAV.06.1	REEL HOLDING CARRIAGE FR250
6	1	TAV.06.2	REEL HOLDING CARRIAGE FR270
6	1	TAV.06.3	REEL HOLDING CARRIAGE FR290
6	1	TAV.06.4	REEL HOLDING CARRIAGE FR230
7	1	TAV.07	CUTTING DEVICE (Also drawing 16.8246 - 16.8255 - 16.8256)
8	1	TAV.08	ELECTRICAL CABINET

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TAV.01



A

B

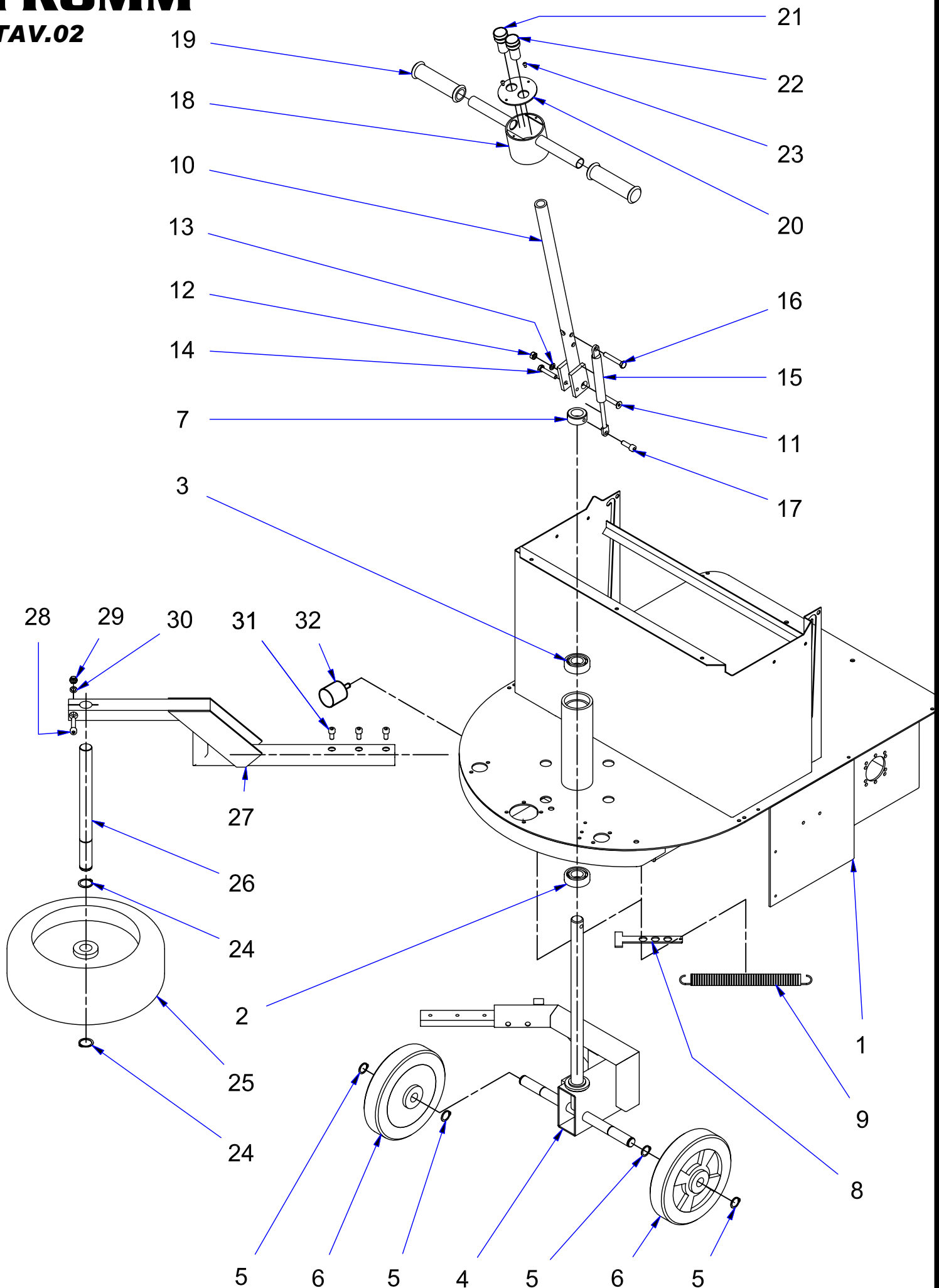
B

Base unit Robot TAV.01

Part no.	RIF	Description	Specification	Quantity
FR2.1001	1	Base unit	BASE UNIT FROMM ROBOT	1
FR2.1002	2	Battery	BATTERY 24V 110 A/H	1
FR2.1003	2	Battery	BATTERY 24V 130 A/H	1
FR2.1004	2	Battery	BATTERY 24V 100 A/H	1
FR2.1005	2	Battery	BATTERY 12V 120 A/H	2
FR2.1006	3	Components plate	SUPPORT FOR ELECT. COMP.	1
FR2.1007	4	Subassembly	SUPPORT OPENING CARTER	1
FR2.1008	5	Counterweight	COUNTERWEIGHT 33 Kg	1
FR2.1009	6	Counterweight	COUNTERWEIGHT 28 Kg	1
FR2.1010	7	Reducer	TRACTION REDUCER	1
FR2.1011	8	Motor	TRACTION MOTOR	1
N1.6250	9	Washer	SPLIT WASHER	4
N1.5106	10	Nut	NUT DIN 934 - M8	5
FR2.1012	11	Wheel	PHONIC WHEEL	1
N5.2819	12	Connector	CONNECTOR FOR SENSOR CD 12M/AA-020C1	1
N5.2542	13	Sensor	PROXIMITY SENSOR AM6/AP-IH M12 NO	1
FR2.1015	14	Bracket	MOTOR SENSOR STIRRUP	1
N1.6163	15	Washer	PLAIN WASHER DIN 125 - 6,4 x 12	16
N1.1520	16	Screw	HEXAGON HEAD SCREW DIN 933 - M6 x 16	4
FR2.1016	17	Wheel	TRACTION WHEEL D.260	2
N1.6174	18	Washer	PLAIN WASHER DIN 9021 - 8,4 x 24	3
N1.1524	19	Bolt	HEXAGON HEAD SCREW DIN 933 - M8 x 20	3
FR2.1017	20	Flange	IDLE WHEEL FLANGE	1
N31.1107	21	Ball bearing	BALLBEARING 6004 2RS 20 x 42 x 12	2
FR2.1019	22	Shaft	IDLE WHEEL SHAFT	1
N1.1523	23	Screw	HEXAGON HEAD SCREW DIN 933 - M6 x 25	4
N1.5102	24	Nut	NUT DIN 934 - M6	8
N2.3305	25	Key	PARALLEL KEY DIN 6885 - A 5 x 5 x 20	1
N2.3349	26	Key	PARALLEL KEY DIN 6885 - A 8 x 7 x 30	2
N12.1116	27	Bolt	CYLINDRICAL HEAD CAP SCREW DIN 912 - M8 x 10	1
N1.6164	28	Washer	PLAIN WASHER DIN 125 - 8,4 x 16	1
FR2.1133	29	Cable	COPPER GROUND CABLE	1
FR2.1134	30	Connector	CONNECTOR 2 POLES	1
FR2.1135	31	Cable	TRACTION MOTOR CABLE	1

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TAV.02

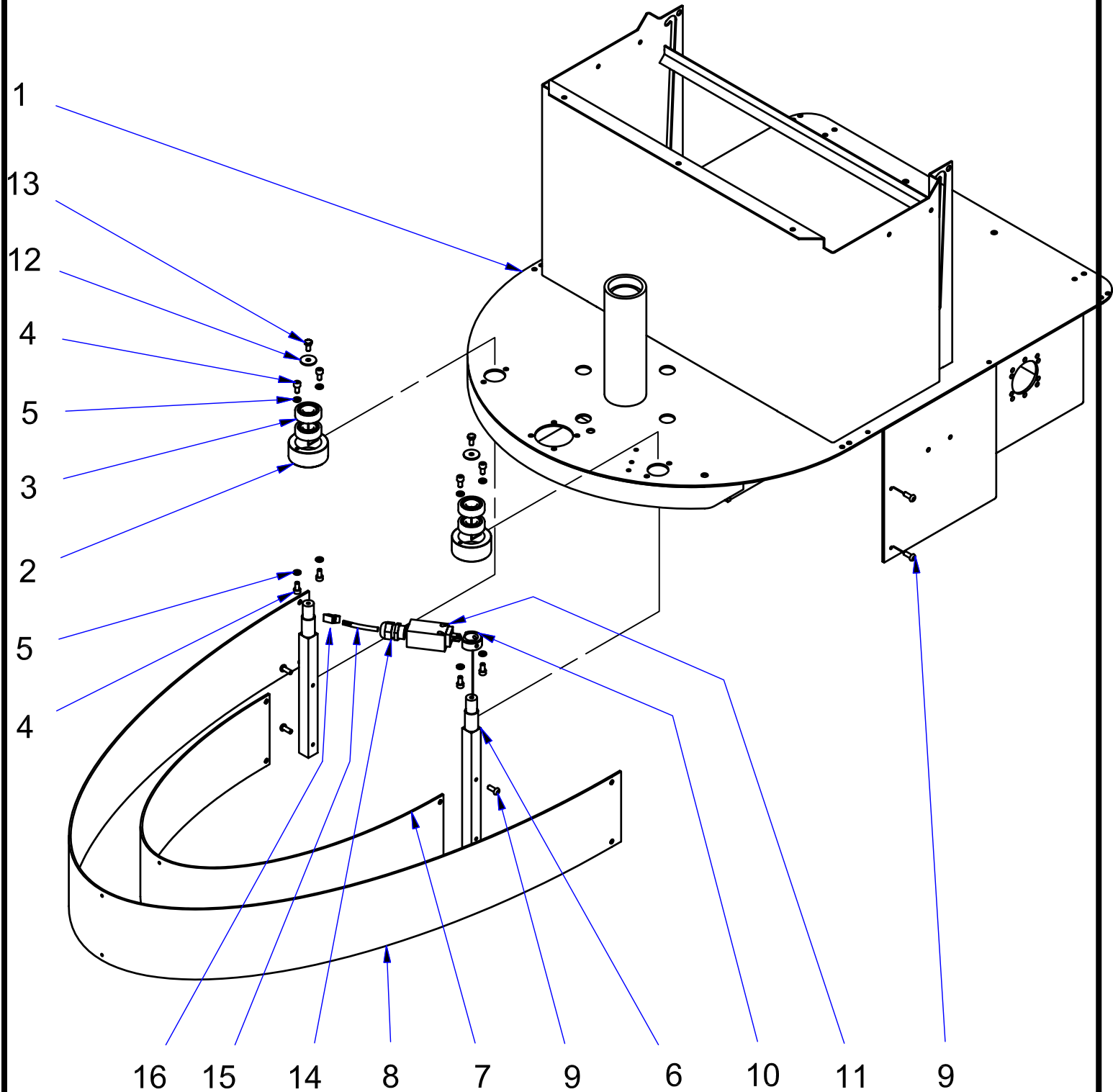


Steer unit Robot TAV.02

Part no.	RIF	Description	Specification	Quantity
FR2.1001	1	Base unit	BASE UNIT FROMM ROBOT	1
FR2.1020	2	Ball bearing	BALLBEARING - 7205 B 25 x 52 x 15	1
N31.1106	3	Ball bearing	BALLBEARING 6205 2RS 25 x 52 x 15	1
FR2.1022	4	Feeler	RUBBER FEELER	1
N2.1108	5	Retaining ring	ELASTIC RING DIN 471 D.20	4
FR2.1023	6	Wheel	RUBBER WHEEL	2
N7.2207	7	Metal ring	BLOCKING RING DIN 705 SHAPE C D. 25	2
FR2.1024	8	Subbassembly	FEELER SPRING TURNBUCKLE	1
FR2.1025	9	Spring	FEELER SPRING	1
FR2.1026	10	Steer Pipe	Feeler SUPERIOR RUBBER PIVOT	1
N1.2178	11	Bolt	SOCKET CTRS. HD SCREW DIN 7991-A- M8 x 50	1
N1.5106	12	Nut	NUT DIN 934 - M8	1
N1.6164	13	Washer	PLAIN WASHER DIN 125 - 8,4 x 16	7
N1.1436	14	Bolt	HEXAGON HEAD SCREW DIN 931 - M8 x 40	1
FR2.1027	15	Gas spring	GAS SPRING	1
N1.1517	16	Bolt	HEXAGON HEAD SCREW DIN 933 - M8 x 50	1
N11.1173	17	Bolt	CYLINDRICAL HEAD CAP SCREWS DIN 912 M8 x 25	1
FR2.1028	18	Steer	SUPERIOR RUBBER FEELER	1
FR2.1029	19	Subbassembly	HANDLE GRIP	2
FR2.1030	20	Subbassembly	DISK RUBBER BUTTON	1
N51.2258	21	Button	BLACK BUTTON D.22 XB7EA21 TELEM.	1
FR2.1032	22	Button	GREEN BUTTON	1
N1.1213	23	Screw	BUTTON HEAD SCREW ISO 7380 - M4 x 8	2
N2.1105	24	Retaining ring	ELASTIC RING DIN 471 D.25	2
FR2.1033	25	Wheel	FEELER WHEEL	1
FR2.1034	26	Shaft	FEELER WHEEL SHAFT	1
FR2.1035	27	Bracket	FEELER WHEEL SUPPORT	2
N11.1103	28	Bolt	CYLINDRICAL HEAD CAP SCREWS DIN 912 M8 x 40	1
N1.5106	29	Nut	NUT DIN 934 - M8	5
N1.6164	30	Washer	PLAIN WASHER DIN 125 - 8,4 x 16	1
N11.1102	31	Bolt	CYLINDRICAL HEAD CAP SCREWS DIN 912 M8 x 16	3
FR2.1036	32	Rubber stop	ANTIVIBRATING FOOTSE	1

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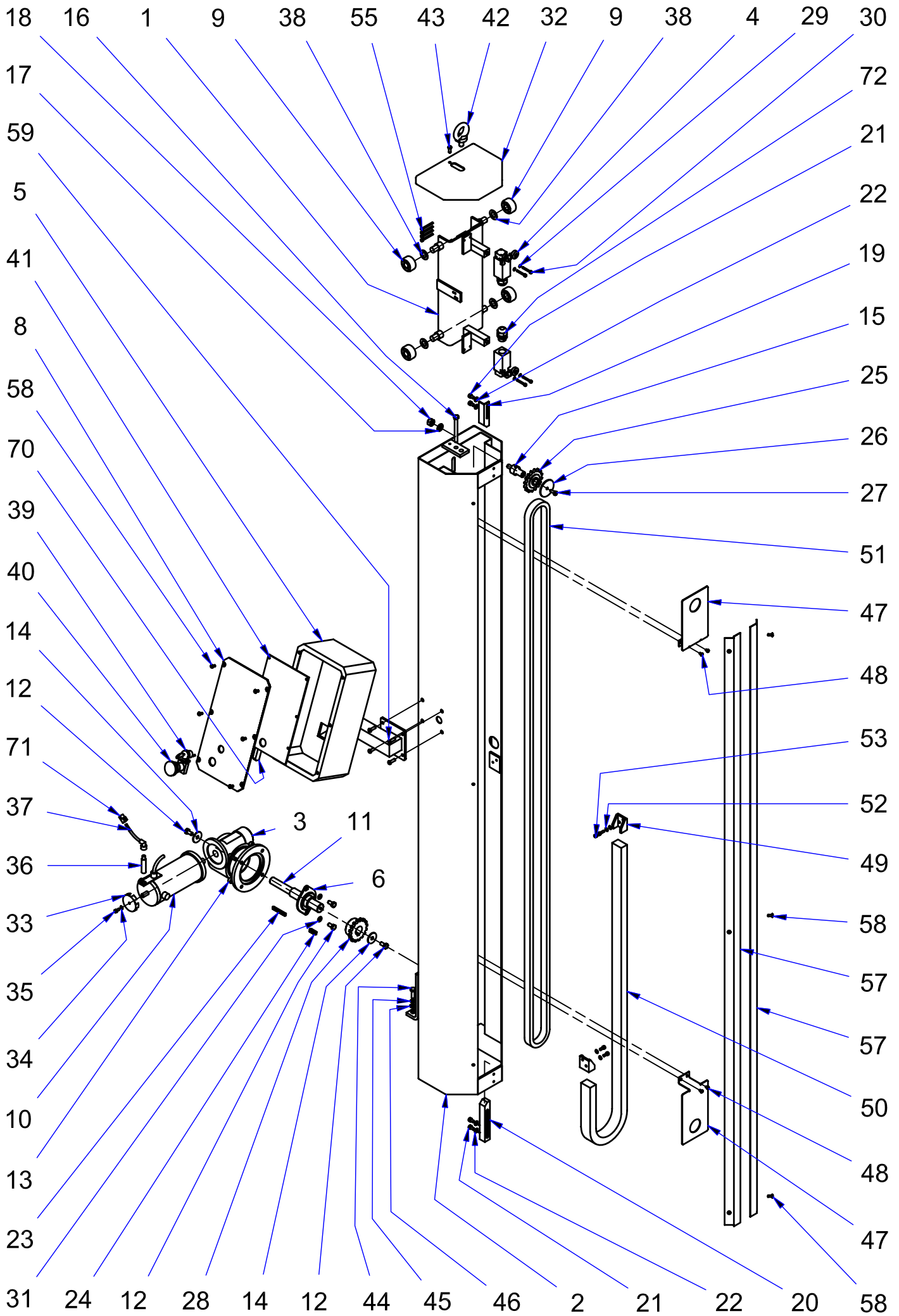
TAV.03



Emergency unit Robot TAV.03

Part no.	RIF	Description	Specification	Quantity
FR2.1001	1	Base unit	BASE UNIT FROMM ROBOT	1
FR2.1037	2	Flange	EMERGENCY PIN FLANGE	2
N31.1105	3	Ball bearing	BALLBEARING 6203 2RS 17 x 40 x 12	4
N11.1146	4	Screw	CYLINDRICAL HEAD CAP SCREWS DIN 912 M6 x 12	8
N1.6163	5	Washer	PLAIN WASHER DIN 125 - 6,4 x 12	8
FR2.1039	6	Emergency pin	EMERGENCY PIN	2
FR2.1040	7	Guard	SHORT SHOCKPROOF GUARD	1
FR2.1041	8	Guard	LONG SHOCKPROOF GUARD	1
N1.1220	9	Screw	BUTTON HEAD SCREW ISO 7380 - M6 x 16	8
FR2.1042	10	Bracket	CAM LIMIT SWITCH EMERGENCY	1
FR2.1043	11	Limit Switch	MICROSWITCH	1
N1.6169	12	Washer	PLAIN WASHER DIN 125 - 6,4 x 18	2
N1.1573	13	Screw	HEXAGON HEAD SCREW DIN 933 - M6 x 12	2
N5.3327	14	Cable gland	CABLE GLAND SKINTOP PG13 D.C.V. 5/12	1
N5.3184	15	Cable	CABLE	1
FR2.1134	16	Connector	CONNECTOR	1

FROMM TAV.04



Mast unit Robot 2000mm TAV.04

Part no.	RIF	Description	Specification	Quantity
FR2.1044	1	Carriage	PAINTED SPOOL CARRIAGE	1
FR2.1045	2	Mast	CARRIAGE GUIDE SHAFT H=2000	1
FR2.1048	3	Reductor	RID. VSF RMI 40 FL-R.1/80 PAM63 B14	1
FR2.1049	4	Switch	MICRO SWITCH	2
FR2.1123	5	Cabinet	ELECTRICAL CABINET	1
FS2.1135	6	Support	SWINGING SUPPORT SPBFL 205	1
FR2.1050	8	O.P. Pannel	CONTROL PANEL	1
FS2.1016	9	Wheel	CARRIAGE GUIDE WHEEL	4
FR2.1051	10	Motor	MOTOR 24 VCC 280 W 1850 RPM	1
FR2.1052	11	Shaft	PINION CARRIAGEMOTOR	1
N1.1507	12	Bolt	HEXAGON HEAD SCREW DIN 933 - M8 x 16	4
N11.1102	13	Bolt	CYLINDRICAL HEAD CAP SCREWS DIN 912 M8 x 16	4
N1.6176	14	Washer	MUDWING REPAIR WASHER M8 x 35 (8,4 x 35 x 1,5)	
FS2.1012	15	Shaft	PIN FOR CHAIN REGULATION	1
N1.1437	16	Bolt	HEXAGON HEAD SCREW DIN 931 - M8 x 80	1
N1.6161	17	Washer	PLAIN WASHER DIN 125 - 10.5 x 21	1
N1.5108	18	Nut	NUT DIN 934 - M10	1
FR2.1053	19	Bracket	TOP LIMIT SWITCH CAM	1
FR2.1054	20	Bracket	BOTTOM LIMIT SWITCH CAM	1
N11.1121	21	Screw	CYLINDRICAL HEAD CAP SCREWS DIN 912 M6 x 10	4
N1.6163	22	Washer	PLAIN WASHER DIN 125 - 6,4 x 12	4
N2.3306	23	Key	PARALLEL KEY DIN 6885 - A 6 x 6 x 50	1
N2.3314	24	Key	PARALLEL KEY DIN 6885 - A 8 x 7 x 25	1
N4.7243	25	Chain Wheel	CHAIN REGULATOR Z16 1/2	1
FS2.1017	26	Ring	IDLE PINION WASHER	1
N1.1520	27	Screw	HEXAGON HEAD SCREW DIN 933 - M6 x 16	1
FS2.1013	28	Chain Wheel	PINION MOTOR P.1/2X5/16 Z16	1
N1.6181	29	Washer	PLAIN WASHER DIN 125 - 4,3 x 9	4
N11.1174	30	Screw	CYLINDRICAL HEAD CAP SCREWS DIN 912 M4 x 30	4
N1.6164	31	Washer	PLAIN WASHER DIN 125 - 8,4 x 16	2
FR2.1056	32	Cover	SHAFT COVERAGE CARTER	1
FR2.1012	33	Wheel	MOTOR PHONIC WHEEL	1
N1.6167	34	Washer	PLAIN WASHER DIN 125 - 5,3 x 10	1
N11.1118	35	Screw	CYLINDRICAL HEAD CAP SCREWS DIN 912 M5 x 10	1
N5.2542	36	Sensor	PROXIMITY SENSOR AM6/AP-IH M12 NO	1
N5.2819	37	Connector	CONNETECTOR FOR SENSOR CD 12M/AA-020C1	1
N3.4307	38	Distance	THRUST BLOCK AS 1528	4
FR2.1138	39	Switch selector	KEY SWITCH SELECTOR	1
N51.2264	40	Emergency button	EMERGENCY BUTTON BUTTON DIAMETER.40 ER502320 ERSCE	1
FR2.1059	41	PLC Control board	MAIN POWER BOARD	1
N1.4404	42	Eye bolt	LIFTING EYE BOLTS M12	1
N1.1220	43	Screw	BUTTON HEAD SCREW ISO 7380 - M6 x 16	1
N1.1557	44	Bolt	HEXAGON HEAD SCREW DIN 933 - M8 x 25	4
N1.6231	45	Washer	SPLIT WASHER DIN 7980 - A8	4
N1.6164	46	Washer	PLAIN WASHER DIN 125 - 8,4 x 16	4
FR2.1061	47	Cover	CHAIN PROTECTION CARTER	2
N1.1711	48	Screw	SCREW DIN 7981 - 4.2 x 9.5	4
N5.3739	49	Bracket	SUPPORT FOR CABLE CHAIN MODEL 1025.12P	1
FR2.1063	50	Cable chain	CABLE CHAIN MOD. 10025.038.044 MAGLIE ALBERO 2000 MM	1
FR2.1066	51	Chain	NEUTRAL CHAIN 1/2X5/16 P.292	1
N1.6167	52	Washer	PLAIN WASHER DIN 125 - 5,3 x 10	4
N11.1147	53	Screw	CYLINDRICAL HEAD CAP SCREWS DIN 912 M5 x 16	2
N11.1101	54	Screw	CYLINDRICAL HEAD CAP SCREWS DIN 912 M5 x 12	2
N12.1112	55	Screw	CYLINDRICAL HEAD CAP SCREW DIN 912 - M4 x 40	4
N1.5124	56	Nut	NUT DIN 934 - M4	4
FR2.1069	57	Chain cover	GUIDE SHAFT CARTER H=2000	2

Mast unit Robot 2000mm TAV.04

Part no.	RIF	Description	Specification	Quantity
N1.1218	58	Screw	BUTTON HEAD SCREW ISO 7380 - M5 x 12	12
N1.1222	59	Screw	BUTTON HEAD SCREW ISO 7380 - M6 x 20	4

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N51.2265	70	Contact	CONTACT NC ER520810 ERSCE	1
FR2.1134	71	Connector	CONNECTOR	1
N5.3327	72	Cable gland	CABLE GLAND SKINTOP PG13 D.C.V. 5/12	2

Mast unit Robot 2500mm TAV.04

Part no.	RIF	Description	Specification	Quantity
FR2.1044	1	Carriage	PAINTED SPOOL CARRIAGE	1
FR2.1046	2	Mast	CARRIAGE GUIDE SHAFT H 2500	1
FR2.1048	3	Reductor	RID. VSF RMI 40 FL-R.1/80 PAM63 B14	1
FR2.1049	4	Switch	MICRO SWITCH	2
FR2.1123	5	Cabinet	ELECTRICAL CABINET	1
FS2.1135	6	Support	SWINGING SUPPORT SPBFL 205	1
FR2.1050	8	O.P. Pannel	CONTROL PANEL	1
FS2.1016	9	Wheel	CARRIAGE GUIDE WHEEL	4
FR2.1051	10	Motor	MOTOR 24 VCC 280 W 1850 RPM	1
FR2.1052	11	Shaft	PINION CARRIAGEMOTOR	1
N1.1507	12	Bolt	HEXAGON HEAD SCREW DIN 933 - M8 x 16	4
N11.1102	13	Bolt	CYLINDRICAL HEAD CAP SCREWS DIN 912 M8 x 16	4
N1.6176	14	Washer	MUDWING REPAIR WASHER M8 x 35 (8,4 x 35 x 1,5)	2
FS2.1012	15	Shaft	PIN FOR CHAIN REGULATION	1
N1.1437	16	Bolt	HEXAGON HEAD SCREW DIN 931 - M8 x 80	1
N1.6161	17	Washer	PLAIN WASHER DIN 125 - 10.5 x 21	1
N1.5108	18	Nut	NUT DIN 934 - M10	1
FR2.1053	19	Bracket	TOP LIMIT SWITCH CAM	1
FR2.1054	20	Bracket	BOTTOM LIMIT SWITCH CAM	1
N11.1121	21	Screw	CYLINDRICAL HEAD CAP SCREWS DIN 912 M6 x 10	4
N1.6163	22	Washer	PLAIN WASHER DIN 125 - 6,4 x 12	4
N2.3306	23	Key	PARALLEL KEY DIN 6885 - A 6 x 6 x 50	1
N2.3314	24	Key	PARALLEL KEY DIN 6885 - A 8 x 7 x 25	1
N4.7243	25	Chain Wheel	CHAIN REGULATOR Z16 1/2	1
FS2.1017	26	Ring	IDLE PINION WASHER	1
N1.1520	27	Screw	HEXAGON HEAD SCREW DIN 933 - M6 x 16	1
FS2.1013	28	Chain Wheel	PINION MOTOR P.1/2X5/16 Z16	1
N1.6181	29	Washer	PLAIN WASHER DIN 125 - 4,3 x 9	4
N11.1174	30	Screw	CYLINDRICAL HEAD CAP SCREWS DIN 912 M4 x 30	4
N1.6164	31	Washer	PLAIN WASHER DIN 125 - 8,4 x 16	2
FR2.1056	32	Cover	SHAFT COVERAGE CARTER	1
FR2.1012	33	Wheel	MOTOR PHONIC WHEEL	1
N1.6167	34	Washer	PLAIN WASHER DIN 125 - 5,3 x 10	1
N11.1118	35	Screw	CYLINDRICAL HEAD CAP SCREWS DIN 912 M5 x 10	1
N5.2542	36	Sensor	PROXIMITY SENSOR AM6/AP-IH M12 NO	1
N5.2819	37	Connector	CONNETECTOR FOR SENSOR CD 12M/AA-020C1	1
N3.4307	38	Distance	THRUST BLOCK AS 1528	4
FR2.1138	39	Switch selector	KEY SWITCH SELECTOR	1
N51.2264	40	Emergency button	EMERGENCY BUTTON BUTTON DIAMETER.40 ER502320 ERSCE	1
FR2.1059	41	PLC Control board	MAIN POWER BOARD	1
N1.4404	42	Eye bolt	LIFTING EYE BOLTS M12	1
N1.1220	43	Screw	BUTTON HEAD SCREW ISO 7380 - M6 x 16	1
N1.1557	44	Bolt	HEXAGON HEAD SCREW DIN 933 - M8 x 25	4
N1.6231	45	Washer	SPLIT WASHER DIN 7980 - A8	4
N1.6164	46	Washer	PLAIN WASHER DIN 125 - 8,4 x 16	4
FR2.1061	47	Cover	CHAIN PROTECTION CARTER	2
N1.1711	48	Screw	SCREW DIN 7981 - 4.2 x 9.5	4
N5.3739	49	Bracket	SUPPORT FOR CABLE CHAIN MODEL 1025.12P	1
FR2.1064	50	Cable chain	CABLE CHAIN MOD. 10025.038.049 MAGLIE ALBERO 2500 MM	1
FR2.1067	51	Chain	NEUTRAL CHAIN 1/2X5/16 P.372	1
N1.6167	52	Washer	PLAIN WASHER DIN 125 - 5,3 x 10	4
N11.1147	53	Screw	CYLINDRICAL HEAD CAP SCREWS DIN 912 M5 x 16	2
N11.1101	54	Screw	CYLINDRICAL HEAD CAP SCREWS DIN 912 M5 x 12	2
N12.1112	55	Screw	CYLINDRICAL HEAD CAP SCREW DIN 912 - M4 x 40	4
N1.5124	56	Nut	NUT DIN 934 - M4	4
FR2.1070	57	Chain cover	GUIDE SHAFT CARTER H=2500	2

Mast unit Robot 2500mm TAV.04

Part no.	RIF	Description	Specification	Quantity
N1.1218	58	Screw	BUTTON HEAD SCREW ISO 7380 - M5 x 12	12
N1.1222	59	Screw	BUTTON HEAD SCREW ISO 7380 - M6 x 20	4

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FR2.1072	60	Wheel	CARRIAGE SUPPORT WHEEL	1
FR2.1073	61	Plate	BOTTOM WHEEL CARRIAGE PLATE	1
FR2.1074	62	Bracket	CHAIN PROTECTION BOTTOM CARTER	1
N1.1527	63	Bolt	HEXAGON HEAD SCREW DIN 933 - M12 x 40	1
N1.6182	64	Washer	PLAIN WASHER DIN 125 - 13 x 24	1
N1.5107	65	Nut	NUT DIN 934 - M12	1
N1.5106	66	Nut	NUT DIN 934 - M8	4
N1.1419	67	Bolt	HEXAGON HEAD SCREW DIN 931 - M8 x 50	2
N1.2151	68	Screw	SOCKET CTRS. HD SCREW DIN 7991-A- M4 x 10	2
N1.1711	69	Screw	SCREW DIN 7981 - 4.2 x 9.5	2

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N51.2265	70	Contact	CONTACT NC ER520810 ERSCE	1
FR2.1134	71	Connector	CONNECTOR	1
N5.3327	72	Cable gland	CABLE GLAND SKINTOP PG13 D.C.V. 5/12	2

Mast unit Robot 2800mm TAV.04

Part no.	RIF	Description	Specification	Quantity
FR2.1044	1	Carriage	PAINTED SPOOL CARRIAGE	1
FR2.1047	2	Mast	CARRIAGE GUIDE SHAFT H 2800	1
FR2.1048	3	Reductor	RID. VSF RMI 40 FL-R.1/80 PAM63 B14	1
FR2.1049	4	Switch	MICRO SWITCH	2
FR2.1123	5	Cabinet	ELECTRICAL CABINET	1
FS2.1135	6	Support	SWINGING SUPPORT SPBFL 205	1
FR2.1050	8	O.P. Pannel	CONTROL PANEL	1
FS2.1016	9	Wheel	CARRIAGE GUIDE WHEEL	4
FR2.1051	10	Motor	MOTOR 24 VCC 280 W 1850 RPM	1
FR2.1052	11	Shaft	PINION CARRIAGEMOTOR	1
N1.1507	12	Bolt	HEXAGON HEAD SCREW DIN 933 - M8 x 16	4
N11.1102	13	Bolt	CYLINDRICAL HEAD CAP SCREWS DIN 912 M8 x 16	4
N1.6176	14	Washer	MUDWING REPAIR WASHER M8 x 35 (8,4 x 35 x 1,5)	2
FS2.1012	15	Shaft	PIN FOR CHAIN REGULATION	1
N1.1437	16	Bolt	HEXAGON HEAD SCREW DIN 931 - M8 x 80	1
N1.6161	17	Washer	PLAIN WASHER DIN 125 - 10.5 x 21	1
N1.5108	18	Nut	NUT DIN 934 - M10	1
FR2.1053	19	Bracket	TOP LIMIT SWITCH CAM	1
FR2.1054	20	Bracket	BOTTOM LIMIT SWITCH CAM	1
N11.1121	21	Screw	CYLINDRICAL HEAD CAP SCREWS DIN 912 M6 x 10	4
N1.6163	22	Washer	PLAIN WASHER DIN 125 - 6,4 x 12	4
N2.3306	23	Key	PARALLEL KEY DIN 6885 - A 6 x 6 x 50	1
N2.3314	24	Key	PARALLEL KEY DIN 6885 - A 8 x 7 x 25	1
N4.7243	25	Chain Wheel	CHAIN REGULATOR Z16 1/2	1
FS2.1017	26	Ring	IDLE PINION WASHER	1
N1.1520	27	Screw	HEXAGON HEAD SCREW DIN 933 - M6 x 16	1
FS2.1013	28	Chain Wheel	PINION MOTOR P.1/2X5/16 Z16	1
N1.6181	29	Washer	PLAIN WASHER DIN 125 - 4,3 x 9	4
N11.1174	30	Screw	CYLINDRICAL HEAD CAP SCREWS DIN 912 M4 x 30	4
N1.6164	31	Washer	PLAIN WASHER DIN 125 - 8,4 x 16	2
FR2.1056	32	Cover	SHAFT COVERAGE CARTER	1
FR2.1012	33	Wheel	MOTOR PHONIC WHEEL	1
N1.6167	34	Washer	PLAIN WASHER DIN 125 - 5,3 x 10	1
N11.1118	35	Screw	CYLINDRICAL HEAD CAP SCREWS DIN 912 M5 x 10	1
N5.2542	36	Sensor	PROXIMITY SENSOR AM6/AP-IH M12 NO	1
N5.2819	37	Connector	CONNETECTOR FOR SENSOR CD 12M/AA-020C1	1
N3.4307	38	Distance	THRUST BLOCK AS 1528	4
FR2.1138	39	Switch selector	KEY SWITCH SELECTOR	1
N51.2264	40	Emergency button	EMERGENCY BUTTON BUTTON DIAMETER.40 ER502320 ERSCE	1
FR2.1059	41	PLC Control board	MAIN POWER BOARD	1
N1.4404	42	Eye bolt	LIFTING EYE BOLTS M12	1
N1.1220	43	Screw	BUTTON HEAD SCREW ISO 7380 - M6 x 16	1
N1.1557	44	Bolt	HEXAGON HEAD SCREW DIN 933 - M8 x 25	4
N1.6231	45	Washer	SPLIT WASHER DIN 7980 - A8	4
N1.6164	46	Washer	PLAIN WASHER DIN 125 - 8,4 x 16	4
FR2.1061	47	Cover	CHAIN PROTECTION CARTER	2
N1.1711	48	Screw	SCREW DIN 7981 - 4.2 x 9.5	4
N5.3739	49	Bracket	SUPPORT FOR CABLE CHAIN MODEL 1025.12P	1
N5.3740	50	Cable chain	CABLE CHAIN MOD. 10025.038.055 MAGLIE ALBERO 2800 MM	1
FR2.1068	51	Chain	NEUTRAL CHAIN 1/2X5/16 P.372	1
N1.6167	52	Washer	PLAIN WASHER DIN 125 - 5,3 x 10	4
N11.1147	53	Screw	CYLINDRICAL HEAD CAP SCREWS DIN 912 M5 x 16	2
N11.1101	54	Screw	CYLINDRICAL HEAD CAP SCREWS DIN 912 M5 x 12	2
N12.1112	55	Screw	CYLINDRICAL HEAD CAP SCREW DIN 912 - M4 x 40	4
N1.5124	56	Nut	NUT DIN 934 - M4	4
FR2.1071	57	Chain cover	GUIDE SHAFT CARTER H=2800 Left	2

Mast unit Robot 2800mm TAV.04

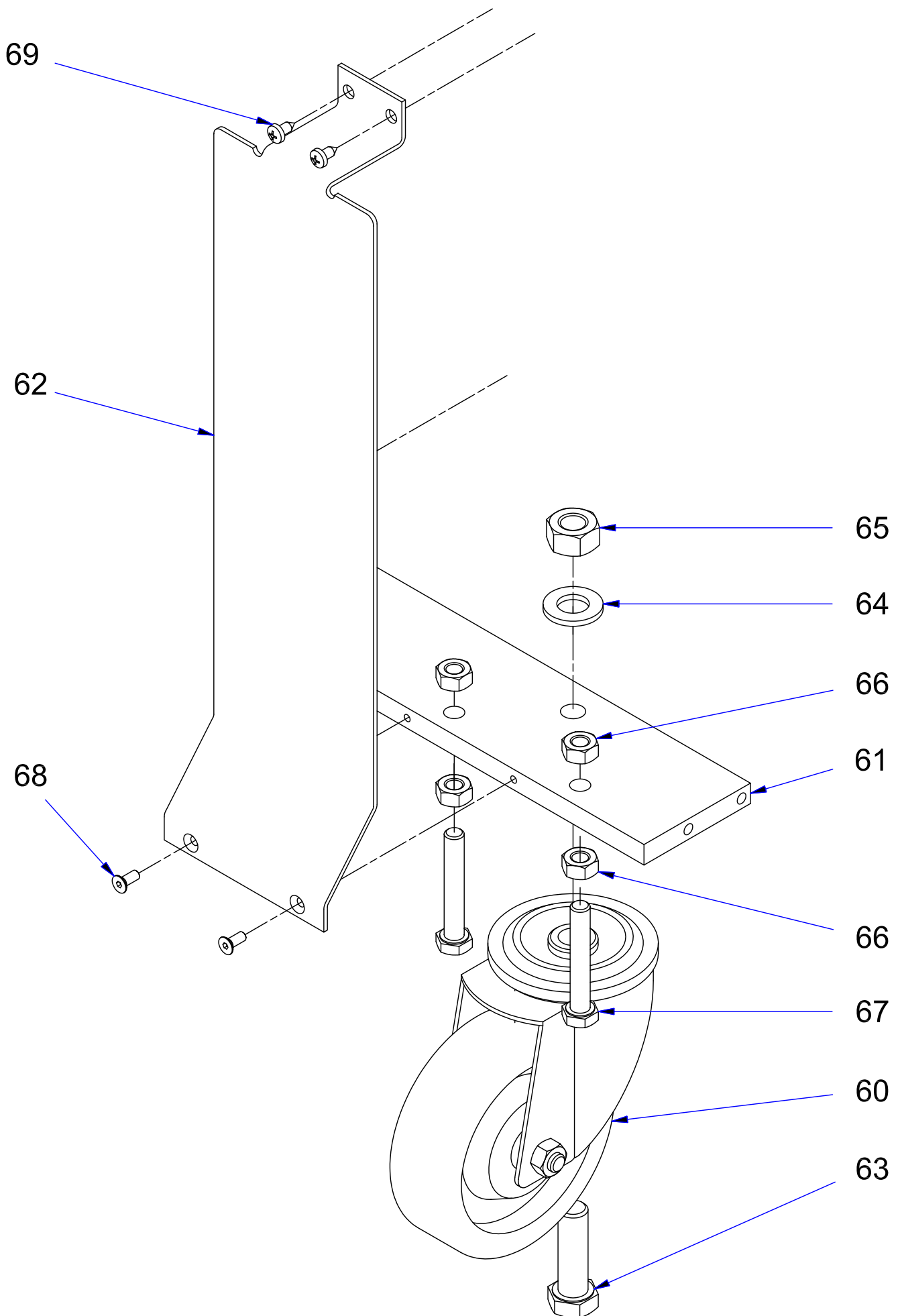
Part no.	RIF	Description	Specification	Quantity
N1.1218	58	Screw	BUTTON HEAD SCREW ISO 7380 - M5 x 12	12
N1.1222	59	Screw	BUTTON HEAD SCREW ISO 7380 - M6 x 20	4

TAV.04.1

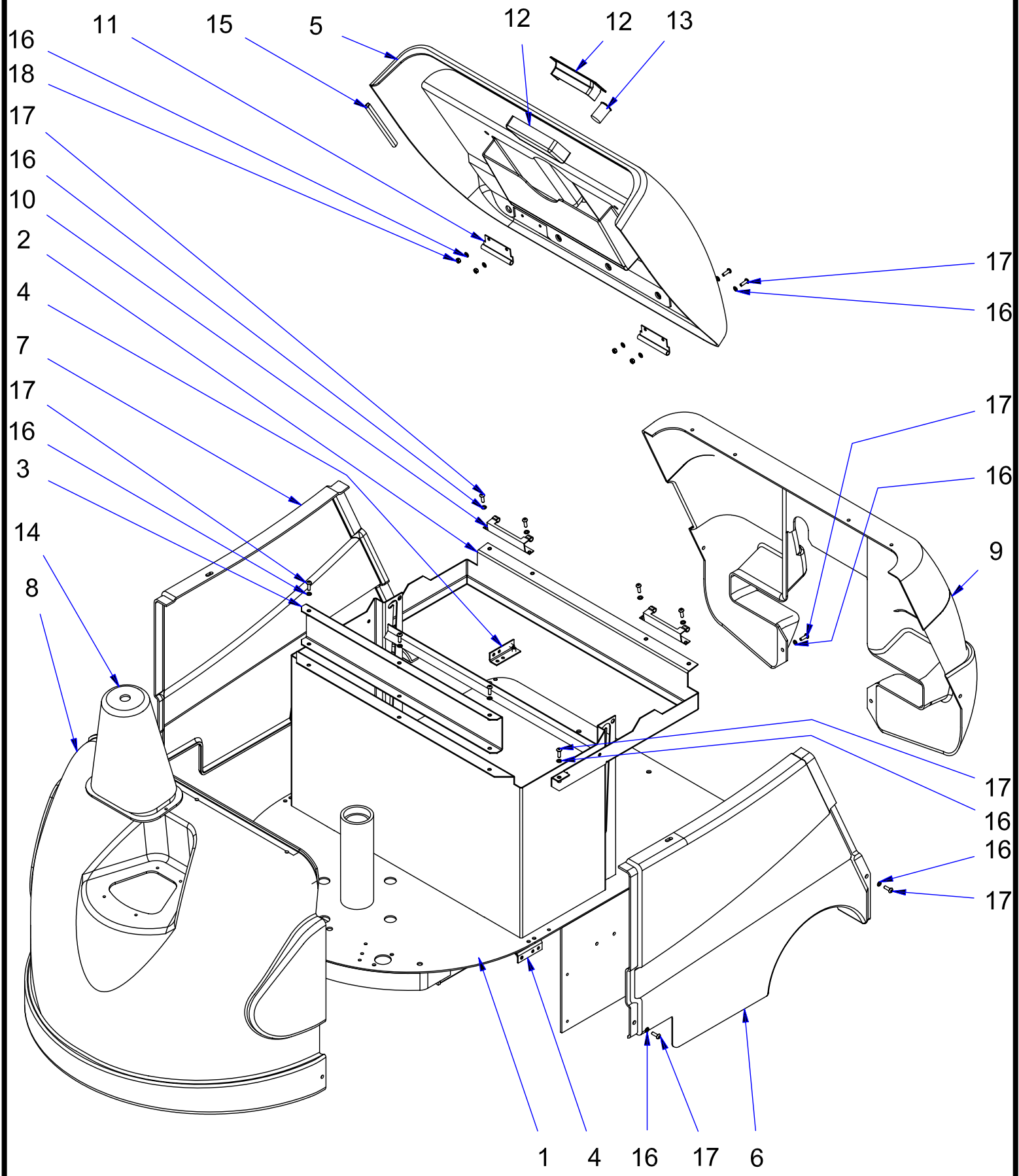
FR2.1072	60	Wheel	CARRIAGE SUPPORT WHEEL	1
FR2.1073	61	Plate	BOTTOM WHEEL CARRIAGE PLATE	1
FR2.1074	62	Bracket	CHAIN PROTECTION BOTTOM CARTER	1
N1.1527	63	Bolt	HEXAGON HEAD SCREW DIN 933 - M12 x 40	1
N1.6182	64	Washer	PLAIN WASHER DIN 125 - 13 x 24	1
N1.5107	65	Nut	NUT DIN 934 - M12	1
N1.5106	66	Nut	NUT DIN 934 - M8	4
N1.1419	67	Bolt	HEXAGON HEAD SCREW DIN 931 - M8 x 50	2
N1.2151	68	Screw	SOCKET CTRS. HD SCREW DIN 7991-A- M4 x 10	2
N1.1711	69	Screw	SCREW DIN 7981 - 4.2 x 9.5	2

TAV.04

N51.2265	70	Contact	CONTACT NC ER520810 ERSCE	1
FR2.1134	71	Connector	CONNECTOR	1
N5.3327	72	Cable gland	CABLE GLAND SKINTOP PG13 D.C.V. 5/12	2



FROMM TAV.05

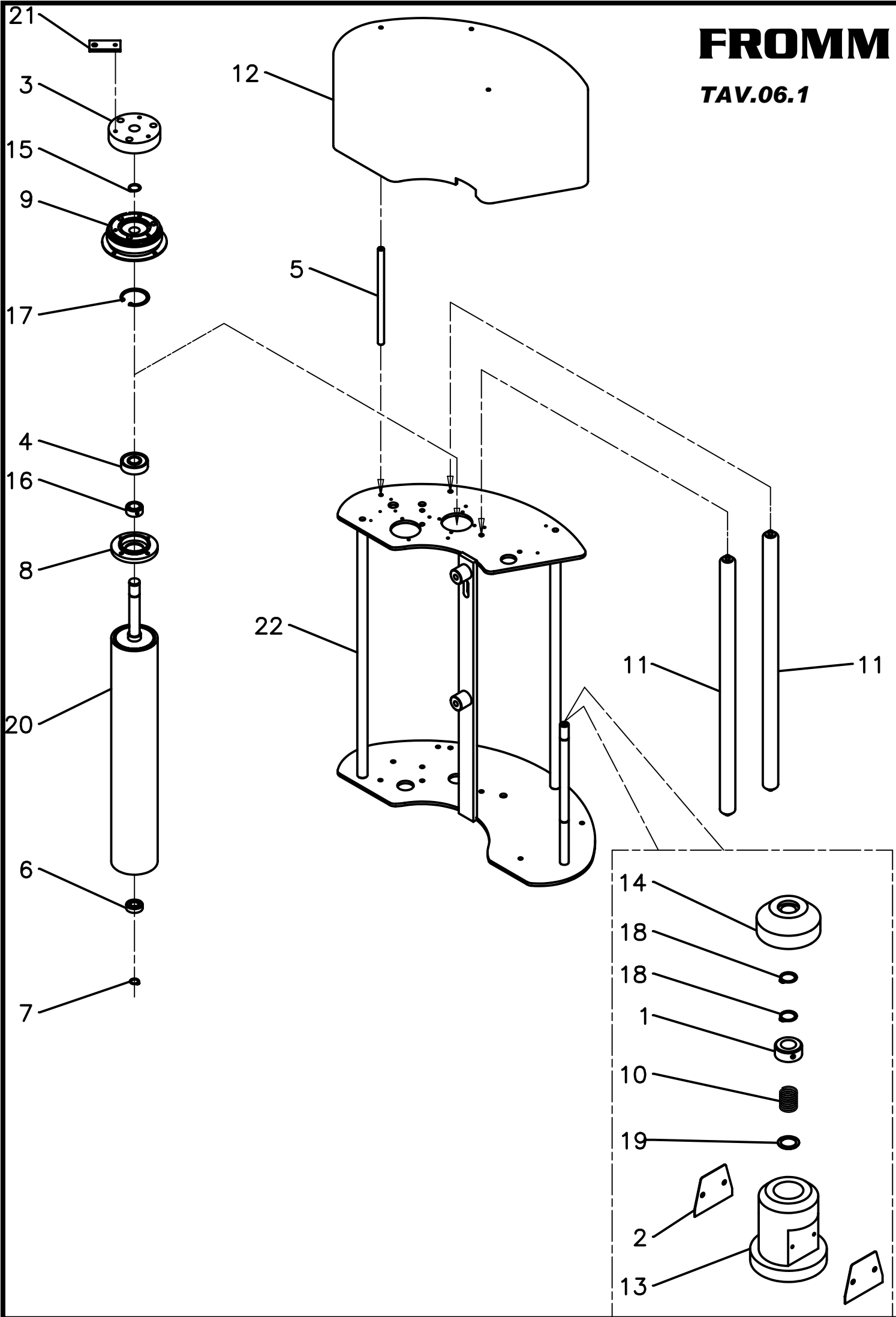


Cover group Robot TAV.05

Part no.	RIF	Description	Specification	Quantity
FR2.1001	1	Base unit	MAS BASE	1
FR2.1075	2	Subassembly	CARTER SUPPORT	1
FR2.1076	3	Subassembly	FRONT CARTER SHEET	1
FR2.1077	4	Bracket	CARTER FIXING STIRRUP	4
FR2.1078	5	Protection cover	OPENING BASE CARTER	1
FR2.1079	6	Cover left	LEFT BASE CARTER	1
FR2.1080	7	Cover right	RIGHT BASE CARTER	1
FR2.1081	8	Cover front	FRONT BASE CARTER	1
FR2.1093	9	Cover back	BACK BASE CARTER	1
FR2.1094	10	Hinsch	FIX SEMI-HINGE	2
FR2.1095	11	Hinsch	IDLE SEMI-HINGE	2
FR2.1096	12	Grip	HANDLE	1
FR2.1097	13	Magnet	MAGNET	1
FR2.1098	14	Rubber cover	RUBBER BUNNET	1
FR2.1099	15	Protection rubber	RUBBER PROFILE	1
N1.6167	16	Washer	PLAIN WASHER DIN 125 - 5,3 x 10	23
N1.1225	17	Screw	BUTTON HEAD SCREW ISO 7380 - M5 x 16	19
N1.5131	18	Nut	NUT DIN 934 - M5	4

FROMM

TAV.06.1

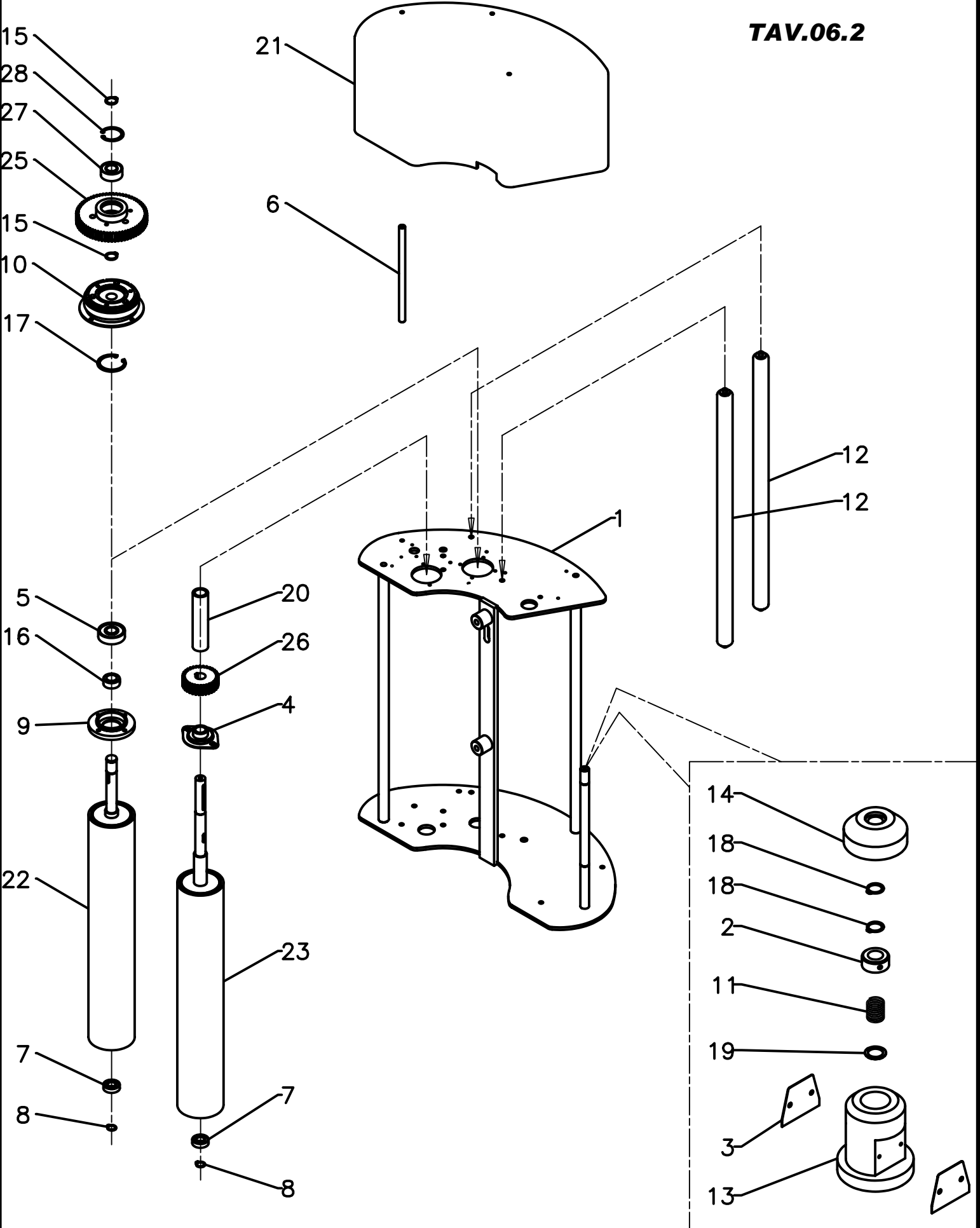


Carriage Robot FR250 TAV.06.1

Part no.	RIF	Description	Specification	Quantity
N7.2206	1	Metal ring	BLOCKING RING DIN 705 SHAPE C D. 18	1
FS2.1045	2	Bracket	HARMONIC STEEL PLATE SPOOL HOLDER LOCKER	2
FS2.1091	3	Disk	PRESTRETCH BRAKE FLANGE	1
N31.1109	4	Ball Bearing	BALLBEARING 6304 2RS 20 x 52 x 15	1
FS2.1085	5	Bracket	PRESTRETCH CARRIAGE CASING TUBE SPACER	2
N3.1102	6	Ball Bearing	BALLBEARING 6002 2RS 15 x 32 x 9	1
N2.1103	7	Retaining ring	ELASTIC RING DIN 471 D.15	1
FS2.1090	8	Ball bearing	BALLBEARING FLANGE (REV.01)	1
N4.7716	9	Brake	ELECTROMAGNETIC CLUTCH D. 100	1
FS2.1037	10	Spring	SPOOL HOLDER SPRING	1
FS2.1038	11	Roller	IDLE ROLLER DIAM.30/8 8.0.2. T=595 L=600 E=612	2
FR2.1102	12	Cover	SPOOL TOP CARTER	1
FS2.1046	13	Holder	SPOOL HOLDER FLANGE	1
FS2.1039	14	Holder	SPOOL GUIDE ROLLER	1
N2.1108	15	Retaining ring	ELASTIC RING DIN 471 D.20	1
N7.2209	16	Metal Ring	BLOCKING RING DIN 705 SHAPE C D. 20	1
N2.1217	17	Retaining ring	ELASTIC RING DIN 472 D.52	1
N2.1112	18	Retaining ring	ELASTIC RING DIN 471 D.17	2
N1.6325	19	Distance	SPACER RING SHAPE PS 18 X 25 X 1	1
FR2.1104	20	Feeding roller	SLOW ROLLER	1
FS2.1088	20	Feeding roller	SLOW RUBBER ROLLER	1
FR2.1105	21	Plate	PLATE AGAINST ROTATION SPOOL CLUTCH	1
FR2.1106	22	Carriage	PAINTED SPOOL HOLDER CARRIAGE	1

FROMM

TAV.06.2



Carriage Robot FR270 TAV.06.2

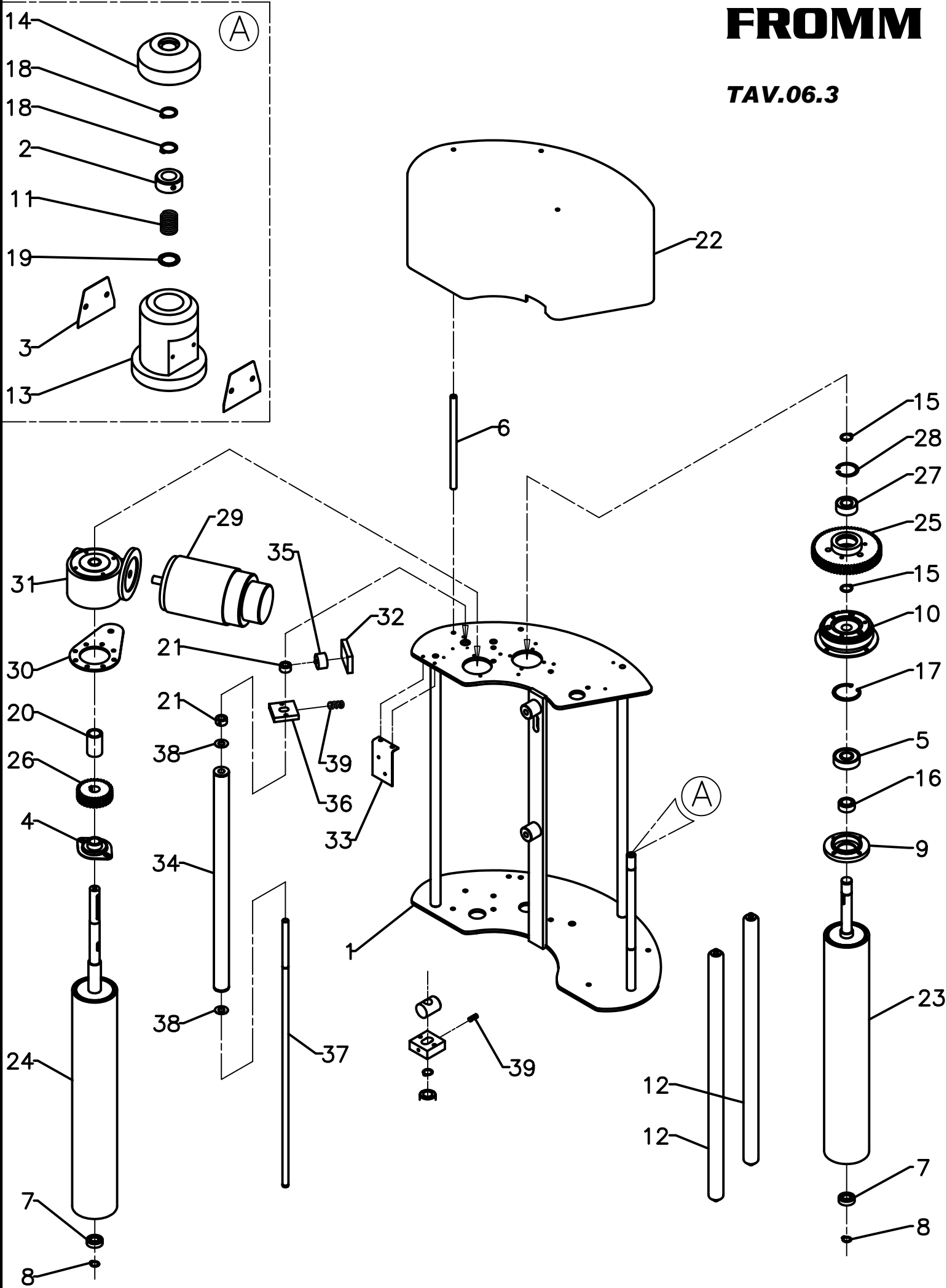
Part no.	RIF	Description	Specification	Quantity
FR2.1106	1	Carriage	PAINTED SPOOL HOLDER CARRIAGE	1
N7.2206	2	Metal ring	BLOCKING RING DIN 705 SHAPE C D. 18	1
FS2.1045	3	Bracket	HARMONIC STEEL PLATE SPOOL HOLDER LOCKER	2
FS2.1137	4	Support	SWINGING SUPPORT SPBFL 204	1
N31.1109	5	Ball Bearing	BALLBEARING 6304 2RS 20 x 52 x 15	1
FS2.1085	6	Bracket	PRESTRETCH CARRIAGE CASING TUBE SPACER	3
N3.1102	7	Ball Bearing	BALLBEARING 6002 2RS 15 x 32 x 9	2
N2.1103	8	Retaining ring	ELASTIC RING DIN 471 D.15	2
FS2.1090	9	Ball Bearing	BALLBEARING FLANGE (REV.01)	1
N4.7716	10	Brake	ELECTROMAGNETIC CLUTCH D. 100	1
FS2.1037	11	Spring	SPOOL HOLDER SPRING	1
FS2.1038	12	Roller	IDLE ROLLER DIAM.30/8 8.0.2. T=595 L=600 E=612	2
FS2.1046	13	Holder	SPOOL HOLDER FLANGE	1
FS2.1039	14	Holder	SPOOL GUIDE ROLLER	1
N2.1108	15	Retaining ring	ELASTIC RING DIN 471 D.20	2
N7.2209	16	Metal ring	BLOCKING RING DIN 705 SHAPE C D. 20	1
N2.1217	17	Retaining ring	ELASTIC RING DIN 472 D.52	1
N2.1112	18	Retaining ring	ELASTIC RING DIN 471 D.17	2
N1.6325	19	Distance	SPACER RING SHAPE PS 18 X 25 X 1	1
FS2.1094	20	Distance	PRESTRETCH ROLLER SPACER 300	1
FR2.1102	21	Cover	SPOOL TOP CARTER	1
FR2.1104	22	Feeding Roller	SLOW ROLLER	1
FS2.1088	22	Feeding Roller	SLOW RUBBER ROLLER	1
FR2.1108	23	Feeding Roller	FAST ROLLER	1
FS2.1095	23	Feeding Roller	FAST RUBBER ROLLER	1
N2.1222	24	Retaining ring	ELASTIC RING DIN 472 D.42	1
FS2.1126	25	Gear 150%	FAST ROLLER WHEEL Z72	1
FS2.1125	26	Gear 150%	SLOW ROLLER WHEEL Z28	1
N31.1110	27	Ball Bearing	BALLBEARING 63004 2RS 20 x 42 x 16	1

Options

FROMM	RIF	Description	Specification	Quantity
FS2.1096	25	Gear 230%	SLOW ROLLER WHEEL Z77	1
FS2.1128	25	Gear 200%	FAST ROLLER WHEEL Z75	1
FS2.1124	25	Gear 100%	FAST ROLLER WHEEL Z67	1
FS2.1122	25	Gear 50%	FAST ROLLER WHEEL Z60	1
FS2.1093	26	Gear 230%	FAST ROLLER WHEEL Z23	1
FS2.1127	26	Gear 200%	SLOW ROLLER WHEEL Z25	1
FS2.1123	26	Gear 100%	SLOW ROLLER WHEEL Z33	1
FS2.1121	26	Gear 50%	SLOW ROLLER WHEEL Z40	1

FROMM

TAV.06.3



Carriage Robot FR290 TAV.06.3

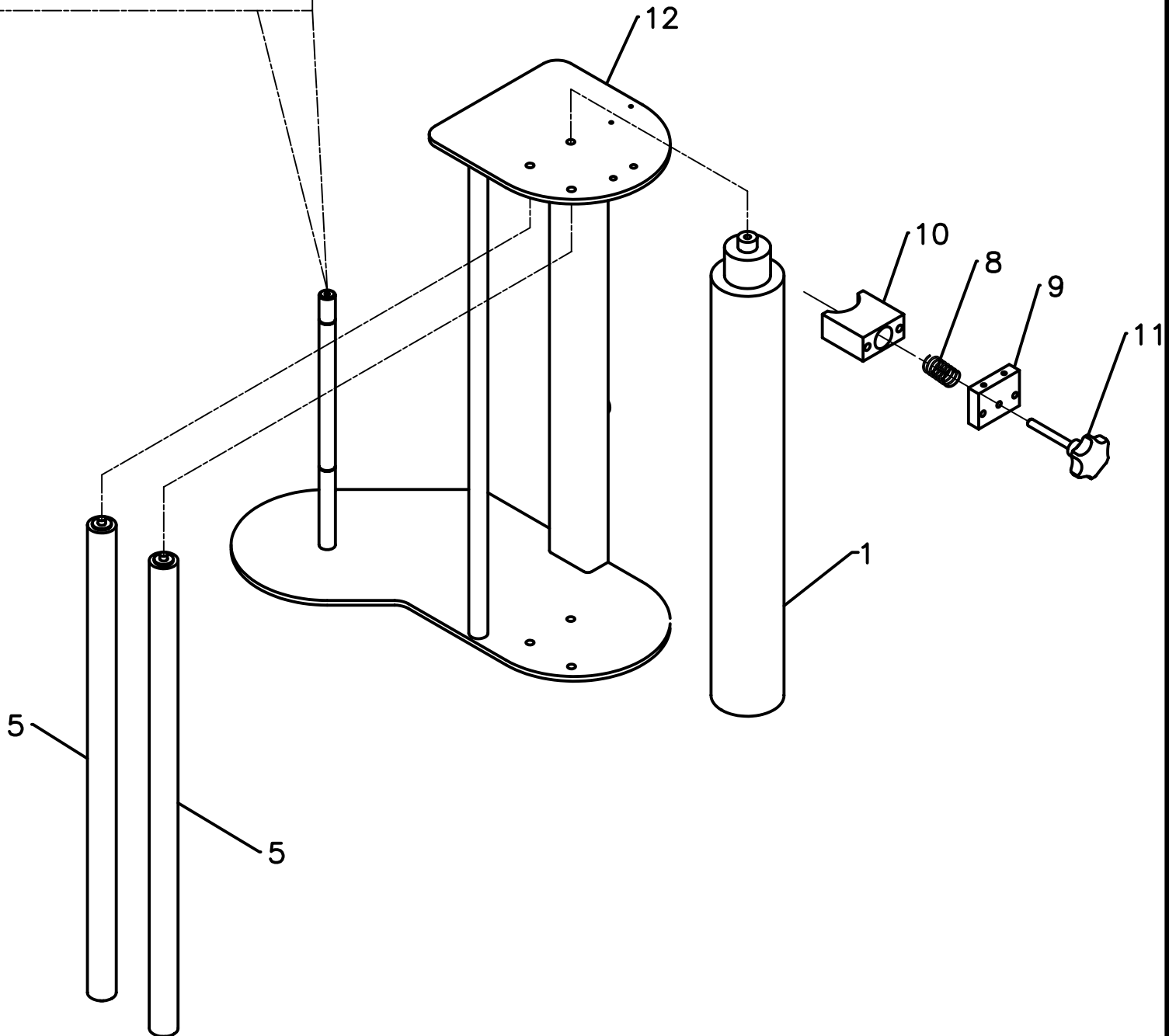
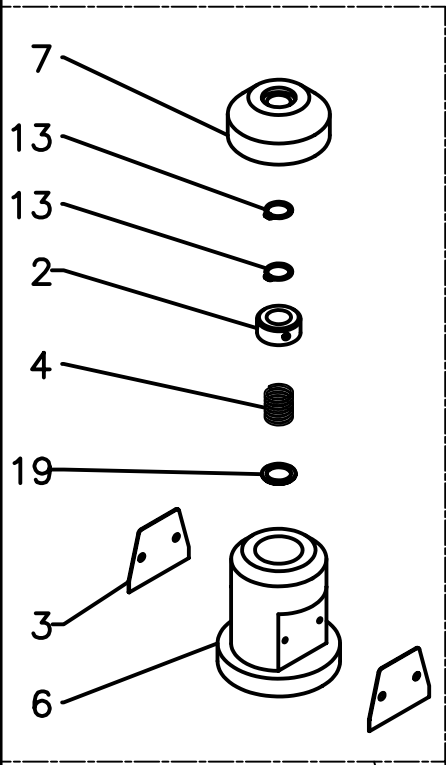
Part no.	RIF	Description	Specification	Quantity
FR2.1106	1	Carriage	PAINTED SPOOL HOLDER CARRIAGE	1
N7.2206	2	Metal ring	BLOCKING RING DIN 705 SHAPE C D. 18	1
FS2.1045	3	Bracket	HARMONIC STEEL PLATE SPOOL HOLDER LOCKER	2
FS2.1137	4	Support	SWINGING SUPPORT SPBFL 204	1
N31.1109	5	Ball bearing	BALLBEARING 6304 2RS 20 x 52 x 15	1
FS2.1085	6	Bracket	PRESTRETCH CARRIAGE CASING TUBE SPACER	3
N3.1102	7	Ball Bearing	BALLBEARING 6002 2RS 15 x 32 x 9	2
N2.1103	8	Retaining ring	ELASTIC RING DIN 471 D.15	2
FS2.1090	9	Ball Bearing	BALLBEARING FLANGE (REV.01)	1
N4.7716	10	Brake	ELECTROMAGNETIC CLUTCH D. 100	1
FS2.1037	11	Spring	SPOOL HOLDER SPRING	1
FS2.1038	12	Roller	IDLE ROLLER DIAM.30/8 8.0.2. T=595 L=600 E=612	2
FS2.1046	13	Holder	SPOOL HOLDER FLANGE	1
FS2.1039	14	Holder	SPOOL GUIDE ROLLER	1
N2.1108	15	Retaining ring	ELASTIC RING DIN 471 D.20	2
N7.2209	16	Metal ring	BLOCKING RING DIN 705 SHAPE C D. 20	1
N2.1217	17	Retaining ring	ELASTIC RING DIN 472 D.52	1
N2.1112	18	Retaining ring	ELASTIC RING DIN 471 D.17	2
N1.6325	19	Distance	SPACER RING SHAPE PS 18 X 25 X 1	1
FS2.1101	20	Distance	PRESTRETCH ROLLER SPACER 400	1
N7.2211	21	Metal ring	BLOCKING RING DIN 705 SHAPE C D. 12	1
FR2.1102	22	Cover	SPOOL TOP CARTER	1
FR2.1104	23	Feeding Roller	SLOW ROLLER	1
FS2.1088	23	Feeding roller	SLOW RUBBER ROLLER	1
FR2.1108	24	Feeding Roller	FAST ROLLER	1
FS2.1095	24	Feeding roller	FAST RUBBER ROLLER	1
FS2.1096	25	Gear 230%	SLOW ROLLER WHEEL Z77	1
FS2.1093	26	Gear 230%	FAST ROLLER WHEEL Z23	1
N31.1110	27	Ball bearing	BALLBEARING 63004 2RS 20 x 42 x 16	1
N2.1222	28	Retaining ring	ELASTIC RING DIN 472 D.42	1
FR2.1109	29	Motor	MOTOR 24 VCC 500 W 3000 RPM	1
FS2.1139	30	Bracket	REACTION ARM	1
FR2.1110	31	Reductor	RID. VSF RMI 40P-R.1/10 PAM63 B 14	1
FS2.1097	32	Bracket	PRESTRETCH SENSOR PLATE (REV.1)	1
FS2.1105	32a	Control card	PRESTRETCH BOARD PCB349	1
FS2.1098	33	Bracket	PRESTRECH BUTTON STIRRUP	1
FR2.1111	34	Swinger arm	FEELING PRESTRECH ROLLER	1
FR2.1112	35	Feeler tampon	RUBBER PAD FOR PRESTRECH BOARD	1
FR2.1113	36	Bracket	FEELING ROLLER PLATE	1
FR2.1114	37	Swinger arm	FEELING ROLLER PIN	1
FR2.1115	38	Distance	THRUST BEARING AS 1223	1
FR2.1116	39	Spring	FEELING ROLLER SPRING	1

Options

FROMM	RIF	Description	Specification	Quantity
FS2.1128	25	Gear 200%	FAST ROLLER WHEEL Z75	1
FS2.1126	25	Gear 150%	FAST ROLLER WHEEL Z72	1
FS2.1124	25	Gear 100%	FAST ROLLER WHEEL Z67	1
FS2.1122	25	Gear 50%	FAST ROLLER WHEEL Z60	1
FS2.1127	26	Gear 200%	SLOW ROLLER WHEEL Z25	1
FS2.1125	26	Gear 150%	SLOW ROLLER WHEEL Z28	1
FS2.1123	26	Gear 100%	SLOW ROLLER WHEEL Z33	1
FS2.1121	26	Gear 50%	SLOW ROLLER WHEEL Z40	1

FROMM

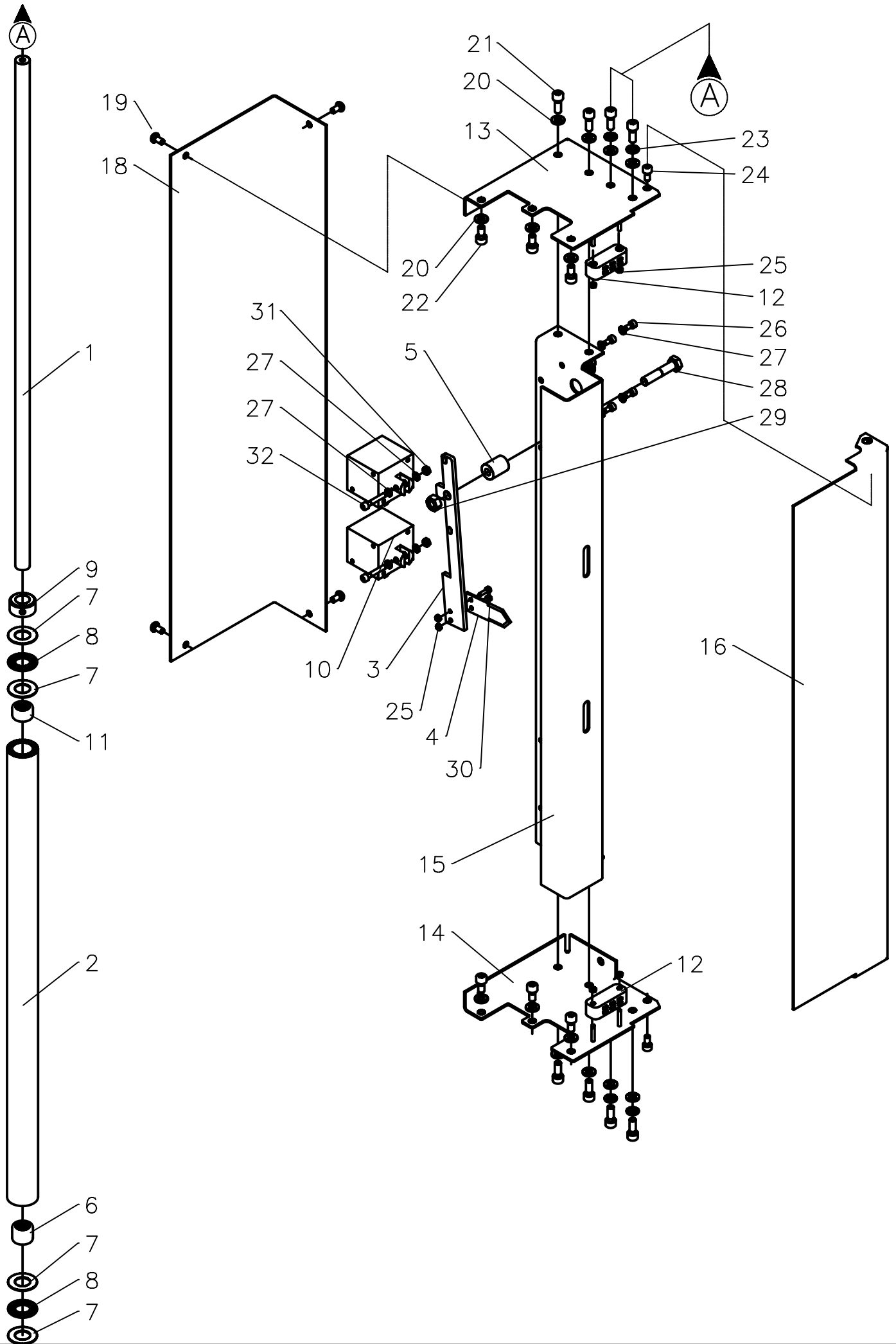
TAV.06.4



Carriage Robot FR230 TAV.06.4

Part no.	RIF	Description	Specification	Quantity
FR2.1117	1	Brake	STOPPING FILM ROLLER (Without Rubber)	1
FS2.1043	1	Brake	STOPPING FILM RUBBER ROLLER	1
N7.2206	2	Metal ring	BLOCKING RING DIN 705 SHAPE C D. 18	1
FS2.1045	3	Bracket	HARMONIC STEEL PLATE SPOOL HOLDER LOCKER	2
FS2.1037	4	Spring	SPOOL HOLDER SPRING	1
FS2.1038	5	Roller	IDLE ROLLER DIAM.30/8 8.0.2. T=595 L=600 E=612	2
FS2.1046	6	Holder	SPOOL HOLDER FLANGE	1
FS2.1039	7	Holder	SPOOL GUIDE ROLLER	1
FS2.1040	8	Spring	FILM BRAKE SPRING	1
FS2.1041	9	Bracket	KNOB SUPPORT	1
FS2.1042	10	Brake	RUBBERED ROLLER BRAKE STOPPER (REV.01)	1
N4.2602	11	Wheel	HAND-WHEEL TREAD M8	1
FR2.1118	12	Carriage	PAINTED SPOOL HOLDER CARRIAGE	1
N2.1112	13	Retaining ring	ELASTIC RING DIN 471 D.17	2
N1.6325	19	Distance	SPACER RING SHAPE PS 18 X 25 X 1	1

FROMM TAV.07



Cutting device TAV.07 (Assembled group for FS and FR 16.8246)

Part no.	RIF	Description	Specification	Quantity
FS2.1106	1	Feeding roller	ANTI-RETURN ROLLER PIVOT	2
FS2.1107	2	Feeding roller	RUBBER ROLLER ANTI-RETURN	2
FS2.1108	3	Bracket	FILM CUTTER LEVER	1
FS2.1109	4	Knife	FILM CUTTER	1
FS2.1110	5	Distance	SPACER FOR FILM CUTTER LEVER	1
N3.4518	6	Roller	FREE WHEELS HF-1416	2
N3.4307	7	Distance	THRUST BLOCK AS 1528	8
N3.4102	8	Ball bearing	AXIAL CAGE AXK 1528	4
N7.2210	9	Metal ring	BLOCKING RING DIN 705 SHAPE C D. 14	2
FS2.1134	10	Knife	SOLENOID 24 V. C.C. DUTY 100% MOD. D6	2
N3.2358	11	Roller	ROLLERS CASES HK-1412	2
FS2.1111	12	Magnet	MAGNETIC CLOSURE UC14	2
FS2.1112	13	Casing	PAINTED TOP PLATE	1
FS2.1113	14	Casing	PAINTED BOTTOM PLATE	1
FS2.1114	15	Casing	PAINTED SOLENOIDS HOLDER PLATE	1
FS2.1115	16	Casing	PAINTED CUTTER PROTECTION CASING	1
FS2.1116	18	Casing	PAINTED SOLENOID PROTECTION CASING	1
N1.1224	19	Screw	BUTTON HEAD SCREW ISO 7380 - M5 x 10	4
N1.6163	20	Washer	PLAIN WASHER DIN 125 - 6,4 x 12	18
N11.1142	21	Screw	CYLINDRICAL HEAD CAP SCREWS DIN 912 M6 x 16	8
N11.1146	22	Screw	CYLINDRICAL HEAD CAP SCREWS DIN 912 M6 x 12	6
N1.6230	23	Washer	SPLIT WASHER DIN 7980 - A6	4
N11.1118	24	Screw	CYLINDRICAL HEAD CAP SCREWS DIN 912 M5 x 10	2
N1.5120	25	Nut	NUT DIN 934 - M3	6
N11.1115	26	Screw	CYLINDRICAL HEAD CAP SCREWS DIN 912 M4 x 8	4
N1.6181	27	Washer	PLAIN WASHER DIN 125 - 4,3 x 9	8
N1.1562	28	Bolt	HEXAGON HEAD SCREW DIN 933 - M8 x 40	1
N1.5106	29	Nut	NUT DIN 934 - M8	1
N1.1173	30	Screw	CYLINDRICAL HEAD SCREW UNI 5931 - M3 x 10	2
N1.5124	31	Nut	NUT DIN 934 - M4	2
N12.1113	32	Screw	CYLINDRICAL HEAD CAP SCREW DIN 912 - M4 x 25	2

Please Note:

Especially for the Robot you will need the assembled group list of drawing:

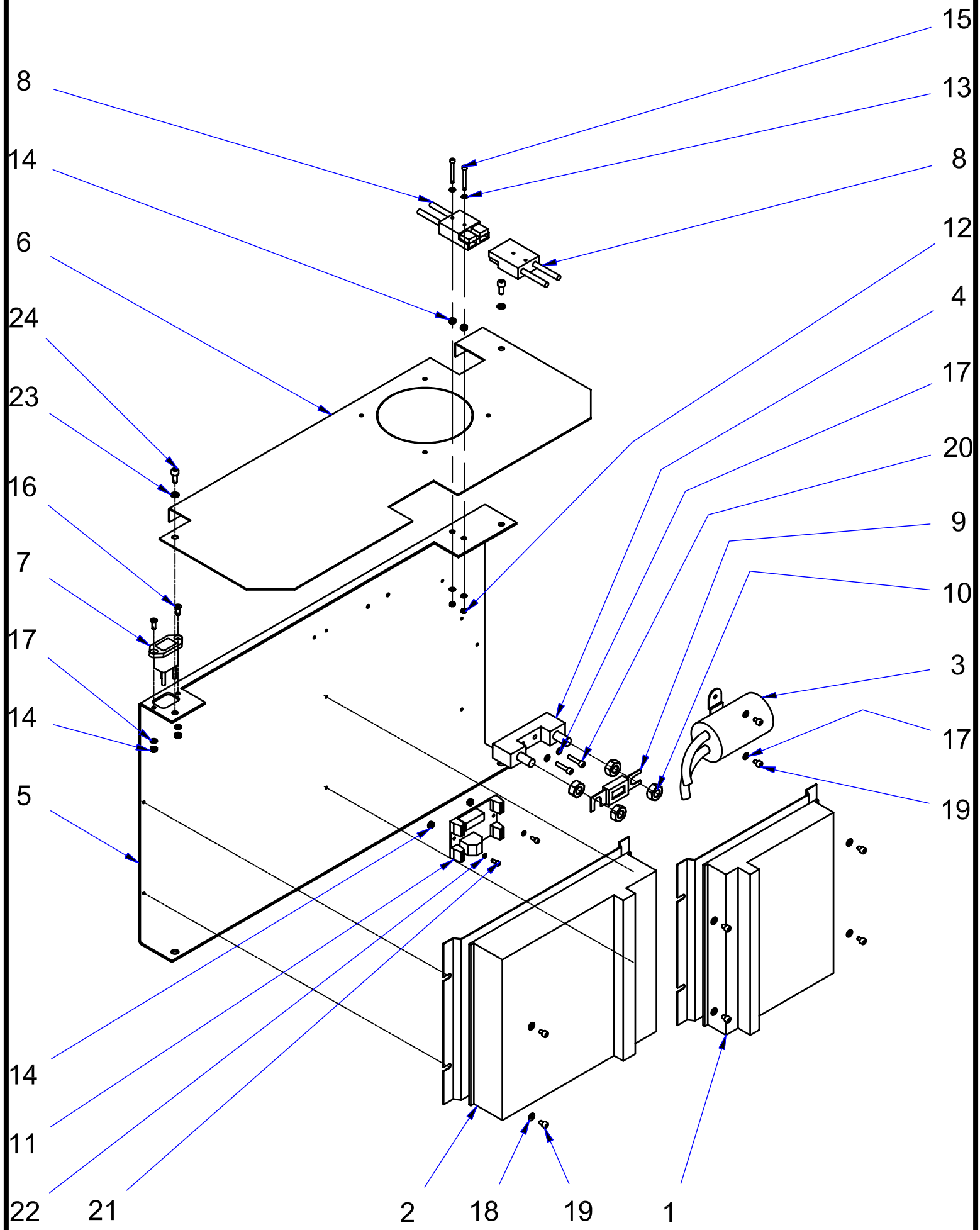
- 16.8255
- 16.8256

The only reason is the extra control board RIF 17 in those drawings. All other component are the same.

This control board is also mentioned in Drawing / TAV.08 RIF 11. Also here we refer to the drawings

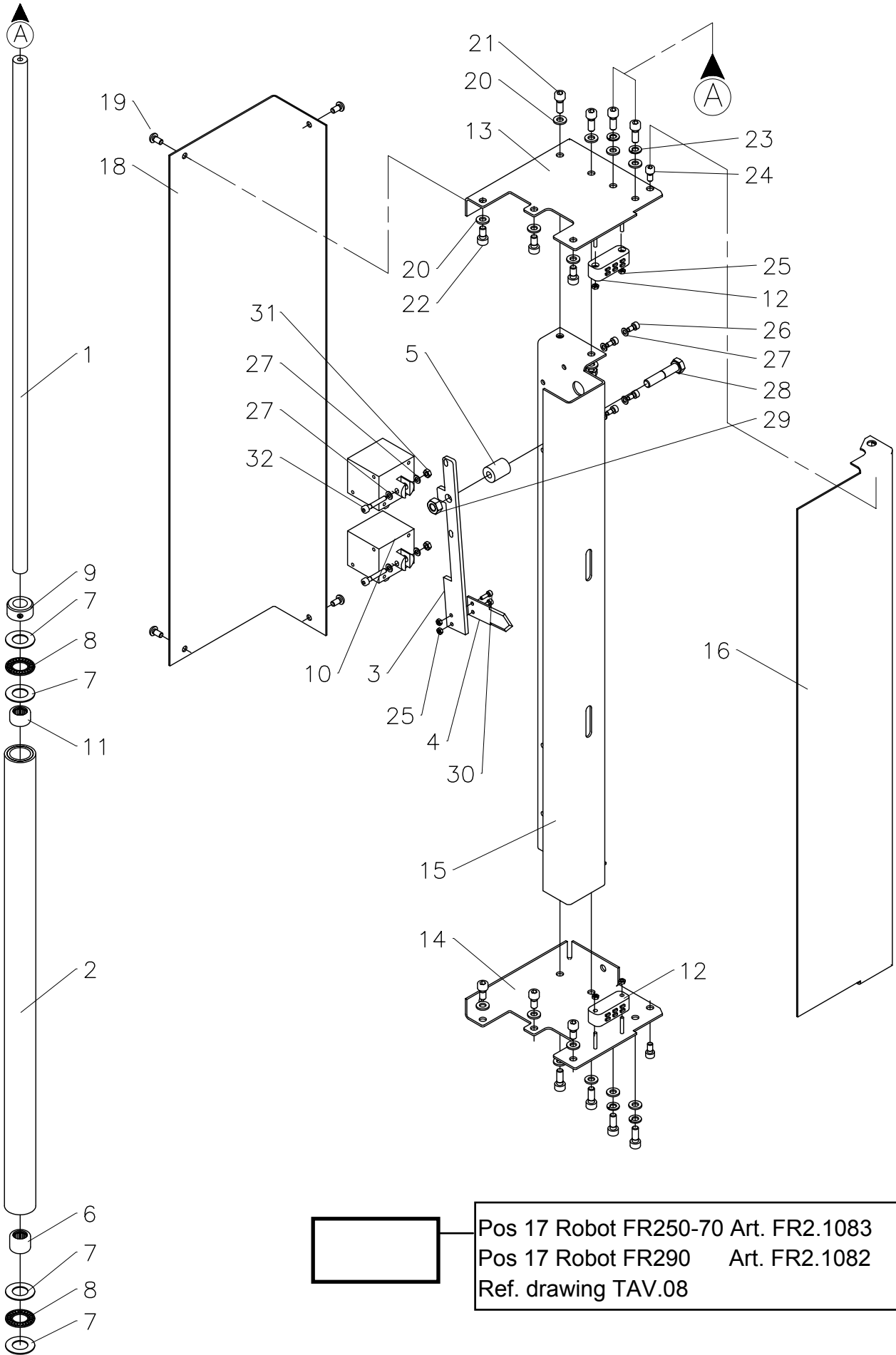
- 16.8255
- 16.8256

FROMM TAV.08



Electrical parts TAV.08

Part no.	RIF	Description	Specification	Quantity
FR2.1124	1	Charger	BATTERY CHARGER	1
FR2.1125	2	PLC Control board	BOARD FOR FR250/FR270	1
FR2.1126	2	PLC Control board	BOARD FOR FR290	1
FR2.1127	3	Relais	RELAIS	1
FR2.1128	4	Subassembly	FUSE'S SUPPORT	1
FR2.1006	5	Components plate	SUPPORT FOR ELECT.COMP.	1
FR2.1007	6	Subassembly	SUPPORT OPENING CARTER	1
FR2.1129	7	Connector	PLUG	1
FR2.1130	8	Connector	BATTERY PLUG	2
FR2.1131	9	Fuse	PROTECTED FUSE	1
N1.5108	10	Nut	NUT DIN 934 - M10	2
	11	PLC Control board	BOARD FOR CUTTING DEVICE 16.8255	1
N1.5120	12	Nut	NUT DIN 934 - M3	2
N1.6183	13	Washer	PLAIN WASHER DIN 125 - 3,2 x 7	4
N1.5124	14	Nut	NUT DIN 934 - M4	6
N12.1114	15	Screw	CYLINDRICAL HEAD CAP SCREW DIN 912 - M3 x 30	2
N1.2180	16	Screw	SOCKET CTRS. HD SCREW DIN 7991-A-M4 x 12	2
N1.6181	17	Washer	PLAIN WASHER DIN 125 - 4,3 x 9	6
N1.6181	18	Washer	PLAIN WASHER DIN 125 - 4,3 x 9	6
N11.1114	19	Screw	CYLINDRICAL HEAD CAP SCREWS DIN 912 M4 x 6	8
N11.1145	20	Screw	CYLINDRICAL HEAD CAP SCREWS DIN 912 M4 x 20	2
N12.1115	21	Screw	CYLINDRICAL HEAD CAP SCREW DIN 912 - M3 x 8	2
N1.6183	22	Washer	PLAIN WASHER DIN 125 - 3,2 x 7	2
N1.6167	23	Washer	PLAIN WASHER DIN 125 - 5,3 x 10	2
N11.1101	24	Screw	CYLINDRICAL HEAD CAP SCREWS DIN 912 M5 x 12	2
FR2.1140		Eeprom	Eeprom Version 03 Robot	1



Filmcutting units 16.8255 - 16.8256

FROMM

Cutting device Robot TAV.16.8255

Part no.	RIF	Description	Specification	Quantity
FS2.1106	1	Feeding roller	ANTI-RETURN ROLLER PIVOT	2
FS2.1107	2	Feeding roller	RUBBER ROLLER ANTI-RETURN	2
FS2.1108	3	Bracket	FILM CUTTER LEVER	1
FS2.1109	4	Knife	FILM CUTTER	1
FS2.1110	5	Distance	SPACER FOR FILM CUTTER LEVER	1
N3.4518	6	Roller	FREE WHEELS HF-1416	2
N3.4307	7	Distance	THRUST BLOCK AS 1528	8
N3.4102	8	Ball bearing	AXIAL CAGE AXK 1528	4
N7.2210	9	Metal ring	BLOCKING RING DIN 705 SHAPE C D. 14	2
FS2.1134	10	Knife	SOLENOID 24 V. C.C. DUTY 100% MOD. D6	2
N3.2358	11	Roller	ROLLERS CASES HK-1412	2
FS2.1111	12	Magnet	MAGNETIC CLOSURE UC14	2
FS2.1112	13	Casing	PAINTED TOP PLATE	1
FS2.1113	14	Casing	PAINTED BOTTOM PLATE	1
FS2.1114	15	Casing	PAINTED SOLENOIDS HOLDER PLATE	1
FS2.1115	16	Casing	PAINTED CUTTER PROTECTION CASING	1
FR2.1083	17	Board	POWER ELECTRONIC BOARD For cutting FR250	1
FS2.1116	18	Casing	PAINTED SOLENOID PROTECTION CASING	1
N1.1224	19	Screw	BUTTON HEAD SCREW ISO 7380 - M5 x 10	4
N1.6163	20	Washer	PLAIN WASHER DIN 125 - 6,4 x 12	18
N11.1142	21	Screw	CYLINDRICAL HEAD CAP SCREWS DIN 912 M6 x 16	8
N11.1146	22	Screw	CYLINDRICAL HEAD CAP SCREWS DIN 912 M6 x 12	6
N1.6230	23	Washer	SPLIT WASHER DIN 7980 - A6	4
N11.1118	24	Screw	CYLINDRICAL HEAD CAP SCREWS DIN 912 M5 x 10	2
N1.5120	25	Nut	NUT DIN 934 - M3	6
N11.1115	26	Screw	CYLINDRICAL HEAD CAP SCREWS DIN 912 M4 x 8	4
N1.6181	27	Washer	PLAIN WASHER DIN 125 - 4,3 x 9	8
N1.1562	28	Bolt	HEXAGON HEAD SCREW DIN 933 - M8 x 40	1
N1.5106	29	Nut	NUT DIN 934 - M8	1
N1.1173	30	Screw	CYLINDRICAL HEAD SCREW UNI 5931 - M3 x 10	2
N1.5124	31	Nut	NUT DIN 934 - M4	2
N12.1113	32	Screw	CYLINDRICAL HEAD CAP SCREW DIN 912 - M4 x 25	2

Cutting device Robot TAV.16.8256

Part no.	RIF	Description	Specification	Quantity
FS2.1106	1	Feeding roller	ANTI-RETURN ROLLER PIVOT	2
FS2.1107	2	Feeding roller	RUBBER ROLLER ANTI-RETURN	2
FS2.1108	3	Bracket	FILM CUTTER LEVER	1
FS2.1109	4	Knife	FILM CUTTER	1
FS2.1110	5	Distance	SPACER FOR FILM CUTTER LEVER	1
N3.4518	6	Roller	FREE WHEELS HF-1416	2
N3.4307	7	Distance	THRUST BLOCK AS 1528	8
N3.4102	8	Ball bearing	AXIAL CAGE AXK 1528	4
N7.2210	9	Metal ring	BLOCKING RING DIN 705 SHAPE C D. 14	2
FS2.1134	10	Knife	SOLENOID 24 V. C.C. DUTY 100% MOD. D6	2
N3.2358	11	Roller	ROLLERS CASES HK-1412	2
FS2.1111	12	Magnet	MAGNETIC CLOSURE UC14	2
FS2.1112	13	Casing	PAINTED TOP PLATE	1
FS2.1113	14	Casing	PAINTED BOTTOM PLATE	1
FS2.1114	15	Casing	PAINTED SOLENOIDS HOLDER PLATE	1
FS2.1115	16	Casing	PAINTED CUTTER PROTECTION CASING	1
FR2.1082	17	Board	POWER ELECTRONIC BOARD For cutting FR270 - 290	1
FS2.1116	18	Casing	PAINTED SOLENOID PROTECTION CASING	1
N1.1224	19	Screw	BUTTON HEAD SCREW ISO 7380 - M5 x 10	4
N1.6163	20	Washer	PLAIN WASHER DIN 125 - 6,4 x 12	18
N11.1142	21	Screw	CYLINDRICAL HEAD CAP SCREWS DIN 912 M6 x 16	8
N11.1146	22	Screw	CYLINDRICAL HEAD CAP SCREWS DIN 912 M6 x 12	6
N1.6230	23	Washer	SPLIT WASHER DIN 7980 - A6	4
N11.1118	24	Screw	CYLINDRICAL HEAD CAP SCREWS DIN 912 M5 x 10	2
N1.5120	25	Nut	NUT DIN 934 - M3	6
N11.1115	26	Screw	CYLINDRICAL HEAD CAP SCREWS DIN 912 M4 x 8	4
N1.6181	27	Washer	PLAIN WASHER DIN 125 - 4,3 x 9	8
N1.1562	28	Bolt	HEXAGON HEAD SCREW DIN 933 - M8 x 40	1
N1.5106	29	Nut	NUT DIN 934 - M8	1
N1.1173	30	Screw	CYLINDRICAL HEAD SCREW UNI 5931 - M3 x 10	2
N1.5124	31	Nut	NUT DIN 934 - M4	2
N12.1113	32	Screw	CYLINDRICAL HEAD CAP SCREW DIN 912 - M4 x 25	2

FROMM

Electrical Schematic

**ROBOT Wrapping Machine's
FR230 / FR230 / FR270 / FR290
Version 01**

ELS FRXXX.EN / epennings / © 09/04

PROJECT: ROBOT
VERSION : 02

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MODEL

Model: FR230 - 250 - 270 - 290

POWER SUPPLY 230Vac
CORRENT 3 A
INSTALLED POWER 0.6 KW
VERSION 02
DATE 18-09-2003

DATE 22/09/2003

COMMISS.

CHECKED BY

APPROV.

PRESENTAZIONE MACCHINA

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| 2 | INDICE | 2 | INDEX |
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| 4 | ALIMENTAZIONE GENERALE | 4 | POWER SUPPLY |
| 5 | CARICABATTERIA | 5 | BATTERY CHARGER |
| 6 | MOTORI | 6 | MOTORI |
| 7 | SENSORI MOTORI | 7 | MOTOR SENSORS |
| 8 | INGRESSI | 8 | INPUTS |
| 9 | USCITE | 9 | OUTPUTS |
| 10 | PANNELLO | 10 | PANNEL |
| 11 | GRUPPO TAGLIO FILM (opzionale) | 11 | FILM CUT UNIT (optional) |
| 12 | CONNETTORI SCHEDE | 12 | BOARDS CONNECTORS |

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PROJECT: ROBOT
VERSION : 02

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MODEL

Model: FR230 - 250 - 270 - 290

POWER SUPPLY 230Vac
 CORRENT 3 A
 INSTALLED POWER 0.6 KW
 VERSION 02
 DATE 18-09-2003

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| 5 | CARICABATTERIA | 5 | BATTERY CHARGER |
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| 8 | INGRESSI | 8 | INPUTS |
| 9 | USCITE | 9 | OUTPUTS |
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VERSION : 02

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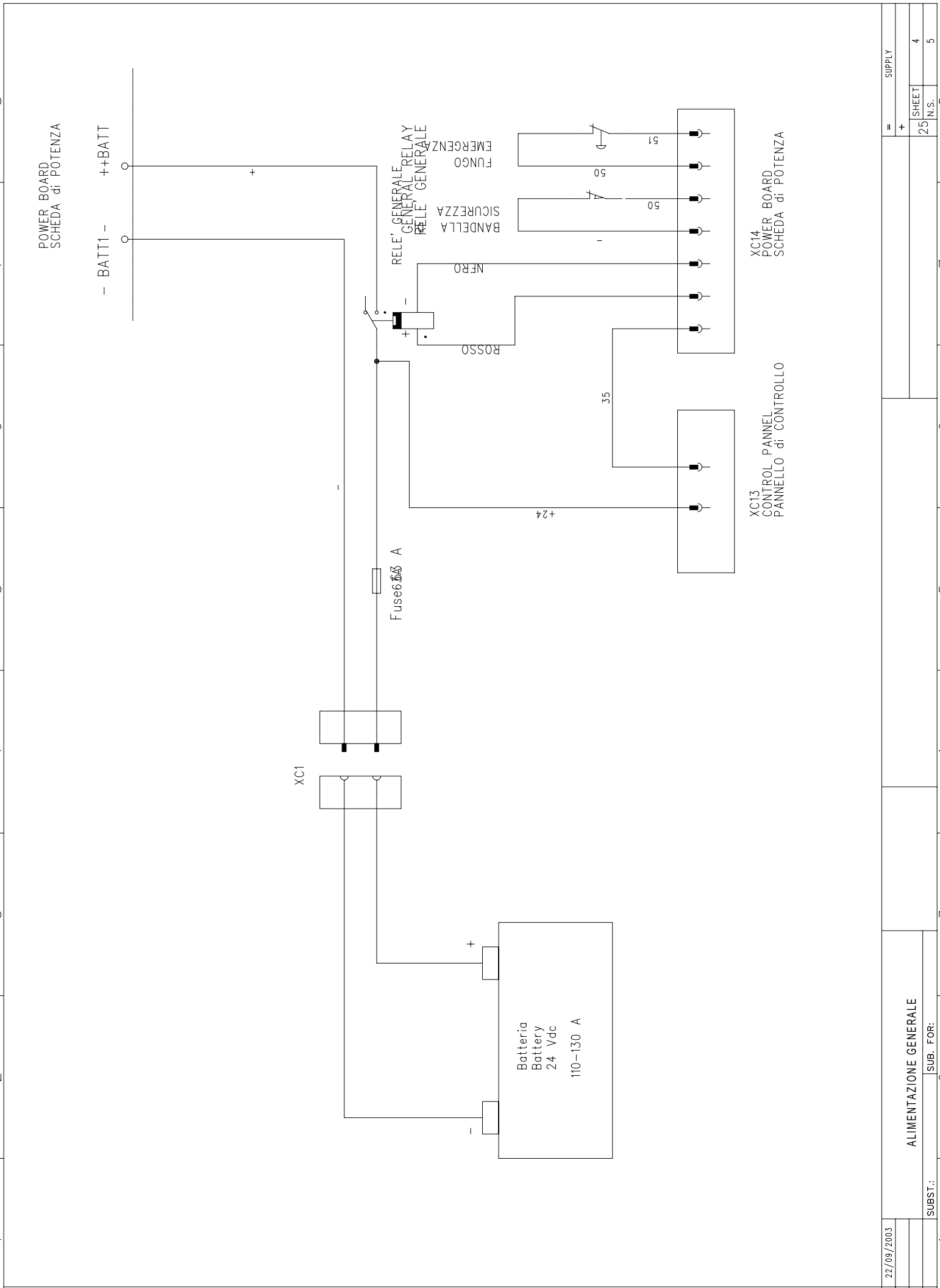
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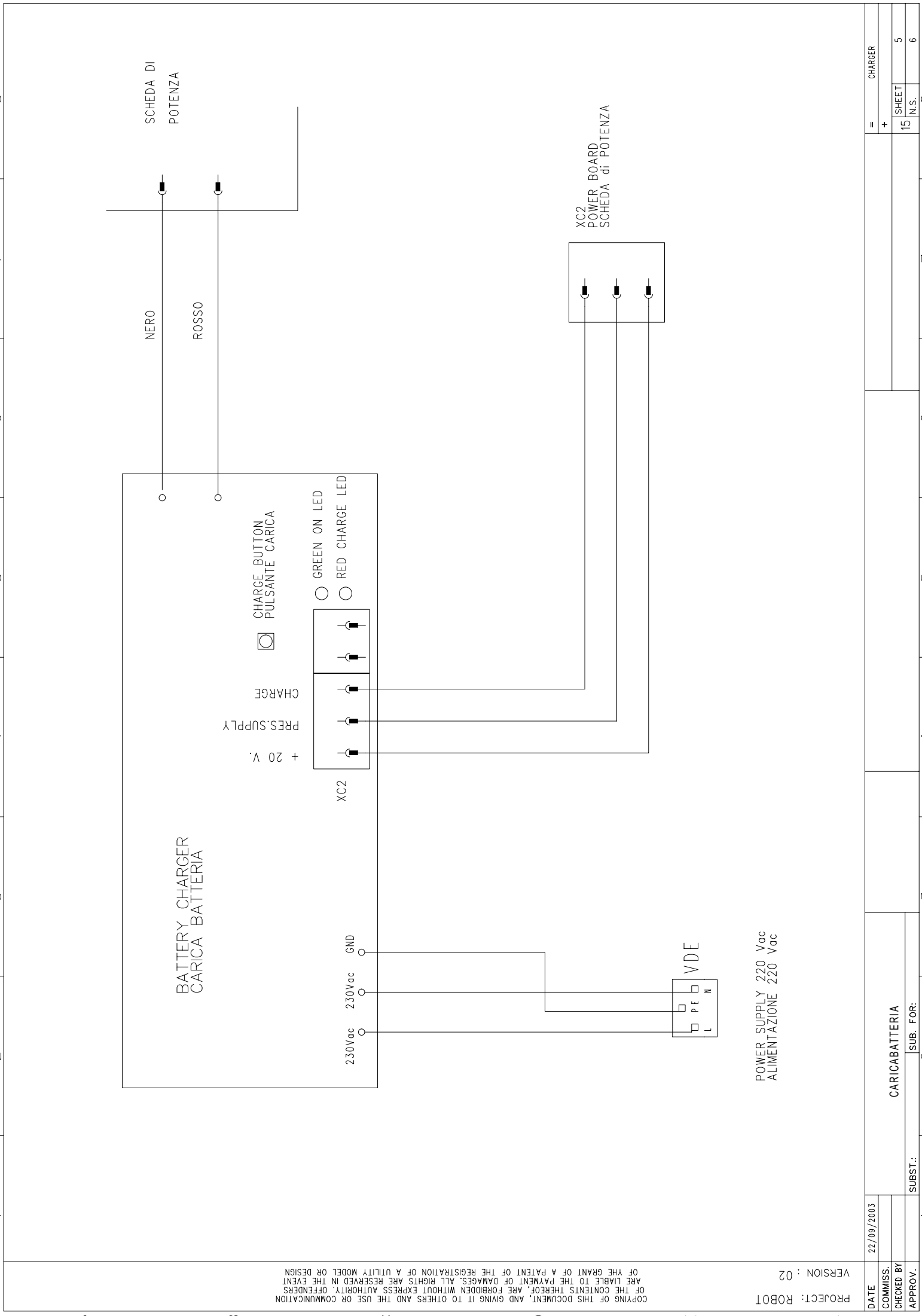
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DATE	22/09/2003	ALIMENTAZIONE GENERALE		=		SUPPLY	
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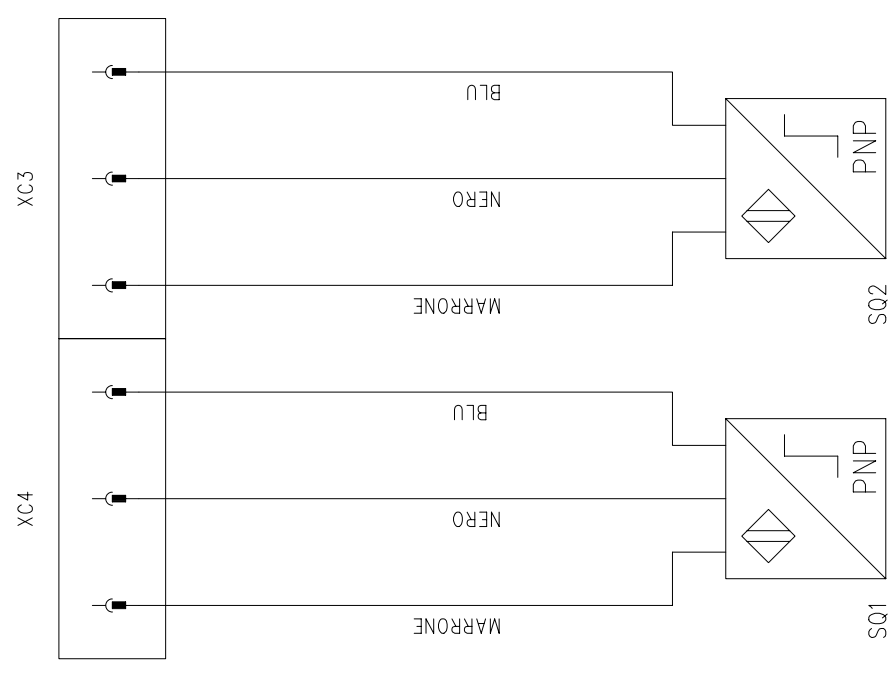


POWER SUPPLY 220 Vac
ALIMENTAZIONE 220 Vac

PROJECT: ROBOT
VERSION : 02

DATE	22/09/2003									= CHARGER	
COMMISS.		CARICABATTERIA								+	
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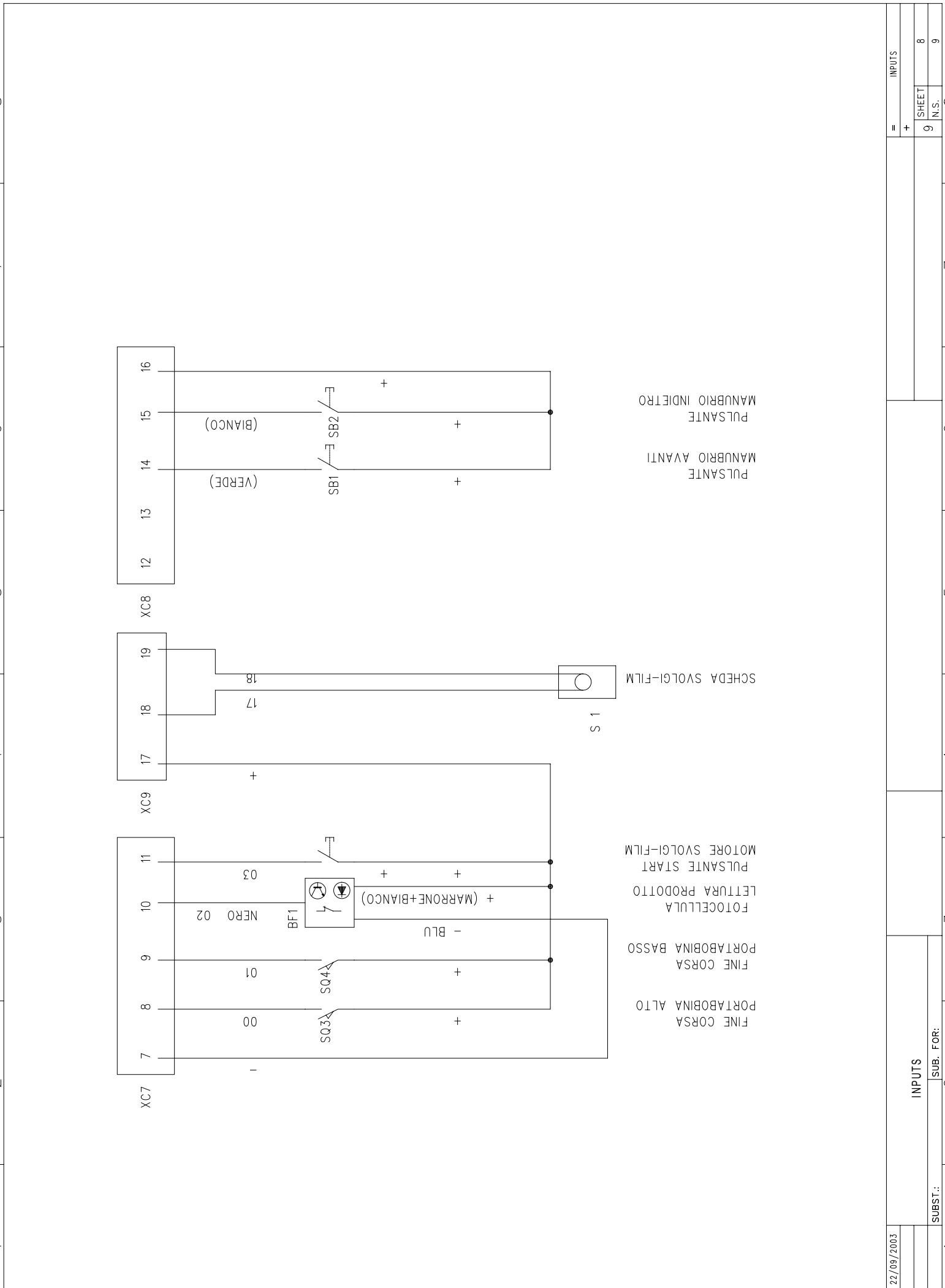
CONTROL BOARD
 SCHEDA di CONTROLLO



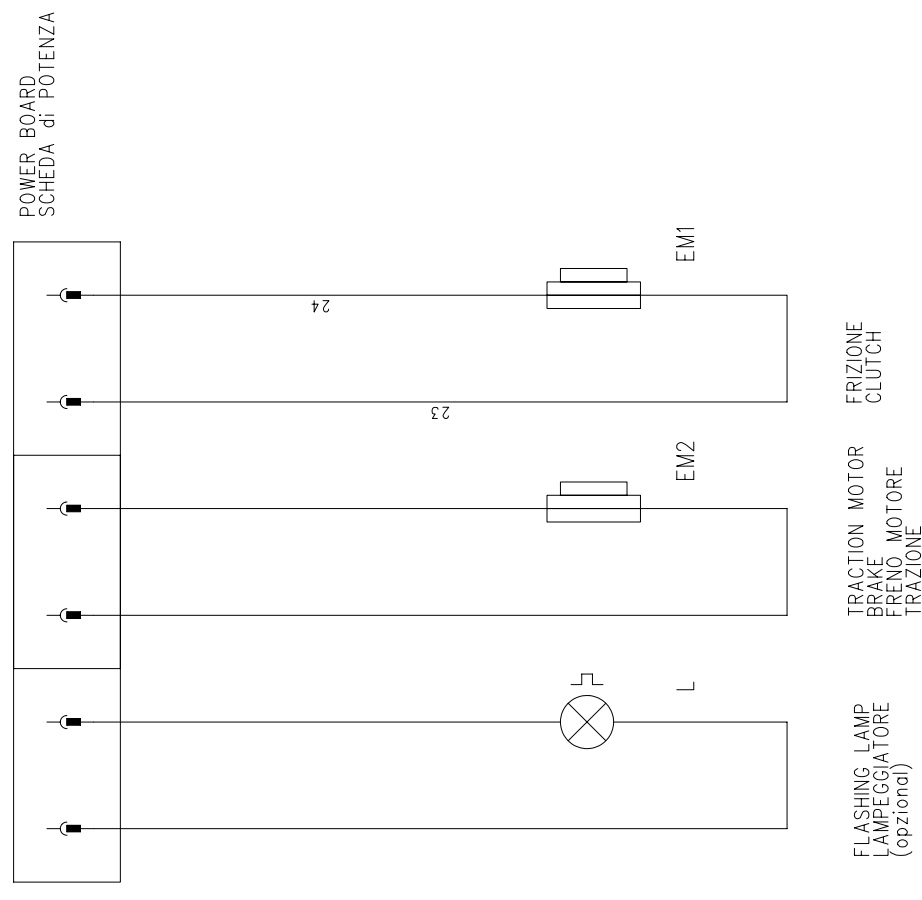
TRACTION SPEED SENSOR
 SENSORE VELOCITA' TRAZIONE

CARRIAGE SPEED SENSOR
 SENSORE VELOCITA' CARRELLO

DATE	22/09/2003									= MOTOR SENSORS	
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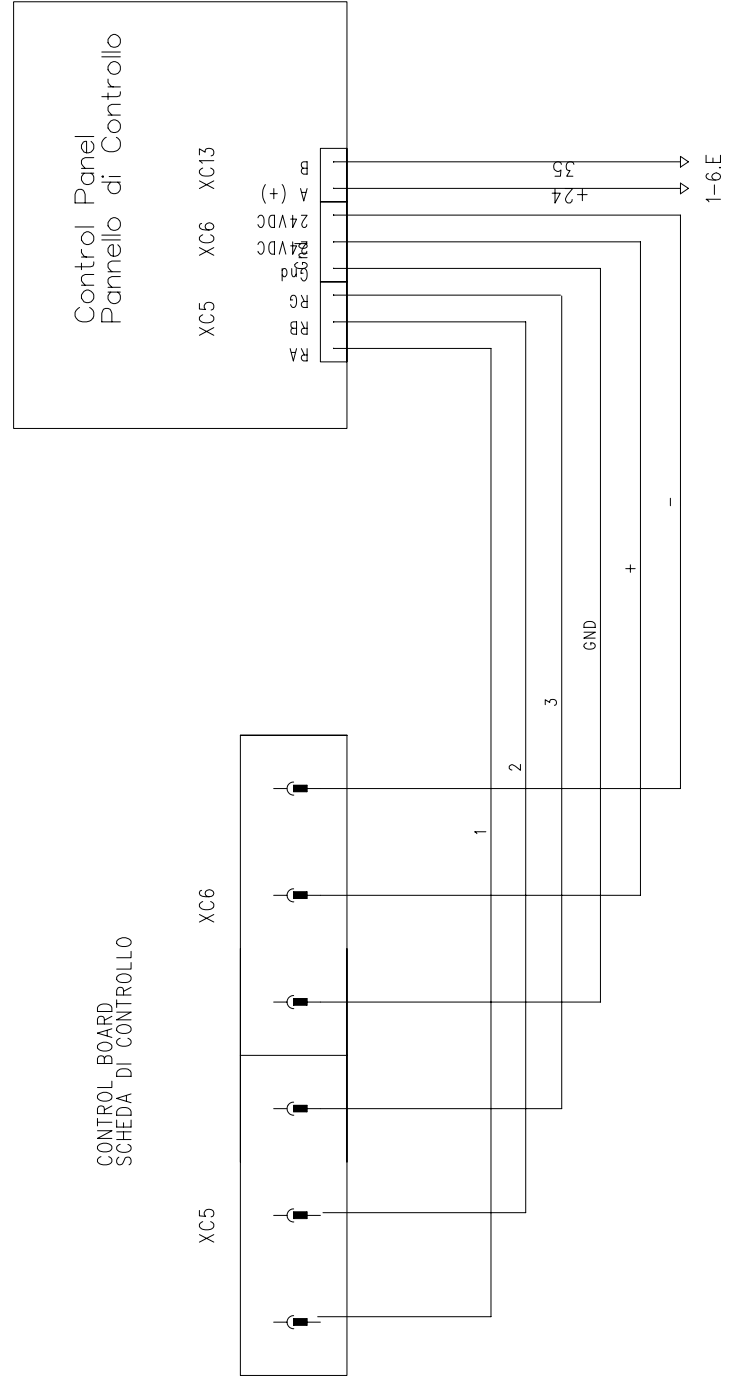
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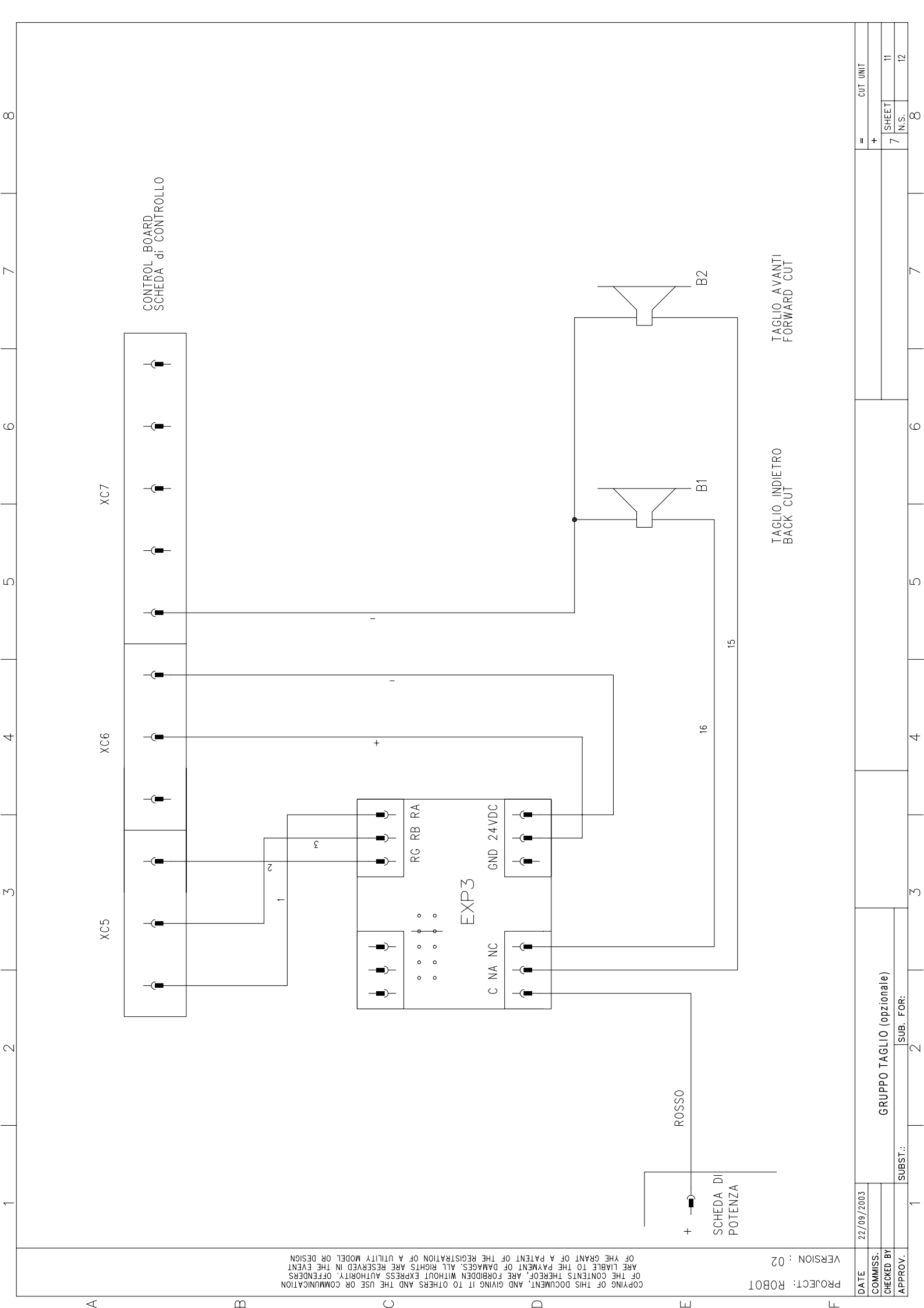
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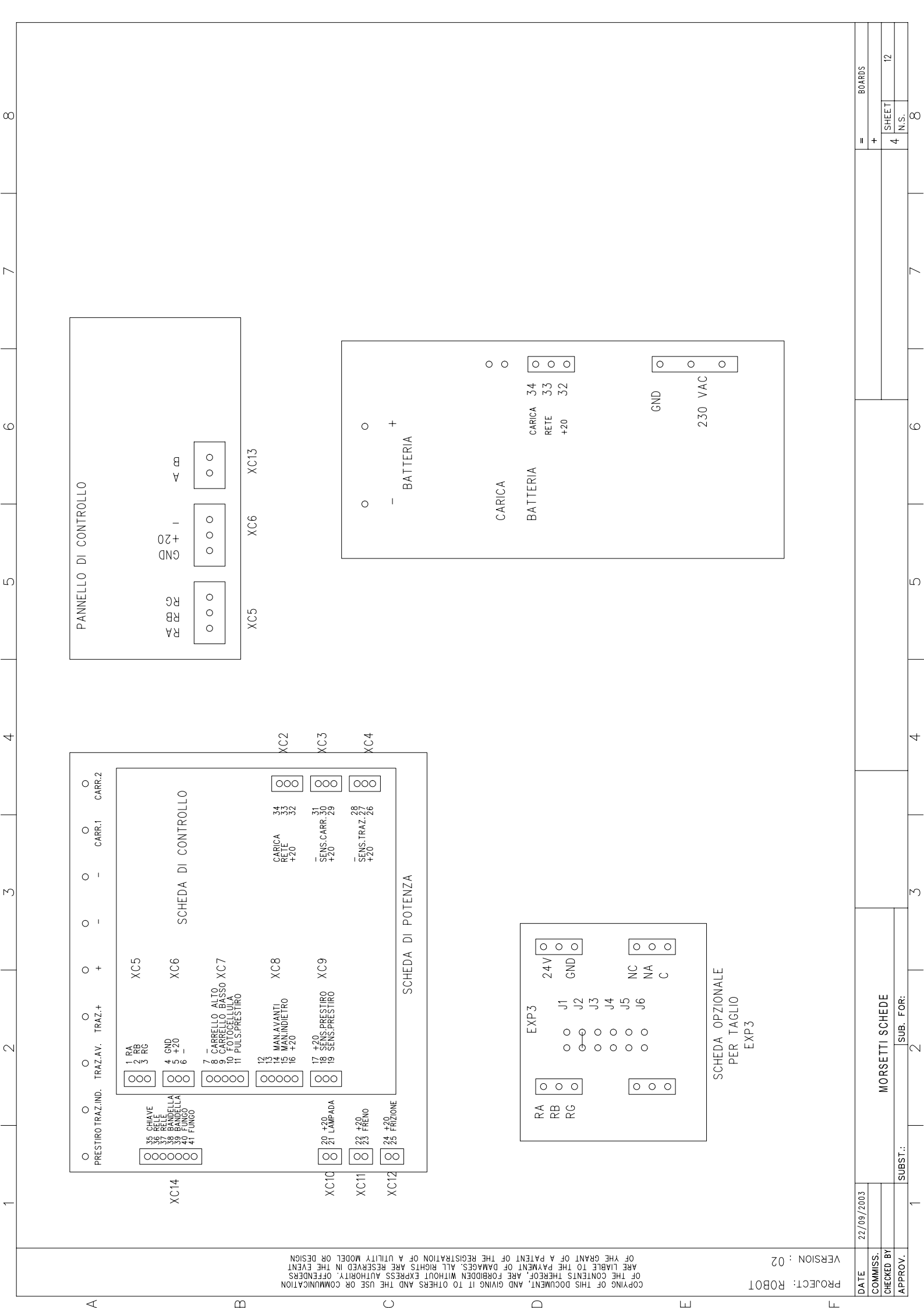


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PROJECT: ROBOT
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DATE	22/09/2003	GRUPPO TAGLIO (opzionale)		CUT UNIT	
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DATE	22/09/2003	MORSETTI SCHEDE	=	BOARDS	8
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