

Mazak

ELECTRIC DIAGRAM

QUICK TURN SMART 200/200M

QUICK TURN SMART 250/250M

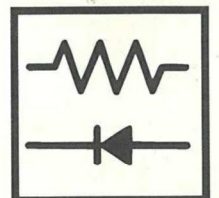
QUICK TURN SMART 300/300M

QUICK TURN SMART 350/350M

MANUAL NO.

DDB07090027A

ELECTRIC DIAGRAM





ELECTRIC DIAGRAM

QUICK TURN SMART 200/200M
QUICK TURN SMART 250/250M
QUICK TURN SMART 300/300M
QUICK TURN SMART 350/350M

MANUAL NO.	DDB07090027A
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MANUAL NO.

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No.	ITEM	SPECIFICATION
1	MACHINE TYPE	QUICK TURN SMART 200/250/300/350
2	MACHINE No.	JPN/YMC/YME
3	CNC TYPE	MAZATROL SMART
4	PLC ROM No.	
5	AUX ROM No.	
6	SPINDLE 1 TYPE	QT-S200 : SJ-4B6612TK QT-S200(OP.)/S250 MILL SPEC : SJ-4B6714TK
7	SPINDLE 1 TYPE	QT-S300/S300-MILL SPEC : SJ-4B6712TK QT-S300(OP.)/S350 SERIES : SJ-4B6913TK
8		
9		
10		

APR'D BY	CHK'D BY	DRWN BY
中小型旋盤制御  '13.06.25 T. MIZUNO	中小型旋盤制御  '13.06.25 T. OKUTSU	中小型旋盤制御  '13.06.25 Y. FUJIWARA

Remarks	
(*18) EXCHANGED DDB07090017	(*23) EXCHANGED DDB07090022
(*19) EXCHANGED DDB07090018	(*24) EXCHANGED DDB07090023
(*20) EXCHANGED DDB07090019	(*25) EXCHANGED DDB07090024
(*21) EXCHANGED DDB07090020	(*26) EXCHANGED DDB07090025
(*22) EXCHANGED DDB07090021	(*27) EXCHANGED DDB07090026

Option

No.	DRAWING NUMBER	TITLE	REMARK
1	B07090100015	ELECTRICAL CAPACITY LIST	(*6) (*10) (*14) (*18)
2	B07090100030	BLOCK LINE DRAWING (11kW JPN) (S100 S)	(*5) (*10)
3	B07090100040	BLOCK LINE DRAWING (11kW YMC) (S100 S)	(*5) (*10)
4	B07090100050	BLOCK LINE DRAWING (11kW YME) (S100 S)	(*5) (*10)
5	B07090100060	BLOCK LINE DRAWING (15kW JPN) (S150 S)	(*5) (*10)
6	B07090100070	BLOCK LINE DRAWING (15kW YMC) (S150 S)	(*5) (*10)
7	B07090100080	BLOCK LINE DRAWING (15kW YME) (S150 S)	(*5) (*10)
8	B07090100105	BLOCK LINE DRAWING (15kW JPN)	(*7) (*10) (*13) (*22) (*27)
9	B07090100114	BLOCK LINE DRAWING (15kW YMC)	(*7) (*10) (*22) (*27)
10	B07090100124	BLOCK LINE DRAWING (15kW YME)	(*7) (*10) (*22) (*27)
11	B07090100136	BLOCK LINE DRAWING (18.5kW JPN)	(*10) (*13) (*14) (*22) (*27)
12	B07090100145	BLOCK LINE DRAWING (18.5kW YMC)	(*7) (*10) (*14) (*22) (*27)
13	B07090100155	BLOCK LINE DRAWING (18.5kW YME)	(*7) (*10) (*14) (*22) (*27)
14	B07090100166	BLOCK LINE DRAWING (18.5kW MILL JPN)	(*10) (*13) (*14) (*22) (*27)
15	B07090100175	BLOCK LINE DRAWING (18.5kW MILL YMC)	(*7) (*10) (*14) (*22) (*27)
16	B07090100185	BLOCK LINE DRAWING (18.5kW MILL YME)	(*7) (*10) (*14) (*22) (*27)
17	B07090100192	BLOCK LINE DRAWING (26kW JPN) (S250 OP.)	(*14) (*22) (*27)
18	B07090100202	BLOCK LINE DRAWING (26kW YMC) (S250 OP.)	(*14) (*22) (*27)
19	B07090100212	BLOCK LINE DRAWING (26kW YME) (S250 OP.)	(*14) (*22) (*27)
20	B07090100222	BLOCK LINE DRAWING (26kW MILL JPN) (S250 OP.)	(*14) (*22) (*27)
21	B07090100232	BLOCK LINE DRAWING (26kW MILL YMC) (S250 OP.)	(*14) (*22) (*27)
22	B07090100242	BLOCK LINE DRAWING (26kW MILL YME) (S250 OP.)	(*14) (*22) (*27)
23	B07090100256	BLOCK LINE DRAWING (26kW JPN) (S300 STD.)	(*10) (*12) (*13) (*14) (*27)
24	B07090100265	BLOCK LINE DRAWING (26kW YMC) (S300 STD.)	(*1) (*10) (*12) (*14) (*27)
25	B07090100275	BLOCK LINE DRAWING (26kW YME) (S300 STD.)	(*1) (*10) (*12) (*14) (*27)

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No.	DRAWING NUMBER	TITLE	REMARK
26	B07090100285	BLOCK LINE DRAWING (26kW MILL JPN) (S300 STD.)	(*10) (*12) (*13) (*14) (*27)
27	B07090100294	BLOCK LINE DRAWING (26kW MILL YMC) (S300 STD.)	(*8) (*10) (*12) (*14) (*27)
28	B07090100304	BLOCK LINE DRAWING (26kW MILL YME) (S300 STD.)	(*8) (*10) (*12) (*14) (*27)
29	B07090100317	BLOCK LINE DRAWING (30kW JPN)	(*10) (*12) (*13) (*14) (*27)
30	B07090100326	BLOCK LINE DRAWING (30kW YMC)	(*4) (*10) (*12) (*14) (*27)
31	B07090100335	BLOCK LINE DRAWING (30kW YME)	(*1) (*10) (*12) (*14) (*27)
32	B07090100345	BLOCK LINE DRAWING (30kW MILL JPN)	(*10) (*12) (*13) (*14) (*27)
33	B07090100354	BLOCK LINE DRAWING (30kW MILL YMC)	(*8) (*10) (*12) (*14) (*27)
34	B07090100364	BLOCK LINE DRAWING (30kW MILL YME)	(*8) (*10) (*12) (*14) (*27)
35	B07090100405	BLOCK LINE DRAWING (AC 100V)	(*10) (*18) (*19) (*20)
36	B07090100460	BUS LINE (S100/150 S 2AXIS TAIL SPEC.)	(*5) (*10)
37	B07090100471	BUS LINE (S100/150 S MILL TAIL SPEC.)	(*5) (*8) (*10)
38	B07090100480	BUS LINE (S100/150 S 2AXIS NO TAIL SPEC.)	(*5) (*10)
39	B07090100491	BUS LINE (S100/150 S MILL NO TAIL SPEC.)	(*5) (*8) (*10)
40	B07090100504	BUS LINE (S200/S250 2AXIS)	(*1) (*14) (*17) (*22)
41	B07090100517	BUS LINE (S200/S250 MILL)	(*14) (*17) (*22) (*26) (*27)
42	B07090100522	BUS LINE (S300/350 2AXIS)	(*1) (*17) (*23)
43	B07090100535	BUS LINE (S300/350 MILL)	(*8) (*17) (*23) (*26) (*27)
44	B07090100544	REMOTE I/O CONNECTION	(*2) (*6) (*8) (*22)
45	B07090100710	PLC PARAMETER (TIM1-TIM72)	(*3)
46	B07090100720	PLC PARAMETER (TIM73-TIM144)	(*3)
47	B07090100730	PLC PARAMETER (TIM145-TIM168)	(*3)
48	B07090100740	PLC PARAMETER (RS1-RS60)	(*3)
49	B07090100750	PLC PARAMETER (RS61-RS120)	(*3)
50	B07090100760	PLC PARAMETER (RS121-RS168)	(*3)
51	B07090100770	PLC PARAMETER (RL1-RL48)	(*3)
52	B07090100780	PLC PARAMETER (RB1-RB8)	(*3)
53	B07090100790	PLC PARAMETER (RB9-RB16)	(*3)
54	B07090100800	PLC PARAMETER (RB17-RB24)	(*3)
55	B07090100810	PLC PARAMETER (RB25-RB32)	(*3)
56	B07090100820	PLC PARAMETER (RB33-RB40)	(*3)
57	B07090100830	PLC PARAMETER (RB41-RB48)	(*3)
58	B07090100840	PLC PARAMETER (RB49-RB56)	(*3)
59	B07090100850	PLC PARAMETER (RB57-RB64)	(*3)
60	B07090100860	PLC PARAMETER (RB65-RB72)	(*3)

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No.	DRAWING NUMBER	TITLE	REMARK
61	B07090100870	PLC PARAMETER (RB73-RB80)	(*3)
62	B07090100880	PLC PARAMETER (RB81-RB88)	(*3)
63	B07090300012	TOTAL VIEW (1) (S200)	(*3) (*4) (*15)
64	B07090300021	TOTAL VIEW (2) (S200)	(*3) (*4)
65	B07090300030	TURRET	(*3)
66	B07090300040	TOOL EYE	(*3)
67	B07090300051	AIR KIT / HYDRAULIC PUMP	(*3) (*15)
68	B07090300060	CHUCK MANIFOLD	(*3)
69	B07090300111	TOTAL VIEW (1) (S300/350)	(*4) (*15)
70	B07090300120	TOTAL VIEW (2) (S300/350)	(*4)
71	B07090400018	LINE POWER SUPPLY (JPN)	(*13) (*14) (*15) (*25) (*27)
72	B07090400025	LINE POWER SUPPLY (JPN) 1	(*4) (*13) (*14) (*25) (*27)
73	B07090400034	LINE POWER SUPPLY (JPN) 2	(*4) (*14) (*15) (*25)
74	B07090400047	LINE POWER SUPPLY (YMC/OTH)	(*10) (*14) (*15) (*25) (*27)
75	B07090400056	LINE POWER SUPPLY (YME)	(*10) (*14) (*15) (*25)
76	B0709040006B	AC200V/100V CIRCUIT	(*14) (*15) (*22) (*25)
77	B07090400072	AC200V/100V CIRCUIT (S300M/350M)	(*12) (*15) (*25)
78	B07090400084	AC100V/DC24V CONTROL CIRCUIT	(*9) (*12) (*15) (*25)
79	B07090400096	CONTROL BOX & AMP COOLING FAN	(*19) (*20) (*21) (*22)
80	B07090400103	WORK LIGHT	(*1) (*5) (*14)
81	B07090400118	POWER SUPPLY UNIT (S200)	(*6) (*10) (*14) (*25)
82	B07090400124	POWER SUPPLY UNIT (S300/350)	(*4) (*6) (*14) (*25)
83	B07090400166	MAIN SPINDLE DRIVE	(*6) (*9) (*10) (*14)
84	B07090400171	MAIN SP FEED BACK (2 AXIS SPEC)	(*9)
85	B07090400180	MAIN SP FEED BACK (MILL SPEC)	(*6)
86	B07090400194	MILL SPINDLE (S200M/S250M)	(*8) (*10) (*12) (*14)
87	B07090400200	MILL SPINDLE (S300M/S350M)	(*12)
88	B07090400215	X-AXIS SERVO MOTOR & ENCODER	(*2) (*4) (*10) (*14)
89	B07090400228	Z-AXIS SERVO MOTOR & ENCODER	(*9) (*10) (*14) (*19)
90	B07090400235	TAIL SERVO MOTOR & ENCODER	(*2) (*4) (*10) (*14)
91	B07090400266	TURRET SERVO MOTOR & ENCODER	(*4) (*5) (*10) (*14)
92	B07090400291	X/Z-AXIS HEINDENHAIN SCALE (OP.)	(*13) (*14)
93	B07090400312	REMOTE I/O COMMON LINE	(*2) (*4)
94	B07090400323	REMOTE I/O COMMON LINE (OPTION)	(*2) (*7) (*22)
95	B07090400330	REMOTE I/O COMMON LINE (SPINDLE)	

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No.	DRAWING NUMBER	TITLE	REMARK
96	B07090400340	REMOTE I/O COMMON LINE (CONVEYOR)	(*22)
97	B07090400361	GREASE PUMP MOTOR	(*13)
98	B07090400370	LUBE PUMP MOTOR & SENSOR	
99	B07090400381	AIR KIT PANEL (1)	(*27)
100	B07090400411	HYDRAULIC PUMP MOTOR	(*10)
101	B07090400424	SPINDLE COOLING FAN (AIR COOLING)	(*2) (*4) (*10)
102	B07090400434	SPINDLE COOLING FAN (LLC COOLING)	(*1) (*2) (*4) (*14)
103	B07090400444	SPINDLE COOLING PUMP (LLC COOLING)	(*1) (*2) (*4) (*14)
104	B07090400466	COOLANT PUMP MOTOR	(*6) (*8) (*10) (*14)
105	B07090400477	CHIP CONVEYOR (OP.)	(*10) (*12) (*14) (*25) (*27)
106	B07090400480	INVERTER CHIP CONVEYOR I/F (OP.)	
107	B07090400510	TOOL EYE (1) (JPN:OP. EX:STD.)	
108	B07090400520	TOOL EYE (2) (JPN:OP. EX:STD.)	
109	B07090400541	THERMOMETER ANALOG INPUT (1500U)	(*24) (*25)
110	B07090400550	THERMOMETER ANALOG INPUT (S300)	(*12) (*25)
111	B07090400566	THERMOMETER ANALOG INPUT (S200/250/M)	(*10) (*12) (*14) (*19)
112	B07090400571	THERMOMETER ANALOG INPUT (S300M)	(*12) (*13) (*25)
113	B07090400583	EMERGENCY STOP CIRCUIT (1)	(*1) (*22) (*25)
114	B07090400593	EMERGENCY STOP CIRCUIT (2)	(*22) (*25) (*26)
115	B07090400604	EMERGENCY STOP CIRCUIT (3) (DANAHER)	(*4) (*22) (*25) (*26)
116	B07090400613	DOOR INTERLOCK CIRCUIT (1) (DANAHER)	(*1) (*7) (*25)
117	B07090400622	DOOR INTERLOCK CIRCUIT (2)	(*22) (*25)
118	B07090400642	ALARM CIRCUIT	(*1) (*2)
119	B07090400661	MAIN SPINDLE CHUCK	(*27)
120	B07090400670	C-AXIS BRAKE & CLAMP SOL.	(*6)
121	B07090400700	Mazak IHC NEKSUT ESI	
122	B07090400713	OPERATING BOX (NC CONTROL)	(*1) (*2) (*16) (*23)
123	B07090400722	OPERATING BOX INPUT (1)	(*1) (*22)
124	B07090400733	OPERATING BOX INPUT (2)	(*1) (*2) (*4)
125	B07090400743	OPERATING BOX INPUT (3)	(*1) (*2) (*7)
126	B07090400751	OPERATING BOX INPUT (4)	(*1)
127	B07090400762	OPERATING BOX OUTPUT (1)	(*1) (*2)
128	B07090400772	OPERATING BOX OUTPUT (2)	(*1) (*2) (*6)
129	B07090400780	NETWORK I/F	
130	B07090400792	RS-232C I/F	(*2) (*22)

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No.	DRAWING NUMBER	TITLE	REMARK
131	B07090400800	SKIP SIGNAL SPARE	(*6)
132	B07090400813	MAIN BREAKER SHUNT TRIP	(*1) (*4) (*22)
133	B07090400820	ADDITIONAL M CODE (OP.)	
134	B07090400836	INDICATOR LIGHT (OP.)	(*13) (*14) (*15) (*16) (*22)
135	B07090400841	AUTO POWER ON/OFF & WARM UP (OP.)	(*2)
136	B07090400852	PARTS CATCHER (OP.)	(*7) (*25)
137	B07090400860	WORK CONVEYOR (OP.)	
138	B07090400870	MIST COLLECTOR (OP.)	
139	B07090400891	WORK REST (OP.)	(*1) (*9)
140	B07090400900	AUTO DOOR (1) (OP.)	(*7)
141	B07090400911	AUTO DOOR (2) (OP.)	(*7) (*10)
142	B07090400920	AUTO DOOR SAFETY SWITCH (OP.)	(*7)
143	B07090400931	WORK MESURING UNIT (1)	(*13) (*18)
144	B07090400940	WORK MESURING UNIT (2)	(*18)
145	B07090400950	TOP DOOR	(*22)
146	B07090400960	HIGH EFFICIENCY HYDRAULIC UNIT (OP.)	(*13)
147	B07090400980	OPTION POWER METER	(*13)
148	B07090401011	HIGH PRS. COOLANT (1) (SUPER FLOW USA)	(*1) (*4)
149	B07090401022	HIGH PRS. COOLANT (2) (SUPER FLOW USA)	(*1) (*9) (*27)
150	B07090401110	IKURA BAR FEEDER I/F (1) (OP.)	(*1) (*4)
151	B07090401121	IKURA BAR FEEDER I/F (2) (OP.)	(*1) (*4)
152	B07090401130	ALPS BAR FEEDER I/F (1) (OP.)	(*1)
153	B07090401142	ALPS BAR FEEDER I/F (2) (OP.)	(*1) (*4) (*15)
154	B07090401151	YMU CYCLE BAR FEEDER I/F (1) (OP.)	(*1) (*25)
155	B07090401160	YMU CYCLE BAR FEEDER I/F (2) (OP.)	(*1)
156	B07090401170	YMC BAR FEEDER I/F (1) (OP.)	(*1)
157	B07090401180	YMC BAR FEEDER I/F (2) (OP.)	(*1)
158	B07090401191	YMC BAR FEEDER I/F (3) (OP.)	(*1)
159	B07090401212	GANTRY ROBOT I/F (GL35F)	(*22) (*26) (*27)
160	B07090401220	RS-232C I/F (GANTRY LOADER)	(*22)
161	B07090401401	ABS. BATTERY BOX UNIT (S200/S250)	(*17) (*22)
162	B07090401411	ABS. BATTERY BOX UNIT (S300/S350)	(*17) (*23)
163	B07090401801	REMOTE TERMINAL KIT MAZA-CARE TYPE5	(*16) (*22)
164	B07090401830	CYCLE FINISH LIGHT WITH BUZZER (OP.)	(*23)
165	B07090401840	3 COLORS LIGHT WITH BUZZER (OP.)	(*23)

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No.	DRAWING NUMBER	TITLE	REMARK
166	B07090401910	CYBER MONITOR (OP.)	(*6)
167	B07090401921	SAFETY RELAY UNIT (EUCHNER)	(*25) (*27)
168	B07090401931	EMERGENCY STOP CIRCUIT(3) (EUCHNER)	(*25) (*26)
169	B07090401940	DOOR INTERLOCK CIRCUIT(1) (EUCHNER)	(*25)
170	B0709050001D	PARTS ARRANGEMENT ON CONTROL BOX (S200/S250)	(*17) (*18) (*19) (*22) (*27)
171	B07090500027	PARTS ARRANGEMENT ON TRANS BOX (S200/S250)	(*13) (*14) (*21) (*25) (*27)
172	B07090500035	PARTS ARRANGEMENT ON AMP PANEL (S200/S250)	(*1) (*2) (*14) (*17) (*27)
173	B07090500047	PARTS ARRANGEMENT ON POWER PANEL (S200/S250)	(*4) (*7) (*14) (*23)
174	B07090500058	PARTS ARRANGEMENT ON POWER PANEL (S200/S250)	(*7) (*13) (*14) (*15)
175	B0709050006A	PARTS ARRANGEMENT ON CONTROL PANEL (S200/S250)	(*11) (*13) (*14) (*21)
176	B07090500079	PARTS ARRANGEMENT ON CONTROL PANEL (S200/S250)	(*7) (*13) (*14) (*15)
177	B07090500082	PARTS ARRANGEMENT ON CONTROL PANEL (S200/S250)	(*13) (*14) (*16)
178	B07090500094	PARTS ARRANGEMENT ON BASE PANEL (S200/S250)	(*1) (*3) (*13) (*14)
179	B07090500107	PARTS ARRANGEMENT ON OPTION PANEL (S200/S250)	(*7) (*13) (*14) (*17)
180	B07090500118	PARTS ARRANGEMENT ON CONTROL BOX (S300/S350)	(*10) (*13) (*17) (*20) (*27)
181	B07090500124	PARTS ARRANGEMENT ON AMP PANEL (S300/S350)	(*1) (*2) (*8) (*17) (*27)
182	B07090500137	PARTS ARRANGEMENT ON POWER PANEL (S300/S350)	(*8) (*10) (*12) (*23)
183	B07090500146	PARTS ARRANGEMENT ON POWER PANEL (S300/S350)	(*4) (*10) (*13) (*15)
184	B07090500158	PARTS ARRANGEMENT ON CONTROL PANEL (S300/S350)	(*11) (*13) (*21) (*26)
185	B07090500167	PARTS ARRANGEMENT ON CONTROL PANEL (S300/S350)	(*6) (*10) (*13) (*15)
186	B07090500171	PARTS ARRANGEMENT ON CONTROL PANEL (S300/S350)	(*13) (*16)
187	B07090500183	PARTS ARRANGEMENT ON BASE PANEL (S300/S350)	(*1) (*3) (*8) (*13)
188	B07090500195	PARTS ARRANGEMENT ON OPTION PANEL (S300/S350)	(*4) (*10) (*13) (*17)
189	B07090500203	PARTS ARRANGEMENT ON TRANS BOX (S300/S350)	(*4) (*13) (*21) (*27)
190	B07090500215	TERMINAL BLOCK LAYOUT (CONTROL BOX)	(*5) (*7) (*13) (*22)
191	B07090500228	EARTH TERMINAL LAYOUT	(*5) (*7) (*13) (*18)
192	B07090500239	CABLE OUTLET LAYOUT	(*6) (*7) (*13) (*14) (*27)
193	B07090500271	PARTS ARRANGEMENT ON DOOR	(*17) (*23)
194	B07090500316	PARTS ARRANGEMENT ON SPINDLE BOX (S200/S250)	(*7) (*14) (*17) (*25)
195	B07090500323	TERMINAL BLOCK LAYOUT (SPINDLE BOX) (S200/S250)	(*1) (*5) (*10) (*14)
196	B07090500365	PARTS ARRANGEMENT ON SPINDLE BOX (S300/S350)	(*2) (*7) (*8) (*17)
197	B07090500370	TERMINAL BLOCK LAYOUT (SPINDLE BOX) (S300/S350)	(*1)
198			
199			
200			