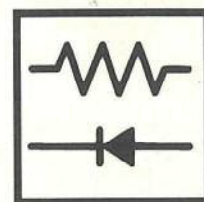


Mazak

# ELECTRIC WIRING DIAGRAM



**Mazak**

***ELECTRICAL  
CIRCUIT DIAGRAMS***

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MANUAL NO. DD52904200BA

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MANUAL NO. DL529LEK000A

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

# ELEMENTARY DIAGRAM LIST

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SET No. : DD 52904200B

APR'D BY	CHK'D BY	DRWN BY
		

No.	ITEM	SPECIFICATION
1	MACHINE TYPE	FJV250, SMM2500
2	MACHINE No.	JPN/EX (STD)
3	CNC TYPE	M640M
4	SPINDLE TYPE	12000RPM (22KW) (25000RPM: OPTION)
5	PLC ROM No.	460W529-EK000~
6	AUX. 1 ROM No.	
7	AUX. 2 ROM No.	
8		

Remarks	 : ADDITIONAL
	 : CHANGE
DD52904200A → DD52904200B	

Option
SPINDLE 25000RPM (22, 30KW), HIGH TORQUE SPINDLE
HIGH PRESS THROUGH, BASE COOLANT, NIAGARA COOLANT
OIL SKIMMER, SHOW LIGHT, MMS, MIST COLLECTOR, 2PC
MAGNE SCALE, M CODE, 4TH AXIS, CHIP CONVEYOR etc

No.	DRAWING NUMBER	TITLE
1	529042100100	POWER LINE CONNECTION DIAGRAM (1)
2	529042100110	POWER LINE CONNECTION DIAGRAM (2)
3	529042100200	POWER LINE CONNECTION DIAGRAM (3)
4		
5	529042302701	CONNECTION DIAGRAM (NC)
6	529042302802	CONNECTION DIAGRAM (SV, SP)
7	529042302811	CONNECTION DIAGRAM (SV, SP) 30KW
8	529042303002	CONTROL BOX (BACK PLATE)
9	529042303100	CONTROL BOX (TOP & BACK PLATE)
10	529042303200	CONTROL BOX (FLOOR PLATE)
11	529042303300	JB11 BOX
12	529042303500	SUB TANK BOX (JB41) (OPTION)
13	529042303510	SUB TANK BOX (JB41) (COOLANT CHILLER OPTION)
14	529042303520	MAIN TANK BOX (JB42) (CONCEP 2000 OPTION)
15	529042303603	SADDLE BOX (JB51)
16	529042303622	SPINDLE BOX (JB52)
17	529042303700	MAG. & ATC BOX (JB61)
18	529042303800	2PC BOX (JB91) (2PC OPTION)
19	529042304001	COMPONENTS LAYOUT
20	529042304011	COMPONENTS LAYOUT (2PC)
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22		
23		
24		
25		

# ELEMENTARY DIAGRAM LIST

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SET No. : DD 52904200B

No.	DRAWING NUMBER	TITLE
26	529042500103	ELECTRIC CABINET LAYOUT
27	529042500114	ELECTRIC CABINET LAYOUT LIST
28	529042500201	POWER PANEL 1 LAYOUT
29	529042500213	POWER PANEL 1 LAYOUT LIST
30	529042500323	POWER PANEL 2 LAYOUT
31	529042500339	POWER PANEL 2 LAYOUT LIST
32	529042500401	CONTROL PANEL LAYOUT
33	529042500411	CONTROL PANEL LAYOUT LIST
34	529042500500	SUB AMP PANEL LAYOUT
35	529042500510	SUB AMP PANEL LAYOUT LIST
36	529042500603	CE(OPTION) PANEL LAYOUT
37	529042500615	CE(OPTION) PANEL LAYOUT LIST
38	529042500701	REACTOL PLATE
39	529042500804	OPTION PANEL 2 LAYOUT
40	529042501002	XT2 LAYOUT
41	529042501022	XT5 LAYOUT (OPTION)
42	529042501100	FLEX PLATE LAYOUT (TOP)
43	529042501124	FLEX PLATE (BACK)
44	529042501131	FLEX PLATE (BOTTOM)
45	529042501200	OPERATING BOX BLACKET
46	529042503000	JB11 BOX CABLE LAYOUT1
47	529042503201	SUB TANK BOX (OPTION)
48	529042503210	SUB TANK BOX (COOLANT CHILLER OPTION)
49	529042503220	JB42 BOX LAYOUT (CONCEP 2000 OPTION)
50	529042503303	SADDLE BOX (JB51) LAYOUT 1
51	529042503310	SADDLE BOX (JB51) LIST
52	529042503401	SPINDLE BOX (JB52) CABLE LAYOUT 1
53	529042503412	SPINDLE BOX (JB52) CABLE LAYOUT 1 STD
54	529042503421	SPINDLE BOX (JB52) 25000/30000rpm
55	529042503502	MAG. & ATC BOX (JB61) CABLE LAYOUT
56	529042503541	2PC BOX LAYOUT 1/2 (2PC OPTION)
57	529042503550	2PC BOX LAYOUT 2/2 (2PC OPTION)
58	529042503611	JB51 BOX REMOTE I/O (AP20)
59	529042503620	MAG&ATC BOX (JB61) REMOTE I/O (AP40)
60	529042503632	CONTROL BOX REMOTE I/O (AP12) (2PC etc)

# ELEMENTARY DIAGRAM LIST

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SET No. : DD 52904200B

No.	DRAWING NUMBER	TITLE
61	529042503640	MAG&ATC BOX (JB61) REMOTE I/O (HSK OP.)
62	529042503800	AP2 T.U LAYOUT
63	529042400112	MAIN TRANSFORMER (EXPORT)
64	529042400121	MAIN TRANSFORMER (JAPAN)
65	529042400200	BREAKER TRIP (CABINET DOOR)
66	529042400401	LINE POWER SUPPLY AC200V LINE
67	529042400440	LINE POWER SUPPLY 2
68	529042400500	LINE POWER SUPPLY
69	529042400510	LINE POWER SUPPLY (SPINDLE 30KW)
70	529042400601	LINE POWER SUPPLY AC100V LINE
71	529042400630	WORK LIGHT
72	529042400701	REMOTE I/O UNIT 1
73	529042400711	REMOTE I/O UNIT 2 (2PC OPTION)
74	529042400720	REMOTE I/O UNIT 3 (HSK OPTION)
75	529042400800	MR-J2 BUS 2 (2PC OPTION)
76	529042401001	SPINDLE DRIVE (1) (12000rpm)
77	529042401011	SPINDLE DRIVE (2) (12000rpm)
78	529042401023	SPINDLE DRIVE (25000rpm OPTION)
79	529042401031	SPINDLE
80	529042401040	SPINDLE COOLING FAN (SPINDLE 30KW)
81	529042401100	X AXIS SERVO MOTOR
82	529042401110	X AXIS SERVO MOTOR&MAGNE SCALE CONNECTION (OP)
83	529042401200	Y AXIS SERVO MOTOR
84	529042401210	Y AXIS SERVO MOTOR&MAGNE SCALE CONNECTION (OP)
85	529042401300	Z AXIS SERVO MOTOR
86	529042401310	Z AXIS
87	529042401320	Z AXIS SERVO & MAGNE SCALE CONNECTION (OP)
88	529042401400	4TH AXIS SERVO MOTOR (OPTION)
89	529042401800	MAGAZINE SERVO MOTOR
90	529042401810	MAGAZINE
91	529042401901	ATC POWER LINE
92	529042401910	ATC
93	529042401920	ATC
94	529042401930	ATC
95	529042402000	ATC SHIFTER

# ELEMENTARY DIAGRAM LIST

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SET No. : DD 52904200B

No.	DRAWING NUMBER	TITLE
96	529042402100	ATC SHIFTER (HSK OPTION)
97	529042402303	COOLANT DISCHARGE PUMP (OPTION)
98	529042402403	BASE COOLANT (OPTION)
99	529042402502	FLOOD COOLANT
100	529042402511	FLOOD COOLANT (BASE or NIAGARA OP)
101	529042402522	FLOOD & THROUGH COOLANT
102	529042402600	SPINDLE THROUGH COOLANT
103	529042402703	NIAGARA COOLANT (OPTION)
104	529042402801	COOLANT CHILLER (OPTION)
105	529042402902	CHIP CONVEYER (OPTION)
106	529042402913	CHIP CONVEYER (CONCEP 2000 OPTION)
107	529042403002	HYDRAULIC MOTOR ON
108	529042403202	MAC OIL CONTROLLER
109	529042403211	MAC OIL SUPPLY UNIT 25000rpm(1/2)
110	529042403222	MAC OIL SUPPLY UNIT 25000rpm(2/2)
111	529042403230	MAC OIL SUPPLY UNIT 12000rpm(1/2)
112	529042403241	MAC OIL SUPPLY UNIT 12000rpm(2/2)
113	529042403301	HEAD LUBE PUMP
114	529042403310	SPIN SHOT SOL & PS (SPINDLE 30KW)
115	529042403400	WAY LUBE PUMP
116	529042403500	TOOL LENGTH MEASURE
117	529042403511	TOOL LENGTH MEASURE (FOR 2PC OPTION)
118	529042403601	THERMO METER ANALOG INPUT
119	529042403701	THERMAL TRIP
120	529042403800	SADDLE COOLING FAN
121	529042404000	OPERATING PANEL 1
122	529042404100	OPERATING PANEL 2
123	529042404200	OPERATING PANEL 3
124	529042404250	OPERATING PANEL MPG. BOX (OP)
125	529042404300	OPERATING PANEL 4
126	529042404400	OPERATING PANEL 5
127	529042404501	OPERATING PANEL AC OUTLET/RS232C I/F
128	529042405050	EMERGENCY STOP (1)
129	529042405101	MACHINE DOOR SAFETY (1)
130	529042405161	DOOR SAFETY (25000rpm OPTION)

# ELEMENTARY DIAGRAM LIST

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SET No. : DD 52904200B

No.	DRAWING NUMBER	TITLE
131	529042405300	2PC DOOR (2PC OPTION)
<del>132</del>	529042410002	MMS UNIT 1/2
133	529042410010	MMS UNIT 2/2
<del>134</del>	529042410024	MMS UNIT 1/2 (MP3) '99.3~
135	529042410031	MMS UNIT 2/2 (MP3) '99.3~
136	529042410100	REVOLVING LIGHT (+24V) (OPTION)
137	529042410112	PATO LIGHT WARM UP (OP)
138	529042410120	REVOLVING LIGHT (OPTION)
139	529042410204	MIST COLLECTOR (OPTION)
140	529042410300	COOLANT WIPER (OPTION)
141	529042410400	OIL MIST COOLANT (OPTION)
142	529042410700	NC ROTARY TABLE TSUDAKOMA ETC(OPTION)
143	529042410801	M CODE INDEX TABLE (OPTION)
144	529042410900	CHIP BLASTER 1 INTERFACE
<del>145</del>	529042410911	CHIP BLASTER 2 MOTOR STARTER
146	529042411101	SHOW LIGHT
147	529042411300	OIL SKIMMER (OPTION)
148	529042411401	COOLANT GUN (OPTION)
149	529042411500	X, Y AXIS BLOWER (OPTION)
150	529042413000	AUTO POWER OFF (OPTION)
151	529042413011	AUTO POWER ON/OFF (1) (OPTION)
152	529042413021	AUTO POWER ON/OFF (2) WARM UP & TRIP (OPTION)
153	529042420010	2PC SELECT MOTOR (2PC OPTION)
154	529042420020	2PC LOAD/UNLOAD MOTOR (2PC OPTION)
155	529042420100	PALLET CHANGER INPUT (2PC OPTION)
156	529042420110	PALLET CHANGER OUTPUT (2PC OPTION)
157	529042420120	2PC SWITCH BOX (2PC OPTION)
158	529042700110	NM64 OPERATING PANEL
159	529042700120	OPERATING PANEL LIST
160	529042700131	DOOR PANEL LAYOUT AUTO POWER OFF etc
161	529042700140	DOOR PANEL LAYOUT AUTO POWER ON/OFF (OP)
162	529042700201	HANDLE PANEL DATA I/O PANEL
163	529042700310	OPERATING PANEL BOTTOM VIEW
164	529042700400	MAG. PANEL (JB62)
165	529042700500	2PC PANEL (JB92) (2PC OPTION)

# ELEMENTARY DIAGRAM LIST

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SET No. : DD 52904200B

No.	DRAWING NUMBER	TITLE
166	529042101102	PLC PARAMETER LIST (1)
167	529042101202	PLC PARAMETER LIST (2)
168	529042101301	PLC PARAMETER LIST (3)
△169	529042101402	PLC PARAMETER LIST (4)
170	529042101513	PLC PARAMETER LIST (5)
171	529042101602	PLC PARAMETER LIST (6)
172	529042101703	PLC PARAMETER LIST (7)
173	529042101711	PLC PARAMETER LIST (8)
174	529042101801	PLC PARAMETER LIST (9)
175	529042101900	PLC PARAMETER LIST (10)
176	529042102000	PLC-CMN PARAMETER LIST (1)
177	529042102100	PLC-CMN PARAMETER LIST (2)
178	529042102201	PLC-CMN PARAMETER LIST (3)
179	529042102300	PLC-CMN PARAMETER LIST (4)
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