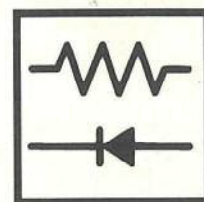


Mazak

# ELECTRIC WIRING DIAGRAM





# ***ELECTRICAL CIRCUIT DIAGRAMS***

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SET NO. DD529042004

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SET NO. DL529LEK000A

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# ELEMENTARY DIAGRAM LIST

PAGE 1/6

SET No. : DD529042004

APR'D BY	CHK'D BY	DRWN BY

No.	ITEM	SPECIFICATION
1	MACHINE TYPE	FJV250
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.	
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Remarks	
	:ADDITIONAL
	:CHANGE
DD529042003 → DD529042004	

Option	
SPINDLE 25000RPM (22KW), 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)
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5		
6	529042302700	CONNECTION DIAGRAM (NC)
	529042302801	CONNECTION DIAGRAM (SV, SP)
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)
	529042303510	SUB TANK BOX (JB41) (COOLANT CHILLER OPTION)
	529042303520	MAIN TANK BOX (JB42) (CONCEP 2000 OPTION)
15	529042303602	SADDLE BOX (JB51)
16	529042303621	SPINDLE BOX (JB52)
17	529042303700	MAG. & ATC BOX (JB61)
18	529042303800	2PC BOX (JB91) (2PC OPTION)
19	529042304000	SENSOR LAYOUT
20	529042304010	SENSOR LAYOUT (2)
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# ELEMENTARY DIAGRAM LIST

PAGE 2/6

SET No. : DD 529042004

No.	DRAWING NUMBER	TITLE
26	529042500102	ELECTRIC CABINET LAYOUT
27	529042500112	ELECTRIC CABINET LAYOUT LIST
28	529042500201	POWER PANEL 1 LAYOUT
29	529042500211	POWER PANEL 1 LAYOUT LIST
30	529042500323	POWER PANEL 2 LAYOUT
31	529042500333	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	529042500614	CE(OPTION) PANEL LAYOUT LIST
38	529042500700	REACTOL PLATE
39	529042500801	OPTION PANEL 2 LAYOUT
40	529042501002	XT2 LAYOUT
41	529042501022	XT5 LAYOUT (OPTION)
42	529042501100	FLEX PLATE LAYOUT (TOP)
43	529042501123	FLEX PLATE (BACK)
44	529042501130	FLEX PLATE (BOTTOM)
45	529042501200	OPERATING BOX BLACKET
46	529042503000	JB11 BOX CABLE LAYOUT1
47	529042503200	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	529042503400	SPINDLE BOX (JB52) CABLE LAYOUT 1
53	529042503411	SPINDLE BOX (JB52) CABLE LAYOUT 1 STD
54	529042503501	MAG.&ATC BOX (JB61) CABLE LAYOUT
55	529042503540	2PC BOX LAYOUT 1/2 (2PC OPTION)
56	529042503550	2PC BOX LAYOUT 2/2 (2PC OPTION)
57	529042503610	JB51 BOX REMOTE I/O (AP20)
58	529042503620	MAG&ATC BOX (JB61) REMOTE I/O (AP40)
59	529042503631	CONTORL BOX REMOTE I/O (AP12) (2PC etc)
60	529042503640	MAG&ATC BOX (JB61) REMOTE I/O (HSK OP.)

# ELEMENTARY DIAGRAM LIST

PAGE 3/6

SET No. : DD529042004

No.	DRAWING NUMBER	TITLE
61	529042503800	AP2 T. U LAYOUT
62		
63	529042400111	MAIN TRANSFORMER (EXPORT)
64	529042400120	MAIN TRANSFORMER (JAPAN)
65	529042400200	BREAKER TRIP (CABINET DOOR)
66	529042400400	LINE POWER SUPPLY AC200V LINE
67	529042400440	LINE POWER SUPPLY 2
68	529042400500	LINE POWER SUPPLY
69	529042400601	LINE POWER SUPPLY AC100V LINE
70	529042400630	WORK LIGHT
71	529042400701	REMOTE I/O UNIT 1
72	529042400711	REMOTE I/O UNIT 2 (2PC OPTION)
73	529042400720	REMOTE I/O UNIT 3 (HSK OPTION)
74	529042400800	MR-J2 BUS 2 (2PC OPTION)
75	529042401001	SPINDLE DRIVE (1) (12000rpm)
76	529042401011	SPINDLE DRIVE (2) (12000rpm)
77	529042401022	SPINDLE DRIVE (25000rpm OPTION)
78	529042401030	SPINDLE
79	529042401100	X AXIS SERVO MOTOR
80	529042401110	X AXIS SERVO MOTOR&MAGNE SCALE CONNECTION(OP)
81	529042401200	Y AXIS SERVO MOTOR
82	529042401210	Y AXIS SERVO MOTOR&MAGNE SCALE CONNECTION(OP)
83	529042401300	Z AXIS SERVO MOTOR
84	529042401310	Z AXIS
85	529042401320	Z AXIS SERVO & MAGNE SCALE CONNECTION(OP)
86	529042401400	4TH AXIS SERVO MOTOR(OPTION)
87	529042401800	MAGAZINE SERVO MOTOR
88	529042401810	MAGAZINE
89	529042401900	ATC POWER LINE
90	529042401910	ATC
91	529042401920	ATC
92	529042401930	ATC
93	529042402000	ATC SHIFTER
94	529042402100	ATC SHIFTER (HSK OPTION)
95		

# ELEMENTARY DIAGRAM LIST

PAGE 4/6

SET No. : DD 529042004

No.	DRAWING NUMBER	TITLE
96	529042402302	COOLANT DISCHARGE PUMP (OPTION)
97	529042402401	BASE COOLANT (OPTION)
98	529042402500	FLOOD COOLANT
99	529042402510	FLOOD COOLANT (BASE or NIAGARA OP)
100	529042402520	FLOOD & THROUGH COOLANT
101	529042402600	SPINDLE THROUGH COOLANT
102	529042402701	NIAGARA COOLANT (OPTION)
103	529042402800	COOLANT CHILLER (OPTION)
104	529042402901	CHIP CONVEYER (OPTION)
105	529042402910	CHIP CONVEYER (CONCEP 2000 OPTION)
106	529042403001	HYDRAULIC MOTOR ON
107	529042403201	MAC OIL CONTROLLER
108	529042403210	MAC OIL SUPPLY UNIT (1/2)
109	529042403220	MAC OIL SUPPLY UNIT (2/2)
110	529042403300	HEAD LUBE PUMP
111	529042403400	WAY LUBE PUMP
112	529042403500	TOOL LENGTH MEASURE
113	529042403510	TOOL LENGTH MEASURE (FOR 2PC OPTION)
114	529042403600	THERMO METER ANALOG INPUT
115	529042403700	THERMAL TRIP
116	529042403800	SADDLE COOLING FAN
117	529042404000	OPERATING PANEL 1
118	529042404100	OPERATING PANEL 2
119	529042404200	OPERATING PANEL 3
120	529042404250	OPERATING PANEL MPG. BOX (OP)
121	529042404300	OPERATING PANEL 4
122	529042404400	OPERATING PANEL 5
123	529042404500	OPERATING PANEL AC OUTLET/RS232C I/F
124	529042405050	EMERGENCY STOP (1)
125	529042405101	MACHINE DOOR SAFETY (1)
126	529042405161	DOOR SAFETY (25000rpm OPTION)
127	529042405300	2PC DOOR (2PC OPTION)
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# ELEMENTARY DIAGRAM LIST

PAGE 5/6

SET No. : DD 529042004

No.	DRAWING NUMBER	TITLE
131	529042410001	MMS UNIT 1/2
132	529042410010	MMS UNIT 2/2
133	529042410021	MMS UNIT 1/2 (MP3) '99.3~
134	529042410031	MMS UNIT 2/2 (MP3) '99.3~
135	529042410100	REVOLVING LIGHT (+24V) (OPTION)
136	529042410111	PATO LIGHT WARM UP (OP)
137	529042410120	REVOLVING LIGHT (OPTION)
138	529042410201	MIST COLLECTOR (OPTION)
139	529042410300	COOLANT WIPER (OPTION)
140	529042410400	OIL MIST COOLANT (OPTION)
141	529042410700	NC ROTARY TABLE TSUDAKOMA ETC(OPTION)
△142	529042410801	M CODE INDEX TABLE (OPTION)
①43	529042410900	CHIP BLASTER 1 INTERFACE
①44	529042410910	CHIP BLASTER 2 MOTOR STARTER
145	529042411101	SHOW LIGHT
146	529042411300	OIL SKIMMER (OPTION)
①47	529042411400	COOLANT GUN (OPTION)
①48	529042411500	X,Y AXIS BLOWER (OPTION)
149	529042413000	AUTO POWER OFF (OPTION)
150	529042413010	AUTO POWER ON/OFF (1) (OPTION)
151	529042413020	AUTO POWER ON/OFF (2) WARM UP(OPTION)
152	529042420010	2PC SELECT MOTOR (2PC OPTION)
153	529042420020	2PC LOAD/UNLOAD MOTOR (2PC OPTION)
154	529042420100	PALLET CHANGER INPUT (2PC OPTION)
155	529042420110	PALLET CHANGER OUTPUT (2PC OPTION)
156	529042420120	2PC SWITCH BOX (2PC OPTION)
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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	529042700200	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

SET No. : DD529042004

No.	DRAWING NUMBER	TITLE
166	529042101100	PLC PARAMETER LIST (1)
△167	529042101201	PLC PARAMETER LIST (2)
168	529042101301	PLC PARAMETER LIST (3)
△169	529042101401	PLC PARAMETER LIST (4)
△170	529042101512	PLC PARAMETER LIST (5)
171	529042101601	PLC PARAMETER LIST (6)
△172	529042101702	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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