

**MORI SEIKI**  
**MSC-516, MSD-**  
**MV-40B 516**  
**Dwg.#**  
**I81417B04**



ERROR	MESSAGE TEXT	COIL	ADDRESS	DESCRIPTION
EX0020	EDITING KEY SWITCH ON	PER0020	A0.0	A cycle start has been activated with the editing key switch on.
EX0021	TOOL NOT CLAMP	PER0021	A0.3	The cycle start button has been pressed while the tool is unclamped.
EX0023	START INTERLOCK ON (EXT.)	PER0023	A0.7	The cycle operation has been started while an external start interlock signal has been input.
EX0026	DOOR NOT CLOSE	PER0026	A8.3	The cycle operation has mistakenly been started without the door closed.
EX0063	OVERTRAVEL ALARM	MER0063	A14.3	The hard O.T. limit switch has been activate. Return the axis to the normal area manually.
EX0064	AUTO DOOR OPEN	MER0064	A7.7	An auto-door closed detection signal has been deactivated without an auto-door close command having been given.
EX0065	SENSOR OVER TRAVEL	PER0065	A14.7	Z-axis sensor overtravel signal is activated.
EX0068	SET UP MODE TIME OVER	PER0068	A14.4	Door interlock cancel time has been over.
EX0069	DOOR LOCK CHECK TIME OVER	PER0069	A14.5	Door lock complete signal has not been turned ON after elapsing the time set in timer.
EX0074	M82 WITH SPINDLE ON	PER0074	A0.6	An M82 command has been given during spindle rotation.

EX0089	SPEED DETECTION CIRCUIT ABNORMAL	MER0089	A10.7	Speed detection signal of monitor circuit is abnormal. Though spindle or rotary tool spindle has not been rotated, speed detection signal is on or though spindle or rotary tool spindle has been rotating over fixed speed, speed detection signal is off.
EX0094	INTERRUPTION SIGNAL ON	PER0094		The motor interruption check signal is input at operation ready completion of each motor. Check the motor interruption circuit.
EX0096	INTERRUPTION FAILURE	PER0096		The motor interruption check signal is not input at the emergency stop of each motor. Check the motor interruption circuit.
EX0098	PANEL TEST MODE	PER0098		During test mode of flat panel on operation panel.
EX0099	PANEL ALARM	MER0099		An alarm has occurred in the flat-panel on the operation panel.
EX0103	INTERLOCK BYPASS ON	PER0103	A2.3	M06 or M33 command has been given while M31 command is input.
EX0104	Z AXIS NOT REFERENCE POINT	PER0104	A2.5	M06 or M33 command has been given without returning Z-axis to the reference point.
EX0106	SET MDI MODE	PER0106	A3.2	An M31 command has been given without selection of MDI mode.
EX0116	X, Y DATA SETTING ERROR (ATC)	PER0116	A2.6	X-axis or Y-axis 2nd zero point has not been properly set at NC or PC parameter.
EX0122	POT NOT UP	PER0122	A0.1	The cycle start has been activated while the pot is in the DOWN position.
EX0123	NO EMPTY POT	PER0123	A3.6	No empty pot exists during ATC cycle. Check the tool data.
EX0124	SPECIFIED POT NOT INDEXED	PER0124	A3.0	The pot specified by T code has not been indexed at change-position during ATC cycle.

EX0126	CHECK FOR EMPTY POT No.	PER0126	A4.2	An empty pot exists even if the data of the tool in the spindle is not 0. Check the setting of data again.
EX0134	X, Y NOT REFERENCE POINT	PER0134	A2.7	M06 or M33 command has been given without returning X-axis and Y-axis to the 2nd zero point.
EX0135	NO EMPTY POT	PER0135	A8.0	Though the spindle tool data is not zeroed, any empty pot does not exist. Set the tool data and recheck the operation.
EX0155	ATC HOME POSITION OFF	MER0155	A15.1	ATC home position has deviated from home position while the spindle is rotating.
EX0156	ATC MOTOR OVERLOAD	MER0156	A16.6	The ATC motor thermal relay has tripped. Reset contact. ATC motor may be overloaded.
EX0158	ATC CYCLE TIME OVER	MER0158	A15.2	ATC cycle has not been completed within the specified time. Check for possible error in stop position.
EX0159	ARM HOME POSITION LS. OFF	MER0159	A19.6	ATC main arm home position check signal has not turned on during ATC cycle.
EX0160	ATC NOT HOME POSITION	PER0160	A1.3	M3, M4 or rigid-tap command has been given when ATC is not home position.
EX0161	ATC ARM NOT HOME POSITION	PER0161	A2.0	M06, M33 or T command has been given when ATC is not home position.
EX0165	TOOL CLAMP LS. OFF	MER0165	A15.0	Tool clamp check signal has been turned off while spindle is rotating.
EX0166	TOOL NOT CLAMP	PER0166	A1.4	M3, M4, M19 or rigid-tap command has been given while the tool is unclamped.
EX0167	TOOL NOT CLAMP	PER0167	A2.1	M06 or M33 command has been given while tool is unclamped.

EX0168	ATC ARM NOT HOME POSITION	PER0168	A0.2	The cycle start button has been pressed while main arm is not home position.
EX0177	POT NOT UP	PER0177	A2.2	An M06, M33, or T-code command has been specified while the pot is in the DOWN position.
EX0180	POT UP SIGNAL OFF	PER0180	A16.2	The pot up complete-signal has been turned off during magazine indexing.
EX0198	ARM HOME POSITION LS. ON	MER0198	A19.7	ATC main arm home position check signal has not turned off during ATC cycle.
EX0201	IMPROPER T-COMMAND	PER0201	A3.5	The specified T-code command is incorrect.
EX0202	SPINDLE TOOL COMMANDED	PER0202	A3.7	The spindle tool has been specified with a T-code.
EX0204	NO EMPTY POT FOR T0	PER0204	A4.1	No empty pot exists when specifying T0 command.
EX0205	M33 & T IN SAME BLOCK	PER0205	A3.1	Both an M33 command and a T-code command have been given in the same block. Give an M33 command in a single block.
EX0207	T-CODE NOT COMMANDED	PER0207	A2.3	An M06 command has been specified without specifying T-code command.
EX0219	TOOL LIFE ENDING	PER0219	A3.3	This indicates that the life of the tools in this group is entirely exhausted.
EX0220	TOOL GROUP DATA 0	PER0220	A3.4	When the tool life management function is being used, an M66 (skip) command has been given without setting the tool group data.
EX0240	T-DATA IS SET FOR EMP. POT	PER0240	A4.0	Tool data is set for the empty pot during ATC cycle. Tool data is not properly set.
EX0243	MG DATA SETTING ERROR	PER0243	A4.4	Number of tools is not properly set in the parameter.

EX0252	A PHASE SIGNAL NOT ON	MER0252	A16.1	Rotation signal A of magazine was not activated. This error occurs when magazine rotation signal B has been activated twice in a row. SQ51 switch may be defective or not properly adjusted.
EX0253	B PHASE SIGNAL NOT ON	MER0253	A16.0	Rotation signal B of magazine was not activated. This error occurs when magazine rotation signal A has been activated twice in a row. SQ52 switch may be defective or not properly adjusted.
EX0254	MAGAZINE COUNTER ERROR	MER0254	A15.5	Magazine zero-return signal does not agree with the counter value. SQ53 switch may be defective or PC counter may not be properly set
EX0256	MAGAZINE INDEX TIME OVER	PER0256	A16.3	Magazine indexing cycle time has been over.
EX0266	MAGAZINE NOT COINCIDENCE	MER0266	A15.6	The counter for A phase signal and the counter for B phase signal are in disagreement.
EX0290	MAGAZINE MOTOR OVERLOAD	MER0290	A16.7	Terminal relay in magazine motor has tripped. Reset contact. Motor may be overloaded.
EX0293	MAGAZINE INDEX ERROR	MER0293	A15.7	It is magazine indexing error. Magazine lock pin may be defective.
EX0404	S-CODE NOT COMMANDED	PER0404	A1.0	M03 or M04 command has been given when S-code is 0.
EX0406	SPINDLE INTERLOCK ON	PER0406	A1.2	An M03, M04 or a rigid tapping command has been given while an external spindle interlock signal is input.
EX0407	CHANGE SPINDLE DIRECTION	PER0407	A1.6	During change-over from AUTO to MANUAL mode and return to Auto mode, spindle has been rotated manually in a direction opposite to that in AUTO mode.

EX0411	SPINDLE JOG ON	PER0411	A1.1	M03, M04, or M19 command has been given during spindle jog mode.
EX0451	SPINDLE UNIT ALARM	MER0451	A19.5	The spindle unit alarm has been activated.
EX0551	CONTROL BOX OVER HEAT	MER0551	A17.0	Excess heat in electrical control unit. Check unit and filter.
EX0553	COOLING SYSTEM ERROR	MER0553	A17.1	Tripping of thermal relay in cooler or fan motor, or of over-current relay in freezer has activated alarm in the oil controller. Oil cooler or fan motor may be overloaded.
EX0556	AIR DRYER ALARM	MER0556	A21.3	An alarm signal is input from air-dryer unit.
EX0557	OIL AND AIR LUB PRESSURE DOWN	MER0557	A17.7	The oil-air lubricant pressure has not heighten.
EX0558	OIL AND AIR LUB PRESSURE UP	MER0558	A18.1	Lubricant pressure has not lowered within set time from oil-air lubricant pump turned off.
EX0559	OIL AND AIR WATCH DOG ALARM	MER0559	A18.2	The watch-dog alarm has been occurred in oil-air lubricant pressure has not heighten within the preset time.
EX0560	AIR PRESSURE LOW	MER0560	A14.1	Air pressure has dropped.
EX0561	OIL PRESSURE LOW	MER0561	A14.2	Decrease in hydraulic pressure.
EX0562	LUB PUMP PRESSURE DOWN	MER0562	A14.3	The lubricant pressure switch has not been activated within the preset time after turning on the slide-way lubricant pump.
EX0563	LUB PUMP PRESSURE UP	MER0563	A17.3	Lubricant oil pressure has not lowered within set time from lubricant pump turned off.

EX0565	THRU SP. CLNT. UNIT ALARM	MER0565	A18.4	JE F-200NL: Not used. JE F-200ST: Booster filter of through spindle coolant unit is clogged. KNOLL type: Through spindle coolant alarm has been activated.
EX0566	THRU SP. CLNT. UNIT FILTER ALARM	MER0566	A18.5	JE F-200NL: Neuton filter of through spindle coolant unit is clogged. JE F-200ST: PCF filter of through spindle coolant unit is clogged. KNOLL type: Paper filter is insufficient.
EX0567	LUBRICANT WATCH DOG ALARM	MER0567	A17.4	The watch-dog alarm has been occurred in lubricant pump. Lubricant pressure has not heighten within the preset.
EX0570	INSUFFICIENT LUBRICANT OIL	MER0570	A17.6	Insufficient lubrication oil. Add oil as necessary. (Message)
EX0571	OIL AND AIR LEVEL LOW	MER0571	A18.0	Shortage of lubricant oil in spindle oil-air lubricant unit. Add oil as necessary.
EX0574	ATC TANK OIL LEVEL LOW	MER0574	A18.6	ATC charge tank oil is shortage. Refill the oil.
EX0575	SP. BRG. NOT PRE- LOAD	MER0575	A21.4	Although pre-load is applied to the spindle, the pressure is not risen.
EX0576	SP. BRG. PRE- LOAD NOT RLSD	MER0576	A21.5	Although spindle pre-load is released, the pressure is not lowered.
EX0578	COOLANT LEVEL LOW	MER0578	A20.3	Coolant amount runs short. Refill coolant.
EX5081	COOLANT PUMP OVERLOAD	MER0581	A18.7	The coolant pump thermal relay has tripped. Reset contact. Pump may be overloaded.
EX0582	LUB PUMP OVERLOAD	MER0582	A17.5	Thermal relay in lubricant pump has tripped. Reset contact. Pump may be overloaded.
EX0583	CHIP CONVEYOR OVERLOAD	MER0583	A19.0	Chip conveyor thermal relay has tripped. Reset contact. Conveyor motor may be overloaded.

EX0584	OIL AND AIR LUB PUMP OVERLOAD	MER0584	A18.3	Thermal relay in oil-air lubricant oil pump has tripped. Reset contact. Pump may be overloaded.
EX0591	Z-AXIS BRAKE NFB TRIP	MER0591	A19.2	NFB (no fuse breaker) of Z-axis brake has tripped.
EX0596	SP. COOLANT PUMP OVERLOAD	MER0596	A19.1	Thermal relay of the through-spindle coolant has tripped. Reset contact of thermal relay. Pump may be overloaded.
EX0599	LUB OIL LEVEL LOW	MER0599	A17.2	Shortage of lubricant oil. Add oil as necessary. (Error)
EX0602	Y NOT 3RD REFERENCE POINT	PER0602	A4.6	A pallet change command (M62 or M63) has been given while the Y axis is not in the 3rd zero-point.
EX0603	Y NOT REFERENCE POINT	PER0603	A4.7	A pallet change command (M60 or M61) has been given while the Y axis is not in the zero-point.
EX0608	SET-UP STATION DOOR OPEN	PER0608	A6.2	The set up station door is opened. Close the door.
EX0615	APC NOT HOME POSITION	PER0615	A4.3	A pallet change command (M02 or M30) has been given while the APC is not in home position.
EX0625	X Y DATA SETTING ERROR	PER0625	A6.1	X- or Y-axis 3rd zero point est data is incorrect. NC parameter is not properly set.
EX0626	PROGRAM NO. SEARCH ERROR	PER0626	A6.5	The program number has not been searched for correctly during pallet change.
EX0627	APC NOT HOME POSITION	PER0627	A0.4	The cycle start has been activated while the APC is not in the home position.
EX0638	X NOT 3RD REFERENCE POINT	PER0638	A6.0	A pallet change command (M60, M61, M62, Or M63) has been given while the X axis is not in the third zero-point.

EX0646	B-ST. LOAD CONDITIONS	PER0646	A5.4	A pallet change command (M60) has been given while no pallet is in the B station or a pallet is in the machine.
EX0647	B-ST. UNLOAD COMDITIONS	PER0647	A5.5	A pallet change command (M61) has been given while a pallet is in the B station or no pallet is in the machine.
EX0648	A-ST. LOAD CONDITIONS	PER0648	A5.6	A pallet change command (M62) has been given while no pallet is in the A station or a pallet is in the machine.
EX0649	A-ST. UNLOAD CONDITIONS	PER0649	A5.7	A pallet change command (M63) has been given while a pallet is in the A station or no pallet in the machine
EX0654	PALLET SEATING SIGNAL NOT ON	MER0654	A14.6	During the pallet loading cycle, the seating completions signal has not been activated within the specified time after a pallet clamp command is given. Check the seat surface for chips or foreign matter.
EX0666	APC CYCLE TIME OVER	MER0666	A16.5	The APC cycle has not been completed within the set time. Check for possible error in the stop position.
EX 0771	SETUP ST DOOR LK/ULK TIME OVER	MER0771	A22.6	After setup station door is locked/unlocked, the lock complete signal has not been turned on.off within the setting timer.
EX1024	DOOR MUST BE OPENED ONCE	PER1024	A5.3	After completion of machining, automatic operation has been started without opening the door.
EX1034	POWER MUST BE OFF	PER1034	A7.6	After turning off the power once, turn it on again.
EX1035	MONITOR PARAMETER ALARM	PER1035	A19.4	Parameter for load monitor function is improperly set.

EX1036	TEACHING ALARM	PER1036	A19.3	Teaching alarm has been activated.
EX1037	SPINDLE OVERLOAD	PER1037	A7.4	Spindle is overloaded.
EX1038	X-AXIS OVERLOAD	PER1038	A7.1	X-axis is overloaded.
EX1039	Y-AXIS OVERLOAD	PER1039	A7.2	Y-axis is overloaded.
EX1040	Z-AXIS OVERLOAD	PER1040	A7.3	Z-axis is overloaded.
EX1047	MACHINE SPEC. PARAM. CLEARED	PER1047	A7.0	Parameter for machine spec. is improperly set.
EX1050	SPINDLE LOAD WARNING	MER1050	A13.0	Spindle is overloaded warning level.
EX1051	X-AXIS LOAD WARNING	MER1051	A13.1	X-axis is overloaded warning level.
EX1052	Y-AXIS LOAD WARNING	MER1052	A13.2	Y-axis is overloaded warning level.
EX1053	Z-AXIS LOAD WARNING	MER1053	A13.3	Z-axis is overloaded warning level.
EX1061	MOTOR INTERRUPTION ABNORMAL	MER1061	A22.3	The motor interruption check signal is input at operation ready completion of servo and spindle motor. The motor interruption check signal is not input at the emergency stop of servo and spindle motor.
EX1067	DOOR CLOSE SIGNAL OFF	MER1037	A13.6	Door close detecting signal was turned off when giving auto door close command.
EX1068	DOOR OPEN/CLOSE TIME OVER	MER1068	A13.7	Auto door open or close detect signal was not turned on within allowable time.
EX1157	ORT.OFF DURING ATC CYCLE	MER1157	A15.3	Orientation has been OFF during ATC cycle.

EX1158	ATC NOT FINISHED	MER1158	A15.4	Tool clamp detect signal has never turned off or arm down detect signal has never turned on when ATC cycle was finished.
EX1246	CLOSE THE OPERATION DOOR	PER1246	A8.1	Close the operation door and side door.
EX1254	MAGAZINE LOCK PIN ON	MER1254	A16.4	Magazine lock pin check signal is not off at indexing of magazine.
EX1270	ATC/MG ILLEGAL MOVEMENT	MER1270		ATC or magazine tries the operation without the command. The driver or arm home position check signal or the magazine B-phase signal may be improper.
EX1446	ATC ARM NOT HOME POSITION	PER1446	A1.7	M19 command has been given when ATC arm is not in home position.
EX1447	RIDGE TAP MODE	PER1447	A1.5	M03, M04, M19, M06 or M33 command has been given during rigid tapping mode.
EX1449	SENSORING TOOL ON SPINDLE	PER1449	A6.7	An M03, M04, M19 or rigid tapping command has been given while a sensing tool exists in the spindle. Or, an M06 or M33 command has been given while orientation complete signal has been deactivated.
EX1551	EXT. CHIP CONVEYOR STOPPED	MER1551	A20.6	The chip conveyor outside machine stops. Check abnormalities of the stop area.
EX1557	COOLANT FLOWING ABNORMAL	MER1557	A20.4	The coolant flow rate is abnormal.
EX1558	SP. THRU CLT. FLOWING ABNORMAL	MER1558	A20.5	The flow rate of the through spindle coolant is abnormal.
EX1608	ILLEGAL PALLET STATUS	PER1608	A4.5	A pallet change command (M02 or M30) has been given while the pallet is in a state unable to change.

EX1609	SHIFTER NOT ADVANCE END	MER1609	A5.0	A pallet change command (M61 or M63) has been given while the shifter is not in the forward end.
EX1610	SHIFTER NOT RETRACT END	PER1610	A5.1	A pallet change command (M60 or M62) has been given while the shifter is not in the backward end.
EX1611	PALLET NOT CLAMP	PER1611	A5.2	A pallet change command (M60 M61, M62, or M63) has been given while the pallet is not clamped.
EX1612	NO WORK DATA SET FOR A/B	PER1612	A6.4	A M64 command has been specified without setting the work number data. The M64 command is used only with the programs 09300 to 09305.
EX1613	STATION PIN DOWN	PER1613	A6.6	A-station lock pin is lowered even though the pallet exists on A-station. Or B-station lock pin is lowered even though a pallet exists on B-station.
EX1633	SETUP STATION DOOR NOT CLOSED	PER1633	A22.5	Setup station not closed while APC shutter is opened.
EX1653	APC DOOR OPEN	MER0751	A22.0	The door of the APC setup station has been opened during the APC cycle.
EX1921	M/S/T CODE IN SAME BLOCK	PER1921	A7.5	M82 or M83 commanded together with T code or S code.
EX1923	PROGRAM NOT FINISHED	PER1923	A8.2	In another mode except M02, M30, M00 and M01, the weekly timer is started while the power is automatically cut off.
EX2027	NC ON OPERATING	PER2027	A10.3	Interlock key switch was turned to release side during automatic cycle or feed hold.
EX2027	PUSH SINGLE BLOCK SW. ON	PER2028	A10.4	Cycle start button was pressed at single block OFF status.
EX2029	CYCLE START NOT PERMITTED	PER2029	A11.1	Single block was turned off or door was opened during automatic cycle.

EX2909	DOOR NOT CLOSED	PER2909	A11.5	While the main power is turned on by the weekly timer, the operators door is not closed.
EX4002	OPEN DOOR ONCE	PER4002	A11.6	After turning on the power, open the door once and close again.
EX4003	DOOR INTERLOCK RELEASED	PER4003	A22.1	Door lock is specified while the door interlock is released.
EX4004	DOOR NOT CLOSED	PER4004	A22.2	While the door is open, the door lock is specified.
EX4006	DOOR INTERLOCK RELEASED	PER4006	A11.2	A cycle start has been activated with the door interlock key switch released.
EX4007	DOOR INTERLOCK NOT RELEASED	MER4007	A22.4	After the door interlock function released state is cancelled, door interlock function is released again before monitor circuit becomes normal.

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