

MORI SEIKI



**SH-50**      **MSC-516, MSD-516**  
**DWG. NO.**  
**I81408F01**

<b>ERROR</b>	<b>MESSAGE TEXT</b>	<b>COIL</b>	<b>ADDRESS</b>	<b>DESCRIPTION</b>
EX0020	EDITING KEY SWITCH ON	PER0020	A0.0	The cycle start button has been activated while the editing key switch is on.
EX0021	TOOL NOT CLAMP	PER0021	A0.1	the cycle start button has been pressed while the tool is unclamped.
EX0023	START INTERLOCK ON (EXT.)	PER 0023	A0.2	The cycle start operation has been started while an external start-interlock signal has been input.
EX0026	DOOR NOT CLOSE	PER0026	A0.4	The cycle operation has been mistakenly been started without door close.
EX0047	SAME GROUP M- CODE COMMANDED	PER0047	A0.7	M-codes in same group are specified simultaneously or wrong combination of M codes has been specified.
EX0065	SENSOR OVER TRAVEL	PER0065	A0.3	Z axis sensor over-travel signal is activated.
EX0068	SET-UP MODE TIME OVER	PER0068	A0.5	Door interlock cancel time over.
EX0069	DOOR LOCK CHECK TIME OVER	PER0069	A0.6	Door lock complete signal has not been turned on within setting timer.
EX0089	SPEED DETECTION CIRCUIT ABNORMAL	MER0089	A3.3	Speed detection signal of monitor circuit is abnormal. Though the spindle or rotary tool spindle has not been rotated, speed detection signal is on or though the spindle or rotary tool spindle has been rotating over fixed speed, speed detection signal is off.
EX0097	PANEL I/O ALARM	MER0097	A20.5	An I/O alarm has been occurred in the flat-panel on the operation panel.

EX0099	PANEL ALARM	MER0099	A20.7	An alarm has occurred in the flat-panel on the operation panel.
EX0104	X,Y,(U) NOT AT REFERENCE POINT	PER0104	A1.1	M06 or M33 command has been given without returning the X and Y axis to the second zero point.
EX0116	X,Y DATA SETTING ERROR	PER0116	A1.4	X or Y axis 2nd zero point has not been properly set at parameter.
EX0119	SUB-ARM NOT MG. POSITION	PER0119	A3.5	The sub-arm has not been in the magazine position though the spindle tool and next tool data [0].
EX0120	SUB-ARM NOT NEXT POSITION	PER0120	A1.3	An M06, M33, or T-code has been specified while the sub-arm is not next position.
EX0121	TOOL DATA SETTING ERROR	PER0121	A1.5	An M06, M33, or T-code has been specified while the data is not stored in magazine, has been set to waiting pot data, or spindle-tool data.
EX0123	NO EMPTY POT	PER0123	A3.0	No empty pot exists during ATC cycle. Check tool data.
EX0124	SPECIFIED POT NOT INDEXED	PER0124	A3.2	The pot specified by T-code has not been indexed at change position during ATC cycle.
EX0134	Z NOT REFERENCE POINT	PER0134	A3.6	M06 or M33 command has been given without returning the Z axis to the second zero point.
EX0155	ATC HOME POSITION OFF	MER0155	A1.6	ATC has deviated from the home position while the spindle is rotating.
EX0156	ATC MOTOR OVERLOAD	MER1056	A1.7	The ATC motor thermal relay has tripped. Reset contact. ATC motor may be overloaded.
EX0158	ATC CYCLE TIME OVER	MER0158	A2.0	The ATC cycle has not been completed within the specified time. Check for possible error in the stop position.
EX0159	ARM HOME POSITION LS. OFF	MER0159	A2.1	ATC main arm home position check signal has not turned on during the ATC cycle.

EX0160	ATC NOT HOME POSITION	PER0160	A2.2	M3,M4 or rigid-tap command has been given while the ATC is not at the home position.
EX0161	ATC ARM NOT HOME POSITION	PER0161	A2.3	M06, M33 or T command has been given when the ATC is not at the home position.
EX0165	TOOL CLAMP LS. OFF	MER0165	A2.4	Tool clamp check signal has been turned off while spindle is rotating.
EX0166	TOOL NOT CLAMP	PER0166	A2.5	M3,M4 or rigid-tap command has been given while the tool is unclamped.
EX0167	TOOL NOT CLAMP	PER0167	A2.6	M06 or M33 command has been given while the tool is unclamped.
EX0168	ATC ARM NOT HOME POSITION	PER0168	A2.7	The cycle start button has been pressed while the main arm is not in home position.
EX0169	ATC SHUTTER NOT CLOSE	PER0169	A6.0	The cycle start button has been pressed with ATC shutter open.
EX0198	ARM HOME POSITION LS. ON	MER0198	A3.1	ATC main arm home position check signal has not turned off during the ATC cycle.
EX0201	IMPROPER T-COMMAND	PER0201	A4.0	The specified T-code command is incorrect.
EX0202	SPINDLE TOOL COMMANDED	PER0202	A4.1	The spindle tool has been specified with a T-code.
EX0204	NO EMPTY POT FOR T0	PER0204	A5.7	No empty pot exists when specifying T0 command.
EX0205	M33 & T IN SAME BLOCK	PER0205	A4.2	Both an M33 and a T-command have been given in the same block. Give an M33 command in single block.
EX0207	T-CODE NOT COMMANDED	MER0207	A5.6	An M06 command has been specified without specifying T-command.
EX0208	POT NUMBER IS NOT COINCIDENCE	PER0208	A4.4	Indexing pot number and commanding pot number are in disagreement.

EX0210	SBC CYCLE TIME OVER	MER0210	A4.3	SBC cycle has not been completed within specified time. Check for possible deviation of the stop position.
EX0212	SUB ARM NOT HOME POSITION	PER0212	A4.5	The cycle start button has been pressed while the sub arm is not in home position.
EX0218	TOOL DATA  SETTING DATA	PER0218	A4.6	T-code has been specified with condition on that the data other than number of tools in magazine has been set to spindle tool data or waiting pot tool data. This is a tool data setting error.
EX0219	TOOL LIFE ENDING	PER0219	A4.7	This indicates that the life of the tools in this group is entirely exhausted.
EX0220	TOOL GROUP DATA ERROR	PER0220	A5.0	M66 command has been given while tool group or tool life data is improperly set.
EX0230	MG MODE MANUAL OPERATION	PER0230	A5.1	The manual operation mode has been selected on the magazine manual operation panel when T-code is commanded. Return to automatic (AT) operation mode.
EX0231	MAGAZINE DOOR OPEN	PER0231	A5.2	The magazine door has been opened. Close the door.
EX0232	SELECT MG MODE MANUAL THEN AUTO	PER0232	A5.3	Set the magazine manual/ automatic selector switch on the magazine manual operation panel to manual (MN), then set it to automatic (AT) again. T-cycle is started.
EX0233	PUSH CYCLE START BUTTON	PER0233	A5.4	Press the cycle start button. T-cycle is started.
EX0240	T-DATA IS SET FOR EMP. POT	PER0240	A6.4	Tool data is set for the empty pot during ATC cycle. Tool data is not properly set.
EX0243	MG DATA SETTING ERROR	PER0243	A5.5	Number of tools is not properly set in the parameter.
EX0256	MAGAZINE INDEX TIME OVER	MER0256	A6.1	Magazine indexing cycle time has been over.

EX0272	MAGAZINE POT UNLOCK	MER0272	A6.3	Magazine pot lock check signal has turned off during magazine indexing.
EX0298	POT STAY ON MAGAZINE	MER0298	A6.5	The pot has been held at indexed position of magazine during returning cycle. Spindle or next tool data may be mis-setting in the parameter.
EX0299	POT DOES NOT STAY ON MAGAZINE	MER0299	A6.6	The pot has been held at indexed position of magazine during receive cycle. Spindle or next tool data may be mis-setting in the parameter.
EX0404	S-CODE NOT COMMANDED	PER0404	A7.0	M03 or M04 command has been given when S-code is 0.
EX0406	SPINDLE INTERLOCK ON	PER0406	A7.1	An M03, M04 or a rigid tapping command has been given while an external spindle interlock signal is input.
EX0407	CHANGE SPINDLE DIRECTION	PER0407	A7.2	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	A7.3	M03, M04 or M19 command has been given during spindle jog mode.
EX0503	FIXTURE CLAMP/UNCLAMP NOT PERMITTED	PER0503	A8.7	M108 or M109 command has been given while table is unclamp, pallet is unclamp, there is no pallet in the machine or not MDI mode.
EX0551	CONTOL BOX OVERHEAT	MER0551	A8.0	Excess heat in electrical control unit. Check unit and filter.
EX0553	COOLING SYSTEM ERROR	MER0553	A8.1	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.
EX0560	AIR PRESSURE LOW(*)	MER0560	A8.5	Air pressure has dropped.(*)-- (1) main air (2) spindle oil-mist lub. unit (3) feed axis oil-mist lub. unit.
EX0561	OIL PRESSURE LOW	MER0561	A8.6	Decrease in hydraulic pressure.

EX0562	LUB PUMP PRESSURE DOWN	MER0562	A24.0	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	A24.1	The lubricant pressure has not lowered within the set time from lubricant pump turned off.
EX0565	THRU SP. CLNT.  UNIT ALARM	MER0565	A9.0	JE FS-200NL: Not used. JE FS-2000ST: 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	A9.1	JE FS-200NL: Neuton filter of through spindle coolant unit is clogged. JE FS-2000ST: PCF (fine) filter of through spindle coolant unit is clogged. KNOLL type: Paper filter is insufficient.
EX0567	LUBRICATION WATCH DOG ALARM	MER0567	A24.2	The watch-dog alarm has been occurred in lubricant pump. Lubricant pressure has not heighten within the preset.
EX0568	HYDRAULIC LEVEL LOW	MER0568	A9.2	Shortage of hydraulic pump oil.
EX0570	LUBRICATION OIL LEVEL LOW	MER0570	A24.3	Insufficient lubrication oil. Add oil as necessary. (Message)
EX0575	SP. BRG. NOT PRE-LOAD	MER0575	A22.6	Although pre-load is applied to the spindle, the pressure is not risen.
EX0576	SP. BRG. PRE-  LOAD NOT RLSD.	MER0576	A22.7	Although pre-load is released, the pressure is not lowered.
EX0578	COOLANT LEVEL LOW	MER0578	A9.4	Coolant amount runs short. Refill coolant.
EX0580	HYDRAULIC PUMP OVERLOAD	MER0580	A9.5	The hydraulic pump thermal relay has tripped. Reset contact. Pump may be overloaded.

EX0581	COOLANT PUMP OVERLOAD	MER0581	A9.6	The coolant pump thermal relay has tripped. Reset contact. Pump may be overloaded.
EX0582	LUB PUMP OVERLOAD	MER0582	A24.4	Thermal relay in lubricant pump has tripped. Reset contact. Pump may be overloaded.
EX0583	CHIP CONVEYOR OVERLOAD	MER0583	A9.7	Chip conveyor thermal relay has tripped. Reset contact. Conveyor motor may be overloaded.
EX0591	Y-AXIS BRAKE NFB TRIP	MER0951	A10.0	NFB (no fuse breaker) of Y-axis brake has tripped.
EX0592	EX. CHIP CONVEYOR OVERLOAD	MER0592	A10.1	The thermal relay of the external chip conveyor has tripped. Reset contact. External conveyor motor may be overloaded.
EX0594	SHOWER COOLANT OVERLOAD	MER0594	A10.3	The thermal relay of the shower coolant has tripped. Reset contact. Shower coolant pump may be overloaded.
EX0596	SP. COOLANT PUMP OVERLOAD	MER0596	A10.4	Thermal relay of the through-spindle coolant has tripped. Reset contact of thermal relay. Pump may be overloaded.
EX0598	MISTPURE PUMP OVERLOAD	MER0598	A10.5	The thermal relay of the mistpure pump has tripped. Reset contact. Pump may be overloaded.
EX0599	LUBRICATION OIL EMPTY	MER0599	A24.5	Shortage of lubricating oil. Add oil as necessary. (Error)
EX0704	STATION IMPROPER POSITION	PER0704	A12.1	An M60 or M61 command has been given while APC setup station is not in home position.
EX0707	PALLET DOES NOT STAY ON M/C	PER0707	A11.0	A pallet change command (M02, M30, M60, M61) has been given when the APC is not home position.
EX0708	APC DOOR OPEN	PER0708	A12.2	An M60 or M61 command has been given while the APC setup station cover is open.

EX0715	APC NOT HOME POSITION	PER0715	A12.4	A pallet change command (M02, M30, M60, M61) has been given when the APC is not home position.
EX0716	B AXIS NOT REFERENCE POINT	PER0716	A12.5	A pallet change command (M02, M30, M60, M61) has been given without executing table zero-return.
EX0720	TABLE NOT CLAMP	PER0720	A12.6	A pallet change command (M02, M30, M60, M61) has been given while table is being unclamp.
EX0724	PALLET DATA ERROR	MER0724	A11.5	The pallet actually being loaded does not agree with the data in the PC memory.
EX0725	Z DATA SETTING ERROR	PER0725	A12.7	Z-axis 2nd zero-point has not been properly set at NC parameter.
EX0726	PROGRAM NO. SEARCH ERROR	PER0726	A12.3	Program has not been properly searched for after APC cycle.
EX0727	APC NOT HOME POSITION	PER0727	A13.0	The cycle start button has been pressed when APC is not in the home position.
EX0728	Z AXIS NOT REFERENCE POINT	PER0728	A13.1	A pallet change command (M02, M30, M60, M61) has been given without executing Z-axis 2nd zero-return.
EX0730	PALLET NOT CLAMP	PER0730	A11.1	The cycle start button has been pushed when pallet is unclamped.
EX0731	SENSOR NOT DOWN	PER0731	A1.2	M60, M61, M02 or M30 command has been given when table-mount sensor is not down (horizontal) position.
EX0739	APC NOT HOME POSITION	PER0739	A11.2	A pallet unclamp command (M113) has been given while the APC is not in home position.
EX0740	APC ARM NOT DOWN POSITION	PER0740	A11.3	A pallet unclamp command (M113) has been given while the APC-ARM is not down position.
EX0741	B AXIS NOT REFERENCE POINT	MER0741	A11.4	A pallet unclamp command (M113) has been given without executing table zero-return.

EX0742	FIXTURE NOT CLAMP	MER0742	A14.0	A pallet change command has been given while fixture in the machine or setup station is not clamp.
EX0746	WORKPIECE HOLDING SIGNAL NOT ON	PER0746	A24.7	A pallet change command has been given while workpiece holding detection signal is not on.
EX0751	APC DOOR OPEN	PER0751	A13.2	The door of the APC setup station has been opened during the APC cycle.
EX0752	STATION IMPROPER POSITION	MER0752	A13.3	The home position check signal of APC setup station has turned off during the APC cycle.
EX0753	APC HOME POSITION LS. OFF	MER0753	A13.4	The home position check signal of APC setup station has not turned on during the APC cycle.
EX0754	PALLET SEATING  SIGNAL ON	MER0754	A11.6	During the APC cycle the seating complete signal has not been activated within the specified time after a pallet clamp command is given.
EX0755	APC HOME  POSITION LS. ON	MER0755	13.5	The home position check signal of APC has not turned turned off during the APC cycle.
EX0757	SENSOR DOWN  LS. OFF	MER0757	A03.4	A table mount sensor down (horizontal) complete signal has turned off during APC cycle.
EX0762	APC ARM UP SIGNAL OFF	MER0762	A12.0	Check signal of APC-ARM up has turned off during APC cycle.
EX0765	APC MOTOR  OVERLOAD	MER0765	A13.6	The thermal relay of the rotary-type APC motor has tripped. Reset contact. Motor may be overloaded.
EX0766	APC CYCLE TIME  OVER	MER0766	A13.7	APC cycle has not been completed within the specified time. Check for a possible deviation in the stop position.
EX0770	FIXTURE CLAMP CHECK TIME OVER	MER0770	A11.7	Fixture clamp complete signal has not been turned ON within setting timer.

EX0771	SETUP ST DOOR LK/ULK TIME OVER	MER0771	A14.1	Afetr setup station door is locked/unlocked, the lockcomplete signal has not been turned on/off within setting timer.
EX0773	WORKPIECE HOLDING CHECK TIME OVER	MER0773	A24.6	Workpiece holding detection signal has not been turned ON within setting timer.
EX0811	SET MDI MODE	PER0811	A18.0	An M60, M61 command has been given when not in MDI mode.
EX0812	NO SETFIN STATION	PER0812	A18.1	An M60, M61 command has been given when there is no setup completed pallet.
EX0818	P. P. MODE IS MANUAL OPERATION	PER0818	A20.1	Pallet pool index command has been given while the operation panel of the pallet pool set to manual mode. This alarm can be cancelled by the reset button of the pallet pool.
EX0824	WRONG PALLET CHANGING CONDITION	PER0824	A22.4	A pallet change command has been given before the pallet change condition becomes ready. Check the pallet data of M/C (PC data) and pallet pool controller (F-D MATE). An M60 or M61 command has been given when [APC OK] signal from pallet pool controller (F-D MATE) is not ON.
EX0827	APC NOT HOME POSITION	PER0827	A18.2	Pallet pool index command has been given while APC is not in the home position. Thias alarm can be cancelled by the reset button of the pallet pool.
EX0836	PLEASE WSS COVER CLOSE	PER0836	A18.3	The setup staion door is opened. Please close the door.
EX0839	PP MAINTENANCE DOOR OPENED (*)	PER0839	A21.3	The door of pallet pool has been opened.maintenance setup station door and shutter (pallet pool) (*)---(1) machine side (2) pallet pool side
EX0841	APC DATA ERROR	PER0841	A18.6	There has been an APC data error. Recheck the data of the pallet pool. This alarm can be cancelled by the reset button of the pallet pool.

EX0846	STATION NOT FOUND	PER0846	A21.6	The station number of an search station has not been stored when the pallet is changed at the setup station. The alarm can be cancelled by the reset button of the pallet pool.
EX0854	P.P. INDEX TIME OVER	MER0854	A19.5	During pallet loading/unloading cycle pallet pool indexing exceeds time limit. (120 sec) This alarm can be cancelled by the reset button of the pallet pool.
EX0863	APC HOME POSITION OFF	MER0863	A18..4	The home position check signal of the APC has turned off during the APC cycle. This alarm can be cancelled by the reset button of the pallet pool.
EX0889	WSS HOME POSITION LS. OFF	MER0889	A18.5	The home position check signal of the setup station has turned off during the APC cycle. This alarm can be cancelled by the reset button of the pallet pool.
EX0890	PP-MOTOR INTERRUPTION IS ABNORMAL	MER0890	A22.3	Pallet pool motor shut off check signal error (time over). .shut off check signal is ON though power is not OFF at power supply . shut off check signal is OFF though power is OFF at power supply . shut off check signal is OFF though power is OFF at normal operation
EX0927	OUT OF SENSORING AREA	PER0927	A6.7	A table mount sensor UP command (M44) has been given when the table mount sensor is not in the UP position.
EX0928	APC NOT HOME POSITION	MER0928	A21.4	A table mount sensor UP command (M44) has been given when the APC is not in the home position.
EX0974	SENSOR UP,DOWN TIME OVER	MER0974	A23.6	A table mount sensor UP (vertical) or DOWN (horizontal) movement has not been completed within specified time.
EX0999	SEQUENCE PROGRAM ERROR	DER0999	A3.7	Sequence program is abnormal.

EX1024	DOOR MUST BE OPENED ONCE	PER1024	A7.4	Open and close the door before starting a new cycle.
EX1034	POWER MUST BE OFF	PER1034	A16.5	After turning off the power once, turn it on again.
EX1035	MONITOR PARAMETER ALARM	MER1035	A16.6	Parameter for load monitor function is improperly set.
EX1036	TEACHING ALARM	MER1036	A16.7	Teaching alarm has been activated.
EX1037	SPINDLE OVERLOAD	MER1037	A17.0	Spindle is overloaded.
EX1038	X-AXIS OVERLOAD	PER1038	17.1	X-axis is overloaded.
EX1039	Y-AXIS OVERLOAD	PER1039	A17.2	Y-axis is overloaded.
EX1040	Z-AXIS OVERLOAD	PER1040	A17.3	Z-axis is overloaded.
EX1047	MACHINE SPEC. PARAM. CLEARED	PER1047	A15.3	Parameter (D100-D109) for machine spec. is improperly set.
EX1050	SPINDLE LOAD WARNING	MER1050	A17.4	Spindle is overloaded. Warning level.
EX1051	X-AXIS LOAD WARNING	MER1051	A17.5	X-axis overload warning level.
EX1052	Y-AXIS LOAD WARNING	MER1052	A17.6	Y-axis overload warning level.
EX1053	Z-AXIS LOAD WARNING	MER1053	A17.7	Z-axis overload warning level.
EX1061	MOTOR INTERRUPTION ABNORMAL	MER1061	A14.3	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.
EX1157	ORT.OFF DURING ATC CYCLE	MER1157	A15.4	Orientation has been OFF during ATC cycle.

EX1158	ATC NOT FINISHED	MER1158	A15.5	Tool clamp detect signal has never turned off or arm pullout detect signal has never turned on when ATC cycle was finished.
EX1257	POWER-MATE ALARM	MER1257	A16.0	It has happened alarm at magazine motor or amplifier. Please refer to another table No. 1.
EX1258	POWER-MATE BATTERY ALARM	MER1258	A16.1	APC battery voltage is currently at the level that data cannot be maintained. Replace the battery.
EX1296	MG DOOR LK/ULK TIME OVER	MER1296	A14.2	After magazine door is locked/unlocked, the lock complete signal has not been turned on/off withing setting timer.
EX1446	ATC ARM NOT HOME POSITION	PER1446	A15.0	M19 command has been given when the ATC arm is not in home position.
EX1447	RIGID TAP MODE	PER1447	A15.1	M03, M04, M19, M06 or M33 command has been given during the rigid tap mode.
EX1449	SENSORING TOOL ON SPINDLE	PER1449	A15.2	An M03, M04, M19 or a 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	MER1581	A14.5	The chip conveyor outside the machine stops. Check abnormalities of the stop area.
EX1557	COOLANT FLOWING ABNORMAL	MER1557	A14.6	The coolant flow rate is abnormal.
EX1558	SP. THRU CLT. FLOWING ABNORMAL	MER1558	A14.7	The flow rate of the through spindle coolant is abnormal.
EX1576	COOLANT COOLING SYSTEM ERROR	MER1576	A1.0	The coolant cooling system is abnormal.

EX1593	SP. OIL & MIST LUB PRESSURE DOWN	MER1593	A8.2	The spindle oil-mist lubricant pressure has not heighten.
EX1594	SP. OIL & MIST LUB PRESSURE UP	MER1594	A8.3	Lubricant pressure has not lowered within the set time from spindle oil-mist lubricant pump turned off.
EX1595	SP. OIL & MIST WATCHDOG ALARM	MER1595	A8.4	The watch-dog alarm has been occurred in spindle oil-mist lubricant pressure has not heighten within the preset time.
EX1596	SP. OIL & MIST LEVEL LOW	MER1596	A9.3	Shortage of lubricant oil in spindle oil & mist lubricant unit. Add oil as necessary.
EX1597	AXIS OIL & MIST LEVEL LOW	MER1597	A10.6	Shortage of lubricant oil in axis oil & mist lubricant unit. Add oil as necessary.
EX1598	FIXTURE NOT CLAMP IN MACHINE	MER1598	A10.7	The cycle start button has been pushed when fixture in the machine is not clamp.
EX1752	PALLET SEATING SIGNAL OFF	MER1752	A15.6	On cutting pallet seating signal off. Check the pallet clamping correct.
EX1754	PALLET SEATING SIGNAL NOT OFF	MER1754	A15.7	During the APC cycle the seating complete signal has not been off.
EX1801	FROM-TO DATA UNMATCH	PER1801	A19.0	Output signal to pallet pool control box is not coincidence of the answer back signal from the control box. This alarm can be cancelled by the reset button of the pallet pool.
EX1802	PALLET STAY ON WSS	PER1802	A19.1	There is pallet on the setup station during the setup calling cycle. This alarm can be cancelled by the reset button of the pallet pool.
EX1803	PALLET DOES NOT STAY ON WSS	PER1803	A19.2	There is not a pallet on the setup station during the setup completion cycle. This alarm can be cancelled by the reset button of the pallet pool.

EX1804	WSS NOT HOME POSITION	PER1804	A19.3	Setup station is not home position during the setup station loading or unloading cycle. This alarm can be cancelled by the reset button of the pallet pool.
EX1806	CRANE STOP POSITION N. G.	PER1806	A18.7	During pallet indexing complete signal has been activated even though not at the target position.
EX1808	PALLET STAY ON M/C STATION	PER1808	A22.1	During the pallet loading cycle at the machining center, there is a pallet on the position for pallet change. The proximity switch may be defective or there may be on improper seating on the pallet pool data.
EX1809	PALLET DOES NOT STAY ON M/C ST.	PER1809	A22.2	During the pallet loading cycle at the machining center, there is no pallet on the position for pallet change. The proximity switch may be defective or there may be on improper seating on the pallet pool data.
EX1811	PALLET POOL ALARM (*)	PER1811	A19.6	Please refer to alarm table of pallet pool operation manual. This alarm can be cancelled by the reset button of the pallet pool.
EX1813	PALLET NO. NOT FOUND	PER1813	A19.7	The pallet number of an indexing target has not been stored when the pallet starts indexing. This alarm can be cancelled by the reset button of the pallet pool.
EX1814	NOT EMPTY STATION	PER1814	A20.0	There is no empty station when pallet is returning to the stocker. This alarm can be cancelled by the reset button of the pallet pool.
EX1817	PALLET DATA ERROR	PER1817	A20.2	Pallet pool data is mis-setting. This alarm can be cancelled by the reset button of the pallet pool.
EX1819	P.P. WSS ALARM (*)	PER1819	A20.4	Please refer to alarm table of pallet pool operation manual. This alarm can be cancelled by the reset button of the pallet pool.

EX1821	WSS NOT HOME POSITION	PER1821	A20.6	The set-fin, priority, cut-defer or unset button has been pushed while the setup station is not in the home position. This alarm can be cancelled by the reset button of the pallet pool.
EX1823	FORK NOT HOME POSITION	PER1823	A21.7	A pallet change command has been given while the fork of carrier is not in the home position.
EX1824	WORK NOT CLAMP ON WSS	PER1824	A22.5	Pallet pool index command has been given while work of setup station is not clamp. This alarm can be cancelled by the reset button of the pallet pool.
EX1858	FIXTURE CLAMP CHECK TIME OVER	MER1858	A21.5	The setup station fixture clamp complete signal has not been turned ON withing setting timer. This alarm can be cancelled by the reset button of the pallet pool.
EX1589	FORK HOME POSITION LS. OFF	MER1859	A22.0	The home position check signal of the fork of carrier has turned off during the APC cycle.
EX1862	SETUP ST DOOR LK/ULK TIME OVER	MER1862	A21.1	After setup station door is locked/unlocked, the lock complete signal has not been turned on/of withing setting imer.
EX1866	PALLET ALREADY EXIST IN STOCKER	MER1866	A06.2	There is pallet on the stocker during pallet pool index cycle. (*1)
EX1868	PALLET ALREADY EXIST ON CARRIAGE	MER1868	A07.5	There is pallet on the carriage during pallet pool index cycle. (*1)
EX1869	PALLET NOT EXISTING ON CARRIAGE	MER1869	A19.4	There is no pallet on the cariage during pallet pool indexing cycle.(*1)
EX1871	CARRIAGE POSITION ABNORMAL	MER1871	A16.2	Carriage position is abnormal. Execute manual zero return. (*1)
EX1872	FORK DEC. SIGNAL NOT ON	MER1872	A23.7	Fork forward and backward deceleration signal has not turned on during pallet pool index cycle. (*1)

EX1873	PP SHUTTER OPEN SIGNAL OFF	MER1873	A20.3	Setup station middle shutter open signal has turned off during pallet pool index cycle. (*1)
EX1923	PROGRAM NOT FINISHED	PER1923	A16.3	In another mode except M02, M30, M00 and M01, the weekly timer is started while the power is automatically cut off.
EX1955	WSS AUTO DOOR TIME OVER	PER1955	A16.4	The auto-door action of setup station has not been completed within the specified time.
EX1976	SPINDLE SENSOR ALARM  (* )	MER1976	A14.4	Alarm of spindle touch sensor occurred. (* )--- (1) Battery capacity is lowered. (2) Signal receiving is defective. (3) Sensor probe is not turned on or off. (4) Sensor probe is turned on.
EX2028	PUSH SINGLE BLOCK SWITCH	PER2028	A07.6	Cycle start button was pressed at single block OFF status.
EX2029	CYCLE START NOT PERMITTED	PER2029	A07.7	Single block was turned off or door was opened during automatic cycle.
EX2909	DOOR NOT CLOSE	PER2909	A16.2	While the main power is turned on by weekly timer, the operators door is not closed.
EX4002	OPEN THE DOOR THEN CLOSE	PER4002	A23.1	After turning on the power, open the door once and close again.
EX4003	DOOR INTERLOCK RELEASED	PER4003	A23.2	Door lock is specified while the door interlock is released.
EX4004	DOOR NOT CLOSED	PER4004	A23.3	While the door is open, the door lock is specified.
EX4006	DOOR INTERLOCK RELEASED	PER4006	A23.4	A cycle start has been activated while the door interlock key-switch is released.
EX4007	DOOR INTERLOCK NOT RELEASED	PER4007	A23.5	After the door interlock function released state is cancelled, door interlock function is released again before monitor circuit becomes normal.