

1- 999: User Defined Errors

User defined errors are errors generated by the user program with an ERROR statement. It is recommended that unique user generated errors utilize error numbers from 1 to 999 to prevent possible overlap with future releases of MotionBASIC®.

1000 - 1099: Syntax Errors

Syntax errors are caused by an incorrect, unexpected, or missing keyword, parameter, or delimiter. They can be fixed by editing the program at the line that the error exists.

1000: Syntax error	1017: Expected comma
1001: Invalid line number	1018: Expected comma or semicolon
1002: Missing subscript	1019: Expected semicolon
1003: Read-only variable	1020: Expected left paren
1004: MOVE syntax error	1021: Expected right paren
1005: Error in data	1022: Expected equal sign
1006: Expected command	1023: Expected GOTO
1007: Garbage after statement	1024: Expected THEN
1008: Too many parameters	1025: Expected TO
1009: Not enough parameters	1026: Expected ON, OFF or STOP
1010: Expected expression	1027: Expected a numeric variable
1011: Expected user variable name	1028: Expected an EVENT input signal
1012: Expected variable name	1029: GEAR syntax error
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1014: Expected a number	1031: Expected IN or AT to specify gear ratio
1015: Expected a line number or label	1032: Expected a string variable
-----	1033: Invalid user variable or resource

1100 - 1199: Program Structure Errors

Program structure errors are caused by an unexpected or missing statement. They can be fixed by adding, deleting, or changing a line in the program.

1101: Missing equal sign or undefined line number/label	1117: Statement cannot be nested
1102: FOR without NEXT	1118: Statement not allowed inside a FOR loop
1103: NEXT without FOR	1119: Statement not allowed
1104: GOSUB without RETURN	*1120: Unexpected end of module
1105: RETURN without GOSUB	*1121: RESUME without thread
1106: WHILE without WEND	*1122: CANNOT END AN ERROR THREAD
1107: WEND without WHILE	*1123: RETURN from EVENT cannot specify a label
1108: ELSE/ELSEIF without IF-THEN block	-----
1109: Missing ENDIF	1199: Statement not allowed during SEIZE with timeout
1110: RESUME without error	
1111: Out of data	
1112: Excess data	
1113: Function not found	
1114: Duplicate definition	
1115: Block structure must be the first statement	
1116: Missing FIELD statement	

1200 - 1299: Expression Errors

Expression errors are caused by a numeric or string value out of range, or an incorrect variable type. They can be fixed by changing the value, or type of variable/constant.

1201: Illegal function call	1217: Function evaluation error
1202: Numeric overflow	1218: Range error from INPUT@ high limit
1203: Subscript out of range	1219: Range error from INPUT@ low limit
1204: Division by zero	1220: Expected a positive number
1205: Type mismatch	1221: No such Ormec variable
1206: String too long	1222: Array not dimensioned
1207: String formula too complex	-----
1208: Numeric underflow	1224: Expected set
1209: Invalid numeric operation	1225: Invalid set element
1210: Precision error	1226: Record length exceeded
1211: Integer division by zero	1227: Invalid FIELD variable
1212: Parameter out of range	1228: NV prefix too long
1213: Expected string	1229: Cannot change NV prefix
1214: Expected integer	*1230: Illegal NV variable type
1215: Expected long	*1231: Invalid thread ID
1216: Empty string	*1232: Uninitialized Variable

1300 - 1399: I/O Errors

I/O Errors are caused by an error during an attempted I/O operation. They are not caused by an error in the I/O statement itself.

1301: File not found	-----
1302: Cannot create file	1324: PC Card is write protected
1303: Input past end	1325: Invalid path
1304: Bad filename	1326: Disk full
1305: Direct statement in file	-----
1306: Invalid baud rate	1329: File save failed
1307: Cannot open device/file	1330: PC Card may contain data
1308: Device/File already open	1331: Unable to FORMAT PC Card
1309: Device not open	-----
1310: Device write failed	1334: Bad file mode
1311: Cannot close device	1335: Device seek failed
1312: Device read failed	1336: ITM-270 Communications Failure
1313: Illegal discrete I/O statement	1337: Path/File Access Error
1314: Device not opened for writing	1338: Cannot open protected file
1315: Device not opened for reading	1339: Disk is full
1316: EIO.MODE@ not set for Pamux	1340: Cannot format a system card
1317: Timeout during AIO access	1341: Invalid drive specified
1318: Illegal analog I/O statement	1342: System card not found
1319: Invalid IO.MODE@ configuration	*1343: Changing baud not allowed with TCP/IP
1320: IO.MODE@ for Pamux write only	*1344: Cannot configure I/O for M-Stop operation
1321: Too many timed DIO@ pts active	*1345: M-Stop configuration conflicts with hwd
1322: No PC Card installed	*1346: I/O pair not configured M-Stop operation
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* Indicates an Error neither present nor relevant in MotionBASIC prior to version 4.x
** Indicates an Error neither present nor relevant in MotionBASIC prior to version 5.x

1400 - 1599: (Reserved)

1600 - 1699: Motion Errors

Motion errors are caused by a situation preventing the completion of a motion as prescribed by the motion statement.

- 1601: Velocity out of range
 - 1602: Accel or decel out of range
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 - 1604: Illegal motion sequence
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 - 1606: Invalid axis ID
 - 1607: Axis mode is incorrect
 - 1608: Fwd software travel limit
 - 1609: Rev software travel limit
 - 1610: Illegal while DSP busy
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 - 1612: Specified gear ratio is out of range
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 - 1614: Fwd hardware travel limit
 - 1615: Rev hardware travel limit
 - 1616: DSP queue too full for REPEAT
 - 1617: Hardware travel limit Configuration Error
- *1618: Project file contains non-existent axis id
 - *1619: Invalid Motion ID
 - *1620: Duplicate Motion ID was specified
 - *1621: Cannot Prepare Motion
 - *1622: Out of Motion Memory on Axis
 - *1623: Incompatible Prepared Motion
 - *1624: Unprepared Motion ID
 - *1625: Specified axis ID not in project file
 - *1626: Blend would exceed last target distance
 - *1627: Blending distance illegal during final decel
 - **1628: Over temperature condition exists
 - **1629: Temperature sensor configuration error
 - **1630: Brake Mode is incorrect
 - **1631: Not supported for auxiliary axis

1700 - 1799: (Reserved)

1800 - 1899: System Errors

System errors are caused by a system or hardware limitation, incorrect mode, etc.

- 1801: Out of memory
 - 1802: Illegal direct
 - 1803: Out of string space`
 - 1804: Cannot continue
 - 1805: ABORT or Ctrl-Break detected
 - 1806: Input buffer overflow
 - 1807: Too many levels of nesting
 - 1808: Illegal indirect
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 - 1810: Program buffer write protected
 - 1811: Token buffer overflow
 - 1812: Illegal while FAULT@ is non-zero
 - 1813: Illegal while ESTOP.OK@ is False
 - 1814: Illegal while AFAULT@ is non-zero
 - 1815: MotionDATA not available
 - 1816: Program buffer read protected
 - 1817: Out of NV memory
 - 1818: No NV memory installed
 - 1819: Out of program memory
- *1820: Function/Command Not Supported
 - *1821: Too many HOLDs without a RELEASE
 - *1822: RELEASE without HOLD
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 - *1824: HOLD.CNT@ is non-zero when SEIZEing
 - *1825: Could not create a thread
 - *1826: Illegal Operation using D-Mode Thread ID
 - *1827: Thread state must be STOPPED
 - *1828: Illegal while MSTOP.OK@ is FALSE
 - *1829: Illegal while MFAULT@ is non-zero
 - *1830: No Type change from EVENT to ERROR
 - *1831: No Type change from ERROR to EVENT
 - *1832: Thread already assigned another EVENT
 - **1833: MotionData Configuration Error
 - **1834: ServoWire Communications Timeout
 - **1835: Unsupported Option Error
 - **1836: MotionDesk/MotionBASIC Incompatibility
No FTP Allowed

1900 - 1999: Controller Fault Errors ... NO FAULT relay will open.

System errors are Caused by a hardware limitation of the controller. 1900-1909 are reserved for user generated controller fault errors, which permits the user to issue an error which opens the no-fault relay. The user generated controller fault error is reported in the FAULT@ variable bit 8... Machine Fault.

- 1910: E-Stop OK input open
- 1911: Axis fault
- 1912: Internal error
- 1913: DSP axis module failure
- 1914: String space corrupted!
- 1915: Incompatible MBX version
- 1916: MBX out of memory
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- 1918: MBX not installed
- 1919: Checksum Error
- 1920: MotionCREDIT Verification Failure
- *1921: M-Stop OK input open
- **1922: ServoWire network fault
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- 1998: Watchdog timeout
- 1999: Temporary power loss

9000 - 9999: MBX Errors

Although not strictly a part of MotionBASIC, but rather associated with typical MotionBASIC Extensions, MBX's, the following errors are also listed.

- 9001: Register not mapped
 - 9002: Invalid map
 - 9003: Timeout accessing variable
 - 9004: Register modified
 - 9005: DH communications card error
 - 9006: DH card or driver not installed
 - 9007: Invalid PLC5 file address
 - 9008: Driver not installed
 - 9009: Not allowed as Modbus slave
 - 9010: Not allowed as MotionNET slave
 - 9011: DIO point already mapped
 - 9012: Illegal while communications are enabled
 - 9013: Invalid configuration
 - 9014: Lost remote communications
 - 9015: Task already active
 - 9016: Timeout waiting for reply
 - 9017: Error in reply message
 - 9018: Incompatible remote I/O configuration
 - 9019: Remote I/O not configured
 - 9020: Communications are disabled
- 9021: RTU Mode requires 8 data bits
 - 9021: RTU Mode requires 8 data bits
 - 9022: Dancer at limit
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 - 9027: Requested MD.MODE@ value
incompatible with other axis
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 - 9030: Requested values for MODE@ and
MD.MODE@ are incompatible
 - 9031: Minimum Tension Limit
 - 9032: Maximum Tension Limit

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