

FAULT_TYPE_MCE	0x0E
(Motor Controller Faults)	
FAULT_CODE_Battery	E-00
FAULT_CODE_InvalidHallState	E-01
FAULT_CODE_I2T	E-02
FAULT_CODE_MotorStall	E-03
FAULT_CODE_OverCurrent	E-04
FAULT_CODE_OverTemperature	E-05
FAULT_CODE_CurrentOffsetFault	E-06
FAULT_CODE_ShuntCal	E-07
FAULT_CODE_TorqueOffsetFault	E-08
FAULT_CODE_TransducerFault	E-09
FAULT_CODE_StepTimeOut	E-0A
FAULT_CODE_ConfigTimeout	E-0B
FAULT_CODE_OverTorque	E-0C --Receive from MCE, not show on Display
FAULT_CODE_OverAngle	E-0D --Receive from MCE, not show on Display
FAULT_CODE_CurrentPlausibilityHigh	E-0E
FAULT_CODE_UnderTorque	E-0F --Receive from MCE, not show on Display
FAULT_CODE_UnderAngle	E-10 --Receive from MCE, not show on Display
FAULT_CODE_CurrentPlausibilityLow	E-11
FAULT_CODE_EarlyTriggerRelease	E-12
FAULT_CODE_Watchdog	E-13
FAULT_CODE_Motor Controller Stop Timeout/	
Motor Controller Brake Timeout	E-14
FAULT_CODE_Rehit Fault	E-1A
FAULT_CODE_BatteryCellFault	E-1B
FAULT_CODE_LowBattery	E-1C
FAULT_CODE_CriticalBattery	E-1D
FAULT_CODE_Shutdown	E-1E

FAULT_CODE_Wakeup	E-1F
FAULT_CODE_THRESHOLDS_VIOLATED	E-20

FAULT_TYPE_PSET	0x0C
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(PSet Faults)

FAULT_CODE_VOID_PSET	C-20
FAULT_CODE_VOID_FACDATA	C-99
FAULT_CODE_QXM2FAULT	C-1A
FAULT_CODE_PSET_TARGET_ZERO	C-21
FAULT_CODE_PSET_TARGET_OVERMAX	C-22
FAULT_CODE_PSET_TARGET_HIGHLMT	C-23
FAULT_CODE_PSET_TARGET_LOWLMT	C-24
FAULT_CODE_PSET_TORQUE_HIGHLIMIT	C-25
FAULT_CODE_PSET_ANGLE_HIGHLMT	C-26
FAULT_CODE_PSET_TORQUE_LOWLMT	C-27
FAULT_CODE_PSET_ANGLE_LOWLMT	C-28
FAULT_CODE_PSET_SHIFTDOWN_SPEED	C-29
FAULT_CODE_PSET_FREERUN_SPPED	C-2A
FAULT_CODE_PSET_ACC	C-2B
FAULT_CODE_PSET_STRATEGY	C-2C

FAULT_TYPE_COMM	0x0B
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(Communiation Faults)

COMM_LOSS_LOCK	B-06
COMM_FAULT_NO_NETWORK	B-80
COMM_FAULT_ST_RF	B-D0 --Wireless Stack Problem

FAULT_TYPE_MCE_COMM 0x0A

(MCE Communication Faults)

#define FAULT_CODE_MCE_OFF A-10

#define FAULT_CODE_UNCOMPLETE_CYCLE A-02 --Last cycle was not completed.

FAULT_TYPE_LOCK 0x09

Lock Icon-XX

XX--Hex format for 8-Bit binary lock information

b00000001--Tool Enable Lock

b00000010--PSet Lock

b00000100--Job Lock

b00001000--IO Lock

b00010000--PM

b00100000--Fail Cycle Lock

b01000000--Barcode Lock

FAULT_TYPE_FWUP 0x06

(Firmware Upgrade Faults)

FAULT_CODE_FWUP1 6-01--NO Comm with MCE or Fail to clear backup memory

FAULT_CODE_FWUP2 6-02--Fail to get Image Data

FAULT_CODE_FWUP3 6-03--Fail to write Image Data to MCE

FAULT_CODE_FWUP4 6-04--Fail to do checksum in MCE

FAULT_CODE_FWUP5 6-05--Fail to read the checksum from MCE

FAULT_CODE_FWUP6 6-06--Fail to verify the MCE checksum

FAULT_CODE_FWUP7 6-07--Fail to clear checksum.

FAULT_INVALID_SIZE 6-F1--invalid image size

FAULT_INVALID_CHECKSUM 6-F2--invalid image checksum

FAULT_INVALID_IMAGE_ID 6-F3--invalid image ID

FAULT_TYPE_INTERNAL	0x0D
(Fault Type 0x0D System/HW Faults)	
FAULT_CODE_PM_ALARM_TIMER	D-F1
FAULT_CODE_EOR_RADIO_TIMER	D-F2
FAULT_CODE_EOR_USB_TIMER	D-F3
FAULT_CODE_COMM_LOCK_TIMER	D-F4
FAULT_CODE_EOR_WF_TIMER	D-F5
FAULT_CODE_EOR_BLE_TIMER	D-F6
FAULT_CODE_MAC_TRACE	D-F7
FAULT_CODE_MCE_TIMEOUT_TIMER	D-F8
Error_Handler--Clock Error1	D-01
Error_Handler--Clock Error2	D-02
Error_Handler--Clock Error3	D-03
Error_Handler--Uart Error1	D-04 -Not Used
Error_Handler--Uart Error2	D-05 -Not Used
Error_Handler--Uart Error3	D-06 -Not Used
Error_Handler--Uart Error4	D-07
Error_Handler--SPI1 Error	D-08
Error_Handler--SPI2 Error	D-09
Error_Handler--SPI2 Error	D-0A
Error_Handler--Timer Error1	D-0B
Error_Handler--Timer Error2	D-0C
Error_Handler--Timer Error3	D-0D
Error_Handler--RTC Error1	D-0E
Error_Handler--RTC Error2	D-0F
Error_Handler--Uart Callback Error	D-10 -Not Used
Error_Handler--SPI callback Error	D-11
Error_Handler--RTC Clock Error 1	D-12

Error_Handler--RTC Clock Error2	D-13
Error_Handler--RTC SetTime Error	D-14
Error_Handler--RTC SetData Error	D-15
Error_Handler--MCE Uart Rx Error	D-16
Error_Handler--MCE Uart Error1	D-17
Error_Handler--MCE Uart Error2	D-18
Error_Handler--MCE Uart Error3	D-19
Error_Handler--MCE Uart Error4	D-1A
Error_Handler--MCE Uart Tx Error	D-1B
Error_Handler--USB Clock Error	D-1C
Error_Handler--USB Error1	D-1D
Error_Handler--USB Error2	D-1E
Error_Handler--USB Error3	D-1F
Error_Handler--USB Error4	D-20
Error_Handler--USB Error5	D-21
Error_Handler--USB Error6	D-22
Error_Handler--EEPROM Error1	D-23
Error_Handler--EEPROM Error2	D-24
Error_Handler--BLE Error1	D-25
Error_Handler--BLE Error2	D-26
Error_Handler--Timer Error4	D-27
Error_Handler--Read Wireless Stack Error	D-28
Error_Handler--Wrong Wireless Stack	D-29

FAULT_TYPE_PM_ALARM_TIME	0x02
	2-01 – PM alarm Grease Gear case
	2-02 -- PM alarm Grease Angle Head
	2-03 – PM alarm Grease Offset Head
	2-04 -- PM alarm Grease Tubenut head

2-05 – PM alarm Tool calibration

FAULT_TYPE_PM_ALARM_CYCLE

0x03

3-01 – PM alarm Grease Gear case

3-02 -- PM alarm Grease Angle Head

3-03 – PM alarm Grease Offset Head

3-04 -- PM alarm Grease Tubenut head

3-05 – PM alarm Tool calibration

3-PM Alarm Code
