

MODEL S ALERT CODES

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A Diagnostic Trouble Code (DTC) is an alphanumeric identifier for a fault condition identified by the On Board Diagnostic System (SAE j1930 v003). Tesla's diagnostic process does not generally rely on DTCs, however, and instead relies on event based troubleshooting via "alerts."

An alert is how the electronic control unit (ECU) denotes and records an event of interest. This can include faults, abnormal behavior, normal behavior, a particular use case (shift with foot off brake, driving with door open, etc.), and many other events. The key distinction is that Tesla alerts are event based troubleshooting as opposed to fault condition based troubleshooting.

Alerts can also trigger behaviors and/or messages on the User Interface (UI) to communicate with the driver in special circumstances where Tesla wants the driver to perform an action as a result of the event. For example, if the vehicle detects that the hood is unlatched, it can alert the driver that the hood is unlatched in addition to a traditional telltale. The UI may display a telltale, make a sound, change the UI, or display a message, depending on the UI behavior associated with the alert (if any).

Note: Some alerts apply only to certain vehicles, configurations, or markets. These alerts correspond to firmware version 2017.48.8. Alerts are subject to change as firmware versions change. New firmware versions are released regularly, and not all customer vehicles receive updates at the same time. Thus, no single firmware version will correspond to all customer vehicles at any given time.

Signal Name	APP_w009_aebFault
Shown to Customer	True
Debug Text	APP_w009_aebFault
User Message	Automatic Emergency Braking Is Disabled:
Chime / Notification Behavior	<ul style="list-style-type: none">Behavior Name: CLUSTER_NO_CHIMEShown on Cluster: FalseSound Repeated: FalseSound Name: ALERT_SOUND_NONEIcon Type: ALERT_ICON_WARNING

Signal Name	APP_w225_IcDegradedVisSpeedLmt
Shown to Customer	True
Debug Text	APP_w225_IcDegradedVisSpeedLmt
User Message	Autosteer Max Speed Is Limited: Contact Tesla Service for Manual Calibration
Chime / Notification Behavior	<ul style="list-style-type: none">Behavior Name: CLUSTER_SINGLE_CHIMEShown on Cluster: FalseSound Repeated: FalseSound Name: ALERT_SOUND_CHIMEIcon Type: ALERT_ICON_WARNING

Signal Name	BMS_f001_HW_Over_Current
Shown to Customer	True
Debug Text	BMS_f001_HW_Over_Current
User Message	Car Needs Service: PULL OVER SAFELY
Chime / Notification Behavior	<ul style="list-style-type: none">Behavior Name: CLUSTER_SINGLE_CHIME_BATTERY_CUTOFFShown on Cluster: FalseSound Repeated: FalseSound Name: ALERT_SOUND_CHIMEIcon Type: ALERT_ICON_WARNING

Signal Name	BMS_f002_HW_Over_Voltage
Shown to Customer	True
Debug Text	BMS_f002_HW_Over_Voltage
User Message	Car Needs Service: PULL OVER SAFELY
Chime / Notification Behavior	<ul style="list-style-type: none"> • Behavior Name: CLUSTER_SINGLE_CHIME_BATTERY_CUTOFF • Shown on Cluster: False • Sound Repeated: False • Sound Name: ALERT_SOUND_CHIME • Icon Type: ALERT_ICON_WARNING

Signal Name	BMS_f003_HW_Module_Alarm
Shown to Customer	True
Debug Text	BMS_f003_HW_Module_Alarm
User Message	Car Needs Service: PULL OVER SAFELY
Chime / Notification Behavior	<ul style="list-style-type: none"> • Behavior Name: CLUSTER_SINGLE_CHIME_BATTERY_CUTOFF • Shown on Cluster: False • Sound Repeated: False • Sound Name: ALERT_SOUND_CHIME • Icon Type: ALERT_ICON_WARNING

Signal Name	BMS_f009_SW_Pos_Contactor_Drive
Shown to Customer	True
Debug Text	BMS_f009_SW_Pos_Contactor_Drive
User Message	Car Needs Service: PULL OVER SAFELY
Chime / Notification Behavior	<ul style="list-style-type: none"> • Behavior Name: CLUSTER_SINGLE_CHIME_BATTERY_CUTOFF • Shown on Cluster: False • Sound Repeated: False • Sound Name: ALERT_SOUND_CHIME • Icon Type: ALERT_ICON_WARNING

Signal Name	BMS_f010_SW_Neg_Contactor_Drive
Shown to Customer	True
Debug Text	BMS_f010_SW_Neg_Contactor_Drive
User Message	Car Needs Service: PULL OVER SAFELY
Chime / Notification Behavior	<ul style="list-style-type: none"> • Behavior Name: CLUSTER_SINGLE_CHIME_BATTERY_CUTOFF • Shown on Cluster: False • Sound Repeated: False • Sound Name: ALERT_SOUND_CHIME • Icon Type: ALERT_ICON_WARNING



Signal Name	BMS_f011_HW_Illegal_Ctr_Req
Shown to Customer	True
Debug Text	BMS_f011_HW_Illegal_Ctr_Req
User Message	Car Needs Service: Unable to Start Car
Chime / Notification Behavior	<ul style="list-style-type: none">• Behavior Name: CLUSTER_SINGLE_CHIME_BATTERY_CUTOFF• Shown on Cluster: False• Sound Repeated: False• Sound Name: ALERT_SOUND_CHIME• Icon Type: ALERT_ICON_WARNING

Signal Name	BMS_f016_SW_Thermal_Gradient
Shown to Customer	True
Debug Text	BMS_f016_SW_Thermal_Gradient
User Message	Car Needs Service: PULL OVER SAFELY
Chime / Notification Behavior	<ul style="list-style-type: none">• Behavior Name: CLUSTER_SINGLE_CHIME_BATTERY_CUTOFF• Shown on Cluster: False• Sound Repeated: False• Sound Name: ALERT_SOUND_CHIME• Icon Type: ALERT_ICON_WARNING

Signal Name	BMS_f017_SW_Brick_OV
Shown to Customer	True
Debug Text	BMS_f017_SW_Brick_OV
User Message	Car Needs Service: PULL OVER SAFELY
Chime / Notification Behavior	<ul style="list-style-type: none">• Behavior Name: CLUSTER_SINGLE_CHIME_BATTERY_CUTOFF• Shown on Cluster: False• Sound Repeated: False• Sound Name: ALERT_SOUND_CHIME• Icon Type: ALERT_ICON_WARNING

Signal Name	BMS_f018_SW_Brick_UV
Shown to Customer	True
Debug Text	BMS_f018_SW_Brick_UV
User Message	Battery Power Too Low: Charge Battery
Chime / Notification Behavior	<ul style="list-style-type: none">• Behavior Name: CLUSTER_SINGLE_CHIME• Shown on Cluster: False• Sound Repeated: False• Sound Name: ALERT_SOUND_CHIME• Icon Type: ALERT_ICON_WARNING

Signal Name	BMS_f020_SW_BMB_PCB_OT
Shown to Customer	True
Debug Text	BMS_f020_SW_BMB_PCB_OT
User Message	Car Needs Service: PULL OVER SAFELY
Chime / Notification Behavior	<ul style="list-style-type: none"> • Behavior Name: CLUSTER_SINGLE_CHIME_BATTERY_CUTOFF • Shown on Cluster: False • Sound Repeated: False • Sound Name: ALERT_SOUND_CHIME • Icon Type: ALERT_ICON_WARNING

Signal Name	BMS_f022_SW_Over_Current
Shown to Customer	True
Debug Text	BMS_f022_SW_Over_Current
User Message	Car Needs Service: PULL OVER SAFELY
Chime / Notification Behavior	<ul style="list-style-type: none"> • Behavior Name: CLUSTER_SINGLE_CHIME_BATTERY_CUTOFF • Shown on Cluster: False • Sound Repeated: False • Sound Name: ALERT_SOUND_CHIME • Icon Type: ALERT_ICON_WARNING

Signal Name	BMS_f024_SW_Ctrs_Open_Under_Load
Shown to Customer	True
Debug Text	BMS_f024_SW_Ctrs_Open_Under_Load
User Message	Car Needs Service: PULL OVER SAFELY
Chime / Notification Behavior	<ul style="list-style-type: none"> • Behavior Name: CLUSTER_SINGLE_CHIME_BATTERY_CUTOFF • Shown on Cluster: False • Sound Repeated: False • Sound Name: ALERT_SOUND_CHIME • Icon Type: ALERT_ICON_WARNING

Signal Name	BMS_f029_SW_Current_Sensor_Reset
Shown to Customer	True
Debug Text	BMS_f029_SW_Current_Sensor_Reset
User Message	Car Needs Service: PULL OVER SAFELY
Chime / Notification Behavior	<ul style="list-style-type: none"> • Behavior Name: CLUSTER_SINGLE_CHIME_BATTERY_CUTOFF • Shown on Cluster: False • Sound Repeated: False • Sound Name: ALERT_SOUND_CHIME • Icon Type: ALERT_ICON_WARNING

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