

# Android 9.0 API – BMW

## Tasker Commands

CAN Type: F1X(2011-2012) CIC 8.8/10.25inch

|                    |            |
|--------------------|------------|
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| Dictionary Version | 1.04       |

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# Commands

## 0x60-0x61 : Set Air Condition temperature

*Air Cond temperature +1*

```
echo -e "\xf2\x00\x60\x01\x01\x9d" > /dev/ttyS3
```

Not working

*Air Cond temperature -1*

```
echo -e "\xf2\x00\x61\x02\x01\x81\x1a" > /dev/ttyS3
```

Not working

## 0x62 : Set Volume to 40

unMute

*MUSIC type 1, 2 or 3*

```
echo -e "\xf2\x00\x62\x04\x01\x01\x28\x6e" > /dev/ttyS3
```

```
echo -e "\xf2\x00\x62\x04\x01\x01\x02\x28\x6d" > /dev/ttyS3
```

```
echo -e "\xf2\x00\x62\x04\x01\x01\x03\x28\x6c" > /dev/ttyS3
```

*MOVIE type 2 or 3*

```
echo -e "\xf2\x00\x62\x04\x01\x02\x02\x28\x6c" > /dev/ttyS3
```

```
echo -e "\xf2\x00\x62\x04\x01\x02\x03\x28\x6b" > /dev/ttyS3
```

*RADIO type 21*

```
echo -e "\xf2\x00\x62\x04\x01\x1a\x15\x28\x41" > /dev/ttyS3
```

Mute

*MUSIC type 1, 2 or 3*

```
echo -e "\xf2\x00\x62\x04\x00\x01\x01\x28\x6f" > /dev/ttyS3
```

```
echo -e "\xf2\x00\x62\x04\x00\x01\x02\x28\x6e" > /dev/ttyS3
```

```
echo -e "\xf2\x00\x62\x04\x00\x01\x03\x28\x6d" > /dev/ttyS3
```

*MOVIE type 2 or 3*

```
echo -e "\xf2\x00\x62\x04\x00\x02\x02\x28\x6d" > /dev/ttyS3
```

```
echo -e "\xf2\x00\x62\x04\x00\x02\x03\x28\x6c" > /dev/ttyS3
```

*RADIO type 21*

```
echo -e "\xf2\x00\x62\x04\x00\x1a\x15\x28\x42" > /dev/ttyS3
```

## 0x67 : Set Sound Source

*SRC\_MUSIC*

```
echo -e "\xf2\x00\x67\x01\x01\x96" > /dev/ttyS3
```

*SRC\_MOVIE*

```
echo -e "\xf2\x00\x67\x01\x02\x95" > /dev/ttyS3
```

*SRC\_BT*

```
echo -e "\xf2\x00\x67\x01\x03\x94" > /dev/ttyS3
```

*SRC\_BTMUSIC*

```
echo -e "\xf2\x00\x67\x01\x04\x93" > /dev/ttyS3
```

*SRC\_DVR*

```
echo -e "\xf2\x00\x67\x01\x05\x92" > /dev/ttyS3
```

*SRC\_AUX*

```
echo -e "\xf2\x00\x67\x01\x06\x91" > /dev/ttyS3
```

*SRC\_MOBILE\_APP*

```
echo -e "\xf2\x00\x67\x01\x07\x90" > /dev/ttyS3
```

*SRC\_DVD*

```
echo -e "\xf2\x00\x67\x01\x08\x8f" > /dev/ttyS3
```

*SRC\_CMMA*

```
echo -e "\xf2\x00\x67\x01\x09\x8e" > /dev/ttyS3
```

*SRC\_RADIO*

```
echo -e "\xf2\x00\x67\x01\x0a\x8d" > /dev/ttyS3
```

*SRC\_ATSL\_AIRCONSOLE*

```
echo -e "\xf2\x00\x67\x01\x0d\x8a" > /dev/ttyS3
```

## 0x69 : MCU State Information Set

```
HU Powered off: 16, 1
echo -e "\xf2\x00\x69\x02\x10\x01\x83" > /dev/ttyS3

Arm in upgrade mode: 16, 3
echo -e "\xf2\x00\x69\x02\x10\x03\x81" > /dev/ttyS3

OEM View: 18, 1
echo -e "\xf2\x00\x69\x02\x12\x01\x81" > /dev/ttyS3

OEM Switch View: 18,2
echo -e "\xf2\x00\x69\x02\x12\x02\x80" > /dev/ttyS3

OEM Stop Voice: 19,0
echo -e "\xf2\x00\x69\x02\x13\x00\x81" > /dev/ttyS3

OEM Start Voice: 19,1
echo -e "\xf2\x00\x69\x02\x13\x01\x80" > /dev/ttyS3

Android Playstate off: 20,0
echo -e "\xf2\x00\x69\x02\x14\x00\x80" > /dev/ttyS3

Android Playstate on: 20,1
echo -e "\xf2\x00\x69\x02\x14\x01\x7f" > /dev/ttyS3
```

goto OEM no sound cut

## 0x6A : HU State Set

```
Set Black Screen: Shut Screen off
echo -e "\xf2\x00\x6a\x02\x0d\x00\x86" > /dev/ttyS3

Set Black Screen: Shut Screen on
echo -e "\xf2\x00\x6a\x02\x0d\x01\x85" > /dev/ttyS3
```

## 0x6C : Set Brightness level

```
Set to 0
echo -e "\xf2\x00\x6c\x01\x00\x92" > /dev/ttyS3

Set to 33
echo -e "\xf2\x00\x6c\x01\x21\x71" > /dev/ttyS3

Set to 50
echo -e "\xf2\x00\x6c\x01\x32\x60" > /dev/ttyS3

Set to 66
echo -e "\xf2\x00\x6c\x01\x42\x50" > /dev/ttyS3

Set to 100
echo -e "\xf2\x00\x6c\x01\x64\x2e" > /dev/ttyS3
```

## 0x6F : Message Beat Timer

```
Stop BeatTimer, Set to 0
echo -e "\xf2\x00\x6f\x01\x00\x8f" > /dev/ttyS3

Reset Messages, Set to 1
echo -e "\xf2\x00\x6f\x01\x01\x8e" > /dev/ttyS3

Normal Mode, Set to 2
echo -e "\xf2\x00\x6f\x01\x02\x8d" > /dev/ttyS3
```

## 0x74 : Cmd Wheel State

```
Clear All Activity: launch 4 commands
echo -e "\xf2\x00\x74\x01\x05\x85" > /dev/ttyS3
echo -e "\xf2\x00\x74\x01\x06\x84" > /dev/ttyS3
echo -e "\xf2\x00\x74\x01\x08\x82" > /dev/ttyS3
echo -e "\xf2\x00\x74\x01\x09\x81" > /dev/ttyS3
```

## 0x75 : Set Radio FM

```
Set FM Radio Frequency to 105.7 (France Info)
(105.70 = 10570 = 0x294a => Byte5 = 29, Byte6 = 4a)
echo -e "\xf2\x00\x75\x03\x01\x29\x4a\x13" > /dev/ttyS3

Shut off radio & set to FM 105.7
echo -e "\xf2\x00\x75\x03\x02\x29\x4a\x12" > /dev/ttyS3
```

# Commands : Carplay Carlinkit Autokit

## *Carplay Home*

```
am broadcast -a cn.manstep.phonemirrorBox.AUTO_BOX_CONTROL_CMD_EVT  
-ei cn.manstep.phonemirrorBox.AUTO_BOX_CONTROL_CMD_DATA 9
```

## *Carplay Music Play*

```
am broadcast -a cn.manstep.phonemirrorBox.AUTO_BOX_CONTROL_CMD_EVT  
-ei cn.manstep.phonemirrorBox.AUTO_BOX_CONTROL_CMD_DATA 10
```

## *Carplay Music Pause*

```
am broadcast -a cn.manstep.phonemirrorBox.AUTO_BOX_CONTROL_CMD_EVT  
-ei cn.manstep.phonemirrorBox.AUTO_BOX_CONTROL_CMD_DATA 11
```

## *Carplay Music Play Pause*

```
am broadcast -a cn.manstep.phonemirrorBox.AUTO_BOX_CONTROL_CMD_EVT  
-ei cn.manstep.phonemirrorBox.AUTO_BOX_CONTROL_CMD_DATA 12
```

## *Carplay Music Next Song*

```
am broadcast -a cn.manstep.phonemirrorBox.AUTO_BOX_CONTROL_CMD_EVT  
-ei cn.manstep.phonemirrorBox.AUTO_BOX_CONTROL_CMD_DATA 13
```

## *Carplay Music Prev Song*

```
am broadcast -a cn.manstep.phonemirrorBox.AUTO_BOX_CONTROL_CMD_EVT  
-ei cn.manstep.phonemirrorBox.AUTO_BOX_CONTROL_CMD_DATA 14
```

## *Carplay Phone Answer*

```
am broadcast -a cn.manstep.phonemirrorBox.AUTO_BOX_CONTROL_CMD_EVT  
-ei cn.manstep.phonemirrorBox.AUTO_BOX_CONTROL_CMD_DATA 15
```

## *Carplay Phone Hand Up*

```
am broadcast -a cn.manstep.phonemirrorBox.AUTO_BOX_CONTROL_CMD_EVT  
-ei cn.manstep.phonemirrorBox.AUTO_BOX_CONTROL_CMD_DATA 16
```

## *Carplay Map Launch*

```
am broadcast -a cn.manstep.phonemirrorBox.AUTO_BOX_CONTROL_CMD_EVT  
-ei cn.manstep.phonemirrorBox.AUTO_BOX_CONTROL_CMD_DATA 30
```

## *Carplay Phone Launch*

```
am broadcast -a cn.manstep.phonemirrorBox.AUTO_BOX_CONTROL_CMD_EVT  
-ei cn.manstep.phonemirrorBox.AUTO_BOX_CONTROL_CMD_DATA 31
```

## *Carplay Music Launch*

```
am broadcast -a cn.manstep.phonemirrorBox.AUTO_BOX_CONTROL_CMD_EVT  
-ei cn.manstep.phonemirrorBox.AUTO_BOX_CONTROL_CMD_DATA 32
```

# Commands : Spotify

## *Spotify Music NEXT*

```
am broadcast -a com.spotify.mobile.android.ui.widget.NEXT com.spotify.music
```

## *Spotify Music PREV*

```
am broadcast -a com.spotify.mobile.android.ui.widget.PREVIOUS com.spotify.music
```

## *Spotify Music PLAY*

```
am broadcast -a com.spotify.mobile.android.ui.widget.PLAY com.spotify.music
```

## *Tasker example*

Task name : Next Spotify Song

System "Send Intent"

Action: com.spotify.mobile.android.ui.widget.NEXT

Package: com.spotify.music

Target: Broadcast Receiver

# Version

|                      |  |
|----------------------|--|
| Date                 | 2020-06-19                                 |
| Author               | VincentZ4                                  |
| Dictionary Version   | 1.04                                       |
| HU & Android Version | PX6-9.0                                    |
| APP Version          | 2019111801T_1280x480_970                   |
| Framework Version    | 9 PQ2A 190305.002 eng.work2.20191104.14853 |
| MCU Version          | 615043bALS-CIC-HW7-200504 B1280            |
| CarType              | F1X(2011-2012) CIC 8.8/10.25inch           |
| 1.04                 | Added Spotify Commands API                 |
| 1.03                 | Changed " to " character                   |
| 1.02                 | Set Screen On                              |
| 1.01                 | Added Set of commands to serial port ttyS3 |
| 1.00                 | Added Carlinkit Carplay API                |