



**LIGHTNING**  
**XCU2030**  
**F1**

Release Notes

LIGHTNING XCU2030 F1 Release Notes

VERSION	FUNCTION	NOTE	CONFIG
<b>1.16.2.0</b> <b>(2020-10-16)</b>	<b>Auto High Beam Control</b>  <u>LED Status</u>  1. GREEN-STATIC Power on  2. RED-PULSE NO vehicle CAN detected  3. YELLOW-PULSE NO vehicle profile detected  4. YELLOW-STATIC Auxiliary light activated	Configurable with "Flash Config Sequence", see 'CONFIG' column. Control auxiliary light output with optional 12V input on "IN 1" (GREY) Disable auxiliary light control with optional 12V input on "IN 2" (BROWN) DRL output (MAX 3A) on "OUT 2" (GREEN)  <u>Initialization of XCU2030 after installation</u> 1. Level vehicle on flat ground 2. Turn on ignition 3. Make sure light switch is set to AUTO 4. Wait until headlight start sequence is complete 5. Activate high beam and hold 6. Wait until XCU2030 indicate initialization complete with 3 light flashes, takes about 5 seconds 7. Deactivate high beam 8. Installation complete  * = Automatic/Dynamic Not Tested # = DRL output support	<u>Enter Config Mode</u> 1. Deactivate high beam & wait min 5 sec 2. Flash 10 times (0.5s / flash) within 5 sec 3. Wait for auxiliary light to activate, 1 sec 4. Flash config command number, below  <u>Flash Commands (indication)</u> 1 -> <u>Enable/Disable</u> Auxiliary Light (2S / 1L) 2 -> <u>Enable/Disable</u> Auto Filter (2S / 1L) 3 -> <u>Enable/Disable</u> Auto Delay (2S / 1L) 4 -> <u>Enable/Disable</u> DRL output (2S / 1L) 9 -> Factory Reset (9S)  <u>Exit Config Mode</u> 5. Wait for auxiliary light to deactivate 6. Flash 10 times (0.5s / flash) within 5 sec 7. Auxiliary light flashes confirm indication 8. Complete
BRAND	MODEL	OPTION	CONNECTION
Audi	A4 2016- (B9) Platform: MLBevo	LED Headlights – Matrix (8G4)	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 GY
Audi	A4 2016- (B9) Platform: MLBevo	LED Headlights (8G0)	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/GY

LIGHTNING XCU2030 F1 Release Notes

Audi	A5 2017- Platform: MLBevo	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 GY
Audi	A6 2015-2018 (4G) Platform: MLB	LED Headlights - Matrix* (Highway Mode Not Supported)	HEADLIGHT CONNECTOR (LEFT) CAN-L: 14 OG/BN CAN-H: 13 OG/BK
Audi	A6 2019- Platform: MLBevo	LED Headlights* #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 GY
Audi	A6 2019- Platform: MLBevo	LED Headlights - Matrix #	HEADLIGHT CONNECTOR (LEFT) - 8P CAN-L: 2 OG/BN CAN-H: 1 GY
Audi	A7 2015-2017 (4G8) Platform: MLB	LED Headlights - Matrix (Highway Mode Not Supported)	HEADLIGHT CONNECTOR (LEFT) CAN-L: 14 OG/BN CAN-H: 13 OG/BK
Audi	A7 2018- Platform: MLBevo	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 GY
Audi	A8 2015-2017 (4H) Platform: MLB	LED Headlights - Matrix* (Highway Mode Not Supported)	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/BK
Audi	e-tron 55 2019- Platform: MLBevo	LED Headlights - Matrix #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 GY
Audi	Q3 2015-2018 Platform: MLBevo	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/BU

LIGHTNING XCU2030 F1 Release Notes

Audi	Q3 2019- Platform: MLBevo	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/BU
Audi	Q5 2018- Platform: MLBevo	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/GY
Audi	Q7 2017- Platform: MLBevo	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 WH/GY CAN-H: 1 GN/GY
Audi	Q8 2018- Platform: MLBevo	LED Headlights - Matrix* #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/GY
BMW	5 Series 2017- (G30 / G31 / G38) Platform: CLAR	LED Headlights - Adaptive	HEADLIGHT CONNECTOR (LEFT) CAN-L: 10 YE/BK CAN-H: 9 YE/BN
Cupra	Ateca 2019- Platform: MQB	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 GY CAN-H: 1 OG/BN
Ford	Edge 2019- Platform: CD3	LED Headlights – Dynamic* Halogen Headlights - Automatic* #	C192 (BK, 6PIN, NEAR FUSE BOX, ENGINE BAY) CAN-L: 5 GY/BU CAN-H: 2 GN/OG
Ford	Focus 2019- Platform: C2	LED Headlights – Dynamic* Halogen Headlights - Automatic* #	C192 (BK, 6PIN, NEAR FUSE BOX, ENGINE BAY) CAN-L: 5 GY/BU CAN-H: 2 GN/OG
Ford	Focus 2019- Platform: C2	LED Headlights – Dynamic Glare-Free #	C192 (BK, 6PIN, NEAR FUSE BOX, ENGINE BAY) CAN-L: 5 GY/BU CAN-H: 2 GN/OG

LIGHTNING XCU2030 F1 Release Notes

Ford	Galaxy 2017- (CD390E) Platform: CD4	Bi-Xenon Headlights* #	C192 (BK, 6PIN, NEAR FUSE BOX, ENGINE BAY) CAN-L: 5 GY/BU CAN-H: 2 GN/OG
Ford	Mondeo 2017- (CD391) Platform: CD4	LED Headlights – Dynamic #	C192 (BK, 6PIN, NEAR FUSE BOX, ENGINE BAY) CAN-L: 5 GY/BU CAN-H: 2 GN/OG
Ford	Ranger 2016- Platform: CD4	Bi-Xenon Headlights – Automatic* Halogen Headlights - Automatic* #	C1232A (PCM, NEAR FUSE BOX, ENGINE BAY) CAN-L: 11 WH (HS1 CAN-) CAN-H: 10 WH/BU (HS1 CAN+)
Ford	S-Max 2017- Platform: CD4	LED Headlights – Dynamic* Halogen Headlights - Automatic* #	C192 (BK, 6PIN, NEAR FUSE BOX, ENGINE BAY) CAN-L: 5 GY/BU CAN-H: 2 GN/OG
Ford	S-Max 2019- Platform: CD4	LED Headlights – Dynamic Glare-Free #	C192 (BK, 6PIN, NEAR FUSE BOX, ENGINE BAY) CAN-L: 5 GY/BU CAN-H: 2 GN/OG
KIA	Niro EV 2019- Platform: J	Xenon Headlights	EE01 (BK, 36PIN, UNDER LEFT HEADLIGHT) CAN-L: 5/23 GN CAN-H: 2/22 OG
Lexus	NX300h 2016- (AZ10) Platform: TNGA GA-C From prod Sep. 2017	Tri-LED Headlights – Adaptive (AHS)	HEADLIGHT CONNECTOR (LEFT) CAN-L: 21 WH CAN-H: 22 BK
Lexus	NX300h 2016- (AZ10) Platform: TNGA GA-C From prod Sep. 2017	Bi-LED Headlights – Automatic (AHB)* #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 23 RD CAN-H: 24 BK
Lexus	NX300h 2016- (AZ10) Platform: TNGA GA-C Before Sep. 2017 Prod.	Bi-LED Headlights – Automatic (AHB)*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 23 WH CAN-H: 24 BK

LIGHTNING XCU2030 F1 Release Notes

Lexus	RX450h 2016- (AL20) Platform: TNGA GA-C	Tri-LED Headlights – Adaptive (AHS)*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 21 WH CAN-H: 22 RD
Lexus	RX450h 2016- (AL20) Platform: TNGA GA-C	Tri-LED Headlights – Automatic (AHB)* #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 23 LG CAN-H: 24 BK
Mercedes-Benz	A-Class 2018- (W177) Platform: MFA2	LED Headlights – Dynamic (641, 642)* LED Headlights – Static (631, 632)* #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 1 GN CAN-H: 2 GN/WH
Mercedes-Benz	B-Class 2016- (W246) Platform: MFA	LED Headlights – Static (631, 632) #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 1 BU CAN-H: 2 BU/WH
Mercedes-Benz	C-Class 2017- (W205) Platform: MRA	LED Headlights – Dynamic (641, 642)* LED Headlights – Static (631, 632)*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 1 GN CAN-H: 2 GN/WH
Mercedes-Benz	E-Class 2013-2016 (W212 / S212) Platform: MFA	LED Headlights* #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 1 YE CAN-H: 2 YE/WH
Mercedes-Benz	E-Class 2017- (W213 / S213) Platform: MRA	LED Headlights – Dynamic (641, 642)	HEADLIGHT CONNECTOR (LEFT) CAN-L: 1 GN CAN-H: 2 GN/WH
Mercedes-Benz	G-Class 2018- (W463) Platform: MRA	LED Headlights – Dynamic (641, 642)* LED Headlights – Static (631, 632)*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 1 GN CAN-H: 2 GN/WH
Mercedes-Benz	GLC 2016- (X253) Platform: MRA	LED Headlights – Dynamic (641, 642)*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 1 GN CAN-H: 2 GN/WH

LIGHTNING XCU2030 F1 Release Notes

Mercedes-Benz	Sprinter 2018- (W907 / W910) Platform: MRA	LED Headlights – High Performance (LG7)*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 1 GN CAN-H: 2 GN/WH
Mercedes-Benz	V-Class 2015- (W447) Platform: MFA	LED Headlights* #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 1 PK CAN-H: 2 PK/WH
Mercedes-Benz	Vito 2015- (W447) Platform: MFA	LED Headlights* #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 1 PK CAN-H: 2 PK/WH
Nissan	QASHQAI 2017- (J11) Platform: RENAULT-NISSAN CMF-C/D	Bi-LED Headlights – Adaptive #	CT1 @ IPDM (WH, 24PIN, FUSE BOX, ENGINE BAY) CAN-L: 4 PK CAN-H: 6 BU
Nissan	X-TRAIL 2017- (T32) Platform: RENAULT-NISSAN CMF-C/D	Bi-LED Headlights – Adaptive #	CT1 @ IPDM (GY, 24PIN, FUSE BOX, ENGINE BAY) CAN-L: 4 PK CAN-H: 6 BU
Opel	Insignia B 2017- Platform: E2XX	LED Headlights – IntelliLux	X115 (BK, 40PIN, BESIDE LEFT HEADLIGHT) CAN-L: 13 WH CAN-H: 12 BU
Polestar	2 2021- Platform: CMA	LED Headlights - Matrix #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 1 YE/VT CAN-H: 2 BN/GY
Seat	Arona 2018- Platform: MQB-A0	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 WH/GN CAN-H: 1 WH/GY
Seat	Ateca 2019- Platform: MQB	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 GY CAN-H: 1 OG/BN

LIGHTNING XCU2030 F1 Release Notes

Seat	Leon Cupra 2016- Platform: MQB	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/GY
Seat	Tarraco 2019- Platform: MQB	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/BU
Skoda	Fabia 2018- Platform: MQB (PQ26)	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/RD
Skoda	Karoq 2018- Vehicle Platform: MQB	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/GY
Skoda	Kodiaq 2017- Platform: MQB	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/GY
Skoda	Octavia 2017- (Mk3) Platform: MQB	LED Headlights* #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/RD
Skoda	Superb 2018- Platform: MQB	Bi-Xenon Headlights – Dynamic Light Assist*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/RD
Toyota	Corolla 2019- Platform: TNGA GA-C	Multi-LED Headlights - Adaptiv (AHS)	HEADLIGHT CONNECTOR (LEFT) CAN-L: 21 BK CAN-H: 22 WH
Toyota	C-HR 2017- INC. HYBRID Platform: TNGA GA-C	LED Headlights #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 23 LB CAN-H: 24 BU



LIGHTNING XCU2030 F1 Release Notes

Toyota	Land Cruiser 150 2018- (GDJ150) Platform: TNGA GA-C	LED Headlights - Automatic* #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 23 LB CAN-H: 24 BU
Toyota	PRIUS PHV 2018- Platform: TNGA GA-C	Quad-LED Headlights – Adaptive*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 21 WH CAN-H: 22 LB
Toyota	RAV4 2019- Platform: TNGA GA-C	Projector-LED Headlights – Automatic* #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 23 WH CAN-H: 24 PK
Toyota	RAV4 Plug-in Hybrid 2020- Platform: TNGA GA-C	Projector-LED Headlights – Automatic (AHB) #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 23 WH CAN-H: 24 PK
Volkswagen	Arteon 2017- Platform: MQB	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/GY
Volkswagen	ID.3 2020- Platform: MEB	IQ Light Headlights #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/GN
Volkswagen	Golf 2016- (Mk7) NOT GTE Platform: MQB	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/GY
Volkswagen	Golf Sportsvan 2016- Platform: MQB	LED Headlights* #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/GY
Volkswagen	Golf 2020- Platform: MQB	LED Headlights (Without light control) 8IY, 8G0 #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/GY

LIGHTNING XCU2030 F1 Release Notes

Volkswagen	Passat 2015- (B8) Platform: MQB	LED Headlights	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/GY
Volkswagen	Passat Alltrack 2016- (B8) Platform: MQB	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/GY
Volkswagen	Passat GTE 2018- (B8) Platform: MQB	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/GY
Volkswagen	Polo 2016- (Mk6) Platform: MQB	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/WH
Volkswagen	Sharan 2016- Platform: PQ46	Xenon Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/GY
Volkswagen	Tiguan 2016 (AD1) Platform: MQB	LED Headlights #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/BU
Volkswagen	Tiguan 2017- (AD1) Platform: MQB	LED Headlights #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/BU
Volkswagen	Touareg 2018- Platform: MLB	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 GY
Volkswagen	Touareg 2018- Platform: MLB	LED Headlights - Matrix* #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 GY

LIGHTNING XCU2030 F1 Release Notes

Volkswagen	Touran 2016- Platform: MQB	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/GY
Volkswagen	T-Roc 2018- Platform: MQB	LED Headlights* #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG
Volvo Cars	S90 2018- (V541) Platform: SPA From prod. 2017w46	LED Headlights #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 1 YE/VT CAN-H: 2 BN/GY
Volvo Cars	V60 2019- (V432) Platform: SPA	LED Headlights #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 4 YE/VT CAN-H: 5 BN/GY
Volvo Cars	V60CC 2019- (V433) Platform: SPA	LED Headlights #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 4 YE/VT CAN-H: 5 BN/GY
Volvo Cars	V90 2018- (V542) Platform: SPA From prod. 2017w46	LED Headlights #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 1 YE/VT CAN-H: 2 BN/GY
Volvo Cars	V90CC 2018- (V543) Platform: SPA From prod. 2017w46	LED Headlights #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 1 YE/VT CAN-H: 2 BN/GY
Volvo Cars	XC40 2018- (V316) Platform: CMA	LED Headlights #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 1 YE/WH CAN-H: 2 GN/YE
Volvo Cars	XC60 2018- (V426) Platform: SPA	LED Headlights #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 1 YE/VT CAN-H: 2 BN/GY

LIGHTNING XCU2030 F1 Release Notes

Volvo Cars	XC90 2018- (V526) Platform: SPA From prod. 2017w46	LED Headlights #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 1 YE/VT CAN-H: 2 BN/GY
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VERSION	FUNCTION	NOTE	CONFIG
<b>1.15.2.0</b> <b>(2020-09-25)</b>	<b>Auto High Beam Control</b>  <u>LED Status</u>  1. GREEN-STATIC Power on  2. RED-PULSE NO vehicle CAN detected  3. YELLOW-PULSE NO vehicle profile detected  4. YELLOW-STATIC Auxiliary light activated	Configurable with "Flash Config Sequence", see 'CONFIG' column. Control auxiliary light output with optional 12V input on "IN 1" (GREY) Disable auxiliary light control with optional 12V input on "IN 2" (BROWN) DRL output (MAX 3A) on "OUT 2" (GREEN)  <u>Initialization of XCU2030 after installation</u> 1. Level vehicle on flat ground 2. Turn on ignition 3. Make sure light switch is set to AUTO 4. Wait until headlight start sequence is complete 5. Activate high beam and hold 6. Wait until XCU2030 indicate initialization complete with 3 light flashes, takes about 5 seconds 7. Deactivate high beam 8. Installation complete  * = Automatic/Dynamic Not Tested # = DRL output support	<u>Enter Config Mode</u> 1. Deactivate high beam & wait min 5 sec 2. Flash 10 times (0.5s / flash) within 5 sec 3. Wait for auxiliary light to activate, 1 sec 4. Flash config command number, below  <u>Flash Commands (indication)</u> 1 -> <u>Enable/Disable</u> Auxiliary Light (2S / 1L) 2 -> <u>Enable/Disable</u> Auto Filter (2S / 1L) 3 -> <u>Enable/Disable</u> Auto Delay (2S / 1L) 4 -> <u>Enable/Disable</u> DRL output (2S / 1L) 9 -> Factory Reset (9S)  <u>Exit Config Mode</u> 5. Wait for auxiliary light to deactivate 6. Flash 10 times (0.5s / flash) within 5 sec 7. Auxiliary light flashes confirm indication 8. Complete
BRAND	MODEL	OPTION	CONNECTION
Audi	A4 2016- (B9) Platform: MLBevo	LED Headlights – Matrix (8G4)	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 GY
Audi	A4 2016- (B9) Platform: MLBevo	LED Headlights (8G0)	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/GY

LIGHTNING XCU2030 F1 Release Notes

Audi	A5 2017- Platform: MLBevo	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 GY
Audi	A6 2015-2018 (4G) Platform: MLB	LED Headlights - Matrix* (Highway Mode Not Supported)	HEADLIGHT CONNECTOR (LEFT) CAN-L: 14 OG/BN CAN-H: 13 OG/BK
Audi	A6 2019- Platform: MLBevo	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 GY
Audi	A6 2019- Platform: MLBevo	LED Headlights - Matrix	HEADLIGHT CONNECTOR (LEFT) - 8P CAN-L: 2 OG/BN CAN-H: 1 GY
Audi	A7 2015-2017 (4G8) Platform: MLB	LED Headlights - Matrix (Highway Mode Not Supported)	HEADLIGHT CONNECTOR (LEFT) CAN-L: 14 OG/BN CAN-H: 13 OG/BK
Audi	A7 2018- Platform: MLBevo	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 GY
Audi	A8 2015-2017 (4H) Platform: MLB	LED Headlights - Matrix* (Highway Mode Not Supported)	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/BK
Audi	e-tron 55 2019- Platform: MLBevo	LED Headlights - Matrix	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 GY
Audi	Q3 2015-2018 Platform: MLBevo	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/BU

LIGHTNING XCU2030 F1 Release Notes

Audi	Q3 2019- Platform: MLBevo	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/BU
Audi	Q5 2018- Platform: MLBevo	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/GY
Audi	Q7 2017- Platform: MLBevo	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 WH/GY CAN-H: 1 GN/GY
Audi	Q8 2018- Platform: MLBevo	LED Headlights - Matrix*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/GY
BMW	5 Series 2017- (G30 / G31 / G38) Platform: CLAR	LED Headlights - Adaptive	HEADLIGHT CONNECTOR (LEFT) CAN-L: 10 YE/BK CAN-H: 9 YE/BN
Cupra	Ateca 2019- Platform: MQB	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 GY CAN-H: 1 OG/BN
Ford	Edge 2019- Platform: CD3	LED Headlights – Dynamic* Halogen Headlights - Automatic* #	C192 (BK, 6PIN, NEAR FUSE BOX, ENGINE BAY) CAN-L: 5 GY/BU CAN-H: 2 GN/OG
Ford	Focus 2019- Platform: C2	LED Headlights – Dynamic* Halogen Headlights - Automatic* #	C192 (BK, 6PIN, NEAR FUSE BOX, ENGINE BAY) CAN-L: 5 GY/BU CAN-H: 2 GN/OG
Ford	Focus 2019- Platform: C2	LED Headlights – Dynamic Glare-Free #	C192 (BK, 6PIN, NEAR FUSE BOX, ENGINE BAY) CAN-L: 5 GY/BU CAN-H: 2 GN/OG

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Ford	Galaxy 2017- (CD390E) Platform: CD4	Bi-Xenon Headlights* #	C192 (BK, 6PIN, NEAR FUSE BOX, ENGINE BAY) CAN-L: 5 GY/BU CAN-H: 2 GN/OG
Ford	Mondeo 2017- (CD391) Platform: CD4	LED Headlights – Dynamic #	C192 (BK, 6PIN, NEAR FUSE BOX, ENGINE BAY) CAN-L: 5 GY/BU CAN-H: 2 GN/OG
Ford	Ranger 2016- Platform: CD4	Bi-Xenon Headlights – Automatic* Halogen Headlights - Automatic* #	C1232A (PCM, NEAR FUSE BOX, ENGINE BAY) CAN-L: 11 WH (HS1 CAN-) CAN-H: 10 WH/BU (HS1 CAN+)
Ford	S-Max 2017- Platform: CD4	LED Headlights – Dynamic* Halogen Headlights - Automatic* #	C192 (BK, 6PIN, NEAR FUSE BOX, ENGINE BAY) CAN-L: 5 GY/BU CAN-H: 2 GN/OG
Ford	S-Max 2019- Platform: CD4	LED Headlights – Dynamic Glare-Free #	C192 (BK, 6PIN, NEAR FUSE BOX, ENGINE BAY) CAN-L: 5 GY/BU CAN-H: 2 GN/OG
Lexus	NX300h 2016- (AZ10) Platform: TNGA GA-C From prod Sep. 2017	Tri-LED Headlights – Adaptive (AHS)	HEADLIGHT CONNECTOR (LEFT) CAN-L: 21 WH CAN-H: 22 BK
Lexus	NX300h 2016- (AZ10) Platform: TNGA GA-C From prod Sep. 2017	Bi-LED Headlights – Automatic (AHB)* #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 23 RD CAN-H: 24 BK
Lexus	NX300h 2016- (AZ10) Platform: TNGA GA-C Before Sep. 2017 Prod.	Bi-LED Headlights – Automatic (AHB)*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 23 WH CAN-H: 24 BK
Lexus	RX450h 2016- (AL20) Platform: TNGA GA-C	Tri-LED Headlights – Adaptive (AHS)*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 21 WH CAN-H: 22 RD



LIGHTNING XCU2030 F1 Release Notes

Lexus	RX450h 2016- (AL20) Platform: TNGA GA-C	Tri-LED Headlights – Automatic (AHB)* #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 23 LG CAN-H: 24 BK
Mercedes-Benz	A-Class 2018- (W177) Platform: MFA2	LED Headlights – Dynamic (641, 642)* LED Headlights – Static (631, 632)* #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 1 GN CAN-H: 2 GN/WH
Mercedes-Benz	B-Class 2016- (W246) Platform: MFA	LED Headlights – Static (631, 632) #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 1 BU CAN-H: 2 BU/WH
Mercedes-Benz	C-Class 2017- (W205) Platform: MRA	LED Headlights – Dynamic (641, 642)* LED Headlights – Static (631, 632)*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 1 GN CAN-H: 2 GN/WH
Mercedes-Benz	E-Class 2013-2016 (W212 / S212) Platform: MFA	LED Headlights* #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 1 YE CAN-H: 2 YE/WH
Mercedes-Benz	E-Class 2017- (W213 / S213) Platform: MRA	LED Headlights – Dynamic (641, 642)	HEADLIGHT CONNECTOR (LEFT) CAN-L: 1 GN CAN-H: 2 GN/WH
Mercedes-Benz	G-Class 2018- (W463) Platform: MRA	LED Headlights – Dynamic (641, 642)* LED Headlights – Static (631, 632)*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 1 GN CAN-H: 2 GN/WH
Mercedes-Benz	GLC 2016- (X253) Platform: MRA	LED Headlights – Dynamic (641, 642)*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 1 GN CAN-H: 2 GN/WH
Mercedes-Benz	Sprinter 2018- (W907 / W910) Platform: MRA	LED Headlights – High Performance (LG7)*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 1 GN CAN-H: 2 GN/WH

LIGHTNING XCU2030 F1 Release Notes

Mercedes-Benz	V-Class 2015- (W447) Platform: MFA	LED Headlights* #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 1 PK CAN-H: 2 PK/WH
Mercedes-Benz	Vito 2015- (W447) Platform: MFA	LED Headlights* #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 1 PK CAN-H: 2 PK/WH
Nissan	QASHQAI 2017- (J11) Platform: RENAULT-NISSAN CMF-C/D	Bi-LED Headlights – Adaptive #	CT1 @ IPDM (WH, 24PIN, FUSE BOX, ENGINE BAY) CAN-L: 4 PK CAN-H: 6 BU
Nissan	X-TRAIL 2017- (T32) Platform: RENAULT-NISSAN CMF-C/D	Bi-LED Headlights – Adaptive #	CT1 @ IPDM (GY, 24PIN, FUSE BOX, ENGINE BAY) CAN-L: 4 PK CAN-H: 6 BU
Opel	Insignia B 2017- Platform: E2XX	LED Headlights – IntelliLux	X115 (BK, 40PIN, BESIDE LEFT HEADLIGHT) CAN-L: 13 WH CAN-H: 12 BU
Seat	Arona 2018- Platform: MQB-A0	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 WH/GN CAN-H: 1 WH/GY
Seat	Ateca 2019- Platform: MQB	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 GY CAN-H: 1 OG/BN
Seat	Leon Cupra 2016- Platform: MQB	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/GY
Seat	Tarraco 2019- Platform: MQB	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/BU

LIGHTNING XCU2030 F1 Release Notes

Skoda	Fabia 2018- Platform: MQB (PQ26)	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/RD
Skoda	Karoq 2018- Vehicle Platform: MQB	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/GY
Skoda	Kodiaq 2017- Platform: MQB	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/GY
Skoda	Octavia 2017- (Mk3) Platform: MQB	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/RD
Skoda	Superb 2018- Platform: MQB	Bi-Xenon Headlights – Dynamic Light Assist*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/RD
Toyota	Corolla 2019- Platform: TNGA GA-C	Multi-LED Headlights - Adaptiv (AHS)	HEADLIGHT CONNECTOR (LEFT) CAN-L: 21 BK CAN-H: 22 WH
Toyota	C-HR 2017- INC. HYBRID Platform: TNGA GA-C	LED Headlights #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 23 LB CAN-H: 24 BU
Toyota	Land Cruiser 150 2018- (GDJ150) Platform: TNGA GA-C	LED Headlights - Automatic* #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 23 LB CAN-H: 24 BU
Toyota	PRIUS PHV 2018- Platform: TNGA GA-C	Quad-LED Headlights – Adaptive*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 21 WH CAN-H: 22 LB

LIGHTNING XCU2030 F1 Release Notes

Toyota	RAV4 2019- Platform: TNGA GA-C	Projector-LED Headlights – Automatic* #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 23 WH CAN-H: 24 PK
Toyota	RAV4 Plug-in Hybrid 2020- Platform: TNGA GA-C	Projector-LED Headlights – Automatic (AHB) #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 23 WH CAN-H: 24 PK
Volkswagen	Arteon 2017- Platform: MQB	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/GY
Volkswagen	Golf 2016- (Mk7) NOT GTE Platform: MQB	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/GY
Volkswagen	Golf Sportsvan 2016- Platform: MQB	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/GY
Volkswagen	Golf 2020- Platform: MQB	LED Headlights (Without light control) 8IY, 8G0	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/GY
Volkswagen	Passat 2015- (B8) Platform: MQB	LED Headlights	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/GY
Volkswagen	Passat Alltrack 2016- (B8) Platform: MQB	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/GY
Volkswagen	Passat GTE 2018- (B8) Platform: MQB	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/GY

LIGHTNING XCU2030 F1 Release Notes

Volkswagen	Polo 2016- (Mk6) Platform: MQB	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/WH
Volkswagen	Sharan 2016- Platform: PQ46	Xenon Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/GY
Volkswagen	Tiguan 2016 (AD1) Platform: MQB	LED Headlights	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/BU
Volkswagen	Tiguan 2017- (AD1) Platform: MQB	LED Headlights	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/BU
Volkswagen	Touareg 2018- Platform: MLB	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 GY
Volkswagen	Touareg 2018- Platform: MLB	LED Headlights - Matrix*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 GY
Volkswagen	Touran 2016- Platform: MQB	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG/GY
Volkswagen	T-Roc 2018- Platform: MQB	LED Headlights*	HEADLIGHT CONNECTOR (LEFT) CAN-L: 2 OG/BN CAN-H: 1 OG
Volvo Cars	S90 2018- (V541) Platform: SPA From prod. 2017w46	LED Headlights #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 1 YE/VT CAN-H: 2 BN/GY

LIGHTNING XCU2030 F1 Release Notes

Volvo Cars	V60 2019- (V432) Platform: SPA	LED Headlights* #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 4 YE/VT CAN-H: 5 BN/GY
Volvo Cars	V60CC 2019- (V433) Platform: SPA	LED Headlights* #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 4 YE/VT CAN-H: 5 BN/GY
Volvo Cars	V90 2018- (V542) Platform: SPA From prod. 2017w46	LED Headlights #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 1 YE/VT CAN-H: 2 BN/GY
Volvo Cars	V90CC 2018- (V543) Platform: SPA From prod. 2017w46	LED Headlights #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 1 YE/VT CAN-H: 2 BN/GY
Volvo Cars	XC40 2018- (V316) Platform: CMA	LED Headlights #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 1 YE/WH CAN-H: 2 GN/YE
Volvo Cars	XC60 2018- (V426) Platform: SPA	LED Headlights #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 1 YE/VT CAN-H: 2 BN/GY
Volvo Cars	XC90 2018- (V526) Platform: SPA From prod. 2017w46	LED Headlights #	HEADLIGHT CONNECTOR (LEFT) CAN-L: 1 YE/VT CAN-H: 2 BN/GY

LIGHTNING XCU2030 F1 Release Notes

**IEC color abbreviations**

BK		Black
BN		Brown
RD		Red
OG		Orange
YE		Yellow
GN		Green
LG		Light Green
BU		Blue
LB		Light Blue
VT		Violet
GY		Grey
WH		White
PK		Pink
TQ		Turquoise