idatalink BLADE-AL Network Programmable Data Immobilizer Integration Cartridge Installation Guide

Automotive Data Solutions Inc.
HK10
INSTALL GUIDE
COM-BLADE-AL(DL)-HK10-EN
AVAILABLE FOR: COM-BLADE AL
Rev. Date: May 28, 2021
Doc. No.: ##75784##
PATENT NO. US 8,856,780 CA 2759622
PLEASE VISIT **WWW.IDATALINK.COM** FOR COMPLETE PRODUCT DETAILS

HYUNDAI

NOTICE: The manufacturer will accept no responsibility for any electrical damage resulting from improper installation of this product, be that either damage to the vehicle itself or to the installed device. This device must be installed by a certified technician. This guide has been written for properly trained technicians; a certain level of skill & knowledge is therefore assumed. Please review the Installation Guide carefully before beginning any work.

TERMS OF USE: automotive data Solutions inc. ("ADS") products are strictly intended for installation by Certifi ed Technicians who are employed by a registered business specialized in the installation of automotive aftermarket

electronics products. Prior to beginning installation of an adS product in a vehicle, it is the Certifi ed Technician's responsibility to review the most current Product Guide, install Guide, and vehicle-specifi c notes available in Weblink®. ADS is not responsible for any damages whatsoever, including but not limited to any consequential damages, incidental damages, damages for loss of time, loss of earnings, loss of profi t, commercial loss, loss of economic opportunity, and the like that may or may not have resulted from the use, misuse, improper installation or operation of its products. Purchasers sole contractual remedy is refund of the purchase price of the adS product(s). adS reserves itself the right to suspend any Weblink® account without notice and decline to offer technical support to non-Certifi ed Technicians, non-compliant Certifi ed Technicians or end users.

Contents [**hide**]

INSTALL TYPE SELECTION

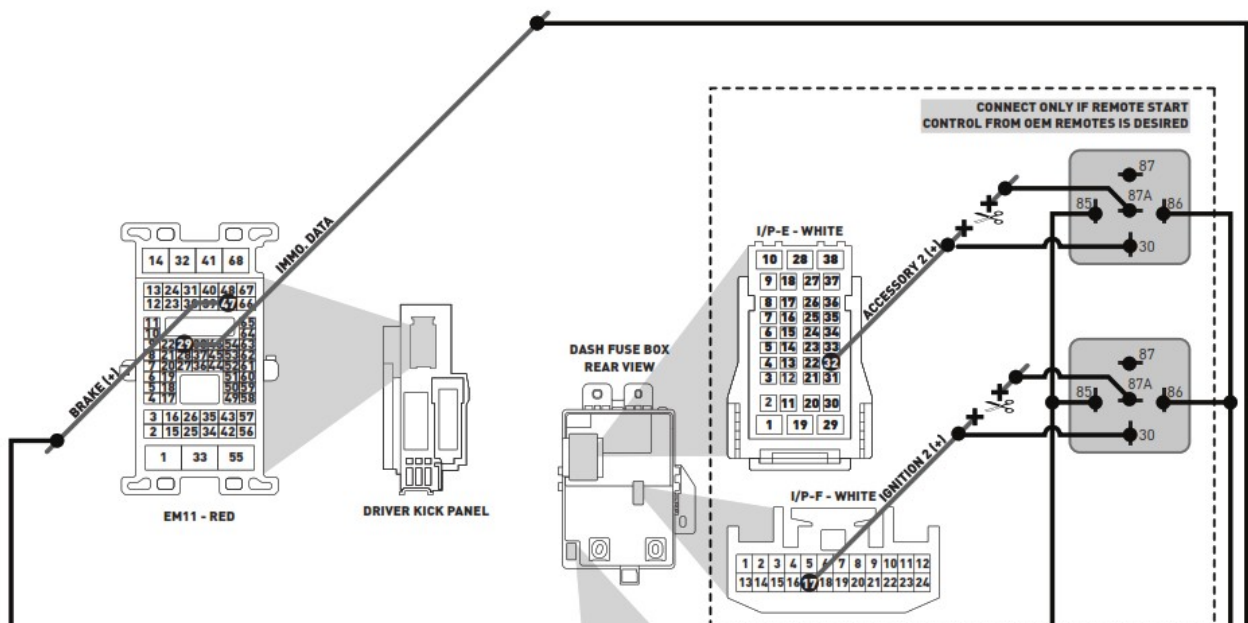| MAKE | MODEL | YEAR | INSTALL TYPE | FEATURES |||||||||||||||||
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | DATA IMMOBILIZER BYPASS | ARM OEM ALARM | DISARM OEM ALARM | A/M ALARM CTRL FROM OEM REMOTES | A/M RS CTRL FROM OEM REMOTES | PRIORITY UNLOCK | DOOR LOCK | DOOR UNLOCK | TRUNK/HATCH RELEASE | DOOR STATUS OUTPUT | TRUNK STATUS OUTPUT | HOOD STATUS OUTPUT* | E-BRAKE OUTPUT | RAP SHUTDOWN CTRL | MUX PARKING LIGHT CTRL |
| HYUNDAI | Kona STD key AT | 18-22 | 1 | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |

*Available only if vehicle is equipped with factory hood switch.
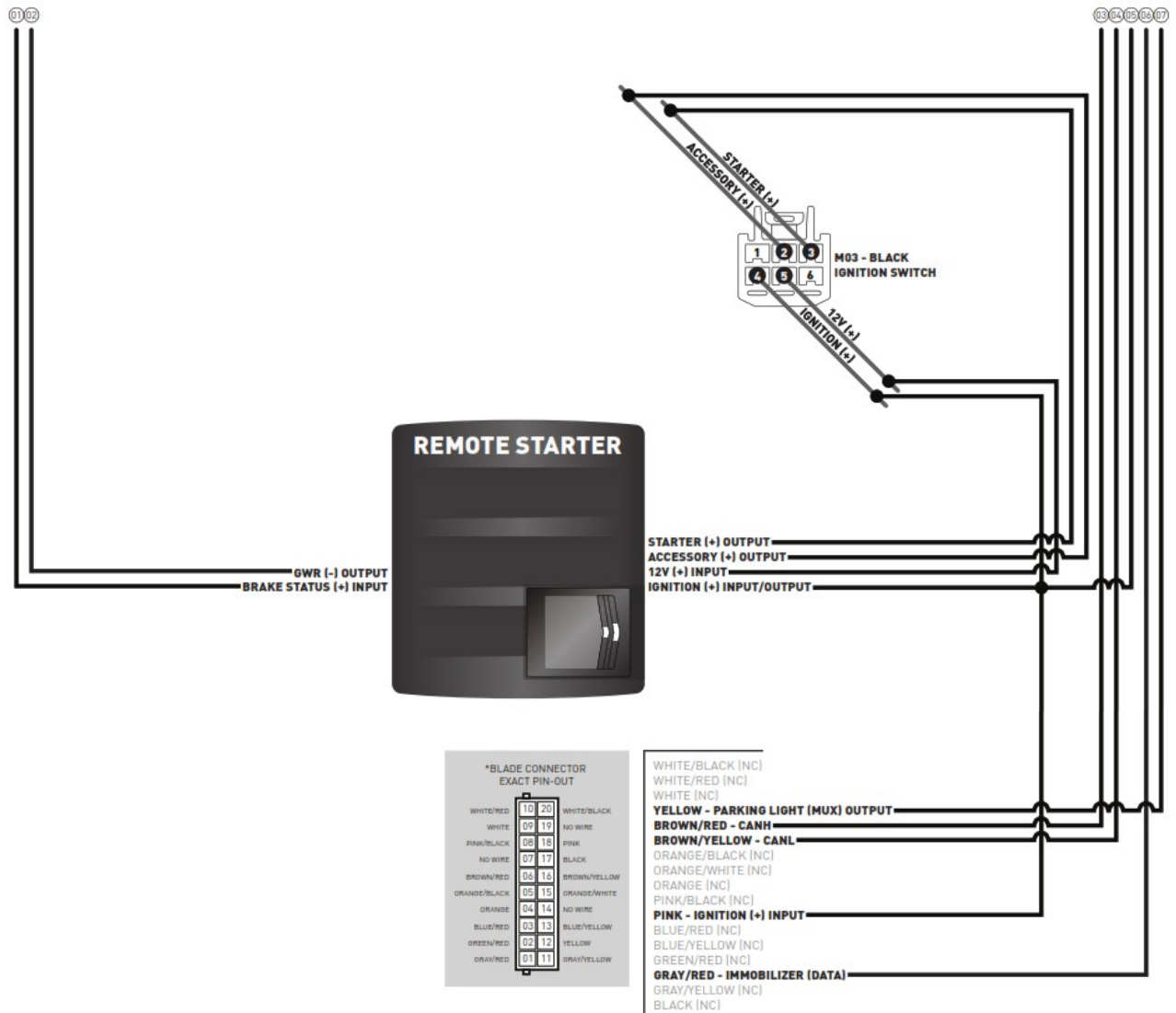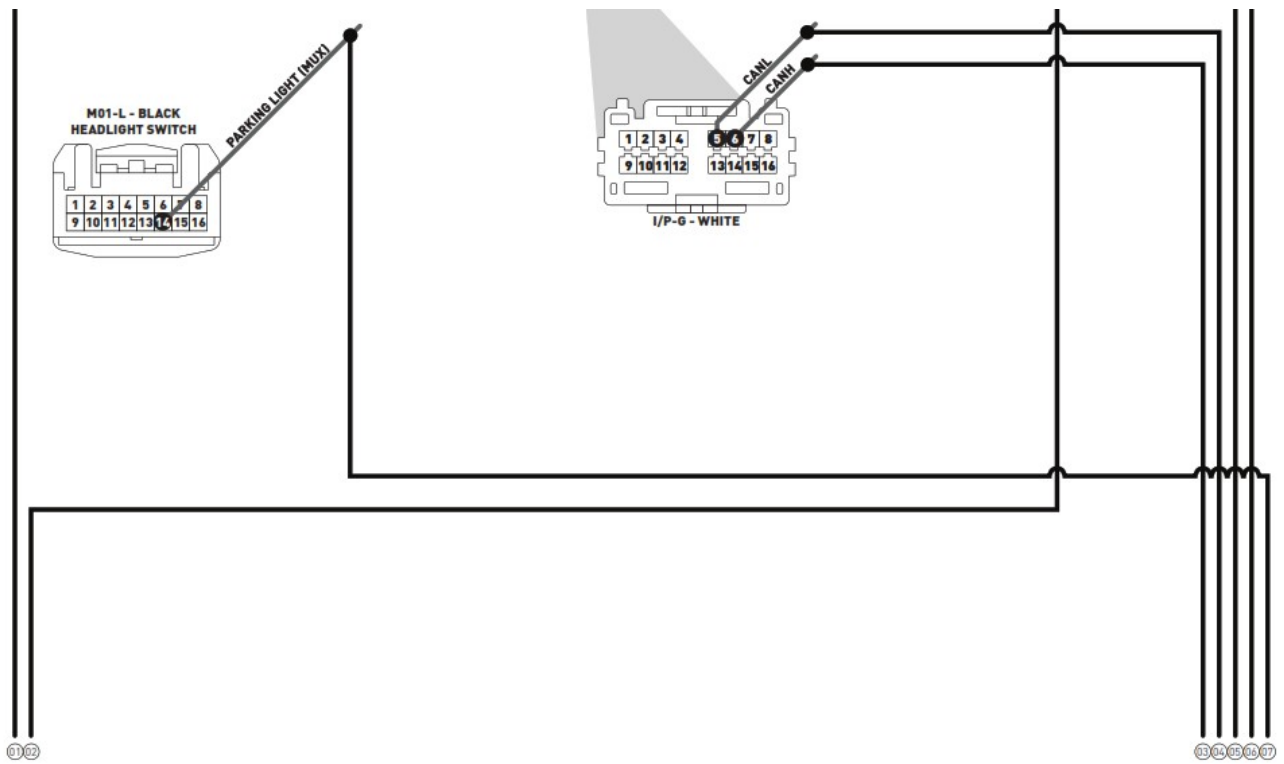
TYPE 1 – WIRE CROSS REFERENCE CHART

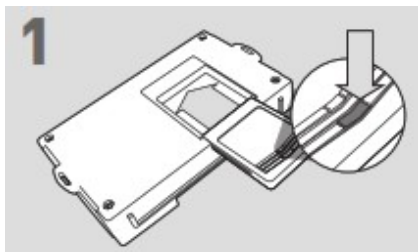| MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
HYUNDAI	Kona STD key AT	18-21	12V	~	Black	06 pin	05	Red	(+)	Ignition switch	~
			Accessory	~	Black	06 pin	02	Black	(+)	Ignition switch	~
			Starter	~	Black	06 pin	03	White	(+)	Ignition switch	~
			Ignition	~	Black	06 pin	04	Pink	(+)	Ignition switch	~
			Brake	EM11	Red	68 pin	47	Green	(+)	Driver kick panel	~
			CanH	~	White	16 pin	06	White	(DATA)	Dash fuse box, rear view	~
			CanL	~	White	16 pin	05	Black	(DATA)	Dash fuse box, rear view	~
			Immoblizer Data*	EM11	Red	68 pin	29	Brown/Orange	(DATA)	Driver kick panel	~
			Parking Light	~	Black	16 pin	14	Blue	(MUX)	Steering column	~
			Ignition 2**	~	White	24 pin	17	Pink	(+)	Dash fusebox, rear view	~
			Accessory 2**	~	White	38 pin	32	Orange	(+)	Dash fusebox, rear view	~
			Tach	~	~	~	~	~	(AC)	Injector	~
	Kona STD key AT	22	12V	~	Black	06 pin	05	Red	(+)	Ignition switch	~
			Accessory	~	Black	06 pin	02	Black	(+)	Ignition switch	~
			Starter	~	Black	06 pin	03	White	(+)	Ignition switch	~
			Ignition	~	Black	06 pin	04	Pink	(+)	Ignition switch	~
			Brake	EM11	Red	68 pin	47	Green	(+)	Driver kick panel	~
			CanH	~	White	16 pin	06	Red	(DATA)	Dash fuse box, rear view	~
			CanL	~	White	16 pin	05	Blue	(DATA)	Dash fuse box, rear view	~
			Immoblizer Data*	EM11	Red	68 pin	29	Brown/Orange	(DATA)	Driver kick panel	~
			Parking Light	~	Black	16 pin	14	Blue	(MUX)	Steering column	~
			Ignition 2**	~	White	24 pin	17	Pink	(+)	Dash fusebox, rear view	~
			Accessory 2**	~	White	38 pin	32	Orange	(+)	Dash fusebox, rear view	~
			Tach	~	~	~	~	~	(AC)	Injector	~

*(U.S. vehicles) connect only if vehicle is equipped with immobilizer.
**Optional connection

TYPE 1 – WIRING DIAGRAM

M01-L - BLACK
HEADLIGHT SWITCH

PARKING LIGHT (MUX)

1	2	3	4	5	6	7	8
9	10	11	12	13	**14**	15	16

CANL
CANH

1	2	3	4		**5**	**6**	7	8
9	10	11	12		13	14	15	16

I/P-G - WHITE

01 02

03 04 05 06 07

01 02

03 04 05 06 07

ACCESSORY (+)
STARTER (+)

12V (+)
IGNITION (+)

1	**2**	**3**
4	**5**	**6**

M03 - BLACK
IGNITION SWITCH

REMOTE STARTER

GWR (−) OUTPUT
BRAKE STATUS (+) INPUT

STARTER (+) OUTPUT
ACCESSORY (+) OUTPUT
12V (+) INPUT
IGNITION (+) INPUT/OUTPUT

*BLADE CONNECTOR
EXACT PIN-OUT

WHITE/RED	10	20	WHITE/BLACK
WHITE	09	19	NO WIRE
PINK/BLACK	08	18	PINK
NO WIRE	07	17	BLACK
BROWN/RED	06	16	BROWN/YELLOW
ORANGE/BLACK	05	15	ORANGE/WHITE
ORANGE	04	14	NO WIRE
BLUE/RED	03	13	BLUE/YELLOW
GREEN/RED	02	12	YELLOW
GRAY/RED	01	11	GRAY/YELLOW

WHITE/BLACK (NC)
WHITE/RED (NC)
WHITE (NC)
YELLOW - PARKING LIGHT (MUX) OUTPUT
BROWN/RED - CANH
BROWN/YELLOW - CANL
ORANGE/BLACK (NC)
ORANGE/WHITE (NC)
ORANGE (NC)
PINK/BLACK (NC)
PINK - IGNITION (+) INPUT
BLUE/RED (NC)
BLUE/YELLOW (NC)
GREEN/RED (NC)
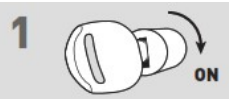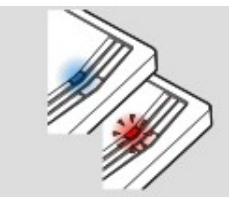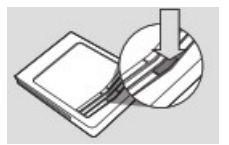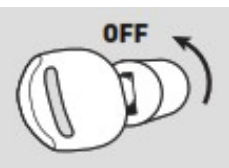**GRAY/RED - IMMOBILIZER (DATA)**
GRAY/YELLOW (NC)
BLACK (NC)

CARTRIDGE INSTALLATION

1. Slide cartridge into unit. Notice button under LED.

2. Ready for Module Programming Procedure.

MODULE PROGRAMMING PROCEDURE

| 1	Turn key to ON position.
2	Wait, if LED turns solid BLUE, proceed with step 4. If LED fl ashes RED three times [3x], proceed with step 3.
3	The vehicle's immobilizer is NOT detected: For USDM vehicles without an immobilizer, press and release programming button and proceed with step 4. For CDM and USDM vehicles with an immobilizer, verify every wire connections and repeat the module programming procedure.
4	Turn key to OFF position.
5	Module Programming Procedure completed.

IDENTIFY VEHICLE YEAR

1. Locate the Vehicle Identifi cation Number (VIN), identify the 10th character then match it to its corresponding year.
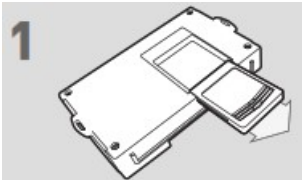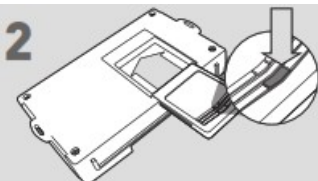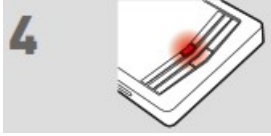

A	1980	L	1990	Y	2000	A	2010	L	2020
B	1981	M	1991	1	2001	B	2011	M	2021
C	1982	N	1992	2	2002	C	2012	N	2022
D	1983	P	1993	3	2003	D	2013	P	2023
E	1984	R	1994	4	2004	E	2014	R	2024
F	1985	S	1995	5	2005	F	2015	S	2025
G	1986	T	1996	6	2006	G	2016	T	2026
H	1987	V	1997	7	2007	H	2017	V	2027
J	1988	W	1998	8	2008	J	2018	W	2028
K	1989	X	1999	9	2009	K	2019	X	2029

MODULE DIAGNOSTICS

DIaGnoStIcS

	IeD StatUS	DUrInG ProGraMMInG	DUrInG reMote Start	WItH IGnItIon off
	Flashing RED	Missing/wrong information from fi rmware or vehicle	Incorrectly programmed	Incorrectly programmed or connected
	Solid RED	Waiting for more vehicle information	Incorrectly programmed	Not programmed waiting for more vehicle information
	Flashing BLUE	Additional steps required to complete programming	Correctly programmed and operational	False ground when running status from remote starter
	Solid BLUE then OFF	Correctly programmed	Reset in progress	Reset in progress
	OFF	No activity or already programmed	Invalid ground when running status from remote starter	At rest and ready for a remote start sequence

FACTORY RESET PROCEDURE

|	
1	DISCONNECT cartridge from remote starter.
2	PRESS AND HOLD programming button while re-connecting cartridge to remote starter.
3	LED will fl ash red. Immediately RELEASE programming button.
4	LED will turn solid red for 2 seconds. RESET COMPLETED.
5	RECONNECT all connectors. Repeat programming procedure.

! Failure to follow procedure may result with a DTC or a
CHECK ENGINE error message.

Documents / Resources
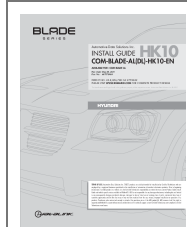
BLADE SERIES INSTALL GUIDE HK10 COM-BLADE-AL(DL)-HK10-EN HYUNDAI	**idatalink BLADE-AL Network Programmable Data Immobilizer Integration Cartridge** [pdf] Installation Guide BLADE-AL, Network Programmable Data Immobilizer Integration Cartridge

References

- ⓘ **iDatalink - Home**