

Automotive Data Solutions Inc.

INSTALL GUIDE ADS-AL(DL)-VO-EN

AVAILABLE FOR: ADS-AL CA

Rev. Date: March 04, 2016

Doc. No.: ##27557##

U.S. PATENT NO. 8,856,780

PLEASE VISIT **WWW.IDATALINK.COM** FOR COMPLETE PRODUCT DETAILS

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VOLVO

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.

INSTALL TYPE SELECTION

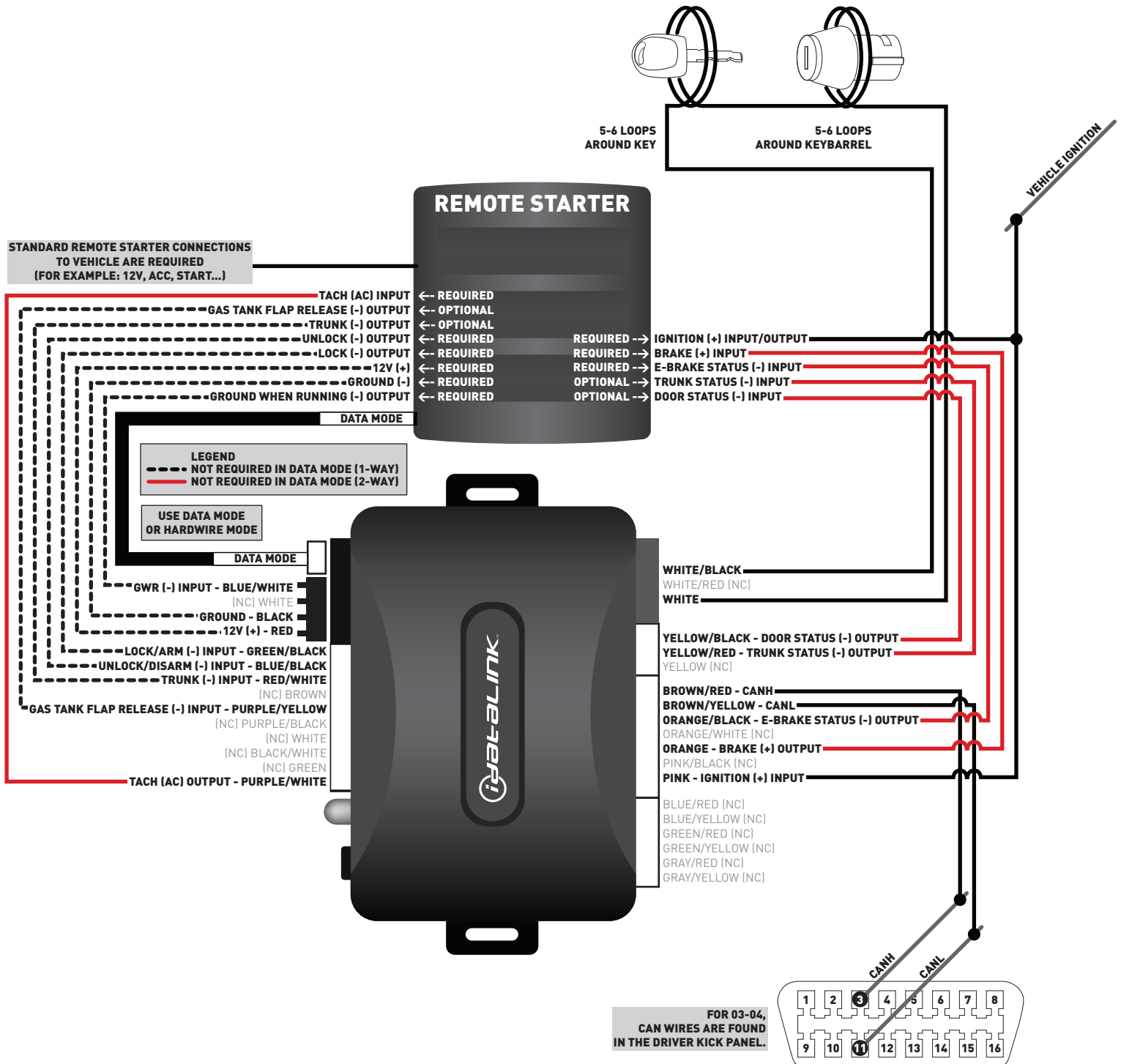
MAKE	MODEL	YEAR	INSTALL TYPE	FEATURES											
				ARM OEM ALARM	DISARM OEM ALARM	DOOR LOCK	DOOR UNLOCK	TRUNK/HATCH RELEASE	GAS TANK FLAP RELEASE	DOOR STATUS OUTPUT	TRUNK STATUS OUTPUT	HOOD STATUS OUTPUT*	BRAKE PEDAL STATUS OUTPUT	E-BRAKE OUTPUT	TACHOMETER OUTPUT
VOLVO	C30	07-11	2		•	•	•	•	•		•	•	•	•	•
	C70	06-11	2		•	•	•	•	•		•	•	•	•	•
	S40	05-11	2		•	•	•	•	•		•	•	•	•	•
	S60	03-10	1	•	•	•	•	•	•		•	•	•	•	•
	S80	04-06	1	•	•	•	•	•	•	•		•	•	•	•
	V50	05-11	2		•	•	•	•	•		•	•	•	•	•
	V70 regular key	04-08	1	•	•	•	•	•	•	•		•	•	•	•
	XC70 regular key	04-08	1	•	•	•	•	•	•	•		•	•	•	•
	XC90	03-11	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
VOLVO	S60	03-10	CanH	~	~	16 pin	3	White	[DATA]	OBDII	~
			CanL	~	~	16 pin	11	Green	[DATA]	OBDII	~
	S80	04-06	CanH	~	~	16 pin	3	White	[DATA]	OBDII	~
			CanL	~	~	16 pin	11	Green	[DATA]	OBDII	~
	V70	04-08	CanH	~	~	16 pin	3	White	[DATA]	OBDII	~
			CanL	~	~	16 pin	11	Green	[DATA]	OBDII	~
	XC70	04-08	CanH	~	~	16 pin	3	White	[DATA]	OBDII	~
			CanL	~	~	16 pin	11	Green	[DATA]	OBDII	~
	XC90	03-11	CanH	~	~	16 pin	3	White	[DATA]	OBDII	~
			CanL	~	~	16 pin	11	Green	[DATA]	OBDII	~

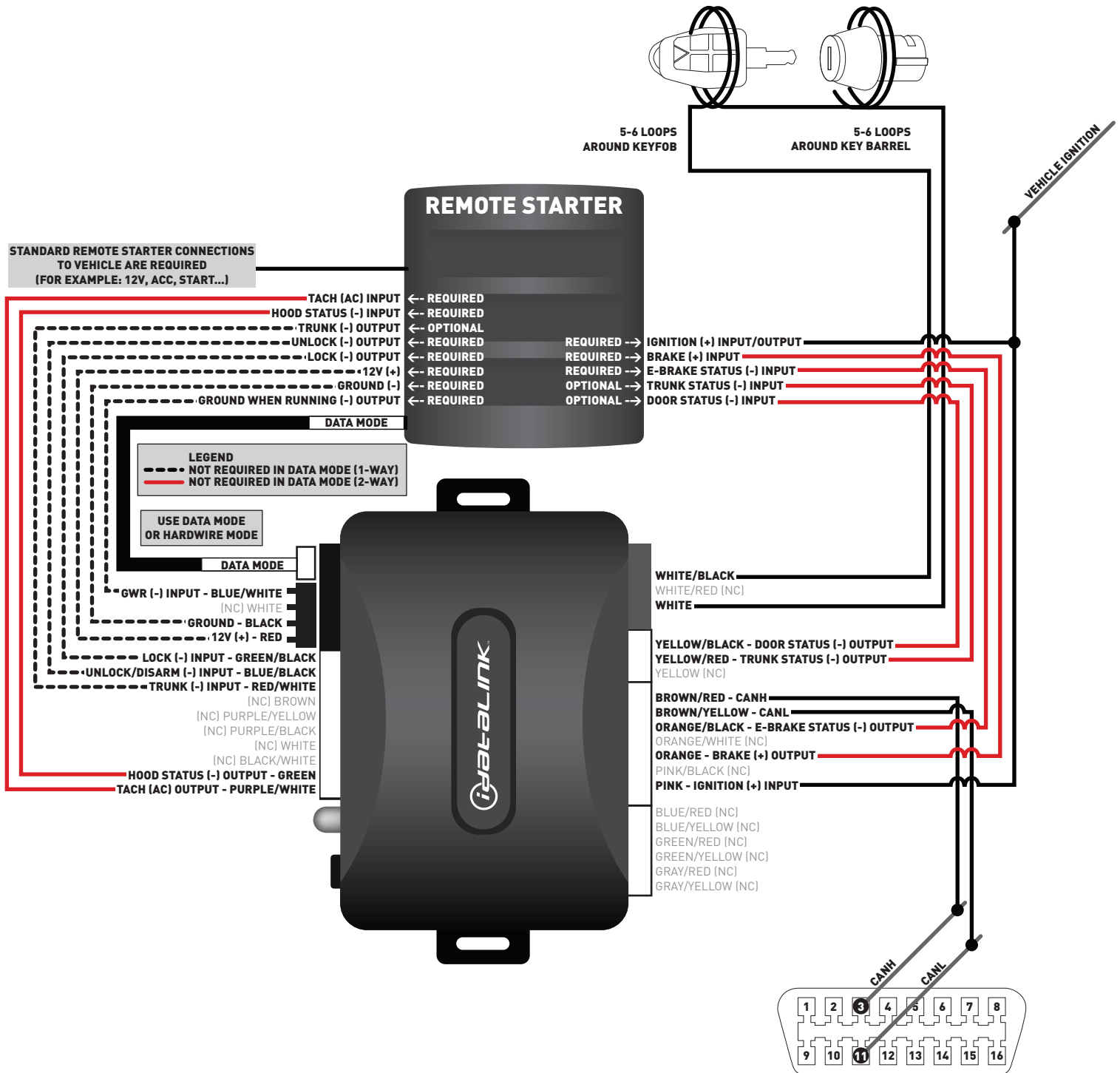
TYPE 1 - WIRING DIAGRAM



TYPE 2 - WIRE CROSS REFERENCE CHART

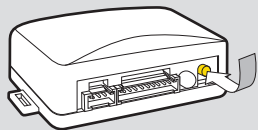
MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
VOLVO	C30	07-11	CanH	~	~	16 pin	3	Gray/Red	(DATA)	OBDII	~
			CanL	~	~	16 pin	11	Blue/Red	(DATA)	OBDII	~
	C70	06-11	CanH	~	~	16 pin	3	Gray/Red	(DATA)	OBDII	~
			CanL	~	~	16 pin	11	Blue/Red	(DATA)	OBDII	~
	S40	05-11	CanH	~	~	16 pin	3	Gray/Red	(DATA)	OBDII	~
			CanL	~	~	16 pin	11	Blue/Red	(DATA)	OBDII	~
	V50	04-11	CanH	~	~	16 pin	3	Gray/Red	(DATA)	OBDII	~
			CanL	~	~	16 pin	11	Blue/Red	(DATA)	OBDII	~

TYPE 2 - WIRING DIAGRAM



INSTALLATION MODE SELECTION

1



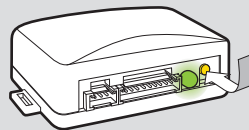
Press and release programming button to select installation mode.



LED flashes (1X) once = DATA MODE

LED flashes (2X) twice = STANDARD HARDWARE MODE

2



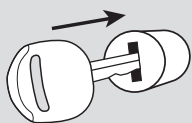
Press and hold programming button until LED turns solid GREEN to register selection.



After registration, follow Factory Reset Procedure to change installation mode and restart this procedure.

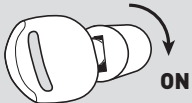
MODULE PROGRAMMING PROCEDURE

1



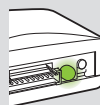
Insert key into ignition.

2



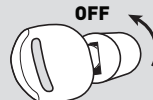
Turn key to ON position.

3



Wait, LED will turn solid GREEN for **2 seconds**.

4



Turn key to OFF position.

5

Module Programming Procedure completed.

IDENTIFY VEHICLE YEAR

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



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

MODULE DIAGNOSTICS

LED STATUS	DIAGNOSTICS		
	DURING PROGRAMMING	DURING REMOTE START	WITH IGNITION OFF
Flashing RED	Missing/wrong information from firmware 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 GREEN	Additional steps required to complete programming	Correctly programmed and operational	False ground when running status from remote starter
Solid GREEN 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

- DISCONNECT** all connectors from module **EXCEPT** the black 4-PIN standard or optional data connector.
- DISCONNECT** black 4-PIN standard or optional data connector.
- PRESS AND HOLD** programming button while connecting either 4-PIN standard or optional data connector.
- When LED flashes red, **RELEASE** programming button.

- LED will turn solid red for 2 seconds.
RESET COMPLETED.
- RECONNECT** all connectors.
- Repeat programming procedure.

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