MAKE	MODEL	YEAR	INSTALL	PTS	LIGHTS	STARTER	DCM	I/O CHANGES
DL-TL7 Toyota	Corolla PTS MT	2019-22	Type 3	Yes	**Park / Auto** Type 1	v1 - clutch	No	**Green White/Blue** n/a

This installation requires **BLADE-AL(DL)-TL7** firmware, flash module and update controller before beginning the installation.

Install Type 3: Main Body ECU (driver side kick panel), steering lock connector, PTS and clutch switch connections are required.

> **Page. 2:** Version 1 harness, **yellow** starter wire connect to vehicle clutch wire, pin #2 at clutch switch connector, **lt. green.**
> **Page. 3:** Version 2 harness, insert provided **green**/**white** starter/parking light wire into CN1 connector (pos. #2), connect to clutch wire, **lt. green,** pin #2 at clutch switch connector, harness **white**/**red** & **white**/**black** (no connection).
> **CM7:** Configure jumper 3 for **STARTER**
> **CMX:** Configure HCP #1 (Parking Lights) for **2ND START** (setting [2])
> **CM9 CONTROLLERS NOT COMPATIBLE WITH M/T APPLICATIONS**

🚫 CM9

Lights: Parking light and auto-light control are handled using the pre-terminated **green**/**white** wire bundled with the BLADE connector. Remove the (-) pk light wire from the controller's gray I/O connector and replace with the one specified, for status and diagnostic reporting. Connect to the headlight switch connector [B] as illustrated.

Locks: This installation type requires additional connections to the vehicle door locks to ensure proper synchronization with the OEM remotes. ***The 6-pin lock connector is required for correct operation.*** Connect to the control module lock output port.

Blue/Yellow (PTS): The PTS wire (blue/yellow) connection is required (required 3x 1A diodes), connect as illustrated.

TAKEOVER NOT SUPPORTED: THE VEHICLE WILL SHUT DOWN UPON OPENING DRIVER'S DOOR

FTI-TLP2: Installation and Configuration Notes

A **CONNECTIONS REQUIRED**

B **CONNECTIONS REQUIRED**

C **CONNECTIONS REQUIRED**

D **CONNECTION REQUIRED**

- FT-DAS Required for manual transmission.
- BOTH Red & Red/White MUST be connected with high current application.

Jumper Setting

Parking Light		(+)Door Trigger In
Accessory		(−)Door Trigger In (Default)
Ignition (Default)		
Trunk		Starter
Starter		Ignition
Parking Light (Default)		Accessory (Default)

CM7000/7200 — Do not cut for M/T

CMX

CMX High Current Programmable (+) Output Channels

HCP #1 - Parking Light
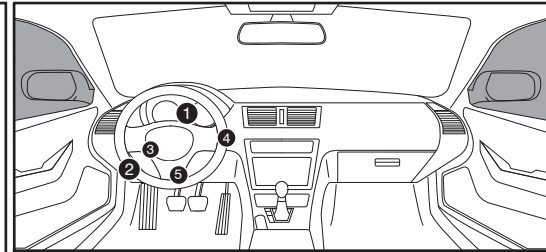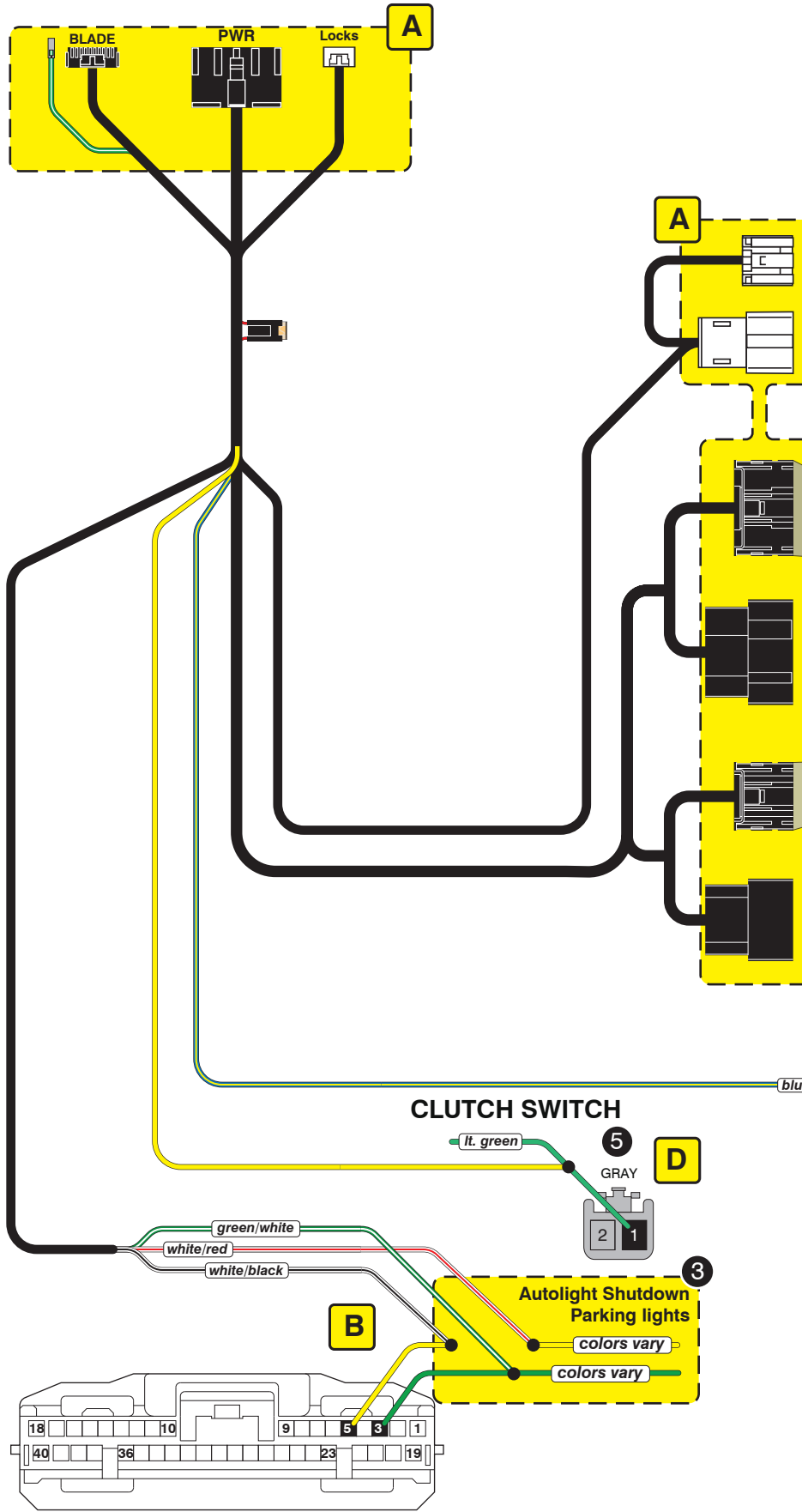HCP #2 - Accessory
HCP #3 - Ignition

[2] 2ND START
[3] 2ND IGNITION
[4] 2ND ACCESSORY

FEATURE COVERAGE

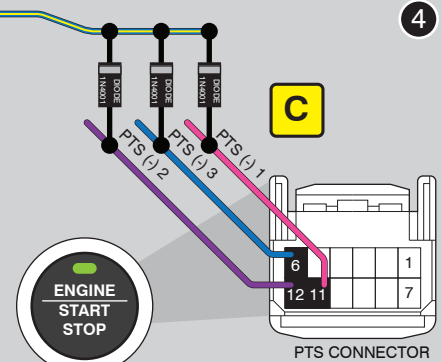| IMMOBILIZER DATA	3X LOCK REM START	PTS CONTROL	ARM OEM ALARM	DISARM OEM ALARM	A/M ALARM CTRL FROM OEM REMOTE	A/M RS CONTROL FROM OEM REMOTE	PRIORITY UNLOCK	DOOR LOCK	DOOR UNLOCK	TRUNK/HATCH RELEASE	DOOR STATUS OUT	TRUNK STATUS OUT	TACHOMETER OUT	BRAKE STATUS OUT	E-BRAKE STATUS	PARKING LIGHTS	AUTOLIGHT CONTROL
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

A

BLADE   PWR   Locks

A

Steering Lock Connector ❶

7   1

Main Body ECU ❷

PTS Button ❹

blue/yellow

CLUTCH SWITCH ❺   **D**

lt. green

GRAY

2   1

C

DIODE 1N4001   DIODE 1N4001   DIODE 1N4001

PTS (-) 2   PTS (-) 3   PTS (-) 1

ENGINE
START
STOP

6
12 11

1
7

PTS CONNECTOR

green/white
white/red
white/black

B

**Autolight Shutdown
Parking lights** ❸

colors vary
colors vary

18   10   9   5   3   1
40   36   23   19

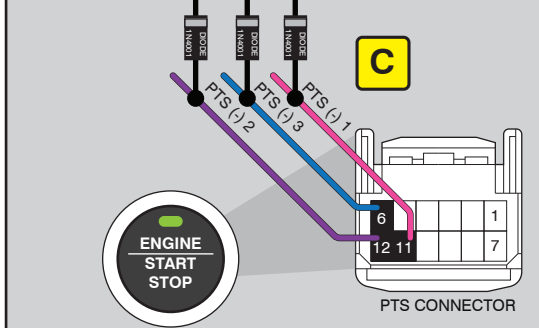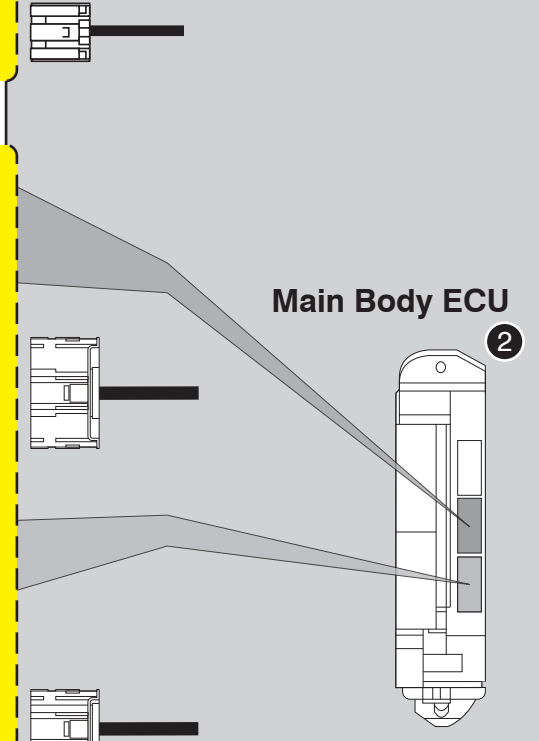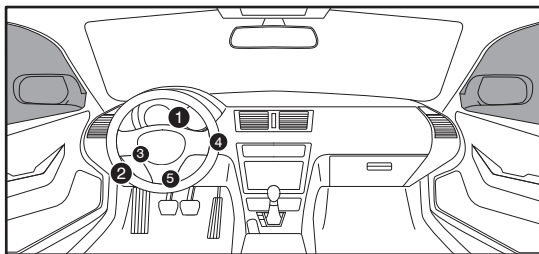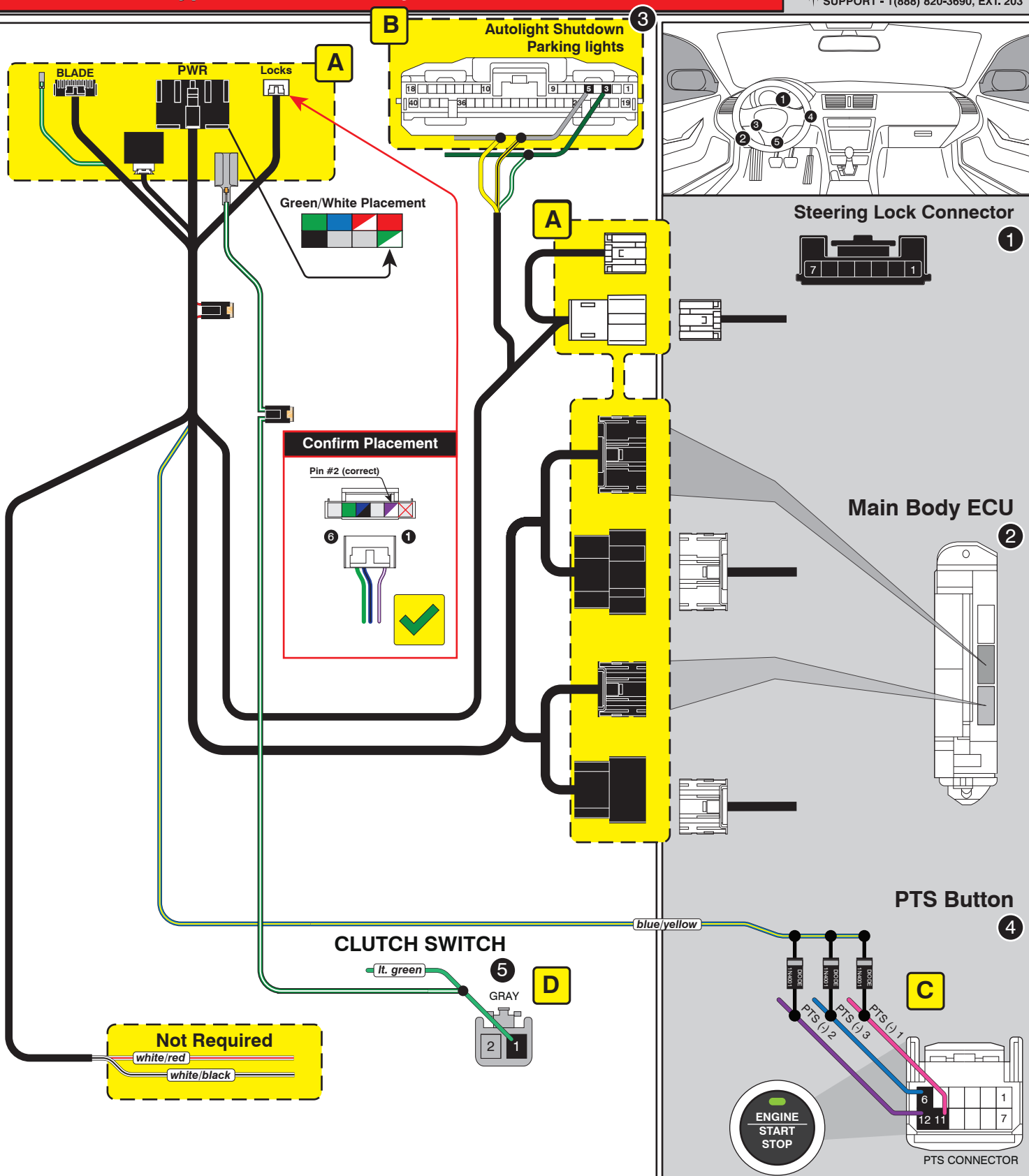## LED Programming Error Codes
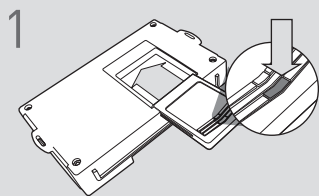Module LED flashing RED during programming

1x - CAN error, confirm harness configuration
2x - No IGN, confirm IGN power and harness configuration
3x - IMMO/CAN error, confirm harness configuration
4x - No VIN, module may default to base platform #2
5x - Unknown VIN, module may default to base platform #2
6x - OEM starter detected, cycle IGN, if issue persists,
     remove and reprogram

B Autolight Shutdown Parking lights ③

| 18 | | | 10 | | 9 | | 6 | 3 | 1 |
| 40 | | 36 | | | | 2 | | | 19 |

A

BLADE **PWR** **Locks** **A**

Green/White Placement

Confirm Placement

Pin #2 (correct)

⑥ ①

✅

Steering Lock Connector ❶

| 7 | | | | | 1 |

Main Body ECU ❷

PTS Button ❹

CLUTCH SWITCH ❺ **D**

lt. green

GRAY

| 2 | 1 |

Not Required

white/red
white/black

blue/yellow

C

DIODE 1N4001 DIODE 1N4001 DIODE 1N4001

PTS (-) 2 PTS (-) 3 PTS (-) 1

ENGINE START STOP

| | 6 | | 1 |
| 12 | 11 | | 7 |

PTS CONNECTOR

LED Programming Error Codes
Module LED flashing RED during programming

1x - CAN error, confirm harness configuration
2x - No IGN, confirm IGN power and harness configuration
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4x - No VIN, module may default to base platform #2
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6x - OEM starter detected, cycle IGN, if issue persists,
   remove and reprogram

INSTALL GUIDE

BLADE
SERIES

ALL IN ONE
LEXUS TOYOTA

COM-BLADE-AL(DL)-TL7-EN

Doc. No.: ##75340##   20210414

CARTRIDGE INSTALLATION

1

Slide cartridge into unit. Notice button under LED.

2

Ready for Module Programming Procedure.
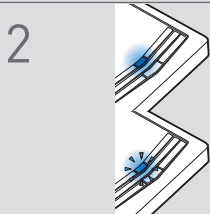
MODULE PROGRAMMING PROCEDURE

NOTE

I   IMPORTANT: The hood must be closed.

1

x2

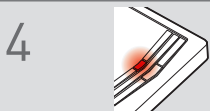Push start button twice [2x] to ON position.

2

Wait, if LED turns solid BLUE for 2 seconds, proceed to step 7.

If LED flashes BLUE rapidly, proceed to step 3.

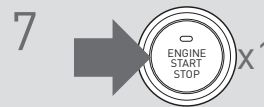**3**

x1

Push start button once [1x] to OFF position.

4

Wait, LED will turn solid RED. (This may take up to 5 minutes.)

5

x2

Push start button twice [2x] to ON position.

6

Wait, LED will turn solid BLUE for 2 seconds.

7

x1

Push start button once [1x] to OFF position.

8

Module Programming Procedure completed.