

Automotive Data Solutions Inc.

INSTALL GUIDE ADS-AL(TB)-TL-EN

AVAILABLE FOR: ADS-AL CA

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LEXUS

PONTIAC®

SCION

TOYOTA

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 |
|--------|------------------------|-------|--------------|
| TOYOTA | 4Runner | 99-02 | 1 |
| | 4Runner Regular key | 03-10 | 2 |
| | 4Runner PTS | 10 | 3 |
| | Avalon | 98-04 | 1 |
| | Avalon | 05-09 | 2 or 3 |
| | Camry | 98-02 | 1 |
| | Camry | 03-04 | 1 or 2 |
| | Camry | 05-06 | 2 |
| | Camry | 07-10 | 2 or 3 |
| | Camry Hybrid | 07-10 | 3 |
| | Corolla | 05-08 | 2 |
| | Corolla | 09-10 | 2 or 3 |
| | FJ Cruiser | 07-09 | 2 |
| | Hiace | 06-09 | 2 |
| | Highlander | 01-03 | 1 |
| | Highlander | 04-07 | 2 |
| | Highlander | 08-10 | 2 or 3 |
| | Highlander Hybrid | 06-07 | 5 |
| | Highlander Hybrid | 08-10 | 3 |
| | Hilux | 04-09 | 2 |
| | Land Cruiser | 98-02 | 1 |
| | Land Cruiser | 03-07 | 2 |
| | Land Cruiser | 08-10 | 3 |
| | Matrix | 05-10 | 2 |
| | MR2 Spyder | 00-05 | 1 |
| | Prius | 04-10 | 4 |
| | RAV4 | 01-03 | 1 |
| | RAV4 | 04-08 | 2 |
| | RAV4 | 09-10 | 2 or 3 |
| | Sequoia | 01-07 | 1 |
| | Sequoia | 08-10 | 2 |
| | Sienna | 99-03 | 1 |
| | Sienna | 04-10 | 2 |
| | Solara | 99-02 | 1 |
| | Solara | 03-04 | 1 or 2 |
| | Solara | 05-09 | 2 |
| | Tacoma | 05-10 | 2 |
| | Tundra | 06 | 1 |
| | Tundra | 07-09 | 2 |
| | Venza Regular key only | 09 | 2 |
| | Yaris | 06-11 | 2 |

| MAKE | MODEL | YEAR | INSTALL TYPE |
|---------|---------------|-------|--------------|
| LEXUS | ES 300 | 98-03 | 1 |
| | ES 330 | 04-06 | 2 |
| | ES 350 | 07-08 | 3 |
| | GS 300 | 98-05 | 1 |
| | GS 300 | 06 | 3 |
| | GS 350 | 07-08 | 3 |
| | GS 400 | 98-00 | 1 |
| | GS 430 | 01-05 | 1 |
| | GS 430 | 06-07 | 3 |
| | GS 450 Hybrid | 07-08 | 3 |
| | GS 460 | 08 | 3 |
| | GX 470 | 03-09 | 2 |
| | IS 250 | 06-08 | 3 |
| | IS 300 | 01-05 | 1 |
| | IS 350 | 06-08 | 3 |
| | IS-F | 08 | 3 |
| | LS 400 | 98-00 | 1 |
| | LS 430 | 01-03 | 1 |
| | LS 430 | 04-06 | 1 or 2 |
| | LS 460 | 07-08 | 3 |
| | LS 600 Hybrid | 08 | 3 |
| PONTIAC | LX 470 | 98-02 | 1 |
| | LX 470 | 03-07 | 2 |
| | RX 300 | 99-03 | 1 |
| | RX 330 | 04-06 | 2 |
| | RX 350 | 07-09 | 2 |
| | RX 400 Hybrid | 06-08 | 5 |
| | SC 300 | 98-00 | 1 |
| | SC 400 | 98-00 | 1 |
| | SC 430 | 02-09 | 1 |
| | Vibe | 08-10 | 2 |
| SCION | tC | 05-10 | 2 |
| | xB | 08-10 | 2 |
| | xD | 08-10 | 2 |

NOTE

- I 1/2 - Type may vary by vehicle equipment level.
2/3 - Type may be standard key or push to start.
NC - Not covered
- II WARNING: Please advise that the install type numbers have changed since the last revision of this install guide.
- III Type 3 install provides simulated tach output for hybrid vehicles.

A hybrid vehicle might be running without its engine being running.
To determine whether a hybrid vehicle is running or not, look at the instrument cluster, radio and heating system.

"Push to Start" vehicles have a maximum take over time of 45 seconds:
for security reasons, during the remote starter runtime, the driver must press the unlock button of the remote starter fob to trigger a 45 seconds time window which will permit him/her to step into the vehicle and press the brake pedal to complete take over.

TYPE 1 - WIRE CROSS REFERENCE CHART - 1 OF 5

| MAKE | MODEL | YEAR | WIRE DESCRIPTION | CONNECTOR | | | POSITION | WIRE COLOR | POLARITY | MODULE LOCATION | COMPONENT LOCATOR |
|--------|---------------|-------|------------------|-----------|-------|-------|----------|--------------|----------|-----------------|-------------------|
| | | | | NAME | COLOR | TYPE | | | | | |
| TOYOTA | 4Runner | 99-02 | AMP | A | ~ | 5 pin | 1 | White/Blue | (DATA) | Ignition switch | ~ |
| | | | Code | A | ~ | 5 pin | 2 | Gray/Red | (DATA) | Ignition switch | ~ |
| | | | RXCK | A | ~ | 5 pin | 3 | Red/Black | (DATA) | Ignition switch | ~ |
| | | | TXCT | A | ~ | 5 pin | 4 | Pink/Black | (DATA) | Ignition switch | ~ |
| | | | Ground | A | ~ | 5 pin | 5 | Brown | (-) | Ignition switch | ~ |
| | | | Key Sense | A | ~ | 5 pin | ~ | Yellow/Red | (-) | Ignition switch | ~ |
| | Avalon | 98-99 | AMP | A | ~ | 5 pin | 1 | LtGreen | (DATA) | Ignition switch | ~ |
| | | | Code | A | ~ | 5 pin | 2 | Black/Red | (DATA) | Ignition switch | ~ |
| | | | RXCK | A | ~ | 5 pin | 3 | Yellow | (DATA) | Ignition switch | ~ |
| | | | TXCT | A | ~ | 5 pin | 4 | Green | (DATA) | Ignition switch | ~ |
| | | | Ground | A | ~ | 5 pin | 5 | White/Black | (-) | Ignition switch | ~ |
| | | | Key Sense | A | ~ | 5 pin | ~ | Red/Yellow | (-) | Ignition switch | ~ |
| | Avalon | 00-04 | AMP | A | ~ | 5 pin | 1 | Black/White | (DATA) | Ignition switch | ~ |
| | | | Code | A | ~ | 5 pin | 2 | Pink/Green | (DATA) | Ignition switch | ~ |
| | | | RXCK | A | ~ | 5 pin | 3 | Blue/Orange | (DATA) | Ignition switch | ~ |
| | | | TXCT | A | ~ | 5 pin | 4 | Blue/Yellow | (DATA) | Ignition switch | ~ |
| | | | Ground | A | ~ | 5 pin | 5 | White/Black | (-) | Ignition switch | ~ |
| | | | Key Sense | A | ~ | 5 pin | ~ | Red/White | (-) | Ignition switch | ~ |
| | Camry | 98-01 | AMP | A | ~ | 5 pin | 1 | Black/Yellow | (DATA) | Ignition switch | ~ |
| | | | Code | A | ~ | 5 pin | 2 | Green/White | (DATA) | Ignition switch | ~ |
| | | | RXCK | A | ~ | 5 pin | 3 | Red/Blue | (DATA) | Ignition switch | ~ |
| | | | TXCT | A | ~ | 5 pin | 4 | Blue/Yellow | (DATA) | Ignition switch | ~ |
| | | | Ground | A | ~ | 5 pin | 5 | White/Black | (-) | Ignition switch | ~ |
| | | | Key Sense | A | ~ | 5 pin | ~ | Blue/Black | (-) | Ignition switch | ~ |
| | Camry (4 cyl) | 02-04 | AMP | B | ~ | 7 pin | 1 | Black/Red | (DATA) | Ignition switch | ~ |
| | | | Code | B | ~ | 7 pin | 4 | Green/White | (DATA) | Ignition switch | ~ |
| | | | RXCK | B | ~ | 7 pin | 3 | Red/Blue | (DATA) | Ignition switch | ~ |
| | | | TXCT | B | ~ | 7 pin | 5 | Blue/Yellow | (DATA) | Ignition switch | ~ |
| | | | Ground | B | ~ | 7 pin | 7 | White/Black | (-) | Ignition switch | ~ |
| | | | Key Sense | B | ~ | 7 pin | ~ | Blue | (-) | Ignition switch | ~ |
| | Camry (6cyl) | 02-03 | AMP | B | ~ | 7 pin | 1 | Black/Red | (DATA) | Ignition switch | ~ |
| | | | Code | B | ~ | 7 pin | 4 | Green/White | (DATA) | Ignition switch | ~ |
| | | | RXCK | B | ~ | 7 pin | 3 | Red/Blue | (DATA) | Ignition switch | ~ |
| | | | TXCT | B | ~ | 7 pin | 5 | Blue/Yellow | (DATA) | Ignition switch | ~ |
| | | | Ground | B | ~ | 7 pin | 7 | White/Black | (-) | Ignition switch | ~ |
| | | | Key Sense | B | ~ | 7 pin | ~ | Blue | (-) | Ignition switch | ~ |
| | Highlander | 01-03 | AMP | B | ~ | 7 pin | 1 | White | (DATA) | Ignition switch | ~ |
| | | | Code | B | ~ | 7 pin | 4 | Gray/Blue | (DATA) | Ignition switch | ~ |
| | | | RXCK | B | ~ | 7 pin | 3 | Pink | (DATA) | Ignition switch | ~ |
| | | | TXCT | B | ~ | 7 pin | 5 | Gray | (DATA) | Ignition switch | ~ |
| | | | Ground | B | ~ | 7 pin | 7 | White/Black | (-) | Ignition switch | ~ |
| | | | Key Sense | B | ~ | 7 pin | ~ | Blue | (-) | Ignition switch | ~ |

TYPE 1 - WIRE CROSS REFERENCE CHART - 2 OF 5

| MAKE | MODEL | YEAR | WIRE DESCRIPTION | CONNECTOR | | | POSITION | WIRE COLOR | POLARITY | MODULE LOCATION | COMPONENT LOCATOR |
|--------|--------------|-------|------------------|-----------|-------|-------|----------|--------------|----------|-----------------|-------------------|
| | | | | NAME | COLOR | TYPE | | | | | |
| TOYOTA | Land Cruiser | 98-02 | AMP | E | ~ | 6 pin | 1 | Black/Yellow | (DATA) | Ignition switch | ~ |
| | | | Code | E | ~ | 6 pin | 2 | Blue/Black | (DATA) | Ignition switch | ~ |
| | | | RXCK | E | ~ | 6 pin | 3 | Purple/Green | (DATA) | Ignition switch | ~ |
| | | | TXCT | E | ~ | 6 pin | 4 | Red/Yellow | (DATA) | Ignition switch | ~ |
| | | | Ground | E | ~ | 6 pin | 5 | White/Black | (-) | Ignition switch | ~ |
| | | | Key Sense | E | ~ | 6 pin | ~ | Red/Black | (-) | Ignition switch | ~ |
| | MR2 Spyder | 00-05 | AMP | C | ~ | 5 pin | 5 | Black | (DATA) | Ignition switch | ~ |
| | | | Code | C | ~ | 5 pin | 2 | Blue/Yellow | (DATA) | Ignition switch | ~ |
| | | | RXCK | C | ~ | 5 pin | 4 | Yellow | (DATA) | Ignition switch | ~ |
| | | | TXCT | C | ~ | 5 pin | 1 | Blue/Black | (DATA) | Ignition switch | ~ |
| | | | Ground | C | ~ | 5 pin | 3 | White/Black | (-) | Ignition switch | ~ |
| | | | Key Sense | C | ~ | 5 pin | ~ | Yellow/Red | (-) | Ignition switch | ~ |
| | RAV4 | 01-03 | AMP | C | ~ | 5 pin | 5 | Black/Red | (DATA) | Ignition switch | ~ |
| | | | Code | C | ~ | 5 pin | 2 | Yellow/Green | (DATA) | Ignition switch | ~ |
| | | | RXCK | C | ~ | 5 pin | 4 | Yellow | (DATA) | Ignition switch | ~ |
| | | | TXCT | C | ~ | 5 pin | 1 | Yellow/Black | (DATA) | Ignition switch | ~ |
| | | | Ground | C | ~ | 5 pin | 3 | White/Black | (-) | Ignition switch | ~ |
| | | | Key Sense | C | ~ | 5 pin | ~ | Blue/Red | (-) | Ignition switch | ~ |
| | Sequoia | 01-02 | AMP | D | ~ | 6 pin | 1 | Black/Red | (DATA) | Ignition switch | ~ |
| | | | Code | D | ~ | 6 pin | 4 | Red/Yellow | (DATA) | Ignition switch | ~ |
| | | | RXCK | D | ~ | 6 pin | 5 | LtGreen | (DATA) | Ignition switch | ~ |
| | | | TXCT | D | ~ | 6 pin | 6 | Yellow/Green | (DATA) | Ignition switch | ~ |
| | | | Ground | D | ~ | 6 pin | 2 | Orange | (-) | Ignition switch | ~ |
| | | | Key Sense | D | ~ | 6 pin | ~ | Yellow/Green | (-) | Ignition switch | ~ |
| | Sequoia | 03-07 | AMP | D | ~ | 6 pin | 1 | Gray/Black | (DATA) | Ignition switch | ~ |
| | | | Code | D | ~ | 6 pin | 4 | Red/Yellow | (DATA) | Ignition switch | ~ |
| | | | RXCK | D | ~ | 6 pin | 5 | LtGreen | (DATA) | Ignition switch | ~ |
| | | | TXCT | D | ~ | 6 pin | 6 | Yellow/Green | (DATA) | Ignition switch | ~ |
| | | | Ground | D | ~ | 6 pin | 2 | Gray/LtBlue | (-) | Ignition switch | ~ |
| | | | Key Sense | D | ~ | 6 pin | ~ | Yellow/Green | (-) | Ignition switch | ~ |
| | Sienna | 99-03 | AMP | A | ~ | 5 pin | 1 | Black/Red | (DATA) | Ignition switch | ~ |
| | | | Code | A | ~ | 5 pin | 2 | Brown/White | (DATA) | Ignition switch | ~ |
| | | | RXCK | A | ~ | 5 pin | 3 | Brown/Red | (DATA) | Ignition switch | ~ |
| | | | TXCT | A | ~ | 5 pin | 4 | Brown/Yellow | (DATA) | Ignition switch | ~ |
| | | | Ground | A | ~ | 5 pin | 5 | White/Black | (-) | Ignition switch | ~ |
| | | | Key Sense | A | ~ | 5 pin | ~ | Blue/Black | (-) | Ignition switch | ~ |
| | Solara | 99-03 | AMP | A | ~ | 5 pin | 1 | Red | (DATA) | Ignition switch | ~ |
| | | | Code | A | ~ | 5 pin | 2 | Green/White | (DATA) | Ignition switch | ~ |
| | | | RXCK | A | ~ | 5 pin | 3 | Red/Blue | (DATA) | Ignition switch | ~ |
| | | | TXCT | A | ~ | 5 pin | 4 | Blue/Yellow | (DATA) | Ignition switch | ~ |
| | | | Ground | A | ~ | 5 pin | 5 | White/Black | (-) | Ignition switch | ~ |
| | | | Key Sense | A | ~ | 5 pin | ~ | Blue/Black | (-) | Ignition switch | ~ |

TYPE 1 - WIRE CROSS REFERENCE CHART - 3 OF 5

| MAKE | MODEL | YEAR | WIRE DESCRIPTION | CONNECTOR | | | POSITION | WIRE COLOR | POLARITY | MODULE LOCATION | COMPONENT LOCATOR |
|--------|---------------|-------|------------------|-----------|-------|-------|----------|--------------|----------|-----------------|-------------------|
| | | | | NAME | COLOR | TYPE | | | | | |
| TOYOTA | Tundra S. Cab | 06 | AMP | D | ~ | 6 pin | 1 | Red | (DATA) | Ignition switch | ~ |
| | | | Code | D | ~ | 6 pin | 3 | Green | (DATA) | Ignition switch | ~ |
| | | | RXCK | D | ~ | 6 pin | 4 | Blue/Red | (DATA) | Ignition switch | ~ |
| | | | TXCT | D | ~ | 6 pin | 5 | Gray | (DATA) | Ignition switch | ~ |
| | | | Ground | D | ~ | 6 pin | 2 | Pink | (-) | Ignition switch | ~ |
| | | | Key Sense | D | ~ | 6 pin | ~ | Pink/Black | (-) | Ignition switch | ~ |
| | Tundra D. Cab | 06 | AMP | D | ~ | 6 pin | 1 | White | (DATA) | Ignition switch | ~ |
| | | | Code | D | ~ | 6 pin | 4 | Green | (DATA) | Ignition switch | ~ |
| | | | RXCK | D | ~ | 6 pin | 5 | Red | (DATA) | Ignition switch | ~ |
| | | | TXCT | D | ~ | 6 pin | 6 | Black | (DATA) | Ignition switch | ~ |
| | | | Ground | D | ~ | 6 pin | 2 | Gray | (-) | Ignition switch | ~ |
| | | | Key Sense | D | ~ | 6 pin | ~ | Yellow/Green | (-) | Ignition switch | ~ |
| LEXUS | ES300 | 98-01 | AMP | A | ~ | 5 pin | 1 | Black/Yellow | (DATA) | Ignition switch | ~ |
| | | | Code | A | ~ | 5 pin | 2 | Green/White | (DATA) | Ignition switch | ~ |
| | | | RXCK | A | ~ | 5 pin | 3 | Red/Blue | (DATA) | Ignition switch | ~ |
| | | | TXCT | A | ~ | 5 pin | 4 | Blue/Yellow | (DATA) | Ignition switch | ~ |
| | | | Ground | A | ~ | 5 pin | 5 | White/Black | (-) | Ignition switch | ~ |
| | | | Key Sense | A | ~ | 5 pin | ~ | Blue/Black | (-) | Ignition switch | ~ |
| | ES300 | 02-03 | AMP | B | ~ | 7 pin | 1 | Black/Red | (DATA) | Ignition switch | ~ |
| | | | Code | B | ~ | 7 pin | 4 | Green/White | (DATA) | Ignition switch | ~ |
| | | | RXCK | B | ~ | 7 pin | 3 | Red/Blue | (DATA) | Ignition switch | ~ |
| | | | TXCT | B | ~ | 7 pin | 5 | Blue/Yellow | (DATA) | Ignition switch | ~ |
| | | | Ground | B | ~ | 7 pin | 7 | White/Black | (-) | Ignition switch | ~ |
| | | | Key Sense | B | ~ | 7 pin | ~ | Blue | (-) | Ignition switch | ~ |
| | GS 300 | 98-00 | AMP | E | ~ | 6 pin | 1 | Black/Red | (DATA) | Ignition switch | ~ |
| | | | Code | E | ~ | 6 pin | 2 | Green/Black | (DATA) | Ignition switch | ~ |
| | | | RXCK | E | ~ | 6 pin | 3 | Black/White | (DATA) | Ignition switch | ~ |
| | | | TXCT | E | ~ | 6 pin | 4 | Blue/Red | (DATA) | Ignition switch | ~ |
| | | | Ground | E | ~ | 6 pin | 5 | White/Black | (-) | Ignition switch | ~ |
| | | | Key Sense | E | ~ | 6 pin | ~ | Yellow | (-) | Ignition switch | ~ |
| | GS 300 | 01-05 | AMP | A | ~ | 5 pin | 1 | Black/Red | (DATA) | Ignition switch | ~ |
| | | | Code | A | ~ | 5 pin | 2 | Green/Black | (DATA) | Ignition switch | ~ |
| | | | RXCK | A | ~ | 5 pin | 3 | Black/White | (DATA) | Ignition switch | ~ |
| | | | TXCT | A | ~ | 5 pin | 4 | Blue/Red | (DATA) | Ignition switch | ~ |
| | | | Ground | A | ~ | 5 pin | 5 | White/Black | (-) | Ignition switch | ~ |
| | | | Key Sense | A | ~ | 5 pin | ~ | Yellow | (-) | Ignition switch | ~ |
| | GS 400 | 98-00 | AMP | E | ~ | 6 pin | 1 | Black/Red | (DATA) | Ignition switch | ~ |
| | | | Code | E | ~ | 6 pin | 2 | Green/Black | (DATA) | Ignition switch | ~ |
| | | | RXCK | E | ~ | 6 pin | 3 | Black/White | (DATA) | Ignition switch | ~ |
| | | | TXCT | E | ~ | 6 pin | 4 | Blue/Red | (DATA) | Ignition switch | ~ |
| | | | Ground | E | ~ | 6 pin | 5 | White/Black | (-) | Ignition switch | ~ |
| | | | Key Sense | E | ~ | 6 pin | ~ | Yellow | (-) | Ignition switch | ~ |

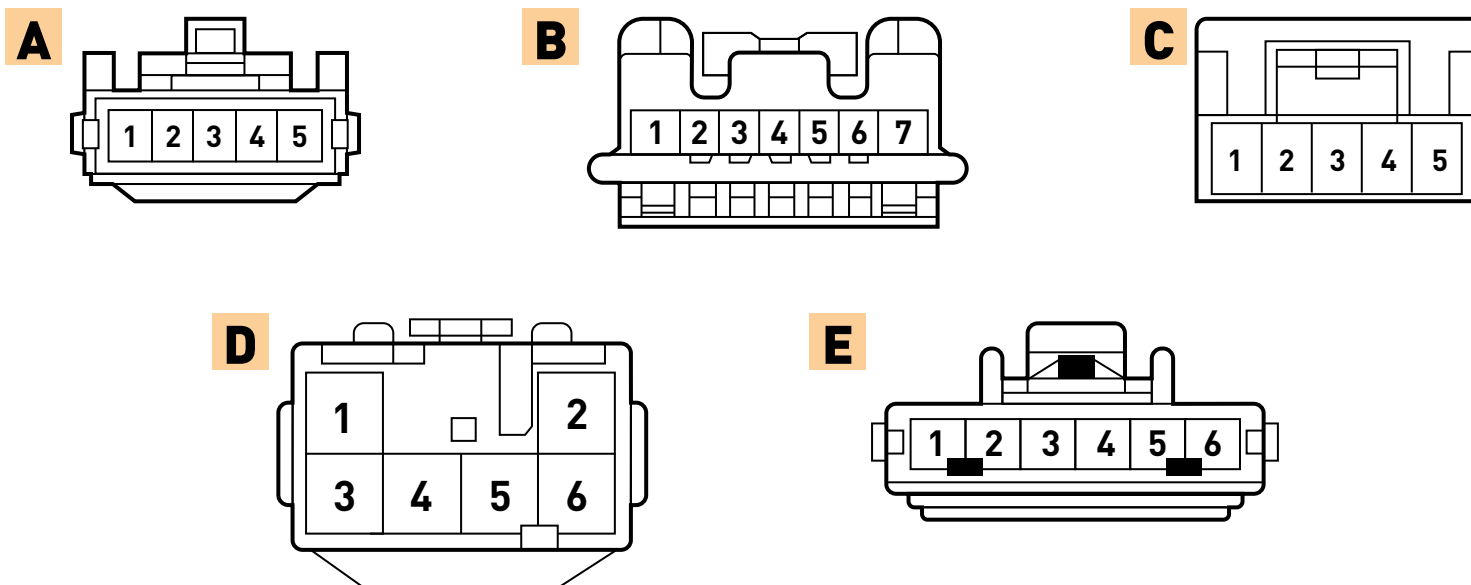
TYPE 1 - WIRE CROSS REFERENCE CHART - 4 OF 5

| MAKE | MODEL | YEAR | WIRE DESCRIPTION | CONNECTOR | | | POSITION | WIRE COLOR | POLARITY | MODULE LOCATION | COMPONENT LOCATOR |
|-------|-------------------|-------|------------------|-----------|-------|-------|----------|---------------|----------|-----------------|-------------------|
| | | | | NAME | COLOR | TYPE | | | | | |
| LEXUS | GS 430 | 01-05 | AMP | A | ~ | 5 pin | 1 | Black/Red | (DATA) | Ignition switch | ~ |
| | | | Code | A | ~ | 5 pin | 2 | Green/Black | (DATA) | Ignition switch | ~ |
| | | | RXCK | A | ~ | 5 pin | 3 | Black/White | (DATA) | Ignition switch | ~ |
| | | | TXCT | A | ~ | 5 pin | 4 | Blue/Red | (DATA) | Ignition switch | ~ |
| | | | Ground | A | ~ | 5 pin | 5 | White/Black | (-) | Ignition switch | ~ |
| | | | Key Sense | A | ~ | 5 pin | ~ | Yellow | (-) | Ignition switch | ~ |
| | IS 300 | 01 | AMP | A | ~ | 5 pin | 1 | Black/Red | (DATA) | Ignition switch | ~ |
| | | | Code | A | ~ | 5 pin | 2 | Green | (DATA) | Ignition switch | ~ |
| | | | RXCK | A | ~ | 5 pin | 3 | Purple | (DATA) | Ignition switch | ~ |
| | | | TXCT | A | ~ | 5 pin | 4 | Pink | (DATA) | Ignition switch | ~ |
| | | | Ground | A | ~ | 5 pin | 5 | White/Black | (-) | Ignition switch | ~ |
| | | | Key Sense | A | ~ | 5 pin | ~ | Black/Yellow | (-) | Ignition switch | ~ |
| | IS 300 | 02-05 | AMP | A | ~ | 5 pin | 1 | Black/Red | (DATA) | Ignition switch | ~ |
| | | | Code | A | ~ | 5 pin | 2 | Green/Black | (DATA) | Ignition switch | ~ |
| | | | RXCK | A | ~ | 5 pin | 3 | Purple | (DATA) | Ignition switch | ~ |
| | | | TXCT | A | ~ | 5 pin | 4 | Pink/Black | (DATA) | Ignition switch | ~ |
| | | | Ground | A | ~ | 5 pin | 5 | White/Black | (-) | Ignition switch | ~ |
| | | | Key Sense | A | ~ | 5 pin | ~ | Black/Yellow | (-) | Ignition switch | ~ |
| | LS 400 | 98-00 | AMP | A | ~ | 5 pin | 1 | White | (DATA) | Ignition switch | ~ |
| | | | Code | A | ~ | 5 pin | 2 | Red/White | (DATA) | Ignition switch | ~ |
| | | | RXCK | A | ~ | 5 pin | 3 | Red/Black | (DATA) | Ignition switch | ~ |
| | | | TXCT | A | ~ | 5 pin | 4 | Red | (DATA) | Ignition switch | ~ |
| | | | Ground | A | ~ | 5 pin | 5 | White/Black | (-) | Ignition switch | ~ |
| | | | Key Sense | A | ~ | 5 pin | ~ | Yellow | (-) | Ignition switch | ~ |
| | LS 430 | 01-03 | AMP | B | ~ | 7 pin | 1 | Orange | (DATA) | Ignition switch | ~ |
| | | | Code | B | ~ | 7 pin | 4 | Red/White | (DATA) | Ignition switch | ~ |
| | | | RXCK | B | ~ | 7 pin | 3 | White/Red | (DATA) | Ignition switch | ~ |
| | | | TXCT | B | ~ | 7 pin | 5 | LtBlue/Black | (DATA) | Ignition switch | ~ |
| | | | Ground | B | ~ | 7 pin | 7 | Violet | (-) | Ignition switch | ~ |
| | | | Key Sense | B | ~ | 7 pin | ~ | LtGreen/Black | (-) | Ignition switch | ~ |
| | LS 430 (Smartkey) | 04-06 | AMP | B | ~ | 7 pin | 1 | Red | (DATA) | Ignition switch | ~ |
| | | | Code | B | ~ | 7 pin | 4 | Orange | (DATA) | Ignition switch | ~ |
| | | | RXCK | B | ~ | 7 pin | 3 | LtBlue | (DATA) | Ignition switch | ~ |
| | | | TXCT | B | ~ | 7 pin | 5 | Yellow/Black | (DATA) | Ignition switch | ~ |
| | | | Ground | B | ~ | 7 pin | 7 | Violet | (-) | Ignition switch | ~ |
| | | | Key Sense | B | ~ | 7 pin | ~ | LtGreen/Black | (-) | Ignition switch | ~ |
| | LX 470 | 98-02 | AMP | E | ~ | 6 pin | 1 | Black/Yellow | (DATA) | Ignition switch | ~ |
| | | | Code | E | ~ | 6 pin | 2 | Blue/Black | (DATA) | Ignition switch | ~ |
| | | | RXCK | E | ~ | 6 pin | 3 | Purple/Green | (DATA) | Ignition switch | ~ |
| | | | TXCT | E | ~ | 6 pin | 4 | Red/Yellow | (DATA) | Ignition switch | ~ |
| | | | Ground | E | ~ | 6 pin | 5 | White/Black | (-) | Ignition switch | ~ |
| | | | Key Sense | E | ~ | 6 pin | ~ | Red/White | (-) | Ignition switch | ~ |

TYPE 1 - WIRE CROSS REFERENCE CHART - 5 OF 5

| MAKE | MODEL | YEAR | WIRE DESCRIPTION | CONNECTOR | | | POSITION | WIRE COLOR | POLARITY | MODULE LOCATION | COMPONENT LOCATOR |
|-------|--------|-------|------------------|-----------|-------|-------|----------|---------------|----------|-----------------|-------------------|
| | | | | NAME | COLOR | TYPE | | | | | |
| LEXUS | RX 300 | 99 | AMP | A | ~ | 5 pin | 1 | Blue/White | (DATA) | Ignition switch | ~ |
| | | | Code | A | ~ | 5 pin | 2 | Purple | (DATA) | Ignition switch | ~ |
| | | | RXCK | A | ~ | 5 pin | 3 | Black | (DATA) | Ignition switch | ~ |
| | | | TXCT | A | ~ | 5 pin | 4 | Gray | (DATA) | Ignition switch | ~ |
| | | | Ground | A | ~ | 5 pin | 5 | White/Black | (-) | Ignition switch | ~ |
| | | | Key Sense | A | ~ | 5 pin | ~ | Blue | (-) | Ignition switch | ~ |
| | RX 300 | 00 | AMP | A | ~ | 5 pin | 1 | Blue/White | (DATA) | Ignition switch | ~ |
| | | | Code | A | ~ | 5 pin | 2 | Purple | (DATA) | Ignition switch | ~ |
| | | | RXCK | A | ~ | 5 pin | 3 | Pink | (DATA) | Ignition switch | ~ |
| | | | TXCT | A | ~ | 5 pin | 4 | Gray | (DATA) | Ignition switch | ~ |
| | | | Ground | A | ~ | 5 pin | 5 | White/Black | (-) | Ignition switch | ~ |
| | | | Key Sense | A | ~ | 5 pin | ~ | Blue | (-) | Ignition switch | ~ |
| | RX 300 | 01-03 | AMP | A | ~ | 5 pin | 1 | Black/Red | (DATA) | Ignition switch | ~ |
| | | | Code | A | ~ | 5 pin | 2 | Purple | (DATA) | Ignition switch | ~ |
| | | | RXCK | A | ~ | 5 pin | 3 | Pink | (DATA) | Ignition switch | ~ |
| | | | TXCT | A | ~ | 5 pin | 4 | Gray | (DATA) | Ignition switch | ~ |
| | | | Ground | A | ~ | 5 pin | 5 | White/Black | (-) | Ignition switch | ~ |
| | | | Key Sense | A | ~ | 5 pin | ~ | Blue | (-) | Ignition switch | ~ |
| | SC 300 | 98-00 | AMP | A | ~ | 5 pin | 1 | Black/Red | (DATA) | Ignition switch | ~ |
| | | | Code | A | ~ | 5 pin | 2 | Black/Orange | (DATA) | Ignition switch | ~ |
| | | | RXCK | A | ~ | 5 pin | 3 | Blue | (DATA) | Ignition switch | ~ |
| | | | TXCT | A | ~ | 5 pin | 4 | Green/Orange | (DATA) | Ignition switch | ~ |
| | | | Ground | A | ~ | 5 pin | 5 | White/Green | (-) | Ignition switch | ~ |
| | | | Key Sense | A | ~ | 5 pin | ~ | Yellow | (-) | Ignition switch | ~ |
| | SC 400 | 98-00 | AMP | A | ~ | 5 pin | 1 | Black/Red | (DATA) | Ignition switch | ~ |
| | | | Code | A | ~ | 5 pin | 2 | Black/Orange | (DATA) | Ignition switch | ~ |
| | | | RXCK | A | ~ | 5 pin | 3 | Blue | (DATA) | Ignition switch | ~ |
| | | | TXCT | A | ~ | 5 pin | 4 | Green/Orange | (DATA) | Ignition switch | ~ |
| | | | Ground | A | ~ | 5 pin | 5 | White/Green | (-) | Ignition switch | ~ |
| | | | Key Sense | A | ~ | 5 pin | ~ | Yellow | (-) | Ignition switch | ~ |
| | SC 430 | 02-09 | AMP | A | ~ | 5 pin | 1 | Yellow | (DATA) | Ignition switch | ~ |
| | | | Code | A | ~ | 5 pin | 2 | Violet/White | (DATA) | Ignition switch | ~ |
| | | | RXCK | A | ~ | 5 pin | 3 | Red | (DATA) | Ignition switch | ~ |
| | | | TXCT | A | ~ | 5 pin | 4 | Green | (DATA) | Ignition switch | ~ |
| | | | Ground | A | ~ | 5 pin | 5 | Violet | (-) | Ignition switch | ~ |
| | | | Key Sense | A | ~ | 5 pin | ~ | LtGreen/Black | (-) | Ignition switch | ~ |

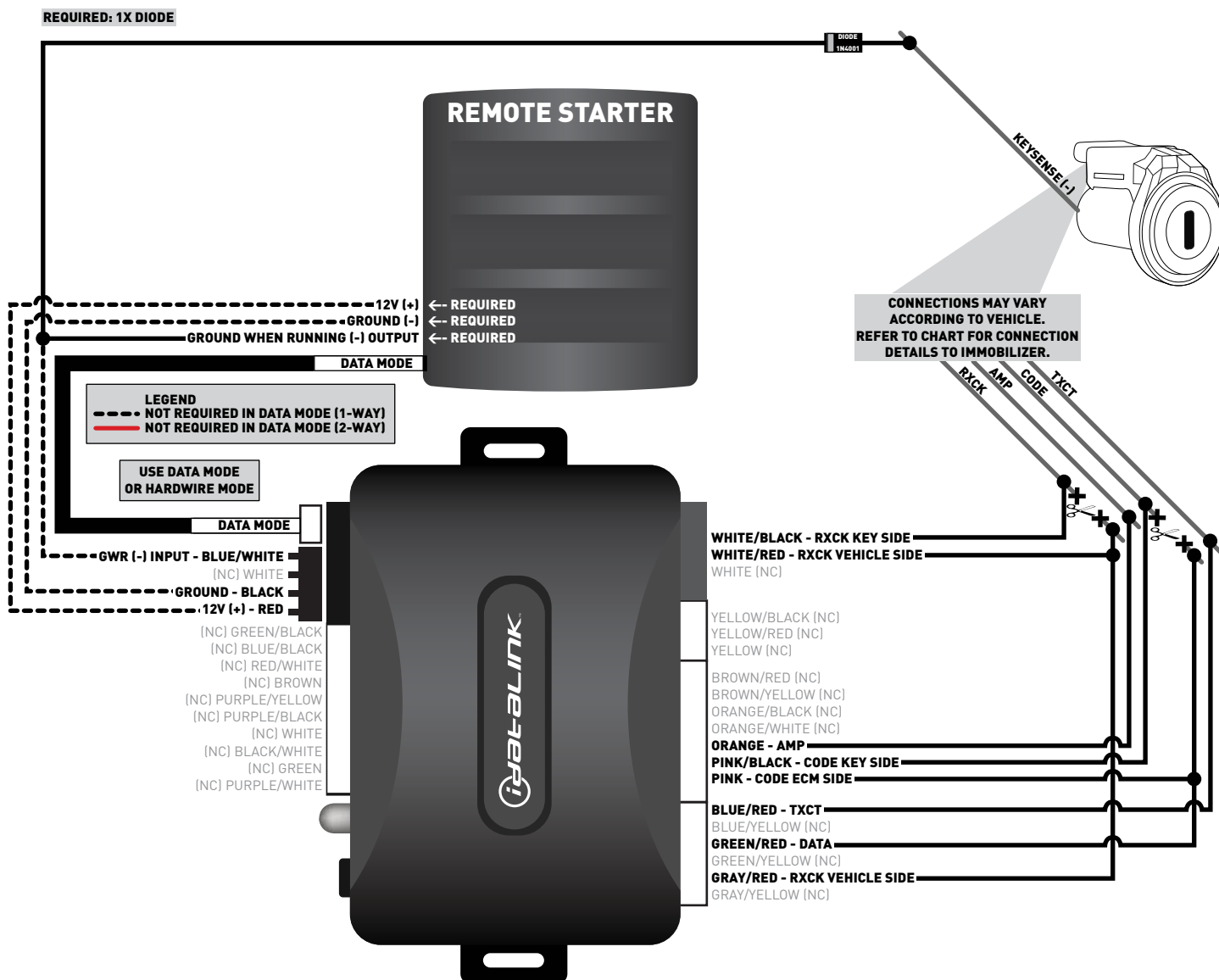
TYPE 1 - COMPONENT LOCATOR - CONNECTORS



Connector located at immobilizer near key barrel or 8 inches lower on the immobilizer harness.

TYPE 1 - WIRING DIAGRAM

STANDARD 12 VOLT, GROUND AND IGNITION SWITCH CONNECTIONS ARE STILL REQUIRED FROM THE REMOTE STARTER.



TYPE 2 - WIRE CROSS REFERENCE CHART - 1 OF 3

| MAKE | MODEL | YEAR | WIRE DESCRIPTION | CONNECTOR | | | POSITION | WIRE COLOR | POLARITY | MODULE LOCATION | COMPONENT LOCATOR |
|--------|------------------|-------|------------------|-----------|-------|-------|----------|---------------|----------|-----------------|-------------------|
| | | | | NAME | COLOR | TYPE | | | | | |
| TOYOTA | 4Runner | 03-10 | Code | ~ | ~ | 7 pin | 4 | Pink/Green | (DATA) | Ignition switch | ~ |
| | | | TXCT | ~ | ~ | 7 pin | 5 | LtGreen/Red | (DATA) | Ignition switch | ~ |
| | | | Keysense | ~ | ~ | 7 pin | ~ | Green/Yellow | (-) | Ignition switch | ~ |
| | Avalon | 05-09 | Code | ~ | ~ | 7 pin | 4 | LtGreen | (DATA) | Ignition switch | ~ |
| | | | TXCT | ~ | ~ | 7 pin | 5 | Brown | (DATA) | Ignition switch | ~ |
| | | | Keysense | ~ | ~ | 7 pin | ~ | Black | (-) | Ignition switch | ~ |
| | Camry | 03-06 | Code | ~ | ~ | 7 pin | 4 | Green/White | (DATA) | Ignition switch | ~ |
| | | | TXCT | ~ | ~ | 7 pin | 5 | Blue/Yellow | (DATA) | Ignition switch | ~ |
| | | | Keysense | ~ | ~ | 7 pin | ~ | Blue | (-) | Ignition switch | ~ |
| | Camry | 07-10 | Code | ~ | ~ | 7 pin | 4 | Brown | (DATA) | Ignition switch | ~ |
| | | | TXCT | ~ | ~ | 7 pin | 5 | Red | (DATA) | Ignition switch | ~ |
| | | | Keysense | ~ | ~ | 7 pin | ~ | Blue | (-) | Ignition switch | ~ |
| | Corolla | 05-08 | Code | ~ | ~ | 7 pin | 4 | Blue | (DATA) | Ignition switch | ~ |
| | | | TXCT | ~ | ~ | 7 pin | 5 | Green | (DATA) | Ignition switch | ~ |
| | | | Keysense | ~ | ~ | 7 pin | ~ | Blue/Black | (-) | Ignition switch | ~ |
| | Corolla (Japan) | 09-10 | Code | ~ | ~ | 7 pin | 4 | LtBlue | (DATA) | Ignition switch | ~ |
| | | | TXCT | ~ | ~ | 7 pin | 5 | Beige | (DATA) | Ignition switch | ~ |
| | | | Keysense | ~ | ~ | 7 pin | ~ | LtBlue | (-) | Ignition switch | ~ |
| | Corolla (Canada) | 09-10 | Code | ~ | ~ | 7 pin | 4 | Pink | (DATA) | Ignition switch | ~ |
| | | | TXCT | ~ | ~ | 7 pin | 5 | Green | (DATA) | Ignition switch | ~ |
| | | | Keysense | ~ | ~ | 7 pin | ~ | LtBlue | (-) | Ignition switch | ~ |
| | FJ Cruiser | 07-09 | Code | ~ | ~ | 7 pin | 4 | Pink/Green | (DATA) | Ignition switch | ~ |
| | | | TXCT | ~ | ~ | 7 pin | 5 | LtGreen/Red | (DATA) | Ignition switch | ~ |
| | | | Keysense | ~ | ~ | 7 pin | ~ | Green/Yellow | (-) | Ignition switch | ~ |
| | Hiace | 06-09 | Code | ~ | ~ | 7 pin | 4 | Blue | (DATA) | Ignition switch | ~ |
| | | | TXCT | ~ | ~ | 7 pin | 5 | Yellow | (DATA) | Ignition switch | ~ |
| | | | Keysense | ~ | ~ | 7 pin | ~ | Yellow/Black | (-) | Ignition switch | ~ |
| | Highlander | 04-07 | Code | ~ | ~ | 7 pin | 4 | Gray | (DATA) | Ignition switch | ~ |
| | | | TXCT | ~ | ~ | 7 pin | 5 | White | (DATA) | Ignition switch | ~ |
| | | | Keysense | ~ | ~ | 7 pin | ~ | Green | (-) | Ignition switch | ~ |
| | Highlander | 08-10 | Code | ~ | ~ | 7 pin | 4 | Red | (DATA) | Ignition switch | ~ |
| | | | TXCT | ~ | ~ | 7 pin | 5 | LtBlue | (DATA) | Ignition switch | ~ |
| | | | Keysense | ~ | ~ | 7 pin | ~ | LtBlue | (-) | Ignition switch | ~ |
| | Hilux | 04-09 | Code | ~ | ~ | 7 pin | 4 | LtBlue/Yellow | (DATA) | Ignition switch | ~ |
| | | | TXCT | ~ | ~ | 7 pin | 5 | LtBlue/Black | (DATA) | Ignition switch | ~ |
| | | | Keysense | ~ | ~ | 7 pin | ~ | Green/Yellow | (-) | Ignition switch | ~ |
| | Land Cruiser | 03-07 | Code | ~ | ~ | 7 pin | 4 | Blue/Black | (DATA) | Ignition switch | ~ |
| | | | TXCT | ~ | ~ | 7 pin | 5 | Violet/Green | (DATA) | Ignition switch | ~ |
| | | | Keysense | ~ | ~ | 7 pin | ~ | Red/Black | (-) | Ignition switch | ~ |
| | Matrix | 05-08 | Code | ~ | ~ | 7 pin | 4 | Blue | (DATA) | Ignition switch | ~ |
| | | | TXCT | ~ | ~ | 7 pin | 5 | Green | (DATA) | Ignition switch | ~ |
| | | | Keysense | ~ | ~ | 7 pin | ~ | Blue/Black | (-) | Ignition switch | ~ |

TYPE 2 - WIRE CROSS REFERENCE CHART - 2 OF 3

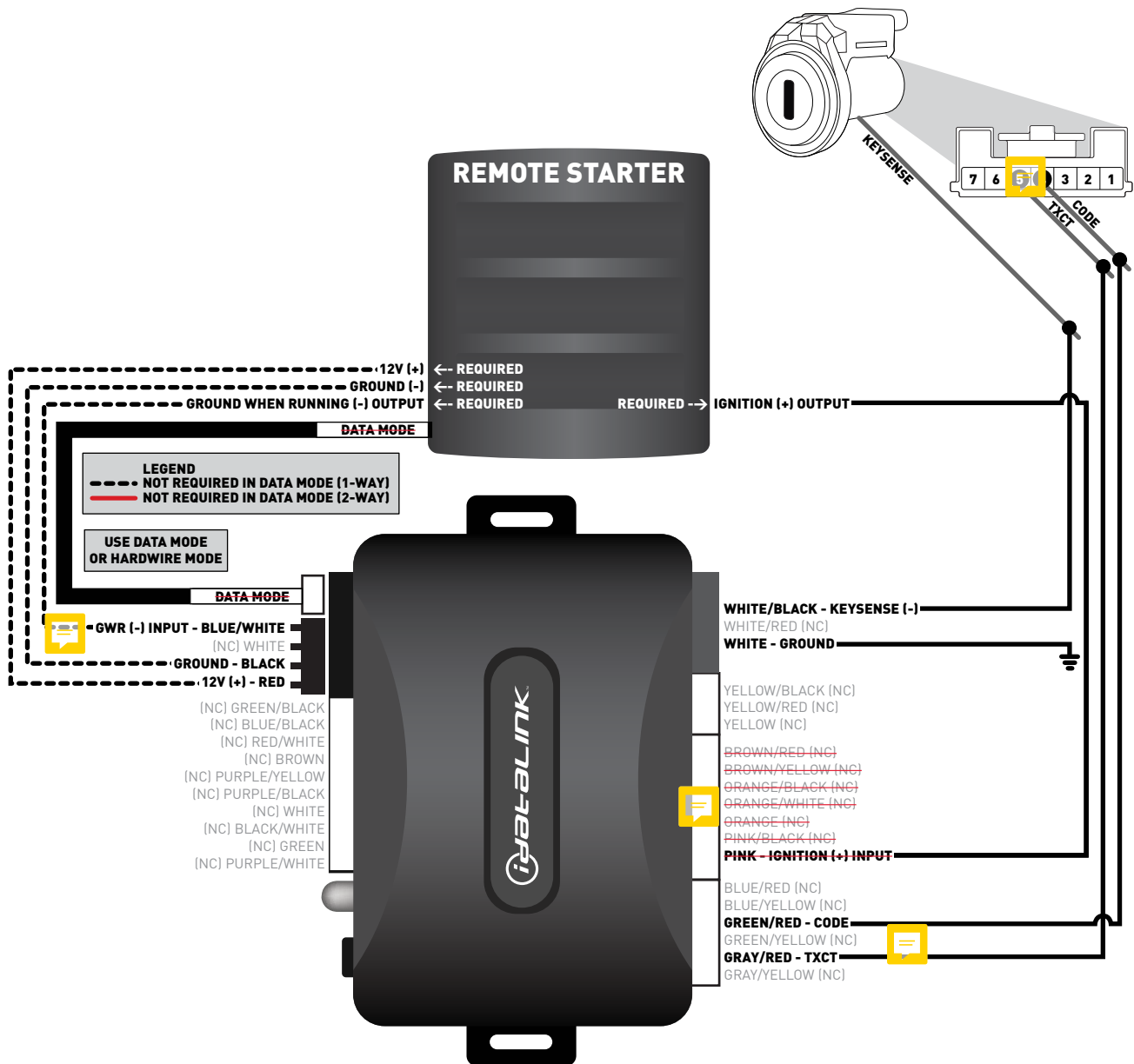
| MAKE | MODEL | YEAR | WIRE DESCRIPTION | CONNECTOR | | | POSITION | WIRE COLOR | POLARITY | MODULE LOCATION | COMPONENT LOCATOR |
|--------|----------------------|-------|------------------|-----------|-------|-------|----------|---------------|----------|-----------------|-------------------|
| | | | | NAME | COLOR | TYPE | | | | | |
| TOYOTA | Matrix | 09-10 | Code | ~ | ~ | 7 pin | 4 | LtBlue | (DATA) | Ignition switch | ~ |
| | | | TXCT | ~ | ~ | 7 pin | 5 | Beige | (DATA) | Ignition switch | ~ |
| | | | Keysense | ~ | ~ | 7 pin | ~ | Blue | (-) | Ignition switch | ~ |
| | RAV4 | 04-05 | Code | ~ | ~ | 7 pin | 4 | Blue/Red | (DATA) | Ignition switch | ~ |
| | | | TXCT | ~ | ~ | 7 pin | 5 | Pink | (DATA) | Ignition switch | ~ |
| | | | Keysense | ~ | ~ | 7 pin | ~ | Blue/Red | (-) | Ignition switch | ~ |
| | RAV4 | 06-10 | Code | ~ | ~ | 7 pin | 4 | Pink | (DATA) | Ignition switch | ~ |
| | | | TXCT | ~ | ~ | 7 pin | 5 | Green | (DATA) | Ignition switch | ~ |
| | | | Keysense | ~ | ~ | 7 pin | ~ | Blue | (-) | Ignition switch | ~ |
| | Sequoia | 08-10 | Code | ~ | ~ | 7 pin | 4 | LtGreen | (DATA) | Ignition switch | ~ |
| | | | TXCT | ~ | ~ | 7 pin | 5 | Blue | (DATA) | Ignition switch | ~ |
| | | | Keysense | ~ | ~ | 7 pin | ~ | Gray | (-) | Ignition switch | ~ |
| | Sienna | 04-10 | Code | ~ | ~ | 7 pin | 4 | Yellow | (DATA) | Ignition switch | ~ |
| | | | TXCT | ~ | ~ | 7 pin | 5 | Yellow/Red | (DATA) | Ignition switch | ~ |
| | | | Keysense | ~ | ~ | 7 pin | ~ | Blue/Black | (-) | Ignition switch | ~ |
| | Solara (Convertible) | 04-09 | Code | ~ | ~ | 7 pin | 4 | Green/White | (DATA) | Ignition switch | ~ |
| | | | TXCT | ~ | ~ | 7 pin | 5 | Blue/Yellow | (DATA) | Ignition switch | ~ |
| | | | Keysense | ~ | ~ | 7 pin | ~ | Blue | (-) | Ignition switch | ~ |
| | Solara (Coupe) | 04-09 | Code | ~ | ~ | 7 pin | 4 | Yellow | (DATA) | Ignition switch | ~ |
| | | | TXCT | ~ | ~ | 7 pin | 5 | Yellow/Red | (DATA) | Ignition switch | ~ |
| | | | Keysense | ~ | ~ | 7 pin | ~ | Blue | (-) | Ignition switch | ~ |
| | Tacoma | 05-10 | Code | ~ | ~ | 7 pin | 4 | Pink/Green | (DATA) | Ignition switch | ~ |
| | | | TXCT | ~ | ~ | 7 pin | 5 | LtGreen/Red | (DATA) | Ignition switch | ~ |
| | | | Keysense | ~ | ~ | 7 pin | ~ | Green/Black | (-) | Ignition switch | ~ |
| | Tundra | 07-09 | Code | ~ | ~ | 7 pin | 4 | LtGreen | (DATA) | Ignition switch | ~ |
| | | | TXCT | ~ | ~ | 7 pin | 5 | Blue | (DATA) | Ignition switch | ~ |
| | | | Keysense | ~ | ~ | 7 pin | ~ | Gray | (-) | Ignition switch | ~ |
| | Venza | 09 | Code | ~ | ~ | 7 pin | 4 | LtGreen | (DATA) | Ignition switch | ~ |
| | | | TXCT | ~ | ~ | 7 pin | 5 | Brown | (DATA) | Ignition switch | ~ |
| | | | Keysense | ~ | ~ | 7 pin | ~ | Brown | (-) | Ignition switch | ~ |
| | Yaris | 06-11 | Code | ~ | ~ | 7 pin | 4 | Green | (DATA) | Ignition switch | ~ |
| | | | TXCT | ~ | ~ | 7 pin | 5 | Violet | (DATA) | Ignition switch | ~ |
| | | | Keysense | ~ | ~ | 7 pin | ~ | Yellow | (-) | Ignition switch | ~ |
| LEXUS | ES 330 | 04-06 | Code | ~ | ~ | 7 pin | 4 | Green/White | (DATA) | Ignition switch | ~ |
| | | | TXCT | ~ | ~ | 7 pin | 5 | Blue/Yellow | (DATA) | Ignition switch | ~ |
| | | | Keysense | ~ | ~ | 7 pin | ~ | Blue | (-) | Ignition switch | ~ |
| | GX 470 | 03-09 | Code | ~ | ~ | 7 pin | 4 | Yellow | (DATA) | Ignition switch | ~ |
| | | | TXCT | ~ | ~ | 7 pin | 5 | Yellow/Black | (DATA) | Ignition switch | ~ |
| | | | Keysense | ~ | ~ | 7 pin | ~ | Green/Yellow | (-) | Ignition switch | ~ |
| | LS 430 | 04-06 | Code | ~ | ~ | 7 pin | 4 | Red/White | (DATA) | Ignition switch | ~ |
| | | | TXCT | ~ | ~ | 7 pin | 5 | Blue/Black | (DATA) | Ignition switch | ~ |
| | | | Keysense | ~ | ~ | 7 pin | ~ | LtGreen/Black | (-) | Ignition switch | ~ |

TYPE 2 - WIRE CROSS REFERENCE CHART - 3 OF 3

| MAKE | MODEL | YEAR | WIRE DESCRIPTION | CONNECTOR | | | POSITION | WIRE COLOR | POLARITY | MODULE LOCATION | COMPONENT LOCATOR |
|---------|--------|-------|------------------|-----------|-------|-------|----------|--------------|----------|-----------------|-------------------|
| | | | | NAME | COLOR | TYPE | | | | | |
| LEXUS | LX 470 | 03-07 | Code | ~ | ~ | 7 pin | 4 | Blue/Black | (DATA) | Ignition switch | ~ |
| | | | TXCT | ~ | ~ | 7 pin | 5 | Violet/Green | (DATA) | Ignition switch | ~ |
| | | | Keysense | ~ | ~ | 7 pin | ~ | Red/Black | (-) | Ignition switch | ~ |
| | RX 330 | 04-06 | Code | ~ | ~ | 7 pin | 4 | LtGreen | (DATA) | Ignition switch | ~ |
| | | | TXCT | ~ | ~ | 7 pin | 5 | Brown | (DATA) | Ignition switch | ~ |
| | | | Keysense | ~ | ~ | 7 pin | ~ | Black | (-) | Ignition switch | ~ |
| | RX 350 | 07-08 | Code | ~ | ~ | 7 pin | 4 | LtGreen | (DATA) | Ignition switch | ~ |
| | | | TXCT | ~ | ~ | 7 pin | 5 | Brown | (DATA) | Ignition switch | ~ |
| | | | Keysense | ~ | ~ | 7 pin | ~ | Black | (-) | Ignition switch | ~ |
| PONTIAC | Vibe | 08 | Code | ~ | ~ | 7 pin | 4 | Blue | (DATA) | Ignition switch | ~ |
| | | | TXCT | ~ | ~ | 7 pin | 5 | Green | (DATA) | Ignition switch | ~ |
| | | | Keysense | ~ | ~ | 7 pin | ~ | Blue/Black | (-) | Ignition switch | ~ |
| | Vibe | 09-10 | Code | ~ | ~ | 7 pin | 4 | LtBlue | (DATA) | Ignition switch | ~ |
| | | | TXCT | ~ | ~ | 7 pin | 5 | Beige | (DATA) | Ignition switch | ~ |
| | | | Keysense | ~ | ~ | 7 pin | ~ | Blue | (-) | Ignition switch | ~ |
| SCION | tC | 05-10 | Code | ~ | ~ | 7 pin | 4 | Yellow | (DATA) | Ignition switch | ~ |
| | | | TXCT | ~ | ~ | 7 pin | 5 | Red | (DATA) | Ignition switch | ~ |
| | | | Keysense | ~ | ~ | 7 pin | ~ | Black | (-) | Ignition switch | ~ |
| | xB | 08-10 | Code | ~ | ~ | 7 pin | 4 | LtBlue | (DATA) | Ignition switch | ~ |
| | | | TXCT | ~ | ~ | 7 pin | 5 | Beige | (DATA) | Ignition switch | ~ |
| | | | Keysense | ~ | ~ | 7 pin | ~ | LtBlue | (-) | Ignition switch | ~ |
| | xD | 08-10 | Code | ~ | ~ | 7 pin | 4 | Green | (DATA) | Ignition switch | ~ |
| | | | TXCT | ~ | ~ | 7 pin | 5 | Violet | (DATA) | Ignition switch | ~ |
| | | | Keysense | ~ | ~ | 7 pin | ~ | Yellow | (-) | Ignition switch | ~ |

TYPE 2 - WIRING DIAGRAM

STANDARD 12 VOLT, GROUND AND IGNITION SWITCH CONNECTIONS ARE STILL REQUIRED FROM THE REMOTE STARTER.



TYPE 3 - WIRE CROSS REFERENCE CHART - 1 OF 3

| MAKE | MODEL | YEAR | WIRE DESCRIPTION | CONNECTOR | | | POSITION | WIRE COLOR | POLARITY | MODULE LOCATION | COMPONENT LOCATOR |
|--------|-----------------------|-------|------------------|-----------|-------|--------|----------|--------------|----------|--------------------------------|-------------------|
| | | | | NAME | COLOR | TYPE | | | | | |
| TOYOTA | 4Runner PTS | 10 | Code | ~ | ~ | 16 pin | 10 | Violet | (DATA) | Push to Start | ~ |
| | | | TXCT | ~ | ~ | 16 pin | 9 | White | (DATA) | Push to Start | ~ |
| | | | Push to Start | ~ | ~ | 16 pin | 7 | LtGreen | (-) | Push to Start | ~ |
| | | | Ignition | A | ~ | 4 pin | 4 | White | (+) | Brake switch above brake pedal | ~ |
| | | | 12V (Brake) | A | ~ | 4 pin | 2 | Red | (+) | Brake switch above brake pedal | ~ |
| | | | Brake | A | ~ | 4 pin | 1 | Violet/Green | (+) | Brake switch above brake pedal | ~ |
| | Avalon (smartkey) | 05-09 | Code | ~ | ~ | 16 pin | 10 | White | (DATA) | Push to Start | ~ |
| | | | TXCT | ~ | ~ | 16 pin | 9 | Gray | (DATA) | Push to Start | ~ |
| | | | Push to Start | ~ | ~ | 16 pin | 7 | Blue | (-) | Push to Start | ~ |
| | | | Ignition | A | ~ | 4 pin | 3 | Brown | (+) | Brake switch above brake pedal | ~ |
| | | | 12V (Brake) | A | ~ | 4 pin | 2 | Black | (+) | Brake switch above brake pedal | ~ |
| | | | Brake | A | ~ | 4 pin | 1 | White | (+) | Brake switch above brake pedal | ~ |
| | Camry Hybrid | 07-10 | Code | ~ | ~ | 16 pin | 10 | White | (DATA) | Push to Start | ~ |
| | | | TXCT | ~ | ~ | 16 pin | 9 | Gray | (DATA) | Push to Start | ~ |
| | | | Push to Start | ~ | ~ | 16 pin | 7 | Blue | (-) | Push to Start | ~ |
| | | | Ignition | A | ~ | 4 pin | 3 | Black | (+) | Brake switch above brake pedal | ~ |
| | | | 12V (Brake) | A | ~ | 4 pin | 2 | Black | (+) | Brake switch above brake pedal | ~ |
| | | | Brake | A | ~ | 4 pin | 1 | White | (+) | Brake switch above brake pedal | ~ |
| | Camry (smartkey) | 07-10 | Code | ~ | ~ | 16 pin | 10 | White | (DATA) | Push to Start | ~ |
| | | | TXCT | ~ | ~ | 16 pin | 9 | Gray | (DATA) | Push to Start | ~ |
| | | | Push to Start | ~ | ~ | 16 pin | 7 | Blue | (-) | Push to Start | ~ |
| | | | Ignition | A | ~ | 4 pin | 3 | Black | (+) | Brake switch above brake pedal | ~ |
| | | | 12V (Brake) | A | ~ | 4 pin | 2 | Black | (+) | Brake switch above brake pedal | ~ |
| | | | Brake | A | ~ | 4 pin | 1 | Blue | (+) | Brake switch above brake pedal | ~ |
| | Corolla (smartkey) | 09-10 | Code | ~ | ~ | 16 pin | 10 | Green | (DATA) | Push to Start | ~ |
| | | | TXCT | ~ | ~ | 16 pin | 9 | LtBlue | (DATA) | Push to Start | ~ |
| | | | Push to Start | ~ | ~ | 16 pin | 7 | White | (-) | Push to Start | ~ |
| | | | Ignition | A | ~ | 4 pin | 3 | Black | (+) | Brake switch above brake pedal | ~ |
| | | | 12V (Brake) | A | ~ | 4 pin | 2 | White | (+) | Brake switch above brake pedal | ~ |
| | | | Brake | A | ~ | 4 pin | 1 | Blue | (+) | Brake switch above brake pedal | ~ |
| | Highlander (smartkey) | 08-10 | Code | ~ | ~ | 16 pin | 10 | Gray | (DATA) | Push to Start | ~ |
| | | | TXCT | ~ | ~ | 16 pin | 9 | Orange | (DATA) | Push to Start | ~ |
| | | | Push to Start | ~ | ~ | 16 pin | 7 | Pink | (-) | Push to Start | ~ |
| | | | Ignition | A | ~ | 4 pin | 3 | White | (+) | Brake switch above brake pedal | ~ |
| | | | 12V (Brake) | A | ~ | 4 pin | 2 | Violet | (+) | Brake switch above brake pedal | ~ |
| | | | Brake | A | ~ | 4 pin | 1 | Blue | (+) | Brake switch above brake pedal | ~ |
| | Highlander Hybrid | 08-10 | Code | ~ | ~ | 16 pin | 10 | Gray | (DATA) | Push to Start | ~ |
| | | | TXCT | ~ | ~ | 16 pin | 9 | Orange | (DATA) | Push to Start | ~ |
| | | | Push to Start | ~ | ~ | 16 pin | 7 | Pink | (-) | Push to Start | ~ |
| | | | Ignition | A | ~ | 4 pin | 3 | White | (+) | Brake switch above brake pedal | ~ |
| | | | 12V (Brake) | A | ~ | 4 pin | 2 | Violet | (+) | Brake switch above brake pedal | ~ |
| | | | Brake | A | ~ | 4 pin | 1 | Blue | (+) | Brake switch above brake pedal | ~ |

TYPE 3 - WIRE CROSS REFERENCE CHART - 2 OF 3

| MAKE | MODEL | YEAR | WIRE DESCRIPTION | CONNECTOR | | | POSITION | WIRE COLOR | POLARITY | MODULE LOCATION | COMPONENT LOCATOR |
|--------|-----------------|-------|------------------|-----------|-------|--------|----------|-------------|----------|--------------------------------|-------------------|
| | | | | NAME | COLOR | TYPE | | | | | |
| TOYOTA | Land Cruiser | 08-10 | Code | ~ | ~ | 16 pin | 10 | Green | (DATA) | Push to Start | ~ |
| | | | TXCT | ~ | ~ | 16 pin | 9 | LtBlue | (DATA) | Push to Start | ~ |
| | | | Push to Start | ~ | ~ | 16 pin | 7 | Black | (-) | Push to Start | ~ |
| | | | Ignition | B | ~ | 4 pin | 3 | Black | (+) | Brake switch above brake pedal | ~ |
| | | | 12V (Brake) | B | ~ | 4 pin | 2 | Blue/Black | (+) | Brake switch above brake pedal | ~ |
| | | | Brake | B | ~ | 4 pin | 1 | Red | (+) | Brake switch above brake pedal | ~ |
| | RAV4 (Smartkey) | 09-10 | Code | ~ | ~ | 16 pin | 10 | White | (DATA) | Push to Start | ~ |
| | | | TXCT | ~ | ~ | 16 pin | 9 | Blue | (DATA) | Push to Start | ~ |
| | | | Push to Start | ~ | ~ | 16 pin | 7 | White | (-) | Push to Start | ~ |
| | | | Ignition | B | ~ | 4 pin | 4 | Black | (+) | Brake switch above brake pedal | ~ |
| | | | 12V (Brake) | B | ~ | 4 pin | 2 | White | (+) | Brake switch above brake pedal | ~ |
| | | | Brake | B | ~ | 4 pin | 1 | Blue | (+) | Brake switch above brake pedal | ~ |
| LEXUS | ES 350 | 07-08 | Code | ~ | ~ | 16 pin | 10 | White | (DATA) | Push to Start | ~ |
| | | | TXCT | ~ | ~ | 16 pin | 9 | Gray | (DATA) | Push to Start | ~ |
| | | | Push to Start | ~ | ~ | 16 pin | 7 | Blue | (-) | Push to Start | ~ |
| | | | Ignition | A | ~ | 4 pin | 3 | Black | (+) | Brake switch above brake pedal | ~ |
| | | | 12V (Brake) | A | ~ | 4 pin | 2 | Black | (+) | Brake switch above brake pedal | ~ |
| | | | Brake | A | ~ | 4 pin | 1 | Blue | (+) | Brake switch above brake pedal | ~ |
| | GS 300 | 06 | Code | ~ | ~ | 16 pin | 10 | Yellow | (DATA) | Push to Start | ~ |
| | | | TXCT | ~ | ~ | 16 pin | 9 | Blue | (DATA) | Push to Start | ~ |
| | | | Push to Start | ~ | ~ | 16 pin | 7 | Pink | (-) | Push to Start | ~ |
| | | | Ignition | B | ~ | 4 pin | 3 | Black/White | (+) | Brake switch above brake pedal | ~ |
| | | | 12V (Brake) | A | ~ | 4 pin | 2 | Blue/White | (+) | Brake switch above brake pedal | ~ |
| | | | Brake | B | ~ | 4 pin | 1 | Red/Black | (+) | Brake switch above brake pedal | ~ |
| | GS 350 | 07-08 | Code | ~ | ~ | 16 pin | 10 | Yellow | (DATA) | Push to Start | ~ |
| | | | TXCT | ~ | ~ | 16 pin | 9 | Blue | (DATA) | Push to Start | ~ |
| | | | Push to Start | ~ | ~ | 16 pin | 7 | Pink | (-) | Push to Start | ~ |
| | | | Ignition | B | ~ | 4 pin | 3 | Black/White | (+) | Brake switch above brake pedal | ~ |
| | | | 12V (Brake) | B | ~ | 4 pin | 2 | Blue/White | (+) | Brake switch above brake pedal | ~ |
| | | | Brake | B | ~ | 4 pin | 1 | Red/Black | (+) | Brake switch above brake pedal | ~ |
| | GS 430 | 06-07 | Code | ~ | ~ | 16 pin | 10 | Yellow | (DATA) | Push to Start | ~ |
| | | | TXCT | ~ | ~ | 16 pin | 9 | Blue | (DATA) | Push to Start | ~ |
| | | | Push to Start | ~ | ~ | 16 pin | 7 | Pink | (-) | Push to Start | ~ |
| | | | Ignition | B | ~ | 4 pin | 3 | Black/White | (+) | Brake switch above brake pedal | ~ |
| | | | 12V (Brake) | B | ~ | 4 pin | 2 | Blue/White | (+) | Brake switch above brake pedal | ~ |
| | | | Brake | B | ~ | 4 pin | 1 | Red/Black | (+) | Brake switch above brake pedal | ~ |
| | GS 450 Hybrid | 07-08 | Code | ~ | ~ | 16 pin | 10 | Yellow | (DATA) | Push to Start | ~ |
| | | | TXCT | ~ | ~ | 16 pin | 9 | Blue | (DATA) | Push to Start | ~ |
| | | | Push to Start | ~ | ~ | 16 pin | 7 | Pink | (-) | Push to Start | ~ |
| | | | Ignition | B | ~ | 4 pin | 3 | Black/White | (+) | Brake switch above brake pedal | ~ |
| | | | 12V (Brake) | B | ~ | 4 pin | 2 | Blue/White | (+) | Brake switch above brake pedal | ~ |
| | | | Brake | B | ~ | 4 pin | 1 | Red/Black | (+) | Brake switch above brake pedal | ~ |

TYPE 3 - WIRE CROSS REFERENCE CHART - 3 OF 3

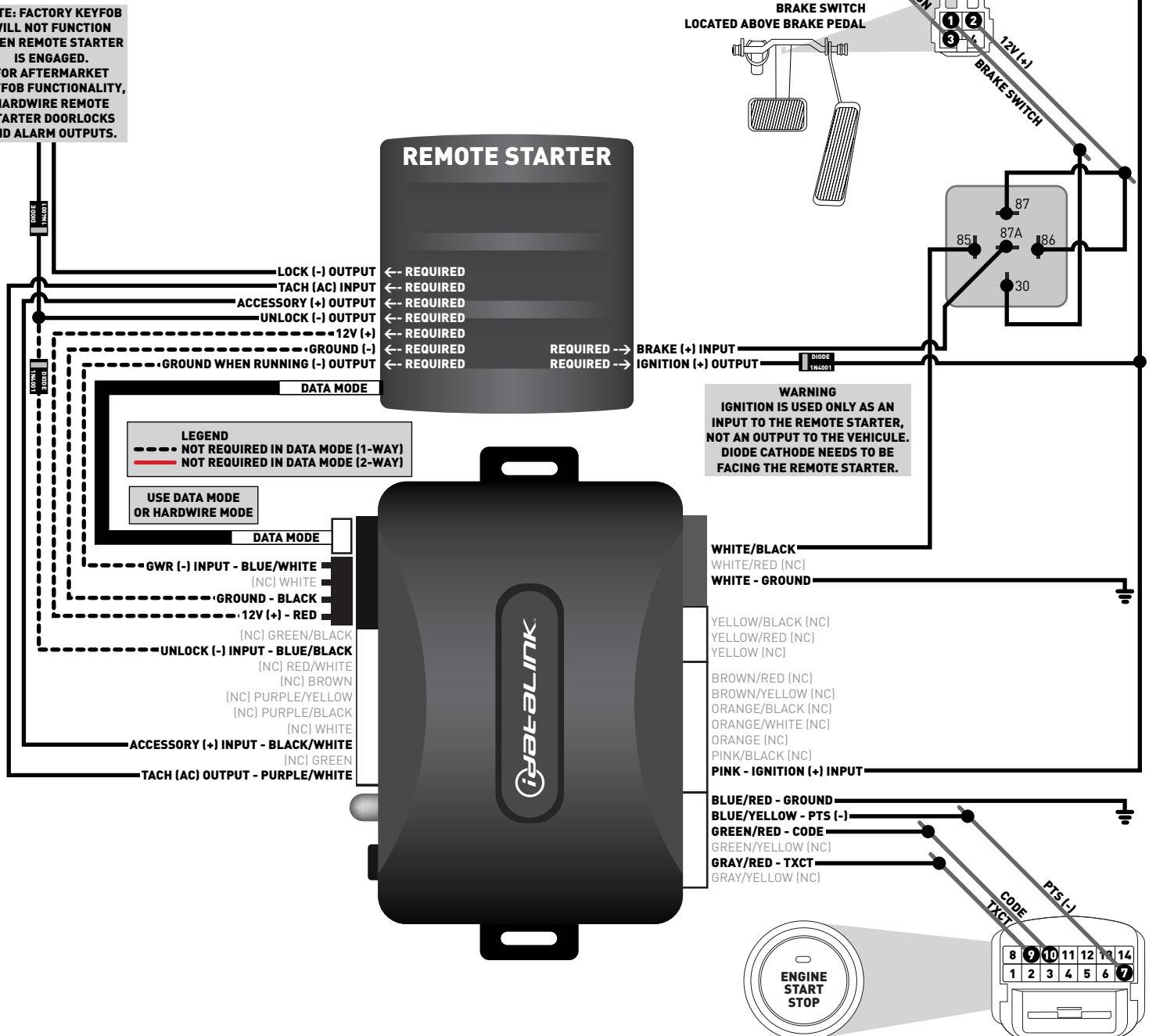
| MAKE | MODEL | YEAR | WIRE DESCRIPTION | CONNECTOR | | | POSITION | WIRE COLOR | POLARITY | MODULE LOCATION | COMPONENT LOCATOR |
|-------|---------------|-------|------------------|-----------|-------|--------|----------|-------------|----------|--------------------------------|-------------------|
| | | | | NAME | COLOR | TYPE | | | | | |
| LEXUS | GS 460 | 08 | Code | ~ | ~ | 16 pin | 10 | Yellow | (DATA) | Push to Start | ~ |
| | | | TXCT | ~ | ~ | 16 pin | 9 | Blue | (DATA) | Push to Start | ~ |
| | | | Push to Start | ~ | ~ | 16 pin | 7 | Pink | (-) | Push to Start | ~ |
| | | | Ignition | B | ~ | 4 pin | 3 | Black/White | (+) | Brake switch above brake pedal | ~ |
| | | | 12V (Brake) | B | ~ | 4 pin | 2 | Blue/White | (+) | Brake switch above brake pedal | ~ |
| | | | Brake | B | ~ | 4 pin | 1 | Red/Black | (+) | Brake switch above brake pedal | ~ |
| | IS 250 | 06-08 | Code | ~ | ~ | 16 pin | 10 | LtBlue | (DATA) | Push to Start | ~ |
| | | | TXCT | ~ | ~ | 16 pin | 9 | Blue | (DATA) | Push to Start | ~ |
| | | | Push to Start | ~ | ~ | 16 pin | 7 | Black | (-) | Push to Start | ~ |
| | | | Ignition | B | ~ | 4 pin | 4 | LtGreen | (+) | Brake switch above brake pedal | ~ |
| | | | 12V (Brake) | B | ~ | 4 pin | 2 | Blue/White | (+) | Brake switch above brake pedal | ~ |
| | | | Brake | B | ~ | 4 pin | 1 | Red/Black | (+) | Brake switch above brake pedal | ~ |
| | IS 350 | 06-08 | Code | ~ | ~ | 16 pin | 10 | LtBlue | (DATA) | Push to Start | ~ |
| | | | TXCT | ~ | ~ | 16 pin | 9 | Blue | (DATA) | Push to Start | ~ |
| | | | Push to Start | ~ | ~ | 16 pin | 7 | Black | (-) | Push to Start | ~ |
| | | | Ignition | B | ~ | 4 pin | 4 | LtGreen | (+) | Brake switch above brake pedal | ~ |
| | | | 12V (Brake) | B | ~ | 4 pin | 2 | Blue/White | (+) | Brake switch above brake pedal | ~ |
| | | | Brake | B | ~ | 4 pin | 1 | Red/Black | (+) | Brake switch above brake pedal | ~ |
| | IS-F | 08 | Code | ~ | ~ | 16 pin | 10 | LtBlue | (DATA) | Push to Start | ~ |
| | | | TXCT | ~ | ~ | 16 pin | 9 | Blue | (DATA) | Push to Start | ~ |
| | | | Push to Start | ~ | ~ | 16 pin | 7 | Black | (-) | Push to Start | ~ |
| | | | Ignition | B | ~ | 4 pin | 4 | LtGreen | (+) | Brake switch above brake pedal | ~ |
| | | | 12V (Brake) | B | ~ | 4 pin | 2 | Blue/White | (+) | Brake switch above brake pedal | ~ |
| | | | Brake | B | ~ | 4 pin | 1 | Red/Black | (+) | Brake switch above brake pedal | ~ |
| | LS 460 | 07-08 | Code | ~ | ~ | 16 pin | 10 | White | (DATA) | Push to Start | ~ |
| | | | TXCT | ~ | ~ | 16 pin | 9 | Orange | (DATA) | Push to Start | ~ |
| | | | Push to Start | ~ | ~ | 16 pin | 7 | White | (-) | Push to Start | ~ |
| | | | Ignition | B | ~ | 4 pin | 3 | Red | (+) | Brake switch above brake pedal | ~ |
| | | | 12V (Brake) | B | ~ | 4 pin | 2 | Green | (+) | Brake switch above brake pedal | ~ |
| | | | Brake | B | ~ | 4 pin | 1 | Blue | (+) | Brake switch above brake pedal | ~ |
| | LS 600 Hybrid | 08 | Code | ~ | ~ | 16 pin | 10 | White | (DATA) | Push to Start | ~ |
| | | | TXCT | ~ | ~ | 16 pin | 9 | Orange | (DATA) | Push to Start | ~ |
| | | | Push to Start | ~ | ~ | 16 pin | 7 | White | (-) | Push to Start | ~ |
| | | | Ignition | B | ~ | 4 pin | 4 | LtGreen | (+) | Brake switch above brake pedal | ~ |
| | | | 12V (Brake) | B | ~ | 4 pin | 2 | Green | (+) | Brake switch above brake pedal | ~ |
| | | | Brake | B | ~ | 4 pin | 1 | Red/Black | (+) | Brake switch above brake pedal | ~ |

TYPE 3 - WIRING DIAGRAM

REQUIRED:
1X RELAY
AND
3X DIODES WITH DOORLOCKS FEATURE
OR
2X DIODES WITHOUT DOORLOCKS

**NOTE: FACTORY KEYFOB
WILL NOT FUNCTION
WHEN REMOTE STARTER
IS ENGAGED.
FOR AFTERMARKET
KEYFOB FUNCTIONALITY,
HARDWIRE REMOTE
STARTER DOORLOCKS
AND ALARM OUTPUTS.**

WARNING
DO NOT CONNECT ANY OTHER
ACCESSORY, IGNITION OR START WIRE
FROM THE REMOTE STARTER TO THE
VEHICLE. THE INTERFACE MODULE
IS HANDLING THE REQUIRED VEHICLE
POWER AND START SEQUENCE FROM
THE PUSH TO START BUTTON CIRCUIT.



TYPE 4 - WIRE CROSS REFERENCE CHART

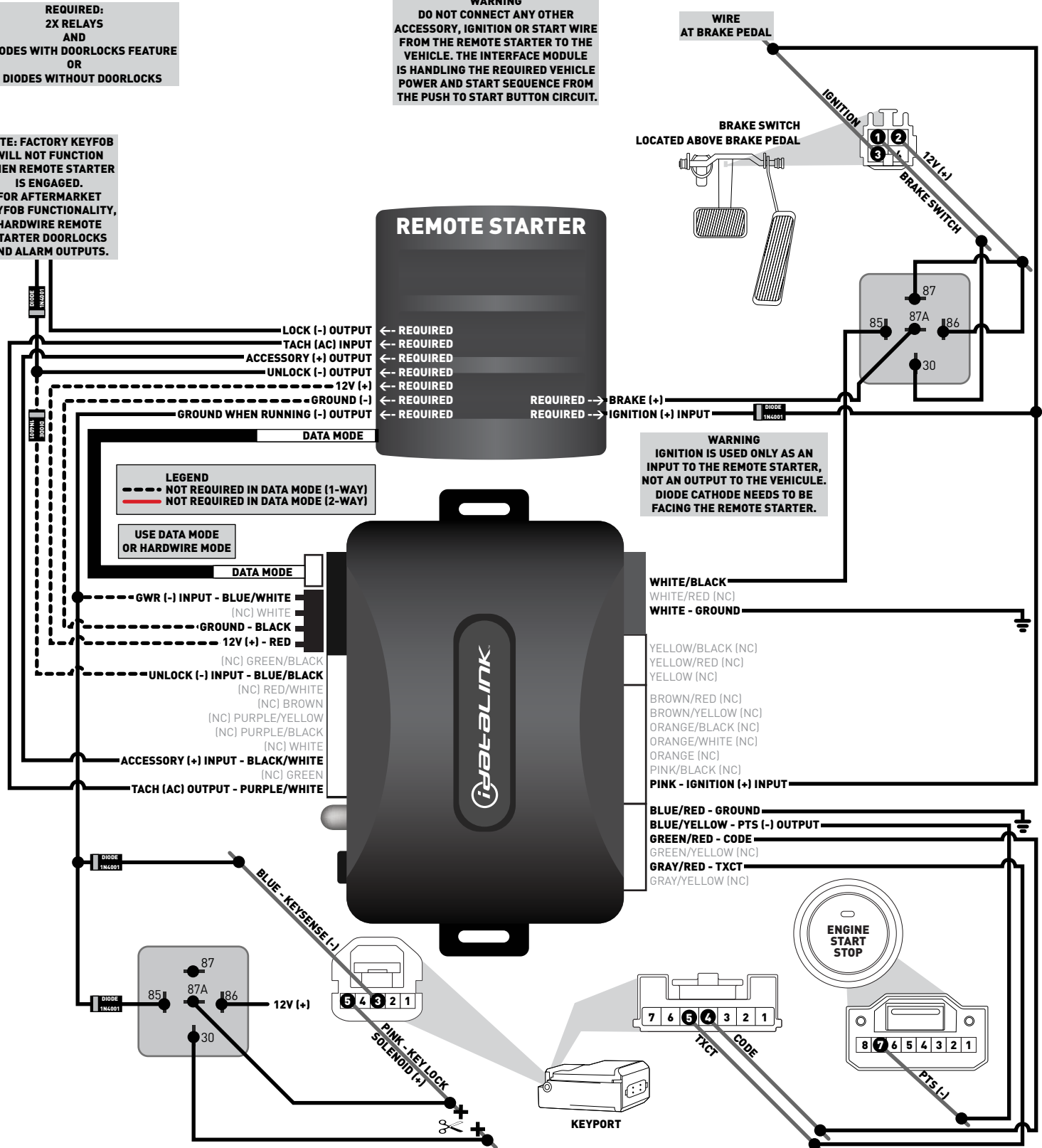
| MAKE | MODEL | YEAR | WIRE DESCRIPTION | CONNECTOR | | | POSITION | WIRE COLOR | POLARITY | MODULE LOCATION | COMPONENT LOCATOR |
|--------|-------|-------|------------------|-----------|-------|-------|----------|------------|----------|-------------------|-------------------|
| | | | | NAME | COLOR | TYPE | | | | | |
| TOYOTA | Prius | 04-10 | Code | ~ | ~ | 7 pin | 4 | Blue | (DATA) | At Key Port | ~ |
| | | | TXCT | ~ | ~ | 7 pin | 5 | LtGreen | (DATA) | At Key Port | ~ |
| | | | Push to Start | ~ | ~ | 8 pin | 7 | Yellow | (-) | At Start Button | ~ |
| | | | Ignition | A | ~ | 4 pin | 3 | Orange | (+) | Above Brake Pedal | ~ |
| | | | 12V (Brake) | A | ~ | 4 pin | 2 | Black | (+) | Above Brake Pedal | ~ |
| | | | Brake | A | ~ | 4 pin | 1 | Blue | (+) | Above Brake Pedal | ~ |

TYPE 4 - WIRING DIAGRAM

REQUIRED:
2X RELAYS
AND
5X DIODES WITH DOORLOCKS FEATURE
OR
3X DIODES WITHOUT DOORLOCKS

WARNING
DO NOT CONNECT ANY OTHER
ACCESSORY, IGNITION OR START WIRE
FROM THE REMOTE STARTER TO THE
VEHICLE. THE INTERFACE MODULE
IS HANDLING THE REQUIRED VEHICLE
POWER AND START SEQUENCE FROM
THE PUSH TO START BUTTON CIRCUIT.

**NOTE: FACTORY KEYFOB
WILL NOT FUNCTION
WHEN REMOTE STARTER
IS ENGAGED.
FOR AFTERMARKET
KEYFOB FUNCTIONALITY,
HARDWIRE REMOTE
STARTER DOORLOCKS
AND ALARM OUTPUTS.**

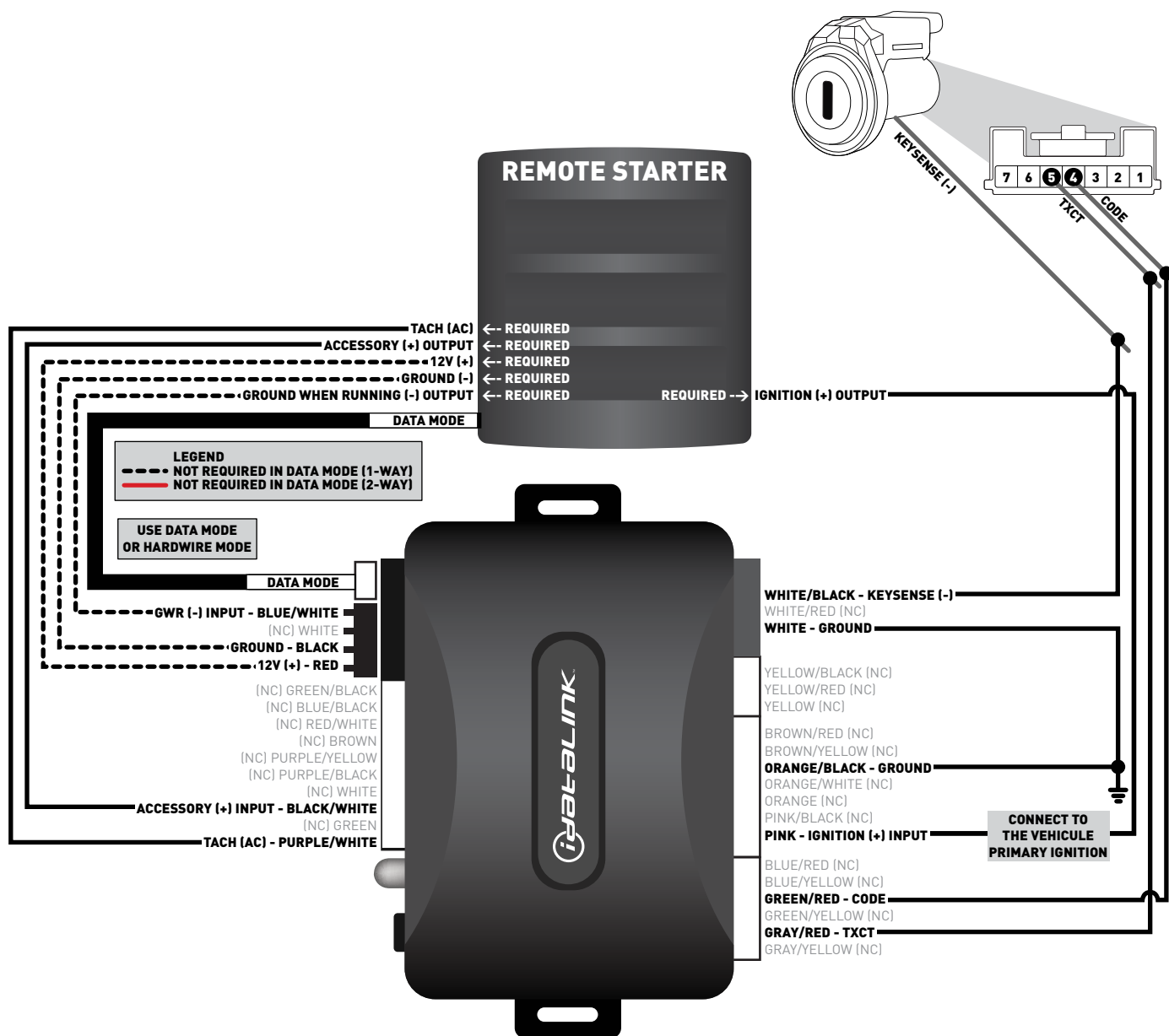


TYPE 5 - WIRE CROSS REFERENCE CHART

| MAKE | MODEL | YEAR | WIRE DESCRIPTION | CONNECTOR | | | POSITION | WIRE COLOR | POLARITY | MODULE LOCATION | COMPONENT LOCATOR |
|--------|-------------------|-------|------------------|-----------|-------|-------|----------|------------|----------|-----------------|-------------------|
| | | | | NAME | COLOR | TYPE | | | | | |
| TOYOTA | Highlander Hybrid | 06-07 | Code | ~ | ~ | 7 pin | 4 | Gray | (DATA) | Ignition switch | ~ |
| | | | TXCT | ~ | ~ | 7 pin | 5 | LtBlue | (DATA) | Ignition switch | ~ |
| | | | Keysense | ~ | ~ | ~ | ~ | Green | (-) | Ignition switch | ~ |
| | | | Accessory | C | ~ | 8 pin | 4 | Green | (+) | Ignition switch | ~ |
| LEXUS | RX 400 Hybrid | 06-08 | Code | ~ | ~ | 7 pin | 4 | LtGreen | (DATA) | Ignition switch | ~ |
| | | | TXCT | ~ | ~ | 7 pin | 5 | Brown | (DATA) | Ignition switch | ~ |
| | | | Keysense | ~ | ~ | ~ | ~ | Black | (-) | Ignition switch | ~ |
| | | | Accessory | C | ~ | 8 pin | 4 | Green | (+) | Ignition switch | ~ |

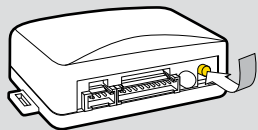
TYPE 5 - WIRING DIAGRAM

STANDARD 12 VOLT, GROUND AND IGNITION SWITCH CONNECTIONS ARE STILL REQUIRED FROM THE REMOTE STARTER.



INSTALLATION MODE SELECTION

1



Press and release programming button to select installation mode.

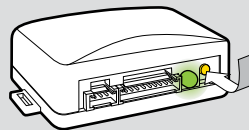


LED flashes (1X) once = DATA MODE

LED flashes (2X) twice = **STANDARD HARDWARE MODE**



2



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

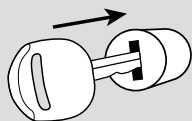


After registration, follow Factory Reset Procedure to change installation mode and restart this procedure.



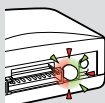
TYPE 1, 2 & 5 - MODULE PROGRAMMING PROCEDURE - REGULAR KEY

1



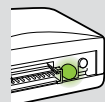
Insert key into ignition.
(OR insert key into keyport)

2



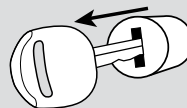
LED will flash GREEN and RED.

3



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

4



Remove key.
(OR remove key from keyport)

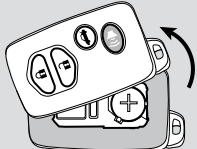
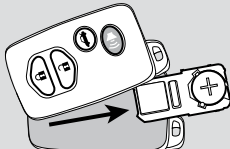
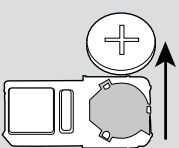
5

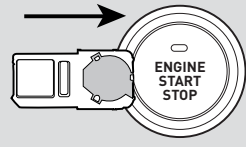
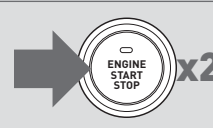
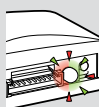
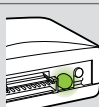

Module Programming Procedure completed.

TYPE 3 - MODULE PROGRAMMING PROCEDURE - SMARTKEY PUSH TO START

NOTE

- I When programming, only one key fob will be used. The other one must be located at least 10 feet away from the vehicle.

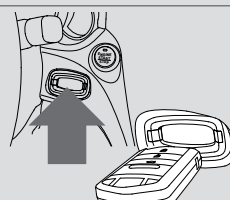
- 1  Open key fob.
- 2  Remove circuit board from key fob.
- 3  Remove battery from circuit board.

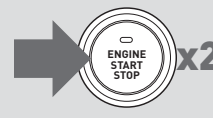
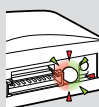
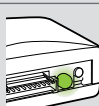

- 4  Place circuit board in front of push to start button.
- 5  Push start button twice [2x] to ON position.
- 6  LED will flash GREEN and RED.
- 7  Wait, LED will turn solid GREEN for **2 seconds**.
- 8  Module Programming Procedure completed.

TYPE 4 - MODULE PROGRAMMING PROCEDURE - NON-RFID PUSH TO START

NOTE

- I When programming, only one key fob will be used. The other one must be located at least 10 feet away from the vehicle.

- 1  Insert keyfob in keyport.

- 2  Push start button twice [2x] to ON position.
- 3  LED will flash GREEN and RED.
- 4  Wait, LED will turn solid GREEN for **2 seconds**.
- 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.

PUSH TO START VEHICLE TAKE OVER PROCEDURE - TO THE VEHICLE OWNER

NOTE

- I This procedure is to be followed during remote starter runtime prior to entering vehicle.
- II Do not attempt to remote start the vehicle when the OEM RFID FOB's are in the vehicle.



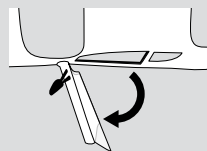
TIME RESTRICTION COMING UP !

1



Press UNLOCK on after-market remote.

2



TIME RESTRICTION

Within 45 SECONDS from previous step:

Open vehicle door.

Enter vehicle.

Close vehicle door.

Press and release BRAKE pedal.

3

Push to Start vehicle take over procedure completed.



Failure to follow procedure within time restriction will result in vehicle engine shutdown.