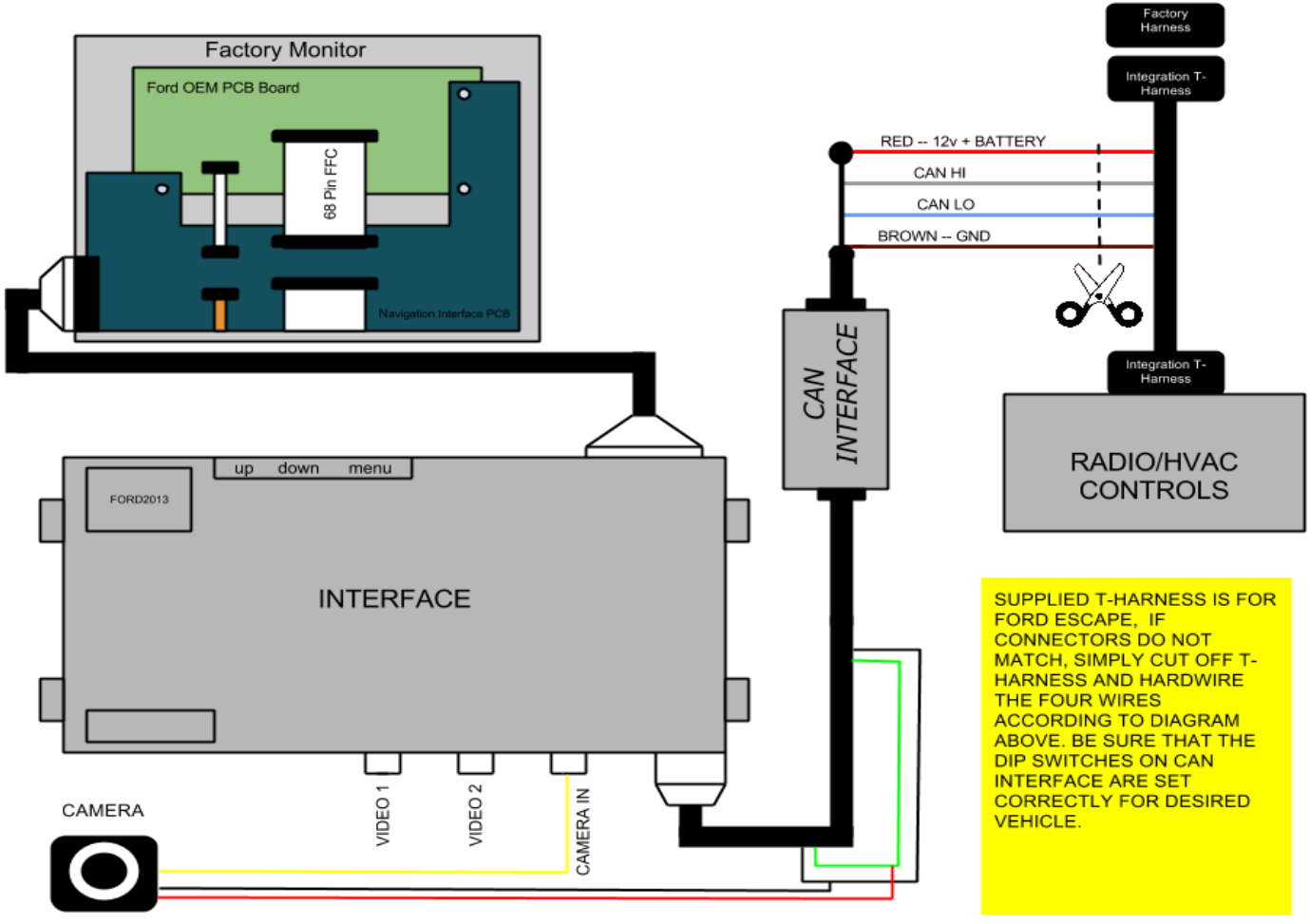
# 250-8413

# INSTALLATION MANUAL

## APPLICATIONS:

### MY FORD TOUCH UNITS WITH 8” TOUCH SCREEN

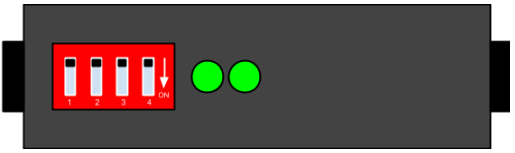
**This manual shows the install into a ford edge. Other vehicle disassembly will vary**


Factory Monitor
Ford OEM PCB Board
68 Pin FFC
Navigation Interface PCB
Factory Harness
Integration T-Harness
RED -- 12v + BATTERY
CAN HI
CAN LO
BROWN -- GND
CAN INTERFACE
Integration T-Harness
RADIO/HVAC CONTROLS
up down menu
FORD2013
INTERFACE
CAMERA
VIDEO 1
VIDEO 2
CAMERA IN
SUPPLIED T-HARNESS IS FOR FORD ESCAPE, IF CONNECTORS DO NOT MATCH, SIMPLY CUT OFF T-HARNESS AND HARDWIRE THE FOUR WIRES ACCORDING TO DIAGRAM ABOVE. BE SURE THAT THE DIP SWITCHES ON CAN INTERFACE ARE SET CORRECTLY FOR DESIRED VEHICLE.

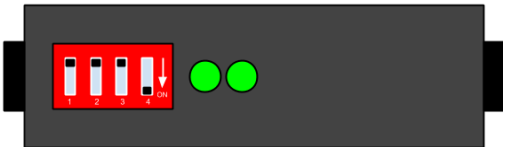
- THE CANBUS INTERFACE CAN SUPPLY POWER AND GROUND TO THE ADDED DEVICES SUCH AS THE REVERSE CAMERA. THE MAXIMUM OUTPUT FOR THESE IS 1 AMP. IF THE DEVICE THAT YOU PLAN TO USE DRAWS MORE CURRENT THAN THIS, IT WILL BE NECISSARY TO USE A RELAY .

| **CAN INTERFACE 6 PIN HARNESS** | |
|---|---|
| RED | CAN GENERATED 12V ACC (MAX 1amp) |
| YELLOW | 12V BATTERY (MAX 1 amp) |
| BLACK | GROUND |
| GREEN | CAN GENERATED REVERSE 12V (MAX 1 amp) |
| GREY | NOT USED |
| WHITE | NOT USED |

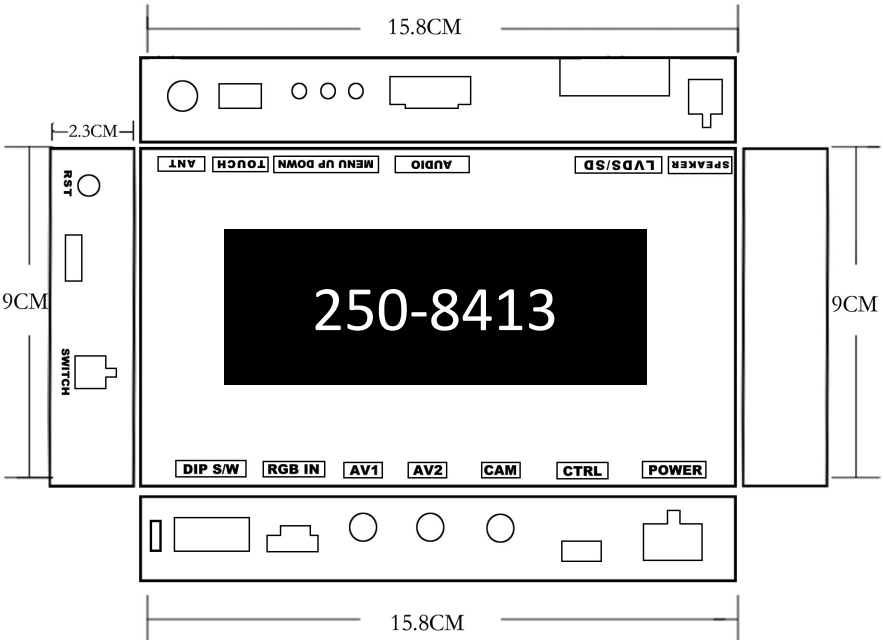
# DIP SWITCH SETTINGS



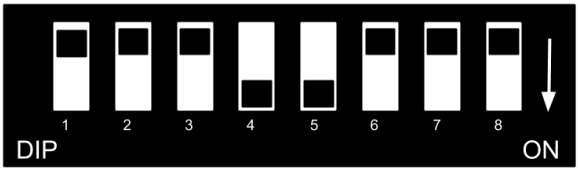

ESCAPE, FUSION, C-MAX, FOCUS




EDGE, EXPLORER, FLEX, TAURUS, MKS, MKX, MKZ, MKT, F-SERIES



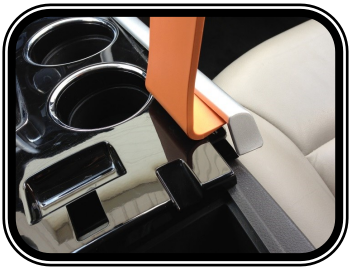

- NOT ALL HARNESSES WILL BE USED IN TYPICAL INSTALLATION, SUCH AS AUDIO RCA HARNESS AND MOMENTARY SWITCH.



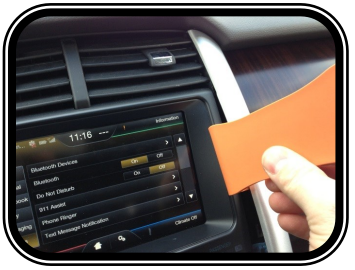

# INTERFACE

# DIP SWITCH SETTINGS

| DIP | DOWN | UP |
|---|---|---|
| 1 | RGB (NAVI) INPUT ON | **RGB (NAVI) INPUT OFF** |
| 2 | VIDEO 1 ON | **VIDEO 1 OFF** |
| 3 | VIDEO 2 ON | **VIDEO 2 OFF** |
| 4 | **RGB RES 800X480 HD** | RGB RES 480X234 |
| 5 | **GREEN WIRE TRIGGER TO CAMERA INPUT** | GREEN WIRE TRIGGER TO OEM DISPLAY |
| 6 | NO FUNCTION | **NORMAL OPERATION (DEFAULT)** |
| 7 | NO FUNCTION | **NORMAL OPERATION (DEFAULT)** |
| 8 | NO FUNCTION | **NORMAL OPERATION (DEFAULT)** |



- USING A PLASTIC PRY TOOL, PULL UP ON THE TRIM BEZEL FROM THE BACK SIDE RELEASING IT FROM THE CENTER CONSOLE. BE CAREFUL NOT TO SCRATCH THE PIANO BLACK COATING, IT SCRATCHES EASILY.

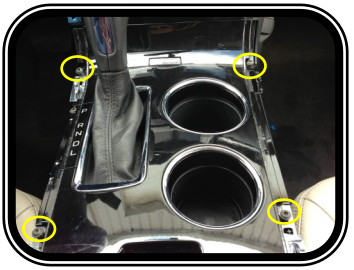



- ONCE THE BOTTOM OF THE BEZEL IS FREE, MOVE TO THE TOP RELEASING THE CLIPS UNTIL THE ENTIRE BEZEL IS FREE.

- REMOVE THE BEZEL FROM THE DASH AND PLACE IN A SAFE PLACE . THE COATING ON THE BEZEL WILL SCRATCH EASILY SO BE CAREFUL.

- REPEAT FOR THE OTHER SIDE.

*FORD EDGE DISASSEMBLY SHOWN, OTHER VEHICLES WILL VARY

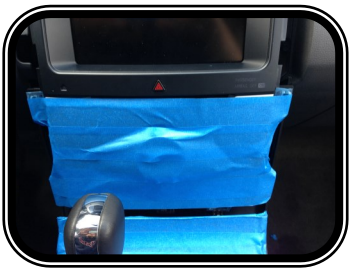


- REMOVE FOUR T-20 TORX FROM SHIFTER BEZEL. THERE ARE TWO BESIDE THE “PRNDL” ICONS THAT DO NOT NEED TO BE REMOVED.

- USING PLASTIC PRY TOOL PULL UP FROM THE BACKSIDE TO RELEASE THE CLIPS UNDERNEATH.

- PULL THE PANEL GENTLY TO RELEASE ALL CLIPS FROM THE BACKSIDE. BE CAREFUL NOT TO PULL TOO HARD AS THERE ARE STILL TWO CLIPS ON THE FRONSIDE OF THE PANEL ATTACHING IT TO THE RADIO FACEPLATE.


- HERE IS A PICTURE OF THE TWO CLIPS ON THE FRONTSIDE OF THE SHIFTER BEZEL. NOTICE WE TAPED THE ENTIRE CONSOLE TO PREVENT ANY SCRATCHES.



- IT IS A GOOD IDEA TO TAPE THE ENTIRE RADIO FACE AT THIS POINT TO PREVENT SCRATCHES.

- REMOVE FOUR 7MM SCREWS HOLDING RADIO FACE AND LCD FACIA. THEY ARE ONE PIECE. THERE IS NO NEED TO REMOVE THE TWO 7MM SCREWS BESIDE THE AIR VENTS.

- CAREFULLY PULL ON LCD FACIA FROM TOP TO REMOVE IT FROM THE DASH.

- FACIA REMOVED.

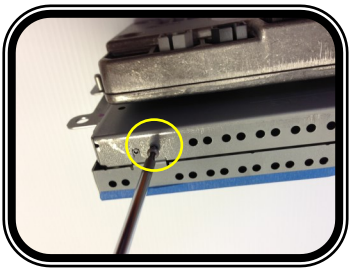
- UNPLUG 5 PIN CONNECTOR FROM RADIO FACEPLATE BEZEL.SET RADIO FACEPLATE BEZEL IN A SAFE PLACE TO PREVENT SCRATCHING.

- REMOVE FOUR 7MM SCREWS HOLDING THE LCD IN PLACE. IT WOULD ALSO BE A GOOD TIME TO TAPE THE FACE OF THE LCD TO PREVENT SCRATCHES TO THE TOUCHLAYER DURING THE NEXT STEPS OF THE INSTALLATION.

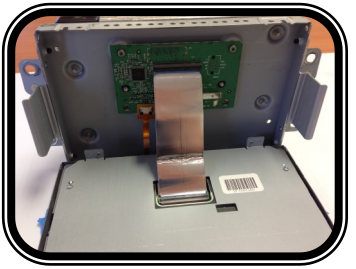
- USING A PIC TOOL, PRESS THE RELEASE CLIP TO ALLOW THE LOCKING MECHANISM OF THE MAIN HARNESS TO SLIDE OVER, RELEASING THE PLUG. UNPLUG THE USB.

- LCD REMOVED.

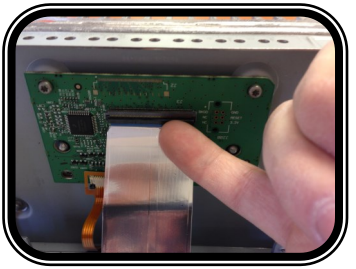
***THE FOLLOWING IS INSTRUCTION FOR INSTALLATION OF THE DAUGHTER BOARD INTO THE EDGE, FLEX, TAURUS, F-F150 AND LINCOLN VEHICLES. IF YOUR FORD MONITOR DOES NOT MATCH THESE DISASSEMBLY INSTRUCTIONS, PLEASE SKIP FORWARD IN THE MANUAL TO THE NEXT SET OF MONITOR DAUGHTER BOARD INSTALL INSTRUCTIONS. (ESCAPE, FUSION, FOCUS, AND C-MAX)***



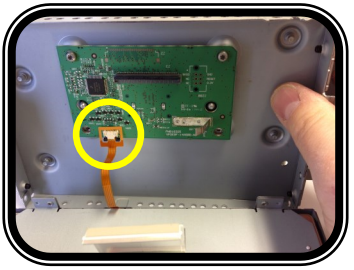
- MOVE THE LCD TO A CLEAN WORK AREA, TO INSTALL THE PCB. WITH THE LCD FACE DOWN, REMOVE FOUR T10 TORX FROM SIDES OF CASE.



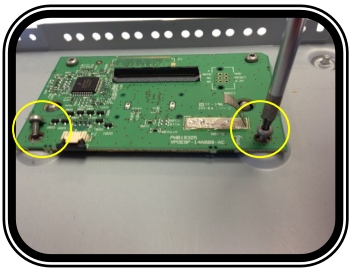
- GENTLY OPEN CASE, BE CAREFUL AS THERE ARE RIBBON CABLES CONNECTING THE TWO SIDES.



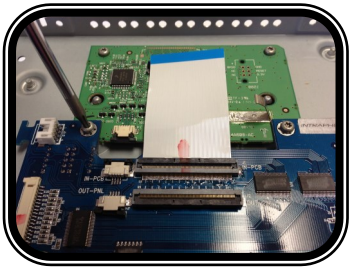
- RELEASE THE LOCKING CLIP FROM THE FLAT RIBBON CABLE USING YOUR FINGER NAIL OR A PIC TOOL. DO NOT DAMAGE THE RIBBON CABLE.



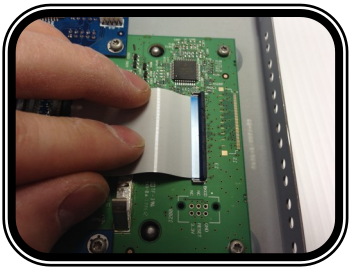
- USING FINGERNAIL OR PIC TOOL PULL BACK THE BLACK LOCKING TABS OF THE TOUCH LAYER RIBBON CABLE. REMOVE THE RIBBON CABLE FROM CONNECTOR.



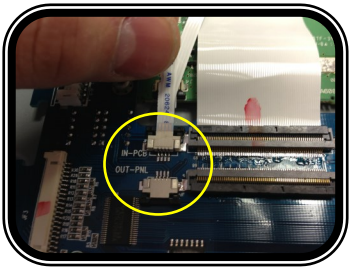
- REMOVE TWO T10 TORX FROM THE FACTORY PCB ON THE SIDE WITH THE TOUCH RIBBON CONNECTOR.



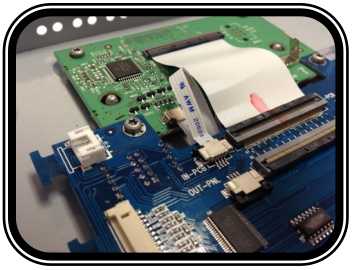
- ALIGN INTRAPHEX PROVIDED PCB TO THE TWO HOLES AND REPLACE THE TWO T10 TORX SECURING THE INTRAPHEX PCB.



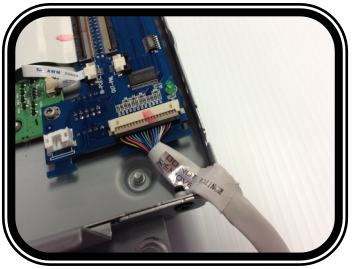
- INSERT INTRAPHEX PROVIDED RIBBON CABLE INTO THE FACTORY CONNECTOR WHERE YOU REMOVED THE ORIGINAL LCD RIBBON CABLE EARLIER. BE SURE TO INSERT THE NEW CABLE DEEPLY AS THERE ARE EXTRA GROUND PINS. CLOSE LOCKING TAB.



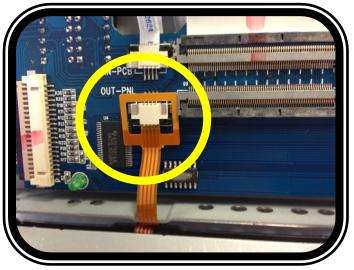

- NOW INSERT THE 4 PIN TOUCH CABLE JUMPER FROM THE FACTORY PCB LOCATION TO THE INTRAPHEX PCB LOCATION. MAKE SURE THAT THE CONTACTS OF THE CABLE FACE UPWARD. LOCK BOTH CONNECTORS FIRMLY.



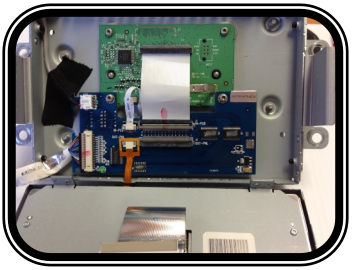
- VIEW OF 4 PIN TOUCH RIBBON TUCKED AWAY UNDER PCB.



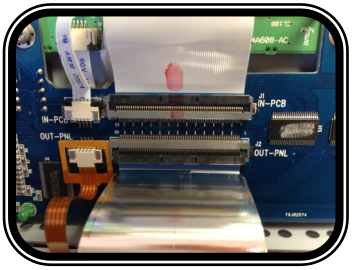
- NEXT, PLUG IN CABLE TO PCB IF NOT ALREADY DONE. BE SURE TO PLUG SIDE LABELED “MONITOR SIDE” TO THE PCB. ROUTE THE CABLE OUT THE LOWER CORNER. THERE WILL BE NO NEED TO MODIFY THE CASE AS THERE IS ENOUGH ROOM FOR THE HARNESS TO PASS THROUGH IN THE CORNER.



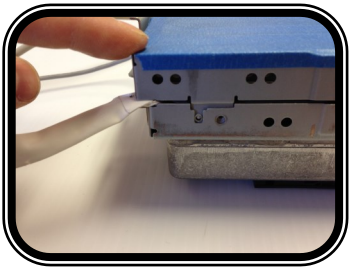

- REPLACE THE FACTORY 4 PIN TOUCH RIBBON CABLE TO THE OPEN CONNECTOR ON THE INTRAPHEX PCB. MAKE SURE THE CONTACTS FACE UPWARD. PUSH BLACK LOCKING TABS IN TO SECURE IT.



- NOW TO PUT THE LCD BACK TOGETHER. ARRANGE THE MONITOR FRONT AND BACK WHERE IT WILL BE EASY TO PLUG IN THE ORIGINAL RIBBON CABLES TO THE INTRAPHEX PCB.



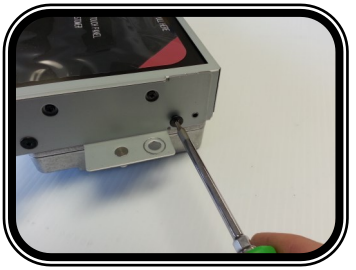

- REPLACE FACTORY LCD RIBBON CABLE INTO THE OPEN CONNECTOR ON THE INTRAPHEX PCB. BE SURE TO INSERT IT DEEPLY AND STRAIGHT. PUSH LOCKING TAB DOWN TO LOCK IT IN PLACE.



- NOW PUT THE TOW SIDES BACK TOGETHER MAKING SURE THAT ALL RIBBON CABLES ARE INSIDE OF CASE AND NOT GETTING PINCHED. THE CABLE EXITING THE CASE SHOULD EXIT ON THE CORNER AS SHOWN.

# FUSION, FOCUS, C-MAX, ESCAPE

## MONITOR DISASSEMBLY AND PCB INSTALL

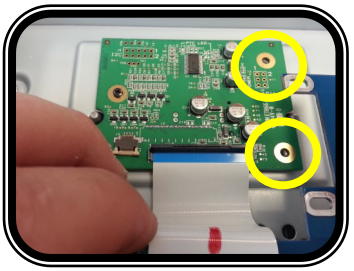


- REMOVE TWO TORX 8 SREWS FROM EACH SIDE, HOLDING THE BRACKETS TO THE SIDE OF THE MONITOR.

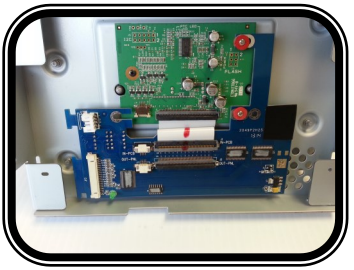
- REMOVE FOUR #1 PHILLIPS FROM TOP AND BOTTOM OF METAL TRIM BEZEL SURROUNDING THE MONITOR. REMOVE BEZEL. **BE CAREFUL NOT TO SCRATCH THE TOUCH LAYER WITH THE BEZEL.**

- REMOVE TWO #1 PHILLIPS FROM EACH SIDE HOLDING THE LCD.

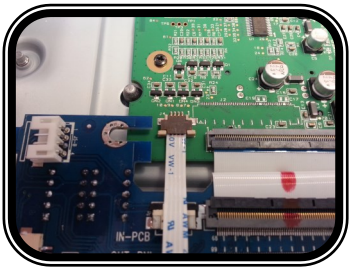
- REMOVE LCD, BE CAREFUL WHEN UNPLUGGING THE FFC CABLE AND THE 4 PIN FLAT TOUCH CABLE



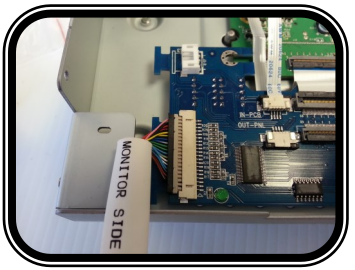
- REMOVE TWO #1 PHILLIPS. INSERT FFC RIBBON CABLE FROM INTRAPHEX PROVIDED PCB TO FACTORY FFC CONNECTOR ON FACTORY PCB. BE SURE TO INSERT IT EVENLY AND ALL THE WAY INTO THE SOCKET.



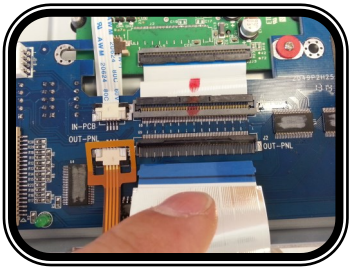
- ALLIGN PCB AND SECURE IT DOWN WITH INTRAPHEX PROVIDED SCREWS AND RED WASHERS. CAREFULLY FOLD FFC CABLE UNDER THE PCB TO ALLOW MORE ROOM FOR REST OF INSTALL.




- INSERT THE INTRAPHEX PROVIDED 4 PIN FFC TOUCH CABLE INTO THE FACTORY PCB AND TO THE INTRAPHEX PCB. **BE SURE THE CONTACTS FACE UPWARDS.**




- PLUG IN INTERFACE CONNECTOR TO THE PCB.




- INSERT FACTORY LCD RIBBON AND TOUCH CABLE TO INTRAPHEX CONNECTORS AS SHOWN. BE CAREFUL NOT TO STRESS THE FFC CONNECTORS.

- REINSTALL THE LCD PANEL, ROUTING THE INTERFACE CONNECTOR OUT OF THE ASSEMBLY AS SHOWN.

- REPLACE THE SCREWS REMOVED EARLIER HOLDING THE LCD.

- REPLACE ALL REMOVED BEZELS AND BRACKETS AND REINSTALL

# T-HARNESS INSTALLATION

- THE SUPPLIED T-HARNESS IS DESIGNED FOR FORD ESCAPE, IF YOUR T-HARNESS PLUGS DO NOT MATCH THEN YOU WILL NEED TO CUT THE T-HARNESS AND HARDWIRE THE FOUR WIRES COMING FROM THE CAN INTERFACE DIRECTLY TO THE VEHICLE'S FACTORY HARNESS.
- THESE CONNECTIONS WILL BE MADE AT THE RADIO/HVAC CONTROL

| | |
|---|---|
| RED | POWER |
| BROWN | GROUND |
| BLUE | CAN LOW |
| GREY | CAN HIGH |

- NO DAMAGE CAN OCCUR TO CANBOX DUE TO INCORRECT HI/LOW CANBUS CONNECTIONS. IF CONNECTED CORRECTLY ONE LED ON THE CANBOX WILL LIGHT SOLID AND THE OTHER WILL FLASH RAPIDLY.
- USE A DIGITAL MULTIMETER TO TEST THE FACTORY WIRES BEFORE CONNECTION.