Instruction Sheet   IS-25003A
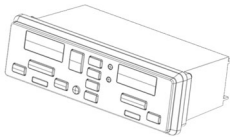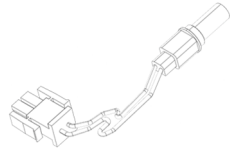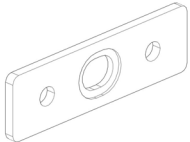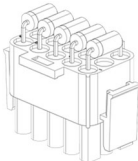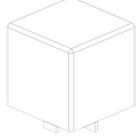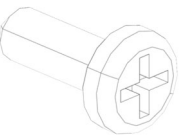
HVAC CONTROL MODULE REPLACMENT H3 FROM W-2285 UP TO 3-4758

Revision: A   Added appendices A, B and C   04-04-2025

MATERIAL

Kit #IS25003 includes the following parts:

Part No	Description		Qty
871373	DASH HVAC CONTROL MODULE		1
563063	SENSOR, TEMPERATURE THERMISTOR		1
3202184			1
7772095	HARNESS INTERFACE DASHBOARD		1
7772096	HARNESS REAR JUNCTION BOX		1
7772097	HARNESS SENSOR		1
381145	CONNECTOR WITH 5 DIODES		1
563332	RELAY, 24V WITH RESISTOR		5
504013	CABLE TIE MOUNT, BLACK		3
500443	SCREW TP PAN PH N500 #8X1/2		5

504637	CABLE TIE, NYLON BLACK (STD)		40
IS-25003	INSTRUCTION SHEET		1
FI-25003	FEUILLE D'INSTRUCTION		1

Other parts that may be required:

Part No.	Description	Qty
560784	SHRINKTUBING	AR

NOTE
Material can be obtained through regular channels.

SAFETY PRECAUTIONS

- Eye protection should always be worn when working in a shop.

- Rules for Personal Protection Equipment should always be respected. Wear your PPE including but not limited to the following:

Safety First!

PROCEDURE

> ⚠️ **DANGER**
>
> Park vehicle safely, apply parking brake, stop engine. Prior to working on the vehicle, set the ignition switch to the OFF position and trip the main circuit breakers equipped with a trip button. On Commuter type vehicles, set the battery master switch (master cut-out) to the OFF position.
>
> Lock out & Tag out (LOTO) must be performed during set-up, maintenance or repair activities. Refer to your local procedure for detailed information regarding the control of hazardous energy.

VERIFICATION OF THE WATER VALVE

1. Open the evaporator compartment door.
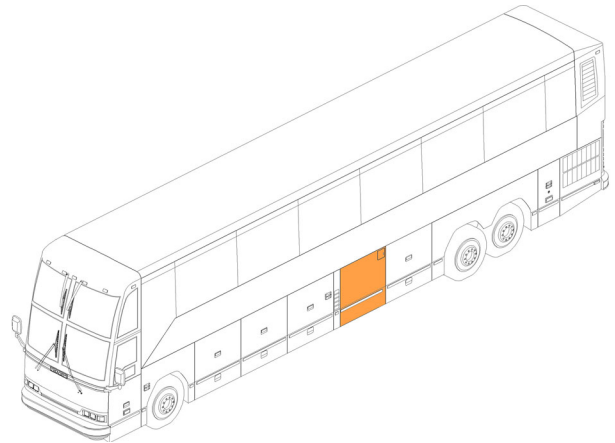
2. Verify the water valve model:
    -   If you have the old water valve model, you need replace order the conversion 374835 kit.
    -   If you have the new water model, this is ok.

OLD

NEW
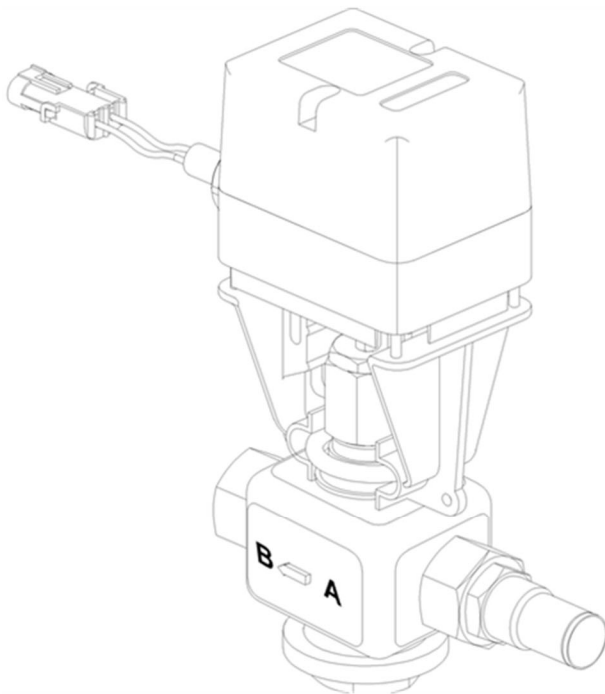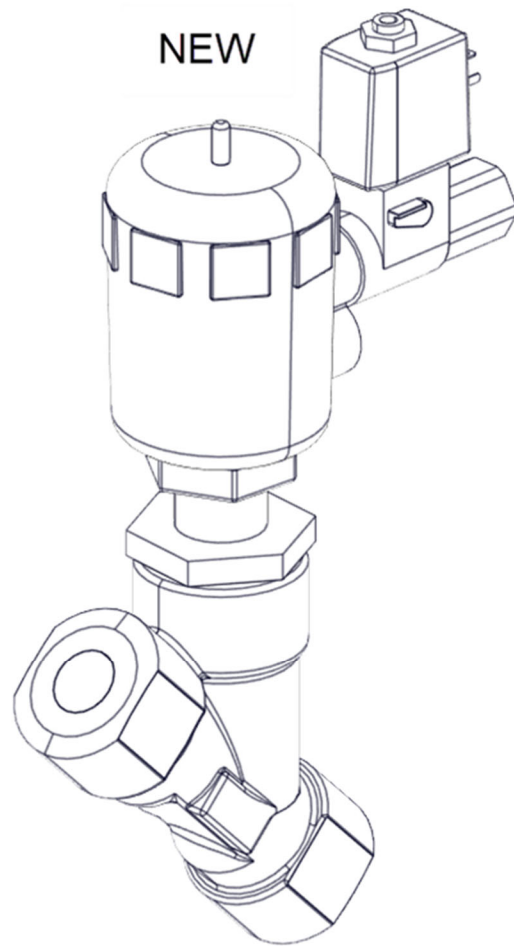
REAR JONCTION BOX MODIFICATION

1. Open left rear service compartment door.
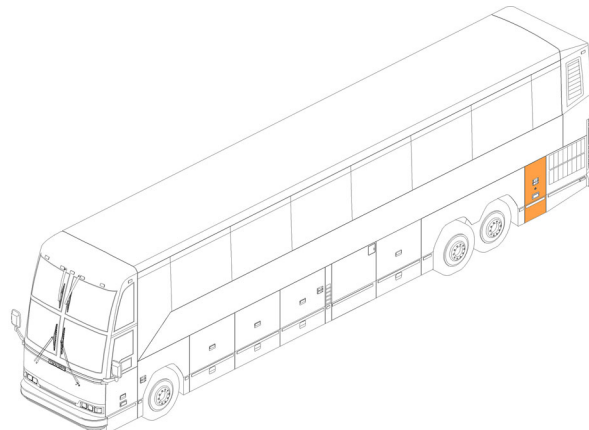
2. Disconnect the connectors **C58** and **C59** from the A/C control panel.

3. Remove the nuts (2x) and the washers (2x) and remove the panel.
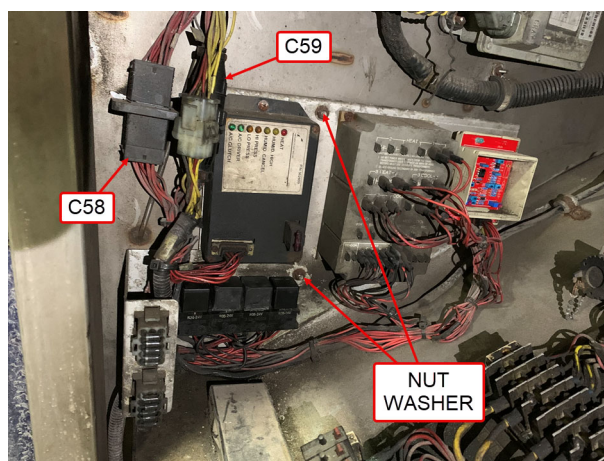
4. Remove all components of the A/C control panel.
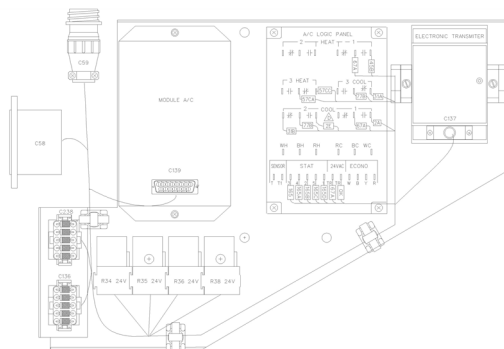
5. Install the new harness 7772096 on the A/C control panel.

6. Mark the position of the relay connectors and drill two holes Ø1/8".

7. Secure the relay connectors (5x) with the screw 500443 (2x).

8. Mark the position of the cable tie supports and drill two holes Ø1/8".

9. Install the cable tie supports 504013 (2x) with the screw 500443 (2x).

10. Install the diode assembly 381145 on the connector **C136** of the harness.

11. Install the relays 563332 (5x) on the harness on the relay connectors.

12. Secure the harness with cable ties 504637 (3x).
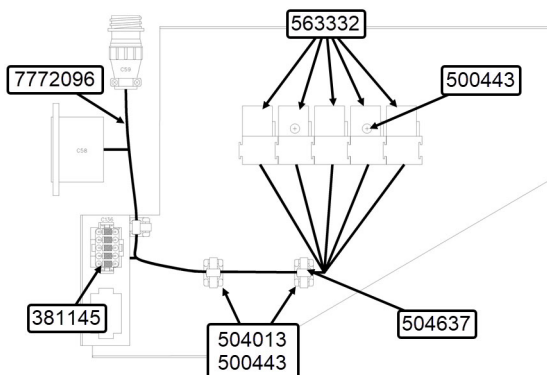
13. Reinstall the A/C control panel with the nuts (2x) and the washers (2x).

14. Connect the connectors **C58** and **C59** from the new harness 7772096.

15. Mark the position of the cable tie support and drill a hole Ø1/8".

16. Install the cable tie support 504013 (1x) with the screw 500443 (1x).

17. Secure the harness with the cable ties 504637 (3x).
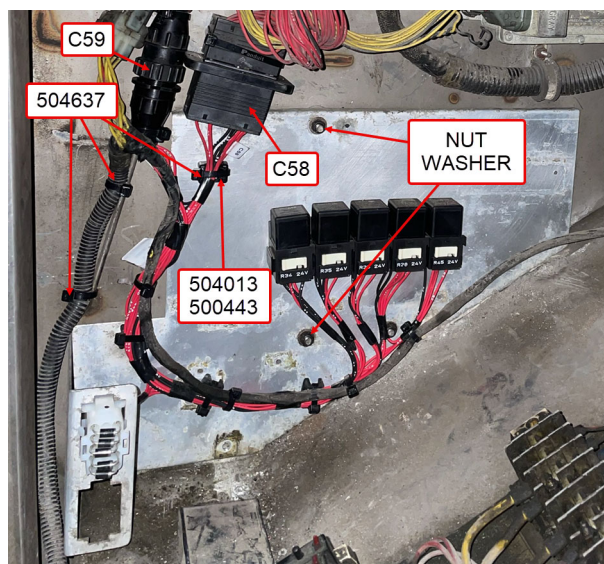
18. Close left rear service compartment door.
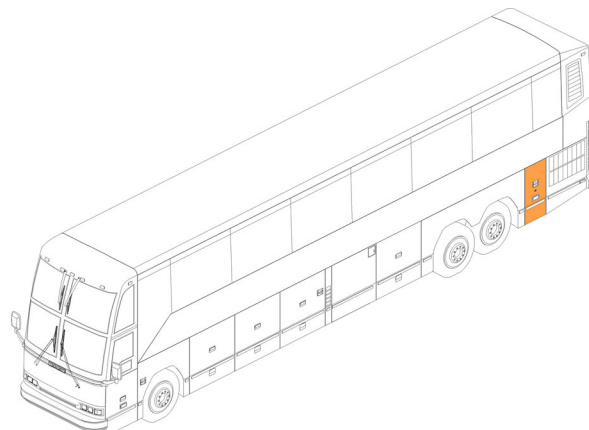
INSTALLATION OF THE NEW SENSOR IN EVAPORATOR COMPARTMENT

1. Open the evaporator compartment door.
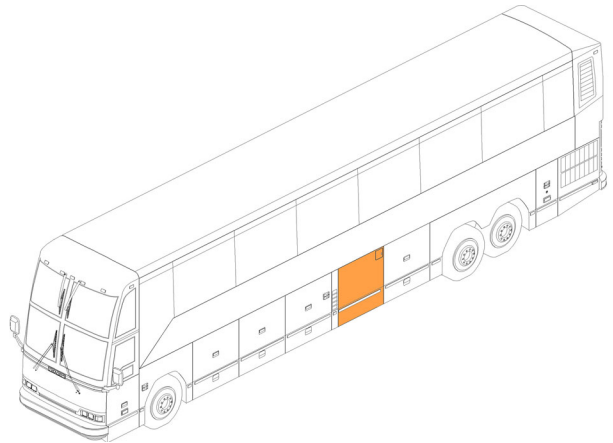
2. Locate the panel for the sensor will be install.
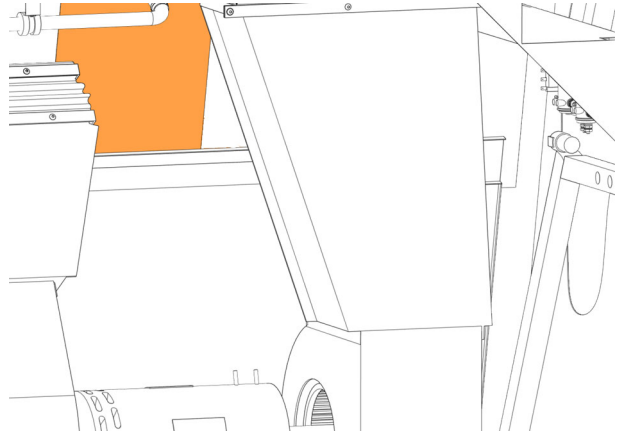
3. Mark the position of the holes using sensor support as a template.

1"

1"3/4
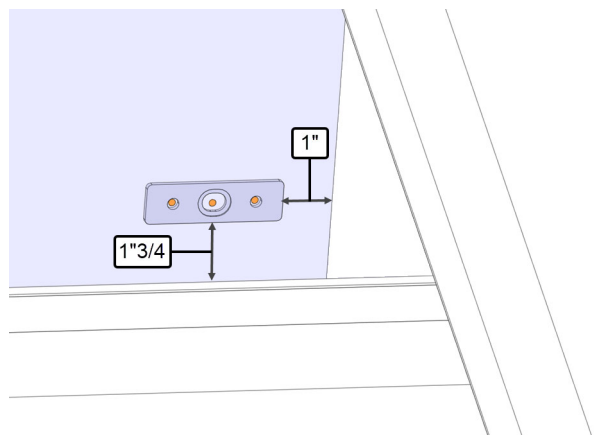
4. Drill three holes Ø1/8".

Ø1/8"
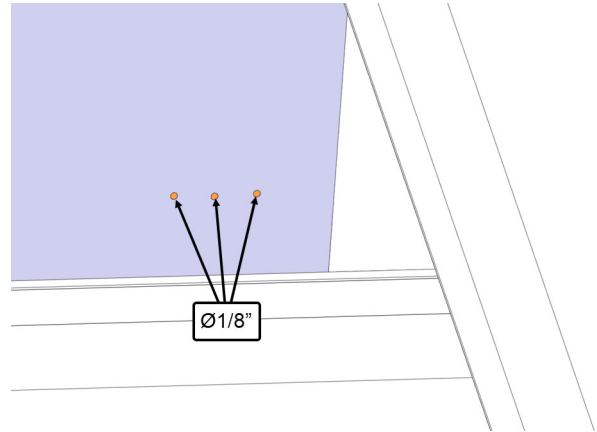
5. Redrill the center hole Ø1/2".

Ø1/2"
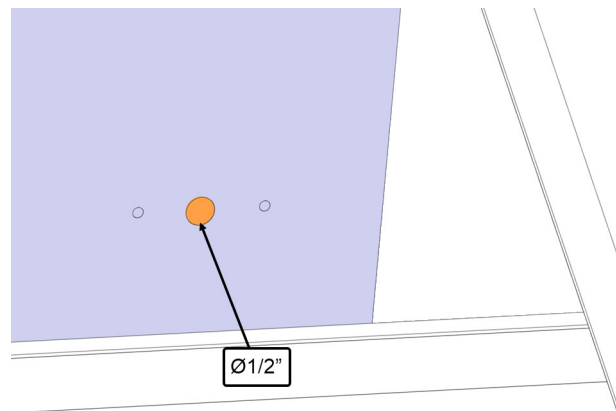
6. Install the new sensor 563063 on the new support 3202184.

7. Secure the assembly on the panel with the screws 500443 (2x).

3202184

500443

563063
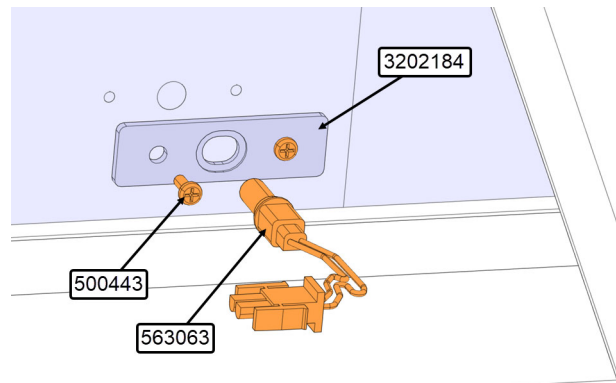
8. Plug connector **C153** of harness 7772097 to the sensor.

C153
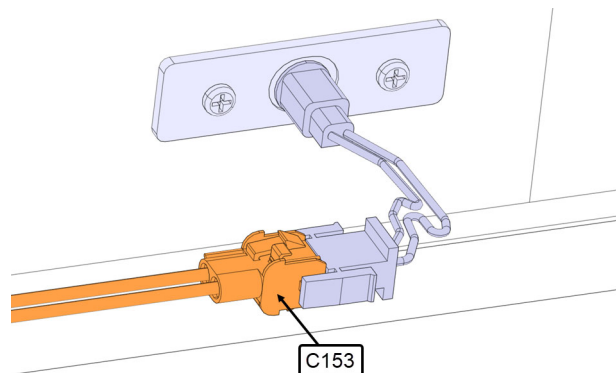
9. Run the harness 7772097 on existing harness
    to reach the third baggage compartment.

10. Secure the harness with cable ties 504637 (4x)
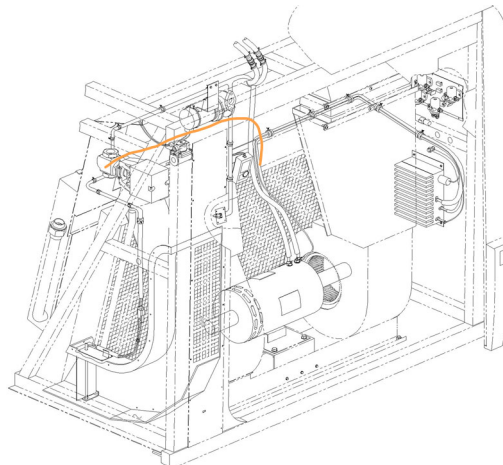
11. Run the harness 7772097 to reach the front dash.

12. Secure the harness to PVC pipe and existing harness with the cable tie 504637 (30x)

7772097
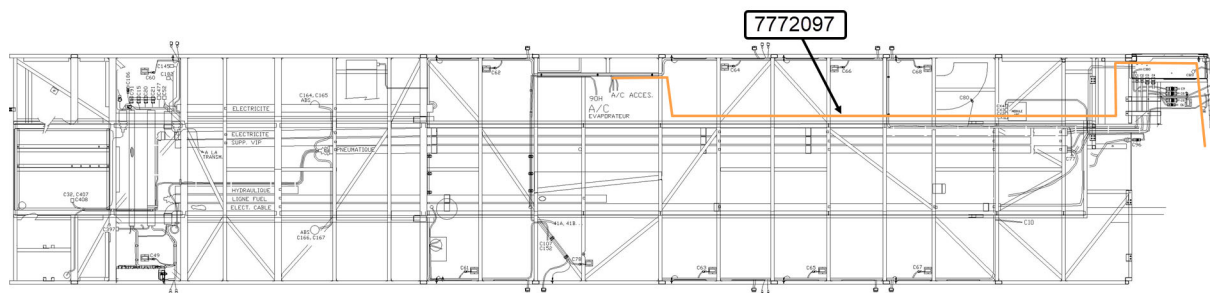
13. Close the evaporator compartment door.
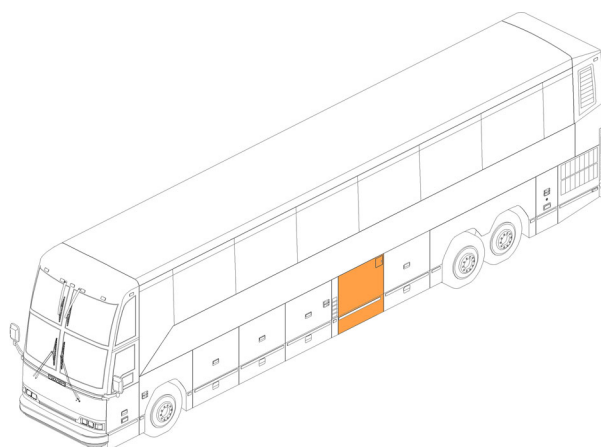
DISCONNECT OLD AIR TEMPERATURE SENSORS

1. Disconnect the three old air temperature sensors to avoid troubleshooting problem.

    -   Front duct
    -   Evaporator blower
    -   Rear duct

2. Remove the connectors

3. Cut the terminal and install shrink tube at each wire end.

<QF7720959 rev 5>
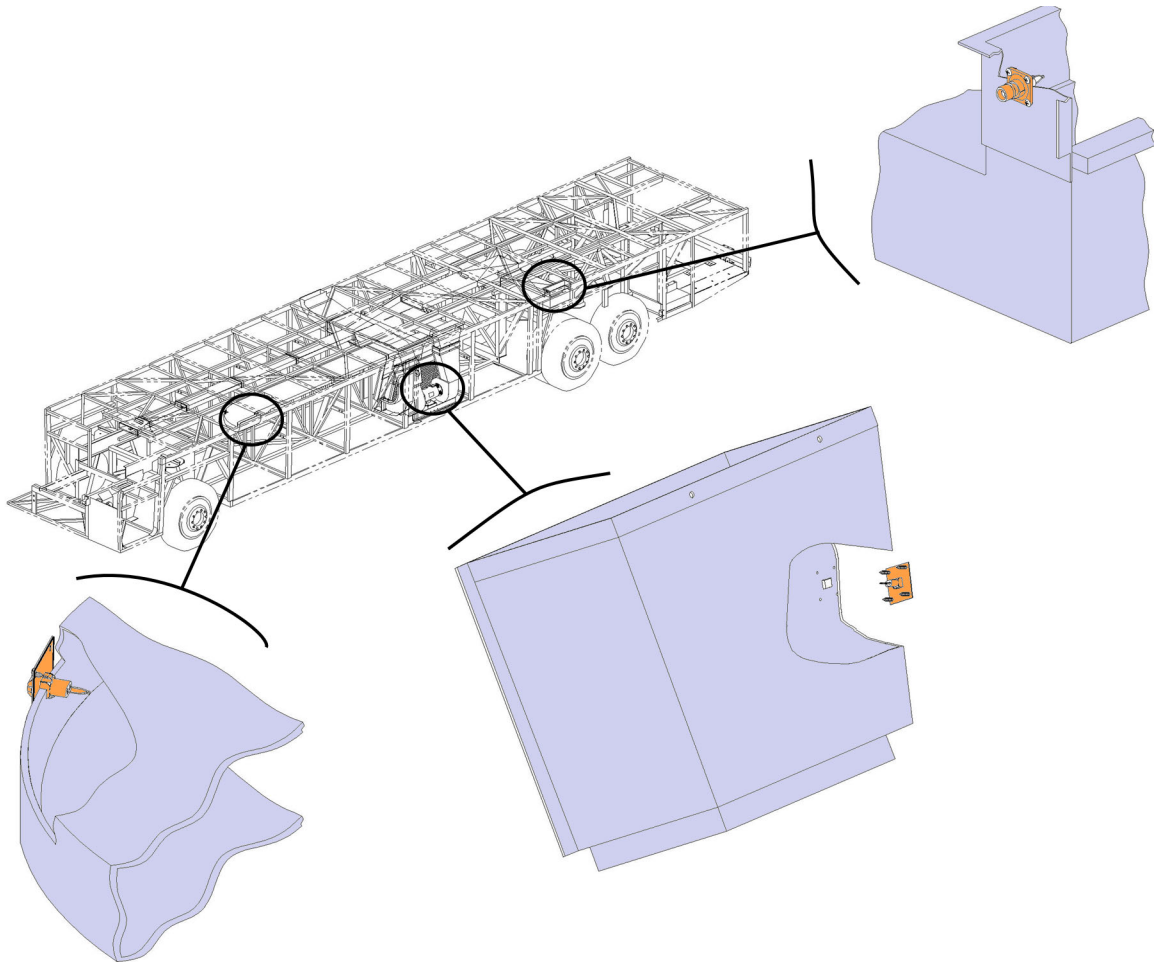
DASH HVAC CONTROL MODULE INSTALLATION

1. Remove the screws (5x) and the washers (5x) and remove the dash cover.
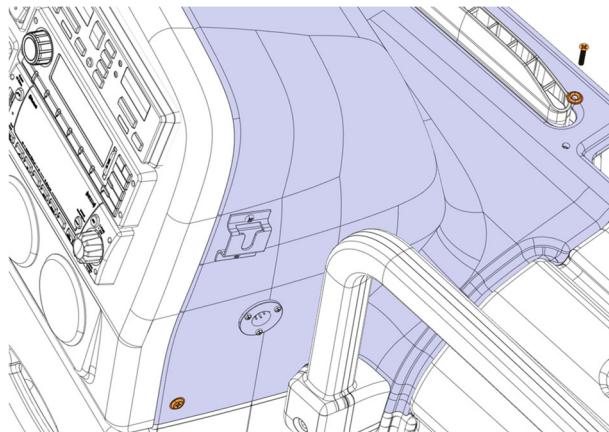
2. Remove the nut and disconnect the old control.
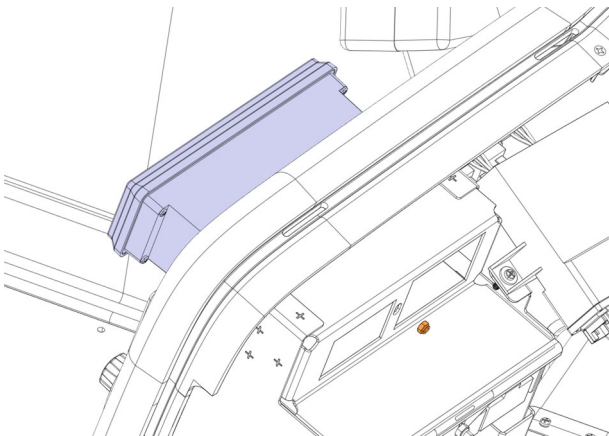
3. Connect the connectors **C539M** and **C540M** of the new interface harness 7772095 to the new control module 871373.

4. Connect the sensor harness connector **C479.**

5. Connect the main harness connector **C140**.
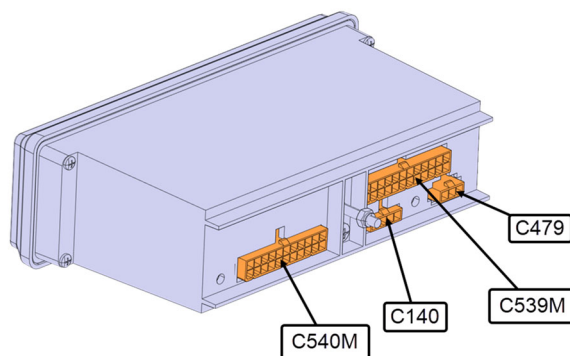
6. Connect the connector **C539V** of the new interface harness 7772095 to the main dash harness connector **C539**.

7. Connect the connector **C540V** of the new interface harness 7772095 to the main dash harness connector **C540**.

   Note:

   - **For vehicles from W-2285 to Y-3890, recover the 065300 harness from the old module and insert it between the interface harness 7772095 connector C539V and C540V main dash harness connector C539 and C540.**
   - **Harness 065300 was included on previous Retrofit WB00-34. If that retrofit was not completed, please order harness 065300.**
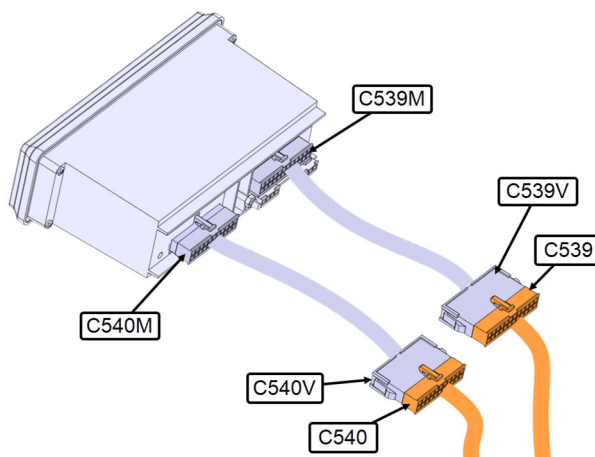
8. Locate connector **C571.**
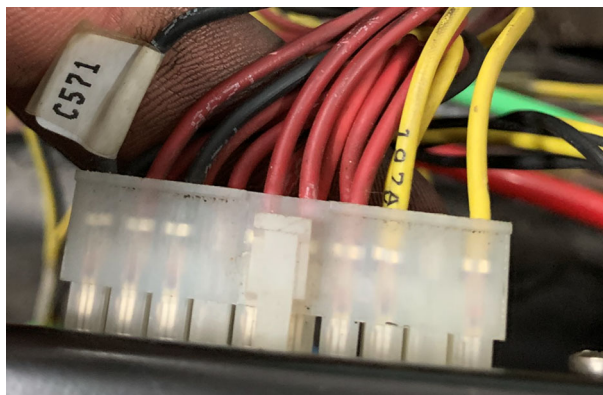
9. Disconnect the connector **C571.**

10. Extract wire **28T** from position 6 with extractor 682486.

11. Extract wire **28H** from position 7 with extractor 682486.

12. Cut the terminal and install shrink tube at end of each wire.
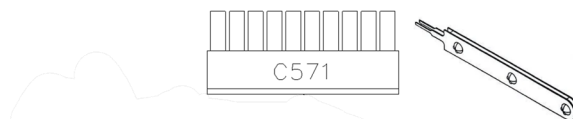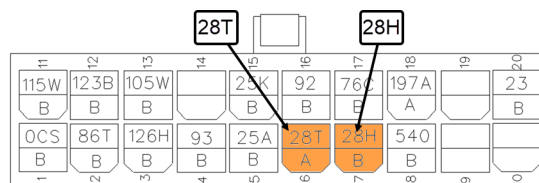
13. Insert the wire **28T** from the new interface harness at position 6 of the connector **C571**.

14. Insert the wire **28H** from the new interface harness at position 7 of the connector **C571**.

15. The red wire **65P** and install shrink tube at end of the wire.
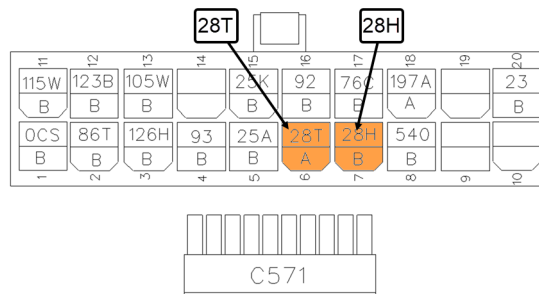
   Note: Wire 65P control de Passenger recirculation device located in the fresh air inlet plenum.

   This kit does not include PASS REC switch instruction.

16. Secure the new module 871373 with the nut.
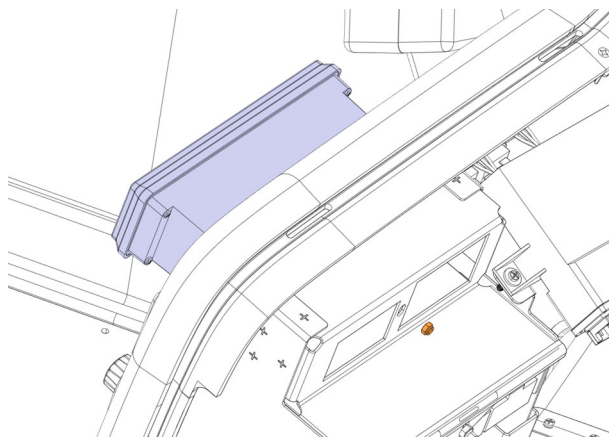
17. Reinstall the dash cover with the screws (5x) and the washers (5x).
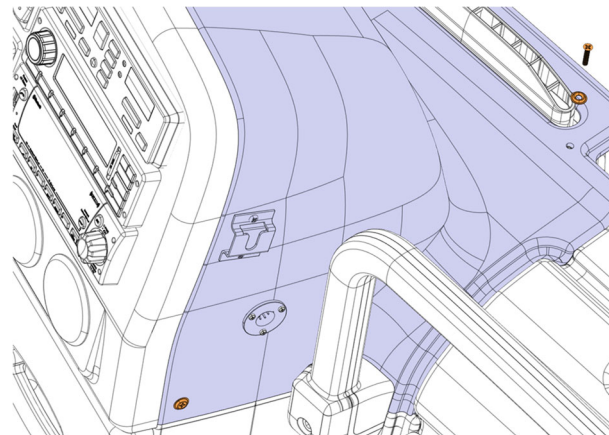
PARTS / WASTE DISPOSAL

Discard waste according to applicable environmental regulations (Municipal/State[Prov.]/ Federal)

Appendix A

REFERENCE DRAWINGS

 <QF7720959 rev 5>

Wiring Harness Dash Interface HVAC conversion 98-03 with 871373

C539V	563038
2	64
3	0T5
4	0T5
6	44C
7	44C
8	29H
9	29H
10	12LX
11	65A
12	65
14	65P
15	65D
16	45G
17	181
20	66
19	116B
22	116C
23	68
24	68A

C540V	563038
1	167
2	167A
3	165D
5	0T5
6	180A
7	180C
11	69
15	2B
16	45B
17	180B
18	180
19	114A
20	83
21	25D
22	12H

C539M	562780
2	64
3	0T5
4	0T5
6	44C
7	44C
8	29H
9	29H
10	12LX
11	65A
12	65
14	66
15	65D
16	45G
17	181
19	116B
20	2B
21	165D
22	116C
23	68
24	68A

C540M	562781
3	45B
5	0T5
6	180A
7	180C
9	167
10	167A
11	69
15	28H
16	28T
17	180B
18	180
19	114A
20	83
21	25D
22	12H

C571	
28H	6
28T	7

Pass damper SW	
TBD	65P

563038 MOL#39-01-2241 — PIN HOUSING 24C

PIN TERMINALS:

PREVOST NO.	MOLEX NO.	WIRE RANGE
N74733	39-00-0048	24-18
563041	39-00-0041	24-18

563039 MOL#39-01-2221 — PIN HOUSING 22C

PIN TERMINALS:

PREVOST NO.	MOLEX NO.	WIRE RANGE
N74733	39-00-0048	24-18
563041	39-00-0041	24-18

SOCKET TERMINALS:

PREVOST NO.	MOLEX NO.	WIRE RANGE
562463	39-00-0039	24-18
563483	39-00-0078	16

562780 MOL#39-01-2240 — SOCKET HOUSING 24C

SOCKET TERMINALS:

PREVOST NO.	MOLEX NO.	WIRE RANGE
562463	39-00-0039	24-18
563483	39-00-0078	16

562781 MOL#39-01-2220 — SOCKET HOUSING 22C

SOCKET TERMINALS:

PREVOST NO.	MOLEX NO.	WIRE RANGE
562463	39-00-0039	24-18
563483	39-00-0078	16

100 100 50 100 600 600

7772095

Wiring Harness RJB HVAC conversion 98-03 with 871373

R34	561183
85	0K
86	66
30	67D
87	67A

Terminal 564599

R35	561183
85	0K
86	45A
30	57B
87	0K

Terminal 564599

R36	561183
85	0K
86	165D
30	77C
87	77B

Terminal 564599

R38	561183
85	0K
86	45B
30	67A
87A	67V

Terminal 564599

R45	561183
85	0K
86	2B
30	67A
87A	57E
87	2BB

Terminal 564599

C136	561987
	157E
	345A
	457C
	645A

Terminal 561249

C59	561583
1	0K
4	77B
5	77C
8	57C
9	67A
10	67D
11	167A
12	0K
13	167
14	2BB

SOCKET HOUSING 14C
Shell 561655
Terminal 561001

AMP#206043-3

C58	562280
1	57B
2	67V
3	66
4	67V
6	45B
10	2B
13	165D
14	167A
15	167
19	67A

DEU#DRC12-24PA
TYPE 16
PIN HOUSING 24C
Terminal 562286

AMP#1-480711-0
NATURAL PIN HOUSING 15C

BOSCH #3334485008

7772096

Wiring Harness Passenger Sensor HVAC conversion 98-03 with 871373

C479	
1	135A
2	135B
3	NC

562783
MOL#39-01-4030

SOCKET HOUSING 3C

Terminal 562463

12M

Wires 18AWG White

C153	
1	135A
2	135B

561248
AMP#1-480699-0

NATURAL
PIN HOUSING 2C

Terminal 561671

7772097

C539

C540

C539A

C540A

100

100

100

100

50

B

A

X

0A2

3

4

1

2

5

5

A

A

A

A

NEVER UNPLUG
THIS CONNECTOR

NEVER UNPLUG
THIS CONNECTOR

SEE DETAIL "A"

SEE DETAIL "A"

DETAIL "A"

CUT THIS LEVER HERE

065300

Appendix B

WIRING DIAGRAM &
PIN OUT

Wiring Diagram RJB HVAC conversion 98-03 with 871373

C59_1 (ground)

HVAC ON-OFF RELAY
R34

From Dash control C58_3 66
C871 24+24C-12 10A
24V POWER FROM RR JCT BOX SEE P. 1,1

67D C59 10A

0K C59_9 to Cond sp2 Rly
67A C58_19 to Evap. Rly

AC Clutch RELAY
R36

From Dash control C58_13 165D
C872 77C C59_5 10A
24V POWER FROM RR JCT BOX SEE P. 1,1

0K C59_4 to AC Clutch
77B

Water Valve RELAY
R38

From Dash control C58_6 45B
67A
77C

0K C58_4 to Water Valve
67V C58_2 to Bypass Valve
67V

AC Enable RELAY
R45

From Dash control C58_10 2B
67A

0K C59_14 to Cond fan Sp1 Rly
2BB

Water pump RELAY
R35

From Pre-Heater C59_8 57C
C136_4 57B
C136_6 45A 57E C136_3 C136_1
To Water pump C58_1

0K
0K

C58_15 to Dash control
167 C59 13
OK C91 12
C58_14 to Dash control
167A 11

A/C HI PRES.SW.
320-245
C133 2H 11
B A

A/C LO PRES.SW.
15-30
C132 2HL 2
A 2L B 5

New RJB Harness Harness 7772096

Function (with connector references)

Function	Reference(s)
12V	
Ground	
Ground	
24V	
24V	
12V	
Pass REC	C9_5 (C111_1 *Cylinder)
Drv REC	
Drv Liq Sol Valve	
Drv Water Valve	
12V	
Foot Damper	
Foot Damper	
Defrost damper	
Defrost damper	
to Defroster speed control	
TTLT freezing point	
AC on/off relay	C9_1 / C58_3 / R34_86
Def trigger 9.4V	
TTLT display	
TTLT display	
AC clutch relay	C9_18 / C58_13 / R36_86
Ground	
Damper position	
12 V IGN	
Engine run	
Back light	
TTLT display	
TTLT display	
High Press SW	C9_19 / C58_15
Low Press SW	C9_20 / C58_14
Pass water valve	C9_2 / C58_6
AC enable relay	C9_17 / LIQ SV / C58_10
24V ACC	

Harness 065300 (only from W-2285 to X3890)

C539

Pin	Signal
1	29H1
3	0A2
4	0A1
5	44C2
6	44C1
7	29H2
8	65P
9	65D
10	116B
11	45G
12	29H3
13	65A
14	65
15	68
16	68A
18	64
21	181
22	66
23	116C

C540

Pin	Signal
3	180A
4	180C
5	165D
7	0A3
8	69
10	12H
11	25D
12	114A
13	180
14	180B
15	167
16	167A
18	45B
19	2B
22	83

C539A

Pin	Signal
2	64
3	0A1
4	0A2
6	44C1
7	44C2
8	29H1
9	29H2
10	29H3
11	65A
12	65
14	65P
15	65D
16	45G
17	181
19	116B
20	66
22	116C
23	68
24	68A

C540A

Pin	Signal
1	167
2	167A
3	165D
5	0A3
6	180A
7	180C
11	69
15	2B
16	45B
17	180B
18	180
19	114A
20	83
21	25D
22	12H

NEW DASH INTERFACE HARNESS 7772095

C539V

Pin	Signal
2	64
3	0T5
4	0T5
6	44C
7	44C
8	29H
9	29H
10	12LX
11	65A
12	65
14	65P
15	65D
16	45G
17	181
19	116B
20	66
22	116C
23	68
24	68A

C540V

Pin	Signal
1	167
2	167A
3	165D
5	0T5
6	180A
7	180C
11	69
15	2B
16	45B
17	180B
18	180
19	114A
20	83
21	25D
22	12H

DASH Module 871373

C539M

Pin	Signal
2	64
3	0T5
4	0T5
6	44C
7	44C
8	29H
9	29H
10	12LX
11	65A
12	65
14	66
15	65D
16	45G
17	181
19	116B
20	2B
21	165D
22	116C
23	68
24	68A

C540M

Pin	Signal
3	45B
5	0T5
6	180A
7	180C
9	167
10	167A
11	69
15	28H
16	28T
17	180B
18	180
19	114A
20	83
21	25D
22	12H

C571

Pin	Signal
28H	6
28T	7

Pass damper SW: •65P

*Optional REC Switch

Appendix C

DIAGNOSTIC
NEW MODULE

    <QF7720959 rev 5>

A continuity check is automatically performed at HVAC system start-up. If an open or short-circuit occurs, the corresponding switch LED or the display will blink for 10 seconds. The probes are checked at least every 5 minutes.

Circuit	Switch LED or Display
F/A damper driver	Driver Rec
Damper mix	Driver air 4th switch
Driver "Liquid Solenoid Valve"	Driver display "Set Point" (AC)
Driver "Hot Water Valve"	Driver display "Set Point" (HE)
Passenger "Hot Water Valve"	Passenger display "Set Point" (HE)
A/C Clutch Relay	A/C Clutch
Exterior Probe	Display "Text". (---)
Driver interior probe	Driver display "Set Point" (---)
Passenger interior probe	Passenger display "Set Point" (