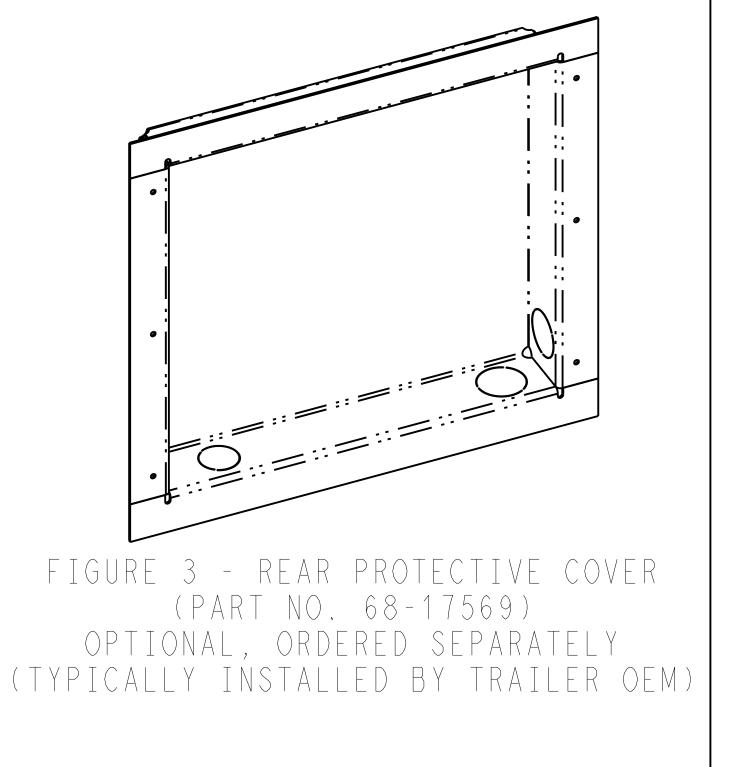


FIGURE 2 - REMOTE PANEL, FLUSH MOUNT

△ALARM



2.0 DRAIN TUBE - ROUTE A 1/2" PVC DRAIN TUBE FROM THE BOTTOM OF THE REMOTE
PANEL CUT-OUT AREA DOWN OUT OF THE BOTTOM OF THE TRAILER. IF THE SHEETMETAL POCKET (CTD P/N 86-05098-00) IS USED INSIDE THE WALL,
A 0.86" DIA. KNOCKOUT IS PROVIDED IN THE LOWER LEFT BOTTOM OF THE POCKET FOR A 1/2" CONDUIT FITTING & NUT. THE
FITTING THREADED LENGTH INTO THE POCKET SHOULD BE SHORTENED TO ASSURE REASONABLE WATER DRAINAGE.

DO NOT TIE WRAP OR SECURE WIRING OR CABLES TO FUEL LINES OR HIGH VOLTAGE WIRING (VECTOR MODELS). FIRE OR ELECTRICAL SHOCK CAN OCCUR

WHEN INSTALLING CABLE BETWEEN REEFER UNIT AND REMOTE PANEL, ROUTE IN CONDUIT, OR SECURE CABLE WITH TIE WRAPS, ETC.TO AVOID CHAFING, PINCH POINTS, AND ROAD DEBRIS. ALWAYS USE RUBBER GROMMETS TO PROTECT BARE CABLES THROUGH METAL HOLES.

DO NOT ROUTE THE CABLE THROUGH THE EVAPORATOR POD EITHER BY DRILLING OR DISRUPTING THE WIRING GROMMET THROUGH THE POD. THE WIRING CONSISTS OF BOTH HIGH AND LOW VOLTAGE WIRING, WHICH IS UNPROTECTED WITHIN THE GROMMET TO ASSURE SEALING AROUND THE WIRES. FIRE OR ELECTRICAL SHOCK CAN OCCUR.

3.0 CONDUIT ROUTING - THE CABLE IS 0.50" DIA, USE 1/2" CONDUIT OR LARGER. ROUTE IT FROM EITHER THE BOTTOM OR SIDE OF THE REMOTE PANEL CUT-OUT AREA ALONG INSIDE THE TRAILER WALL (TRAILER OEM) TO AND THROUGH THE FRONT WALL OF THE TRAILER OR OUT THE BOTTOM AND UNDER THE TRAILER TO THE FRONT WALL. THE REMOTE PANEL CONNECTOR AT THE UNIT IS AT THE LOWER ROADSIDE, BEHIND THE MAIN DISPLAY (SEE FIGURE 4). IF THE SHEETMETAL POCKET IS USED INSIDE THE WALL, TWO 1.06" DIA. KNOCKOUTS ARE PROVIDED IN THE LOWER RIGHT SIDE AND BOTTOM OF THE POCKET FOR A 3/4" CONDUIT, FITTING AND NUT

4.0 CABLE ROUTING - ONE END OF THE CABLE HAS 2 - 2-PIN CONNECTORS, THOSE CONNECTORS MUST BE AT

TITLE

THE REEFER UNIT END OF THE CABLE. SO ROUTE THE CABLE BLUNT END FROM TRAILER FRONT FACE TO THE REMOTE PANEL OPENING. 5.0 CUT THE CABLE TO LENGTH WITH 1 FOOT OR SO EXTRA. STRIP THE CABLE CASING BACK SO THAT THE (4) WIRES MARKINGS ARE VISIBLE. NOTE THAT THE CABLE CONTAINS 2 TWISTED PAIRS, BOTH CONTAINING A BLACK AND A WHITE WIRE, SO FOLLOW THE MARKINGS ON THE WIRES AND TAKE CARE NOT TO MIX UP THE WIRES WHILE TERMINATING. FOLLOWING THE WIRE CHART ON SHEET 2, TERMINATE THE WIRES AND INSTALL THE 4-PIN CONNECTOR.

REMOTE PANEL MUST BE INSTALLED USING A QUALITY SEALANT BETWEEN IT AND THE TRAILER WALL TO ASSURE NO MOISTURE CAN PENETRATE INTO THE WALL CAVITY.

- 6.0 LAY THE REMOTE PANEL DOWN ON A FLAT SURFACE, FACE DOWN. APPLY A BEAD OF QUALITY SILICONE SEALANT (SIKAFLEX 221 IS RECOMMENDED)
- AROUND THE PERIPHERY OF THE BACK OF THE FACE PLATE AND MOUNTING HOLES, FOR SEALING TO WALL. 7.0 CONNECT THE CABLE CONNEC
- 8.0 ONCE INSTALLED, CLEAN AR TO THE MOUNTING SURFACE IS SEALED COMPLETELY AROUND THE PANEL EDGES.

В	REVISED SPEC. 2.0 TO REQUIRE DRAIN TUBE. SEE SHT 2.	12/18/13	PJS			72N0172P13
А	COMPLETE REDESIGN OF KIT AND INSTRUCTIONS.	12/10/13	PJS			72N0145P13
-	INITIAL RELEASE.	23 SEP 2013	LT-NM			72N0129P13
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OPENING AS HIGH AS IT WILL GO, THEN MARKING THROUGH THE MOUNTING HOLES ONTO THE WALL FOR DRILLING.

1.0 PREPARATION; READ THIS ENTIRE NOTE BEFORE PROCEEDING - THE APX REMOTE PANEL CAN BE INSTALLED EITHER INSIDE OR OUTSIDE

THE TRAILER. SELECT LOCATION FOR MOUNTING AND PREPARE THE SURFACE PER THE DIMENSIONS ABOVE. FOR TRAILER MANUFACTURER

PREPARATION, FOR THE FLUSH MOUNT TYPE THERE IS ALSO A REAR PROTECTIVE COVER AVAILABLE FOR INSTALLATION BEFORE THE REMOTE

WHEN USING THE SHEETMETAL REAR COVER, CUT THE OPENING IN THE TRAILER WALL AS CLOSE TO THE DIMENSIONS REQUIRED AS POSSIBLE,

OPENINGS THAT ARE TOO LARGE CAN CAUSE INADEQUATE WALL MATERIAL FOR THE PANEL MOUNTING SCREWS OR SEALING IT TO THE WALL.

INSTALLATIONS NOT USING THE SHEETMETAL POCKET SHOWN HERE: AN OPENING SLIGHTLY SHORTER IN HEIGHT CAN BE USED. FOR BEST

FIT AND PROPER SEALING ACROSS THE TOP OF THE REMOTE PANEL, USE THE REMOTE PANEL AS A TEMPLATE BY LOCATING IT IN THE CUT

PANEL INSTALLATION:

PANEL IS INSTALLED (SEE FIGURE 3).

THIRD ANGLE	
PROJECTION	

IMPERIAL INCH FORMAT:	
UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES WITH	
METRIC CONVERSIONS IN [MILLIMETERS]	

INSTALLATION INSTRUCTION APX REMOTE DISPLAY PANEL

DRAWING NO. 98-02604 SHEET 1 OF 3

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ECTOR TO THE REMOTE	E PANEL CONNECTOR, AND INS	TALL THE PANEL INTO THE TRAILER WALL	; THE REMOTE PANEL
ITS MOUNTED POSITIO	ON WITH (6) 6MM SELF TAPPI	NG STAINLESS STEEL SCREWS.	
AROUND PERIPHERY OF	THE REMOTE PANEL TO REMO	VE ANY EXCESS SEALANT, WHILE ASSURING	G THE EDGE SEAM
	FELV ADOLLAR THE DAMEL FROM		

SHOULD BE SECURED IN I

SHEET	REV	В	В	A
INDEX				

SHEET

FIGURE 5 - COMM MODULE INSTALLED IN UNIT

EXTENSION CABLE CONNECTIONS:

CABLE CONNECTIONS: PANEL END				
4-PIN CONN.	COLOR/MARKING	DESCR.		
А	BLK1	C A N		
В	WHT1	CAN+		
С	BLK2	PWR		
D	WHT2	PWR+		

CABLE CONNECTION	ONS: REFER UNI	ΓEND
2; 2-PIN CONNS	COLOR/MARKING	DESCR.
3RPA	BLK1	C A N
3RPB	WHT1	CAN+
6 R P A	BLK2	PWR
6RPB	WHT2	PWR+
	2; 2-PIN CONNS 3RPA 3RPB 6RPA	3RPA BLK1 3RPB WHT1 6RPA BLK2

COMM MODULE INSTALLATION:

DO NOT TIE WRAP OR SECURE WIRING OR CABLES TO FUEL LINES OR HIGH VOLTAGE WIRING. FIRE OR ELECTRICAL SHOCK CAN OCCUR.

- 1.0 ASSURE UNIT SROS SWITCH IS OFF AND DISCONNECT NEGATIVE BATTERY CABLE BEFORE PROCEEDING.
 2.0 INSTALL THE COMM MODULE TO THE 2 STUDS ON ITS BRACKET USING THE WASHERS & LOCKNUTS PROVIDED. TORQUE TO 40 IN-LB.
 3.0 UNPLUG ALL CONNECTORS FROM THE SVM (OR SMV) STEPPER MODULE.
- THEN REMOVE THE 3 SCREWS MOUNTING THE MODULE & MOVE THE MODULE
- 4.0 LOCATE THE COMM MODULE BRACKET MOUNTING FLANGE BEHIND THE SVM AT THE SVM MOUNTING LOCATION SO THE COMM BRACKET IS SANDWICHED BEHIND THE SMV, AND REINSTALL THE SVM USING THE 3 LONGER M6 SCREWS (PROVIDED). TORQUE THE 3 SVM SCREWS TO 80 IN-LB.

SOME TIPS: INSTALL THE BOTTOM SCREWS FIRST. USE A LONG EXTENSION TO START THE TOP SCREW. REMOVE THE DISPLAY MODULE FOR MORE ACCESS

- 5.0 REINSTALL THE 35 PIN CONNECTOR(S) TO THE SVM, BUT THE 8-PIN 1SVM CONNECTOR NOW GETS INSTALLED INSTEAD INTO THE COMM MODULE AT THE 1CM CONNECTION
- 6.0 INSTALL THE ADHESIVE TAG (LABEL) INCLUDED IN THE KIT AROUND THE WIRE BUNDLE TO THE 8-PIN CONNECTOR NOW INSTALLED AT "1CM" 3-4 IN. BACK FROM THE CONNECTOR.

WHEN INSTALLING WIRING BETWEEN REEFER UNIT AND REMOTE PANEL, ROUTE AND SECURE CABLE AND HARNESSING TO AVOID CHAFING, PINCH POINTS, AND ROAD DEBRIS. ALWAYS USE RUBBER GROMMETS TO PROTECT BARE CABLE THROUGH HOLES IN METAL .

- 7.0 INSTALL THE COMM MODULE SPLITTER HARNESS AS SHOWN IN FIGURE 5, BY PLUGGING ITS 14-PIN CONNECTOR INTO THE COMM MODULE AT 2CM, AND ITS 8-PIN CONNECTOR INTO THE SVM MODULE
- 8.0 MAKE CABLE CONNECTIONS TO THE REFER UNIT IN THE ORDER PRESENTED HERE, SEE FIG. 6.
- 8.1 LOCATE THE 1RP CONNECTOR ON THE ENGINE HARNESS AND INSTALL IT TO ITS MATE ON THE REMOTE PANEL CABLE. SAVE THE CAP FROM THE ENGINE HARNESS CONNECTOR FOR POSSIBLE REUSE. IF THE 1RP CONNECTOR IS NOT AVAILABLE ON THE ENGINE HARNESS, YOU SHOULD HAVE RECEIVED ADDITIONAL KIT 76-00869 TO PROVIDE THIS CONNECTION
- 8.2 INSTALL THE REMAINING 2 PIN CONNECTOR ON THE REMOTE PANEL CABLE TO ITS MATE ON THE COMM MODULE SPLITTER HARNESS.
- 8.3 IF THERE IS A SECOND 2 PIN CONNECTOR REMAINING ON THE SPLITTER HARNESS UNUSED, EITHER INSTALL THE CAP REMOVED FROM THE ENGINE HARNESS, OR CUT THE CONNECTOR OFF AND USE HEAT SHRINK TUBING TO SEAL THE ENDS OF THE (2) WIRES.
- 9.0 NOTE: VERIFY ALL WIRE CONNECTIONS BEFORE RE-CONNECTING NEGATIVE BATTERY CABLE. FAILURE TO CONNECT WIRES CORRECTLY MAY CAUSE DAMAGE TO THE REMOTE PANEL, COMM MODULE OR OTHER COMPONENTS.

В	REVISED SPECS.:SVM MODULE TOSVM (WORD MODULE IS NOT REQUIRED. PART OF ACRONYM.)	1/28/14	PJS			72N0172P13
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-	INITIAL RELEASE.	23 SEP 2013	LT-NM			72N0129P13
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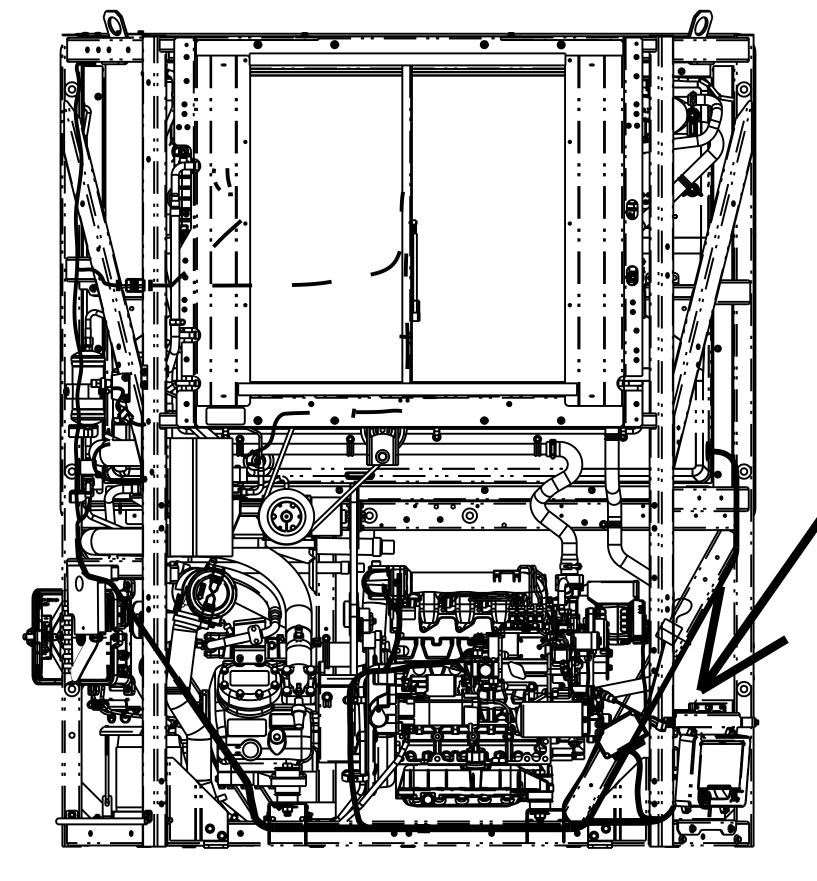
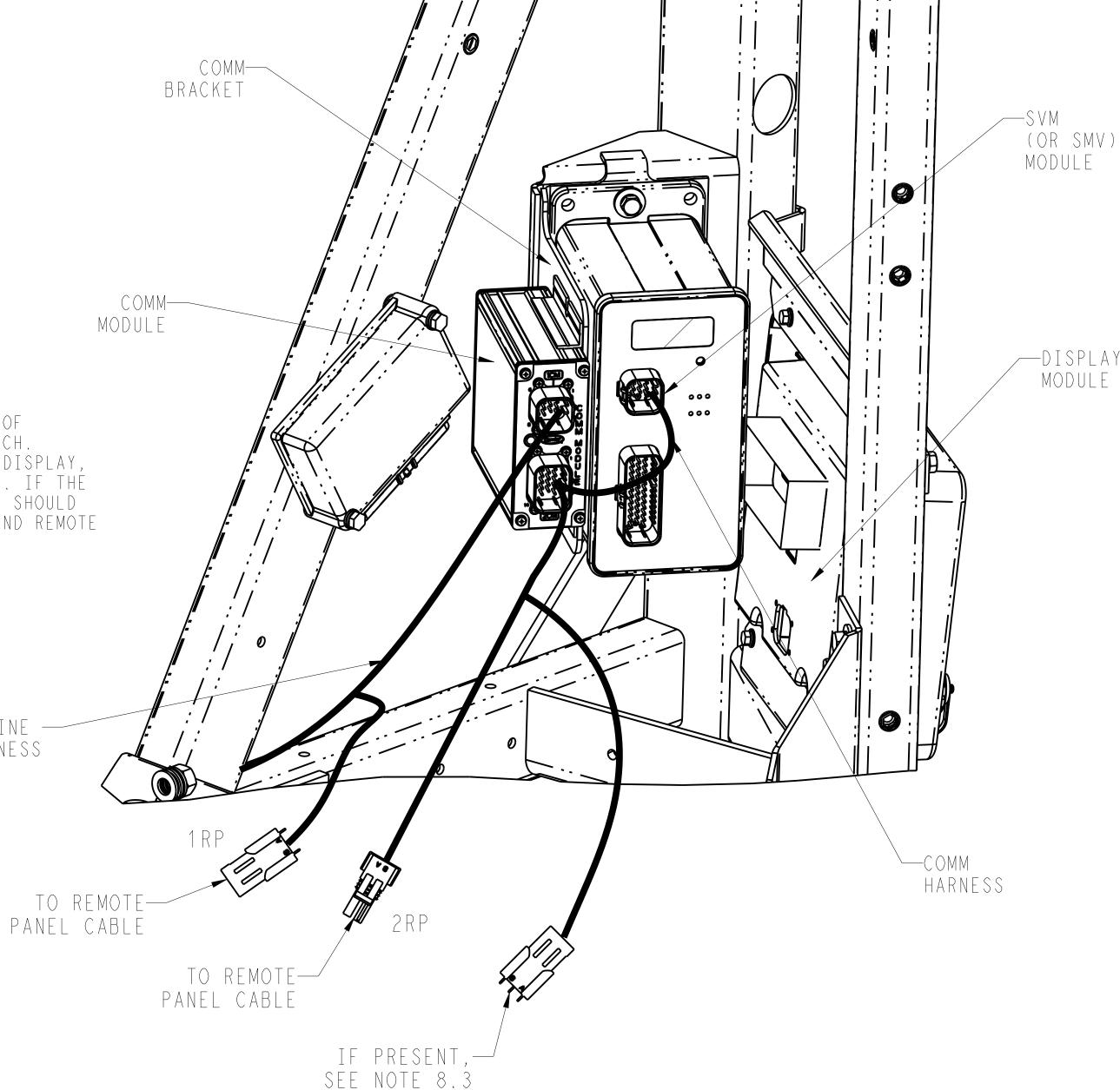


FIGURE 4 - LOCATION OF REMOTE PANEL CONNECTION IN REEFER UNIT BEHIND DISPLAY

10.0 RE-CONNECT NEGATIVE BATTERY TERMINAL AND TEST OPERATION OF THE REMOTE PANEL BY TURNING ON THE REEFER UNIT SROS SWITCH THE REMOTE PANEL SHOULD ILLUMINATE ALONG WITH THE MAIN DISPLAY, AND THE UNIT ENGINE SHOULD START AFTER THE NORMAL DELAYS. IF THE UNIT WILL NOT START, THE CURRENT SYSTEM SOFTWARE VERSION SHOULD BE LOADED (WITH THE REMOTE PANEL CONNECTED). THE UNIT AND REMOTE PANEL SHOULD THEN OPERATE NORMALLY.



IMPERIAL INCH FORMAT:
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ENGINE

HARNESS

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