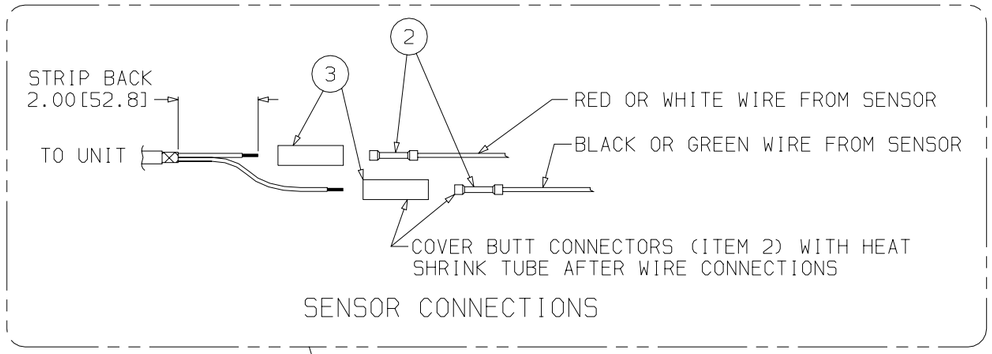
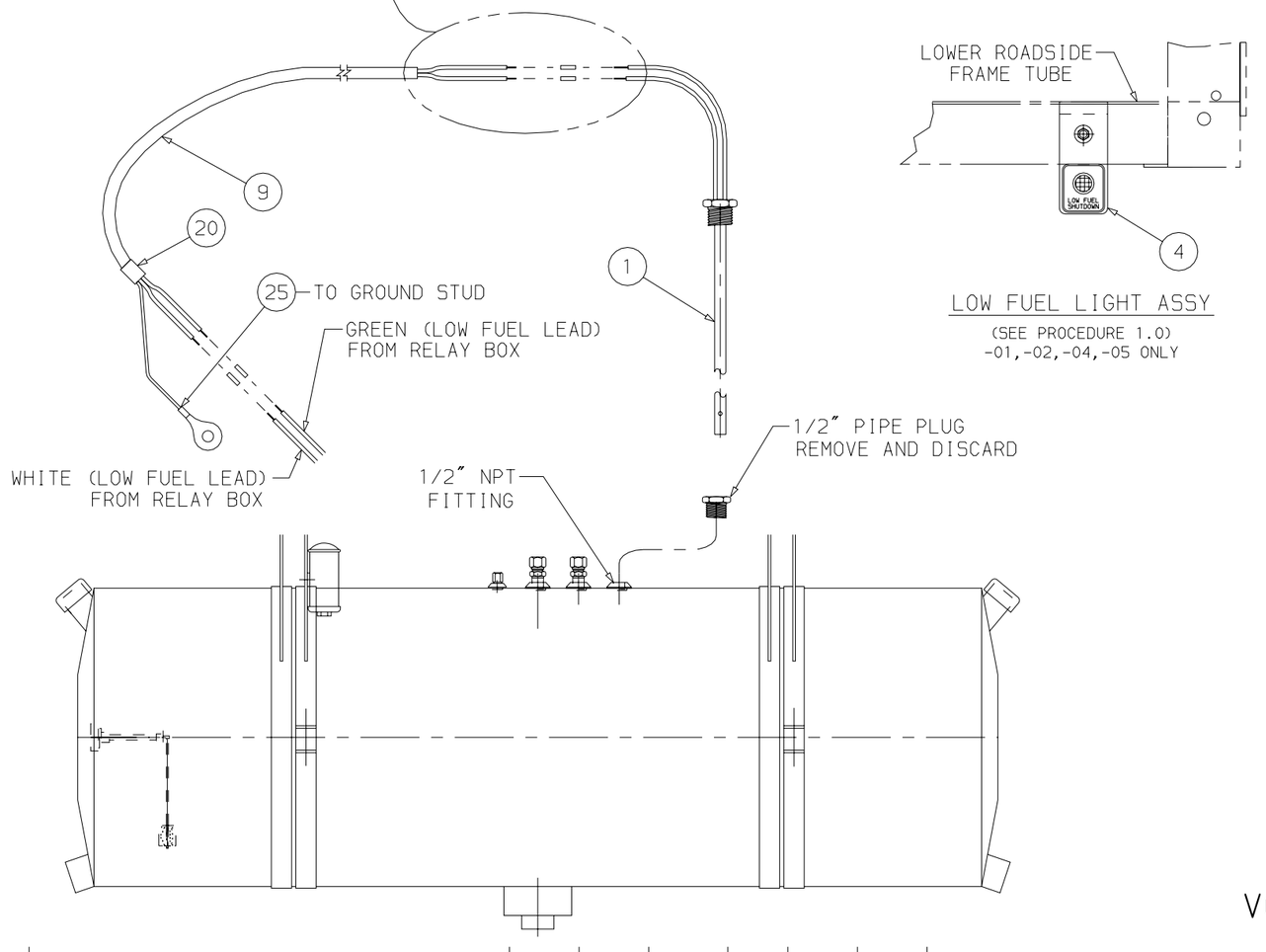
	PART NO.	MODEL DESCRIPTION
VOID	98-03167-01	LOW FUEL SHUTDOWN
VOID	98-03167-02	LOW FUEL/DOOR SWITCH
VOID	98-03167-03	DOOR SWITCH
VOID	98-03167-04	LOW FUEL (ETO)
VOID	98-03167-05	LOW FUEL/DOOR SWITCH (ETO)



SENSOR CONNECTIONS



LOW FUEL LIGHT ASSY

(SEE PROCEDURE 1.0)
-01,-02,-04,-05 ONLY

LOW-FUEL SHUTDOWN INSTALLATION PROCEDURE

1.0 MOUNT LIGHT ASSY (IT.4) WITH EXISTING SCREW AND PLUG IN CONNECTOR FROM SHUTDOWN BOX TO LIGHT ASSY.

2.0 BEFORE MOUNTING FUEL TANK, REMOVE 1/2" NPT PLASTIC PIPE PLUG FROM 1/2" FLANGE FITTING ON TOP OF FUEL TANK AND DISCARD.

3.0 INSTALL LOW FUEL SENSOR(IT.1) INTO 1/2" NPT FLANGE FITTING ON TOP OF TANK USING PIPE THREAD SEALER.

4.0 FUEL TANK MAY THEN BE MOUNTED USING FUEL TANK INSTALLATION INSTRUCTIONS AND HARDWARE SUPPLIED.

5.0 ROUTE CABLE BETWEEN FUEL SENSOR ON THE FUEL TANK AND THE RELAY BOX (LOCATED BEHIND THE MICROPROCESSOR CONTROL BOX) ON THE UNIT. STRIP BACK JACKET ON CABLE ABOUT 2". CAREFULLY TRIM OFF BRAID LEAVING ABOUT 0.25" EXPOSED. THEN USING SOLDER SLEEVE TERMINAL (ITEM 20) ATTACH GROUND WIRE (ITEM 25) TO EXPOSED BRAID WITH HEAT GUN. APPLY HEAT UNTIL SOLDER RING INSIDE SLEEVE MELTS AND FUSES WIRE AND SHIELD. THEN SPLICE WIRES AT THE FUEL SENSOR AND CONNECTIONS (GREEN AND WHITE) COMING OUT OF THE RELAY BOX. APPLY GENTLE HEAT TO THE BUTT SPLICE CONNECTORS TO MELT THE HEAT SHRINK TUBING TO FORM A WATER TIGHT SEAL. ATTACH RING TERMINAL TO GROUND STUD ON FRAME.

NOTE:
FOR MORE DETAILED INSTRUCTION ON INSTALLATION OF "SOLDER SLEEVE" SEE TECHNICAL INSTRUCTION 98-50179-00. THIS INSTRUCTION IS AVAILABLE ON THE CTD TRUCK/TRAILER REFERENCE LIBRARY.

CAUTION

MAKE CERTAIN TO RESPECT FUEL SWITCH POLARITY. MARK THE WIRES TO MAKE SURE THE GREEN WIRE OF THE FUEL SWITCH IS CONNECTED TO THE GREEN WIRE ON THE RELAY BOX. MAKE SURE THE WHITE WIRE OF THE FUEL SWITCH IS CONNECTED TO THE WHITE WIRE ON THE RELAY BOX. REVERSAL OF THESE WIRES WILL CAUSE ERRATIC BEHAVIOR OF THE UNIT.

NOTE:
THE LOW FUEL SENSOR IS POSITIONED IN THE TANK SO THAT THE UNIT WILL SHUT DOWN WITH APPROXIMATELY 1/8 OF A TANK OF FUEL REMAINING IN THE TANK. IF THE UNIT SHOULD SHUT DOWN ON LOW FUEL THE LOW FUEL INDICATOR LIGHT WILL ILLUMINATE ON THE UNIT CONTROL PANEL. A FIVE SECOND TIME DELAY IS BUILT INTO THE SENSOR TO PREVENT FUEL SLOSHING FROM ACTIVATING THE LOW FUEL SHUT DOWN.

VOID

SHEET INDEX	REV	K	K
	SHEET	1	2

SEE SEPARATE PARTS LIST

SYM	REVISION RECORD	ENGRG.	DATE	APPLICATION ENGRG.	DATE	DRAWN BY	DATE
K	VOIDED, UPDATED SHEET INDEX PER PCA72N223GP05.					ZMG	24AUG2005
J	UPDATED SHT. INDEX, ADDED NOTE PER IPCA72N200GP04-94.					ZMG	6/22/04
H	ADDED IT.20 AND 25, UPDATED NOTE 5.0 PER PCA72N249GP02.					ZMG	12/2/02

SUPERSEDES –

TITLE: INSTALLATION INSTRUCTIONS
LOW FUEL SHUTDOWN/DOOR SWITCH OPTIONS

DRAWING NO. 98-03167 SHT 1 OF 2

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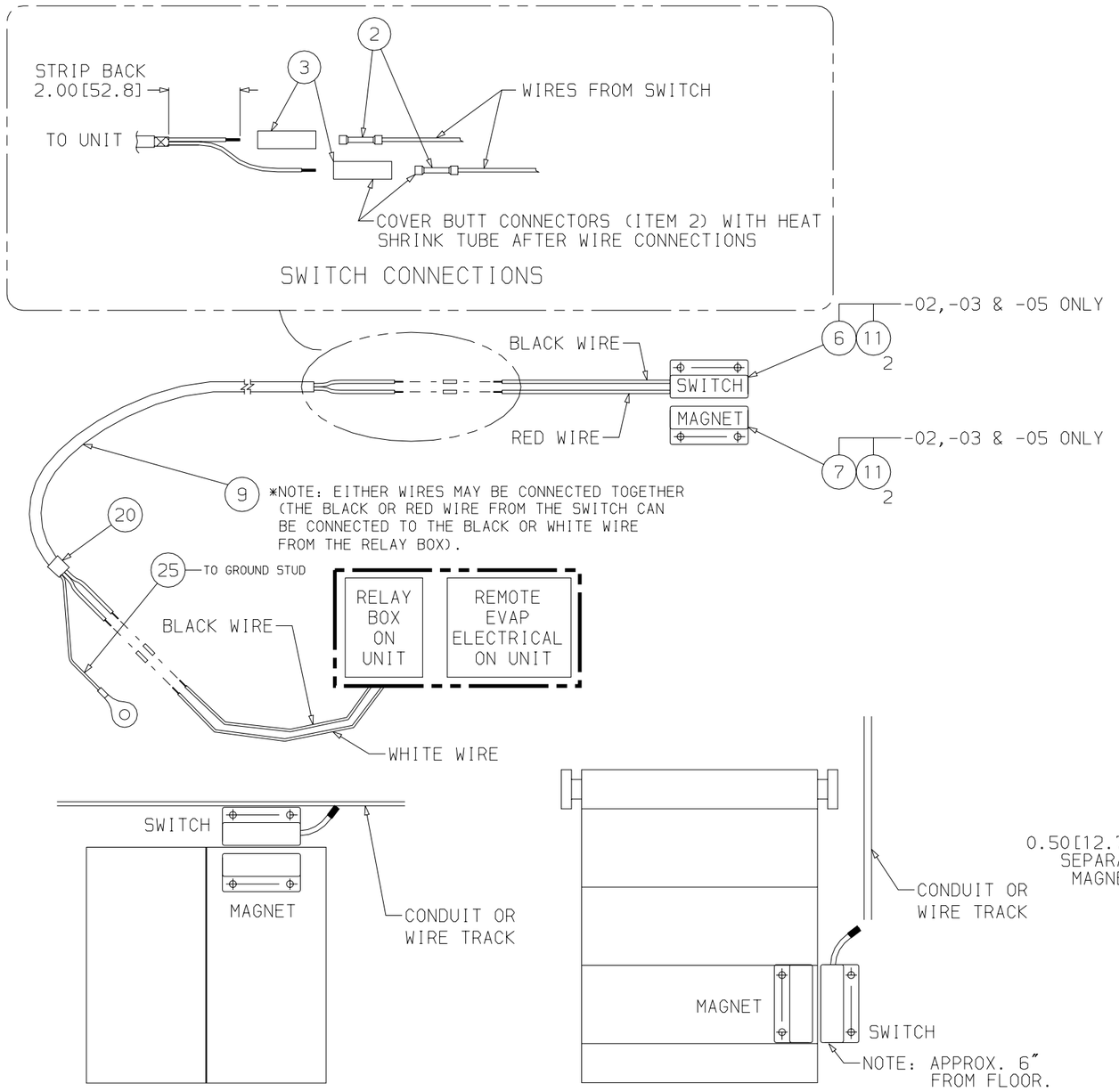


SWINGING DOOR APPLICATION

OVERHEAD DOOR APPLICATION

DOOR SWITCH INSTALLATION PROCEDURE

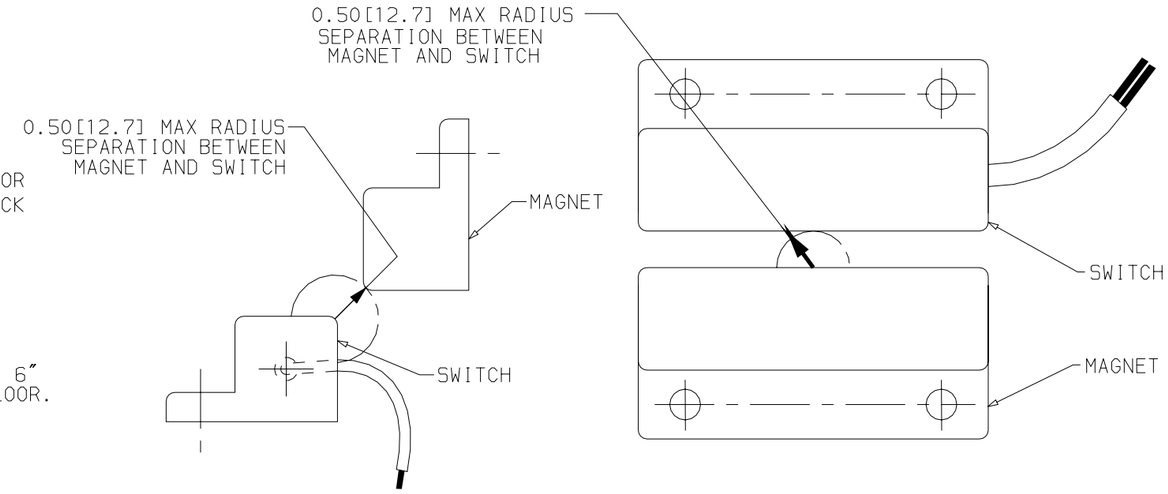
1.0 INSTALL DOOR SWITCH AND MAGNET ON TRAILER DOORS.

2.0 STANDARD UNIT:
ROUTE CABLE FROM BETWEEN THE DOOR SWITCH AND THE RELAY BOX (LOCATED BEHIND MICROPROCESSOR CONTROL BOX) ON THE UNIT. MAKE SURE THAT THESE WIRES CANNOT CHAFF ON ANY SHARP EDGES. CLAMP CABLE ASSEMBLIES IN PLACE AS REQUIRED. STRIP BACK JACKET ON CABLE ABOUT 2". CAREFULLY TRIM OFF BRAID LEAVING ABOUT 0.25" EXPOSED. THEN USING SOLDER SLEEVE TERMINAL (ITEM 20) ATTACH GROUND WIRE (ITEM 25) TO EXPOSED BRAID WITH HEAT GUN. APPLY HEAT UNTIL SOLDER RING MELTS AND FUSES WIRE AND SHIELD. THEN SPLICE WIRES AT THE DOOR SWITCH AND CONNECTIONS (WHITE AND BLACK WIRES) COMING OUT OF THE RELAY BOX. APPLY GENTLE HEAT TO THE BUTT SPLICE CONNECTORS TO MELT THE HEAT SHRINK TUBING TO FORM A WATER TIGHT SEAL. ATTACH RING TERMINAL TO GROUND STUD ON FRAME.

MULTI-TEMP UNITS:
ROUTE CABLE FROM BETWEEN THE DOOR SWITCH AND THE REMOTE EVAP ELECTRICAL CONNECTIONS ON BACK OF HOST UNIT. MAKE SURE THAT THESE WIRES CANNOT CHAFF ON ANY SHARP EDGES. CLAMP CABLE ASSEMBLIES IN PLACE AS REQUIRED. STRIP BACK JACKET ON CABLE ABOUT 2". CAREFULLY TRIM OFF BRAID LEAVING ABOUT 0.25" EXPOSED. THEN USING SOLDER SLEEVE TERMINAL (ITEM 20) ATTACH GROUND WIRE (ITEM 25) TO EXPOSED BRAID WITH HEAT GUN. APPLY HEAT UNTIL SOLDER RING MELTS AND FUSES WIRE AND SHIELD. THEN SPLICE WIRES AT THE DOOR SWITCH AND CONNECTIONS (WHITE AND BLACK WIRES) COMING OUT OF THE HOST UNIT. APPLY GENTLE HEAT TO THE BUTT SPLICE CONNECTORS TO MELT THE HEAT SHRINK TUBING TO FORM A WATER TIGHT SEAL. ATTACH RING TERMINAL TO GROUND STUD ON UNIT.

NOTE:
FOR MORE DETAILED INSTRUCTION ON INSTALLATION OF "SOLDER SLEEVE" SEE TECHNICAL INSTRUCTION 98-50179-00. THIS INSTRUCTION IS AVAILABLE ON THE CTD TRUCK/TRAILER REFERENCE LIBRARY.

NOTE:
ON SOME OVERHEAD DOOR APPLICATIONS IT MAY BE NECESSARY TO OFFSET THE SWITCH FROM THE TRAILER WALL IN ORDER TO PROPERLY POSITION THE SWITCH IN RELATION TO THE MAGNET. ON APPLICATIONS LIKE THESE USE THE BRACKET (ITEM 15) AND HARDWARE (ITEMS 12, 13 AND 14) PROVIDED TO MOUNT AND POSITION SWITCH.



VOID RECOMMENDED MOUNTING POSITIONS

SYM	REVISION RECORD	ENGRG.	DATE	APPLICATION ENGRG.	DATE	DRAWN BY	DATE
K	VOIDED PER PCA72N223GP05					ZMG	24AUG2005
J	ADDED MULTITEMP INSTRUCTION PER IPCA72N200GP04-94.					ZMG	6/22/04
H	ADDED IT.20 AND 25, UPDATED NOTE 2.0 PER PCA72N249GP02.					ZMG	12/10/02
G	ADDED INSTALLATION NOTE PER IPCA72N200GP01 SHT.81.					ZMG	7/16/01

SUPERSEDES -

TITLE: INSTALLATION INSTRUCTIONS
LOW FUEL SHUTDOWN/DOOR SWITCH OPTIONS

DRAWING NO. 98-03167 SHT 2 OF

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