



SERVICE BULLETIN No.1114

Circulate to listed addressees

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| COACH MODEL | : T2145 |
| BULLETIN TYPE | : Product Improvement |
| MANUAL & SECTION | : Maintenance Manual: Chapter 10 – HVAC System Spare Parts Manual: Section 783009 - Dashboard |
| PARTS BOOK REVISION | : Yes |
| DATE | : April 11th, 2003 |
| SUBJECT | : New temperature controls |
| TERMS & CONDITIONS | : No claims will be accepted with reference to this Bulletin. |

APPLICATION:

The specification change subject of this Bulletin has been cut into production in two stages as from following units:

| Model | Engine | Stage 1 VIN | Stage 2 VIN |
|-------|----------------|---|-------------|
| T2145 | Cummins | 44268 → 44277, 44278 → 44281 Lift, 44282 → 44299 | 44290 → |
| | Detroit Diesel | 44585 → 44594, 44595 → 44600 Lift, 44601 → 44609 | 44605 → |

Stage 1 change includes: Burkert water valve, Süttrak temperature control, AC fail light, AC on light, digital interior/exterior temperature display and selector switch

Stage 2 change includes: Proheat built-in timer and flame indicator light (as per Van Hool SB1113).

DESCRIPTION:

- On the right hand lower dash, the temperature controls for the driver and passenger compartment have been revised in production (stage 1 – see Figures 1 and 2).
- At the back of the luggage compartment, in the heating valve and pump compartment, the Sonna 3-way water valve has been replaced by a Burkert valve (stage 1 – see Figures 3 and 4) for improved reliability.

Description continued on next page.

Service personnel: please read, initial and circulate.

| Service Manager | Parts Manager | Warranty Administrator | Workshop Foreman | Service Technician |
|-----------------|---------------|------------------------|------------------|--------------------|
| | | | | |

Continued from page 1.

- Further changes (stage 2) to enhance driver comfort include connection of the auxiliary heater built-in timer and the installation of a heater flame indicator light on the right hand lower dash.
- Refer to attachments 1 through 5 of this Bulletin for old and new specification schematics.

PARTS AND PRODUCTS:

Old parts

| Part No. | Description | Qty. | Fig. | Pos. |
|-----------------|---|-------------|-------------|-------------|
| VH 10595419 | Control panel, temperature control passenger compt. | 1 | 1 | 1 |
| VH 10633120 | Control panel, auxiliary heater, optional (Webasto) | 1 | 1 | n/s* |
| VH 10694661 | Control panel, auxiliary heater, optional (Proheat) | 1 | 1 | n/s* |
| VH 10694662 | Control panel mounting hardware | 1 | 1 | n/s* |
| VH 757741105 | Temperature control, driver's compt. (Sonna) | 1 | 1 | 8 |
| VH 10613590 | Water valve, (Sonna) | 1 | 3 | text box |

*n/s: not shown

New parts

| Part No. | Description | Qty. | Fig. | Pos. |
|-----------------|--|-------------|-------------|-------------|
| VH 632803165 | Control knob, temperature control passenger compt. | 1 | 2 | 1 |
| VH 660792043 | Control knob back-up plate w/ dial marks | 1 | 2 | 1 |
| VH 10603432 | Control lamp | 2 | 2 | 2 & 3 |
| VH 660743305 | Lens, amber, AC ON | 1 | 2 | 2 |
| VH 660743303 | Lens, red, AC FAIL | 1 | 3 | 2 |
| VH 10800273 | Display, temperature, digital | 1 | 2 | 12 |
| VH 10552849 | Sensor, interior temperature | 1 | - | n/s |
| VH 10552848 | Sensor, exterior temperature | 1 | - | n/s |
| VH 660750140 | Toggle switch, interior/exterior temperature | 1 | 2 | 11 |
| VH 10832517 | Back-up plate interior/exterior temperature | 1 | 2 | 11 |
| VH 10832235 | Sensor, temperature front unit | 1 | - | n/s |
| VH 10689684 | Control knob, temperature control driver's compt. | 1 | 2 | 10 |
| PH 903026 | Wiring harness, auxiliary heater Proheat timer | 1 | - | n/s |
| VH 660743307 | Flame-on lamp | 1 | 2 | 7 |
| VH 660792543 | Lens, green, for VH 660743307 | 1 | 2 | 7 |
| VH 10577844 | Water valve, Burkert | 1 | 4 | text box |
| VH 637211940 | Solenoid valve for VH 10577844 | 1 | 4 | text box |

*n/s: not shown

- Old and new parts are not interchangeable.
- New parts will be included in the next Spare Parts Manual update.
- New parts will be made available through regular channels.
- Both old and new parts will be available as service replacements.
- Always use genuine maintenance products and parts. Do not accept imitations.
- Parts and products disposition: discard according to applicable environmental regulations.

Driver's old spec HVAC control panel

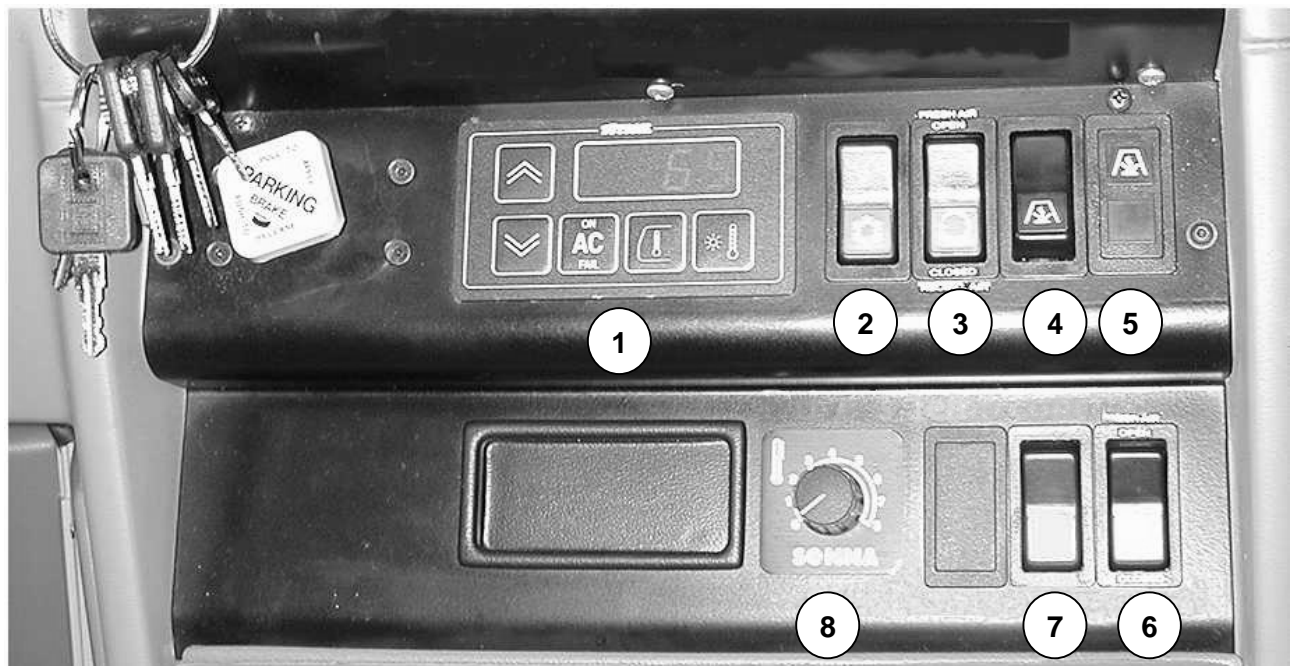


Figure 1: Old panel with digital passenger compartment temperature control, auxiliary heater controls and temperature controls for the driver's compartment. **1. Passenger compartment temperature control.** **2.** HVAC system auto ON. **3.** Fresh air control switch. **4.** Auxiliary heater switch. **5.** Auxiliary heater tell-tale lamp. **6.** Driver's fresh/recirculated air control switch. **7.** Defroster switch. **8.** Temperature control driver's compartment.

Driver's new spec HVAC control panel

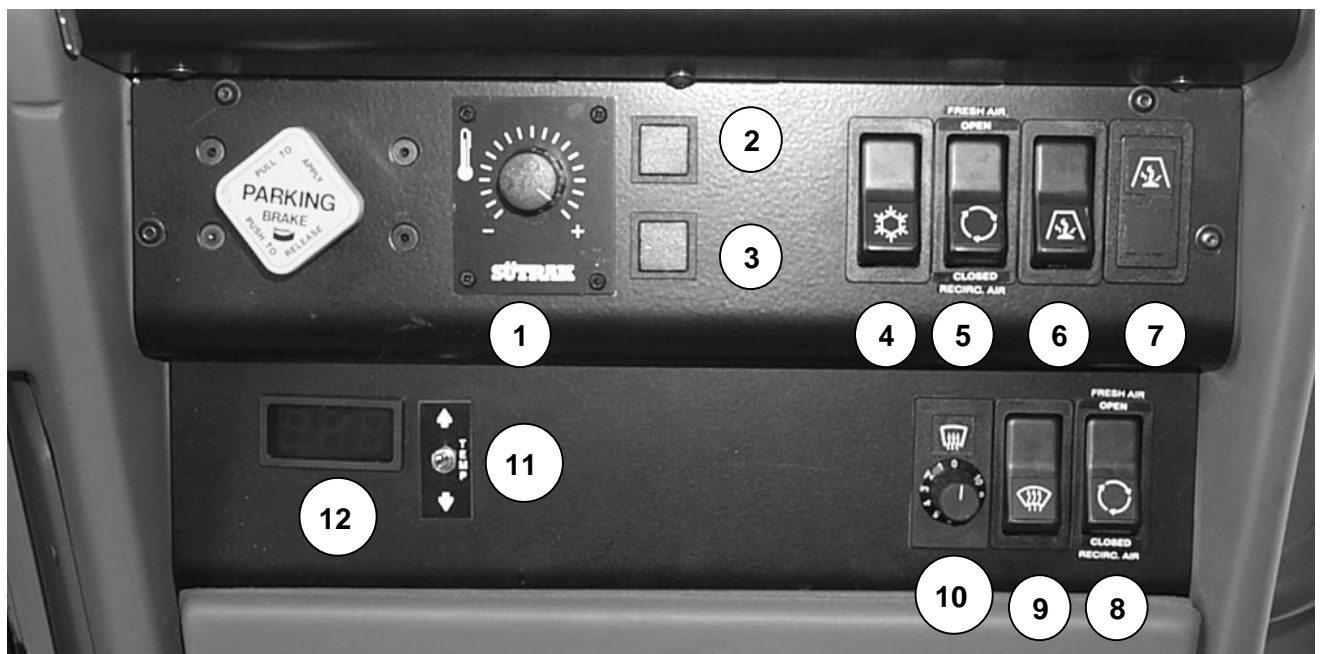


Figure 2: New panel top section shows revised layout with **passenger compartment temperature control knob (1)**, **AC FAIL warning lamp (2)**, **AC ON lamp (3)**, HVAC system auto ON (4), fresh air control switch (5), auxiliary heater controls and **flame ON warning light (6 and 7)**. The bottom section contains the fresh/recirculated air control switch (8), the defroster switch (9), the **temperature control knob for the driver's compartment (10)**, the **digital display (12)** and selector switch (11) for interior/exterior temperature read-out.

Old spec heating valve and pump installation

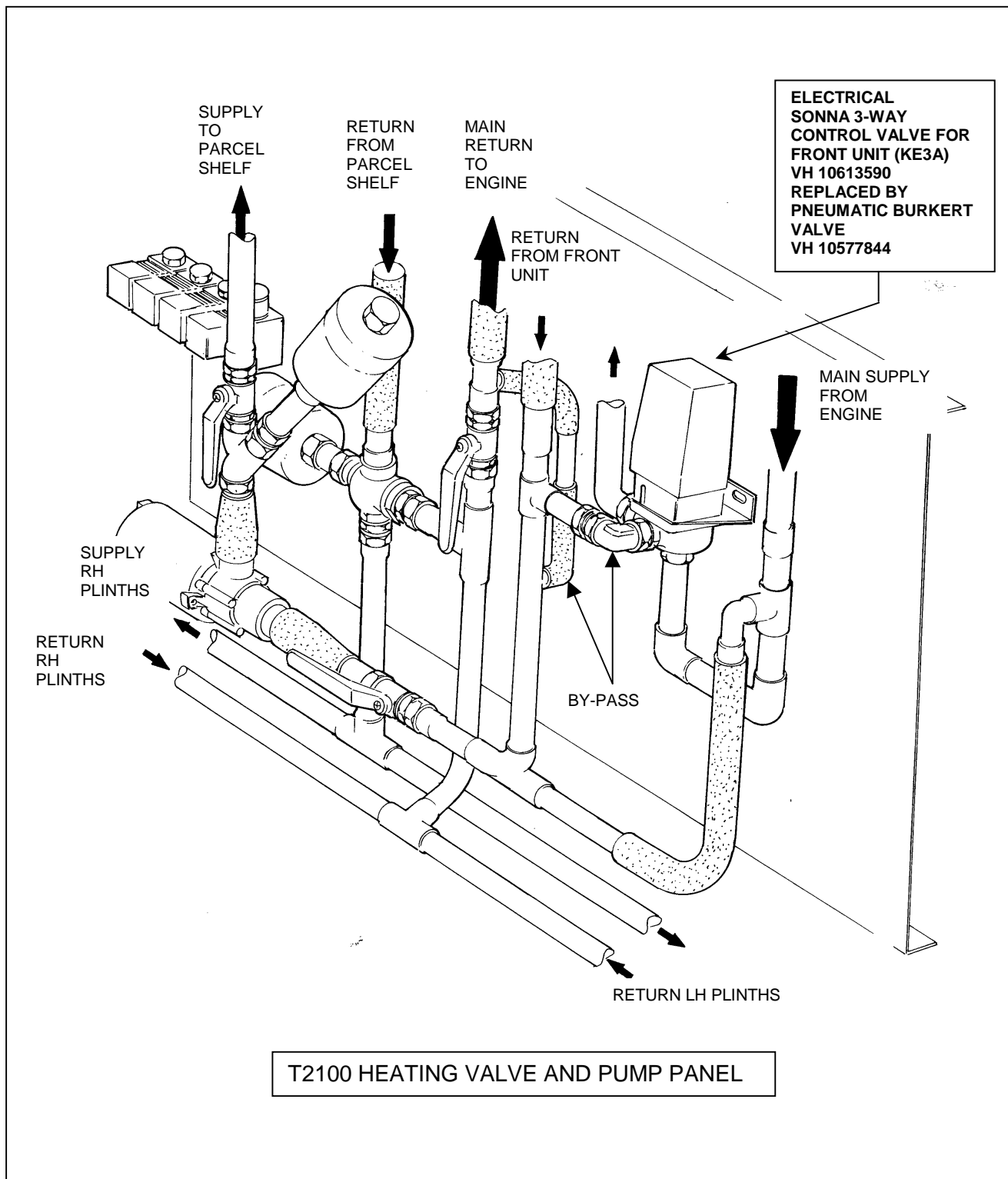


Figure 3: Old T2100 heating valve and pump panel located at the rear of the luggage compartment. To improve reliability, the pneumatically operated Burkert valve has replaced the electrically driven Sonna valve. Sonna and Burkert water valves are not interchangeable.

New spec heating valve and pump installation

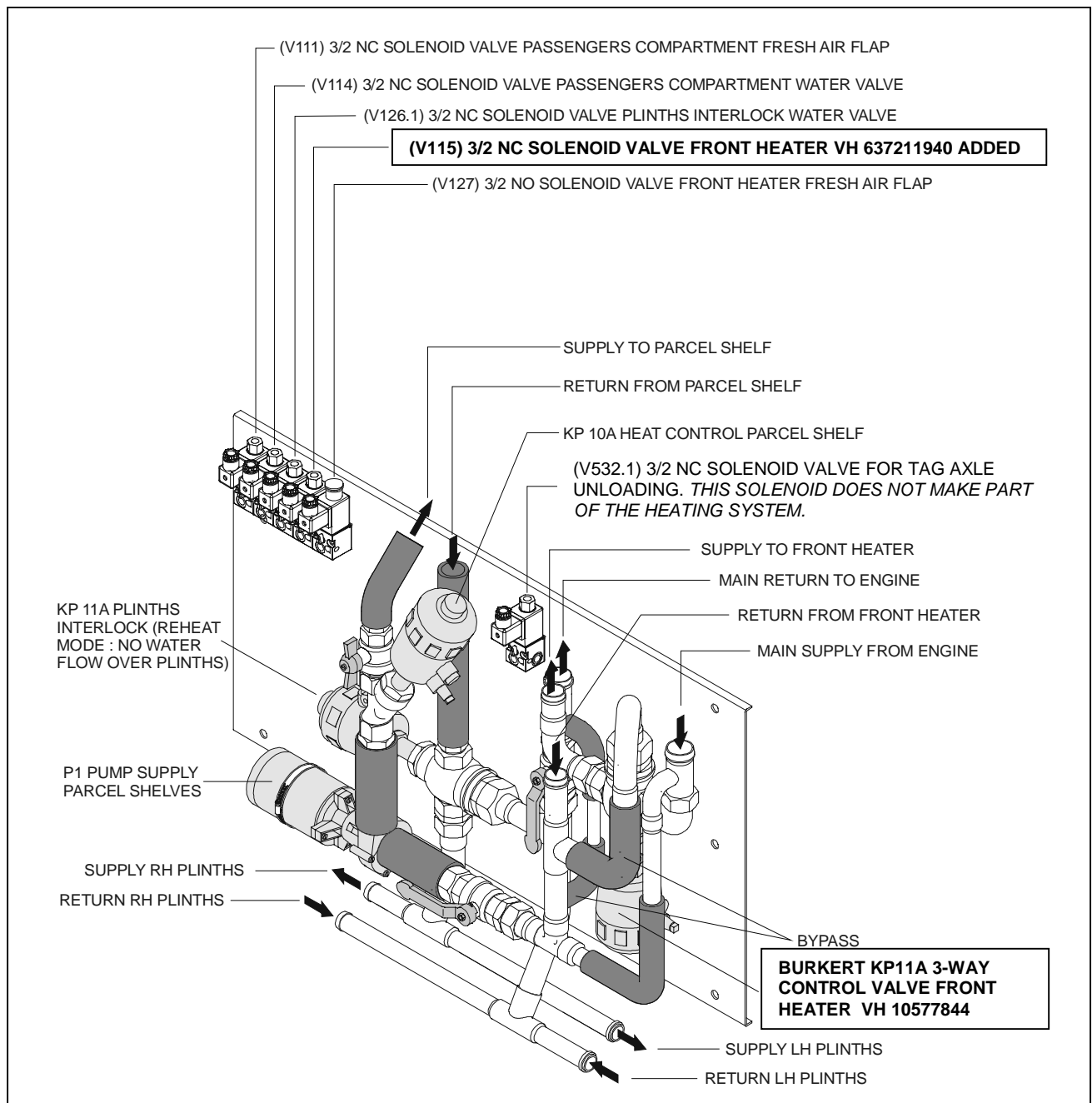


Figure 4: New heating valve and pump panel located at the rear of the luggage compartment. The pneumatically operated Burkert valve replaces the electrically driven Sonna valve. Note the modified tubing and added solenoid valve to accept the new valve.

PROCEDURE:

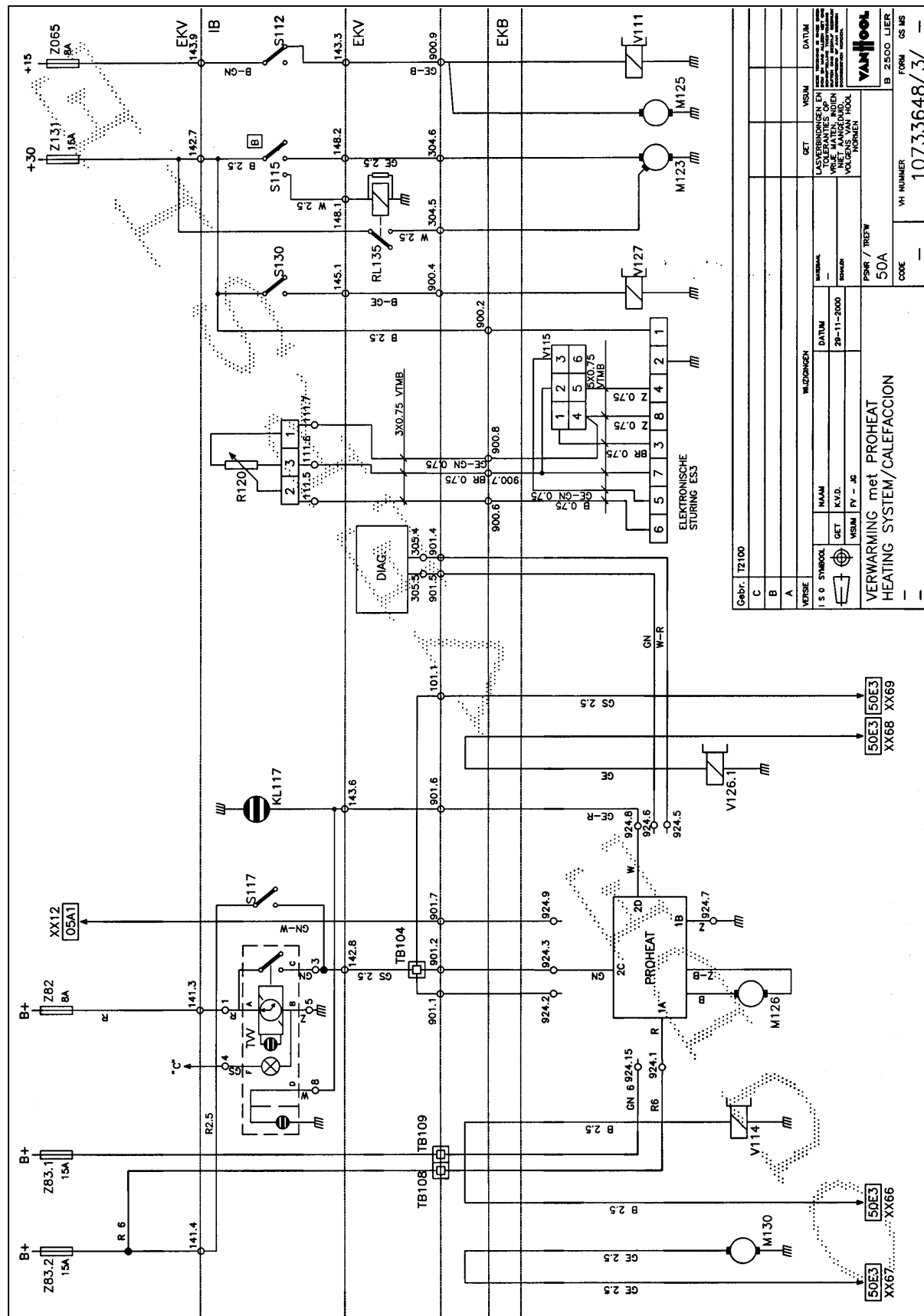
Except for minor details, the procedures to operate the coach HVAC system as described in Van Hool Operator's Guide Book MM381D remain unchanged.

Procedure complete.

SERVICE INFORMATION:

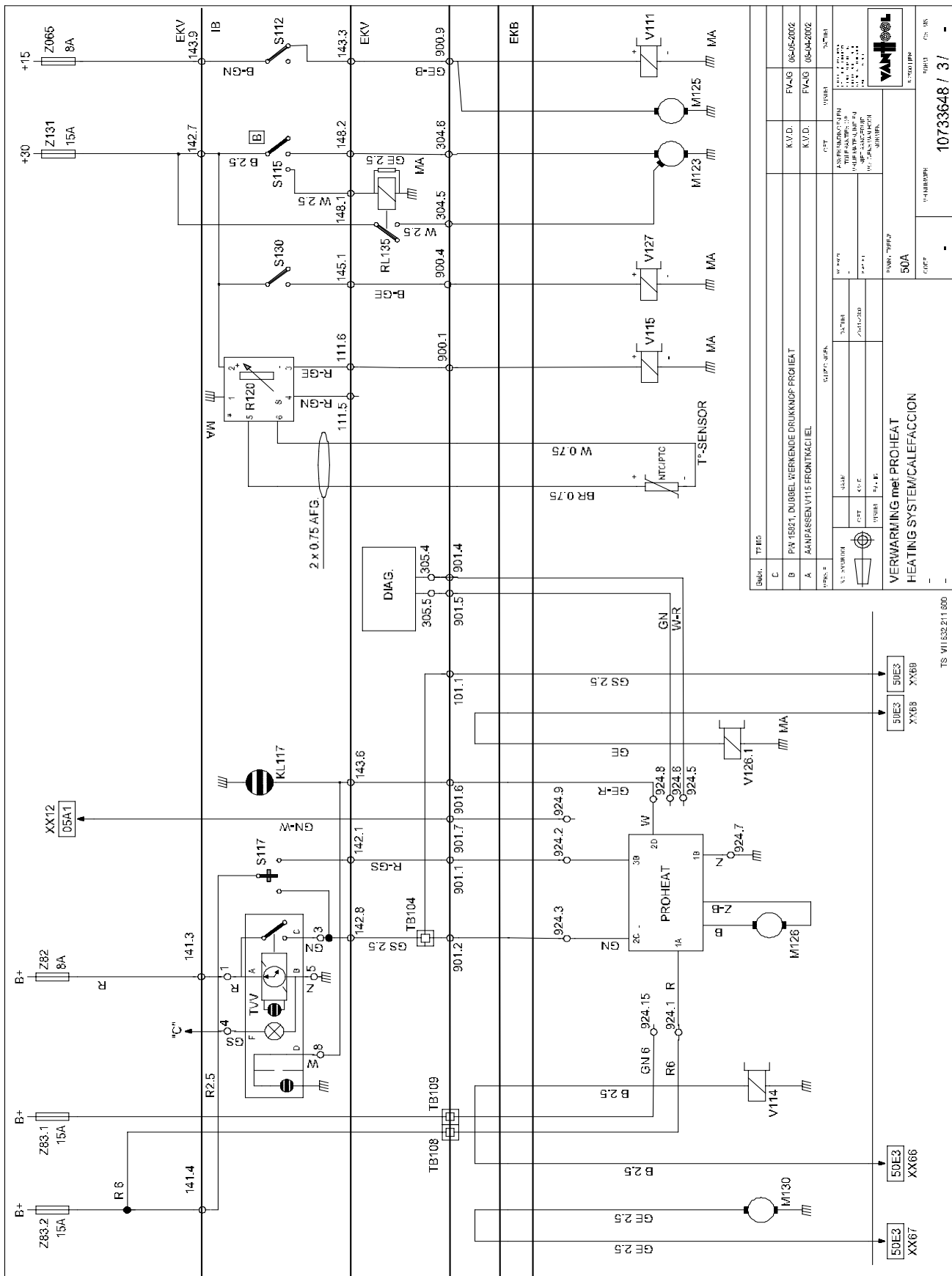
Service Bulletins are issued to supplement or supersede information in the Van Hool manuals. Note Service Bulletin number, date and subject on the register at the end of the relevant chapter(s). File Service Bulletin separately for future reference.

Attachment 1: Old spec heating system - electrical schematic

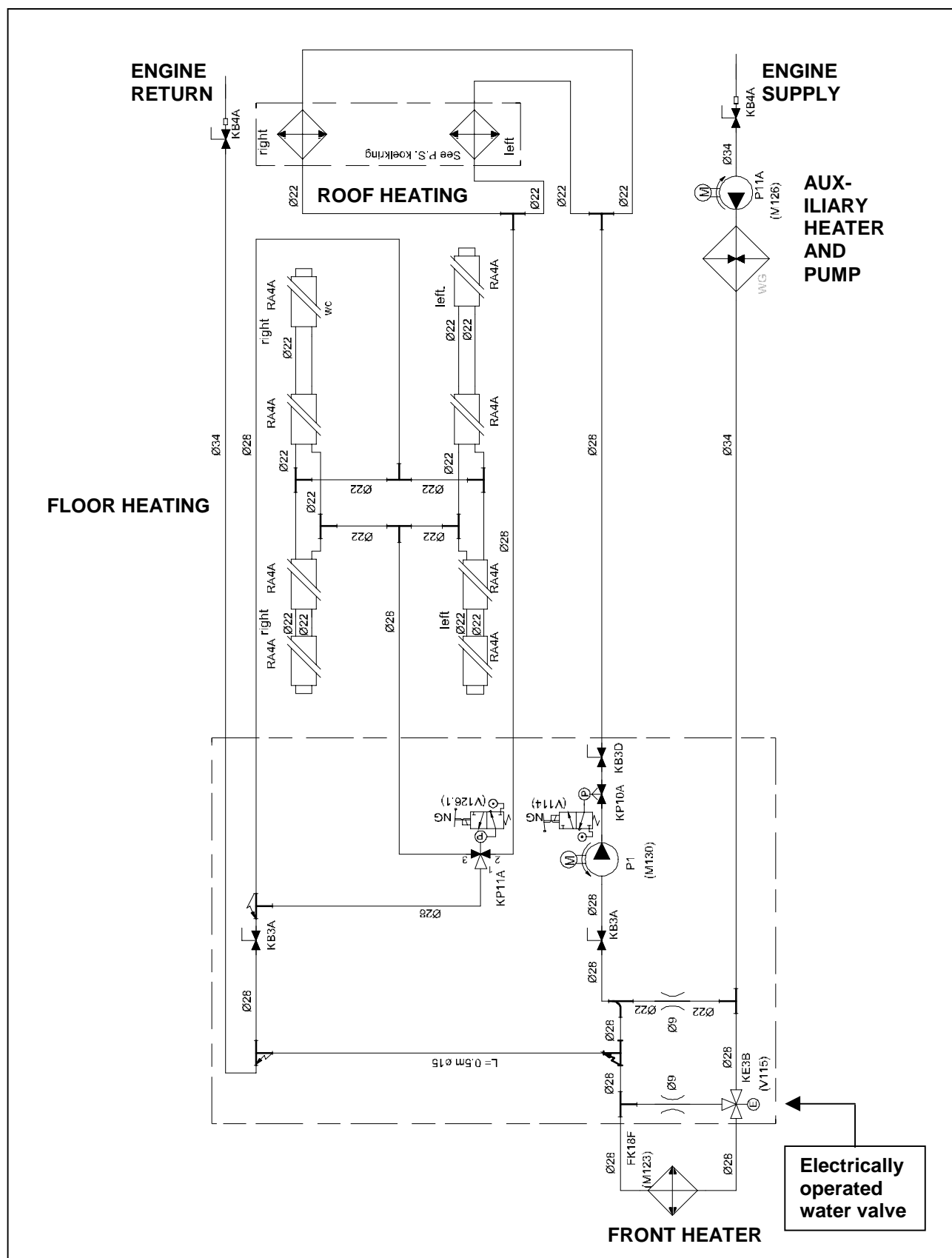


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|--|------------|----------|-------------|--------|------------|
| Gebr. T2100 | | WILCOXEN | | DATE | |
| VERSE | ISO SYMBOL | NAAM | GET | K.V.D. | DATE |
| C | | | | | 29-11-2000 |
| B | | | | | |
| A | | | | | |
| VERWARMING met PROHEAT HEATING SYSTEM/CALEFACCION | | | PSNR / TRFV | | |
| 50A | | | 50A | | |
| CODE | | | FORM GS MS | | |
| 10733648/3/ | | | B 2500 LIER | | |

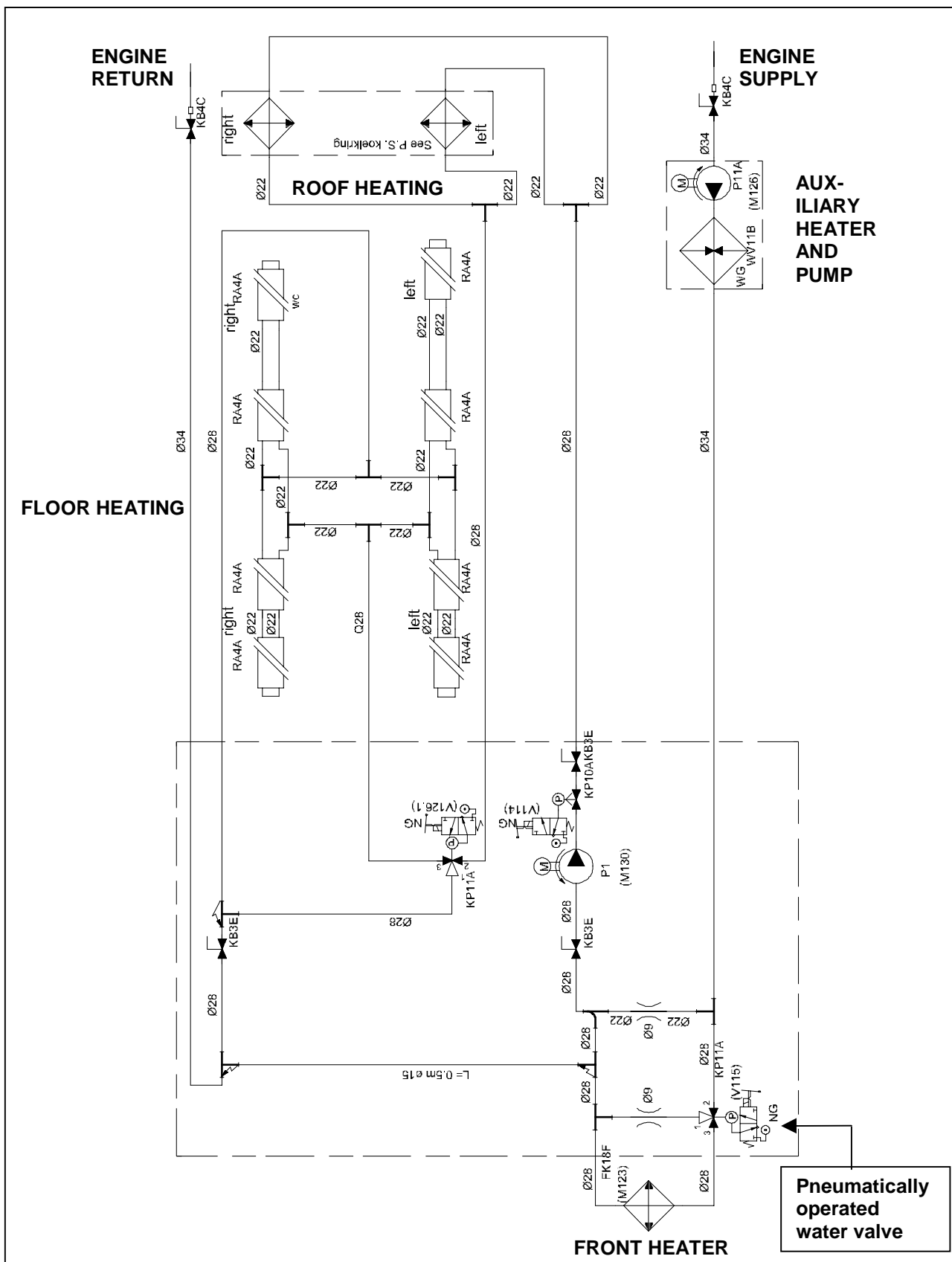
Attachment 2: New spec heating system - electrical schematic



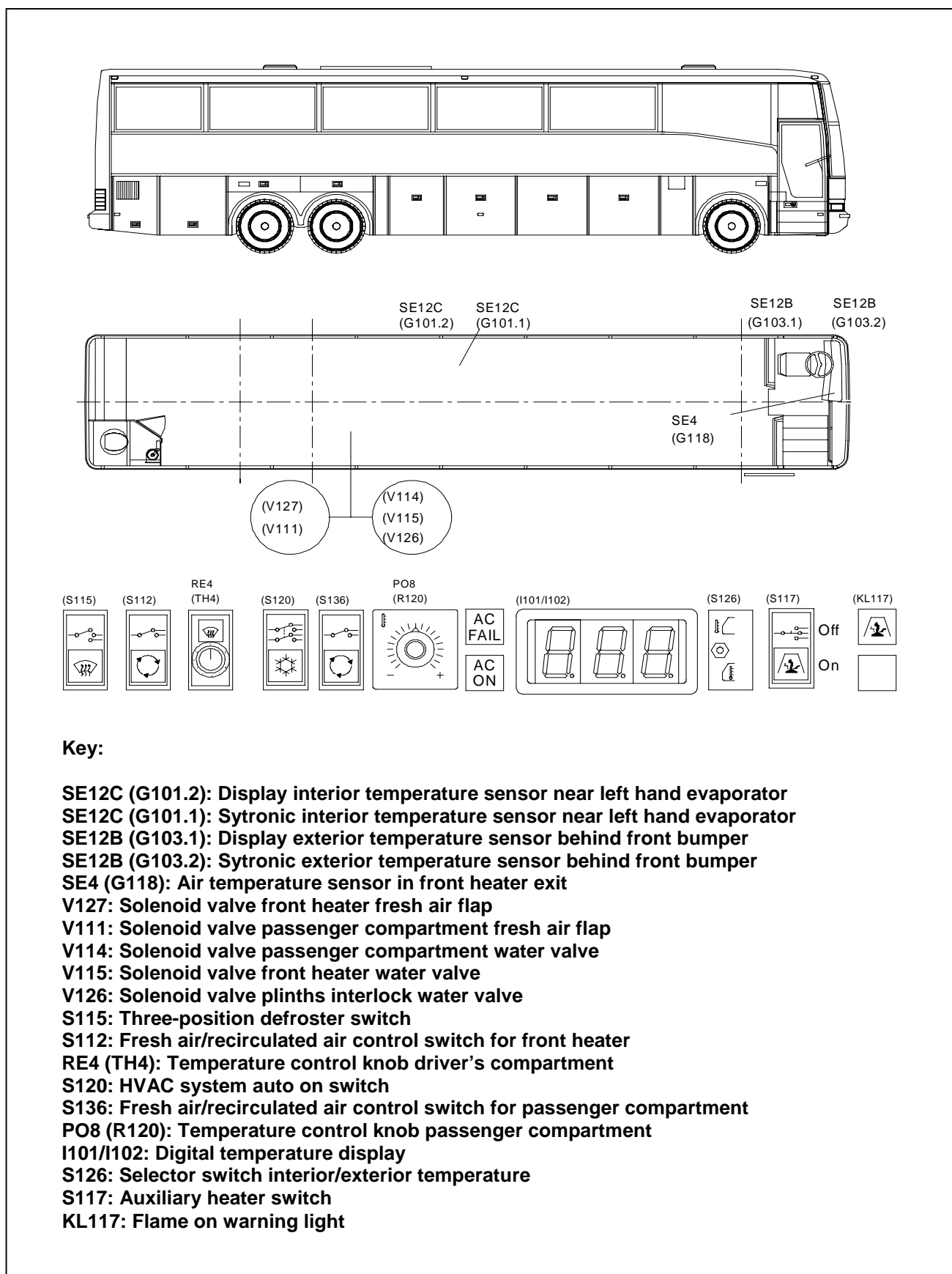
Attachment 3: Old spec heating system - pneumatics



Attachment 4: New spec heating system - pneumatics



Attachment 5: Location of sensors and water valves. Latest temp controls and symbols, including Proheat built-in timer



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