



SERVICE BULLETIN No.1118

For ABC Customer Care & Parts Source -staff only

Do not circulate to listed addressees

COACH MODEL	: S2145
BULLETIN TYPE	: Product Improvement
MANUAL & SECTION	: Maintenance Manual: Chapter 10 – HVAC System Spare Parts Manual: Section 772309 – Air Conditioning
PARTS BOOK REVISION	: Yes
DATE	: September 19th, 2003
SUBJECT	: Front unit compressor refrigerant circuit
TERMS & CONDITIONS	: Parts and labor allowance will be provided as per warranty information in this Bulletin.

APPLICATION:

The modification subject of this Bulletin is applicable to following units:

Model	Engine	VIN
S2145	N/A	42203 → 42204, 42207, 42210 → 42213, 42215 → 42219, 42221, 42223

DESCRIPTION:

1. This Service Bulletin addresses following HVAC issues:

- On the above-mentioned T2100 Shell units, the service fittings of the driver's air-conditioning compressor should be replaced by items appropriate for refrigerant 134A.
- To improve the reliability of the HVAC compressor on the above-mentioned shell units, it is necessary to install the following:
 - Next to the compressor: oil separator VH#10747694, complete with injector
 - In the suction line: liquid separator VH#10747695, complete with shut-off valve

2. This Service Bulletin contains the drawings and a list of the parts required to do the conversion.

Service personnel: please read, initial and circulate.

Service Manager	Parts Manager	Warranty Administrator	Workshop Foreman	Service Technician

PARTS AND PRODUCTS:

- Order one kit VH 10874121 for one shell coach to modify. The kit is suited for S2145 units and contains the following parts:

Part No.	Description	Qty.
VH 10873520	Liquid separator mounting bracket	1
VH 10873629	Spacer, for VH 10873520	2
VH 660245406	Mounting bolt, M10x1.5x130 mm	2
VH 660207101	Nut, self-locking, M10x1.5 mm	2
VH 10535916	Return line, oil separator to compressor, refrigerant hose size 4	6.5 ft
VH 10549360	Feed line, compressor to oil separator, refrigerant hose size 10	#/10ft
VH 10549360	Return line, liquid separator to compressor, refrigerant hose size 10	#/10ft
VH 10580626	Fitting, straight, 7/8-14 UNF for refrigerant hose size 10	3
VH 10580627	Fitting, elbow, 7/8-14 UNF for refrigerant hose size 10	1
VH 10730241	Nipple, straight, 7/16-20 UNF, for refrigerant hose size 4	2
VH 10730245	Socket for refrigerant hose size 4	2
VH 10724457	Service fitting, elbow, 7/16, high pressure side	1
VH 10736022	Service fitting, elbow, 7/16, low pressure side	1
VH 10732995	Spare T for service fittings VH 10724457 and VH 10736022	2
VH 10747695	Liquid separator	1
VH 10792900	Oil separator	1
VH 10649666	Adapter, straight, 7/8 – 3/4 for VH 10792900	2
VH 10792904	Clamp, oil separator	1
VH 10792905	Adapter, straight, 7/16-20 UNF & 3/8-24 UNF, return line oil separator to compressor	1
VH 10792907	O-ring, to suit VH 10792905	1
VH 660553900	Sleeve for VH 10724457, VH 1010736022, VH10732992 and VH 107300241	8
VH 660553902	Sleeve for VH 10649666	2
VH 660553903	Sleeve for VH 10649666, VH 10580626 and VH 10580627	6

- Refrigerant system parts location: refer to attachment 4 of this Bulletin.
Sleeves to be installed with flared fittings.
- Parts may be obtained through regular channels.
- Parts disposition: discard according to applicable environmental regulations.

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.

WARRANTY INFORMATION:

1. Claim references:

- Causal part: VH 632803272
- Job code: E50209H

2. Terms and conditions:

Van Hool will accept warranty claims for this repair as follows:

Parts:

- Supply: parts may be obtained free of charge through regular channels.
- Disposition: discard parts according to applicable environmental regulations.

Labor allocation:

- A fixed number of 3.5 hours labor per unit repaired will be awarded.

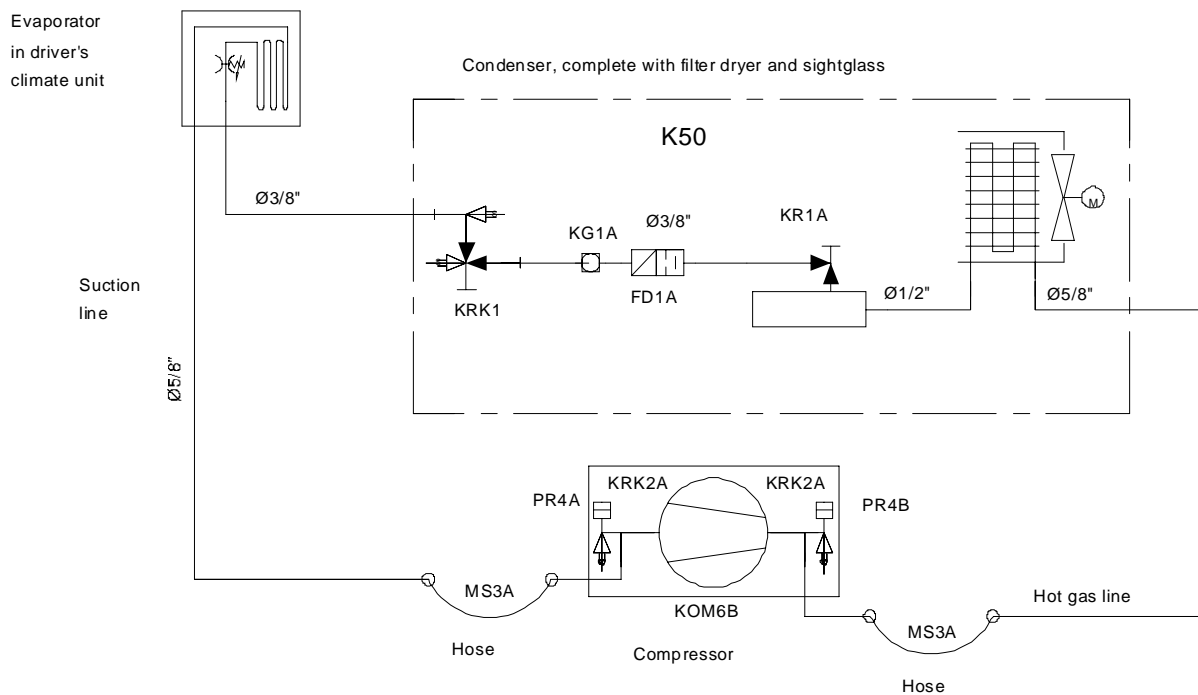
Campaign expiration date: Service Bulletin issue date + 1 year.

ATTACHMENT 1

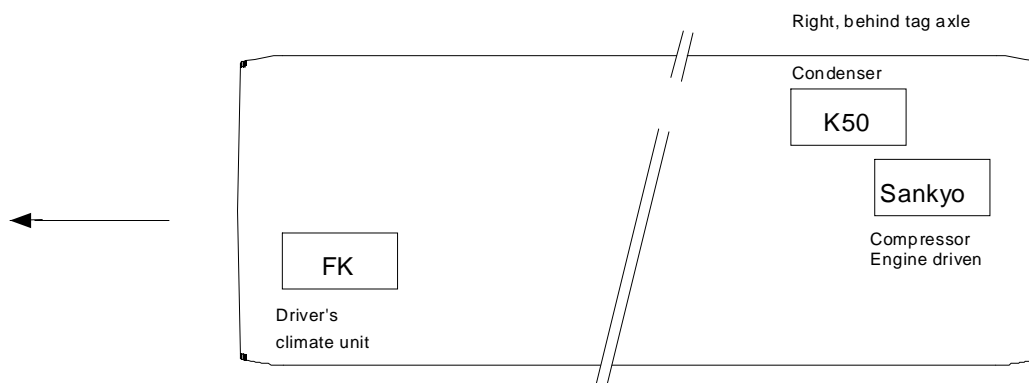
CIRCUIT DIAGRAM S2145 REFRIGERANT SYSTEM FOR DRIVER'S CLIMATE UNIT

System without:

- liquid separator VH 10747695
- oil separator VH 10792900



LOCATION MAIN COMPONENTS:

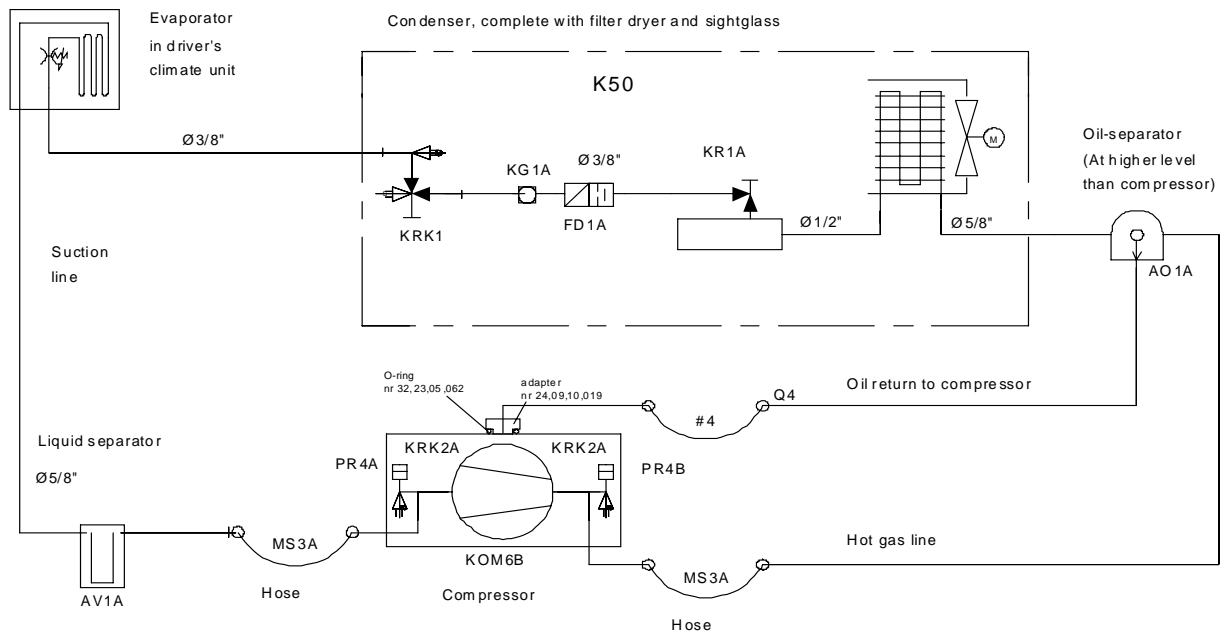


ATTACHMENT 2

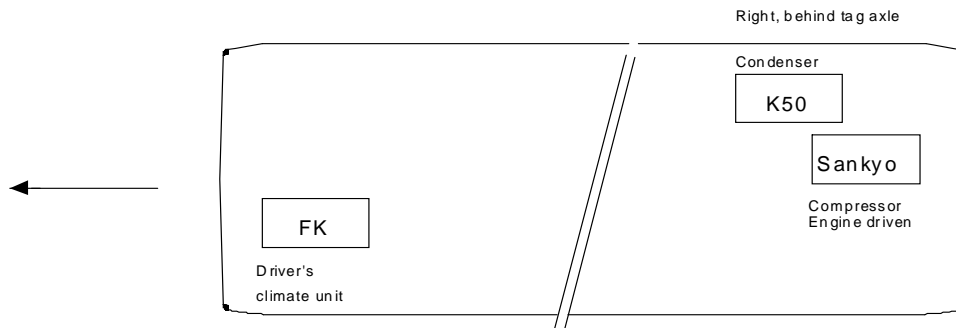
CIRCUIT DIAGRAM S2145 REFRIGERANT SYSTEM FOR DRIVER'S CLIMATE UNIT

System includes:

- liquid separator VH 10747695
- oil separator VH 10792900



LOCATION MAIN COMPONENTS:

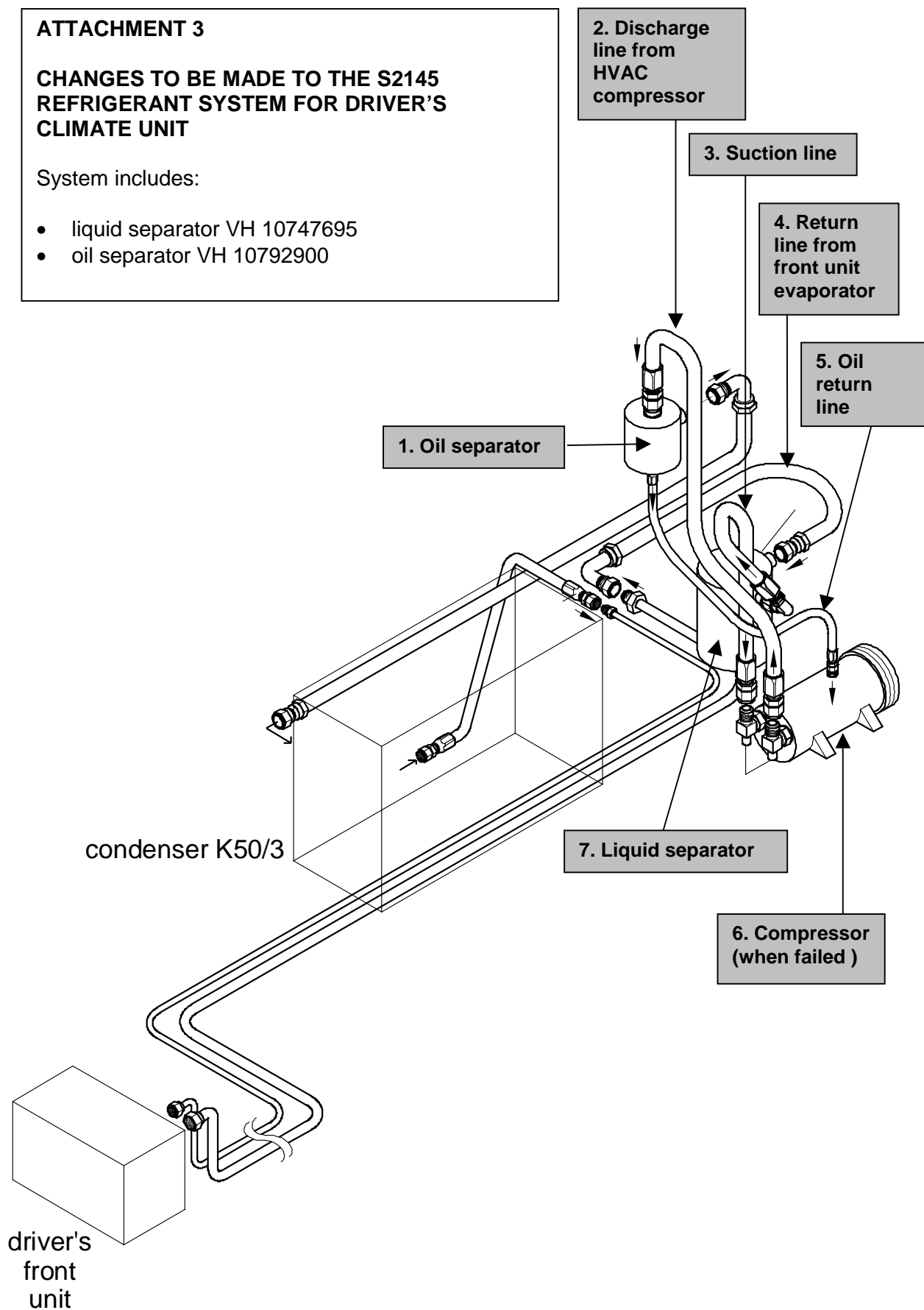


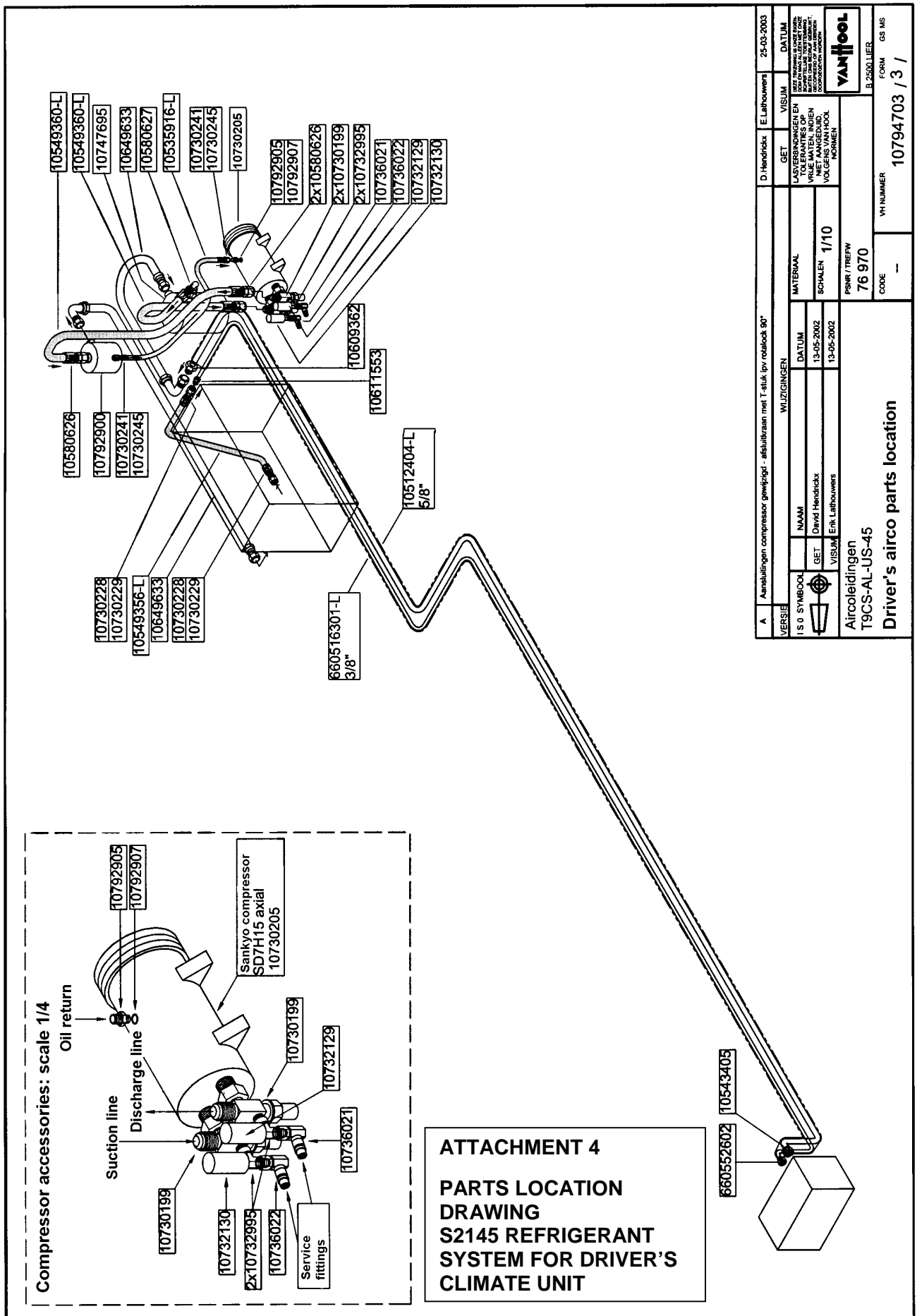
ATTACHMENT 3

CHANGES TO BE MADE TO THE S2145 REFRIGERANT SYSTEM FOR DRIVER'S CLIMATE UNIT

System includes:

- liquid separator VH 10747695
- oil separator VH 10792900





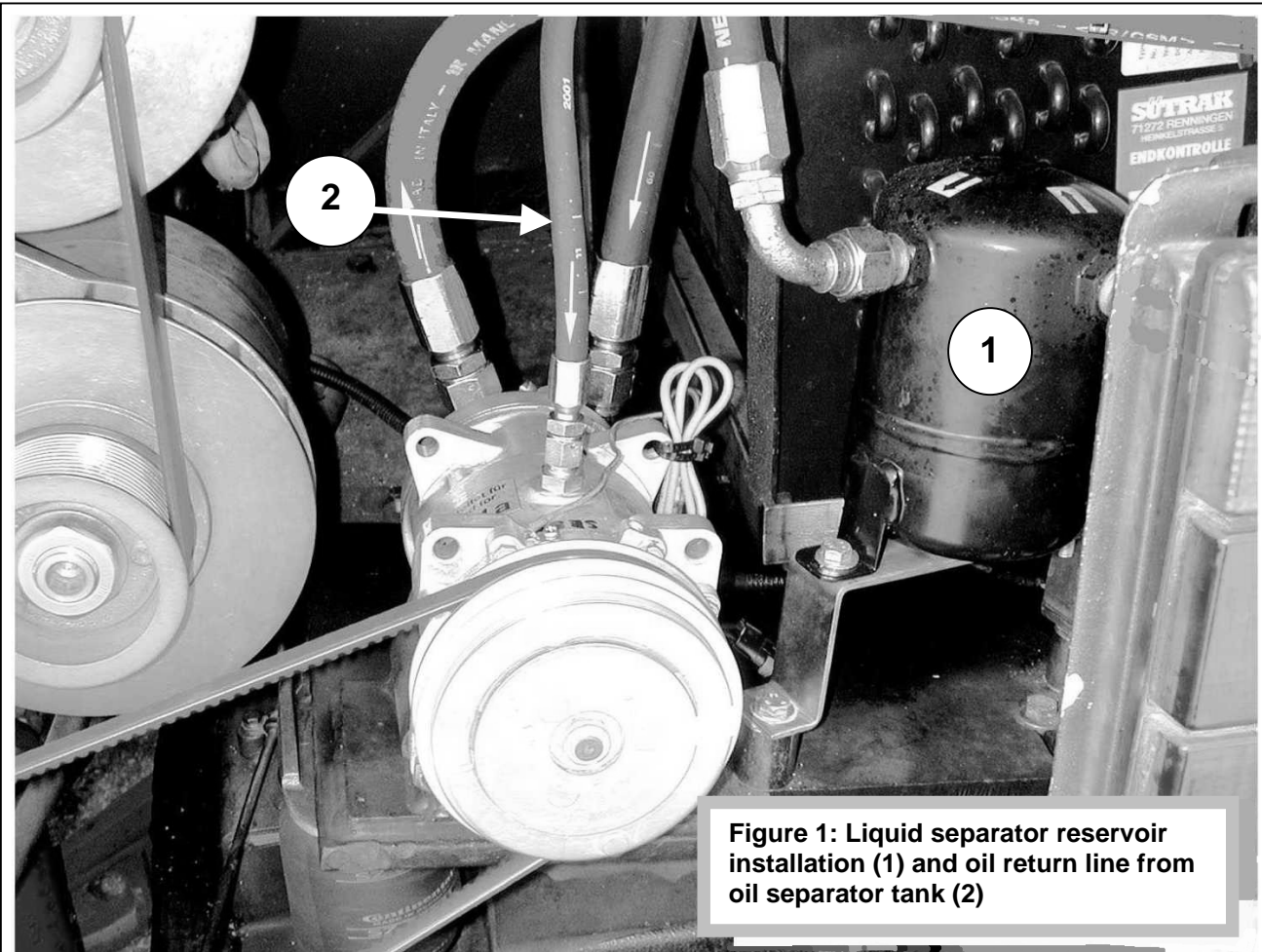


Figure 1: Liquid separator reservoir installation (1) and oil return line from oil separator tank (2)

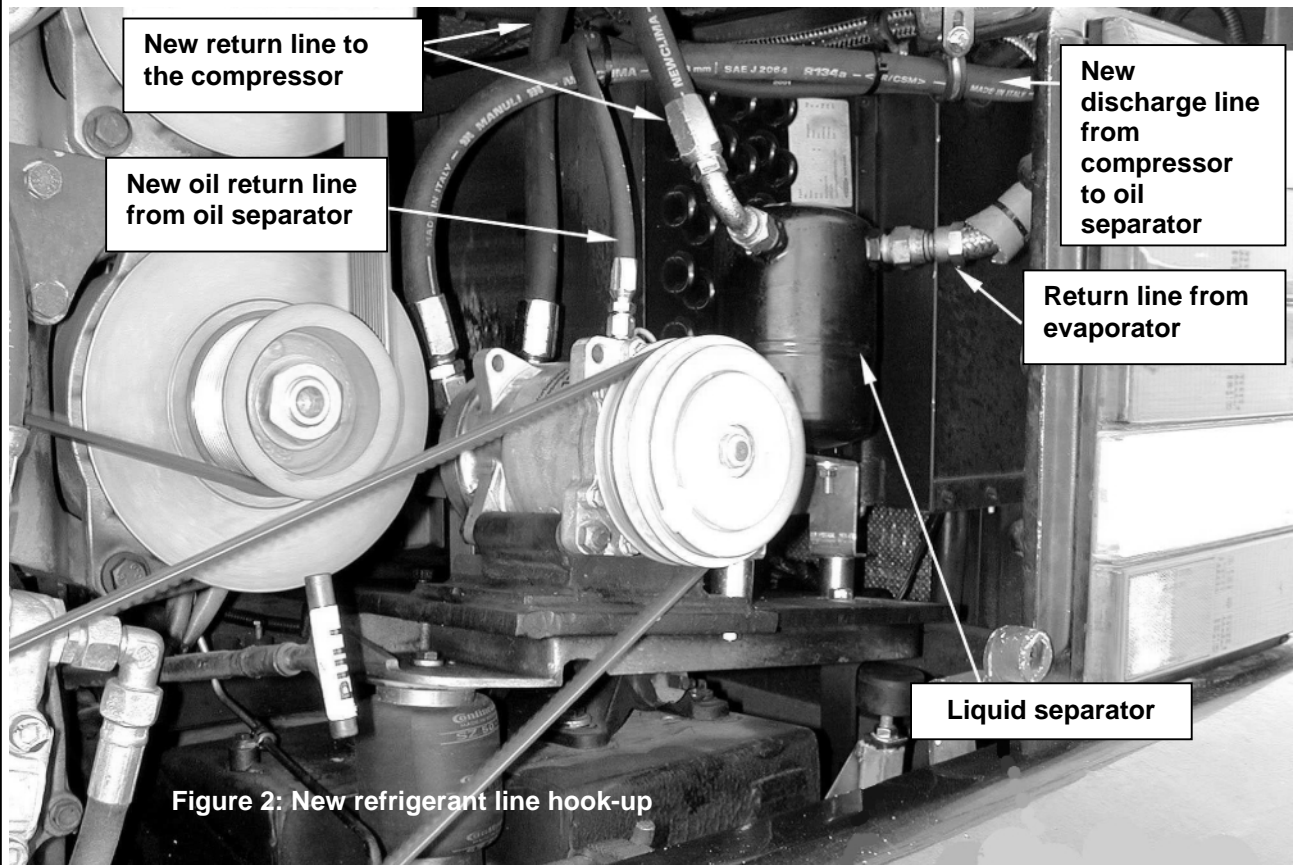
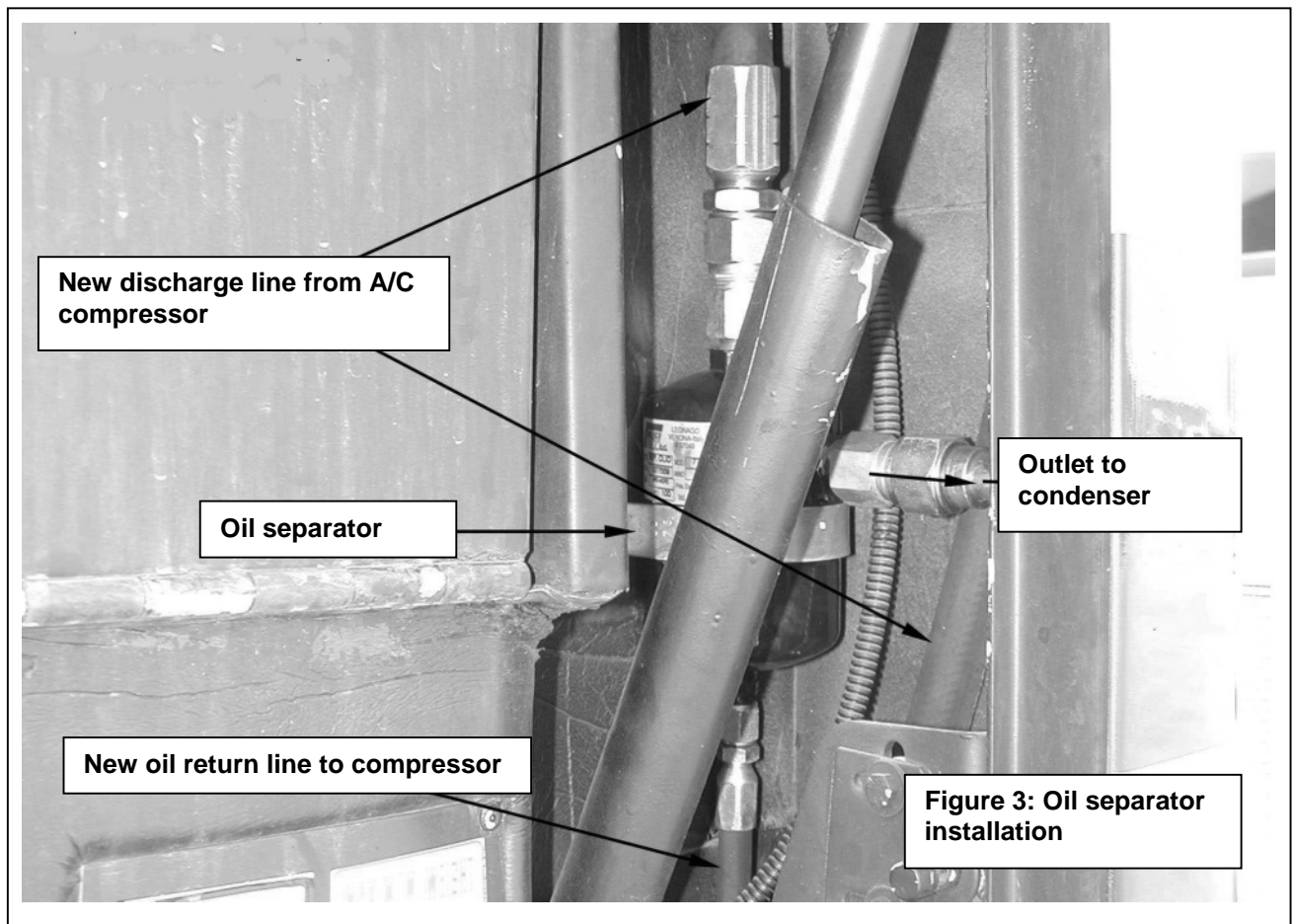


Figure 2: New refrigerant line hook-up



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