

# SS 581801 FCCC 10 Gallon DEF Header Service Replacement Additional Parts (298)

## Applicable Vehicles

FCCC== S2RV, S2C, XC, MT-45, MT-55 Step Vans

## Symptoms

10 Gallon DEF Tank Header failure.

## Issue

Original SSI DEF Header, which has been discontinued, has failed and needs to be replaced. Replacement KUS DEF header must be used as replacement, but MAY require some additional parts and re-routing of DEF Coolant lines and DEF lines to the new KUS DEF Header 04-37614-000.

## Solution

See the attachments for Install Drawings for the re-routing of DEF Coolant lines & DEF lines to the new KUS DEF Header. **Attachments are application specific.**

S2RV: See D04-37577-001 & D04-37587-001 attachments.

S2C: See D04-37578-001 & D04-37588-001 attachments.

XC & Step Vans: See 10 Gal FCCC KUS DEF Header Service Notes attachment.

Normal Warranty would apply IF vehicle is eligible.

Labels :

Busses

RV and Motorhomes

Step Vans

Add tags

## Attachments



0 Kudos

Comment

1. NEW KUS HEADER DEF ASSEMBLY CHANGES THE ROUTING FOR 23V AT POOL 12.

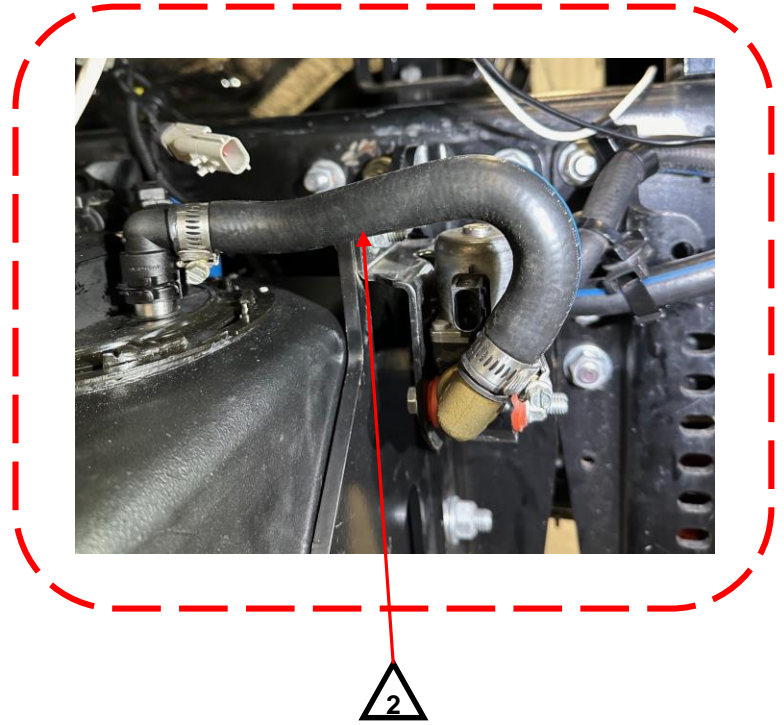
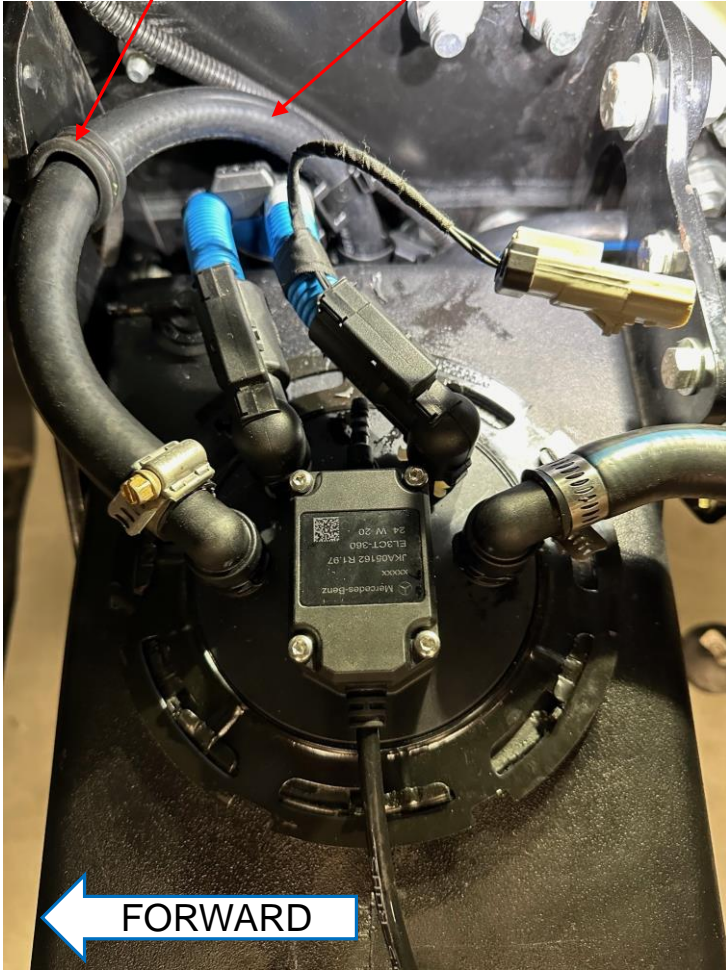


2. FLIP ORIENTATION OF ORIGINAL HOSE.



3. NEW FLEX/BULK HOSE CUT TO LENGTH TO BE ROUTED UP AND AROUND DEF LINES.

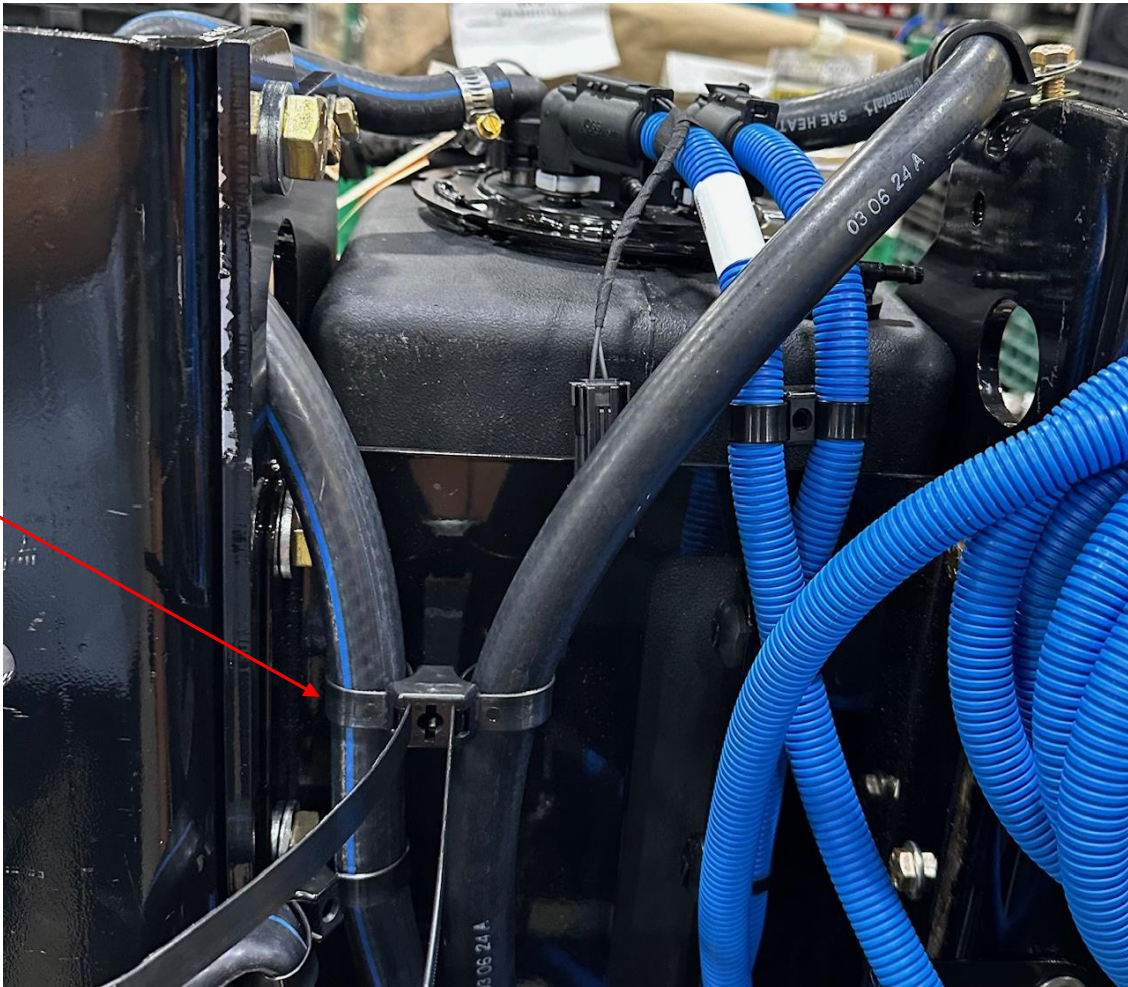
② ③ ④ ⑤  
2X      ① △ ③



D04-37577

FORWARD 

6



ROUTING ALONG FRAME RAIL BEHIND THE DEF TANK.

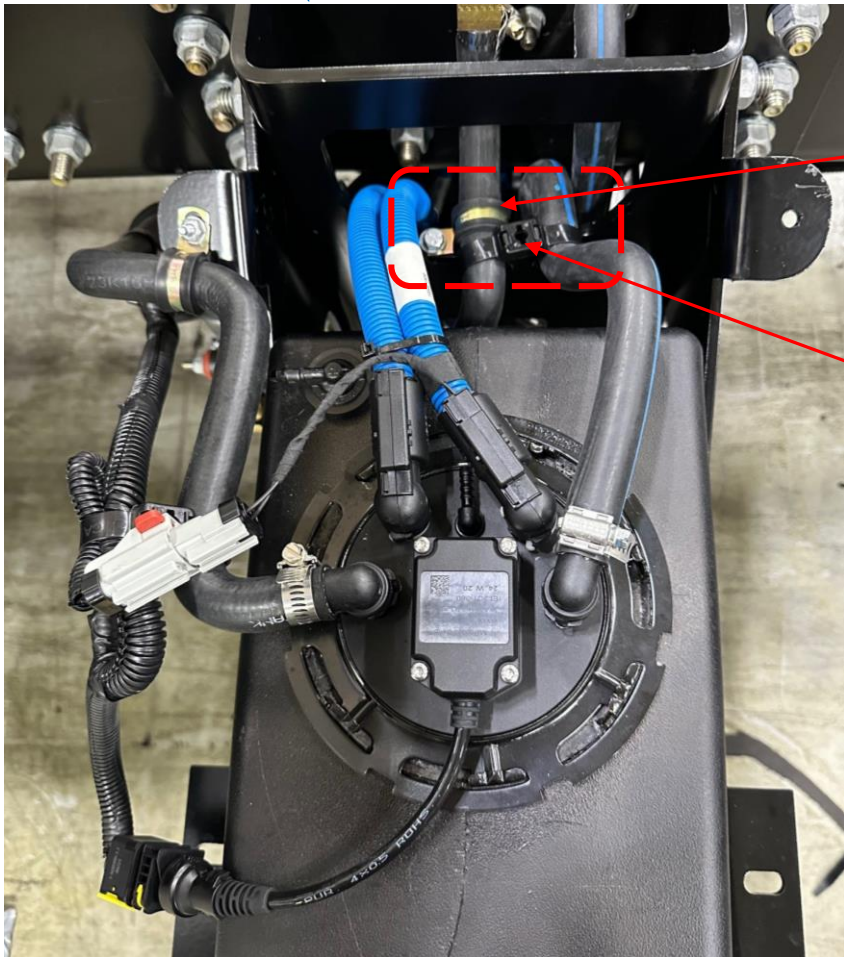
D04-37577

1. NEW KUS HEADER DEF ASSEMBLY CHANGES THE ROUTING FOR 23V AT POOL 12.

2. ORIGINAL COOLANT LINES ARE USED, THE ROUTING CHANGES.

3. COOLANT LINES ARE NOT SECURED TOGETHER WITH THE P CLIP ANYMORE, BUTTERFLY BAND (ITEM 1) COOLANT LINES TOGETHER.

← FORWARD



2

1

3

1. NEW KUS HEADER DEF ASSEMBLY CHANGES THE ROUTING FOR 23W AT POOL 12 AND ON THE LINE.



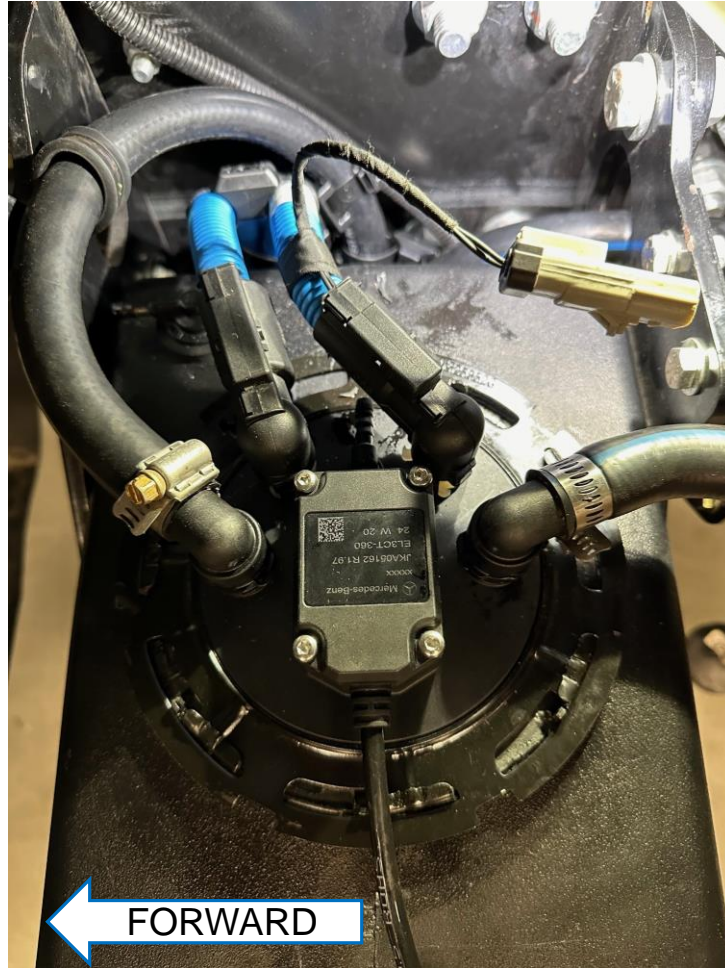
2. DEF LINE ROUTING TO BE UPDATED. ENSURE THAT THERE IS NO RUBBING ALONG DEF TANK BRACKETS.

A1

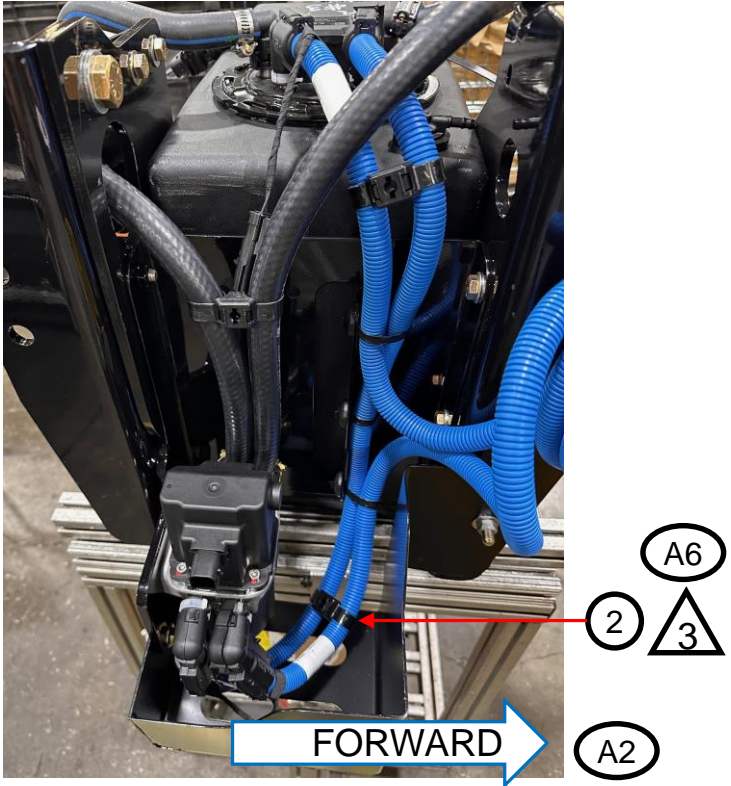
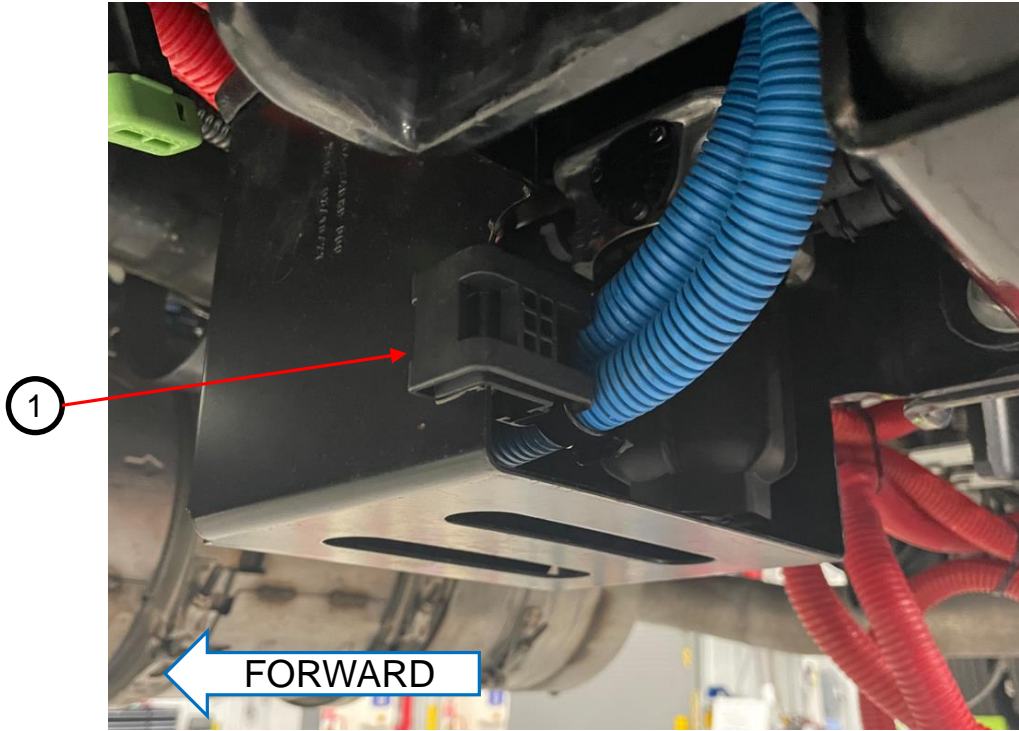


3. SECURE DEF LINES AND ENSURE THE LINES ARE CLEAR OF THE DRIVESHAFT AND AFTER TREATMENT.

A4



D04-37587

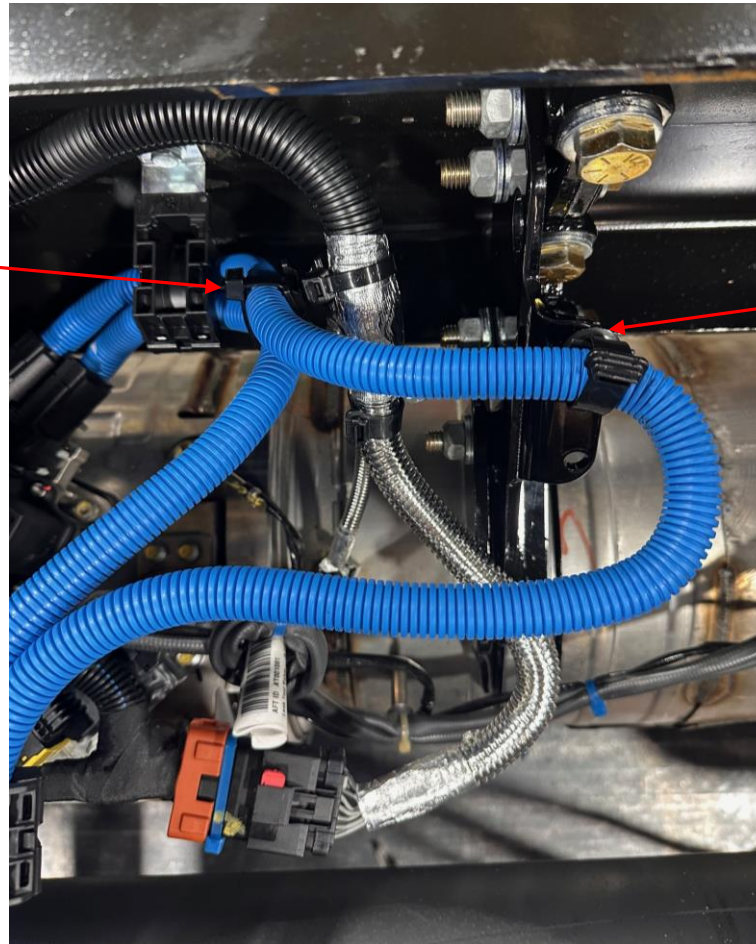


D04-37587

POOL 12 (A5)

← FORWARD

2X (4)  
(5)  
(A4) (3)



(3) (A4)

BETWEEN THE FRAME RAILS

D04-37587

ASSEMBLY LINE

(A3)

1. NEW KUS HEADER DEF ASSEMBLY CHANGES THE ROUTING FOR 23W AT POOL 12 AND ON THE LINE..



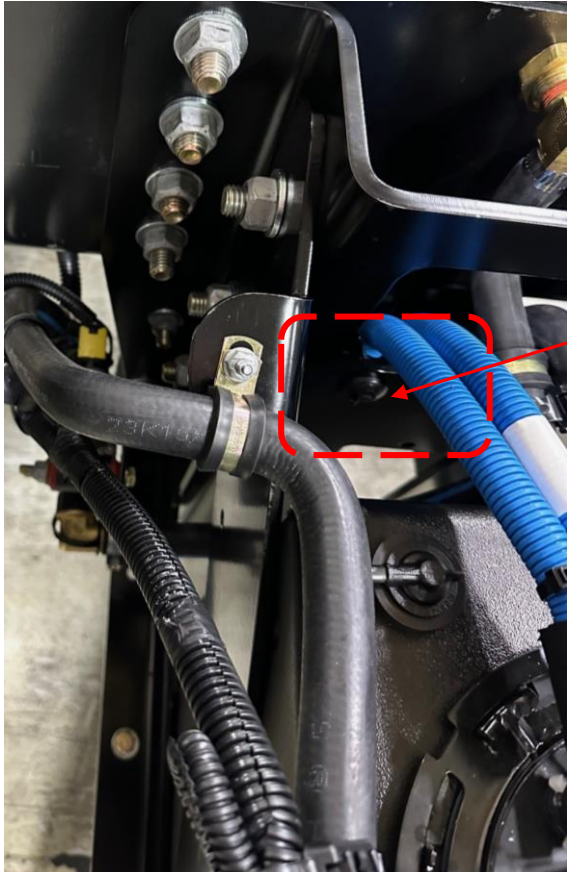
2. ROUTE DEF LINES TOGETHER WITH TIE BAND (ITEM 1).



3. MOVE BUTTON BAND (IN ORIGINAL BILL).

4. PULL DEF LINES ALL THE WAY THROUGH THE FRAME RAILS AND FOLLOW STANDARD ROUTING TO SECURE SLACK.

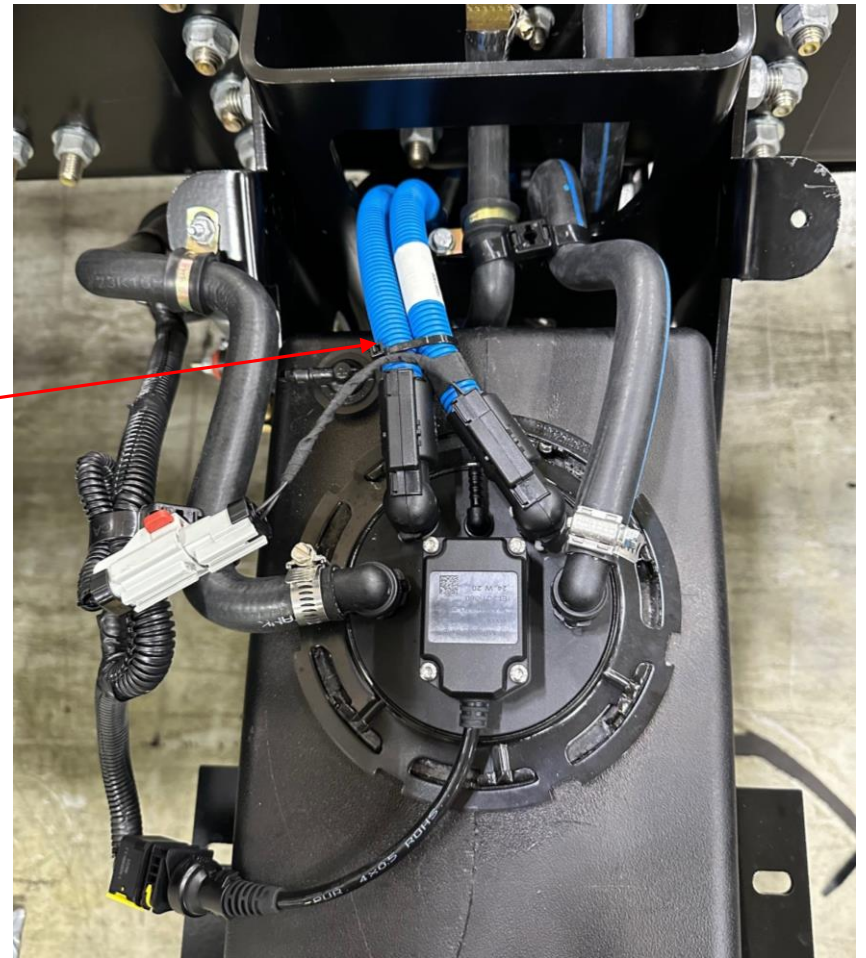
← FORWARD



3

1

2



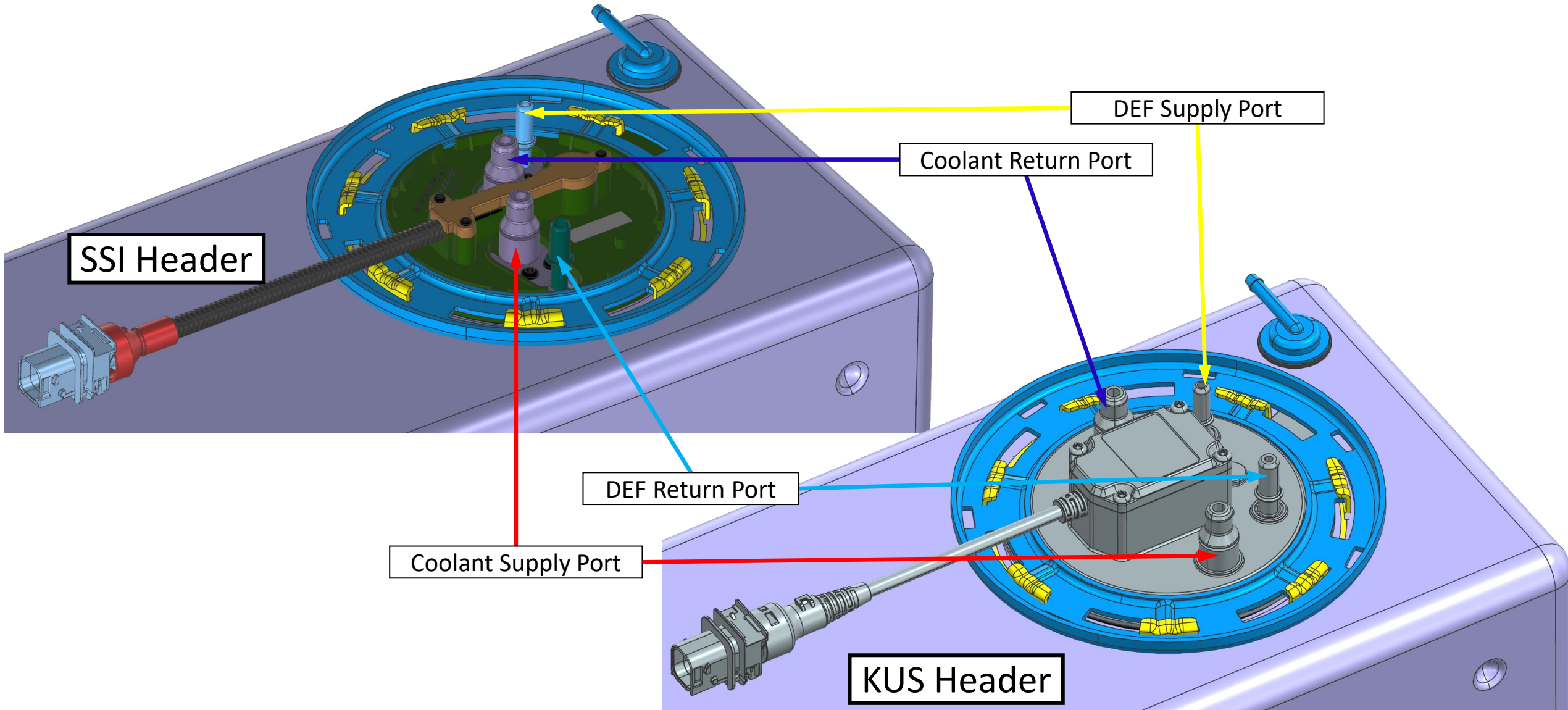


## 10 Gallon KUS DEF Header Service Notes

1. [WIV Coolant Lines](#)
2. [WIV DEF Lines](#)
3. [X Line Coolant Lines](#)
4. [X Line DEF Lines](#)

Freightliner Custom Chassis Corp.

# DEF Tank Header Comparison





# 1. WIV Coolant Lines

Freightliner Custom Chassis Corp.

SSI Bill	KUS Bill	SSI Install	KUS Install	Page
23V-C00659	23V-C00665	D04-36747-000	D04-37483-000	5-6
23V-C00660	23V-C00666			
23V-C00661	23V-C00667	D04-36910-000	D04-37490-000	7
23V-C00662	23V-C00668			
23V-C00663	23V-C00669	D04-36910-001	D04-37490-001	7
23V-C00664	23V-C00670			
23V-C05390	23V-C07100	D04-36841-000	D04-37484-000	8
23V-C05391	23V-C07101			
23V-C05396	23V-C07106	D04-36857-000	D04-37488-000	9
23V-C05397	23V-C07107			
23V-C05394	23V-C07104	D04-36857-001	D04-37488-001	10
23V-C05395	23V-C07105			
23V-C05392	23V-C07102	D04-36857-002	D04-37488-002	11
23V-C05393	23V-C07103			

SSI Bill	KUS Bill	SSI Install	KUS Install	Page
23V-C05398	23V-C07108	D04-36851-000	D04-37485-000	12
23V-C05906	23V-C05918			
23V-C05399	23V-C07109	D04-36851-001	D04-37485-001	12
23V-C05907	23V-C05919			
23V-C05904	23V-C05916	D04-36852-000	D04-37486-000	13
23V-C05905	23V-C05917			
23V-C05900	23V-C05912	D04-36852-001	D04-37486-001	13
23V-C05901	23V-C05913			
23V-C05902	23V-C05914	D04-36853-000	D04-37487-000	14
23V-C05903	23V-C05915			
23V-C05908	23V-C05920	D04-36870-000	D04-37489-000	15-16
23V-C05910	23V-C05922			
23V-C05909	23V-C05921	D04-36870-001	D04-37489-001	15-16
23V-C05911	23V-C05923			

SSI Bill	KUS Bill	SSI Install	KUS Install
23V-C00659	23V-C00665	D04-36747-000	D04-37483-000
23V-C00660	23V-C00666		

Remove button bands

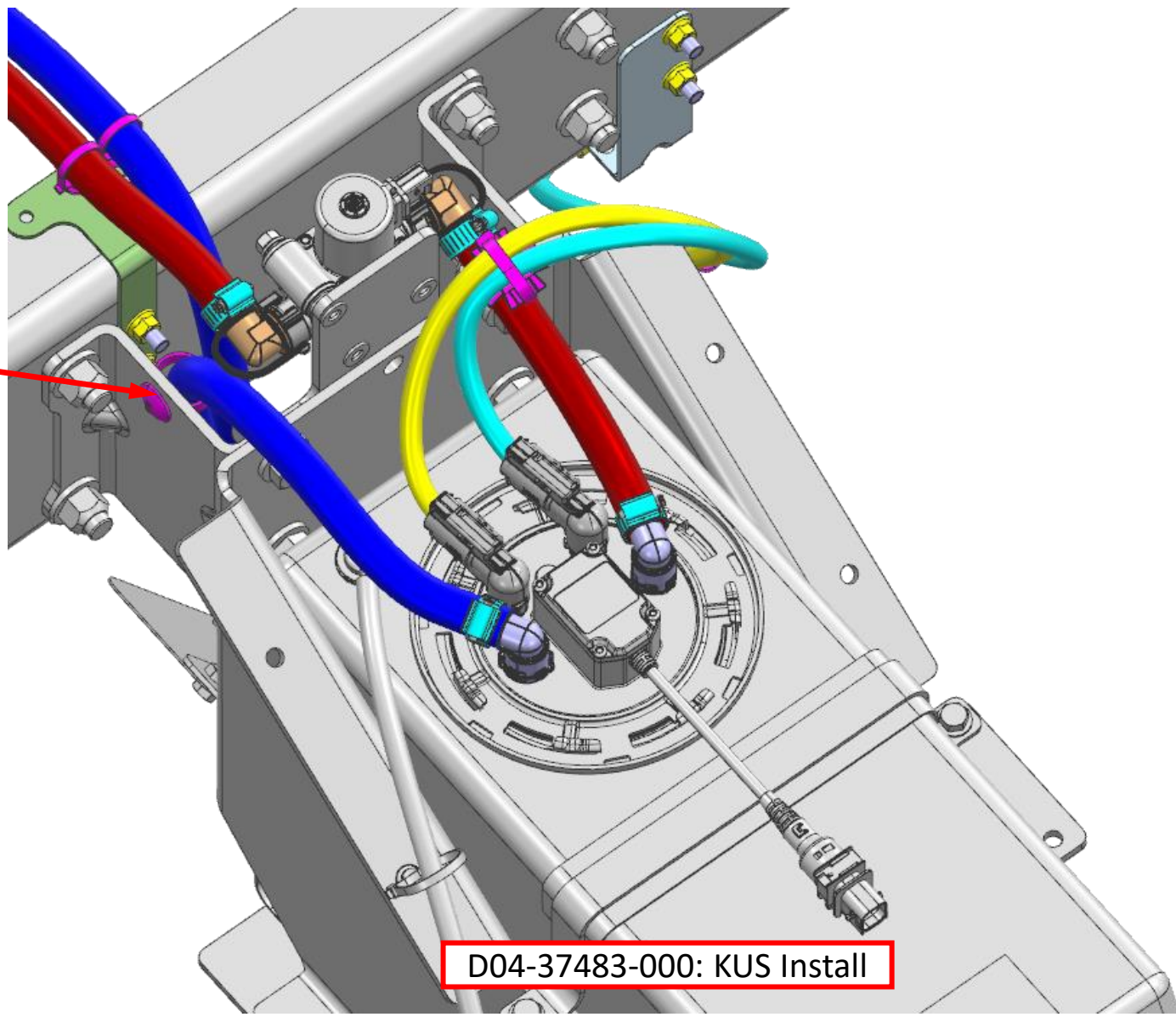
Coolant supply and DEF supply & return line clipping  
 1x 23-12866-001  
 2x 23-09796-629

D04-36747-000: SSI Install

D04-37483-000: KUS Install  
 (continued on next page)  
 (see 23W-C00543/44 and D04-37494-000/-001 )

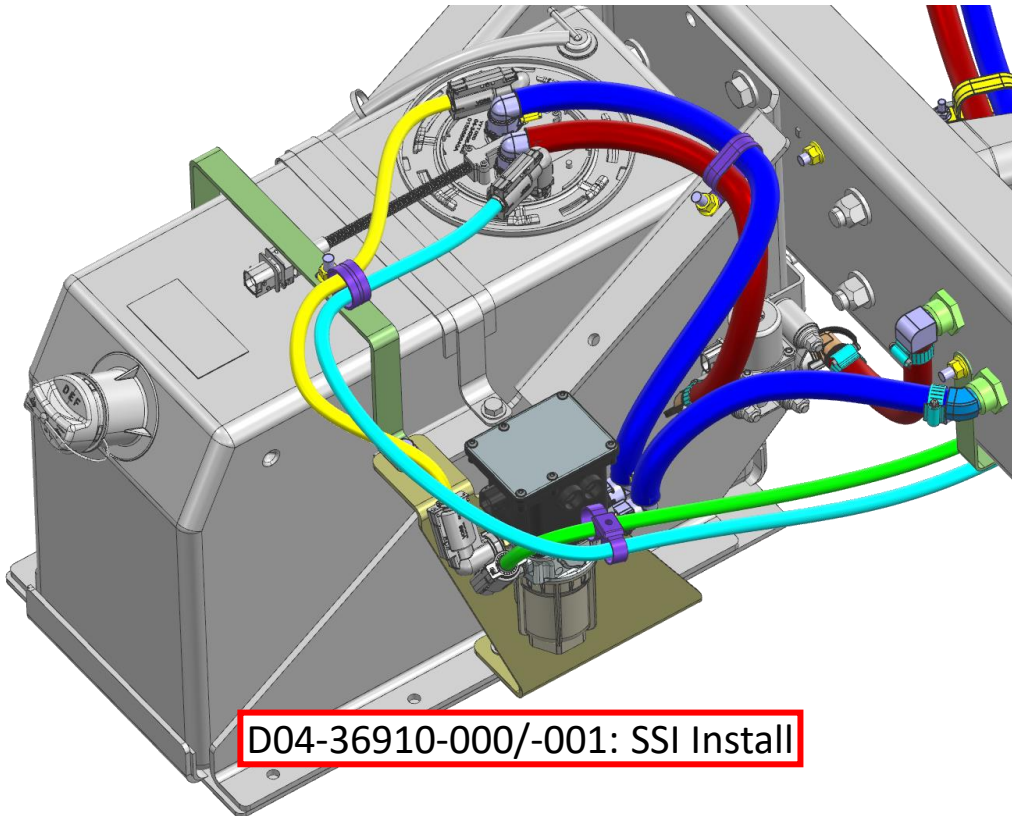
SSI Bill	KUS Bill	SSI Install	KUS Install
23V-C00659	23V-C00665	D04-36747-000	D04-37483-000
23V-C00660	23V-C00666		

Coolant return line clipping  
1x 23-12069-001

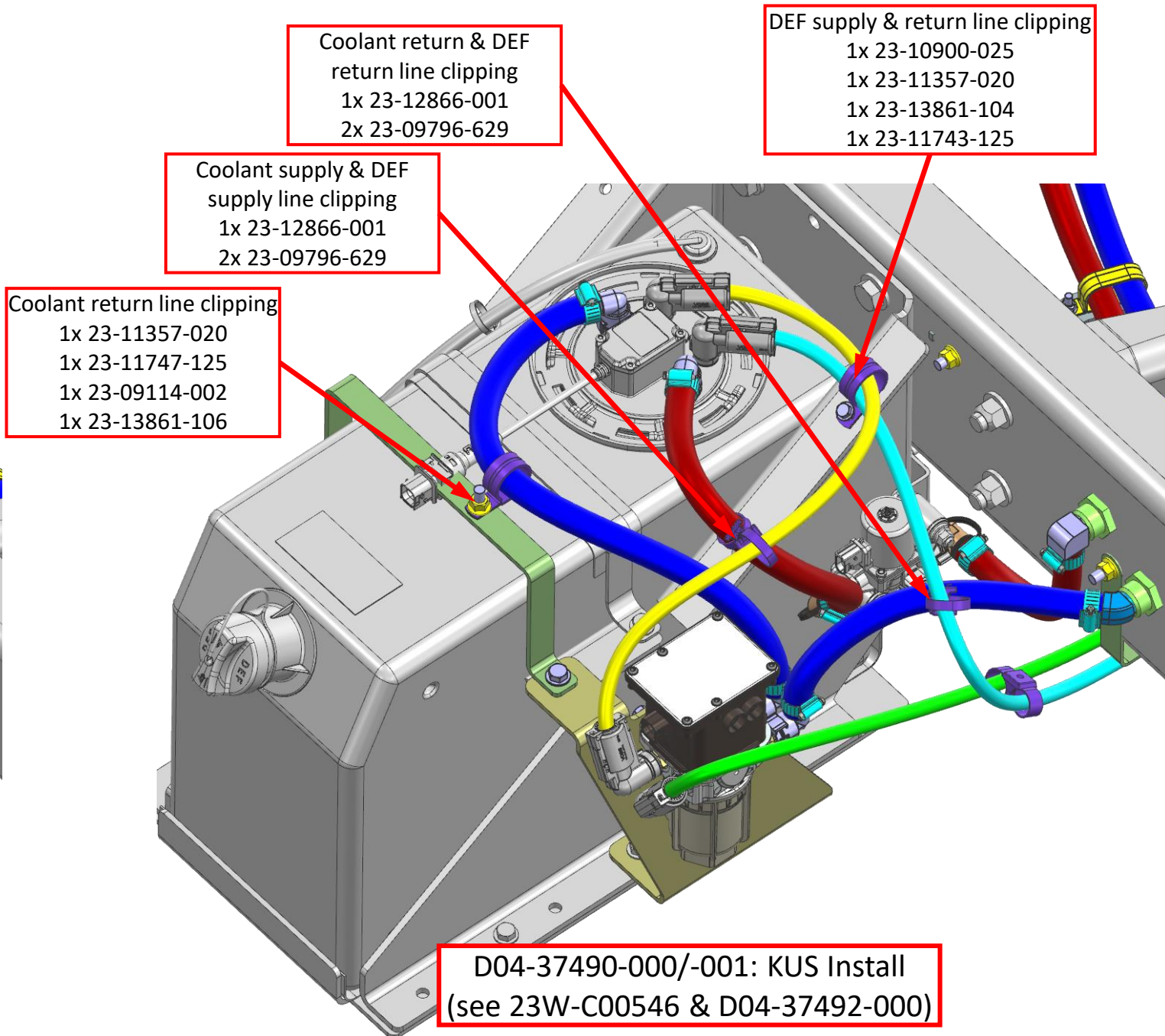


D04-37483-000: KUS Install

SSI Bill	KUS Bill	SSI Install	KUS Install
23V-C00661	23V-C00667	D04-36910-000	D04-37490-000
23V-C00662	23V-C00668		
23V-C00663	23V-C00669	D04-36910-001	D04-37490-001
23V-C00664	23V-C00670		



D04-36910-000/-001: SSI Install



Coolant return & DEF return line clipping  
 1x 23-12866-001  
 2x 23-09796-629

DEF supply & return line clipping  
 1x 23-10900-025  
 1x 23-11357-020  
 1x 23-13861-104  
 1x 23-11743-125

Coolant supply & DEF supply line clipping  
 1x 23-12866-001  
 2x 23-09796-629

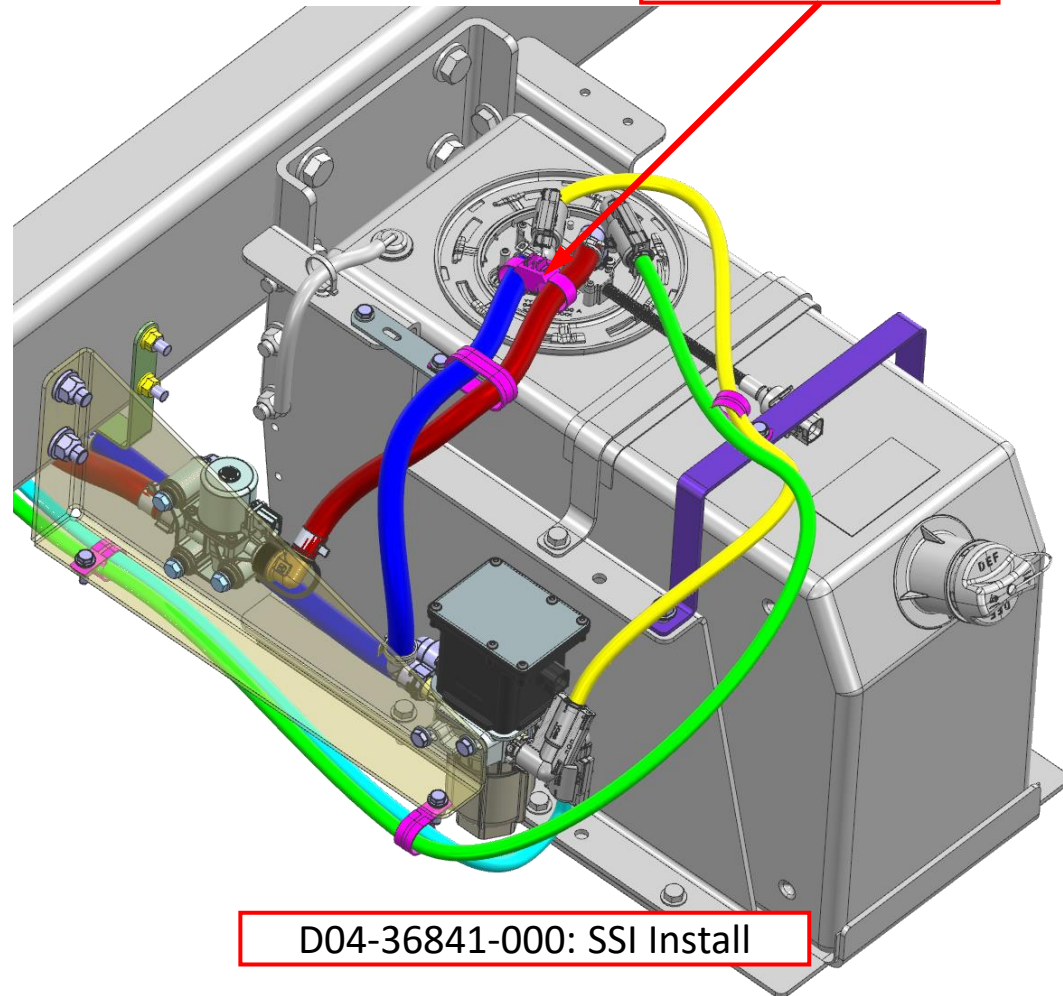
Coolant return line clipping  
 1x 23-11357-020  
 1x 23-11747-125  
 1x 23-09114-002  
 1x 23-13861-106

D04-37490-000/-001: KUS Install  
 (see 23W-C00546 & D04-37492-000)

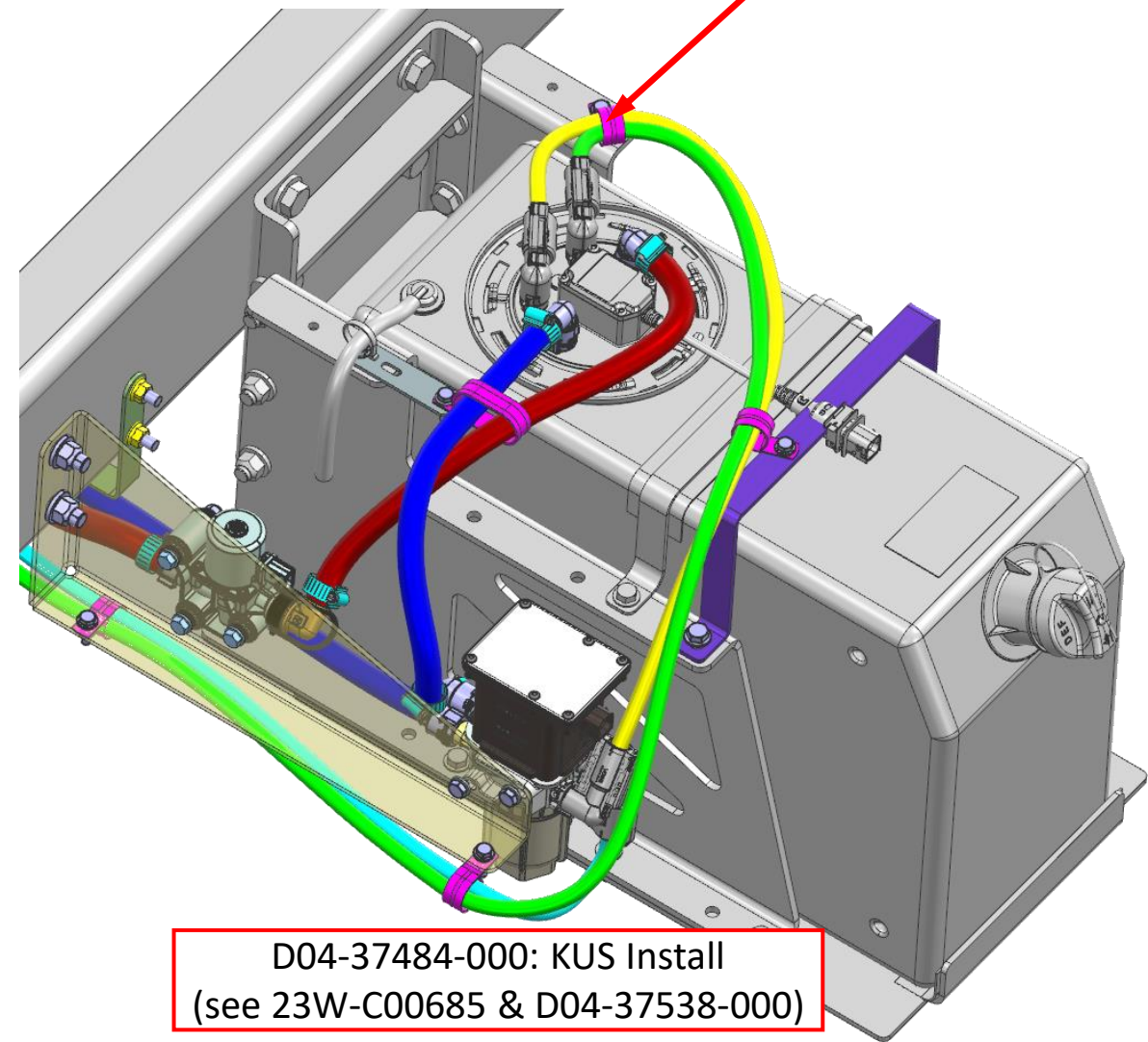
SSI Bill	KUS Bill	SSI Install	KUS Install
23V-C05390	23V-C07100	D04-36841-000	D04-37484-000
23V-C05391	23V-C07101		

DEF supply & pressure line clipping  
 1x 23-11357-016  
 1x 23-13861-104  
 1x 23-10742-100  
 1x 23-10900-025

Remove butterfly band

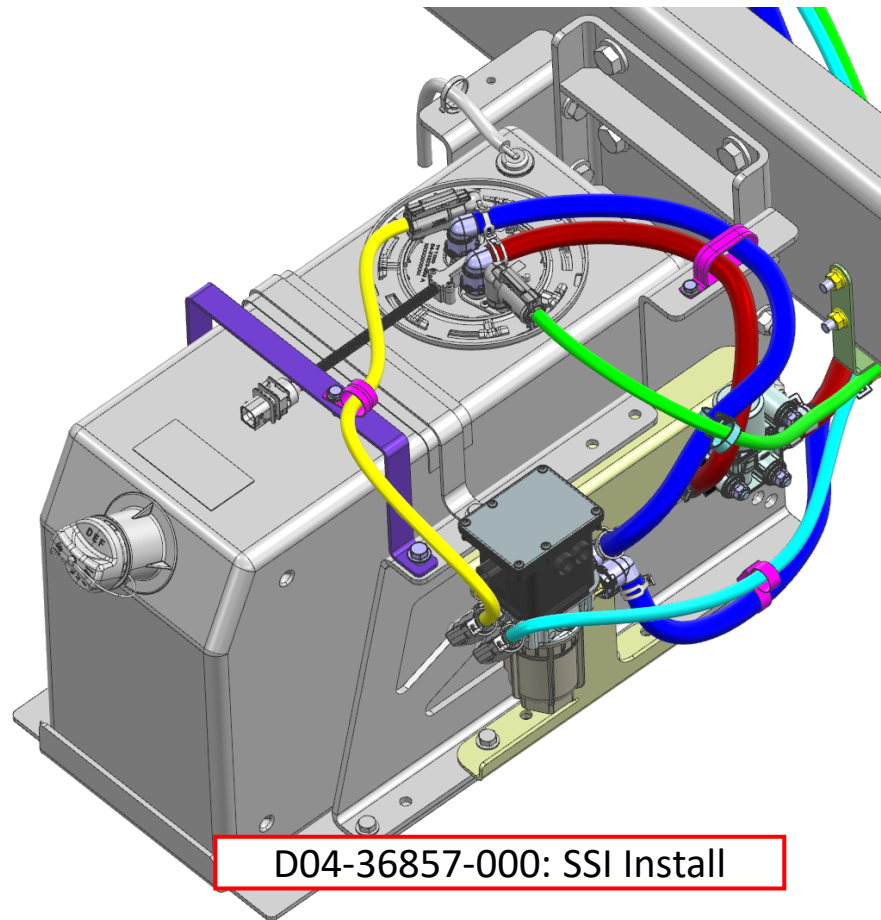


D04-36841-000: SSI Install



D04-37484-000: KUS Install  
 (see 23W-C00685 & D04-37538-000)

SSI Bill	KUS Bill	SSI Install	KUS Install
23V-C05396	23V-C07106	D04-36857-000	D04-37488-000
23V-C05397	23V-C07107		

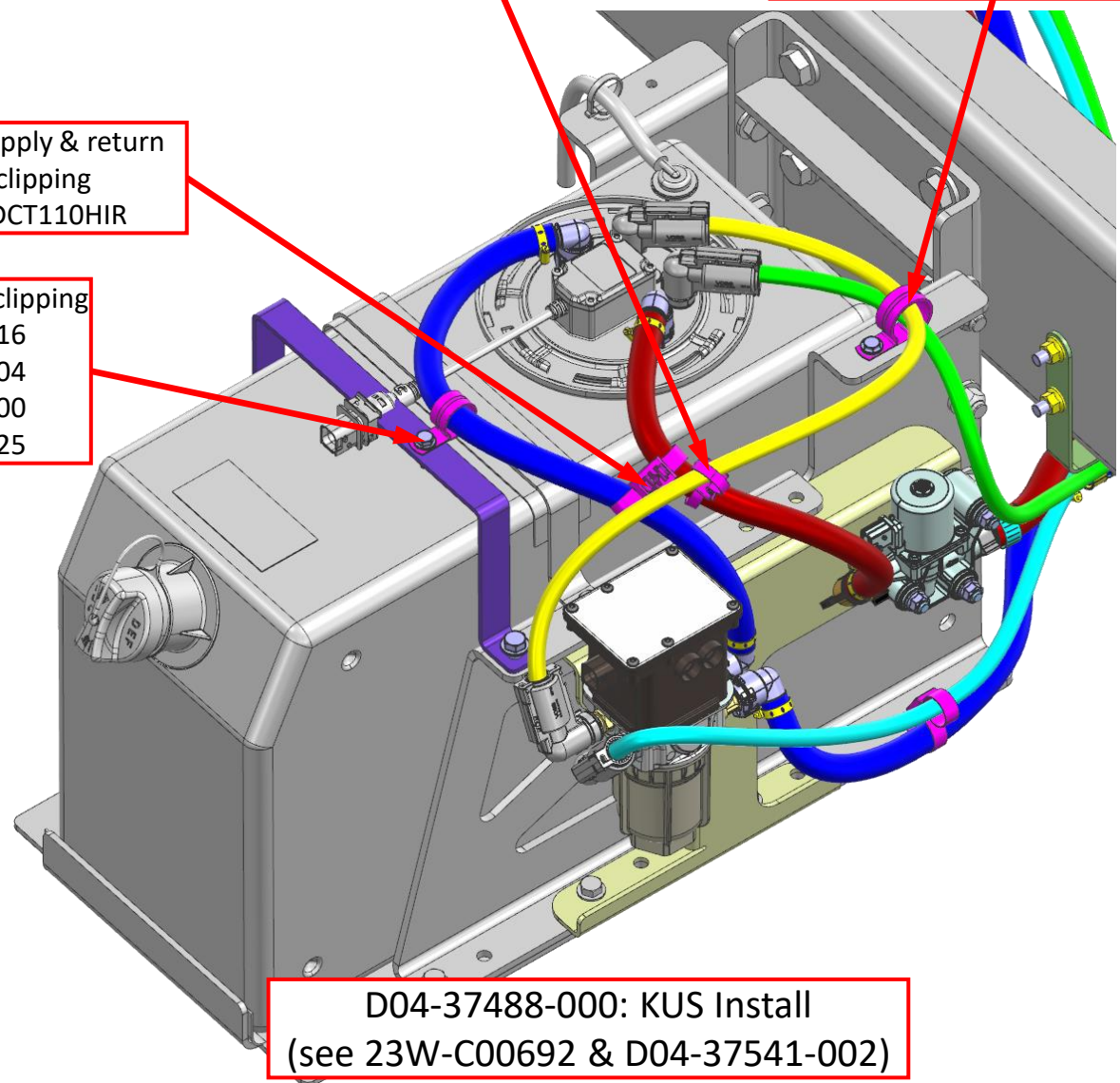


Coolant return line clipping  
 1x 23-11357-016  
 1x 23-13861-104  
 1x 23-10742-100  
 1x 23-10900-025

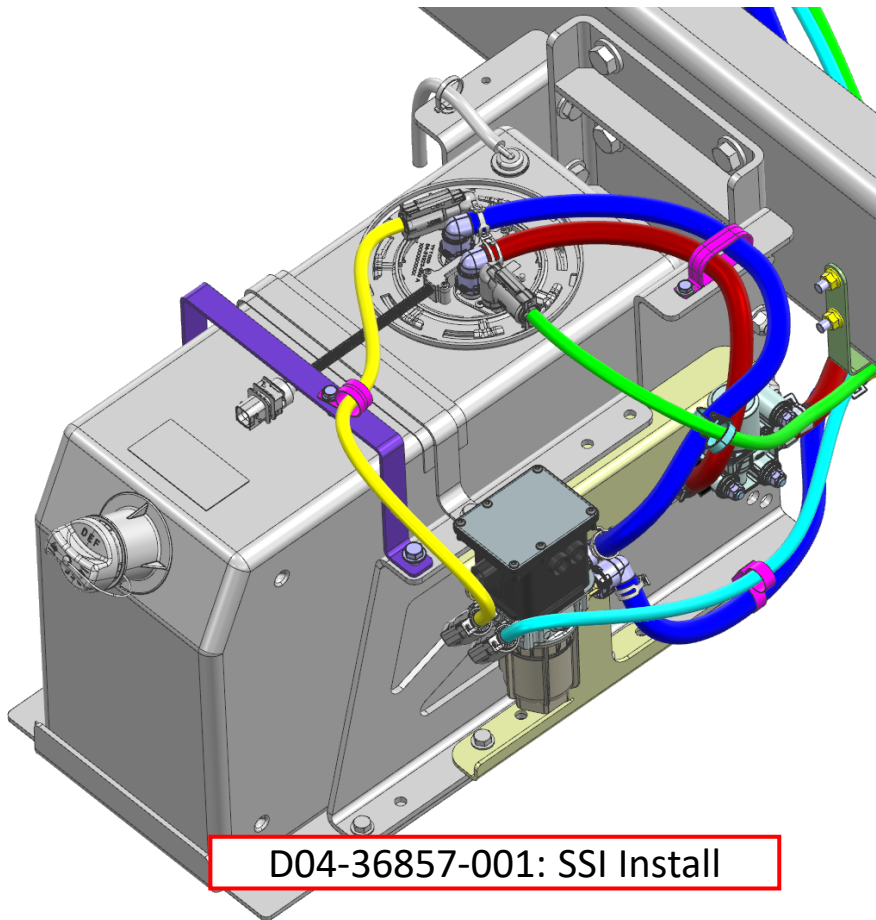
Coolant supply & return  
 line clipping  
 1x TYCDCT110HIR

Coolant supply & DEF  
 supply line clipping  
 1x 23-12866-001  
 2x 23-09796-629

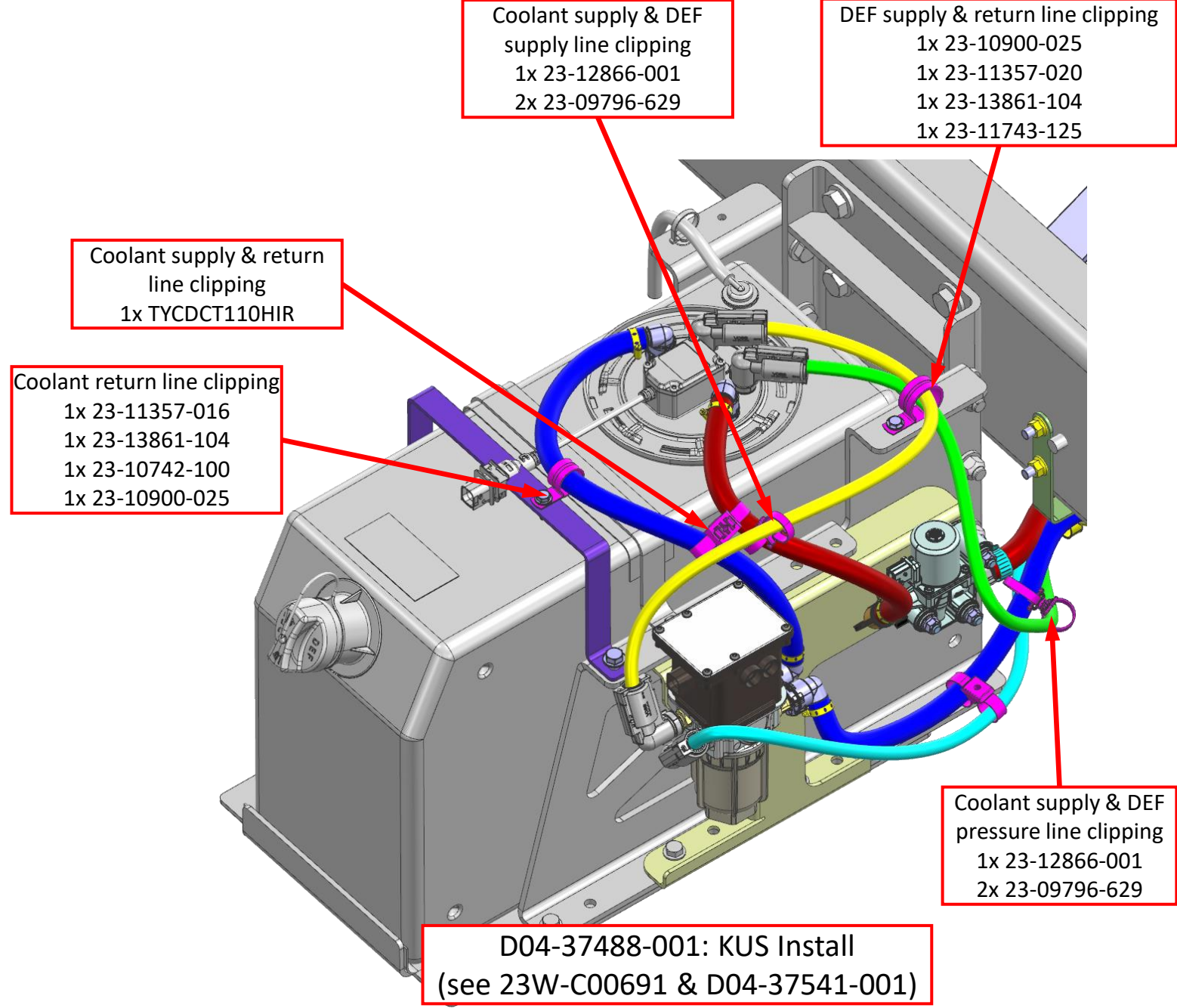
DEF supply & return line clipping  
 1x 23-10900-025  
 1x 23-11357-020  
 1x 23-13861-104  
 1x 23-11743-125



SSI Bill	KUS Bill	SSI Install	KUS Install
23V-C05394	23V-C07104	D04-36857-001	D04-37488-001
23V-C05395	23V-C07105		



D04-36857-001: SSI Install



Coolant supply & DEF supply line clipping  
 1x 23-12866-001  
 2x 23-09796-629

DEF supply & return line clipping  
 1x 23-10900-025  
 1x 23-11357-020  
 1x 23-13861-104  
 1x 23-11743-125

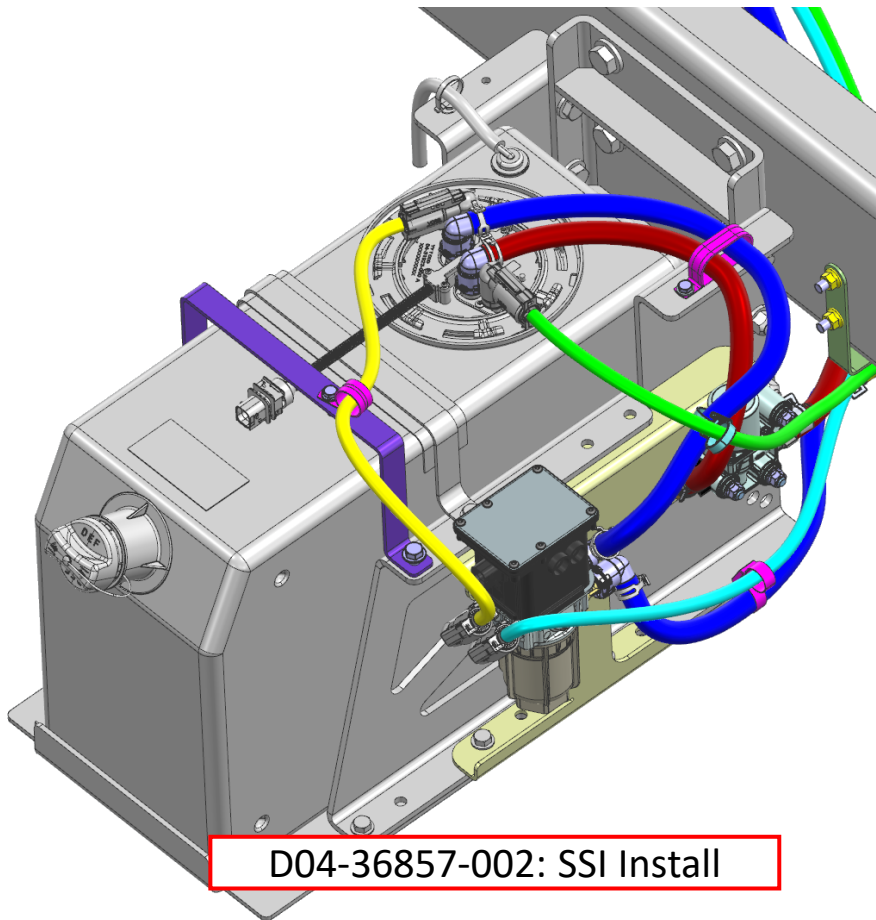
Coolant supply & return line clipping  
 1x TYCDCT110HIR

Coolant return line clipping  
 1x 23-11357-016  
 1x 23-13861-104  
 1x 23-10742-100  
 1x 23-10900-025

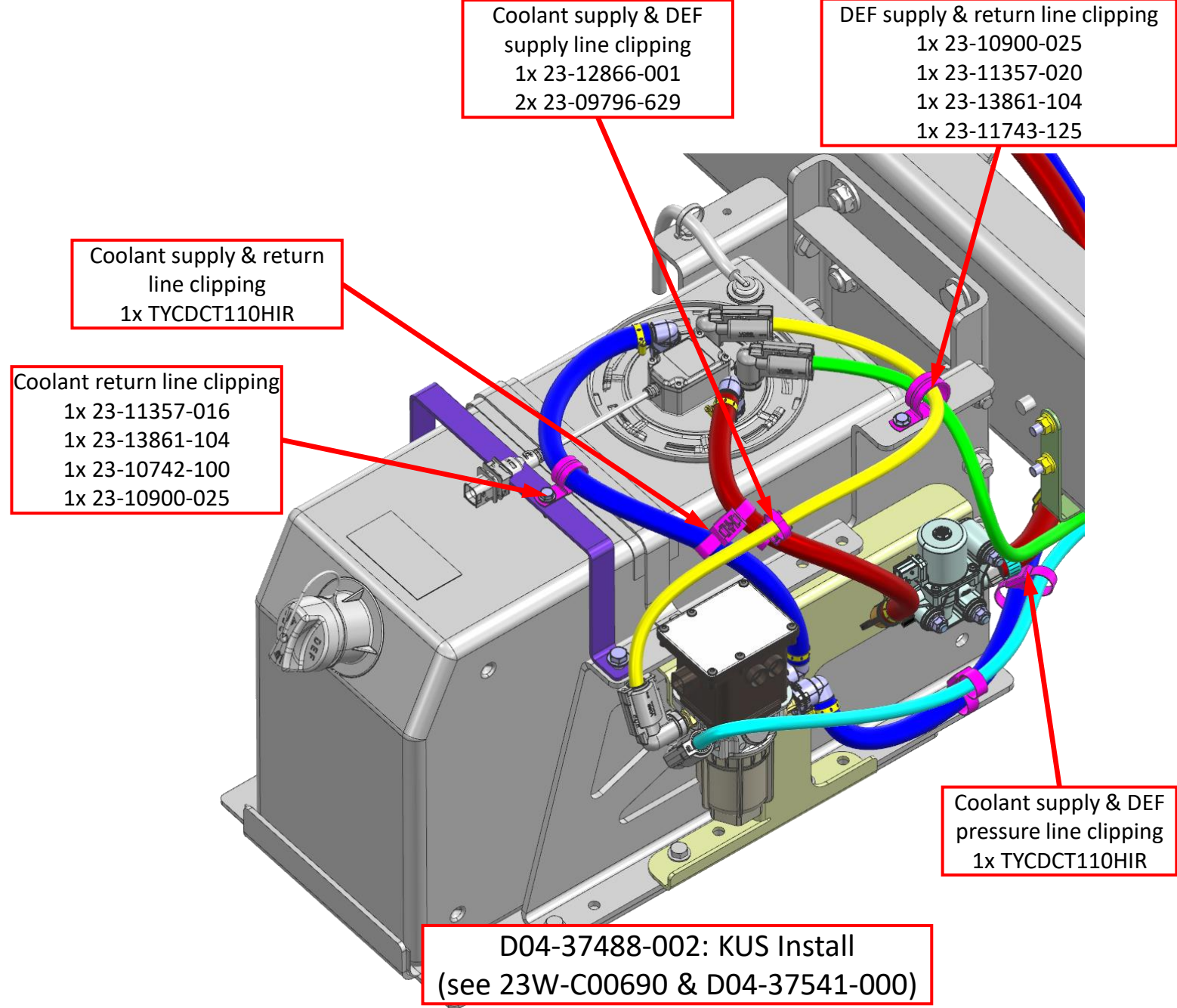
Coolant supply & DEF pressure line clipping  
 1x 23-12866-001  
 2x 23-09796-629

D04-37488-001: KUS Install  
 (see 23W-C00691 & D04-37541-001)

SSI Bill	KUS Bill	SSI Install	KUS Install
23V-C05392	23V-C07102	D04-36857-002	D04-37488-002
23V-C05393	23V-C07103		



D04-36857-002: SSI Install



Coolant supply & DEF supply line clipping  
 1x 23-12866-001  
 2x 23-09796-629

DEF supply & return line clipping  
 1x 23-10900-025  
 1x 23-11357-020  
 1x 23-13861-104  
 1x 23-11743-125

Coolant supply & return line clipping  
 1x TYCDCT110HIR

Coolant return line clipping  
 1x 23-11357-016  
 1x 23-13861-104  
 1x 23-10742-100  
 1x 23-10900-025

Coolant supply & DEF pressure line clipping  
 1x TYCDCT110HIR

D04-37488-002: KUS Install  
 (see 23W-C00690 & D04-37541-000)

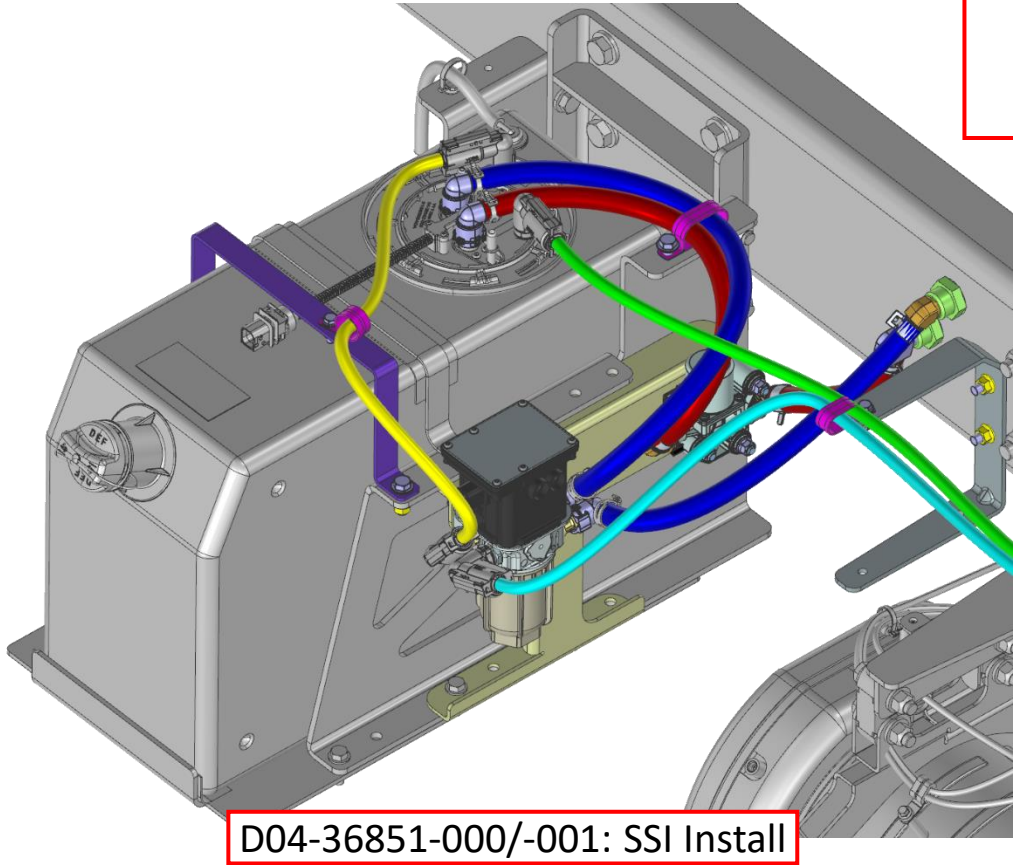
SSI Bill	KUS Bill	SSI Install	KUS Install
23V-C05398	23V-C07108	D04-36851-000	D04-37485-000
23V-C05906	23V-C05918		
23V-C05399	23V-C07109	D04-36851-001	D04-37485-001
23V-C05907	23V-C05919		

DEF supply & return line clipping  
 1x 23-12866-001  
 2x 23-09796-629

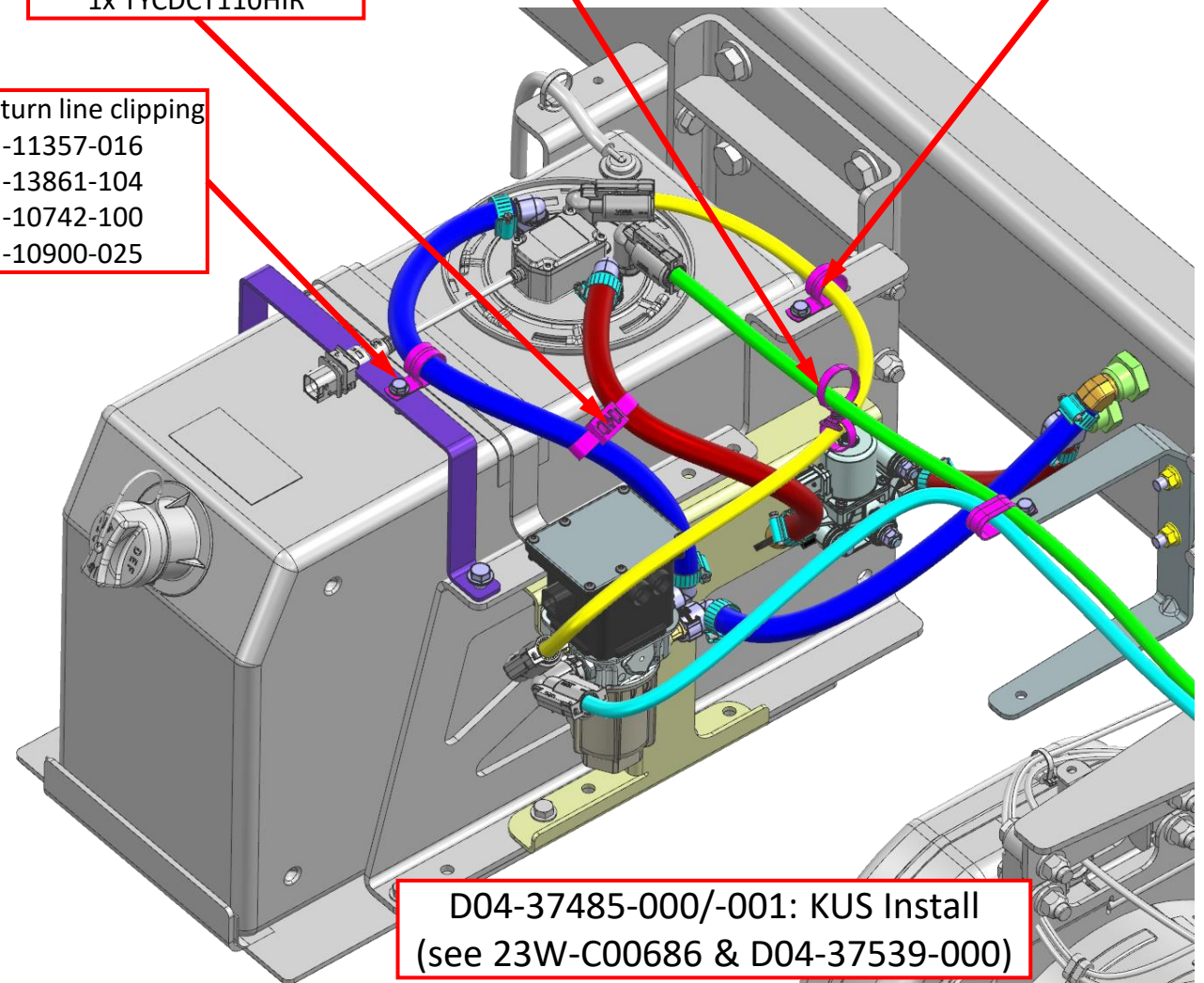
DEF supply line clipping  
 1x 23-11357-016  
 1x 23-10742-100  
 1x 23-10900-025  
 1x 23-13861-104

Coolant supply & return line clipping  
 1x TYCDCT110HIR

Coolant return line clipping  
 1x 23-11357-016  
 1x 23-13861-104  
 1x 23-10742-100  
 1x 23-10900-025

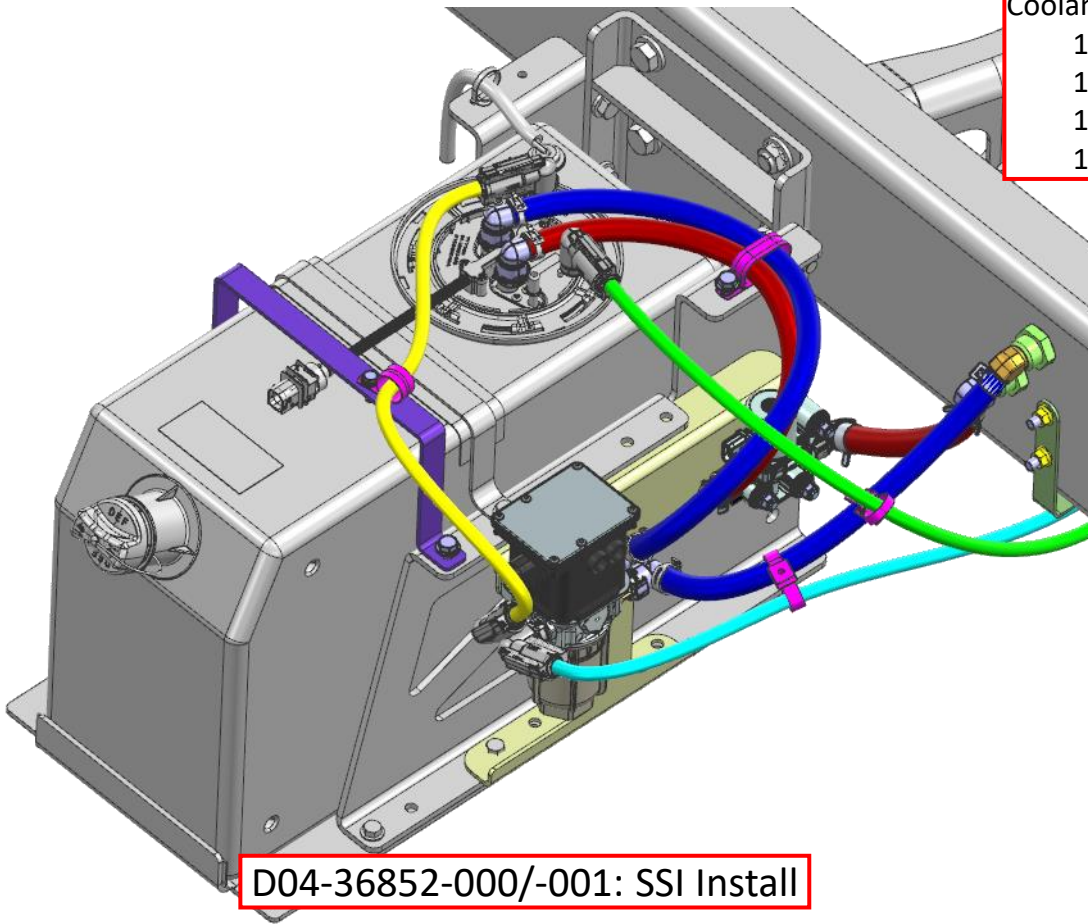


D04-36851-000/-001: SSI Install



D04-37485-000/-001: KUS Install  
 (see 23W-C00686 & D04-37539-000)

SSI Bill	KUS Bill	SSI Install	KUS Install
23V-C05904	23V-C05916	D04-36852-000	D04-37486-000
23V-C05905	23V-C05917		
23V-C05900	23V-C05912	D04-36852-001	D04-37486-001
23V-C05901	23V-C05913		



D04-36852-000/-001: SSI Install

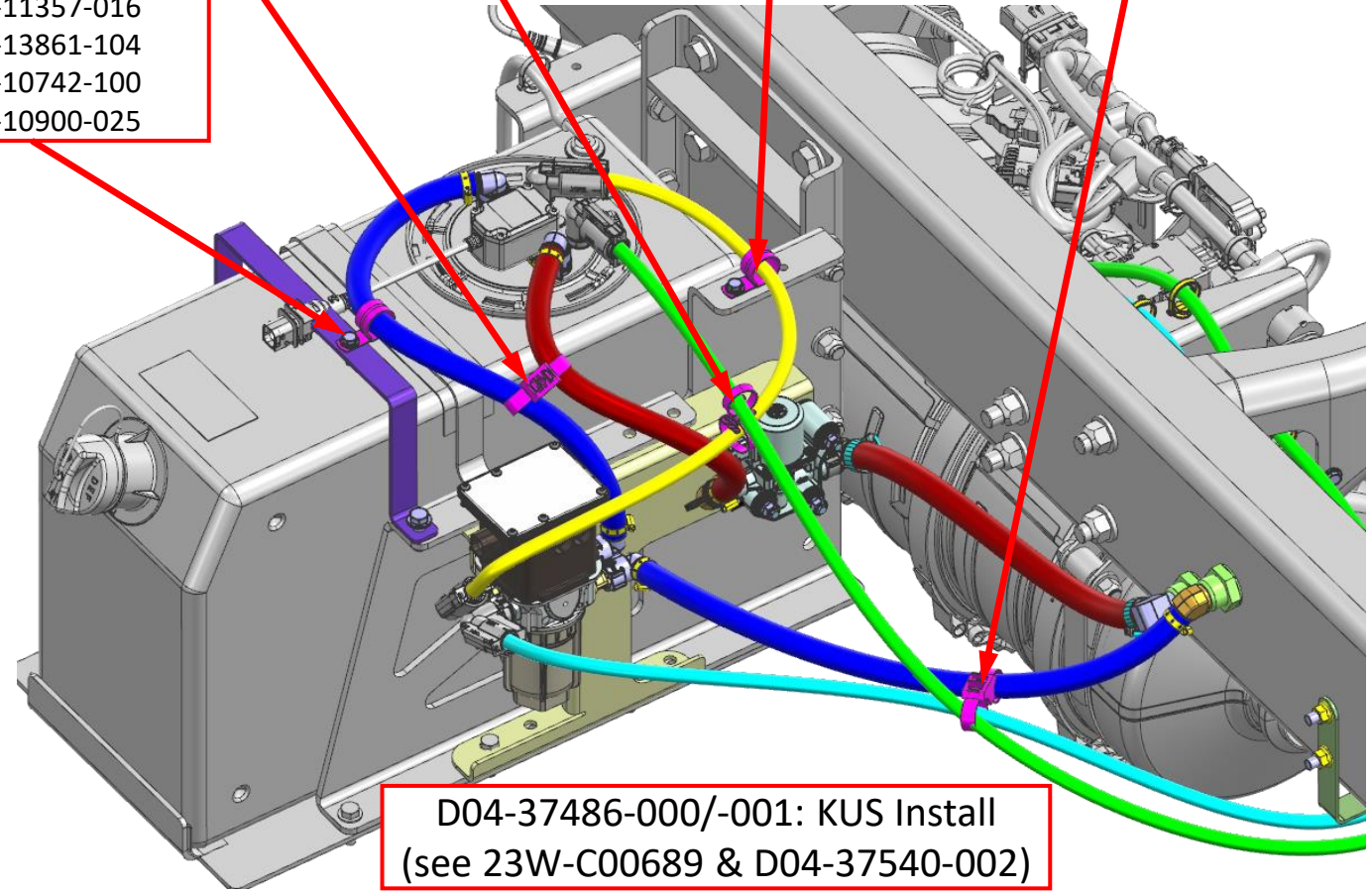
DEF supply & return line clipping  
 1x 23-12866-001  
 2x 23-09796-629

DEF supply line clipping  
 1x 23-11357-016  
 1x 23-10742-100  
 1x 23-10900-025  
 1x 23-13861-104

Coolant supply and DEF return  
 & pressure line clipping  
 1x TYCDCT110HIR

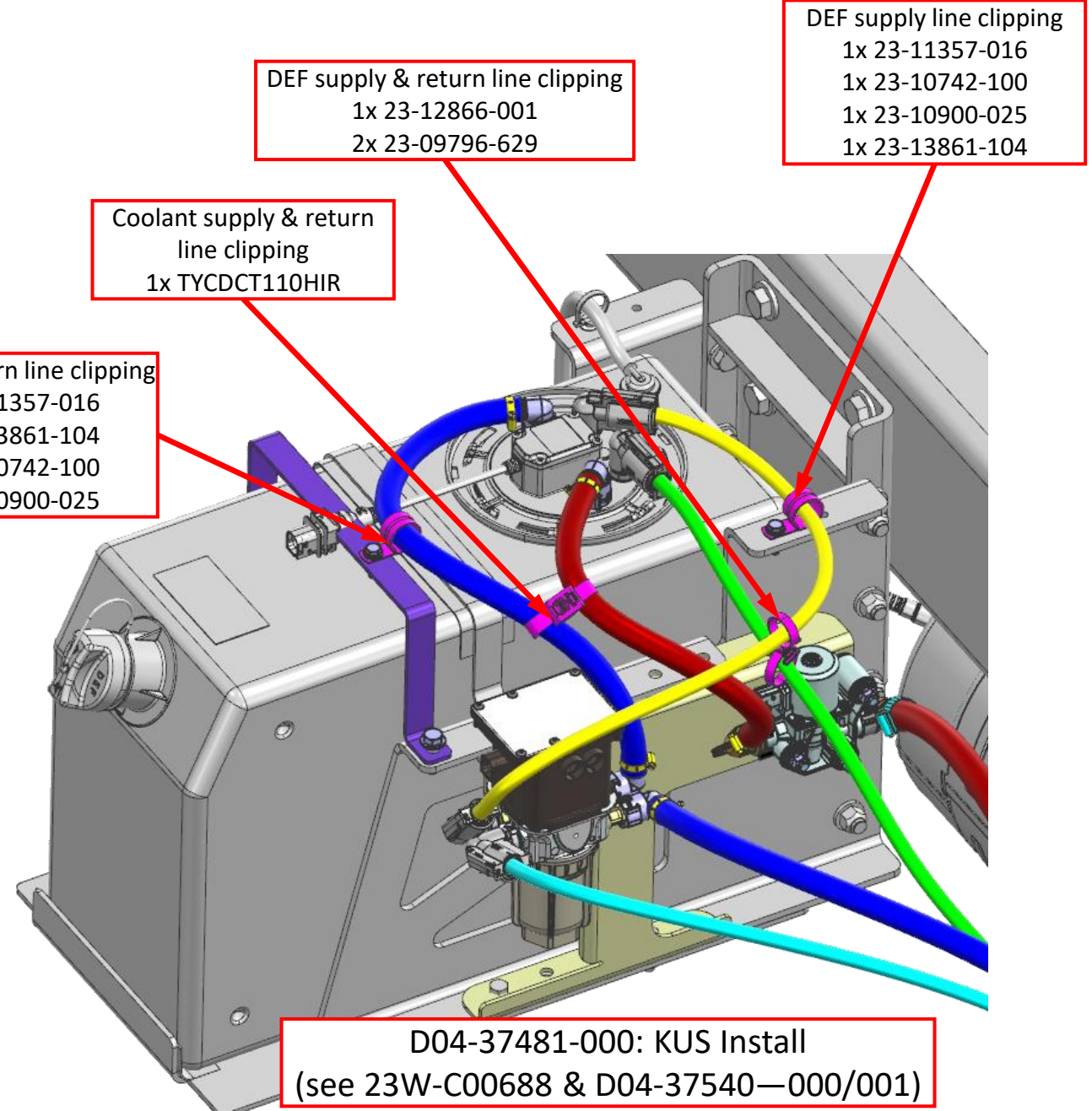
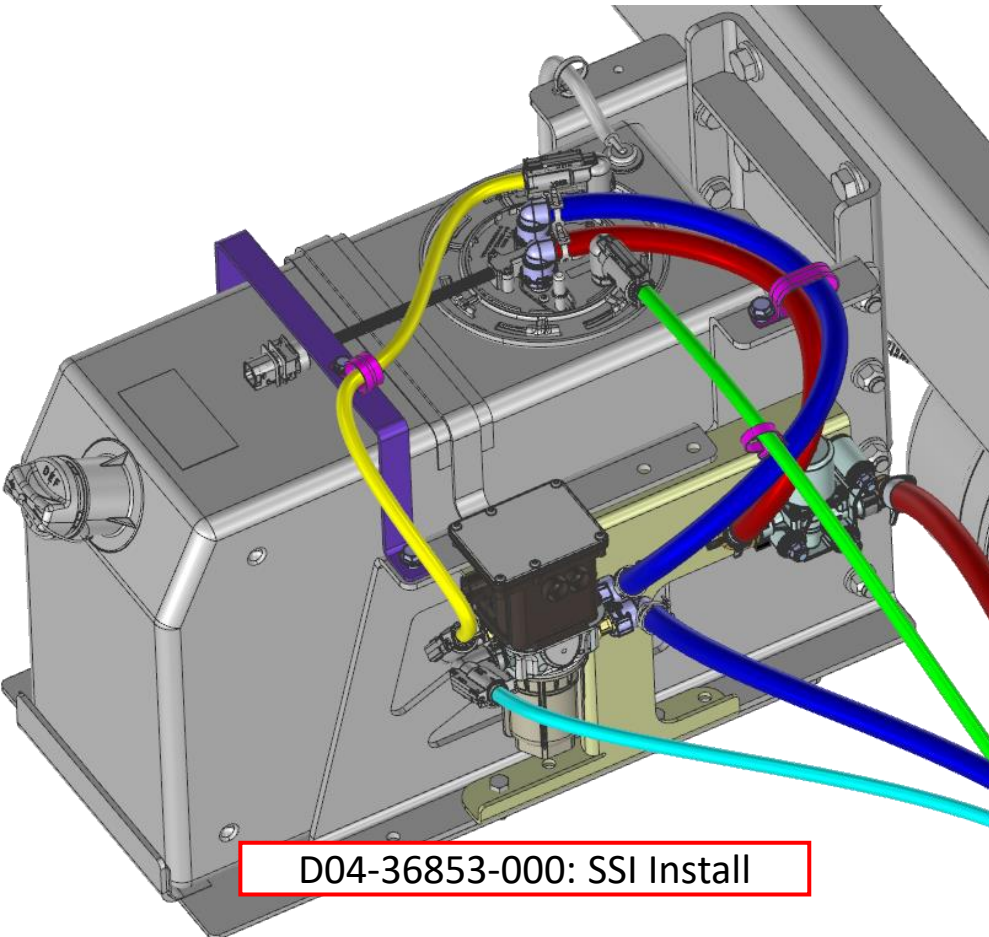
Coolant supply & return  
 line clipping  
 1x TYCDCT110HIR

Coolant return line clipping  
 1x 23-11357-016  
 1x 23-13861-104  
 1x 23-10742-100  
 1x 23-10900-025



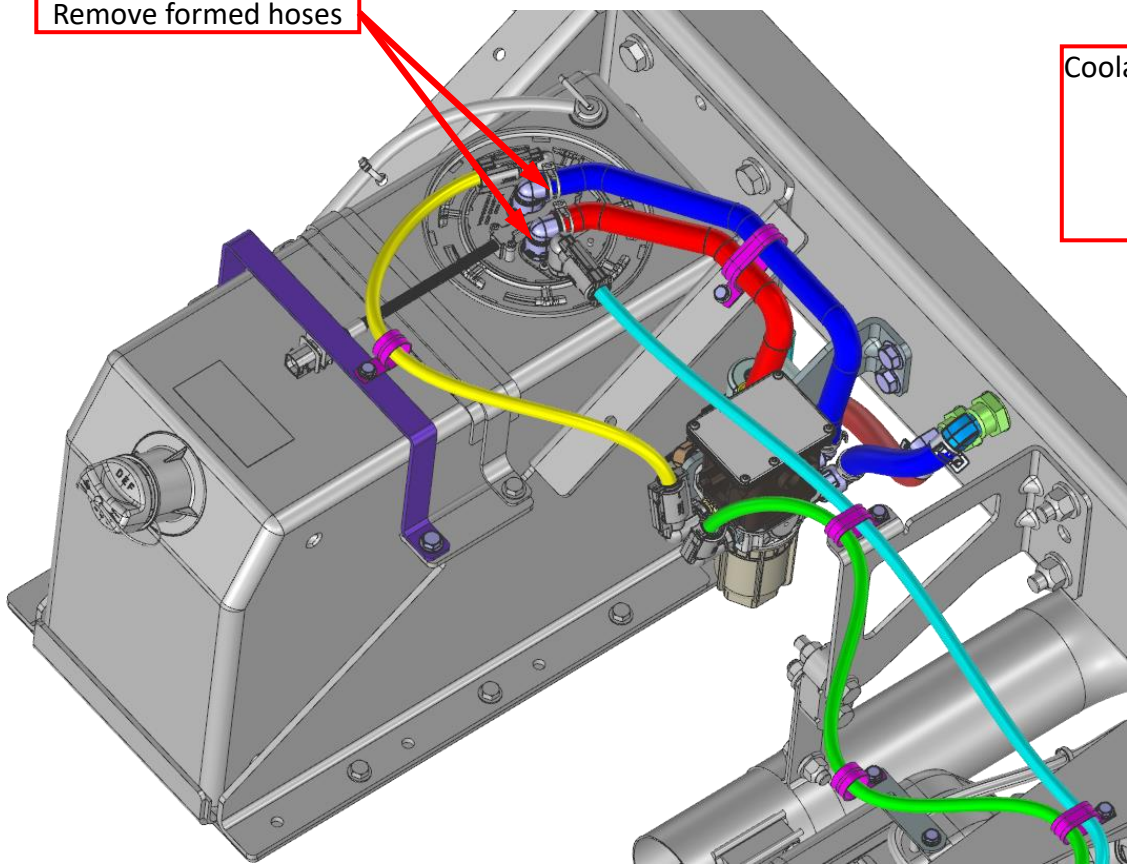
D04-37486-000/-001: KUS Install  
 (see 23W-C00689 & D04-37540-002)

SSI Bill	KUS Bill	SSI Install	KUS Install
23V-C05902	23V-C05914	D04-36853-000	D04-37487-000
23V-C05903	23V-C05915		



SSI Bill	KUS Bill	SSI Install	KUS Install
23V-C05908	23V-C05920	D04-36870-000	D04-37489-000
23V-C05910	23V-C05922		
23V-C05909	23V-C05921	D04-36870-001	D04-37489-001
23V-C05911	23V-C05923		

Remove formed hoses



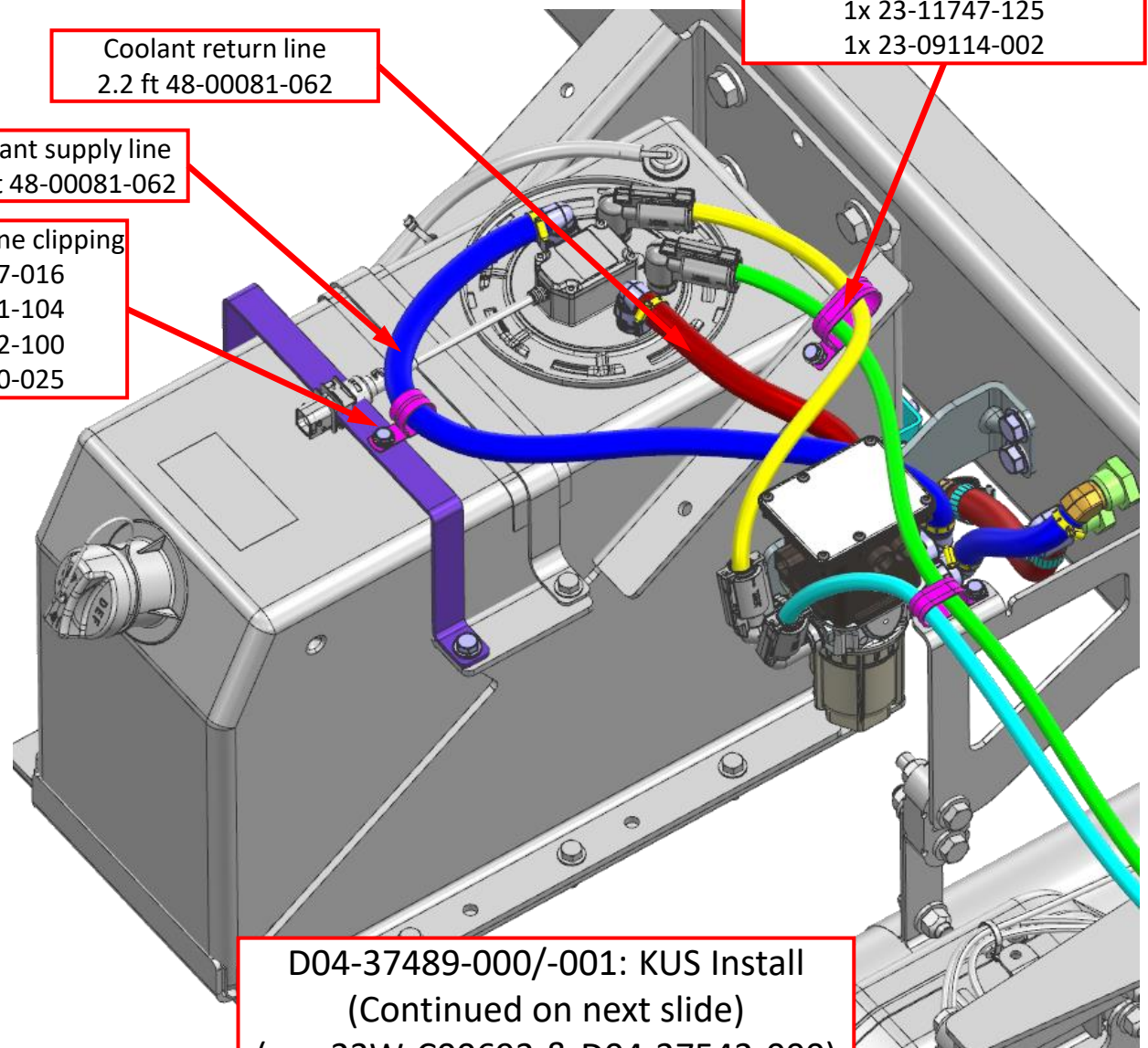
D04-36870-000/-001: SSI Install

Coolant return line clipping  
 1x 23-11357-016  
 1x 23-13861-104  
 1x 23-10742-100  
 1x 23-10900-025

Coolant supply line  
 1.2 ft 48-00081-062

Coolant return line  
 2.2 ft 48-00081-062

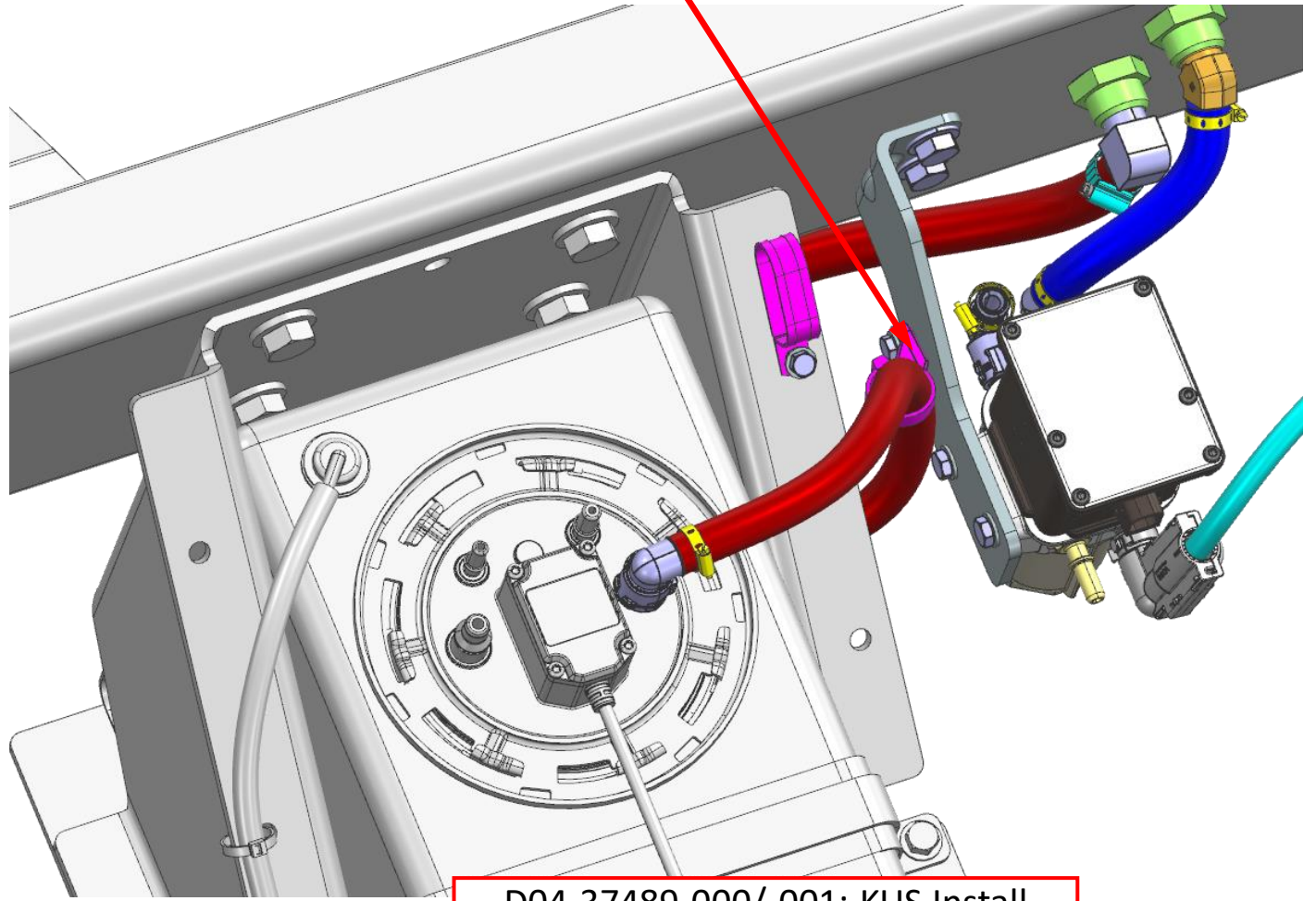
DEF supply & return line clipping  
 1x 23-11358-029  
 1x 23-13861-106  
 1x 23-11747-125  
 1x 23-09114-002



D04-37489-000/-001: KUS Install  
 (Continued on next slide)  
 (see 23W-C00693 & D04-37542-000)

SSI Bill	KUS Bill	SSI Install	KUS Install
23V-C05908	23V-C05920	D04-36870-000	D04-37489-000
23V-C05910	23V-C05922		
23V-C05909	23V-C05921	D04-36870-001	D04-37489-001
23V-C05911	23V-C05923		

Coolant supply line clipping  
 1x TYCHDM250HIR  
 1X 23-09796-629  
 1X 23-13861-104  
 1X 23-10742-100  
 1X 23-09114-016



D04-37489-000/-001: KUS Install



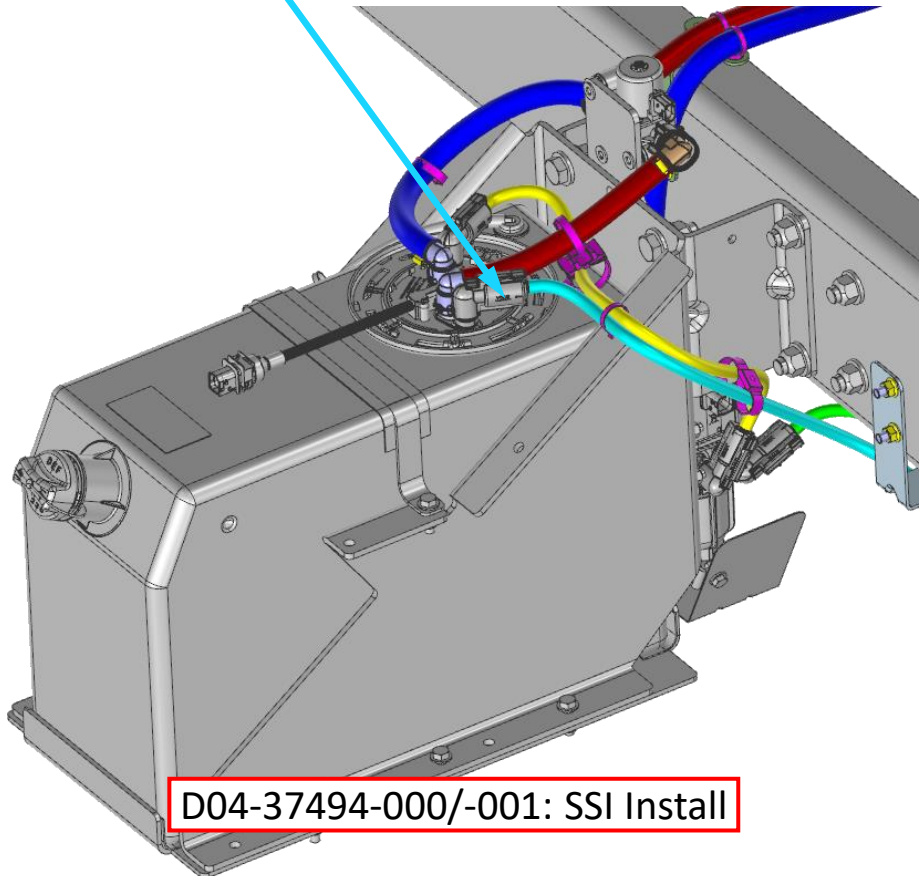
## 2. WIV DEF Lines

Freightliner Custom Chassis Corp.

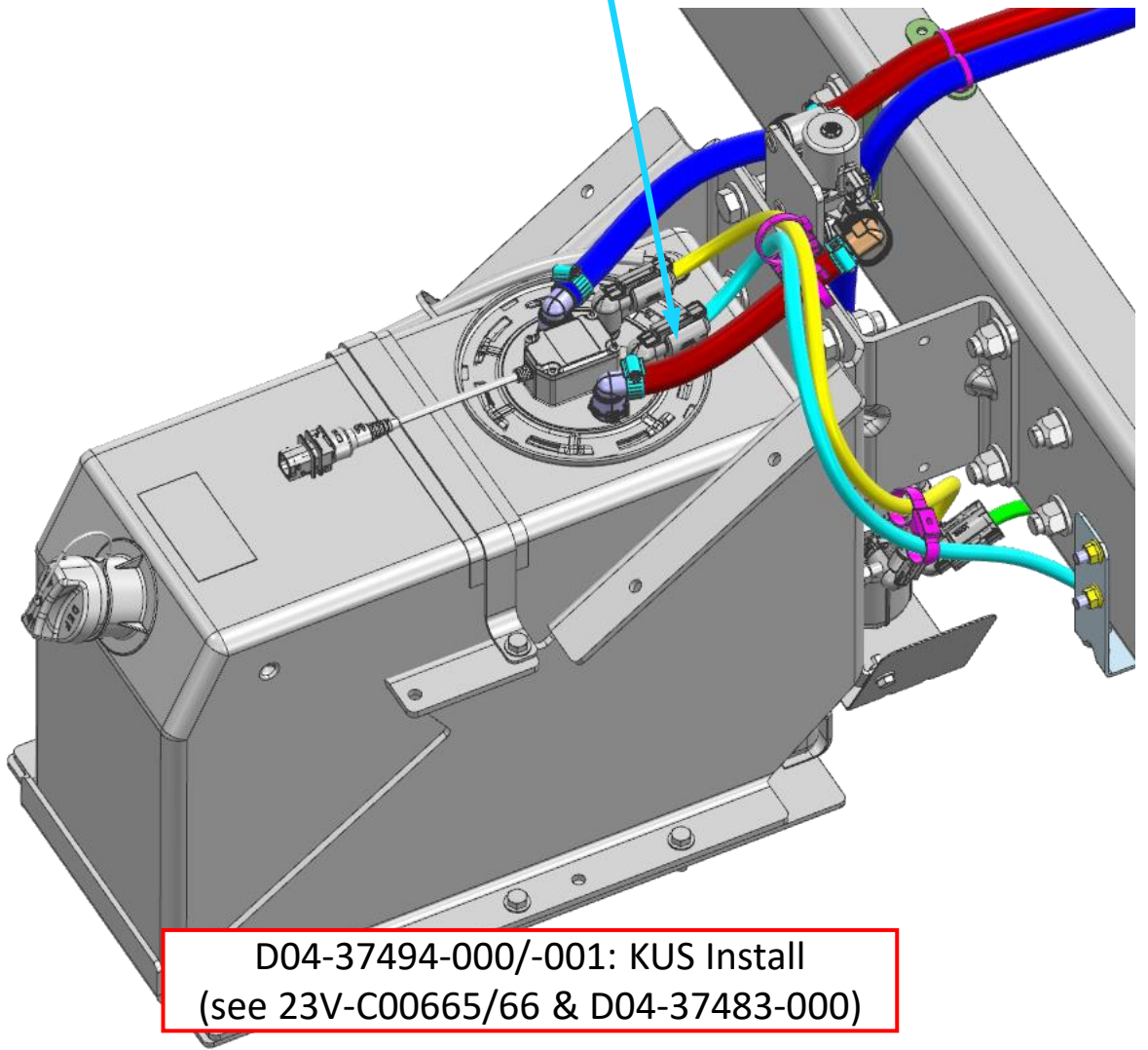
SSI Bill	KUS Bill	SSI Install	KUS Install	Page
23W-C00538	23W-C00543	D04-35414-000	D04-37494-000	19
23W-C00539	23W-C00544	D04-35414-001	D04-37494-001	19
23W-C00540	23W-C00545	D04-33998-000	D04-37491-000	20
23W-C00541	23W-C00546	D04-33999-000	D04-37492-000	21
23W-C00542	23W-C00547	D04-34000-000	D04-37493-000	22
23W-C00667	23W-C00685	D04-33747-000	D04-37538-000	23
23W-C00668	23W-C00686	D04-33746-000	D04-37539-000	24
23W-C00669	23W-C00687	D04-33820-000	D04-37540-000	25
23W-C00670	23W-C00688	D04-33820-001	D04-37540-001	25
23W-C00671	23W-C00689	D04-33820-002	D04-37540-002	25
23W-C00672	23W-C00690	D04-33819-000	D04-37541-000	26
23W-C00673	23W-C00691	D04-33819-001	D04-37541-001	26
23W-C00674	23W-C00692	D04-33819-002	D04-37541-002	26
23W-C00675	23W-C00693	D04-34174-000	D04-37542-000	27

SSI Bill	KUS Bill	SSI Install	KUS Install
23W-C00538 Supply: 04-33013-060 Return: 04-33014-200 Pressure: 04-32032-180	23W-C00543 Supply: 04-33013-060 Return: 04-33014-190 Pressure: 04-32032-180	D04-35414-000	D04-37494-000
23W-C00539 Supply: 04-33013-060 Return: 04-33014-320 Pressure: 04-32032-300	23W-C00544 Supply: 04-33013-060 Return: 04-33014-320 Pressure: 04-32032-300	D04-35414-001	D04-37494-001

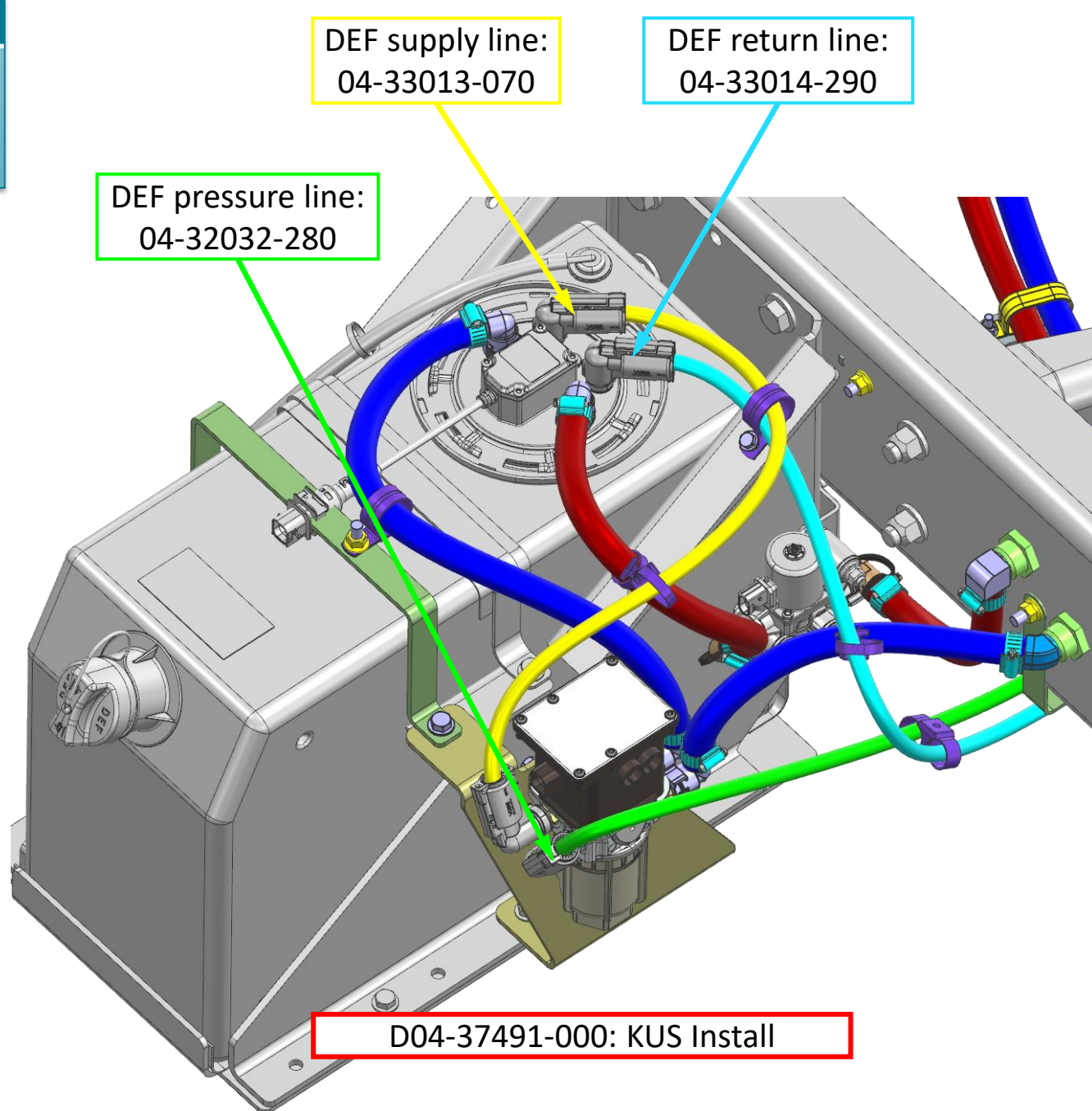
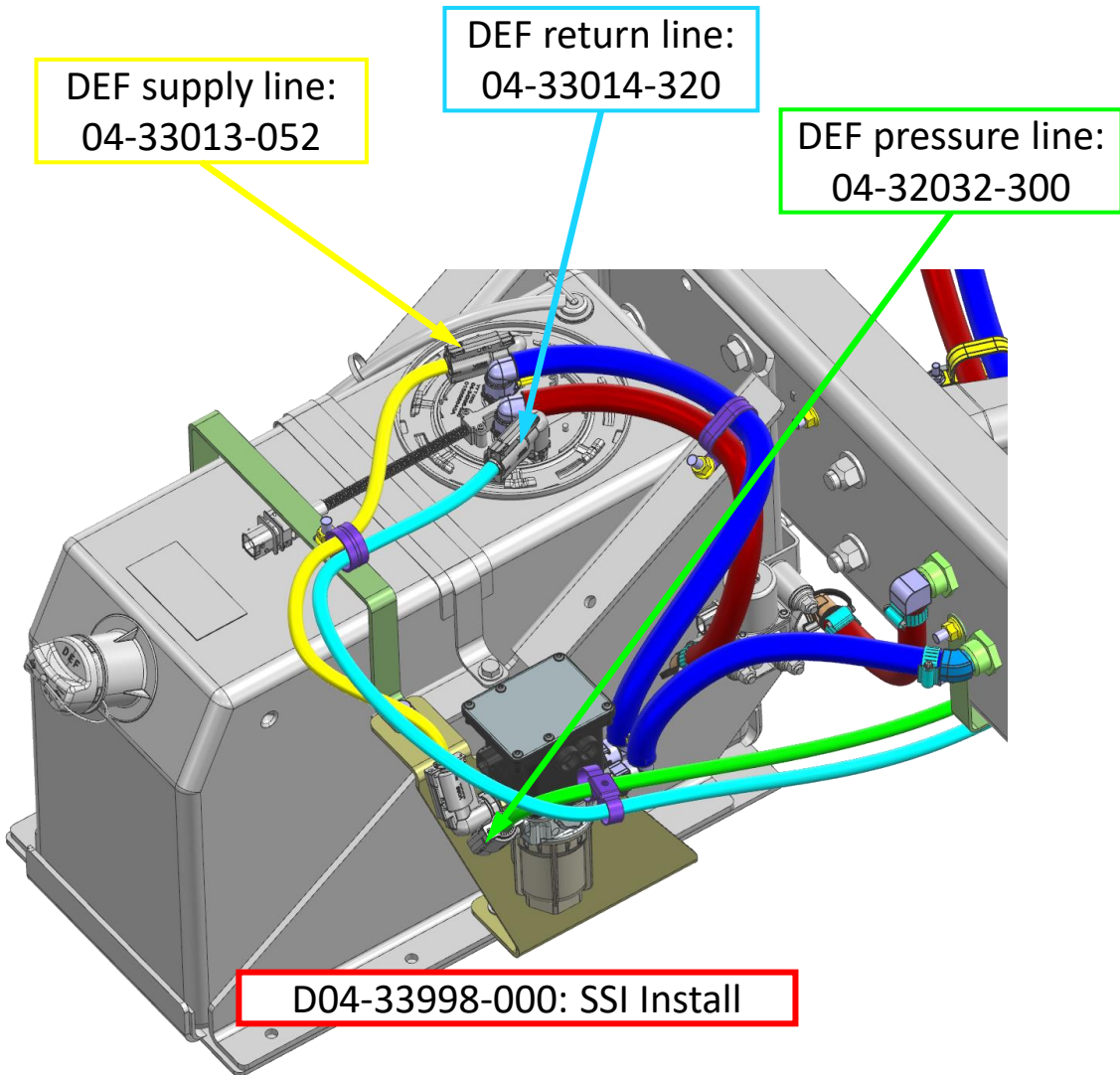
DEF return line: 04-33014-200



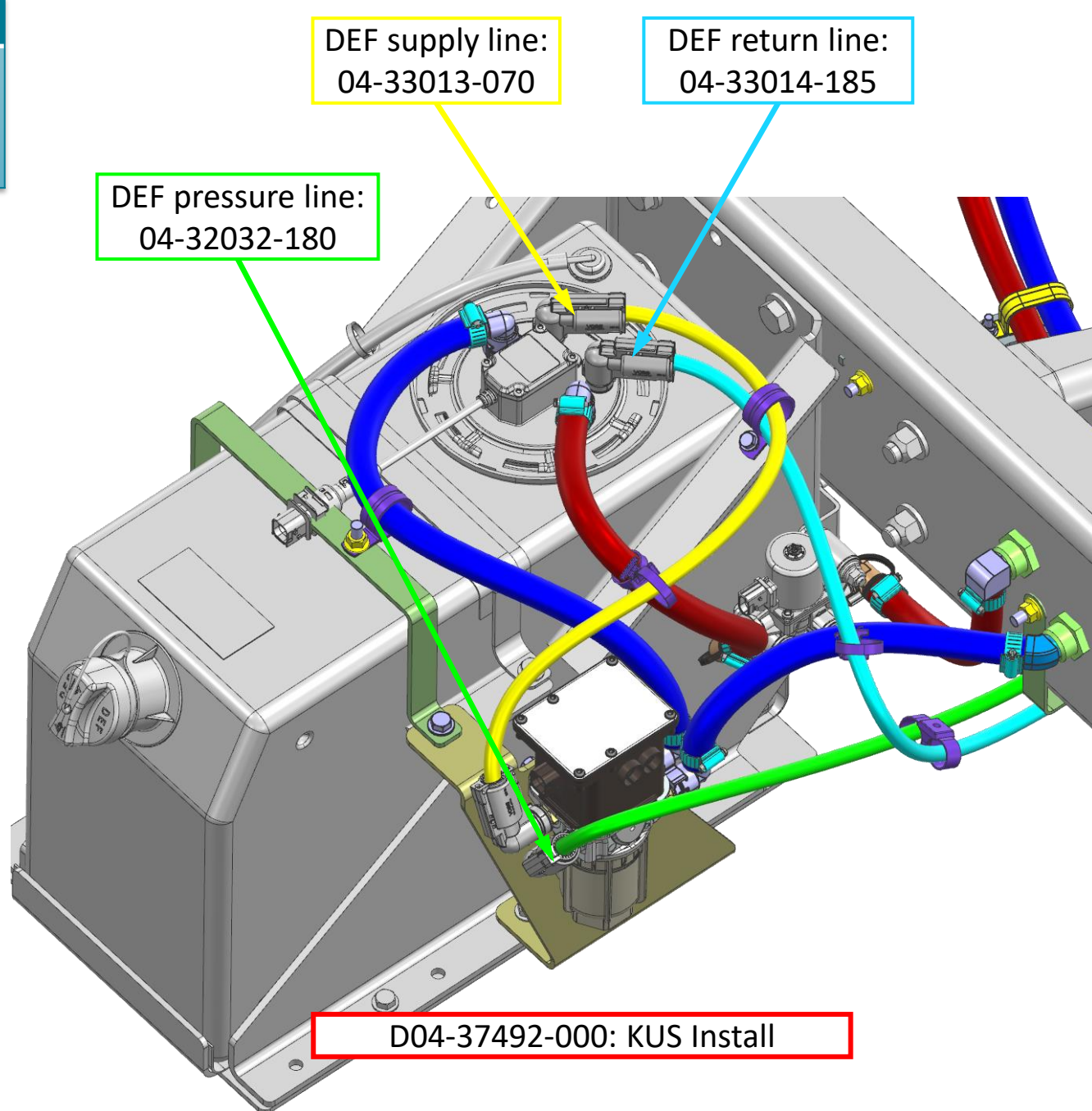
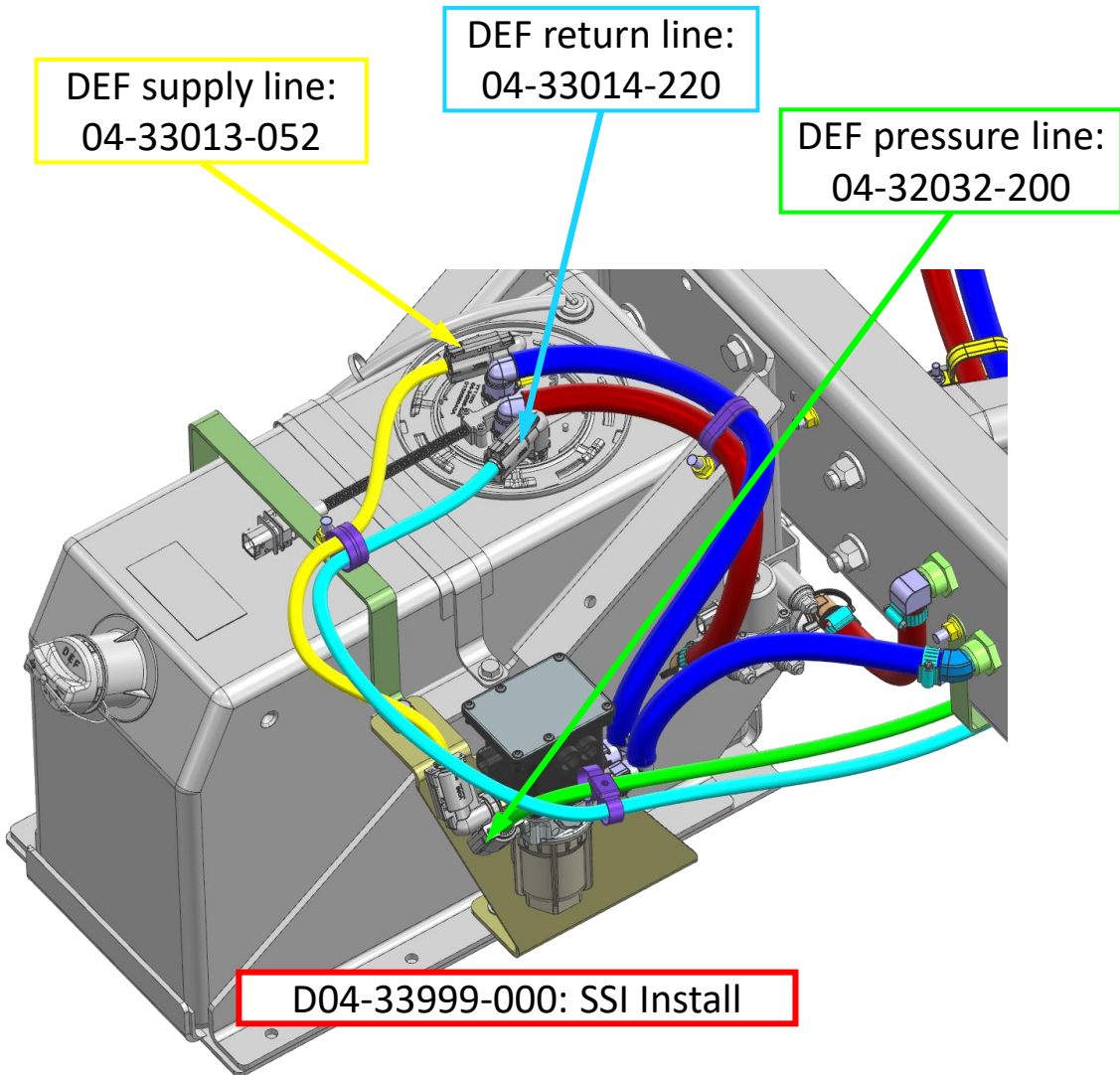
DEF return line: 04-33014-190



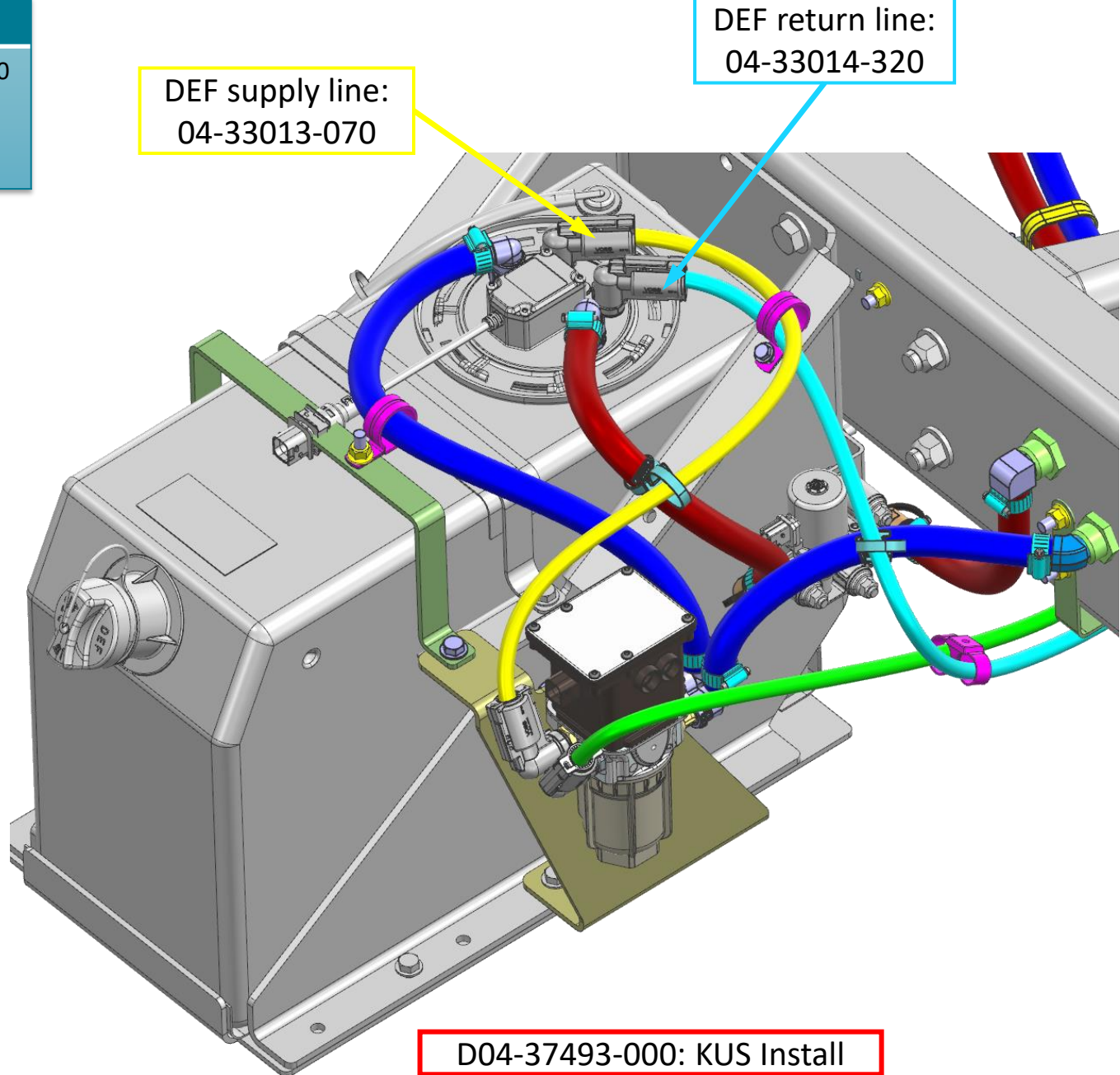
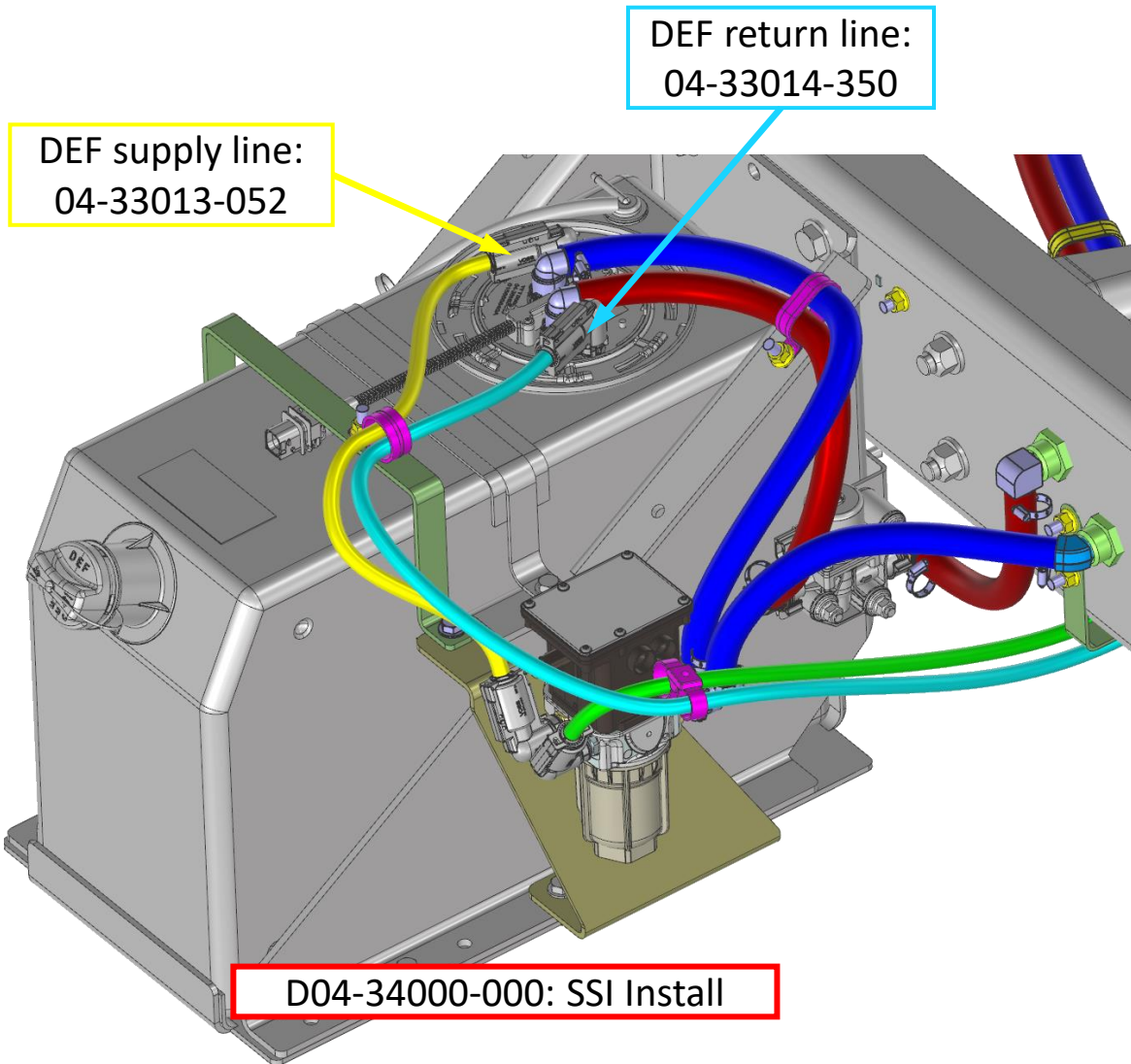
SSI Bill	KUS Bill	SSI Install	KUS Install
23W-C00540	23W-C00545	D04-33998-000	D04-37491-000
Supply: 04-33013-052	Supply: 04-33013-070		
Return: 04-33014-320	Return: 04-33014-290		
Pressure: 04-32032-300	Pressure: 04-32032-280		



SSI Bill	KUS Bill	SSI Install	KUS Install
23W-C00541	23W-C00546	D04-33999-000	D04-37492-000
Supply: 04-33013-052	Supply: 04-33013-070		
Return: 04-33014-220	Return: 04-33014-185		
Pressure: 04-32032-200	Pressure: 04-32032-180		



SSI Bill	KUS Bill	SSI Install	KUS Install
23W-C00542	23W-C00547	D04-34000-000	D04-37493-000
Supply: 04-33013-052	Supply: 04-33013-070		
Return: 04-33014-350	Return: 04-33014-320		
Pressure: 04-32032-320	Pressure: 04-32032-320		



SSI Bill	KUS Bill	SSI Install	KUS Install
23W-C00667	23W-C00685	D04-33747-000	D04-37538-000
Supply: 04-33013-075	Supply: 04-33013-080		
Return: 04-33014-290	Return: 04-33014-310		
Pressure: 04-32032-220	Pressure: 04-32032-220		

DEF supply line:  
04-33013-080

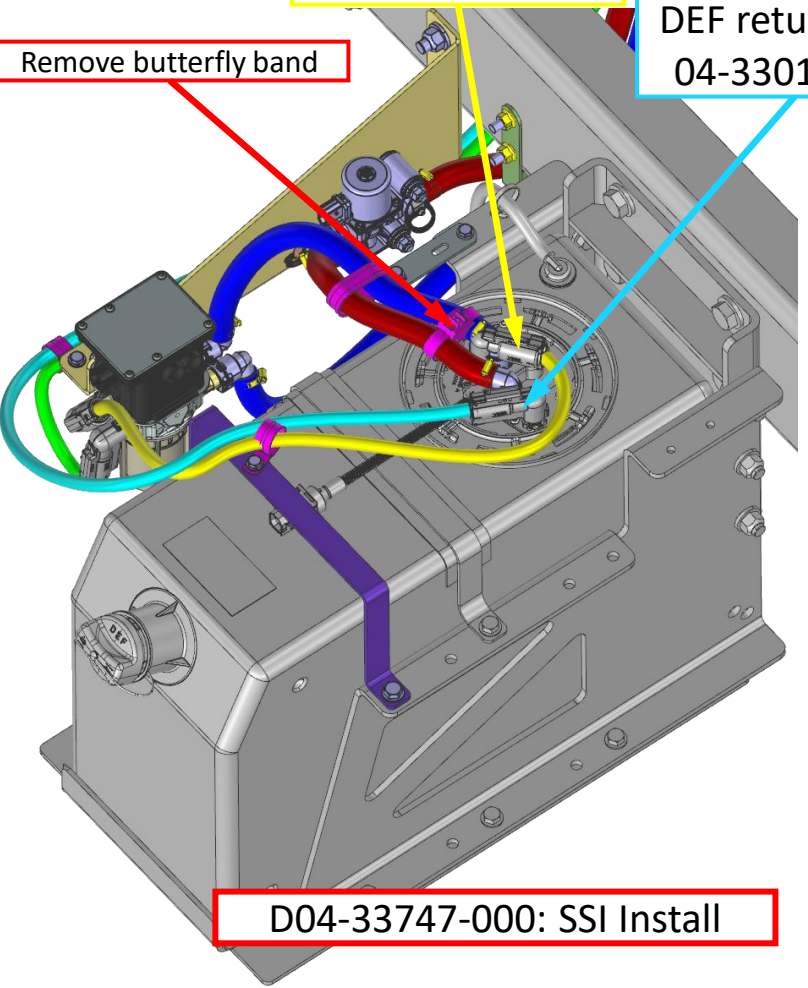
DEF return line:  
04-33014-310

DEF Supply & return line  
clipping  
1x 23-11357-016  
1x 23-13861-104  
1x 23-10742-100  
1x 23-10900-025

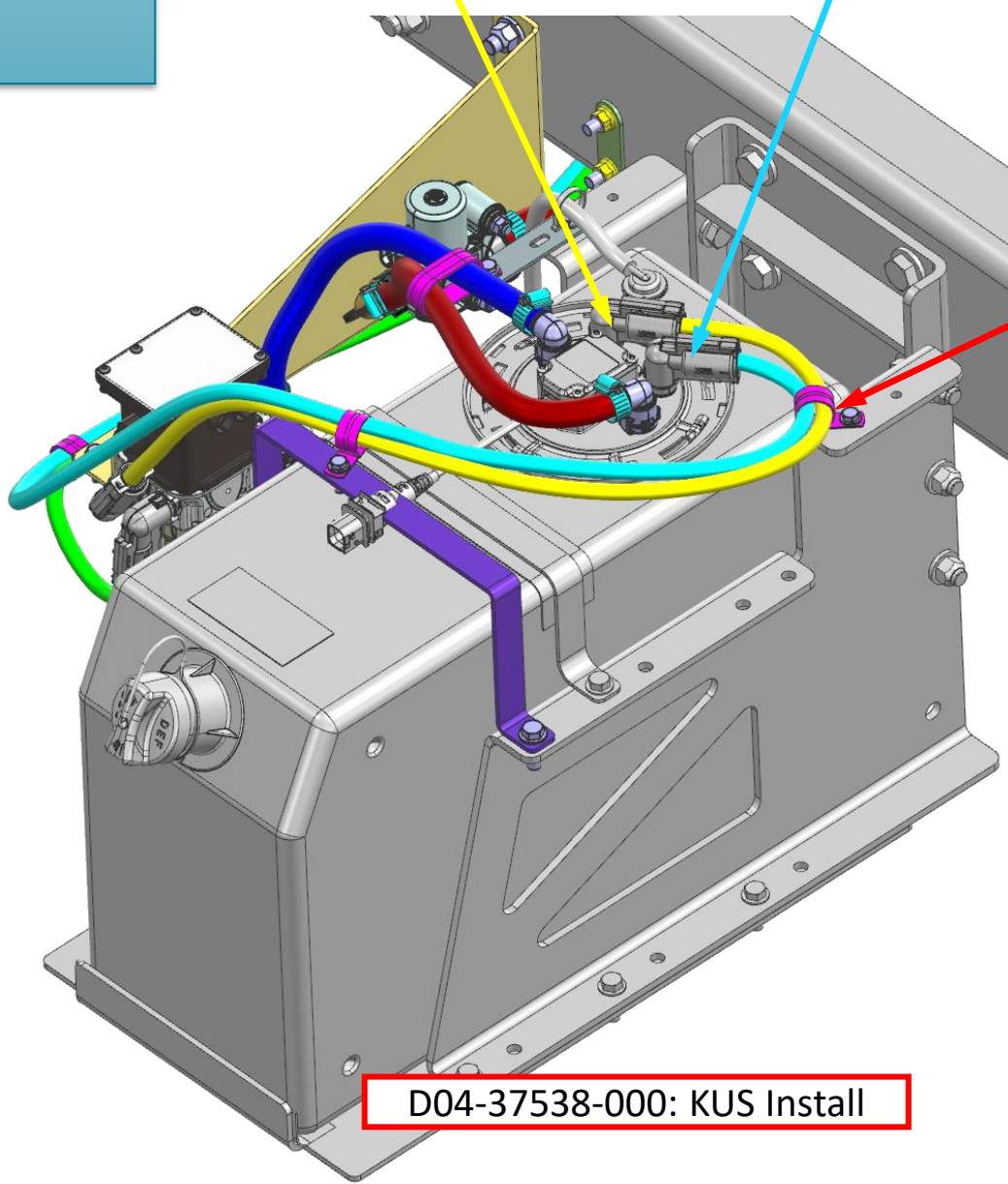
DEF supply line:  
04-33013-075

DEF return line:  
04-33014-290

Remove butterfly band



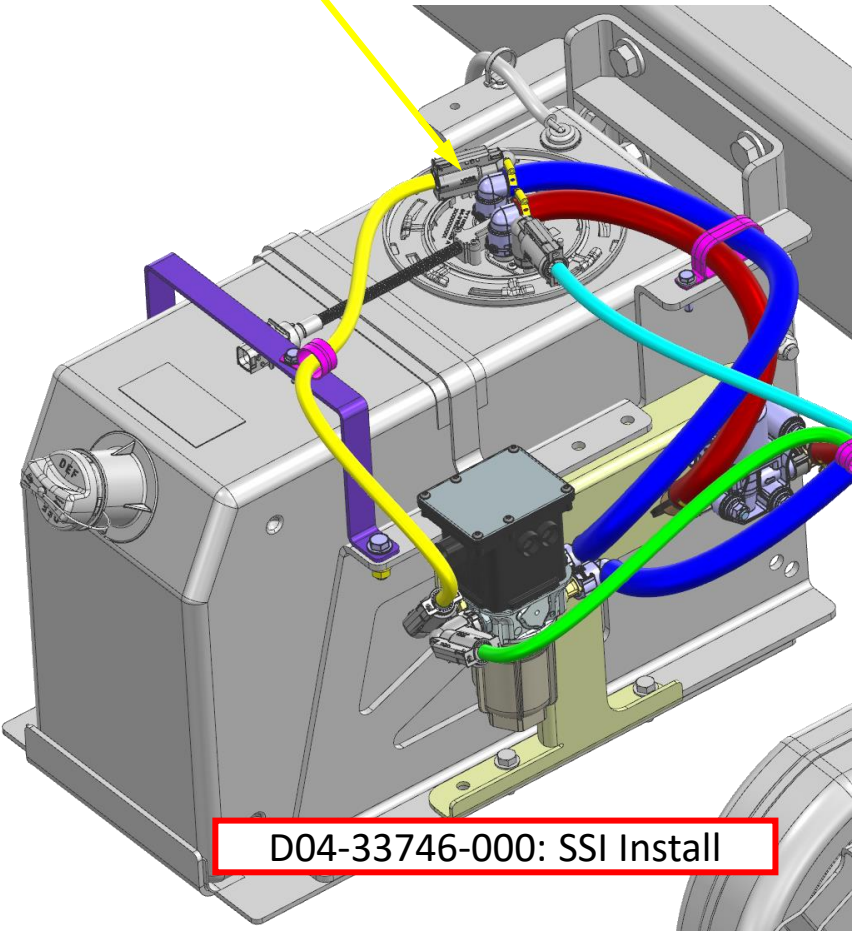
D04-33747-000: SSI Install



D04-37538-000: KUS Install

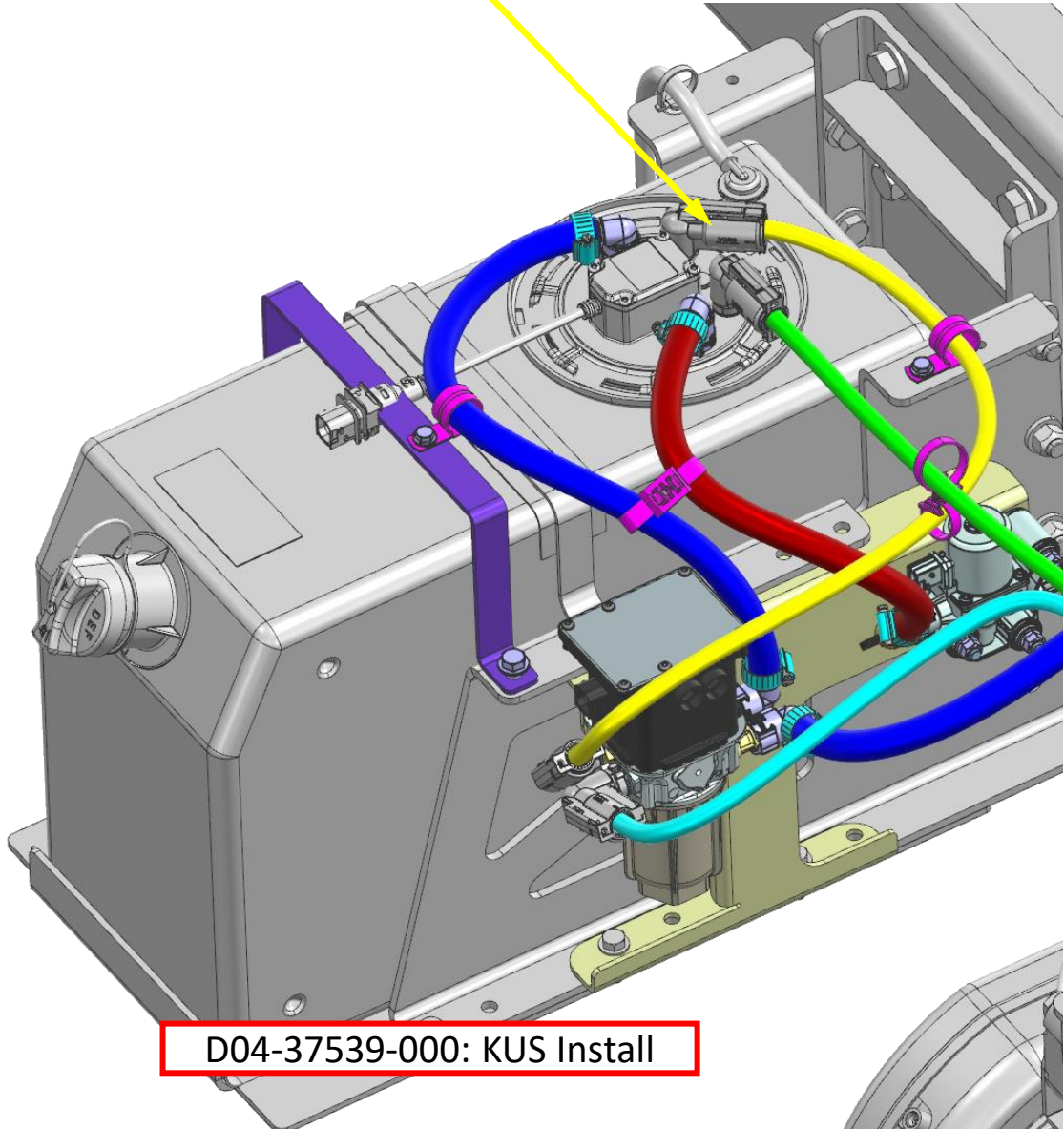
SSI Bill	KUS Bill	SSI Install	KUS Install
23W-C00668	23W-C00686	D04-33746-000	D04-37539-000
Supply: 04-33013-060	Supply: 04-33013-070		
Return: 04-33014-110	Return: 04-33014-110		
Pressure: 04-32032-120	Pressure: 04-32032-120		

DEF supply line:  
04-33013-060



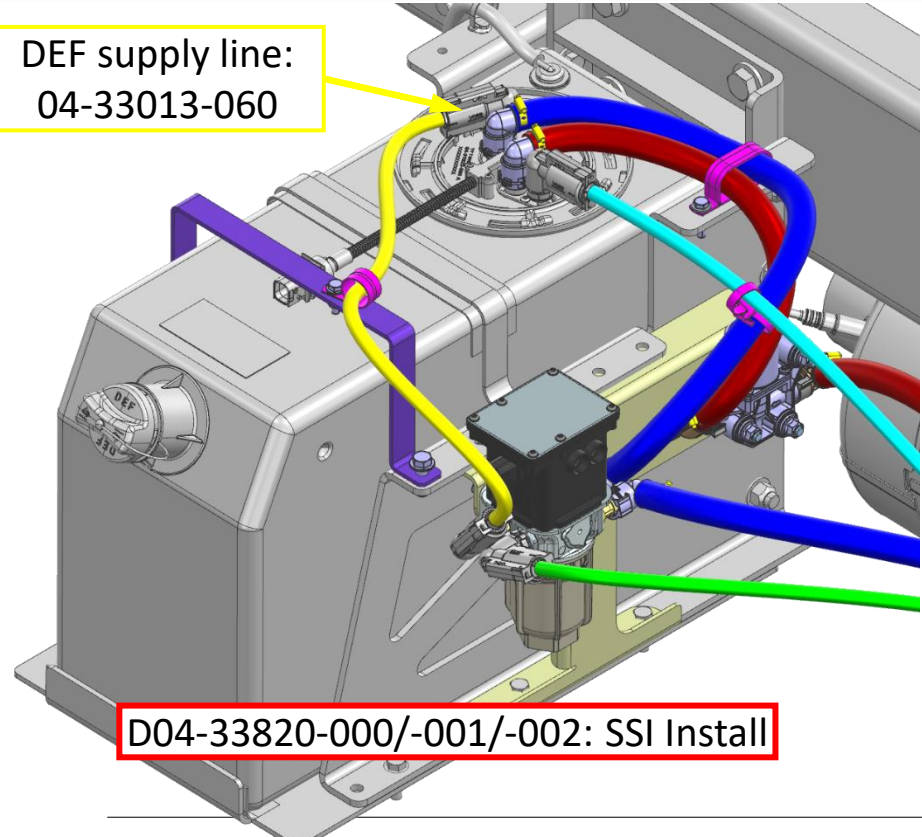
D04-33746-000: SSI Install

DEF supply line:  
04-33013-070

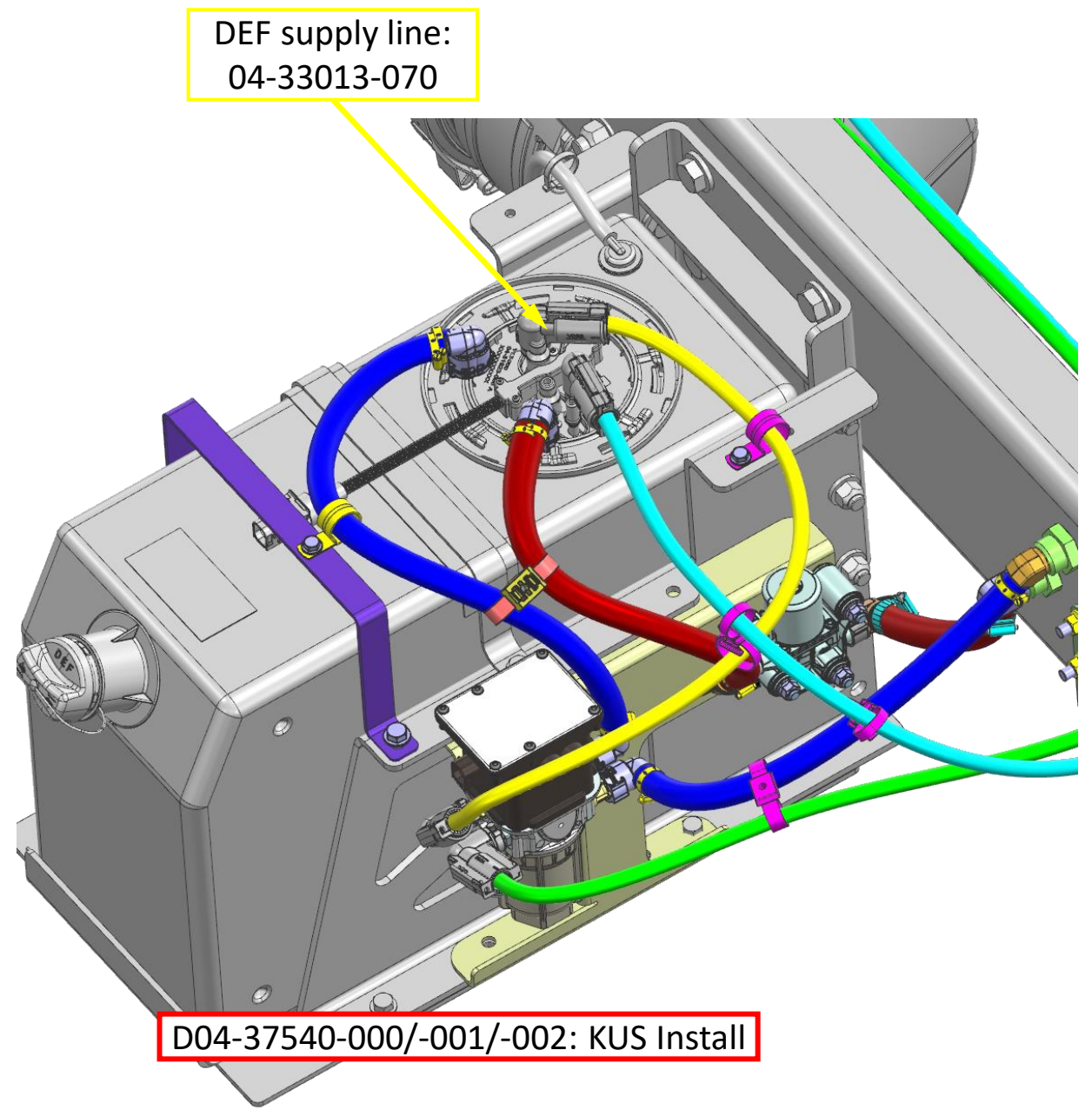


D04-37539-000: KUS Install

SSI Bill	KUS Bill	SSI Install	KUS Install
23W-C00669 Supply: 04-33013-060 Return: 04-33014-190 Pressure: 04-32032-200	23W-C00687 Supply: 04-33013-070 Return: 04-33014-190 Pressure: 04-32032-200	D04-33820-000	D04-37540-000
23W-C00670 Supply: 04-33013-060 Return: 04-33014-220 Pressure: 04-32032-220	23W-C00688 Supply: 04-33013-070 Return: 04-33014-220 Pressure: 04-32032-220	D04-33820-001	D04-37540-001
23W-C00671 Supply: 04-33013-060 Return: 04-33014-190 Pressure: 04-32032-180	23W-C00689 Supply: 04-33013-070 Return: 04-33014-190 Pressure: 04-32032-180	D04-33820-002	D04-37540-002



D04-33820-000/-001/-002: SSI Install



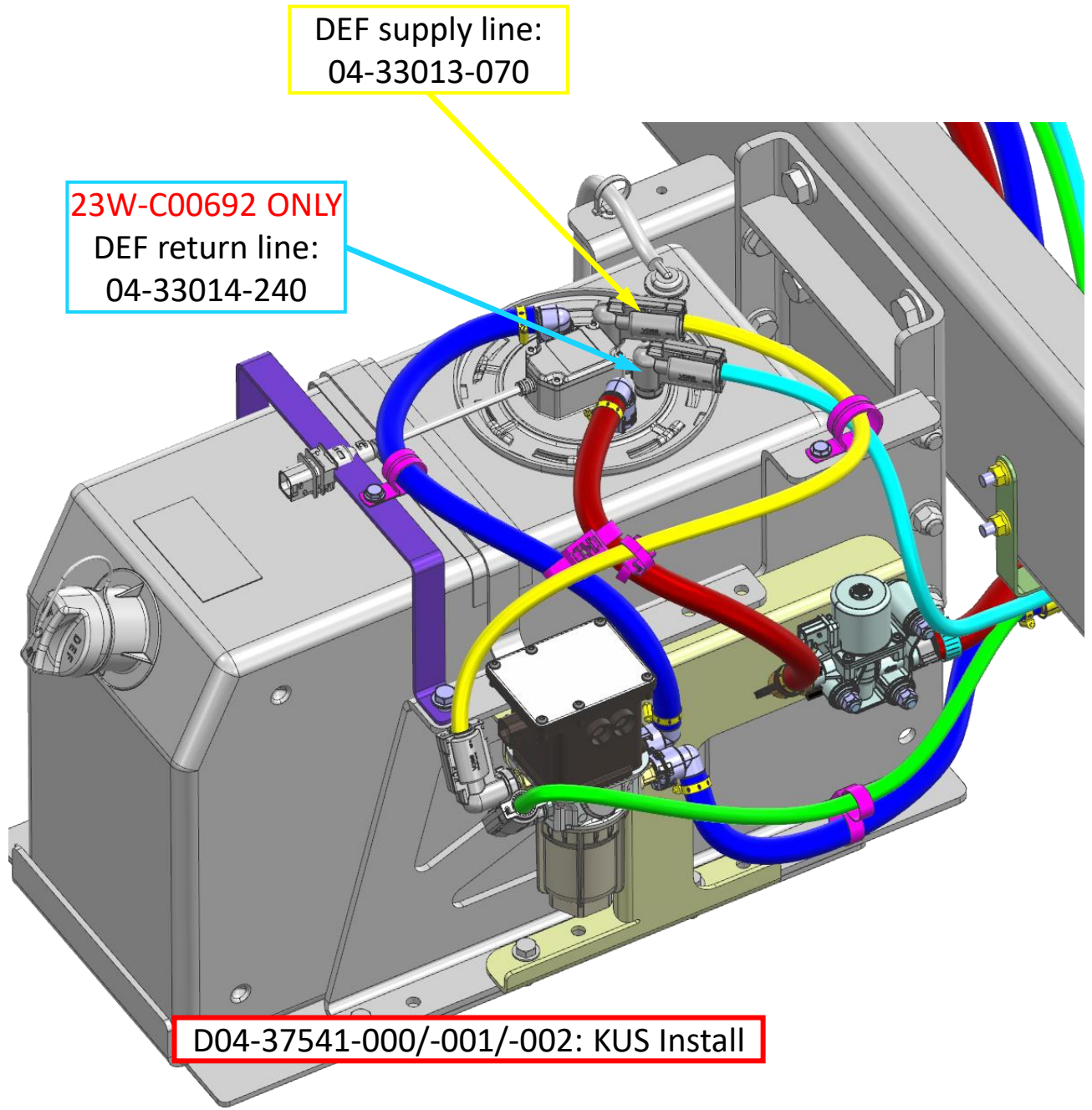
D04-37540-000/-001/-002: KUS Install

SSI Bill	KUS Bill	SSI Install	KUS Install
23W-C00672 Supply: 04-33013-060 Return: 04-33014-230 Pressure: 04-32032-260	23W-C00690 Supply: 04-33013-070 Return: 04-33014-230 Pressure: 04-32032-260	D04-33819-000	D04-37541-000
23W-C00673 Supply: 04-33013-060 Return: 04-33014-200 Pressure: 04-32032-200	23W-C00691 Supply: 04-33013-070 Return: 04-33014-200 Pressure: 04-32032-200	D04-33819-001	D04-37541-001
23W-C00674 Supply: 04-33013-060 Return: 04-33014-260 Pressure: 04-32032-280	23W-C00692 Supply: 04-33013-070 Return: 04-33014-240 Pressure: 04-32032-280	D04-33819-002	D04-37541-002

DEF supply line:  
04-33013-060

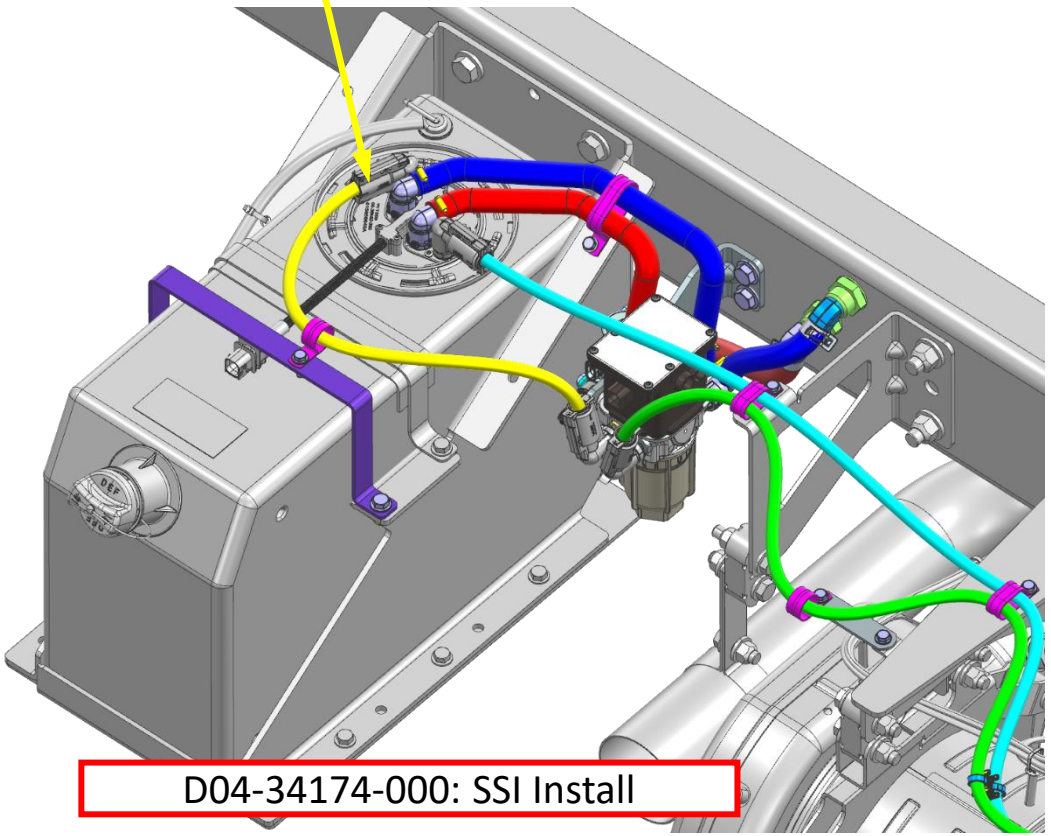
**23W-C00674 ONLY**  
DEF return line:  
04-33014-260

**D04-33819-000/-001/-002: SSI Install**



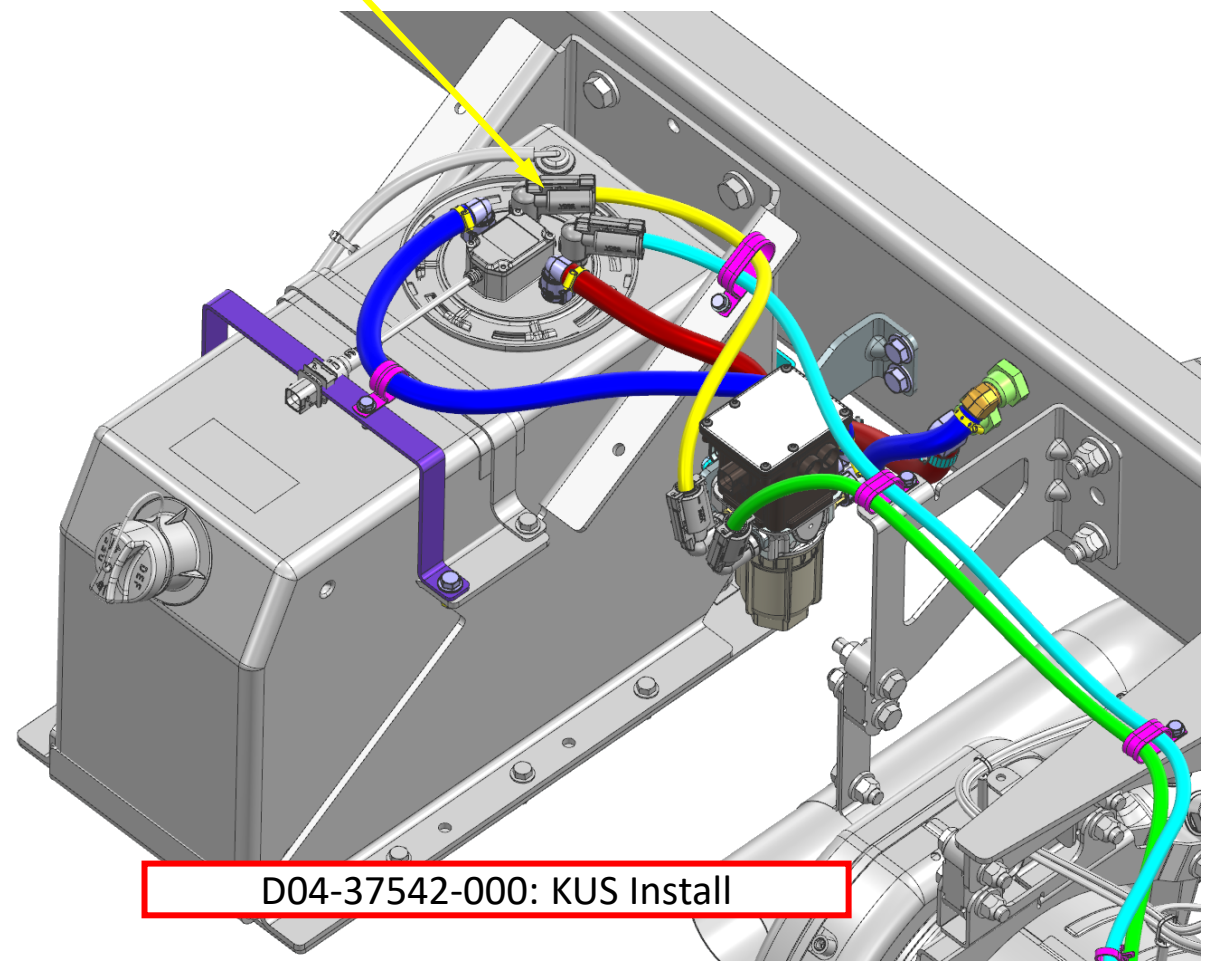
SSI Bill	KUS Bill	SSI Install	KUS Install
23W-C00675	23W-C00693	D04-34174-000	D04-37542-000
Supply: 04-33013-060	Supply: 04-33013-052		
Return: 04-33014-110	Return: 04-33014-110		
Pressure: 04-32032-120	Pressure: 04-32032-120		

DEF supply line:  
04-33013-060



D04-34174-000: SSI Install

DEF supply line:  
04-33013-052



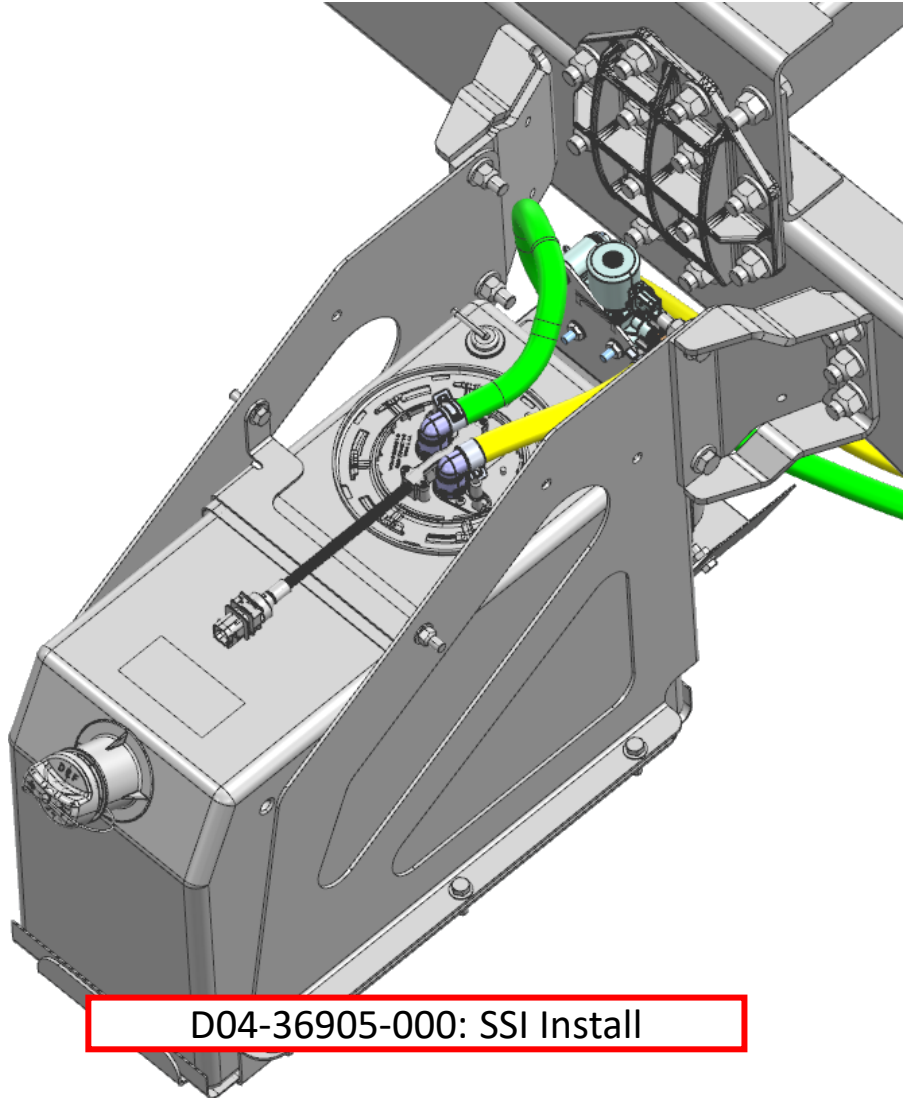
D04-37542-000: KUS Install



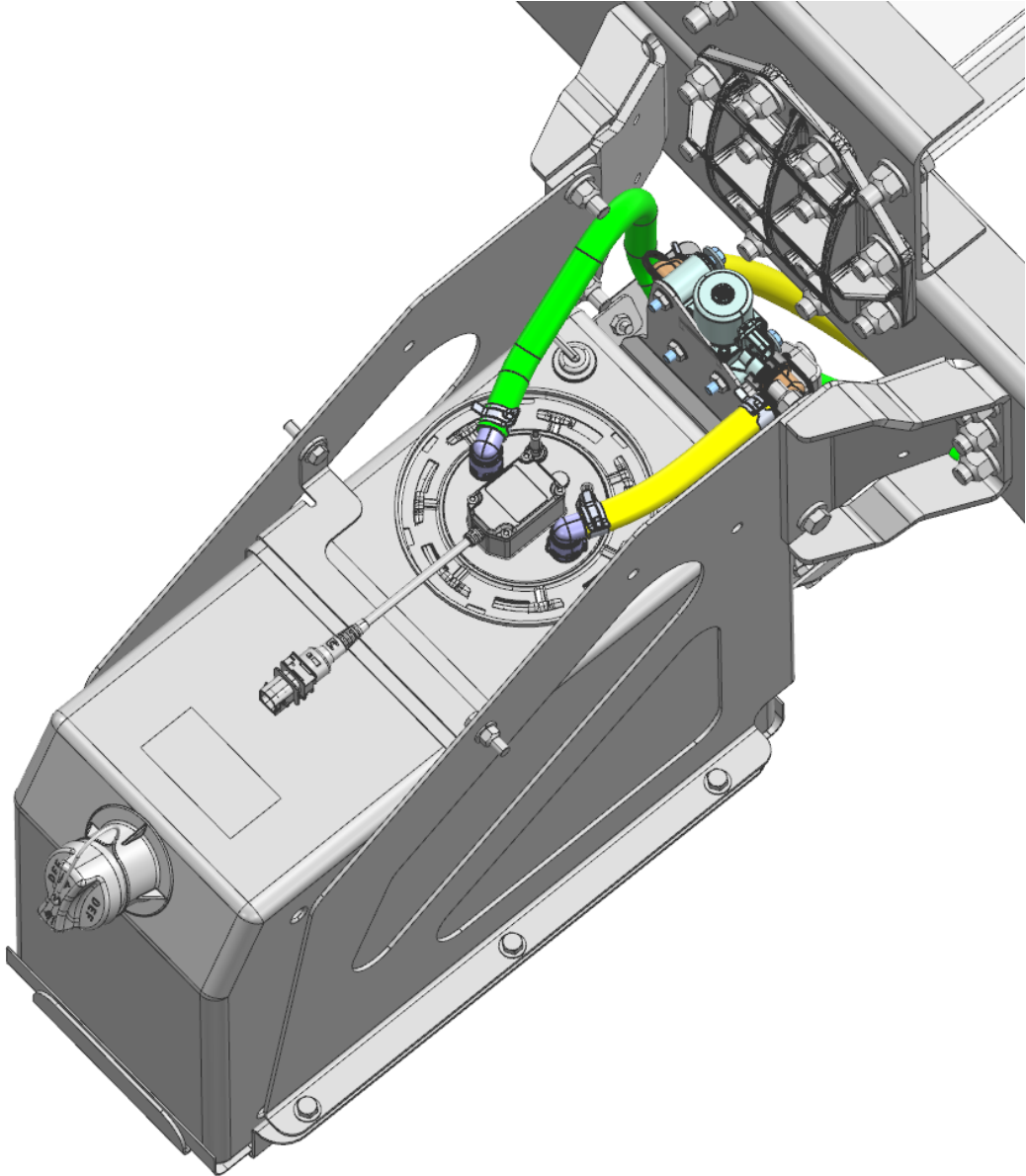
## 3. X Line Coolant Lines

Freightliner Custom Chassis Corp.

SSI Bill	KUS Bill	SSI Install	KUS Install
23V-C04905	23V-C04910	D04-36905-000	D04-37526-000
Only change is routing of coolant return line			



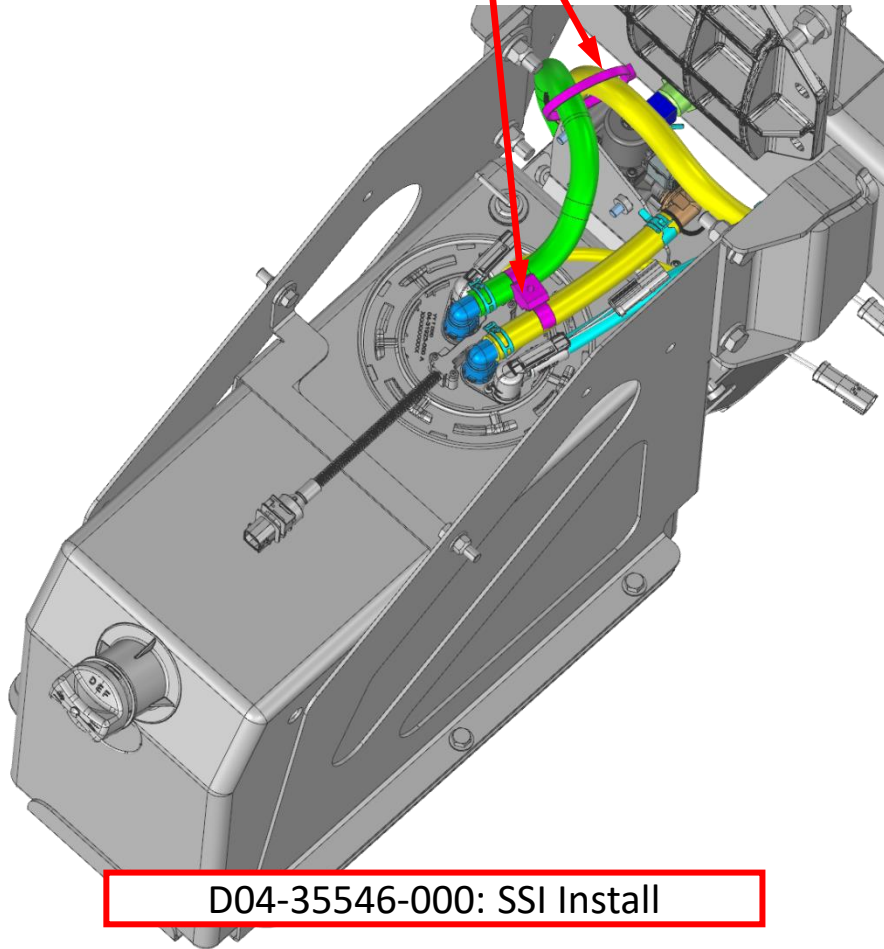
D04-36905-000: SSI Install



D04-37526-000: KUS Install

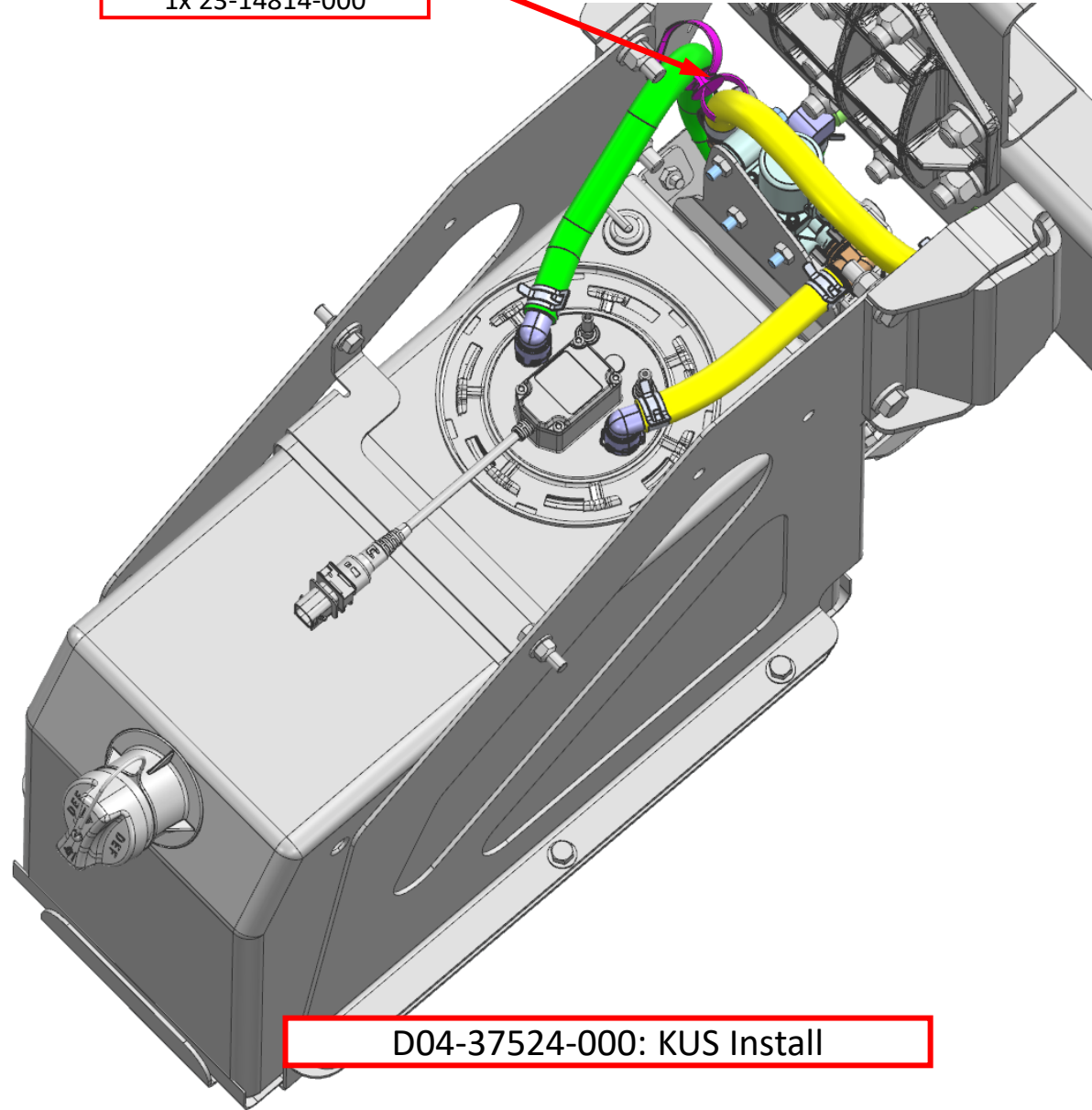
SSI Bill	KUS Bill	SSI Install	KUS Install
23V-C05525	23V-C05564	D04-35546-000	D04-37524-000

Remove zip tie & butterfly band



D04-35546-000: SSI Install

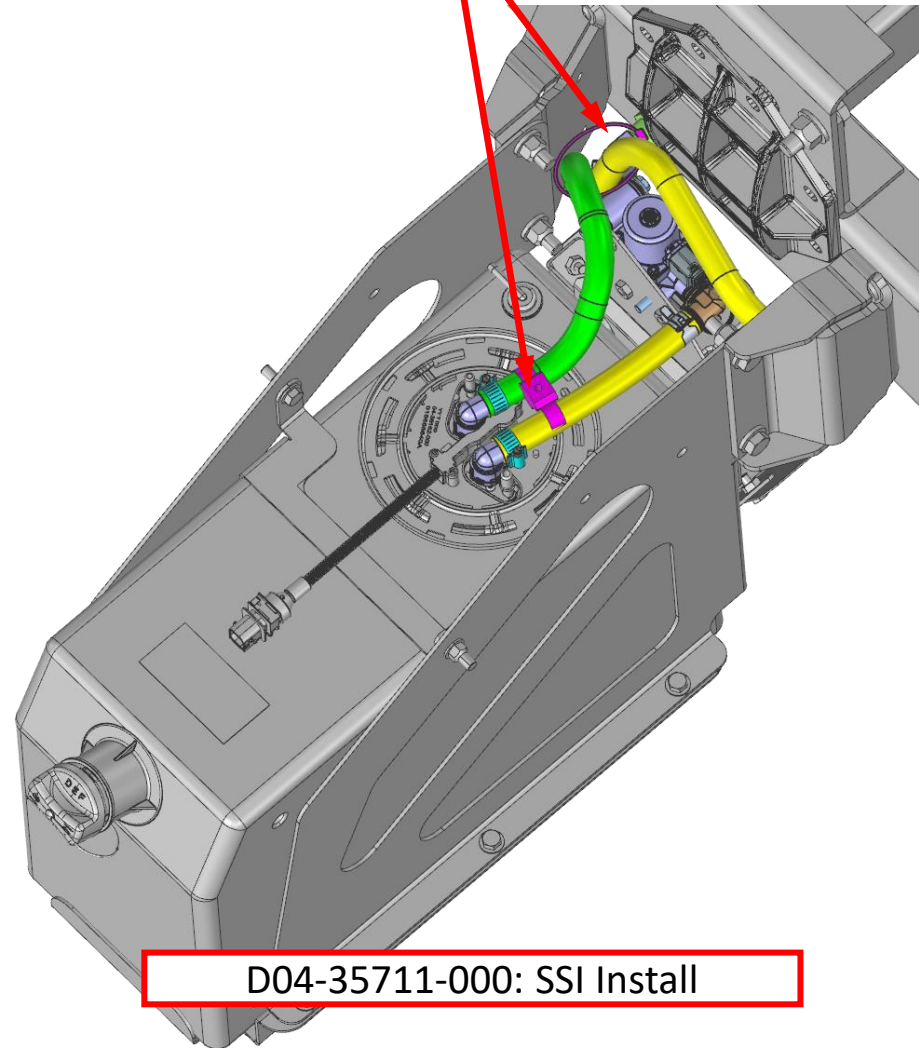
Coolant supply & return line clipping  
1x 23-14814-000



D04-37524-000: KUS Install

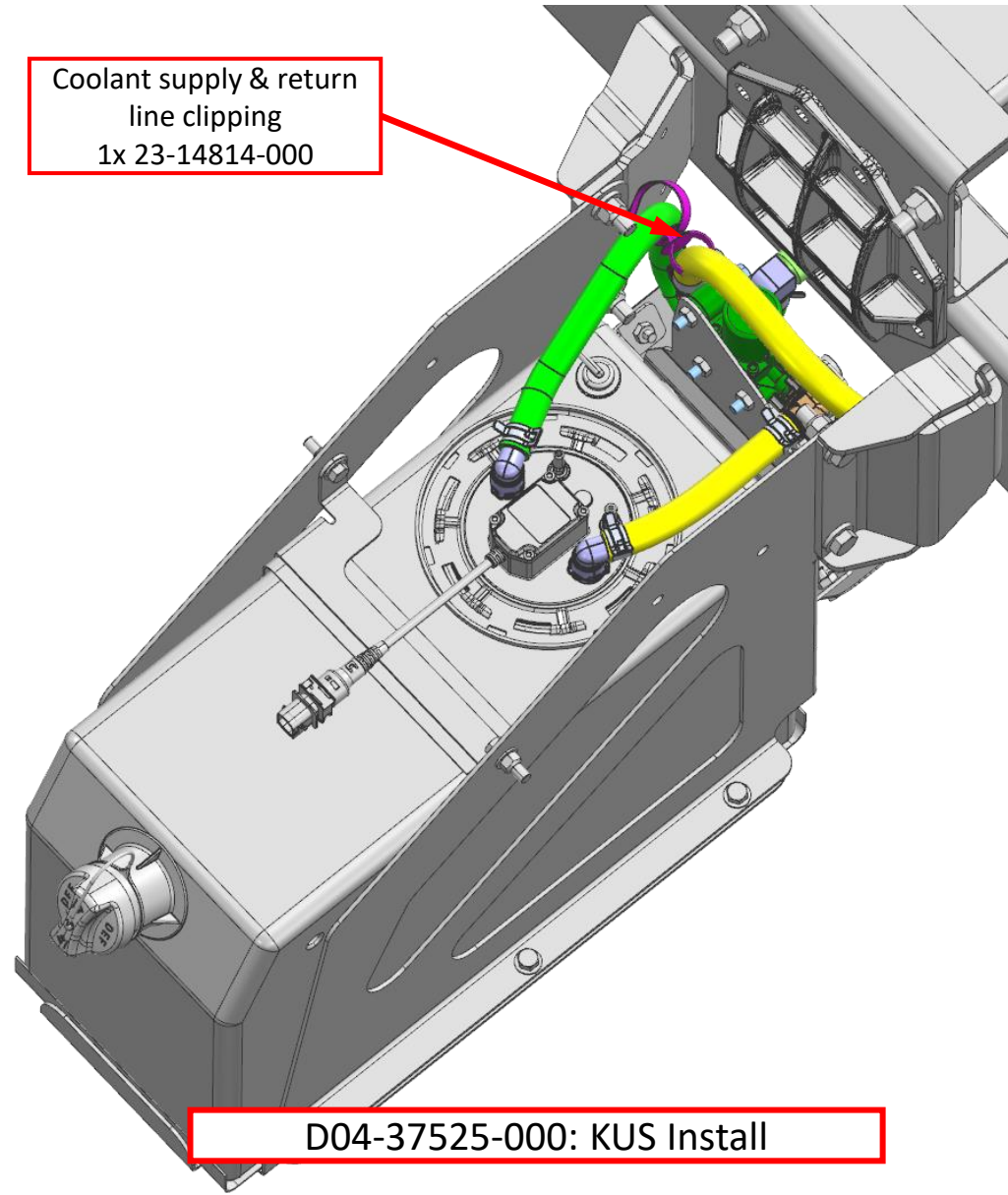
SSI Bill	KUS Bill	SSI Install	KUS Install
23V-C05534	23V-C05565	D04-35711-000	D04-37525-000

Remove zip tie & butterfly band



D04-35711-000: SSI Install

Coolant supply & return line clipping  
1x 23-14814-000



D04-37525-000: KUS Install



## 4. X Line DEF Lines

Freightliner Custom Chassis Corp.

SSI Bill	KUS Bill	SSI Install	KUS Install
23W-C00386	23W-C14123	D04-35635-000	D04-37573-000
Supply: 04-33013-060	Supply: 04-33013-060		
Return: 04-33014-380	Return: 04-33014-380		
Pressure: 04-32032-360	Pressure: 04-32032-360		

