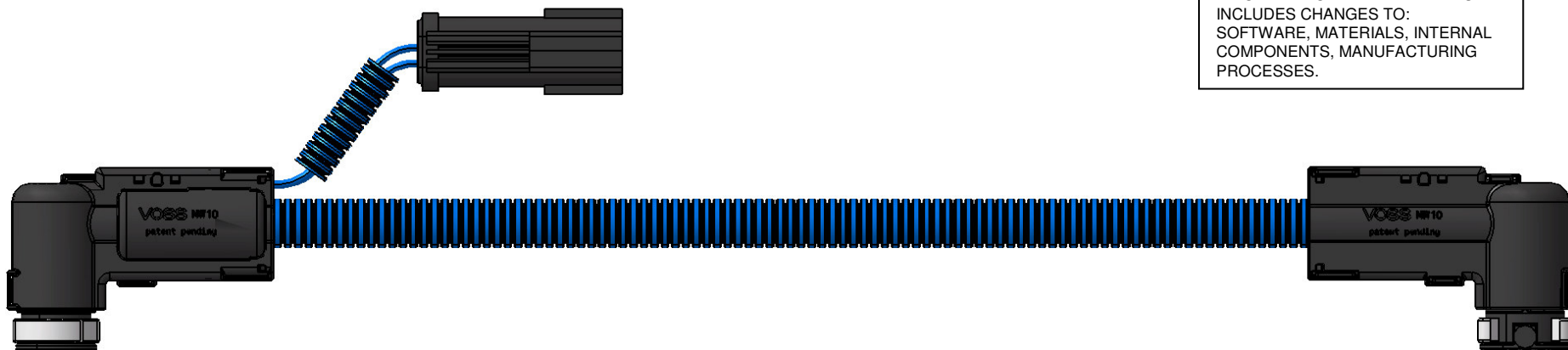


1. SUPPLIER: VOSS AUTOMOTIVE INC.
2. IDENTIFY COMPONENT PER SPEC 49-00051

RELEASE NUMBER	REV LTR	REVISION DESCRIPTION	BY	DATE	APPD
P49409-01	-	INITIAL RELEASE	J_M	07/14/14	CMR
P49736-01	A	ADDED -300 THRU -500	J_M	08/07/14	CMR
P49409-11	B	ADDED VENDOR DWG	J_M	05/21/15	CMR



DELIVERY MUST CONFORM EXACTLY WITH DRAWING SPECIFICATIONS AND, WHERE REQUIRED BY Q.A., WITH APPROVED Q.A. SAMPLES. ABSOLUTELY NO CHANGES ARE PERMITTED WITHOUT PRIOR APPROVAL BY DTNA. THIS INCLUDES CHANGES TO: SOFTWARE, MATERIALS, INTERNAL COMPONENTS, MANUFACTURING PROCESSES.

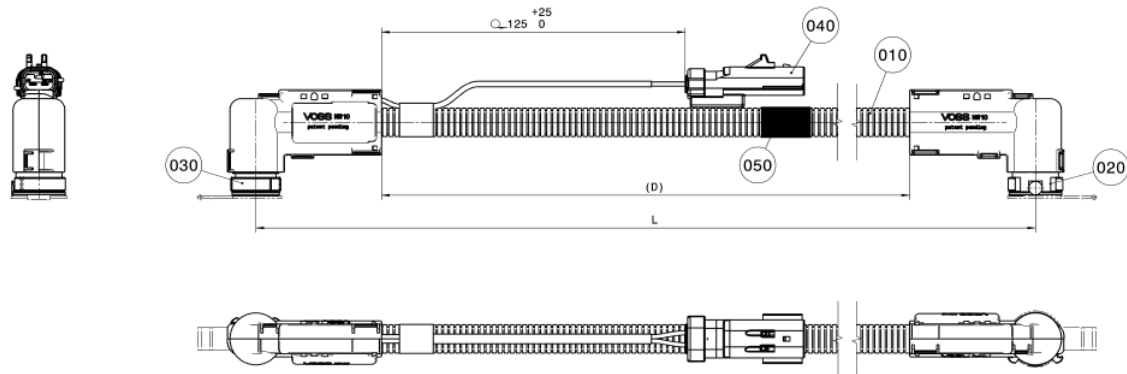
ITEM NUMBER	04-31887-320
DESCRIPTION	DEF LINE 90° 3/8 - 90° 5/16 ; 3200MM
ITEM NUMBER	04-31887-300
DESCRIPTION	DEF LINE 90° 3/8 - 90° 5/16 ; 3000MM
ITEM NUMBER	04-31887-280
DESCRIPTION	DEF LINE 90° 3/8 - 90° 5/16 ; 2800MM
ITEM NUMBER	04-31887-260
DESCRIPTION	DEF LINE 90° 3/8 - 90° 5/16 ; 2600MM
ITEM NUMBER	04-31887-240
DESCRIPTION	DEF LINE 90° 3/8 - 90° 5/16 ; 2400MM
ITEM NUMBER	04-31887-220
DESCRIPTION	DEF LINE 90° 3/8 - 90° 5/16 ; 2200MM
ITEM NUMBER	04-31887-200
DESCRIPTION	DEF LINE 90° 3/8 - 90° 5/16 ; 2000MM
ITEM NUMBER	04-31887-180
DESCRIPTION	DEF LINE 90° 3/8 - 90° 5/16 ; 1800MM
ITEM NUMBER	04-31887-160
DESCRIPTION	DEF LINE 90° 3/8 - 90° 5/16 ; 1600MM
ITEM NUMBER	04-31887-140
DESCRIPTION	DEF LINE 90° 3/8 - 90° 5/16 ; 1400MM
ITEM NUMBER	04-31887-120
DESCRIPTION	DEF LINE 90° 3/8 - 90° 5/16 ; 1200MM
ITEM NUMBER	04-31887-100
DESCRIPTION	DEF LINE 90° 3/8 - 90° 5/16 ; 1000MM

DAIMLER		Daimler Trucks North America	
THE INFORMATION CONTAINED HEREIN IS PROPRIETARY DATA, AND IS NOT FOR DISSEMINATION OR DISCLOSURE, IN WHOLE OR IN PART, FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SUBMITTED, EXCEPT AS AUTHORIZED IN WRITING BY DAIMLER TRUCKS NORTH AMERICA LLC (DTNA)			
MATERIAL APPROVAL	DATE	UNLESS OTHERWISE NOTED, DIMENSIONS AND TOLERANCES ARE DEFINED ACCORDING TO ASME Y14.5M-1994, WITH EXCEPTION PER DTNA 09ENG-WI037	
N/A	N/A		
DRAWN BY	DATE		
J.MCKNIGHT	07/14/14	THIRD ANGLE PROJECTION	UNITS OF MEASURE MM
CHECKED BY	DATE		
C.RIEFLIN	07/14/14		
RESPONSIBLE ENGINEER	DATE		
J.MCKNIGHT	07/14/14		
APPROVED BY	DATE		
C.RIEFLIN	07/14/14		
DESCRIPTION			
DEF LINE 90° 3/8 - 90° 5/16 RETURN			
SUPPLEMENTAL DESCRIPTION			
23W02			
ITEM/DRAWING NUMBER	REVISION LETTER	PAGE	
04-31887	B	1 of 3	

RELEASE NUMBER	REV LTR	REVISION DESCRIPTION	BY	DATE	APPD
P49409-01	-	INITIAL RELEASE	J_M	07/14/14	CMR
P49736-01	A	ADDED -300 THRU -500	J_M	08/07/14	CMR
P49409-11	B	ADDED VENDOR DWG	J_M	05/21/15	CMR

ITEM NUMBER	04-31887-500	<p style="text-align: center;"><b>DAIMLER</b></p> <p style="text-align: center;">Daimler Trucks North America</p> <p style="text-align: center; font-size: small;">THE INFORMATION CONTAINED HEREIN IS PROPRIETARY DATA, AND IS NOT FOR DISSEMINATION OR DISCLOSURE, IN WHOLE OR IN PART, FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SUBMITTED, EXCEPT AS AUTHORIZED IN WRITING BY DAIMLER TRUCKS NORTH AMERICA LLC (DTNA)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">MATERIAL APPROVAL</td> <td style="width: 20%;">DATE</td> <td rowspan="4" style="width: 30%; text-align: center; font-size: x-small;">UNLESS OTHERWISE NOTED, DIMENSIONS AND TOLERANCES ARE DEFINED ACCORDING TO ASME Y14.5M-1994, WITH EXCEPTION PER DTNA 09ENG-WI037</td> </tr> <tr> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>DRAWN BY</td> <td>DATE</td> </tr> <tr> <td>J.MCKNIGHT</td> <td>07/14/14</td> </tr> <tr> <td>CHECKED BY</td> <td>DATE</td> <td rowspan="2" style="text-align: center;">THIRD ANGLE PROJECTION </td> </tr> <tr> <td>C.RIEFLIN</td> <td>07/14/14</td> </tr> <tr> <td>RESPONSIBLE ENGINEER</td> <td>DATE</td> <td rowspan="2" style="text-align: center;">UNITS OF MEASURE MM</td> </tr> <tr> <td>J.MCKNIGHT</td> <td>07/14/14</td> </tr> <tr> <td>APPROVED BY</td> <td>DATE</td> <td></td> </tr> <tr> <td>C.RIEFLIN</td> <td>07/14/14</td> <td></td> </tr> </table>	MATERIAL APPROVAL	DATE	UNLESS OTHERWISE NOTED, DIMENSIONS AND TOLERANCES ARE DEFINED ACCORDING TO ASME Y14.5M-1994, WITH EXCEPTION PER DTNA 09ENG-WI037	N/A	N/A	DRAWN BY	DATE	J.MCKNIGHT	07/14/14	CHECKED BY	DATE	THIRD ANGLE PROJECTION	C.RIEFLIN	07/14/14	RESPONSIBLE ENGINEER	DATE	UNITS OF MEASURE MM	J.MCKNIGHT	07/14/14	APPROVED BY	DATE		C.RIEFLIN	07/14/14	
MATERIAL APPROVAL	DATE		UNLESS OTHERWISE NOTED, DIMENSIONS AND TOLERANCES ARE DEFINED ACCORDING TO ASME Y14.5M-1994, WITH EXCEPTION PER DTNA 09ENG-WI037																								
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J.MCKNIGHT	07/14/14																										
APPROVED BY	DATE																										
C.RIEFLIN	07/14/14																										
DESCRIPTION	DEF LINE 90° 3/8 – 90° 5/16 ; 5000MM																										
ITEM NUMBER	04-31887-480																										
DESCRIPTION	DEF LINE 90° 3/8 – 90° 5/16 ; 48000MM																										
ITEM NUMBER	04-31887-460																										
DESCRIPTION	DEF LINE 90° 3/8 – 90° 5/16 ; 4600MM																										
ITEM NUMBER	04-31887-440																										
DESCRIPTION	DEF LINE 90° 3/8 – 90° 5/16 ; 44000MM																										
ITEM NUMBER	04-31887-420																										
DESCRIPTION	DEF LINE 90° 3/8 – 90° 5/16 ; 4200MM																										
ITEM NUMBER	04-31887-400																										
DESCRIPTION	DEF LINE 90° 3/8 – 90° 5/16 ; 40000MM																										
ITEM NUMBER	04-31887-380																										
DESCRIPTION	DEF LINE 90° 3/8 – 90° 5/16 ; 3800MM																										
ITEM NUMBER	04-31887-360																										
DESCRIPTION	DEF LINE 90° 3/8 – 90° 5/16 ; 3600MM																										
ITEM NUMBER	04-31887-340																										
DESCRIPTION	DEF LINE 90° 3/8 – 90° 5/16 ; 3400MM																										
DESCRIPTION		DEF LINE 90° 3/8 - 90° 5/16 RETURN																									
SUPPLEMENTAL DESCRIPTION		23W02																									
ITEM/DRAWING NUMBER	<b>04-31887</b>	REVISION LETTER	<b>B</b>	PAGE	2 of 3																						

Line performance	
Operating medium	NOx-reduction agent AUS32 acc. ISO 22241
Sustained media temperature range (max.)	+70°C (+80°C)
Max. temperature for electrical operating	+5°C
Operating voltage for line	Nom 14,2 V; Max 16,0 V
Line resistance	See table A
Line heating capacity	See table A
Min. electrical fusing for line	See table A
Max. working pressure absolute	11,4bar
Sustained operating temperature range (environment)	-40°C to +120°C
VOSS specification	VOSS specification SCR Rev.06 PA; Document number 100000270009

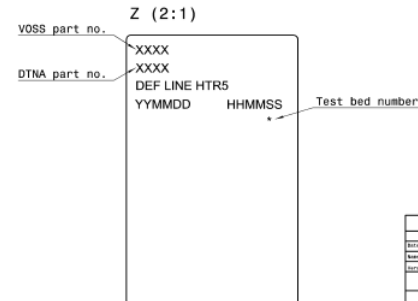


Components table

Pos.	Qty.	Designation	VOSS Part-No.	Comment
010	1	Tube assembly		
020	1	WKU SV241 3/8" 5x1 Laser welded	5 2 41 02 68 OR	PA-tube ID 3mm; (not shown) Corrugated tube NS10 Designed for assembly on mating contour in acc. with SAE J2044.
030	1	WKU SV241 5/16" 5x1 Laser welded	5 2 41 02 66 OR	Designed for assembly on mating contour in acc. with SAE J2044.
040	1	E-plug		Delphi # 54200211
050	1	Label		Imprinting see detail Z

Table A

DTNA Part-No.	VOSS Article-No.	L (mm)	Tolerance ±Xmm	D (mm)	Line Resistance Ohms @ 20°C	Tolerance ±X%	Line heating Capacity @ 14,2V	Min. electrical fusing for line @ 14,2V
04-31887-100	115463699900	1122	10	1000	10,24	20	19,7 W	2,0 A
04-31887-120	115463700000	1322	10	1200	8,76	20	23,0 W	2,3 A
04-31887-140	115463700100	1522	10	1400	7,98	20	25,3 W	2,5 A
04-31887-160	115463700200	1722	10	1600	7,00	20	28,8 W	2,9 A
04-31887-180	115463700300	1922	10	1800	6,52	20	30,9 W	3,1 A
04-31887-200	115463700400	2122	10	2000	5,91	20	34,1 W	3,4 A
04-31887-220	115463699960	2322	10	2200	5,55	20	36,3 W	3,7 A
04-31887-240	115463699700	2522	10	2400	5,13	20	39,3 W	4,0 A
04-31887-260	115463699800	2722	10	2600	4,99	15	40,4 W	3,9 A
04-31887-280	115463700500	2922	10	2800	4,84	15	41,7 W	4,0 A



Rev.	Change	Reason	Rev. Issued	Rev. Date
01	01	18.05.2015	18.05.2015	
02	02	18.05.2015	18.05.2015	

Scale: 1:1  
Drawing extension: 115463699960  
Size: ISO 14495

VOSS  
D-53389 Wipperfurth  
100000501561 2400 / 000 / 144 / 11 rev 1

ZSB SCR DTNA 04-31887-XXXX  
1154636999600