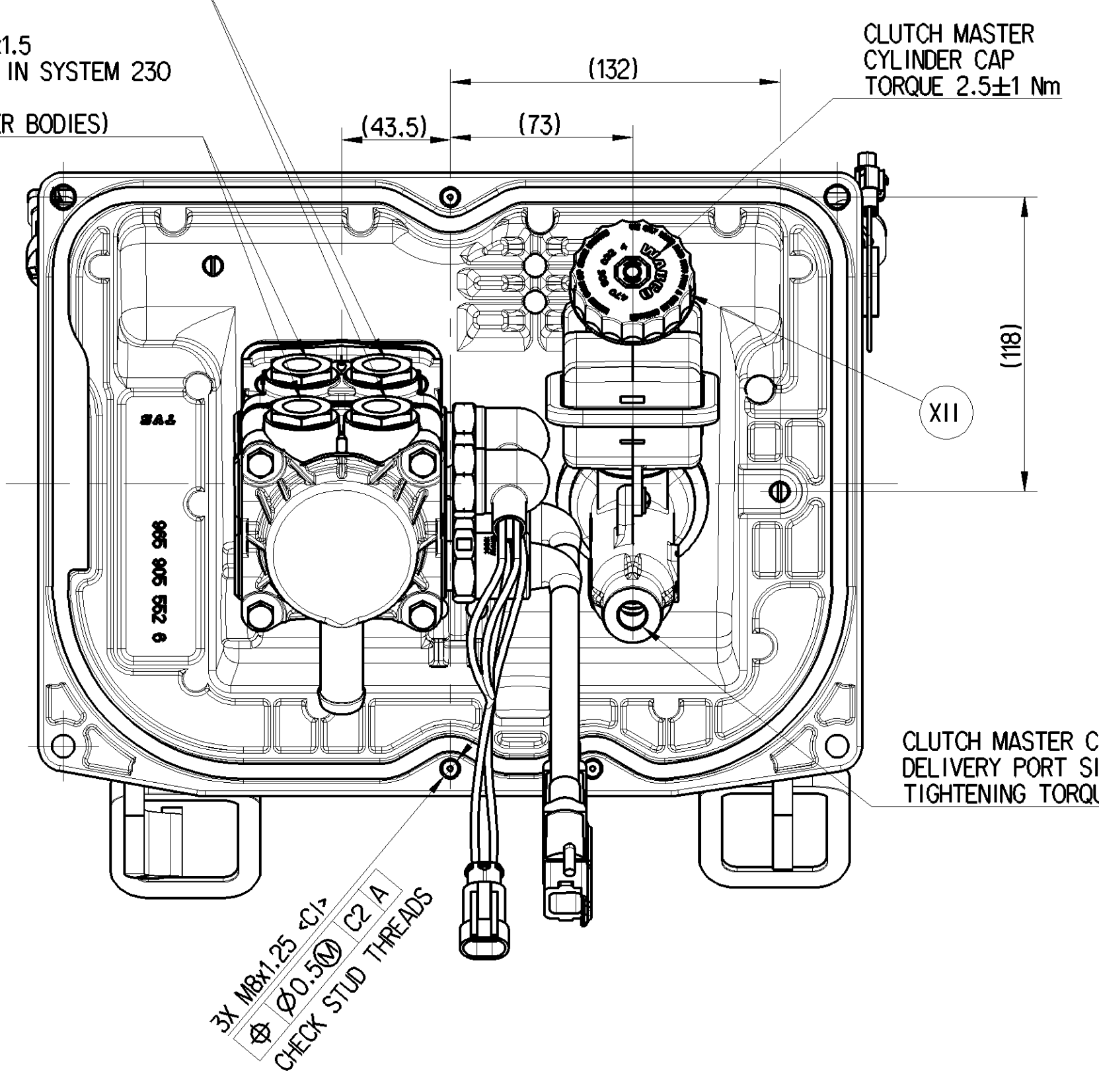
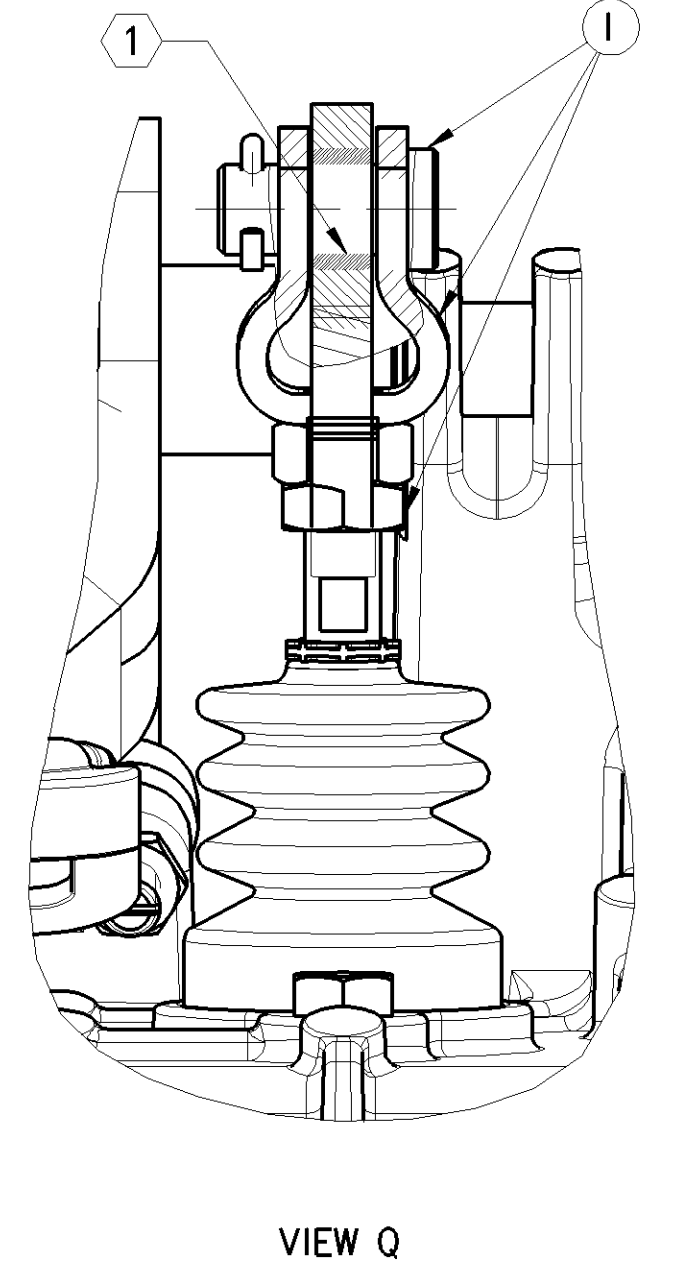
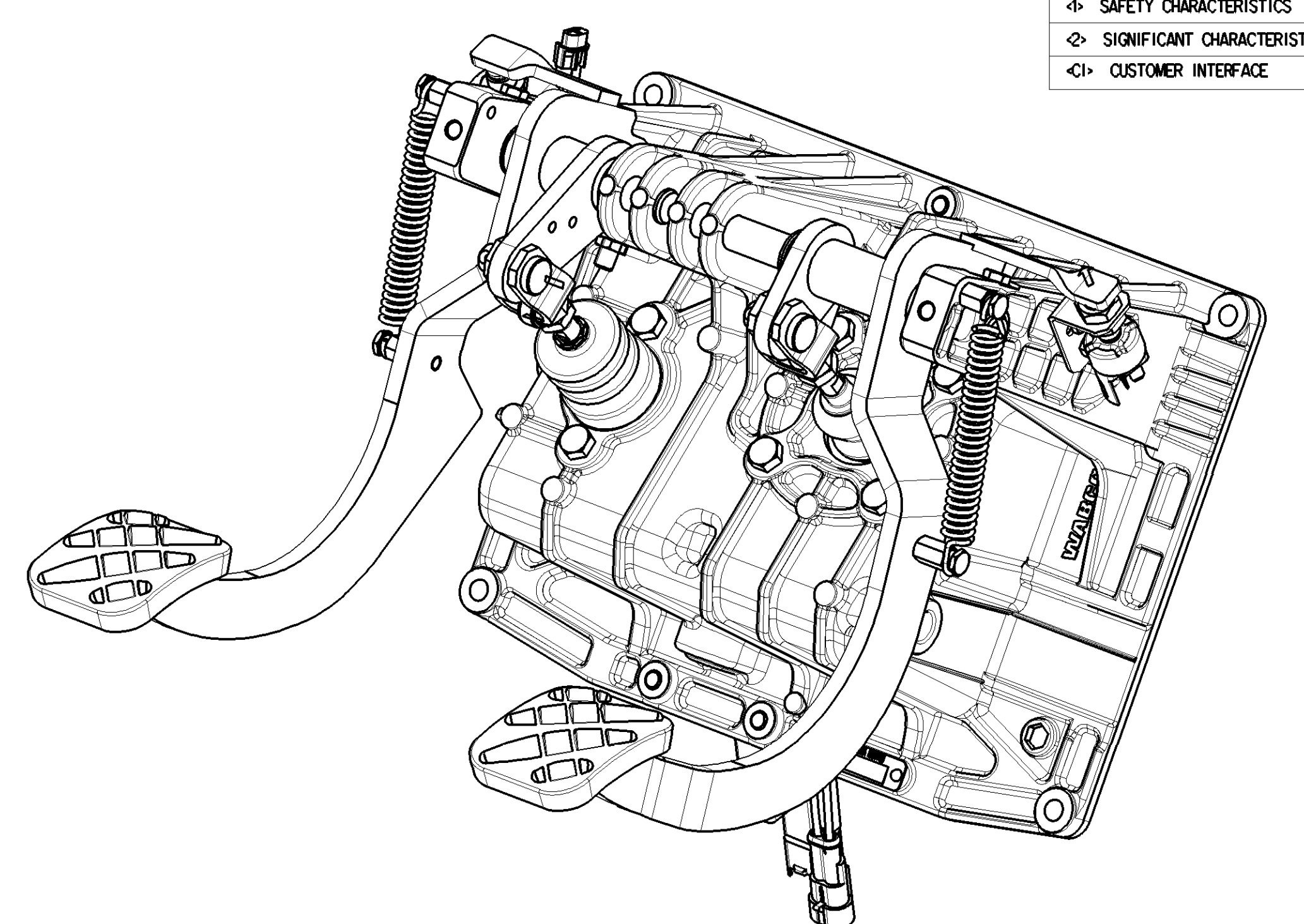
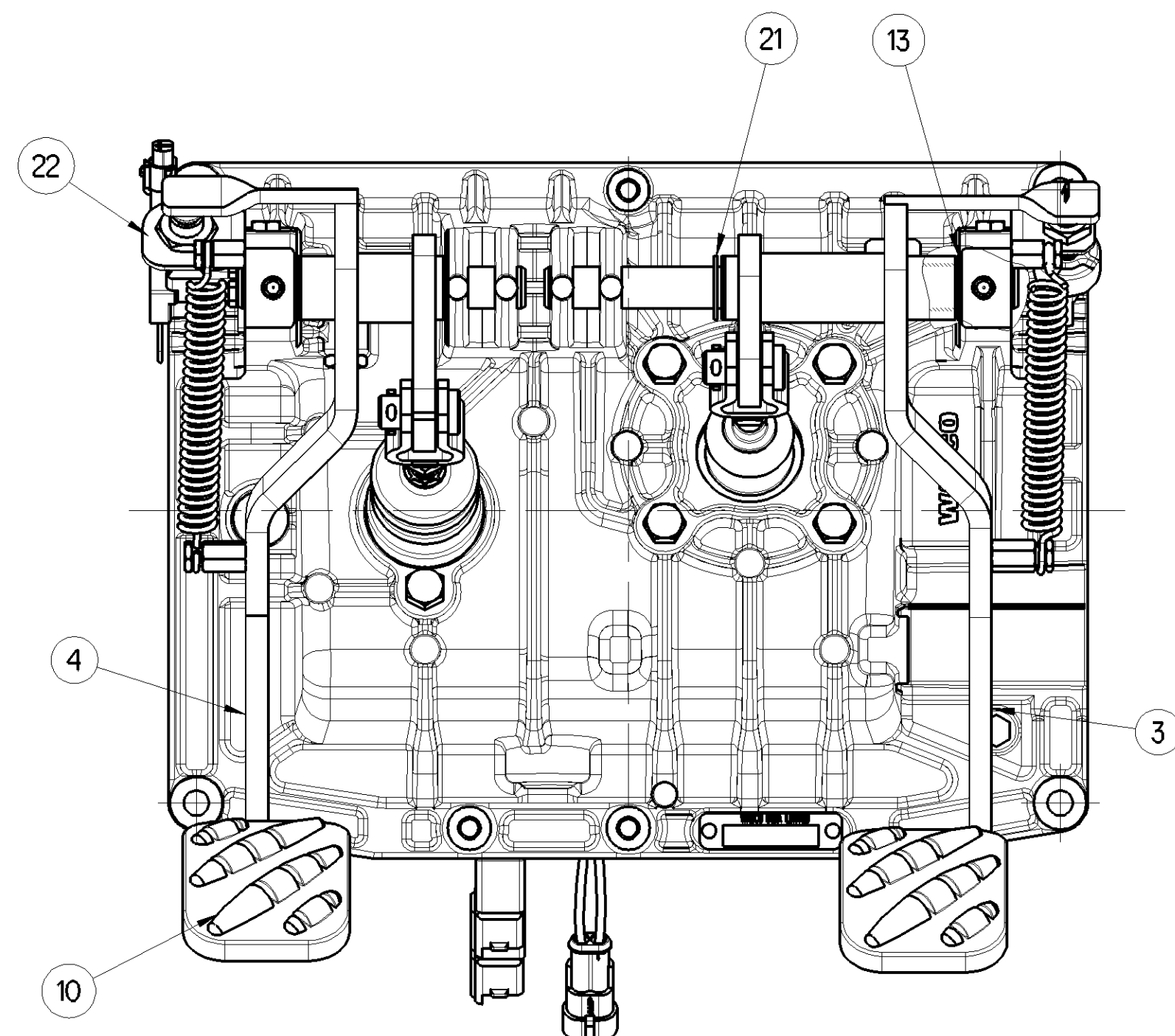


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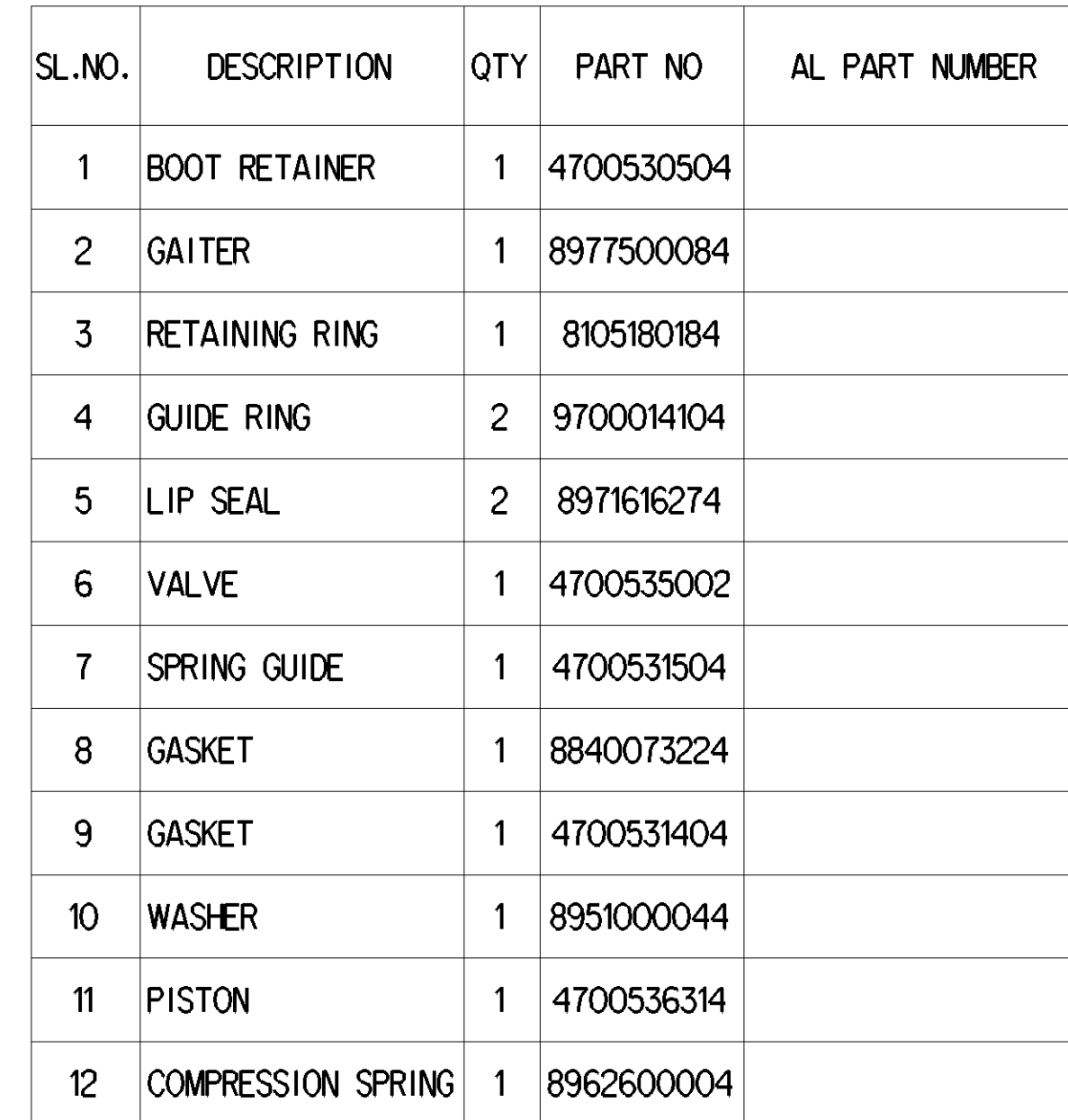
SI No.	DESCRIPTION	WABCO PART NUMBER	QTY.	AL PART NUMBER
8	PRESSURE SENSORS	8841014260	2	
9	STOP LIGHT SWITCHES	4410010570	2	
10	PEDAL COVER	9650014764	2	
11	GASKET	9650011494	1	
12	SPRING	8960701574	2	
13	PLAIN BEARING	8997598654	4	
14	PIN	9659077194	2	
15	SPLIT PIN	8105110004	2	
16	PEDAL STOPPER	9659050322	2	
17	BUSHING	9650011624	2	
18	GASKET	8840073224	2	
19	GASKET	9650011424	1	
20	PEDAL STOPPER	9659100012	1	
21	RETAINING WASHER	8100000124	1	
22	BRACKET	9659050284	1	
23	BRACKET	9659050294	1	
-	GREASE SACHET	M919910	1	



The diagram shows the state of the clutch switch over a range of pedal travel from 0 to 132 mm. The switch is closed (solid black bar) from 0 to 22 mm and remains closed until 17 to 25 mm. From 22 mm to 132 mm, the switch is open (hatched bar).

Pedal Travel (mm)	Clutch Switch Condition
0 - 22	CLOSED CONDITION
22 - 132	OPEN CONDITION

SL.NO	DESCRIPTION	CLUTCH SWITCH	BRAKE SWITCH	STOP LIGHT SWITCH
1	RATED CURRENT OF THE SWITCH	10 mA max.	2A max, RESISTIVE	10A, (6A RESISTIVE & 4A INDUCTIVE)
2	NOMINAL OPERATING VOLTAGE	12 V / 24 V DC	12 V / 24 V DC	12 V / 24 V DC
3	OPERATING VOLTAGE RANGE	8 TO 32 V DC	8 TO 32 V DC	8 TO 32 V DC
4	CONTACT CONFIGURATION	NORMALLY CLOSED	NORMALLY CLOSED	NORMALLY OPEN
5	CONTACT CLOSING PRESSURE (bar)	NA	NA	0.5 MAX
6	TERMINAL	Lucar Blades - 2 x (6 x 0.8)mm	Lucar Blades - 2 x (6 x 0.8)mm	4MM EYE LET
7	OPERATING TEMPERATURE	-40° C TO +85° C	-40° C TO +80° C	-40° C TO +85° C
8	CONTACT RESISTANCE BEFORE ENDURANCE	5 Ω	25 m Ω	10 m Ω
9	CONTACT RESISTANCE AFTER ENDURANCE	20 Ω	150 m Ω	60 m Ω
10	LIFE OF THE SWITCH (MEASURED IN CYCLES)	1x10 ⁶ CYCLES	2x10 ⁵ CYCLES	1x10 ⁶ CYCLES
11	IP LEVEL OF THE SWITCH	IP64, against dust and water	IP4, against dust	IP6K4, against dust and water (at inlet port sealed condition)
12	MATERIAL/PLATING SPECIFICATIONS OF THE TERMINALS	BRASS	BRASS, TIN PLATED	BRASS
13	PEDAL TRAVEL AT WHICH THE SWITCH CLOSE AND OPEN	CLUTCH PEDAL TRAVEL FOR CLUTCH SWITCH ACTUATION : (NO TO NC) : 17 - 25mm CLUTCH SWITCH TO CHANGE STATE FROM NO TO NC DURING PEDAL TRAVEL	BRAKE PEDAL TRAVEL FOR BRAKE SWITCH ACTUATION : (NO TO NC) : 8.75 - 12.5mm. BRAKE SWITCH TO CHANGE STATE FROM NO TO NC DURING PEDAL TRAVEL	NA
14	OPERATING FORCE	7 to 11N	15N MAX	NA
15	APPLICATIONS	1. ECU 2. INTERRUPT MODE FOR CRUISE CONTROL	EXHAUST BRAKE SIGNAL	1. STOP LIGHT SIGNAL
16	WIRE LENGTH	150mm	NIL	REFER SHEET 3/5
17	CONNECTOR	IPU END CONNECTOR : TYCO 174354-2. RECOMMENDED MATING CONNECTOR: TYCO-0-0174352	RECOMMENDED MATING CONNECTOR: BESMAK - 2FT 250 FHCL	END CONNECTOR PART NUMBER : 282104-1 / TYCO ③ CABLE TAG TO BE USED TO CLAMP WIRING HARNESS WITH CMC. THE CABLE TAG TO BE REMOVED BEFORE CONNECTING WIRING HARNESS AT CUSTOMER END WIRING HARNESS ROUTING ONLY FOR REFERENCE. RECOMMENDED MATING CONNECTOR : 282080-1 / TYCO



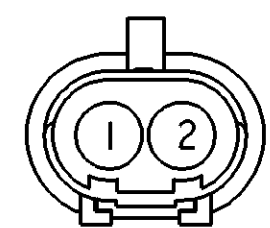
4 PRESSURE SENSOR SHOWN IN THE DRAWING IS FOR PICTORIAL REPRESENTATION ONLY.
ACTUAL PART WILL VARY.

WABCO IS ONLY RESPONSIBLE FOR VOLTAGE Vs PRESSURE CHECK AND
JOINT LEAK CHECK OF PRESSURE SENSORS ON DBV ASSEMBLY.
ANY LIABILITIES ON THE FAILURE OF THE PRESSURE SENSOR IS THE
SOLE RESPONSIBILITY OF ASHOK LEYLAND.

[illegible]

- NOTES:
- OPERATING VOLTAGE : 08-32 V DC
- OPERATING TEMPERATURE : -40 TO + 85°C
1. ALL DIMENSIONS ARE IN mm
 2. ALL DIMENSIONS ARE UPTO REAR END OF THE CONNECTOR AND CENTER OF THE EYE-LET TERMINAL UNLESS OTHERWISE SPECIFIED
 3. ALL CONNECTORS VIEW SHOWN FROM WIRE ENTRY SIDE UNLESS OTHERWISE SPECIFIED
 4. COT TUBE TO MEET FLAMMABILITY REQUIREMENT AS PER UL94.V-2
 5. PRINTED STICKER TO BE PROVIDED ON ALL END OF BRANCHES
 6. SPLICE JOINTS TO BE MADE BY ULTRASONIC JOINT CRIMPING AND COVERED WITH JELLY FILLED HEAT SHRINK SLEEVE
 7. CUSTOMER MATING CONNECTORS TO MEET THE MANUFACTURERS INTERFACE DIMENSIONS
 8. FOR CONNECTORS AND CONTACTS MANUFACTURERS PRODUCT SPECIFICATION IS VALID
 9. FULL BLACK PVC TAPING TO BE DONE OVER THE CORRUGATED TUBES COVERING FULL WIRING HARNESS AND SPACE TAPE TO BE DONE ON THE WIRE BUNDLE
 10. PRINTED STICKER INDICATING CUSTOMER PART NUMBER SHALL BE PROVIDED AS PER LOCATION SHOWN. CONTENTS OF THE LABEL AS PER DEVICE DOC.922
 11. ALL THE CABLES SHALL BE COVERED WITH FIRE RETARDANT SLIT TYPE CORRUGATED TUBES (PPFR) OF BLACK COLOR. CORRUGATED TUBES ARE SELECTED BASED ON BUNDLE DIAMETER / MANUFACTURING FEASIBILITY
 12. FOR INSTALLATION RESTRICTIONS PLEASE REFER 449 000 000 0 (DOC 011)
 13. SPLIT JOINTS / BRANCH NODES - BLACK COLOR COTTON INSULATION TAPES SHALL BE USED AT JOINTS
 14. ALL WIRES TO MEET ISO 6722:2006 (CLASS A) & FLAMMABILITY REQUIREMENTS TO MEET ISO 6722
 15. FURTHER TECHNICAL DATA AS PER THE PRODUCT SPECIFICATION 4477000272 (DOC 035)
 16. CUSTOMER CHOOSEN CONNECTOR , ALL LIABILITIES AND CONSEQUENCES BELONGS TO CUSTOMER- ③

② 2 -POLE MALE CONNECTOR



CONNECTOR : 1.5 SUPERSEAL HOUSING 2M B
SUPPLIER : TYCO
SUPPLIER P/N : 282104-1

ADDITIONAL COMPONENTS			
S.NO	TYPE	SUPPLIER	SUPPLIER P/N
1	IDENTIFICATION LABEL	-	-

STOP LIGHT SWITCH-1.1
CONNECTOR : RING TRML Ø4 (0.5-1.5)
SUPPLIER : TT
SUPPLIER P/N : TT-1841(TC)

RED COLOUR BOOT

STOP LIGHT SWITCH-1.2
CONNECTOR : RING TRML Ø4 (0.5-1.5)
SUPPLIER : TT
SUPPLIER P/N : TT-1841(TC)

BLACK COTTON TAPE

IDENTIFICATION STICKER

COTTON BLACK TAPE

SP01			
DIRECTION	WIRE NO.	COL.	CSA
L	WIRE1	R/Y	0.5
R	WIRE2	R/Y	0.5
R	WIRE3	R/Y	0.5

SP02			
DIRECTION	WIRE NO.	COL.	CSA
L	WIRE4	R/W	1
L	WIRE5	R/W	1
R	WIRE6	R/W	1

STOP LIGHT SWITCH-2.2
CONNECTOR : RING TRML Ø4 (0.5-1.5)
SUPPLIER : TT
SUPPLIER P/N : TT-1841(TC)

STOP LIGHT SWITCH-2.1
CONNECTOR : RING TRML Ø4 (0.5-1.5)
SUPPLIER : TT
SUPPLIER P/N : TT-1841(TC)

VEHICLE MODEL	CUSTOMER OFFER PART NO.	CUSTOMER ALLOTTED WABCO PART NO.
-	-	-

SYMBOL	SYMBOL DESCRIPTION
	SPACE TAPE
	SPIRAL / ROUGH TAPE
	FULL / OVERLAP TAPE
	POINT / SPOT TAPE
	JUNCTION COTTON TAPE
	COT TUBE
	SPLICE
	WIRE BUNDLE
	JUNCTION PVC TAPE
	BRAID TUBE
	PVC TUBE

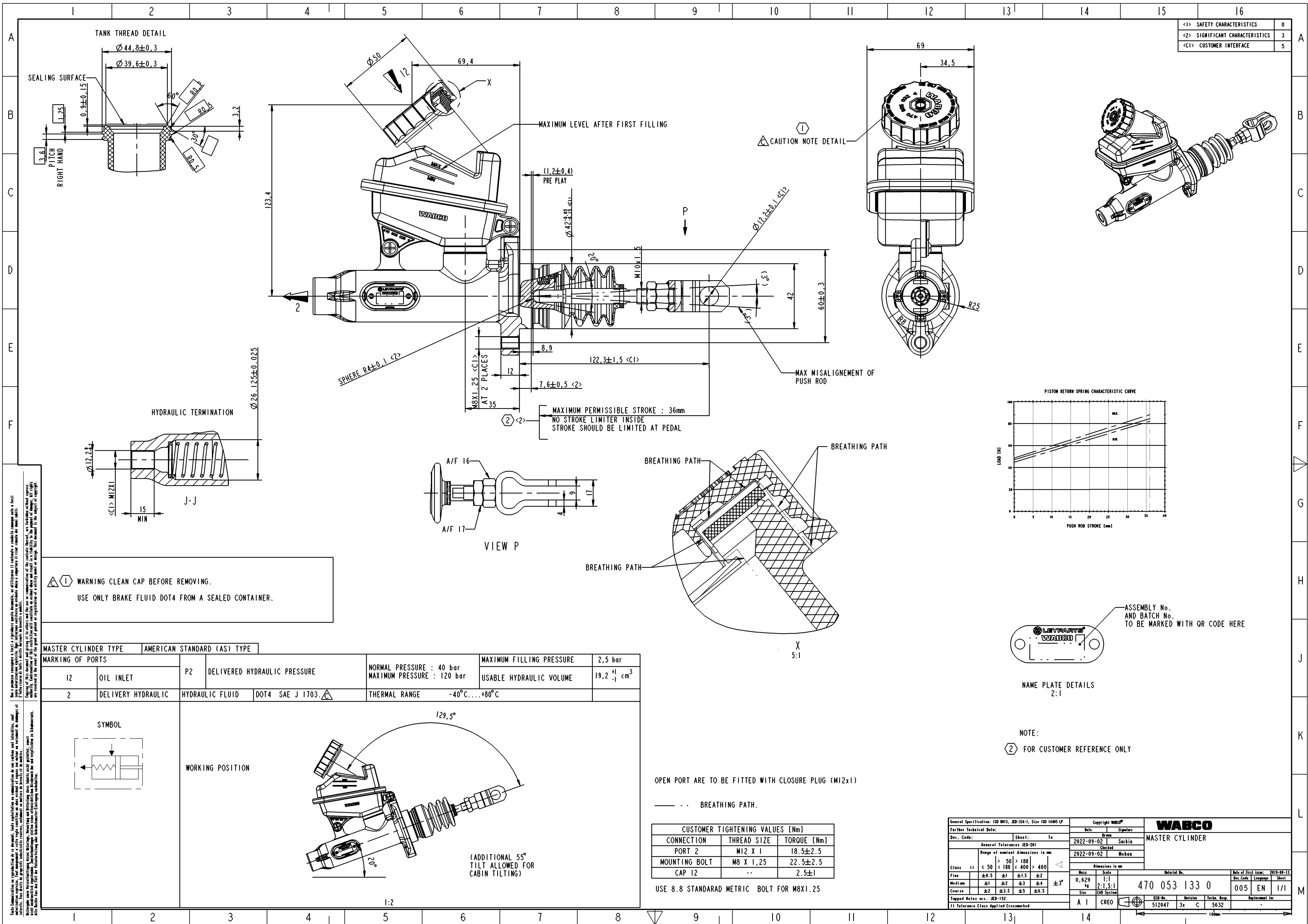
BRANCH TOLERANCES	
UPTO 500	+30/-0
UPTO 2000	+50/-0
UPTO 5000	+60/-0
ABOVE 5000	+75/-0

COLOR CODE	COLOR DESCRIPTION
B	BLACK
BR	BROWN
G	GREEN
GR	GREY
L	BLUE
LG	LIGHT GREEN
O	ORANGE
P	PINK
R	RED
SB	SKY BLUE
V	VIOLET
W	WHITE
Y	YELLOW
N	NATURAL

General Specification: IEC 60761, IEC 60311, Size ISO 14405 LP		Further Technical Data: 447 700 027 2		Doc. Code: 035		Revision: 01 to 08		Date: 2020-01-23		By: Karthik		Checked: Karthik		Approved: Karthik		WABCO		WIRING HARNESS IPU - PISTAIL	
Class II		Range of Nominal Dimensions (L & W)		Min		Max		Min		Max		Min		Max		Min		Max	
Fine		0.5		1.0		1.5		2.0		2.5		3.0		3.5		4.0		4.5	
Medium		1.0		2.0		3.0		4.0		5.0		6.0		7.0		8.0		9.0	
Coarse		2.0		3.5		5.0		6.5		8.0		9.5		11.0		12.5		14.0	
Tapped Holes acc.:		11		Tolerance Class Applied (Crossmarked)		A O		CH-KC		502832		B A		B397-W18		100mm		100mm	

CIRCUIT TABLE									
S.NO	WIRE NO.	WIRE TYPE	CSA	COL.	FROM(A)	TO(B)	CAV. (A)	CAV. (B)	CAV. (C)
1	WIRE1	ISO 6722 CLASS BIFLRY-B)	0.5	R/Y	2 -POLE MALE CONNECTOR	1 SP01	L	STOP LIGHT SWITCH-1.1	I
2	WIRE2	ISO 6722 CLASS BIFLRY-B)	0.5	R/Y	SP01	R	STOP LIGHT SWITCH-2.1	I	
3	WIRE3	ISO 6722 CLASS BIFLRY-B)	0.5	R/Y	SP01	R	STOP LIGHT SWITCH-2.1	I	
4	WIRE4	ISO 6722 CLASS BIFLRY-B)	1	R/W	2 -POLE MALE CONNECTOR	2 SP02	L	STOP LIGHT SWITCH-1.2	I
5	WIRE5	ISO 6722 CLASS BIFLRY-B)	1	R/W	SP02	R	STOP LIGHT SWITCH-1.2	I	
6	WIRE6	ISO 6722 CLASS BIFLRY-B)	1	R/W	SP02	L	STOP LIGHT SWITCH-2.2	I	

General Specification: ISO 60761, IEC 60311, Size ISO 14405 LP		Further Technical Data: 447 700 027 2		Doc. Code: 035		Revision: 01 to 08		Date: 2020-01-23		By: Karthik		Checked: Karthik		Approved: Karthik		WABCO		WIRING HARNESS IPU - PISTAIL	
Class II		Range of Nominal Dimensions (L & W)		Min		Max		Min		Max		Min		Max		Min		Max	
Fine		0.5		1.0		1.5		2.0		2.5		3.0		3.5		4.0		4.5	
Medium		1.0		2.0		3.0		4.0		5.0		6.0		7.0		8.0		9.0	
Coarse		2.0		3.5		5.0		6.5		8.0		9.5		11.0		12.5		14.0	
Tapped Holes acc.:		11		Tolerance Class Applied (Crossmarked)		A O		CH-KC		502832		B A		B397-W18		100mm		100mm	



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