



Tyco Electronics

**76+36 pos,
WATERPROOF
CONNECTORS**

APPLICATION SPECIFICATION

114-18822

MODULAR CONNECTOR 76 - 36 POSITION, WATERPROOF

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5 BLIND PLUGS USAGE INSTRUCTIONS

Benutzung der Blindstopfen

1. GENERAL

Allgemeines

1.1 PURPOSE

Zweck

THIS SPECIFICATION DESCRIBE HOW YOU HAVE HANDLE THE 112 POS. CONNECTOR COMPONENTS.

Diese Spezifikation beschreibt den Arbeitsablauf, sowie die Handhabung aller Komponenten des 112-poligen Steckverbinders.

1.2 CUSTOMER DRAWINGS

Kundenzeichnungen

THIS APPLICATION SPECIFICATION IS BASED ON THE LATEST VALID CUSTOMER DRAWING.

Grundlage dieser Verarbeitungsspezifikation sind die jeweils letzt gültigen Kundenzeichnungen.

C1452931	ASSY 76 POS. CONNECTOR, ($> 1 - 1.50 \text{ mm}^2$)
C1452926	ASSY 58 POS. CONNECTOR, ($> 1 - 1.50 \text{ mm}^2$)
C1452991	ASSY 76 POS. COVER, CABLE EXIT 90°
C1452993	ASSY 36 POS. COVER, CABLE EXIT 90°
C1452408	76 POS. TPA (2-NDARY LOCK), MCP 2.8 MM
C1452997	76 POS. TPA (2-NDARY LOCK), TYCO 1.2 MM
C1452996	36 POS. TPA (2-NDARY LOCK), TYCO 1.2 MM
C1719000	36/76 POS. CABLE ROUTER
C1452424	BLINDPLUG

LATEST VALID APPLICATION SPECIFICATION

Letzter Stand der Verarbeitungsspezifikation

114-18822	APPLICATION SPEC. FOR THE 36 / 76 POS CONNECTOR Verarbeitungsspec. Für die 36 und 76 pos. Stecker
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LATEST VALID INTERFACE SPECIFICATION.

Letzter Stand der Verarbeitungs-spezifikation

114-18764	36 / 76 POS. CONNECTOR 36 /76 Pol. Steckverbinder
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LATEST VALID PRODUCT SPECIFICATION

Letzter Stand der Produktspezifikation

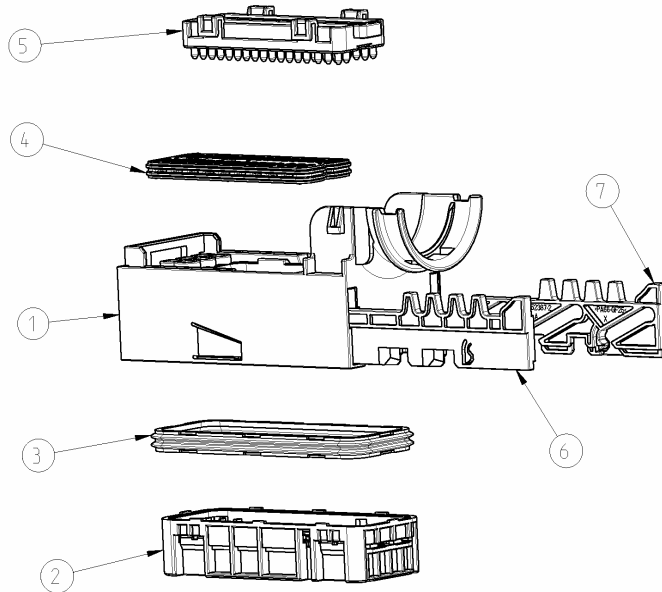
108-94072	PRODUCT SPEC. FOR THE 36 / 76 POS. CONNECTOR Productions Spezifikation für die 36 und 76 pos. Stecker
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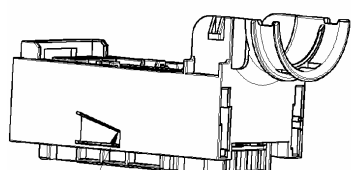

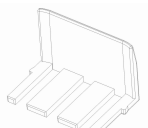
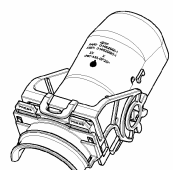
1.3 DELIVERY CONDITION / Anlieferzustand

1.3.1 76 POS. CONNECTOR / 76 Pol. Steckverbinder

THE 76 POS. PLUG-TYPE CONNECTOR IS USED FOR THE CONNECTION OF ENGINE CONTROL UNITS INSIDE THE VEHICLE AND ALSO AT VARIOUS INSTALLATIONS IN THE ENGINE COMPARTMENT. ON THE CABLE SIDE, THE SYSTEM HAS A MODULAR DESIGN, PERMITTING THE CONNECTION OF A SEPARATE ENGINE AND/ OR VEHICLE CABLE HARNESS.

- 1.- HOUSING
- 2.- CAVITY INSERT
- 3.- PERIPHERAL SEAL
- 4.- MAT SEAL
- 5.- COVER FOR FAMILY SEAL
- 6.- SLIDE RIGHT
- 7.- SLIDE LEFT

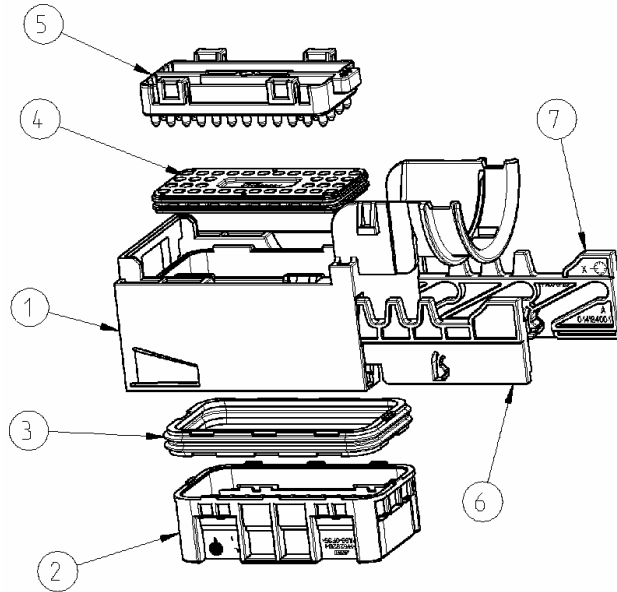


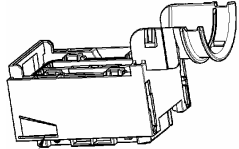

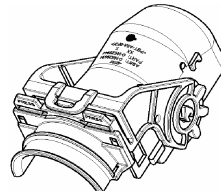
<p>ASSY 76 POS. CONNECTOR</p>	<p>PN 1452931 (black cavity insert)</p> <p>PN 1452995 (grey cavity insert)</p>	
<p>76 POS. TPA FOR TYCO 1.2 mm TERMINAL</p>	<p>PN 0-1452997-1</p>	
<p>76 POS. TPA FOR MCP 2.8 mm TERMINAL</p>	<p>PN 0-1452408-1</p>	
<p>ASSY 76 POS. COVER 90° CABLE EXIT</p>	<p>PN 0-1452990-1</p>	

1.3.2 36 POS. CONNECTOR/ 36 Pol. Steckverbinder

THE 36 POS. PLUG-TYPE CONNECTOR IS USED FOR THE CONNECTION OF ENGINE CONTROL UNITS INSIDE THE VEHICLE AND ALSO AT VARIOUS INSTALLATIONS IN THE ENGINE COMPARTEMENT. ON THE CABLE SIDE, THE SYSTEM HAS A MODULAR DESIGN, PERMITTING THE CONNECTION OF A SEPARATE ENGINE AND/ OR VEHICLE CABLE HARNESS.

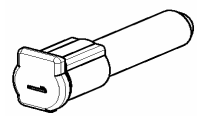
- 1.- HOUSING
- 2.- CAVITY INSERT
- 3.- PERIPHERAL SEAL
- 4.- MAT SEAL
- 5.- COVER FOR FAMILY SEAL
- 6.- SLIDE LEFT
- 7.- SLIDE RIGHT



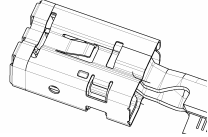
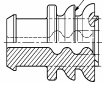
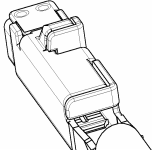
ASSY 36 POS. CONNECTOR	PN 1452926 (black cavity insert)	
36 POS. TPA FOR TYCO 1.2 mm TERMINAL	PN 0-1452996-1	
ASSY 36 POS. COVER CABLE EXIT 90 °	PN 0-1452993-1	

1.3.3 BLINDPLUGS FOR 76 POS. AND 36 POS. CONNECTOR

Blindstopfen für 76 pol. Und 36 pol. Steckverbinder

BLIND PLUG 1,0-1,5 mm ² FOR 36/ 76 POS. CONNECTOR	PN 0-1452424-2 COLOUR : GREEN /Grün (1 - 1,5mm ² FLR) PN 1-1452424-2 COLOUR : BLUE /Blau (1 - 1,5mm ² FLR)	
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1.3.4 TERMINALS FOR 76 POS. AND 36 POS. CONNECTOR Kontakte für 76 pol. und 36 pol. Steckverbinder

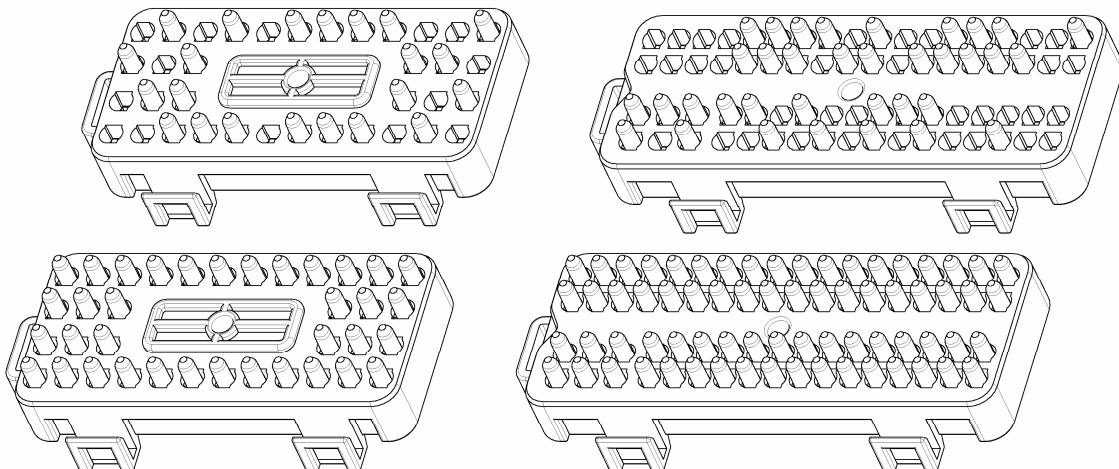
<p>APPLICABLE AMP MCP 2,8 TERM. 0.35-2,5mm² FOR 76 POS.. CONNECTOR</p>	<p>PARTNUMBERS: 1-968882-x 1-968855-x 1-968857-x PROD SPEC 108-18513 APPL SPEC: 114-18148</p>	
<p>APPLICABLE SWS FOR AMP MCP 2,8 TERMINAL</p>	<p>828904-x 828905-x</p>	
<p>AMP MCP 1.2 CB TERMINAL1-1,5mm² FOR 36/76 POS. CON. (NO SWS NEEDED)</p>	<p>PARTNUMBERS: 1452503-x PROD SPEC 108-18782 APPL SPEC: 114-18464</p>	

1.4 WATERPROOFED APPLICATION / Wasserdichte Anwendung

1-PERIPHERAL: THE CONNECTOR IS SEALED BY A PERIPHERAL SEAL.

2- MAT SEAL: THE CABLE EXIT OF THE CONNECTOR IS SEALED BY A MAT SEAL. THE SEALING HOLES IN THE MAT SEAL CAN BE CLOSED (SEALED) BY A CRIMPED WIRE OR BY A PLUG, MOLDED ON THE COVER FOR FAMILY SEAL.

EXAMPLE: COVERS FOR FAMILY SEAL WITH INDIVIDUAL STAMPED PINOUT CONFIGURATIONS. Beispiel: gestanzte Teile.



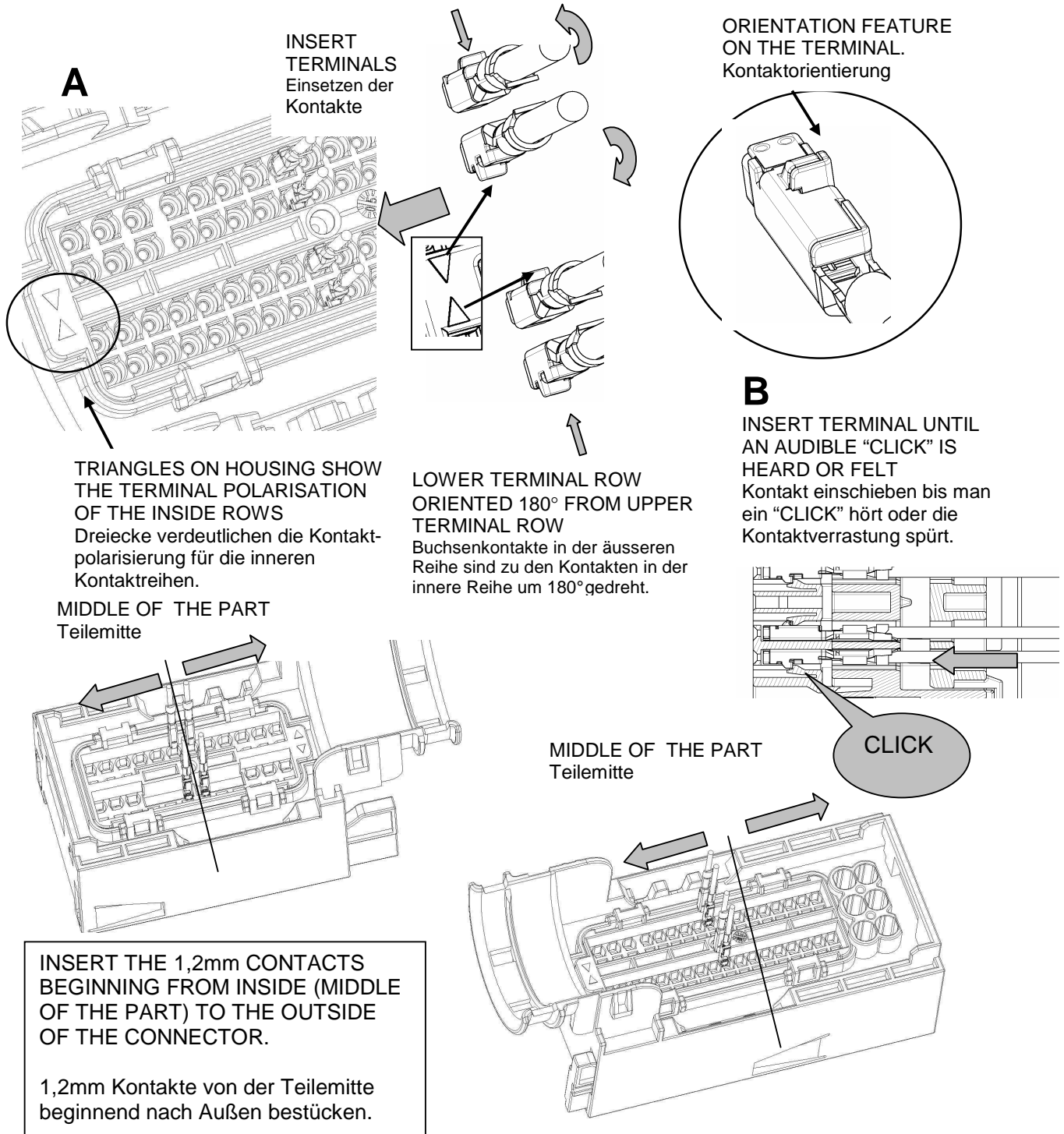
EXAMPLE: UNSTAMPED COVERS FOR FAMILY SEAL
Beispiel: Nicht ausgestanzte Teile

2 112 POS. CONNECTOR ASSEMBLY (76 POS. AND 36 POS.)

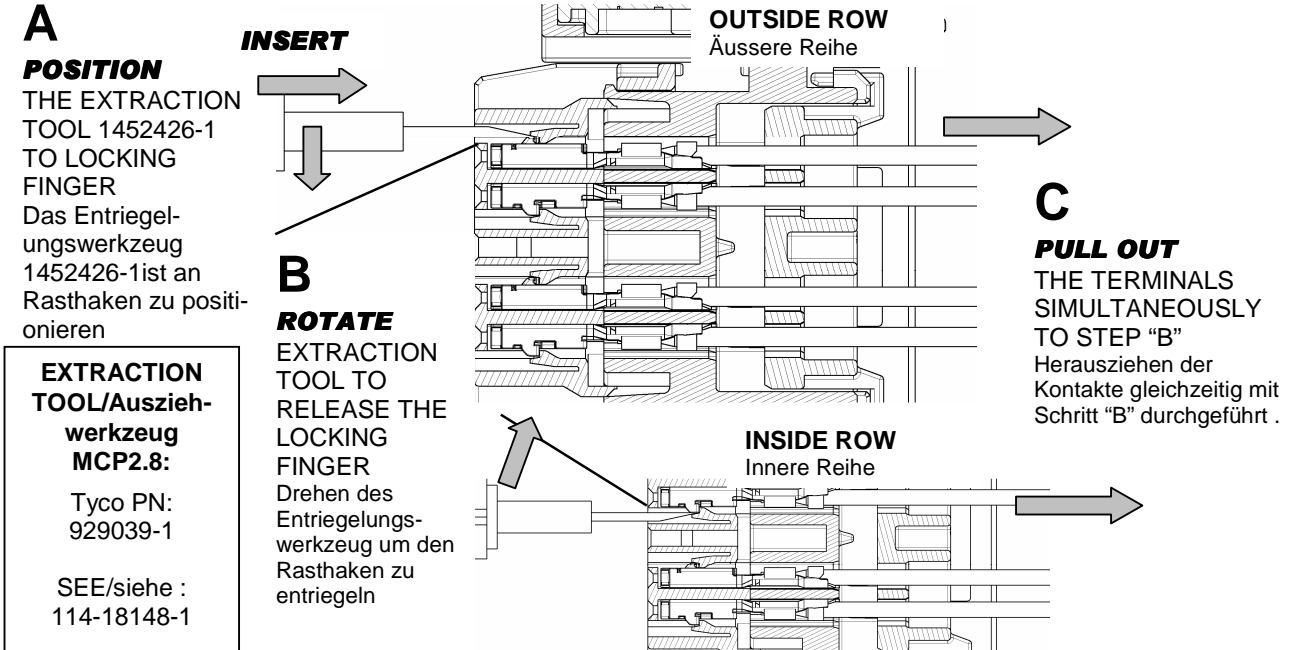
112 Pol. Steckverbinder Zusammenbau (76 Pol. und 36 Pol.)

2.1 TERMINAL INSERTION / REMOVAL INSTRUCTIONS 1.2MM AND 2.8 MM(76 AND 36POS. FEMALE CONNECTOR HOUSING)

Anleitungen für den Kontakt Ein /Ausbau 1.2mm und 2.8mm (76Pol. und 36 Pol. Buchsengehäuse)



1.2 mm TERMINAL REMOVAL INSTRUCTIONS
ANLEITUNGEN FÜR DIE ENTFERNUNG DER 1.2 MM KONTAKTE



2.2 APPLICABLE WIRES (76 POS. AND 36 POS.)
EINSETZBARE LEITUNGEN (76 POL. UND 36 POL.)

PLEASE SEE ALSO THE CUSTOMER DRAWINGS

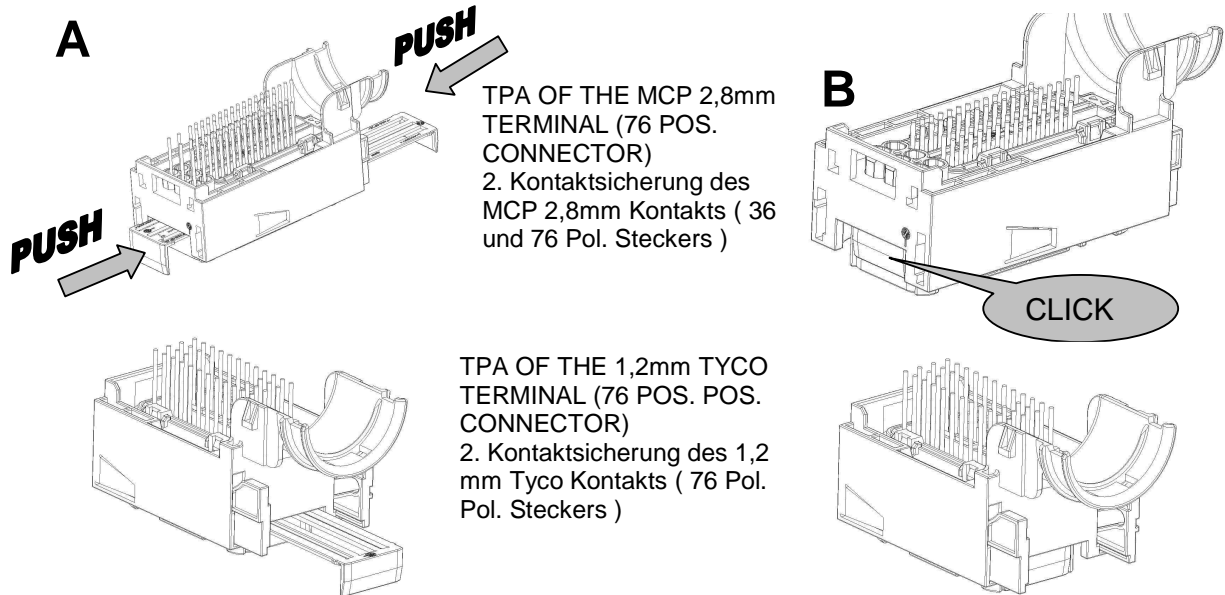
Auch Kundenzeichnungen beachten

CONTACT SYSTEM Kontakt System	WIRE SIZE Leitungsquerschnitt [mm ²]	CABLE INSULATION DIAMETER Kabel Außendurchmesser [mm]
1,2 mm TERMINAL	1,0 mm ²	2,1 _{-0,2} mm
	1,5 mm ²	2,4 _{-0,2} mm
MCP 2,8 mm TERMINAL	0,35 mm ²	1,3 _{-0,2} mm
	0,5 mm ²	1,6 _{-0,2} mm
	0,75 mm ²	1,9 _{-0,2} mm
	1,0 mm ²	2,1 _{-0,2} mm
	1,5 mm ²	2,4 _{-0,2} mm
	2,5 mm ²	3,0 _{-0,3} mm

2.3 TPA (TERMINAL POSITION ASSURANCE) INSERTION / REMOVAL INSTRUCTIONS OF THE 76 POS. AND 36 POS. CONNECTOR

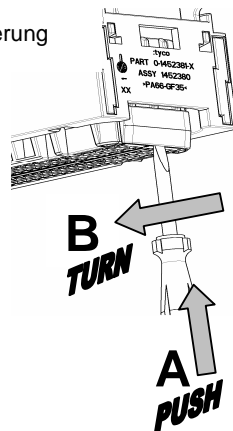
2. Kontaktsicherung Einbau / Ausbau des 76 Pol. und 36 Pol. Steckerverbinders

INSERT THE TPA FOR TERMINAL 1,2mm Tyco AND MCP 2,8mm
Einschieben der 2. Kontaktsicherung für die Kontakte 1,2mm Tyco und MCP 2,8mm



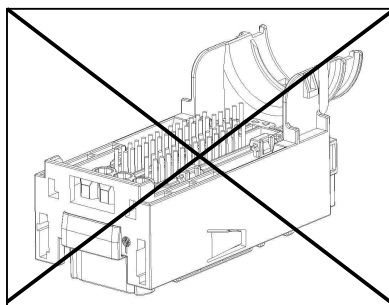
REMOVE THE TPA
Entfernen der 2. Kontaktsicherung

A
INSERT THE EXTRACTION TOOL IN THE MIDDLE OF THE TPA.
Das Werkzeug in der Mitte der 2.Kontakt -sicherung einstecken



C
EXTRACT TPA.
2-te. KOSI entnehmen

B
ROTATE THE EXTRACTION TOOL TO DISENGAGE THE TPA
Schwenken des Entriegelungswerk-zeuges um die 2-Kontaktsicherung zu entriegeln



WRONG TPA POSITION !
(180° deg. turned around.)

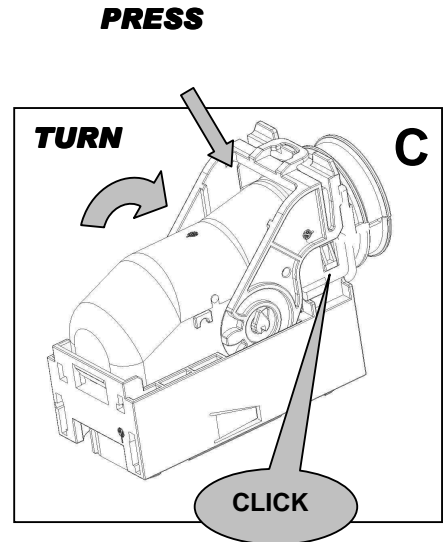
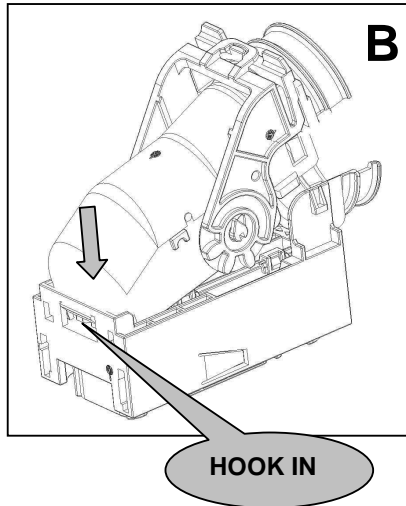
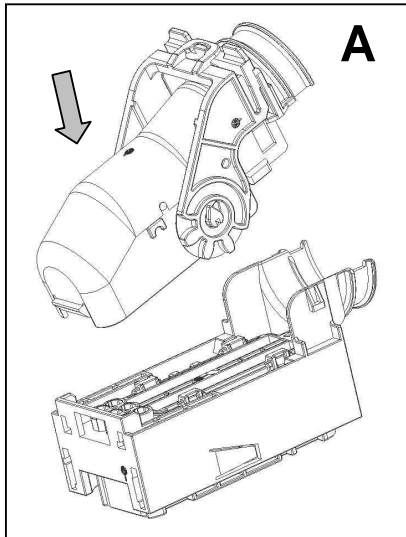
Falscher Einbau!
(180°gedreht eingebaut)

2.4 COVER INSERTION / REMOVAL INSTRUCTIONS FOR 76 POS. AND 36 POS.

Kappen, Montage / Demontage

COVER INSERTION

Montage der Kappen

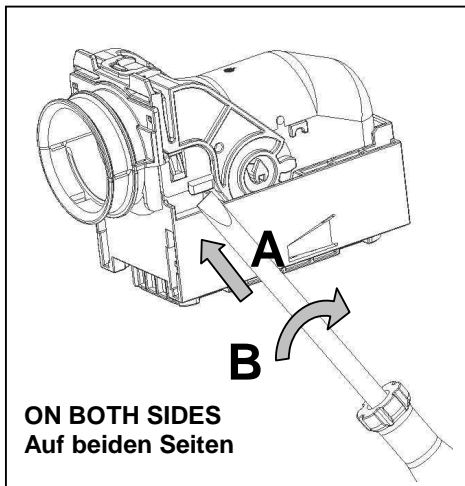


PLEASE ASSURE BEFORE MOUNTING THE COVER, THAT THE SLIDES ARE AT ENDOCKED POSITION. (FULLY INSERTED)

Kappenmontage nur mit Schiebern in Endraststellung möglich.

COVER REMOVAL

Demontage der Kappe

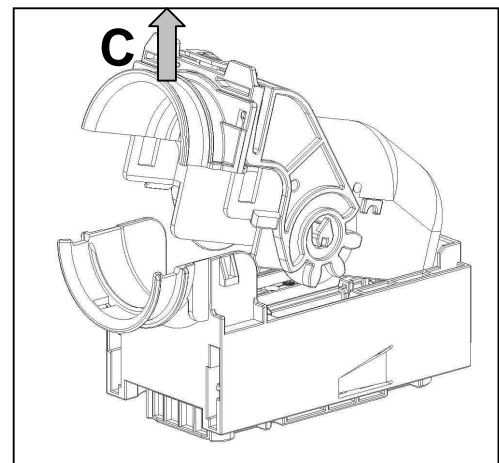


A+B

UNLOCK
OPPOSITE
LATCHES BY
SCREW DRIVER
Mit dem Schraubendreher die gegenüberliegenden Verastungen öffnen.

REMOVE THE COVER

Entfernen der Kappe



PRESS IN SHOWN DIRECTION TO UNLOCK COVER BY SCREW DRIVER
Um Kappe zu öffnen Flügel mit Schraubenzieher

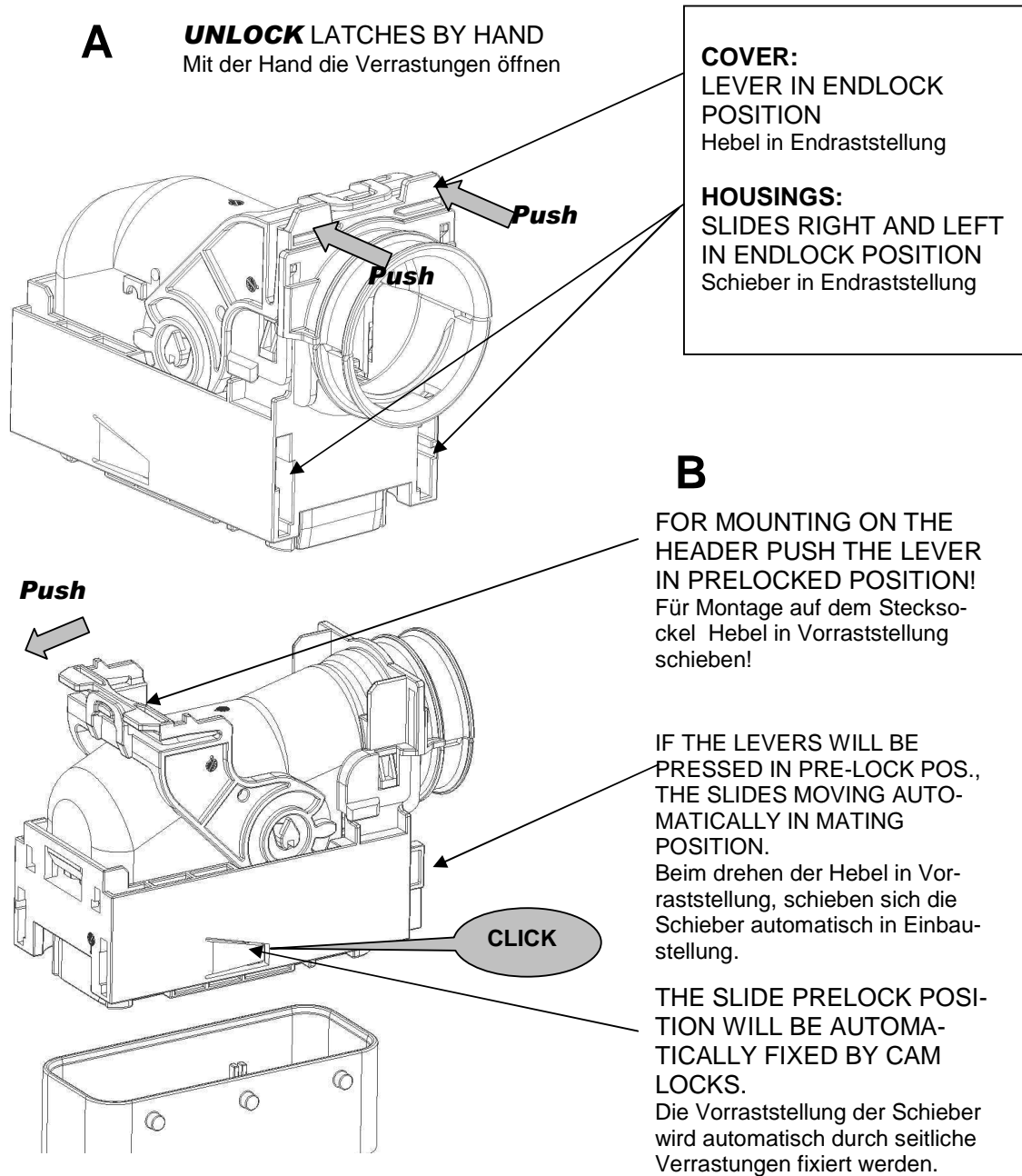
3. MATING AND UNMATING CONNECTOR OF THE 76 POS. AND 36 POS. CONNECTORS Stecken und Lösen der 76 Pol. und 36 poligen Steckverbinder.

3.1. CABLE EXIT 90° 36 POS. AND 76 POS.

Kabelausgang 90° 36 Pol. Und 76 Pol.

3.1.1 BEFORE MOUNTING

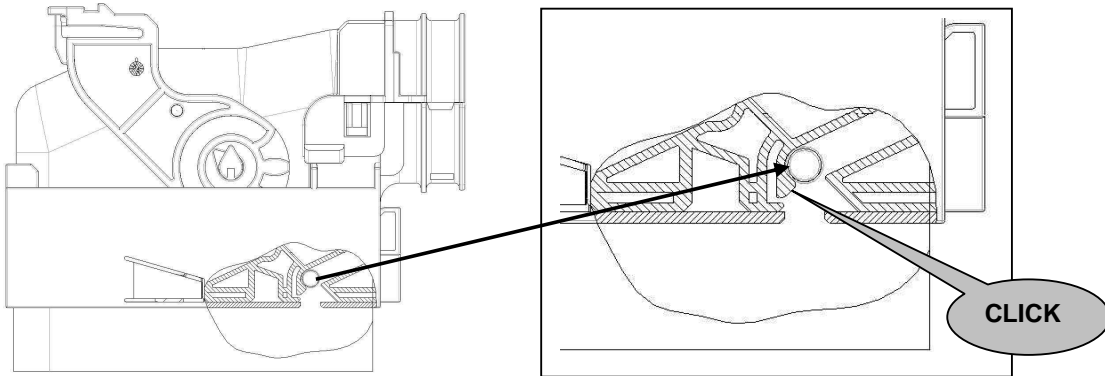
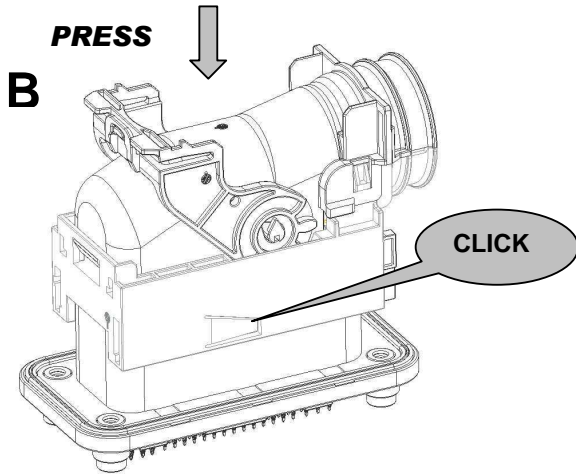
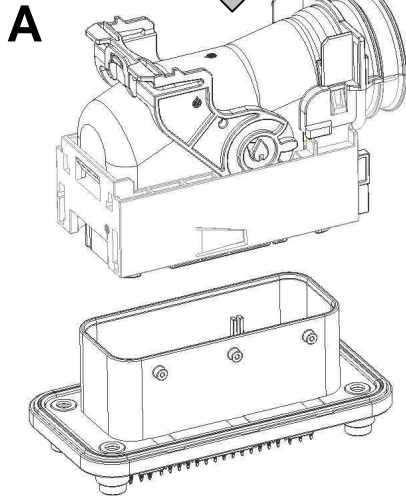
Vorbereitung vor dem Steckprozess



3.1.2 MATING OF THE CONNECTOR WITH THE HEADER IN PRE-LOCKED POSITION/ OVERHEAD-MOUNTING POSITION POSSIBLE

Stecken des Gehäuses mit dem Stecksocket in Vorraststellung / Überkopf möglich

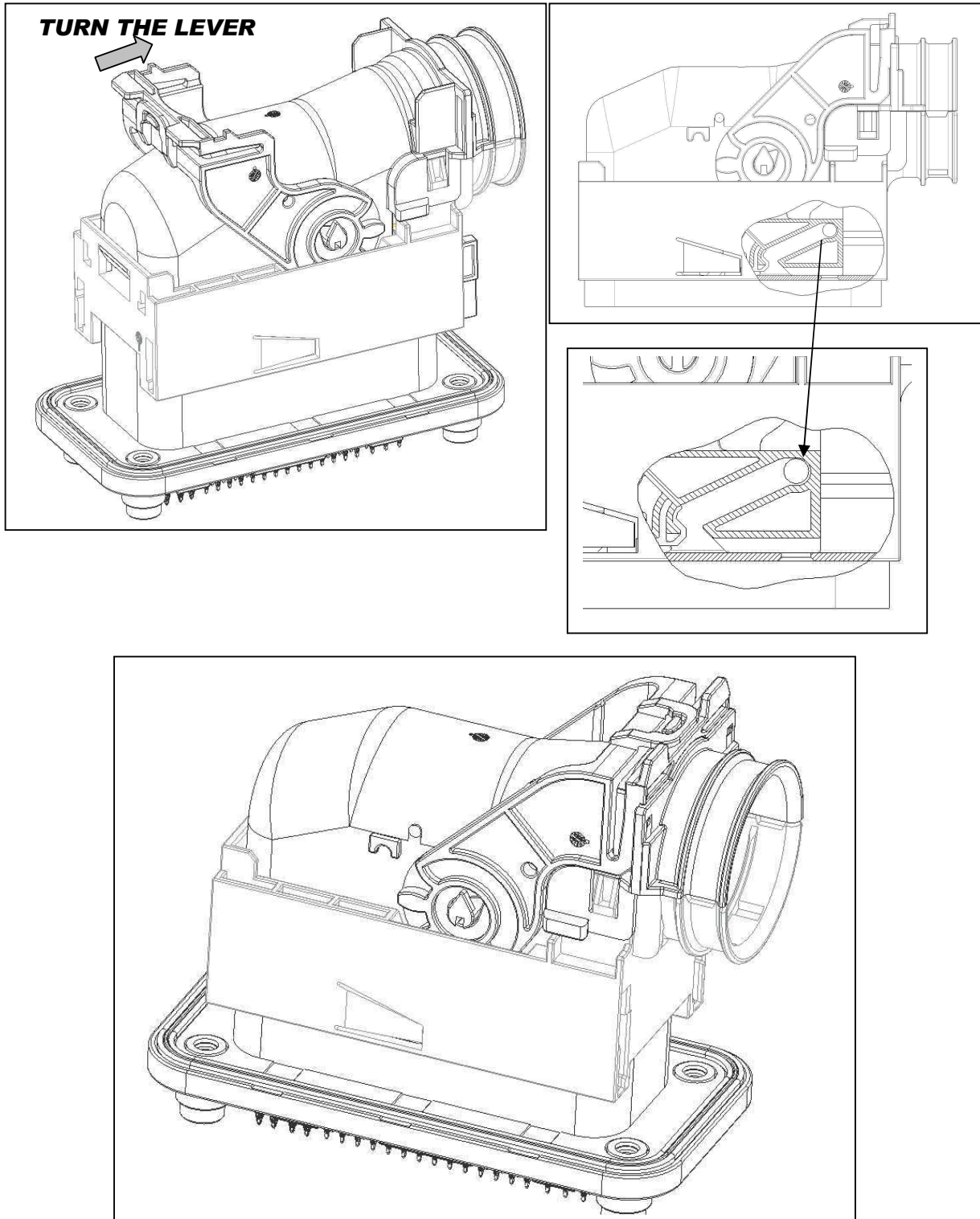
**PRESS STRAIGHT
DOWNWARD**



BY OVERHEAD-MOUNTING THE LOCKING-DEVICES HOLD THE SOCKET HOUSING IN PRELOCKED POSITION.

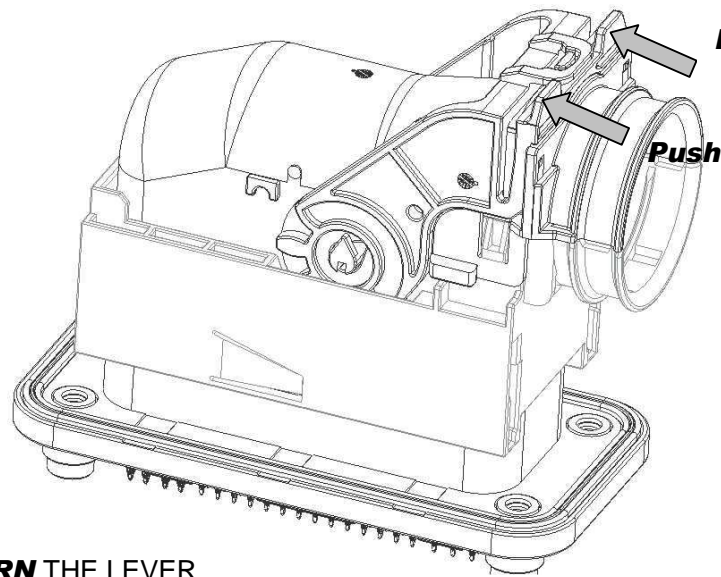
Bei Überkopfeinbau halten die Rasthaken das Buchsengehäuse in Vorraststellung.

3.1.3 MATING OF THE CONNECTOR WITH THE HEADER IN END-LOCKED POSITION
Stecken des Gehäuses mit dem Stecksocket in Endraststellung



3.2 UNMATING OF THE CONNECTOR WITH THE HEADER
Lösen des Gehäuses mit dem Stecksocket

TO UNMOUNT THE HOUSING FOLLOW THE MOUNTING INSTRUCTIONS INVERSELY.
 Gehäuse wird so gelöst wie zusammengebaut.



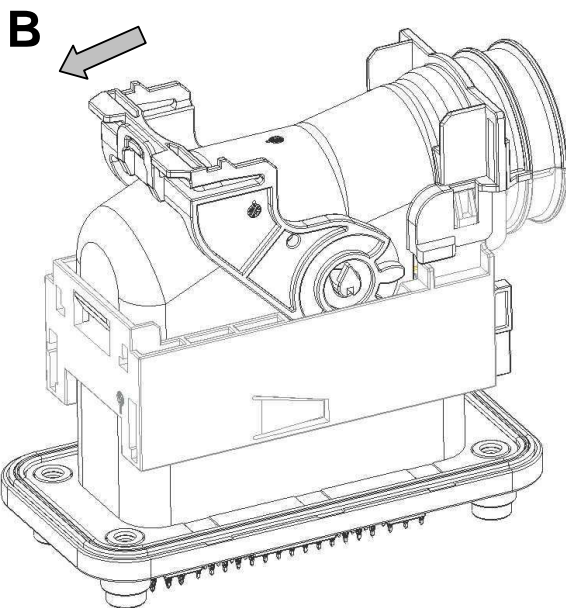
Push

Push

A

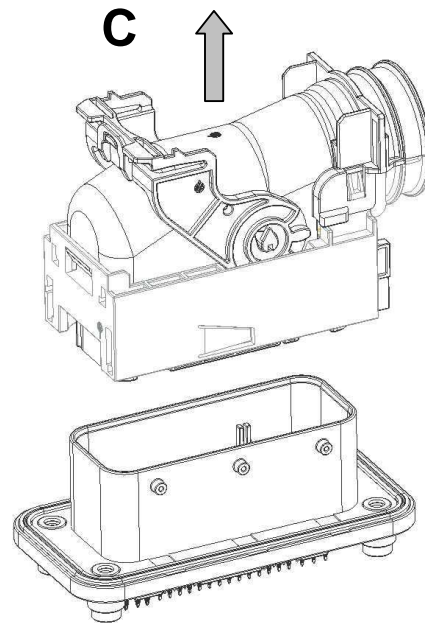
UNLOCK LATCHES
 BY HAND
 Mit der Hand die Verrastungen öffnen

TURN THE LEVER
 IN PRELOCK POS.
 Hebel in Vorraststellung
 schieben.



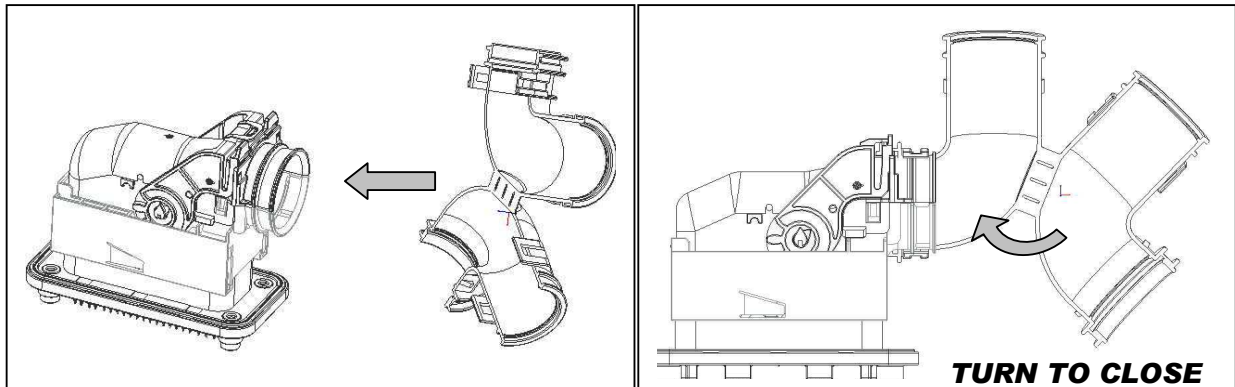
B

REMOVE
 CONNECTOR
 Stecker entfernen.



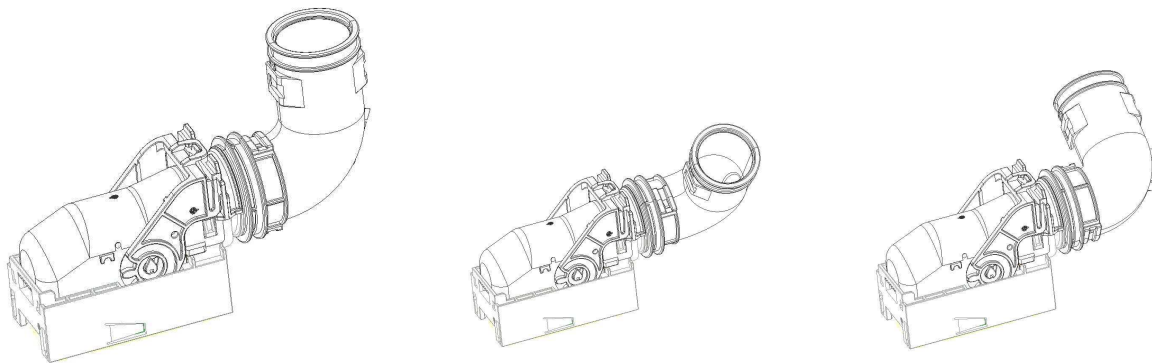
C

4. CABLE TIE / CABLE ROUTER USAGE INSTRUCTIONS Benutzung der Kabelbinder und des Cabel -Routers

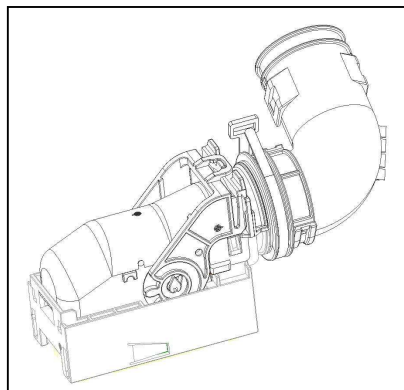


THE MOUNTED CABLE ROUTER CAN BE ROTATED FREE ON PLUG HOUSING

Der montierte Kabel –Router ist auf dem Buchsengehäuse frei drehbar gelagert.



CABLE TIE COULD BE APPLIED ON BOTH ENDS OF THE CABLE ROUTER
Kabelbinder kann an beiden Enden des Cable-Router angebracht werden.



5. BLIND PLUGS USAGE INSTRUCTIONS

Benutzung der Blindstopfen

GREEN / grün

1452424-2 FOR 1 – 1,5mm² CAVITIES / für 1-1,5mm² Kammern

BLUE / blau

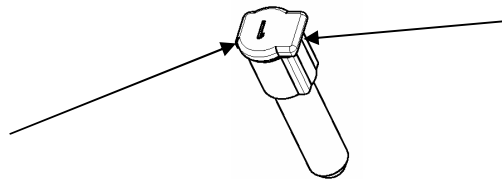
1-1452424-2 FOR 1 – 1,5mm² CAVITIES / für 1-1,5mm² Kammern

insulation dia. : D =1,9-2,4 mm

Isolationsdurchmesser : D =1,9-2,4 mm

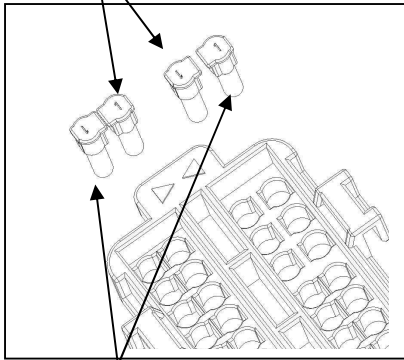
**0-1452424-2 will be superseded by 1-1452424-2.
Both parts can be used as blind plugs.**

CAVITY MARKING
Kammerbezeichnung



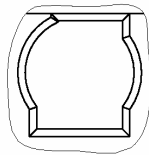
POLARISATION
FEATURE ON THE
BLIND PLUGS.
Polarisierung an
den Blindstopfen

INSIDE ROW / innere Reihe



PLEASE REMIND THE
ORIENTATION OF THE
BLIND PLUGS!
Orientierung der Blind-
stopfen beachten!

OUTSIDE ROWS / äußere Reihen



POLARISATION AS SHOWN
FOR
OUTSIDE AND INSIDE ROWS.
Polarisierungen gezeigt an den
äußeren und inneren Reihen.

