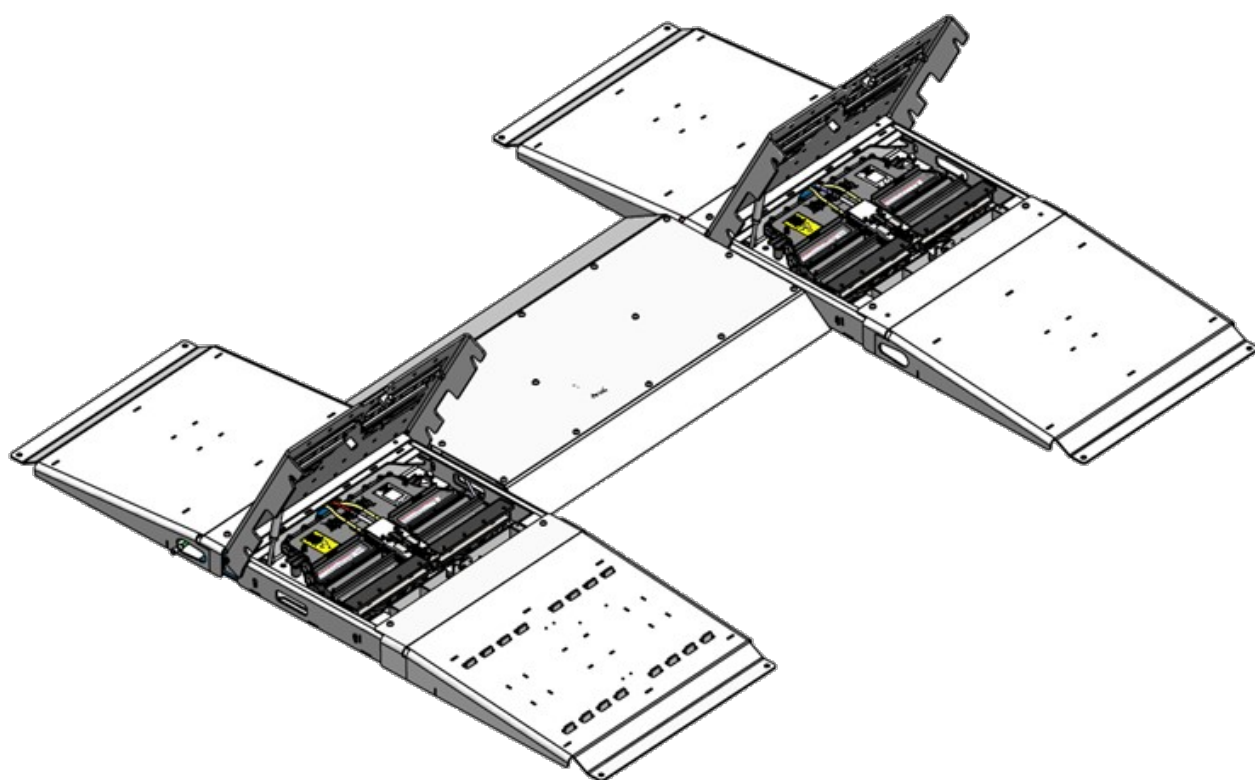




DriveOver Surface Ramp EMEA

Installation Manual

TEETD915AEA1 en-GB Rev 3

Table of Contents

1. About This Document	3
1.1. Revision History	3
1.2. Abbreviations	4
2. Safety	5
2.1. Warning Types	5
2.2. Safety Precautions	6
2.2.1. Laser Warnings	6
2.2.2. Electrical Warnings	7
2.2.3. Mechanical Warnings	8
2.3. Placement of Safety Signs	9
2.3.1. Sensor Safety Signs	9
2.3.2. Trigger Box Label	10
2.3.3. Electrical Cabinet Safety Signs	11
3. Machine Overview	13
3.1. Mechanical Specification	14
3.2. Electrical Specification	15
3.3. Parts List	16
3.3.1. Optional Components	16
3.3.2. Metalwork Components	17
3.3.3. Metalwork Fixings Components	18
3.3.4. Electrical Components	19
3.3.5. Pneumatic Components	20
4. Handling the Equipment	21
4.1. Transportation and Storage	21
4.2. Recycling	21
5. Installation	23
5.1. Site Requirements	23
5.1.1. Floor and Anchor Requirements	23
5.1.2. Power Requirements	23
5.1.3. Compressed Air Requirements	24
5.1.4. Environmental Considerations	24
5.2. Prepare the Placement	25
5.2.1. Cable overview	28
5.2.2. Electrical Cabinet Location	29
5.2.3. ALPR Camera Location	30
5.3. Installing the Surface Ramp EMEA	34
5.4. Mounting of the Electrical Cabinet	53

5.5. Finalize the Installation	57
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FAMILY NAME	MODELS	DESCRIPTION OF THE MACHINE
TreadReader	EETD915AEA, EETD918AEA	Ramp
TreadReader	EETD916AE(A/B), EETD919AEA	Flush

EC DECLARATION (Original document contained in Spare Parts Booklet)
DECLARATION CE (Le document original figurant dans le Liste des pièces détachées)
CE KONFORMITÄTSEKRLÄRUNG (Originaldokument in der Ersatzteilliste enthaltenen)
ДЕКЛАРАЦИЯ ЕС (Оригинал документа прилагается к ведомости запчастей)
DICHIARAZIONE CE (Originale contenuta nel Libretto Ricambi)
DECLARACIÓN CE (El original se encuentra en tabla de repuestos)
DECLARAÇÃO CE (O original está contida em Lista de peças)

- FACSIMILE - ФАКСИМИЛЕ -

ENG - DECLARATION OF CE CONFORMITY
FRA - DECLARATION CE DE CONFORMITE
DEU - KONFORMITÄTSEKRLÄRUNG
ITA - DICHIARAZIONE CE DI CONFORMITA'
FIN - EYVÄÄNASTUMUKAISUUSVAKUUTUS
NLD - VERKLARING VAN OVERENSTEMMING
SWE - EGFÖRKLÄRAN OM ÖVERENSSTÄMMELSE
DAN - EF-ÖVERENSSTEMMELSESEKRLÆRING
ISL - EF-SAMRÆMISFIRING
POL - DEKLARACJA ZGODNOŚCI CE
RUM - DECLARATE DE CONFORMITATE CU NORMELE CE
SLO - ES VYHLASENIE O ZHOD
LAV - IZJAVA O SKLADNOSTI CE
ALB - DEKLARATE KONFORMITETI KE
HUN - EK MEGFELELŐSÉGI NYILATKOZAT

DICHIARAZIONE CE DI CONFORMITA' - ITA
DECLARACIÓN CE DE CONFORMIDADE - POR
DECLARATION CE DE CONFORMIDAD - SPA
DEKLARACIJA ZA CUSTOBTETSTVIE - BUL
ES PROKLASNI O ZHODU - CES
DEKLARACIJA CE O PODOBNOSTI - HRV
EU VASTAVUSEDEKLARATSIOON - EST
MADESH CE TYMOPPOBICE - ELL
ES ATBILSTBAS DEKLARACIJA - LAV
ATTIKTITES DEKLARACIJA - LIT
DECLARACIJA ZA COODPARNOST - MKD
DECLARACIJA CE O USKLADNOSTI - MON
EC UYUMLUK BEYANNAMESI - TUR
DECLARACIJA SOOTBETSTVIA STANDARTAM EC - RUS

2014/30/EU 2006/42/EC
2011/65/EU 2014/53/EU*

ENG - takes full responsibility for declaring that the machine:
FRA - déclare sous sa propre responsabilité que la machine:
DEU - erklärt auf eigene Verantwortung, dass die Maschine:
ITA - dichiara sotto la propria responsabilità che la macchina:
FIN - vastaa oman vastuunsa, että kone:
NLD - verklaart onder eigen verantwoordelijkheid dat de machine:
SWE - förklarar under eget ansvar att maskinen:
DAN - erklærer på eget ansvar, at maskinen:
ISL - kinnbúið umal vastuulsi, að vélin:
POL - wzywa się o własną odpowiedzialność, że maszyna:
RUM - declară pe propria răspundere că mașina:
SLO - vzhlašuje na vlastno odgovornost, da je stroj:
LAV - apņemasies savai atbildību apliecinā, ka mašīna/iekārta:
LT - prisiima atsakomybę už mašiną, kad mašina:
MKD - izjavja se pod svoja odgovornost, da je mašina:
ALB - përdorim përgjegjësi të vetës për të deklaruar se makina:
HUN - vállalja a szerző felelősségét, hogy a gép megfelel az előírt követelményeknek.

TYRE TREAD READER
SCANNER DE BANDE DE ROULEMENT DE PNEU
REIFENPROFILSCANNER
SCANNER DEL BATTISTRADA DEL PNEUMATICO
SCANER DE BANDA DE RODADURA DEL PNEU
SCANER I KAPKET SE GOMANE
ČEKER ZA PROTEKTOR NA TMI
SKENER BEHÓUNU PNEUMATIK
SKENER PROFILA GUME
DEKMONSTERSCANNER
REIFPROFILSKANNER
REINKAAN KULTUURPINNAN SKANNER
ZAPOTK / TEAMATOS, EKVATKON
CEKASKANNA
RIEPI PROTEKTORA SKENERS
RADANGULITEKTORALUS-SKATYLIUS
CEKNER HA JAPITE HA TUMATA
SKENER GAZECES SUJA GOMA
BANDENPROFIELSCANNER
SKANER BEZNIKA OPON
RULARE A ANVELORELOR
SKENER DEZENJI PNEUMATIK
SKENER TIRAKLE PLASTI PNEUMATIK
DÄCKULINIESKANNER
LASTIK 121 TIRAKTISI

Snap-on

TreadReader DriveOver
Ramp: EETD915AEA, EETD918AEA
Flush: EETD916AE(A/B), EETD919AEA

ENG - complies with the following ("I" is applicable)
FRA - est conforme aux/au ("I" is cas échéant)
DEU - entspricht folgenden Vorschriften ("I" falls zutreffend)
ITA - è conforme alle/ai seguenti ("I" se applicabili)
FIN - täyttää seuraavien määräysten ("I" jos sovelletaan)
NLD - is conform aan de volgende ("I" als van toepassing)
SWE - överensstämmer med nedanstående ("I" tillämpliga fall)
DAN - overensstemmer med nedenstående ("I" tilsmålelige fald)
ISL - samræmst eftirfarandi reglugerðum ("I" tilgjafan)
POL - jest zgodny z następującymi przepisami ("I" jeżeli mają zastosowanie)
RUM - este conform cu următoarele dispoziții ("I" dacă se aplică)
SLO - je skladna z naslednjimi ("I" če veljavni)
LAV - atbilst šādām prasībām ("I" ja piemērojamas)
LT - atitinka šias taisykles ("I" jei taikomos)
MKD - MON-u skladno sa sledećim ("ako se primenjuje")
ALB - është i pajtueshëm me rregullat e mëposhtme ("nëse janë zbatueshme")
HUN - megfelel az alábbi irányelveknek, (ha alkalmazható)

ENG - The manufacturer - FRA - Le fabricant - DEU - Der Hersteller - ITA - Il fabbricante - POR - O fabricante - SPA - El fabricante
ALB - Produktori - BUL - Производител - CES - Výrobce - HRV - proizvođač - DAN - Fabrikant - EST - Tootja - MKD - Proizvođač
FIN - Valmistaja - ELL - Ο κατασκευαστής - ELL - Fabrikant - LAV - Raattaja - LIT - Gamintojas - MD - Proizvođač
MON - Proizvođač - NLD - De fabrikant - POL - Producent - RUM - Producător - SLO - Vinar - SVK - Vyrábiteľ
SWE - Tillverkaren - TUR - Üretici - HUN - gyártó - RUS - Производитель

2014/30/EU 2006/42/EC
2011/65/EU 2014/53/EU*

ENG - is authorised to compile a technical leaflet in compliance with appendix VII, letter A, of the 2006/42/CE directive.
FRA - est autorisé à constituer le fascicule technique en ve à respecter l'annexe VII, lettre A, de la directive 2006/42/CE.
DEU - ist befugt, die technischen Unterlagen zu erstellen (siehe Anhang VII, Buchstabe A der Richtlinie 2006/42/CE).
ITA - è autorizzato a compilare il fascicolo tecnico di cui all'allegato VII, lettera A della direttiva 2006/42/CE.
FIN - on valtuutettu laatimaan teknillinen asiakirja, joka täyttää VII liitteen A:n vaatimukset.
NLD - is geautoriseerd te realiseren technische teksten op grond van bijlage VII, letter A van de richtlijn 2006/42/EG.
SWE - är behörig att sammanställa tekniska dokumentation enligt med bilaga VII till direktiv 2006/42/EG.
DAN - er bemyndiget til udarbejdelse af den tekniske dokumentation ifølge bilag VII til A i direktivet 2006/42/EF.
ISL - er heimilað að samanstafa teknískan skýrslu samkvæmt VII lið A í skýrslu 2006/42/EG.
POL - jest upoważniony do sporządzenia dokumentacji technicznej zgodnie z załącznikiem VII, litera A, dyrektywy 2006/42/WE.
RUM - este autorizat să compileze un manual tehnic în conformitate cu anexa VII la Directiva 2006/42/CE.
SLO - je pooblaščen za sestavljanje tehnične dokumentacije skladno s prilogi VII, črta A, direktive 2006/42/ES.
LAV - ir pilnvarots sastādīt tehnisko dokumentāciju atbilstoši ES direktīvas 2006/42/EK VII pielikuma A prasībām.
LT - turi teisę parengti techninį lapelį, kuris atitiktų techninio lapelio reikalavimus išdėstyti VII priedo A reikiams.
MKD - e ovlašćen da izradi tehnički list u skladu sa prilogom VII, slovo A, direktive 2006/42/CE.
ALB - është i autorizuar që të krijojë dokumentim teknik në përputhje me aneksin VII të direktivës 2006/42/CE.
HUN - jogosult a összeállítani a technikai listát az előírt VII. melléklet A. pontjának megfelelően.

ITA - Direttore Operativo SPA-Director Operativo POR-Director Operacional ENG-Operations Manager FRA-Directeur Operationnel
DEU-Betriebsleiter ALB-Drejtor Operativ BUL-Оперативен директор CES-Výkonný ředitel HRV-Operativni direktor DAN-Driftleder
EST-Tegutsejaja FIN-Tuotoiminnan johtaja ELL-Επιχειρησιακό Διευθυντή SLO-Standford transkvalifikacije LAV-Operatīvas direktors
LIT-Operacijoje vadovas MKD-Operativni direktor MON-Operativni direktor NLD-Operationeel directeur POL-Dyrektor Operacyjny
RUM-Director Operativ SLO-Výkonný riaditeľ SVK-Operatívny riadca SWE-Driftledare TUR-İşletme Müdürü HUN-Operatív Igazgató
RUS - Управляющий производством

Correggio (RE) - ITALY

date:

All Information in this manual has been supplied by the producer of the equipment:
 Toutes les informations figurant dans le présent manuel ont été fournies par le fabricant de l'équipement :
 Alle in diesem Handbuch enthaltenen Informationen wurden durch den Hersteller der Maschinen geliefert:
 Вся информация, содержащаяся в данном руководстве, предоставлена производителем оборудования
 Tutte le informazioni contenute nel presente manuale sono fornite dal produttore dell'apparecchiatura:
 Todas las informaciones contenidas en este manual han sido facilitadas por el productor del equipo:
 Todas as informações contidas neste manual foram fornecidas pelo produtor da máquina:

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1. About This Document

This manual shows the installation steps of the TREADREADER™ DriveOver Surface Ramp EMEA EETD915AEA.

- Document name: **DriveOver Surface Ramp EMEA Installation Manual**
- Document number: **TEETD915AEA1**



To commission this equipment, read the Operation Manual.



1.1. Revision History

Document No	Revision	Description	Date
TEETD915AEA1	Rev 1.5	First draft version - new ISO template	2023-06
TEETD915AEA1	Rev 2	First release version	2025-05
TEETD915AEA1	Rev 3	Minor updates	2025-09-29

1.2. Abbreviations

In this manual the following abbreviations may occur.

ALPR	Automatic License Plate Recognition. A camera for reading license plates.
DO	DriveOver
EMEA	Europe, the Middle East and Africa
EULA	End User License Agreement
HD	Head
ID	Inner Diameter
IM	Installation Manual
IP67	An international dust and water protection code for electrical enclosures.
NA	North America
OD	Outer Diameter
OM	Operation Manual
POE	Power Over Ethernet
PT	Prevailing Torque
QTY	Quantity
SKT	Socket
SP	Spare Parts
TD	Tread Depth
TR	TreadReader

2. Safety

For your safety, read this manual thoroughly before installing, using or servicing this equipment.

The TreadReader DriveOver is intended for use by the public and/or automotive technicians. The safety precautions presented in this section and throughout the manual are reminders to exercise extreme care when working with this product.

It is assumed that, prior to using the TreadReader DriveOver, the installer has followed the installation instructions and has a thorough understanding of the system when serviced. In addition, it is assumed the installer has a thorough knowledge of the operation and safety features of the system and has the proper hand and power tools necessary to perform the installation.

2.1. Warning Types

The warnings are collected in three groups depending on its severity:

	DANGER means if the danger is not avoided, it will cause death or serious injury.
	WARNING means if the warning is not heeded, it can cause death or serious injury.
	CAUTION means if the precaution is not taken, it may cause minor or moderate injury.

2.2. Safety Precautions

When using your garage equipment, basic safety precautions should always be followed, including:

- Do not operate power tools or equipment with a damaged power cord or if the equipment has been dropped or damaged until it has been examined by a qualified person.
- Adequate ventilation should be provided when working on operating internal combustion engines.
- Keep hair, loose clothing, fingers, and all parts of body away from moving parts when/if applicable.
- Use only as described in this manual. Use only manufacturer's recommended attachments.
- Know and understand the proper operating procedures for all power tools used.

2.2.1. Laser Warnings

	WARNING
	Risk of eye injury or blindness
	Class 3R visible-light lasers are considered safe for unintentional eye exposure, because a person will normally turn away or blink to avoid the bright light. Do not deliberately look into or stare into the beam. This can cause injury to the retina in the back of the eye. Avoid direct eye exposure to direct and scattered radiation. Everyday eyeglasses are NOT safety glasses.
	Do not look directly into the laser beam. Make sure that no person is in the path of the laser beam during activation. Wear Safety Glasses.

This product contains Class 3R Laser product.

Description	Class 3R Laser product
Maximum output	5 mW
Pulse duration	CW
Wavelength	660/685 nm

2. Safety

2.2.2. Electrical Warnings

To reduce the risk of fire, do not operate equipment in the vicinity of open containers of flammable liquids, such as gasoline.

The socket-outlet (wall outlet) shall be located near the Electrical Cabinet and be easily accessible.



Make sure no cables get trapped or pinch by the metalwork during routing and installation.



DANGER

Risk of electric shock

Contact with high voltages can cause death or serious injury. All electrical connections must be carried out by a qualified electrician.

Make sure to plug in the unit into the correct power supply.

If an extension cord is necessary, a cord with a current rating equal to or greater than that of the equipment should be used. Cords rated for less current than the equipment can overheat.

Never use the cord to pull the plug from the outlet. Always grasp the plug and pull to disconnect.

Never remove or bypass the grounding pin.

Do not operate equipment with a damaged power cord or if the equipment has been dropped or damaged, until it has been examined by a qualified service person. Unplug the equipment from the wall outlet before maintenance.



DANGER

Risk of electric shock

Installation in areas of standing water or flooding is prohibited. Never expose the equipment to rain.

Hosing down of the ramps is allowed. Do not pressure wash under any circumstances.

2.2.3. Mechanical Warnings

	DANGER Risk of permanent injury or death Misuse of compressed air is highly dangerous and may cause permanent injury or death. Appropriate PPE (Personal Protective Equipment) like safety glasses, gloves and hearing protection must be worn when connecting and servicing the compressed air supply. Make sure compressed air is turned off and no air left in the system before starting any work. Wear Safety Glasses, Gloves and Hearing Protection.
	WARNING Risk of crush or pinch injuries When the shutter sensor is closing or opening the Camera Lid, there is a risk of pinch or crush injuries. Do not put fingers or other body parts inside the Camera Lid opening when the compressed air is enabled. Make sure compressed air is turned off and no air left in the system before starting any work. Wear Safety Gloves.
	WARNING Risk of lifting injuries Muscle strain or back injury from lifting heavy or improperly. For items of DriveOver Surface Ramp EMEA EETD915AEA that has a weight: Above 25 Kg, but less than 50 Kg (55/110 lbs) two or more persons may be required to lift or move the item. Above 50 Kg (110 lbs) lifting equipment is required. Bend your legs, keep your back as straight as possible, keep the load close to your body, grip the box or load at opposite corners.
	WARNING Risk of tripping Tripping over loose objects can cause fall injuries. If an extension cord is necessary, care should be taken to arrange the cord so that it will not be tripped over or pulled. All cables and air hoses on the floor should be secured and covered. Use the Floor Line Cover.
	WARNING Risk of crush or pinch injuries When closing the Mid-Section lid, there is a risk of crush or pinch injuries. There is a gas strut installed to keep the lid up. A mechanical stop prevents the lid to close fully. Close the lid by pushing it downwards while pulling its latch. Wear Safety Gloves.

2. Safety

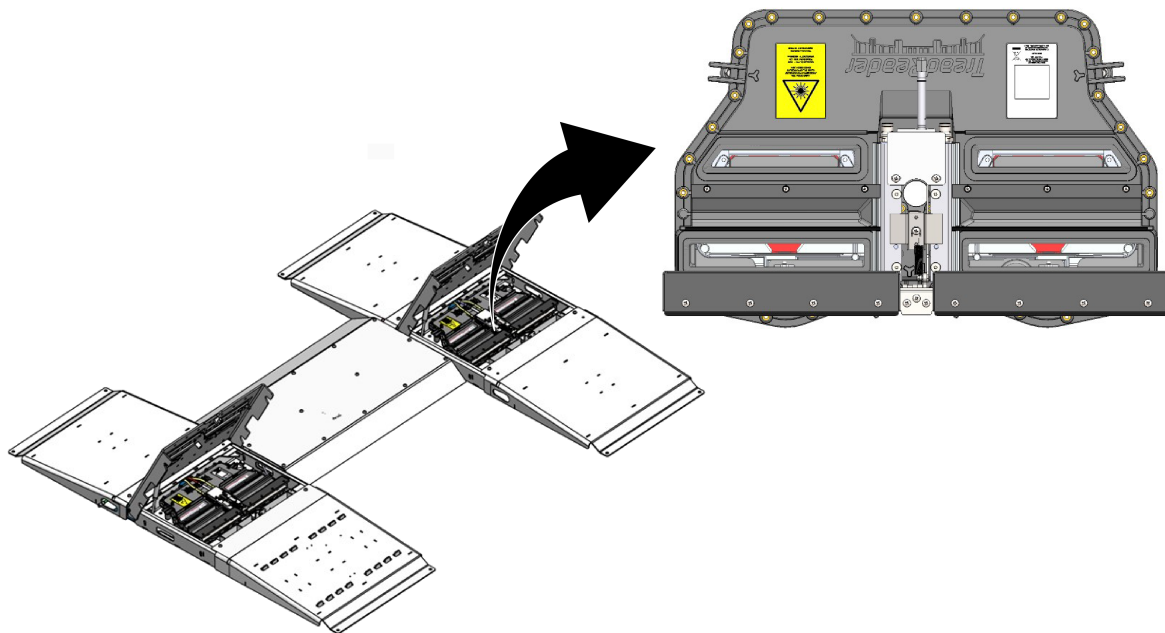
2.3. Placement of Safety Signs

2.3.1. Sensor Safety Signs

The following labels are found on the sensors mounted inside the TreadReader DriveOver Surface Ramp EMEA.

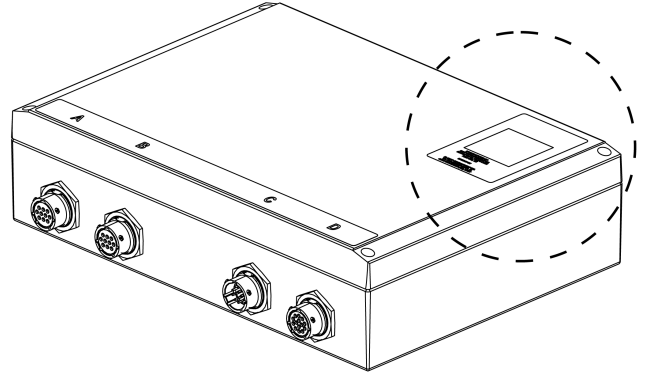
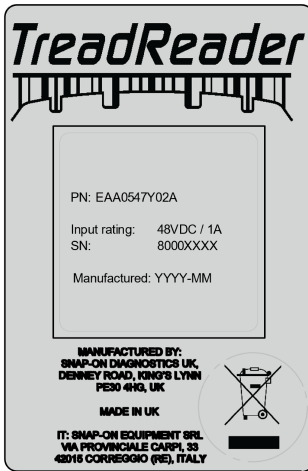


LASER APERTURE



2.3.2. Trigger Box Label

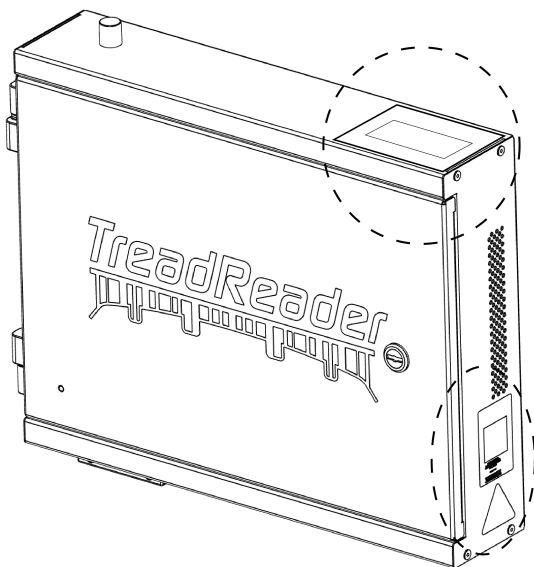
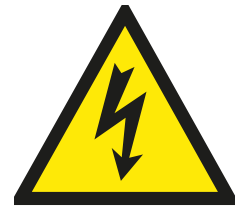
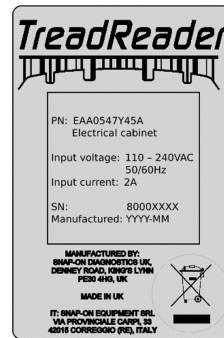
The following label is found on the Trigger Box.



2. Safety

2.3.3. Electrical Cabinet Safety Signs

The following labels are found on the Electrical Cabinet.



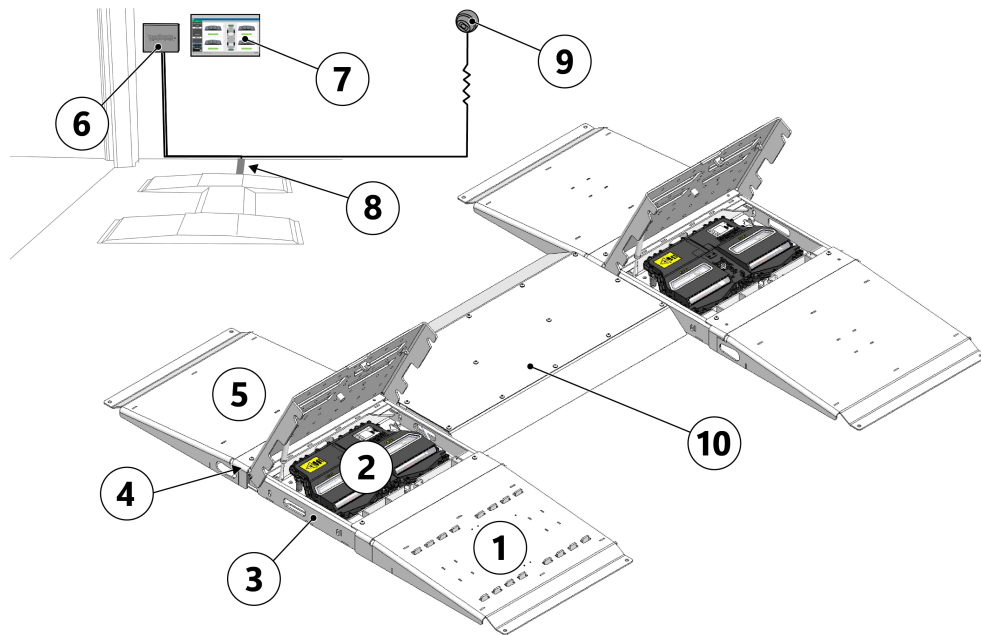
3. Machine Overview

Tread depth measurement occurs as the vehicle drives over the ramp. The rows of triggers sense the vehicle's direction and speed, and activate the tyre scan.

For the system to achieve a tyre scan, the vehicle must be driven over the ramp at speeds between 2.5 and 9 mph (4 and 15 km/h). Drive too fast or too slow, and the system may fail to measure accurate data.

The captured data is transferred to the TREADREADER computer software, which analyses it, calculates tread depth, displays 3D images and operator recommendations

Tyre scans can be uploaded to the TREADMANAGER™ web service for storage and later analysis. During the initial setup, the thresholds are set in TreadReader, but updates to the settings are done from TreadManager.

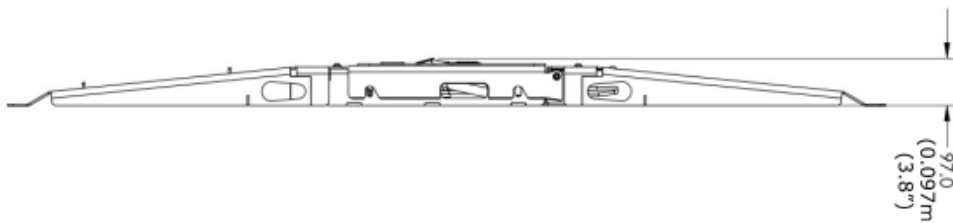


1	Trigger Ramp	6	Electrical Cabinet
2	Sensors	7	Monitor (mouse and keyboard) <i>Optional</i>
3	Mid-Section	8	Floor Line Cover
4	Interface Bracket	9	ALPR Camera
5	Drive-Up Ramp (without triggers)	10	Centre Ramp with Trigger Box inside

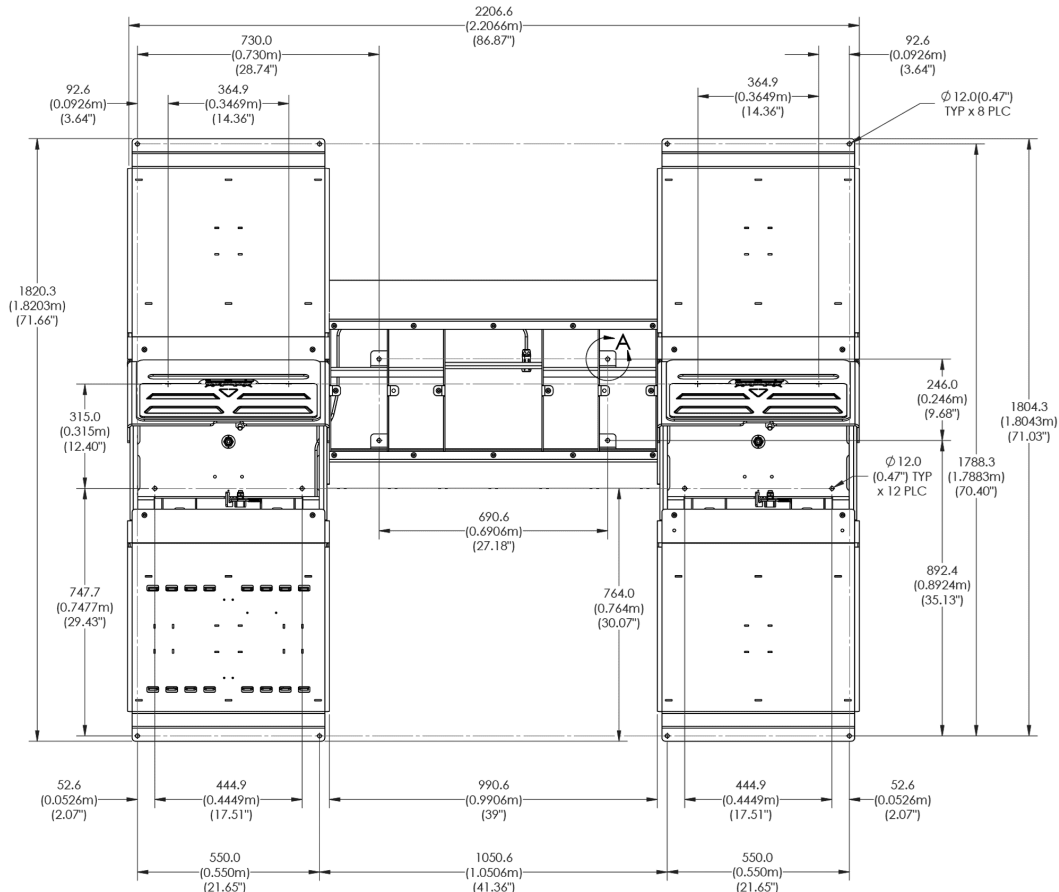
3.1. Mechanical Specification

Description	Info
Dimensions (L x W x H)	2206.6 x 1820.3 x 97 mm (86.87 x 71.04 x 3.82 inches)
Maximum axle weight	2000 kg (4410 lbs)
Operating temperature	0 to 50 °C (32 to 122 °F)
Max Humidity	90 %
Environmental rating for ramp (not Electrical Cabinet)	IP67

- **Side View** with dimensions in mm / inches:



- **Top View** with dimensions in mm / inches:



3.2. Electrical Specification

Description	Info
Main Supply	Mains 110 - 240VAC 50/60 Hz, 2A supplied to the Electrical Cabinet (with key). Ramp 48VDC, 0.6A supplied to the Trigger Control Box. Sensor (12VDC, 2A)* supplied from the Trigger Control Box to the Sensor Feet Assembly.

*This is the total power requirement for all components in the cabinet, together with the ramp itself.

The system is supplied with a single 10 m (~ 33 ft) cable to connect the ramp with the cabinet. This cable carries both data signals and the 48VDC, 0.6A to power the ramp and operates at 50 Hz and 60 Hz.



The optional 20 m (~ 66 ft) DriveOver cable (EAK0373Y04A) increases the mounting radius for the Electrical Cabinet to 16 m (~ 52 ft).

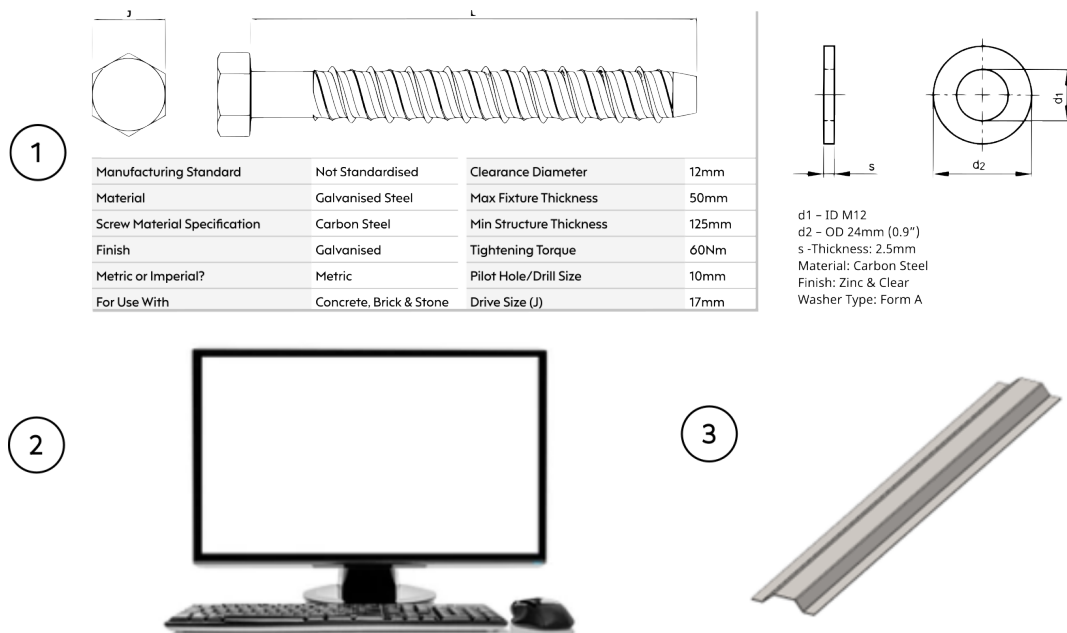
3.3. Parts List

This section shows all the system components.

3.3.1. Optional Components

The following parts are optional installation components.

#	Part Number	Description	Qty
1	EAK0373Y31A	10 x 100 mm Hex Head Concrete Screw + M12 Washer Form A DIN-125 ZN	20
2	EAK0373Y29A	IT Kit (27" Monitor with Keyboard and Mouse)	1
3	EAS2256Y64A	Cable Protection Profile (<i>Floor Line Cover</i>), 1 m	1
	EAK0373Y04A	DriveOver Cable, 20 m (~ 66 ft)	1

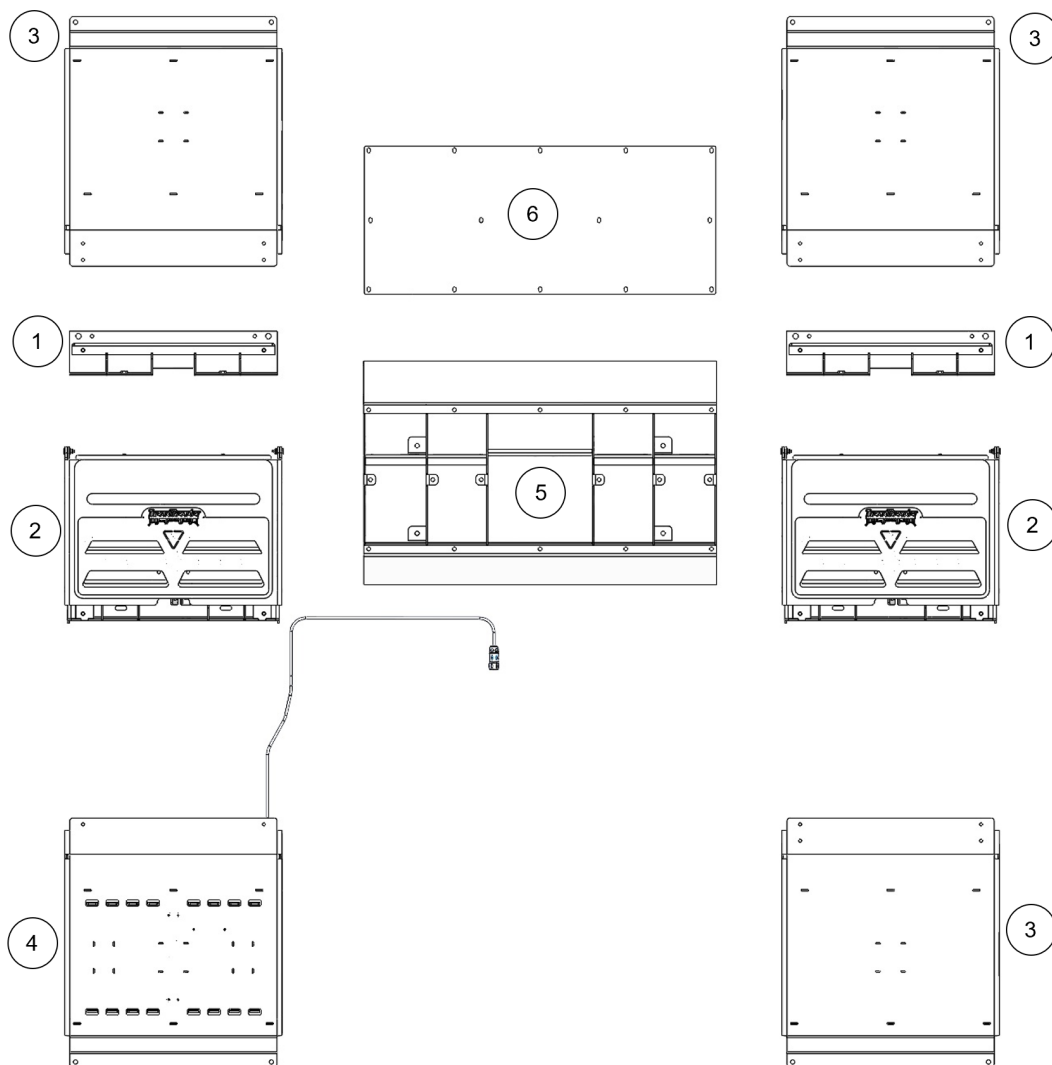


3. Machine Overview

3.3.2. Metalwork Components

The following parts are included as metalwork components.

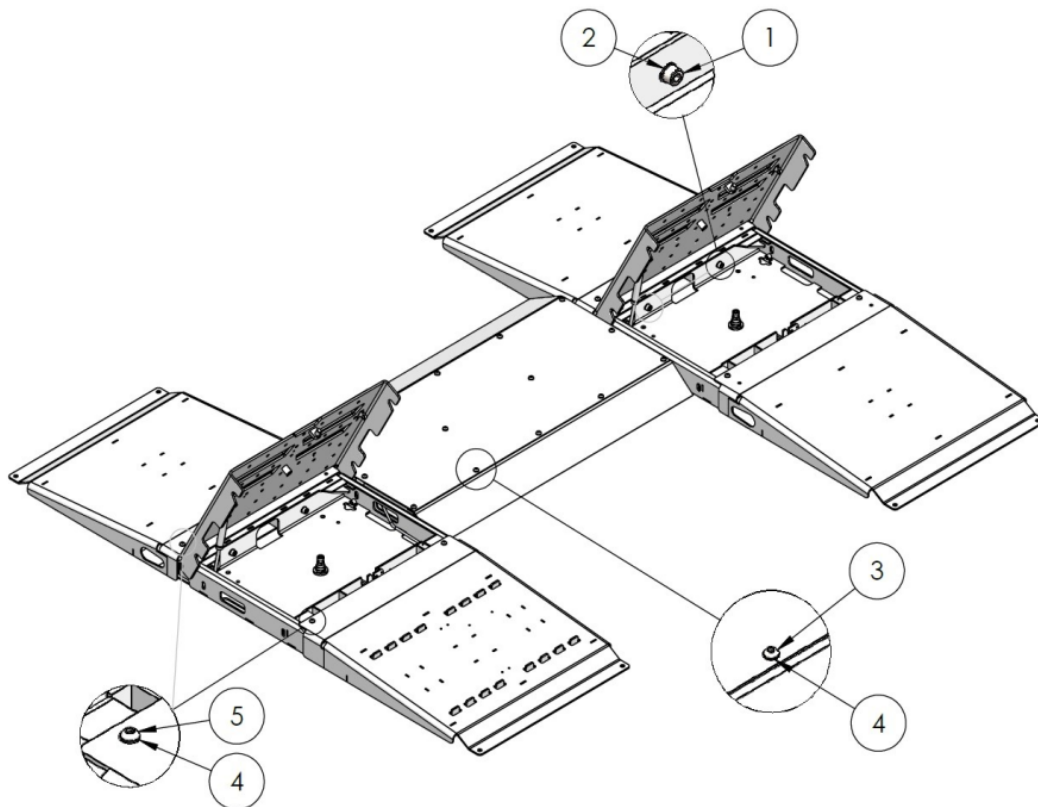
#	Part Number	Description	Qty
1	EAA0547Y22A	Interface Bracket Assembly	2
2	EAA0547Y18A	Mid-Section Top Level Assembly	2
3	EAA0547Y12A	Drive-Up Ramp Assembly (no triggers)	3
4	EAA0547Y20A	Trigger Ramp (Analogue Sensor Only)	1
5	EAA0547Y29A	Centre Ramp Assembly	1
6	EAS2256Y45A	Centre Ramp Top Cover	1



3.3.3. Metalwork Fixings Components

The following parts are included as metalwork fixings components.

#	Part Number	Description	Qty
1	1-78009A	Hex Socket Head Cap Screw DIN 912 M10 x 25 mm Steel Zinc Plated	4
2	1-06343A	Curved Spring Lock Washer DIN 128 A10 Steel Zinc Plated	4
3	1-78209A	Socket Button Head Screw M8 x 16 mm Steel Zinc Plated	14
4	1-06543A	Curved Spring Washer DIN 128 M8 x 14.8 x 8.1 mm Steel Zinc Plated	22
5	1-78109A	Socket Button Head Screw M8 x 20 mm Steel Zinc Plated	8

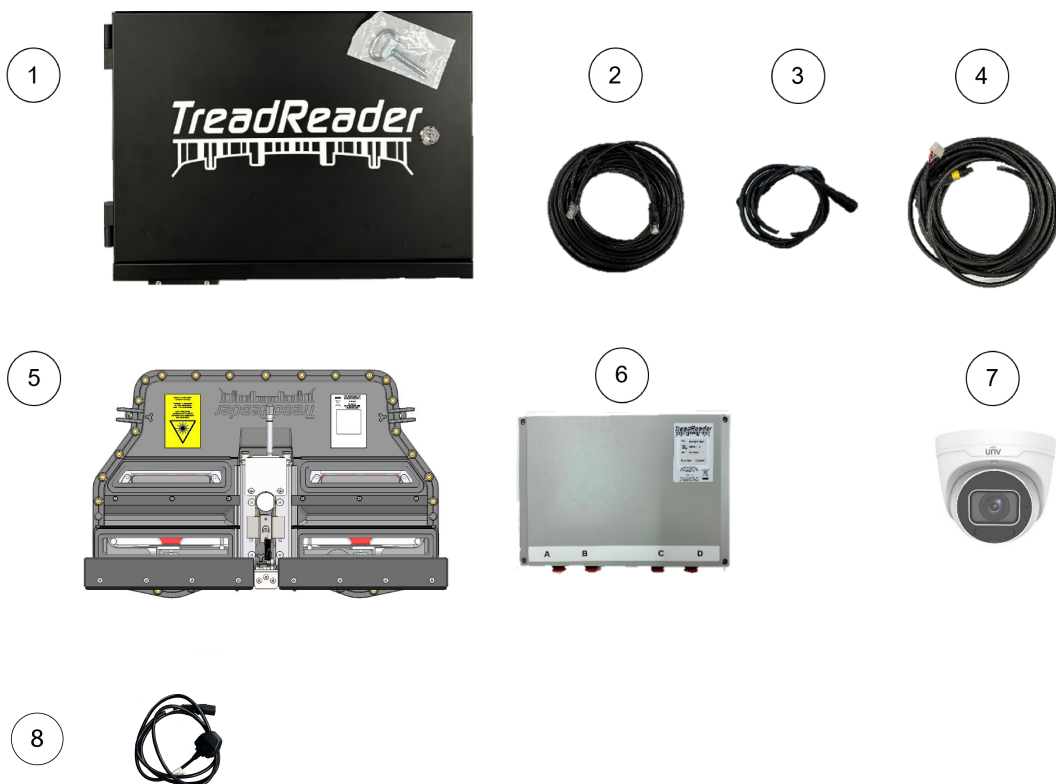


3. Machine Overview

3.3.4. Electrical Components

The following parts are included as electrical components.

#	Part Number	Description	Qty
1	EAA0547Y45A	Electrical Cabinet (<i>with key</i>)	1
2	EAX0077Y08A	ALPR Camera Cable, 20 m (~ 66 ft)	1
3	EAX0077Y00A	DriveOver Cable, 2.5 m (~ 8 ft)	1
4	EAX0077Y01A	DriveOver Cable, 10 m (~ 33 ft)	1
5	EAA051901A	Sensor & Feet Assembly	2
6	EAA0547Y02A	Trigger Box	1
7	2-96366A	ALPR Varifocal Dome Camera (5MP) with Base	1
8	6-05221A	European Power Cable, 3 m (~ 10 ft)	1
8	6-08721A	IRE/ENG Power Cable, 3 m (~ 10 ft)	1



3.3.5. Pneumatic Components

The following parts are included as pneumatic components.

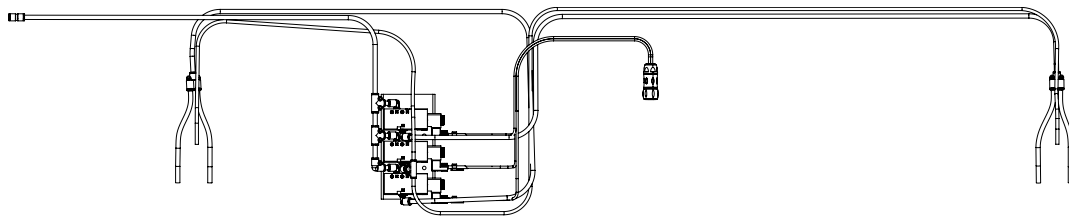


The hose between the the customer's compressed air supply to the ramp is not included in the delivery.

It will be supplied by the Customer or Installer according to the following specification:

Polyurethane Tubing with an outer diameter of 8 mm (5/16 inch) and inner diameter of 5.5 mm (7/32 inch).

#	Part Number	Description	Qty
1	EAA0547Y43A	Pneumatic Assembly	1



4. Handling the Equipment

	WARNING
	Risk of lifting injuries
	Muscle strain or back injury from lifting heavy or improperly. For items of DriveOver Surface Ramp EMEA EETD915AEA that has a weight:
	Above 25 Kg , but less than 50 Kg (55/110 lbs) two or more persons may be required to lift or move the item.
	Above 50 Kg (110 lbs) lifting equipment is required.
	Bend your legs, keep your back as straight as possible, keep the load close to your body, grip the box or load at opposite corners.

4.1. Transportation and Storage

The **EETD915AEA** is typically shipped in a crate on a standard pallet, centre of gravity is located in the middle of pallet at 250 mm (~ 10 inches) above the floor of the pallet.



A fork lift is recommended to move the crate near to the installation location. Only an operator with the correct training and license shall do so.

Description	EETD915AEA
Shipping dimensions (box dimension)	1200 x 800 x 900 mm (47 x 32 x 36 inches)
Shipping Weight	~ 300 kg (~ 661.4 lbs)
Storage temperature	-10 to 60 °C (14 to 140 °F)
Max Humidity	90 %

4.2. Recycling

When scrapping or dismantling the **EETD915AEA**, please contact the dealer or distributor in your country for further information regarding the disposal of it. Make sure to follow local laws and regulations regarding recycling.

This product shall not be mixed or disposed with commercial waste. All plastic hoses, steel and aluminum should be sorted for recycling.



5. Installation

The following chapters provides information for the installation of **DriveOver Surface Ramp EMEA EETD915AEA**.



This procedure should be performed by an authorised Installation personnel.

5.1. Site Requirements

The site must be prepared according to the requirements in this chapter.

5.1.1. Floor and Anchor Requirements



The **DriveOver Surface Ramp EMEA EETD915AEA** should be placed on a SOLID floor structure. The following floor conditions must be achieved.

- **A front to rear** (longitudinal) floor slope of less than 1.2 degrees (21 mm per meter, 1/4 inch per foot) is acceptable.
- **A side-to-side** (lateral) floor slope of 0.5 degree is allowable (9 mm per meter, 1/8 inch per foot).

Under most conditions, levelling is not necessary. However, if excessive floor slope or irregularities are present, levelling using shims may be required. This is to ensure full contact between the **Surface Ramp EMEA** and the mounting surface.

The construction of the floor in this area should be such that the equipment can be securely anchored using 10 x 100 mm Hex Head Concrete Screw and M12 Washer Form A DIN-125 ZN. Drill Ø10 mm (3/8 inch) anchor holes with a minimum depth of 110 mm (4 inches).



10 x 100 mm Hex Head Concrete Screw and M12 Washer Form A DIN-125 ZN is available as a kit: EAK0373Y31A

5.1.2. Power Requirements

The Electrical Cabinet is powered by 110 - 240VAC 50/60 Hz, 2A.

This is the total power requirement for all components in the cabinet, together with the ramp and ALPR camera.

The system is supplied with a single 10 m (~ 33 ft) DriveOver cable to connect the ramp with the Electrical Cabinet. This cable carries both data signals and the 48VDC, 0.6A to power the ramp.



The optional 20 m (~ 66 ft) DriveOver cable (EAK0373Y04A) increases the mounting radius for the Electrical Cabinet to 16 m (~ 52 ft).

5.1.3. Compressed Air Requirements

The **DriveOver Surface Ramp EMEA EETD915AEA** requires a compressed air supply for the mechanical sensor shutter and sensor air knife.

The air assembly parts are rated for max 8.0 bar (115 psi) using a higher pressure will cause damage to the air assembly and sensor. Make sure the air supply is clean and dry.

	DANGER
	Risk of permanent injury or death
	Misuse of compressed air is highly dangerous and may cause permanent injury or death. Appropriate PPE (Personal Protective Equipment) like safety glasses, gloves and hearing protection must be worn when connecting and servicing the compressed air supply.
	Make sure compressed air is turned off and no air left in the system before starting any work. Wear Safety Glasses, Gloves and Hearing Protection.

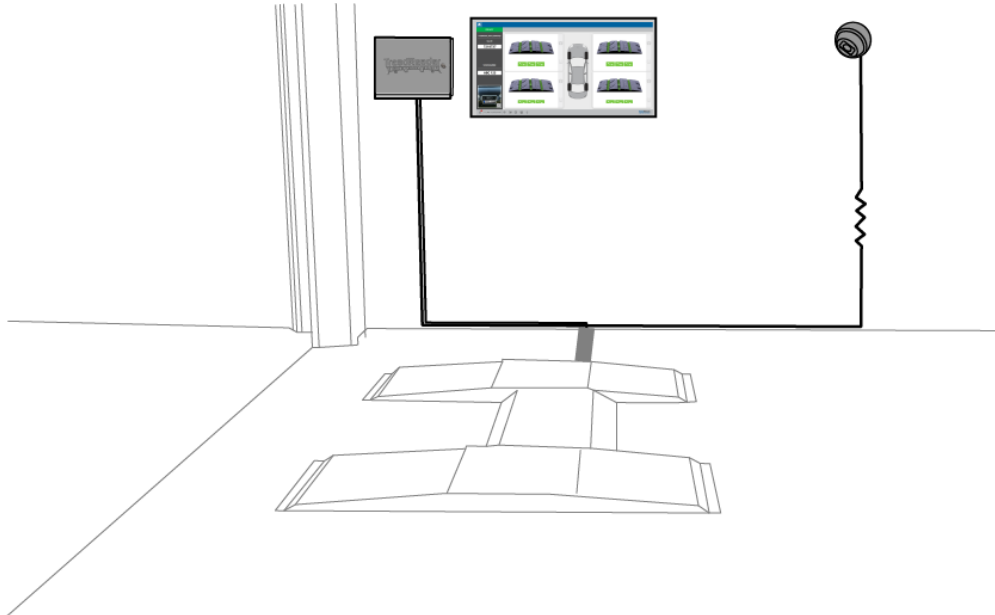
5.1.4. Environmental Considerations

DriveOver Surface Ramp EMEA EETD915AEA must not be installed outdoors or in areas exposed to rain.

	DANGER
	Risk of electric shock
	Installation in areas of standing water or flooding is prohibited. Never expose the equipment to rain.
	Hosing down of the ramps is allowed. Do not pressure wash under any circumstances.

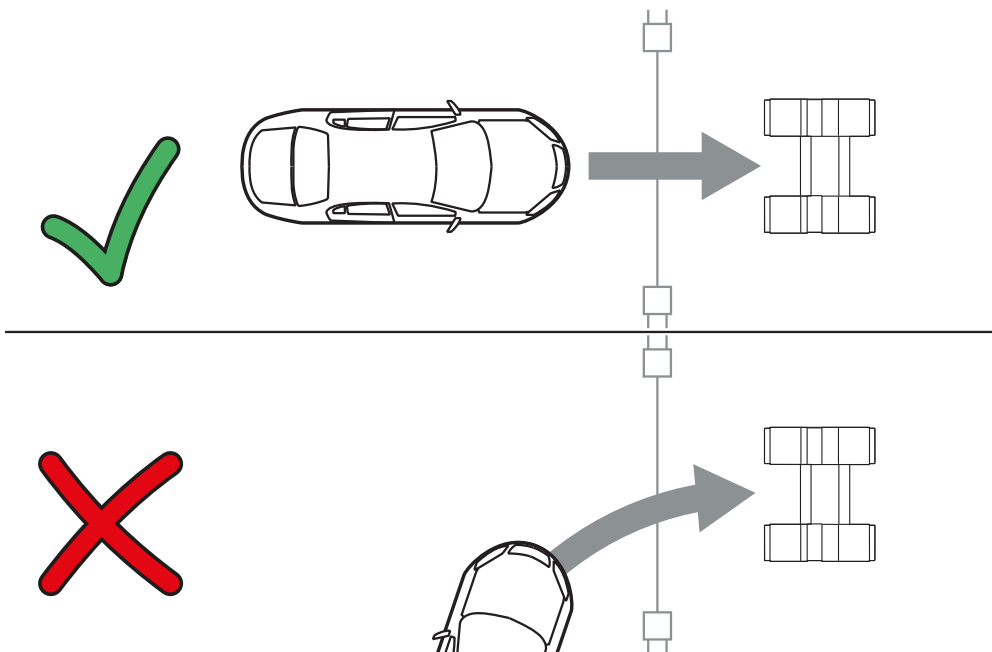
5.2. Prepare the Placement

The **DriveOver Surface Ramp EMEA EETD915AEA** is typically installed inside and near the entrance to a building.

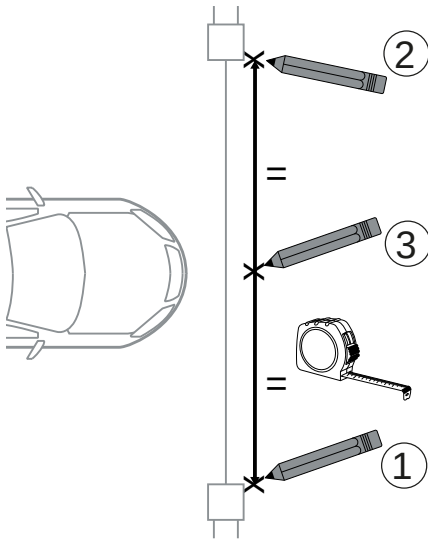


When choosing the location to install the ramp, follow the steps below:

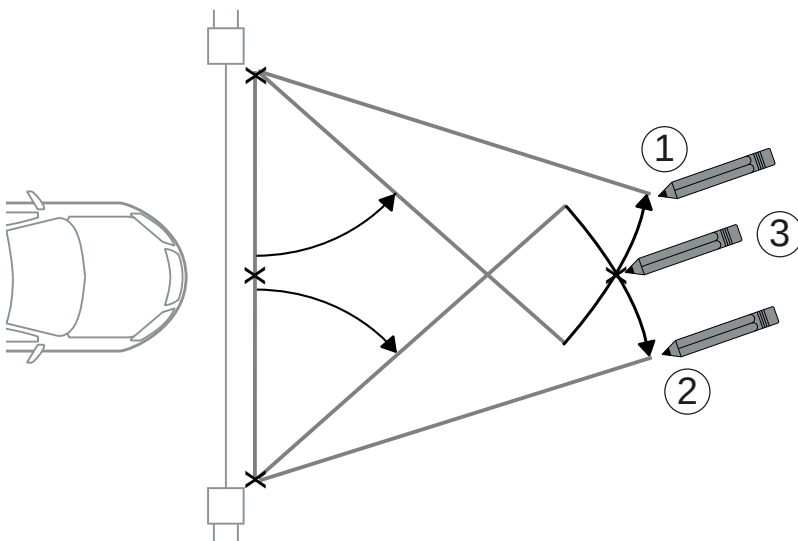
1. Ensure vehicle is driven straight over the ramp. Avoid having to turn onto or off the ramp.



2. Measure the width of the entrance.
3. Draw a **centre mark** on the floor.

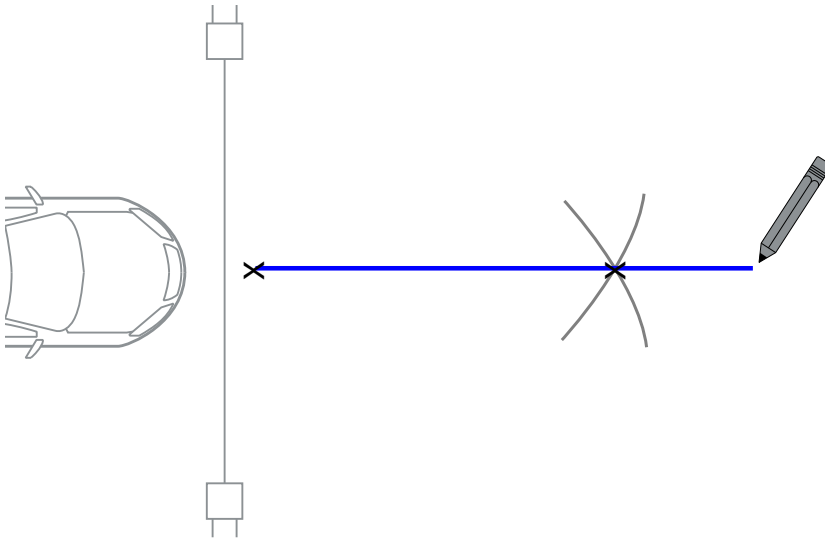


4. Use the width of the entrance to draw **another centre mark** inside the first centre mark.
It must be at a minimum of **1.5 m (~ 5 ft)**.

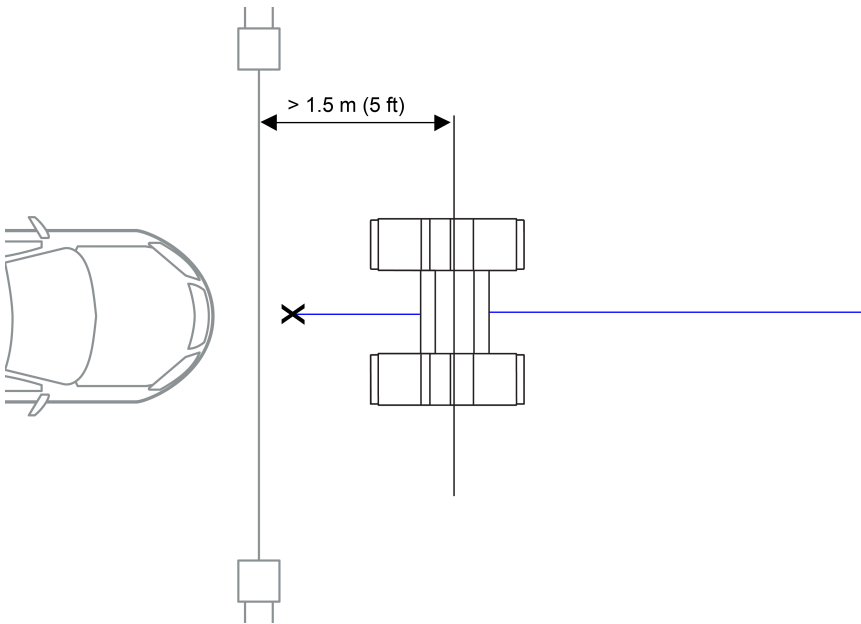


5. Installation

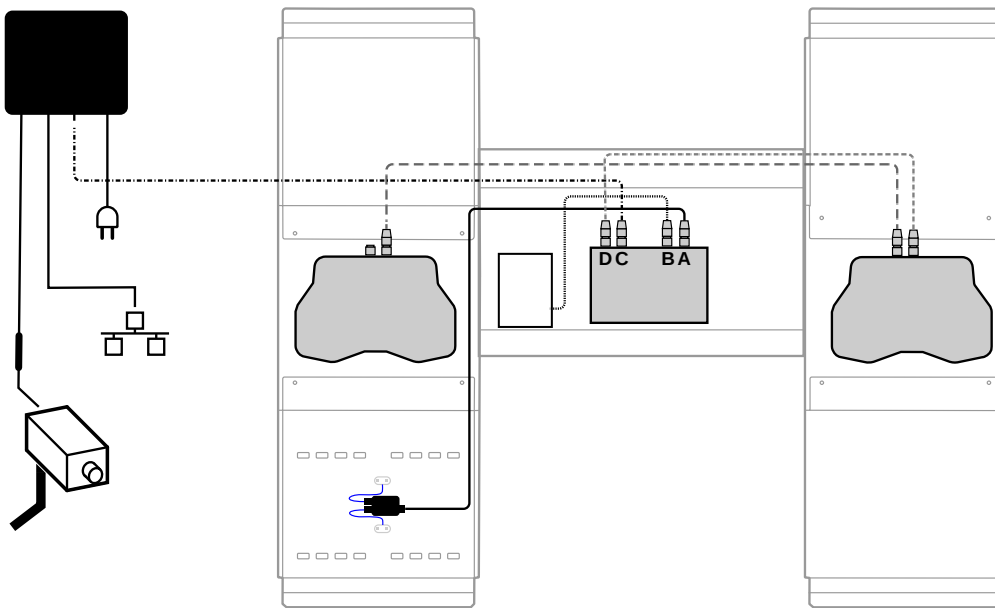
5. Draw a **centre line** between the centre marks. It will be used as a reference, to align the front and back of the ramp.



6. The centre of the ramp should be at a minimum of **1.5 m (~ 5 ft)** inside the entrance to prevent vehicles from turning onto the ramp.



5.2.1. Cable overview



Copper Grease is recommended to use on all **Surface Ramp EMEA** fixings, not required for floor securing fixings.



Make sure no cables get trapped or pinch by the metalwork during routing and installation.

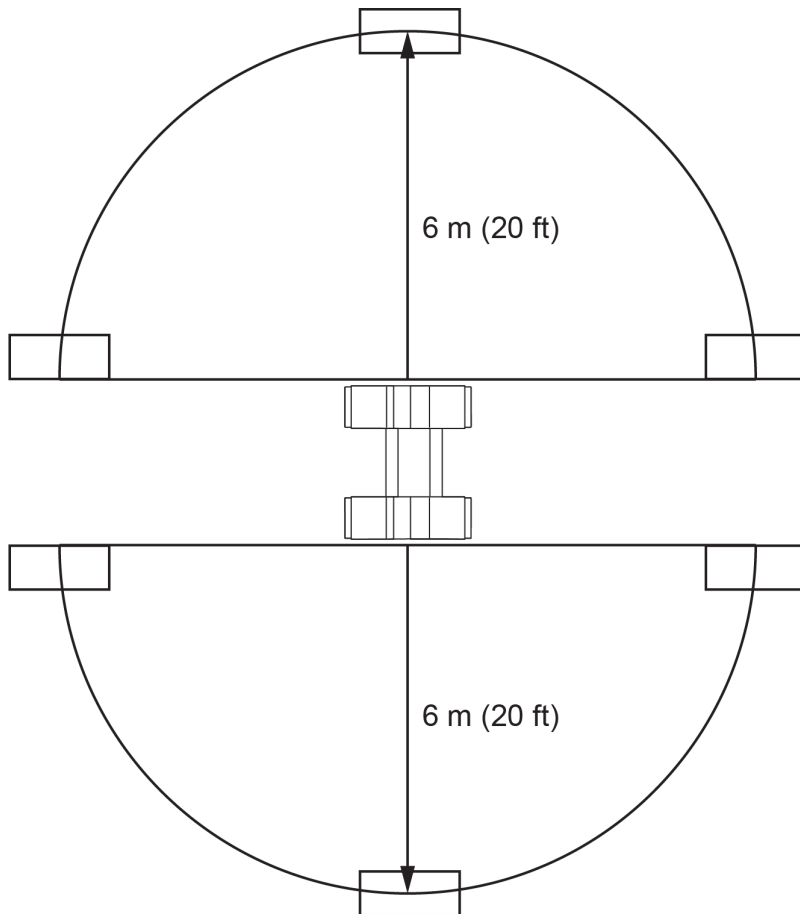
5. Installation

5.2.2. Electrical Cabinet Location

Electrical Cabinet needs to be mounted on a maximum radius of **6 m (~ 20 ft)** from the edge of the ramp. This is applicable when using the supplied **10 m (~ 33 ft)** DriveOver Cable.



The optional 20 m (~ 66 ft) DriveOver cable (EAK0373Y04A) increases the mounting radius for the Electrical Cabinet to 16 m (~ 52 ft).



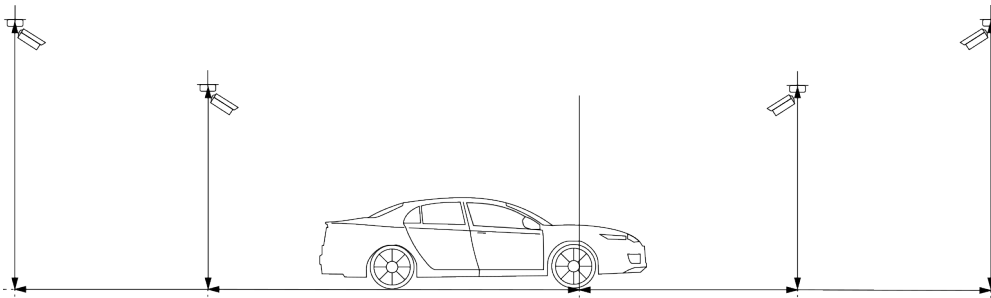
5.2.3. ALPR Camera Location

The supplied ALPR Camera cable is **20 m (~ 66 ft)**. The software gives the option to either trigger on the front or rear axle.

5.2.3.1. Camera Centre Front Axle Trigger

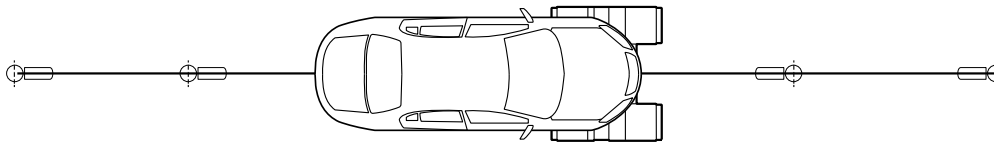
Determine the camera height (m/ft):

- The distance required is **2x** the height (see minimum distance below).
- If the ceiling is taller, the camera distance from the **Surface Ramp EMEA** trigger needs to be extended.



Camera distance (m/ft):

- **Rear minimum distance** from trigger: **5 m (~ 16 ft)** because of the boot lid overhang.
- **Front minimum distance** from trigger: **3 m (~ 10 ft)**

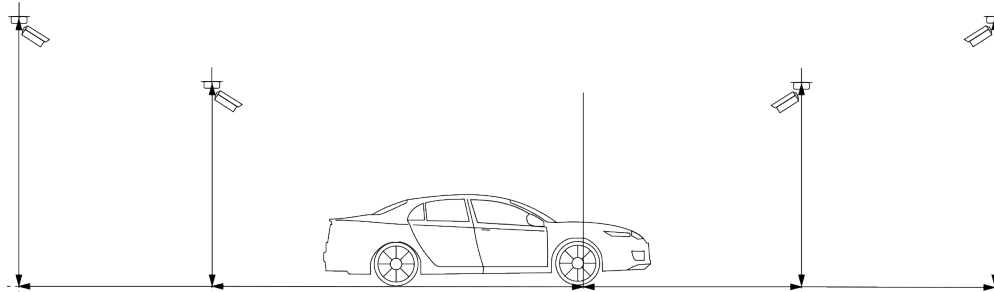


5. Installation

5.2.3.2. Camera Off-Centre Front Axle Trigger

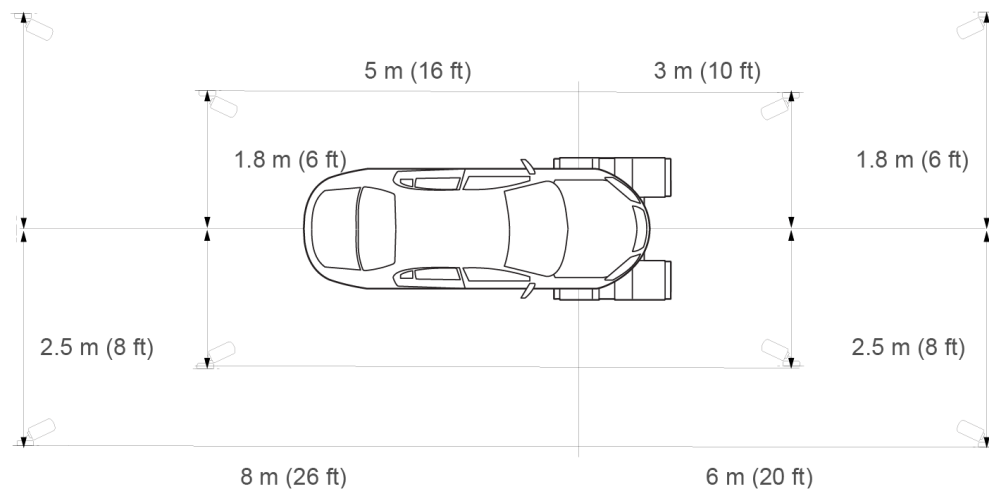
Determine the camera height (m/ft):

- The distance required is **2x** the height (see minimum distance below).
- If the ceiling is taller, the camera distance from the **Surface Ramp EMEA**, trigger needs to be extended.



Camera distance (m/ft):

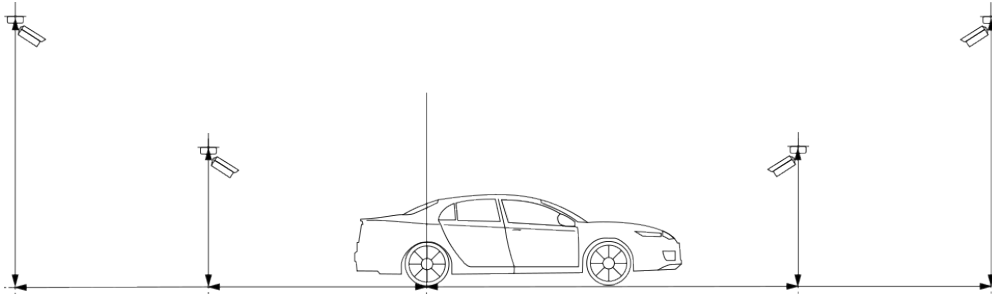
- **Rear minimum distance** from trigger: **5 m (~ 16 ft)** because of the boot lid overhang.
 - At this distance max off-centre is **1.8 m (~ 6 ft)**. A larger angle will cause the ALPR software to fail reading the License Plate information.
- **Front minimum distance** from trigger: **3 m (~ 10 ft)**
 - At this distance max off-centre is **1.8 m (~ 6 ft)**. A larger angle will cause the ALPR software to fail reading the License Plate information.



5.2.3.3. Camera Centre Rear Axle Trigger

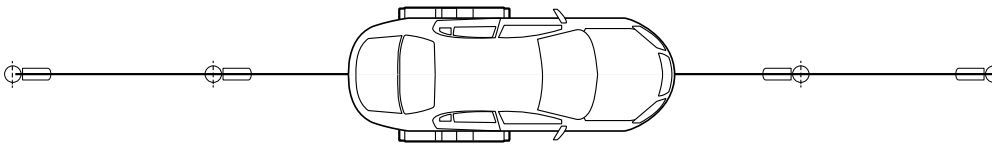
Determine the camera height (m/ft):

- The distance required is **2.5x** the height (see minimum distance below).
- If the ceiling is taller, the camera distance from the **Surface Ramp EMEA** trigger needs to be extended.



Camera distance (m/ft):

- **Rear minimum distance** from trigger: **3 m (~ 10 ft)** because of the boot lid overhang.
- **Front minimum distance** from trigger: **6 m (~ 20 ft)**

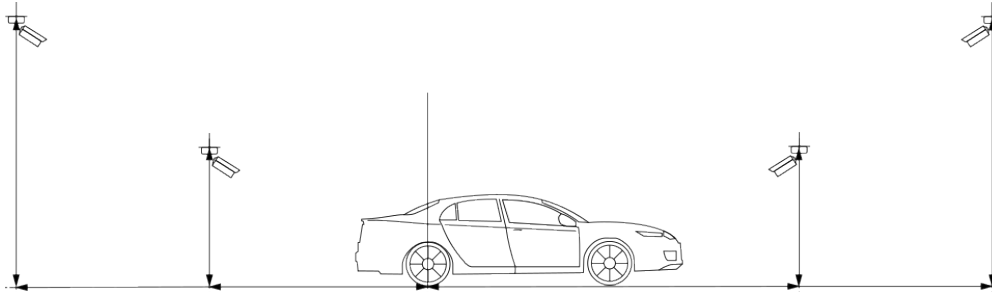


5. Installation

5.2.3.4. Camera Off-Centre Rear Axle Trigger

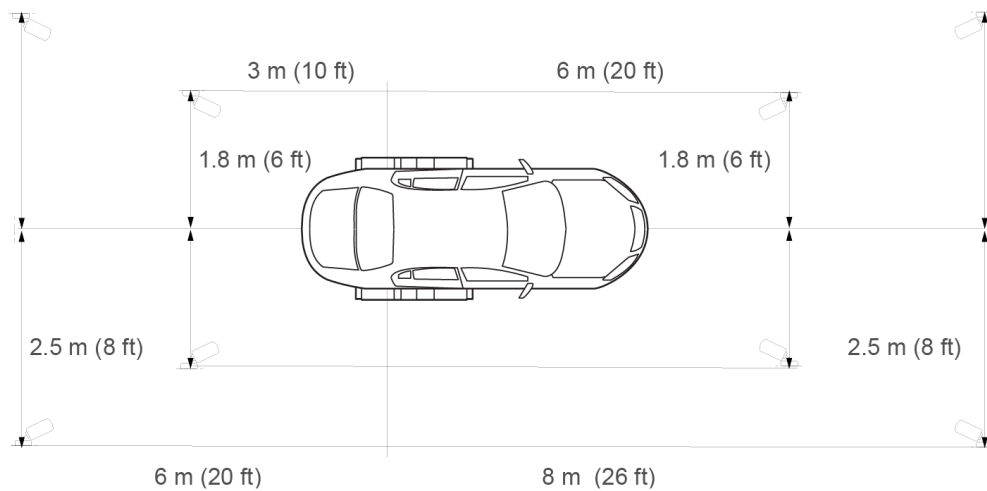
Determine the camera height (m/ft):

- The distance required is **2x** the height (see minimum distance below).
- If the ceiling is taller, the camera distance from the **Surface Ramp EMEA**, trigger needs to be extended.



Camera distance (m/ft):

- **Rear minimum distance** from trigger: **3 m (~ 10 ft)** because of the boot lid overhang.
 - At this distance max off-centre is **1.8 m (~ 6 ft)**. A larger angle will cause the ALPR software to fail reading the License Plate information.
- **Front minimum distance** from trigger: **6 m (~ 20 ft)**
 - At this distance max off-centre is **1.8 m (~ 6 ft)**. A larger angle will cause the ALPR software to fail reading the License Plate information.



5.3. Installing the Surface Ramp EMEA



Copper Grease is recommended to use on all **Surface Ramp EMEA** fixings, not required for floor securing fixings.



WARNING

Risk of lifting injuries

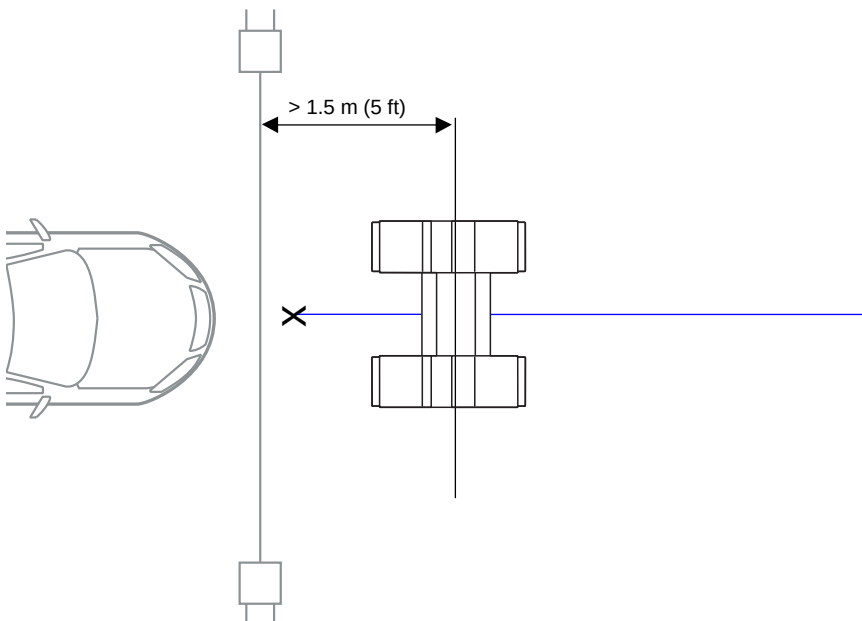
Muscle strain or back injury from lifting heavy or improperly. For items of DriveOver Surface Ramp EMEA EETD915AEA that has a weight:

Above 25 Kg, but less than 50 Kg (55/110 lbs) two or more persons may be required to lift or move the item.

Above 50 Kg (110 lbs) lifting equipment is required.

Bend your legs, keep your back as straight as possible, keep the load close to your body, grip the box or load at opposite corners.

1. Remove all packaging materials and lay out all parts on the ground.
2. Check the delivery against the **Parts List**.
3. Position all mechanical parts loosely against each other on the drawn centre line.
4. The centre of the ramp should be at a minimum of **1.5 m (~ 5 ft)** inside the entrance to prevent vehicles from turning onto the ramp.
5. Ensure vehicle is driven straight over the ramp. Avoid having to turn onto or off the ramp.
6. Check that the ramp sits flat to the floor.
If the ramp does not sit flat to the floor, then the position may be moved slightly to compensate.

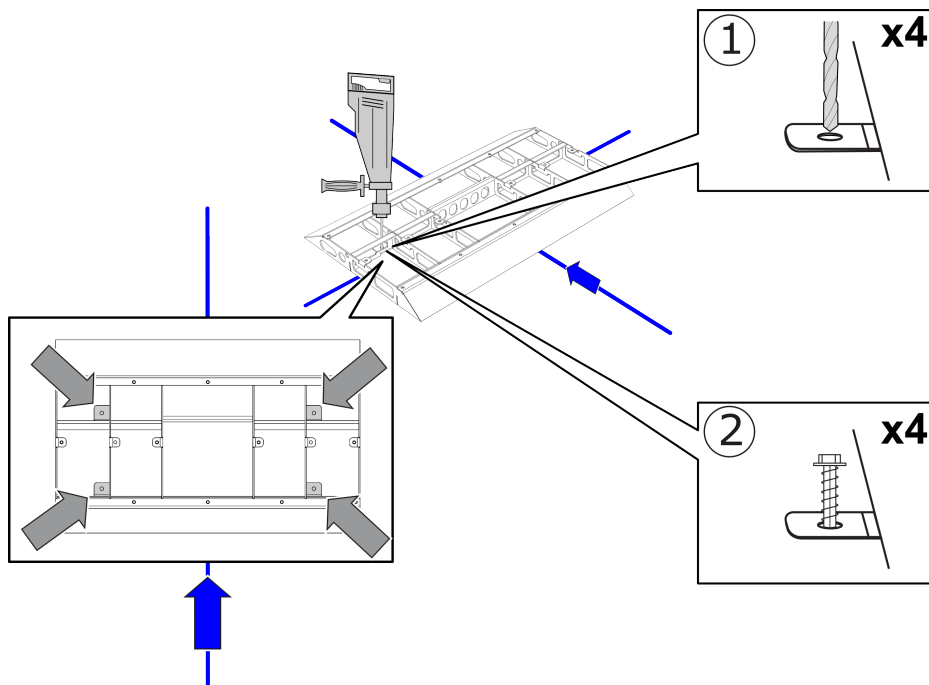


5. Installation

7. Check that the Centre Ramp is correctly oriented on the centre line (as shown in the illustration).+ The blue arrow indicates the travel direction.
8. Re-check that the ramp position is correct.
9. Drill four Ø10 mm (3/8 inch) anchor holes with a minimum depth of 110 mm (4 inches).
10. Clean out the drilled holes and area prior to fitting the screws.
11. Securely anchor it to the ground using listed fixings.
 - 10 x 100 mm Hex Head Concrete Screw
 - M12 Washer Form A DIN-125 ZN

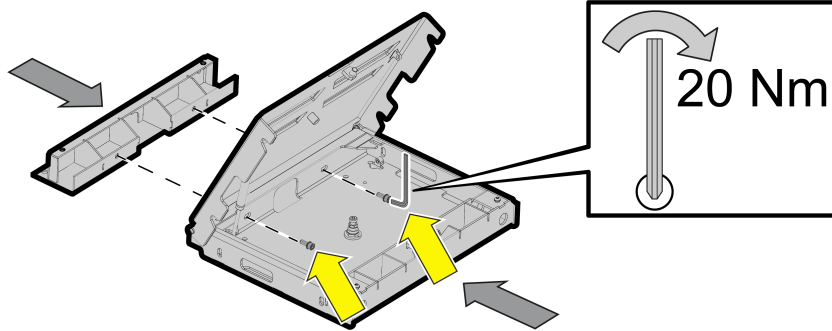


If using a high-power impact wrench to tighten screws, make sure you have set the correct torque setting as over-tightening the screws may strip the concrete hole.
If unsure, do not completely tighten the screws. Use a **17 mm** socket wrench to tighten them.

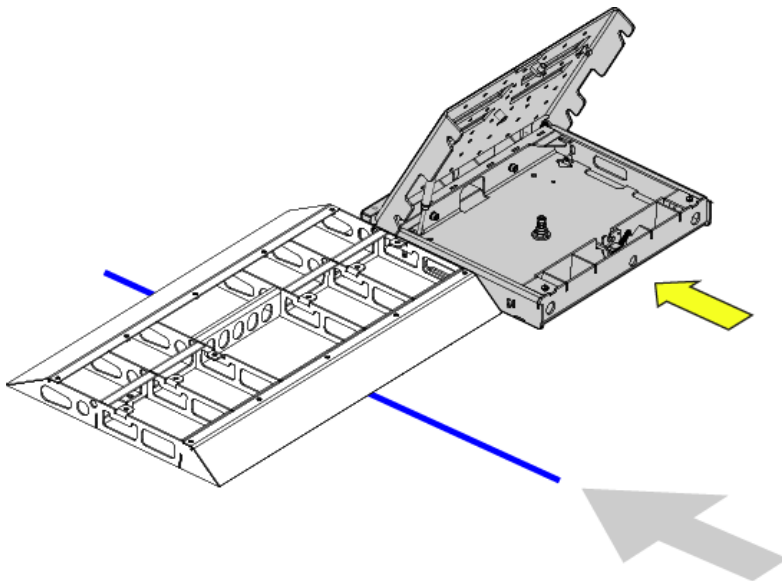


The two Mid-Sections should come assembled with the Interface Brackets in place. If not, you will need to bolt the interface brackets onto the Mid-Section before proceeding any further using the fixings below on each side.

- 2 x HEX Socket Head Cap DIN 912 M10 x 25 mm Steel Zinc Plated
- 2 x Curved Spring Lock Washer DIN 128 A10 Steel Zinc Plated



12. Position the Mid-Sections (with the lids opening in the travel direction) on each side of the Centre Ramp. Align the hinge pin with the clearance hole on the outside of the Centre Ramp.



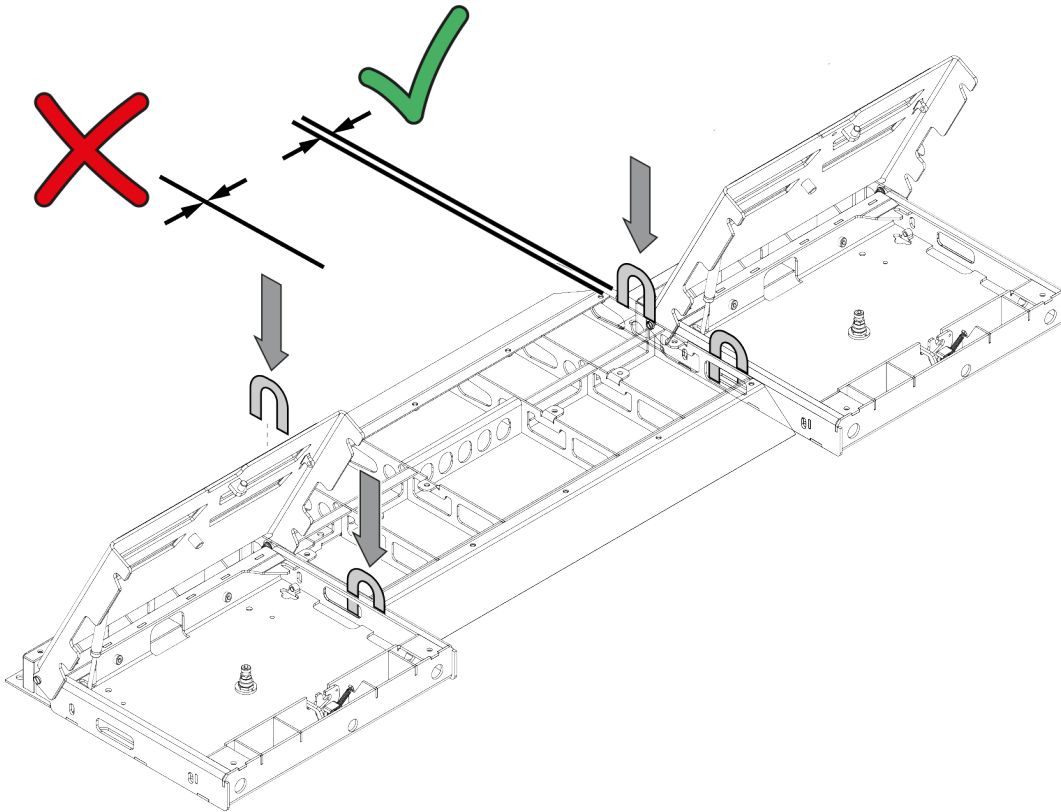
5. Installation

13. Make sure to have a minimum **clearance gap of 8 mm** (5/16 inch) between the side of the Mid-Section and Centre Ramp.

This allow room for the lid to open and close without hitting the Centre Ramp.

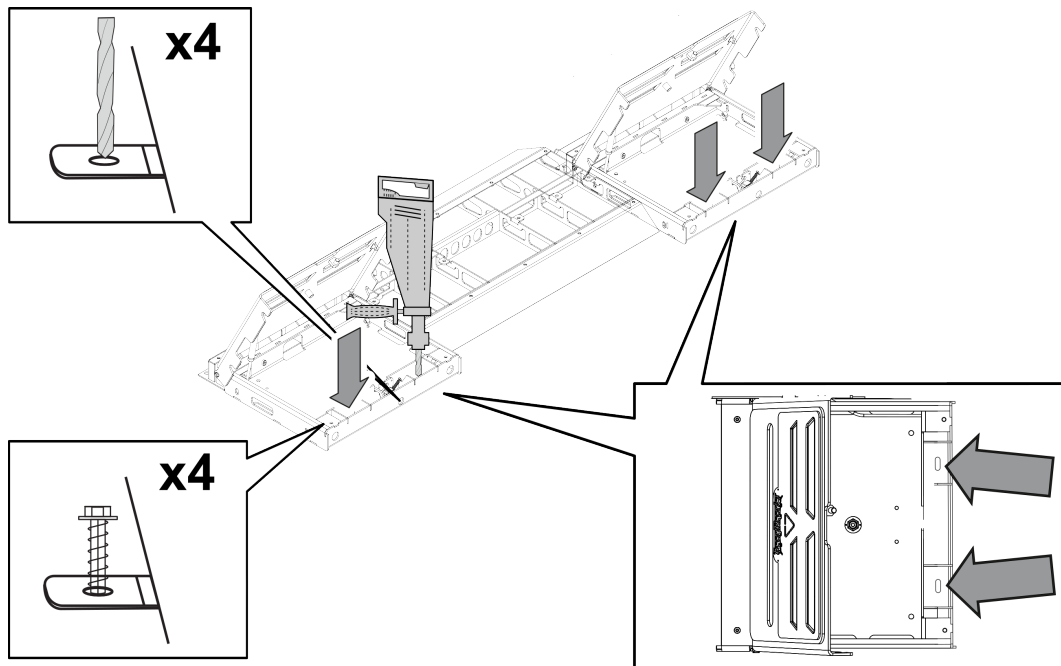


Newer revision of the Mid-Section have mechanical tabs to maintain this gap without the need for shims.



14. Open and close the lid several times to verify that there is no interference between the lid and the Centre Ramp.
15. Drill four Ø10 mm (3/8 inch) anchor holes with a minimum depth of 110 mm (4 inches) for each Mid-Section.
16. Clean out the drilled holes and area prior to fitting the screws.
17. Anchor the Mid-Sections to the floor with four **front fixings** on each.
 - 10 x 100 mm Hex Head Concrete Screw
 - M12 Washer Form A DIN-125 ZN

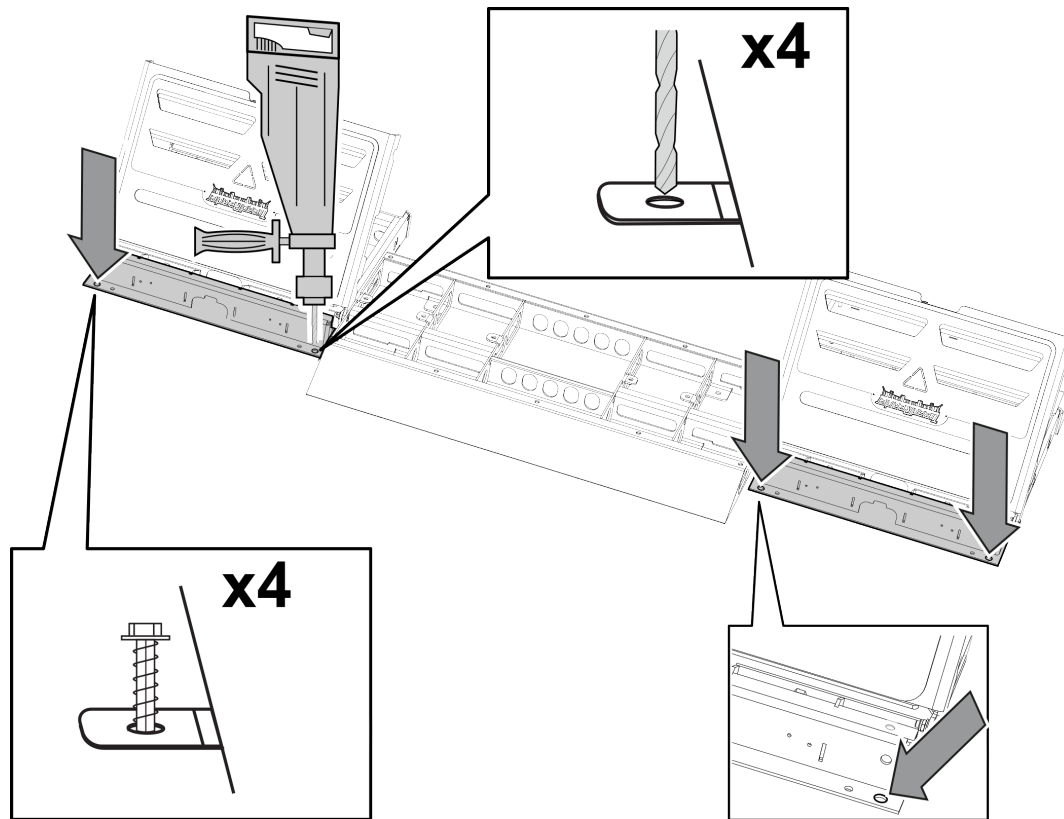
4x Front Fixings



5. Installation

18. Drill four Ø10 mm (3/8 inch) anchor holes with a minimum depth of 110 mm (4 inches) for each Mid-Section.
19. Clean out the drilled holes and area prior to fitting the screws.
20. Anchor the Mid-Sections to the floor with four **back fixings** on each.
 - 10 x 100 mm Hex Head Concrete Screw
 - M12 Washer Form A DIN-125 ZN

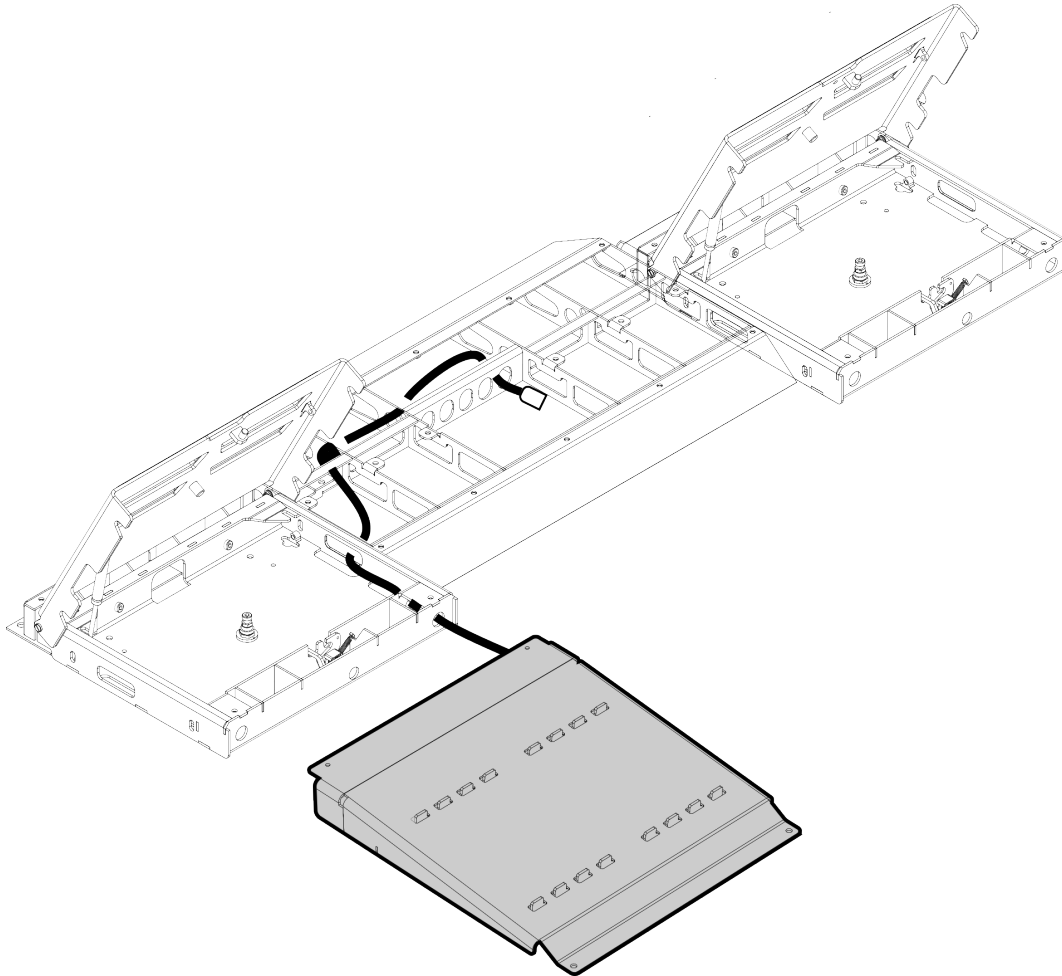
4x Back Fixings



21. Place the Trigger Ramp in front of the left Mid-Section.
22. Feed the cable through the hole in the front of the Mid-Section and route as shown in image below.

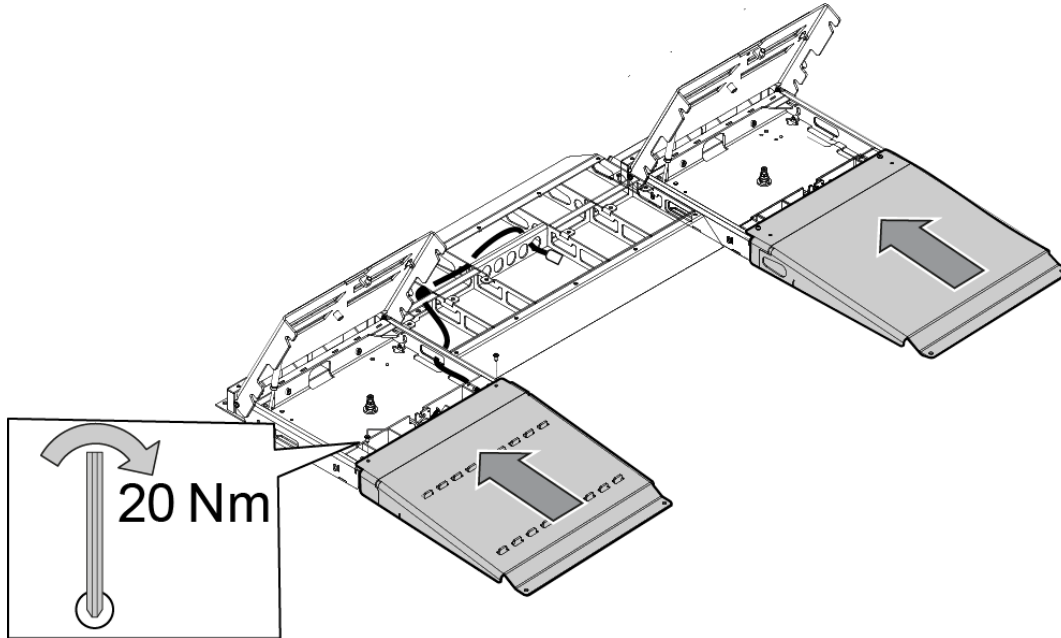


Make sure no cables get trapped or pinch by the metalwork during routing and installation.

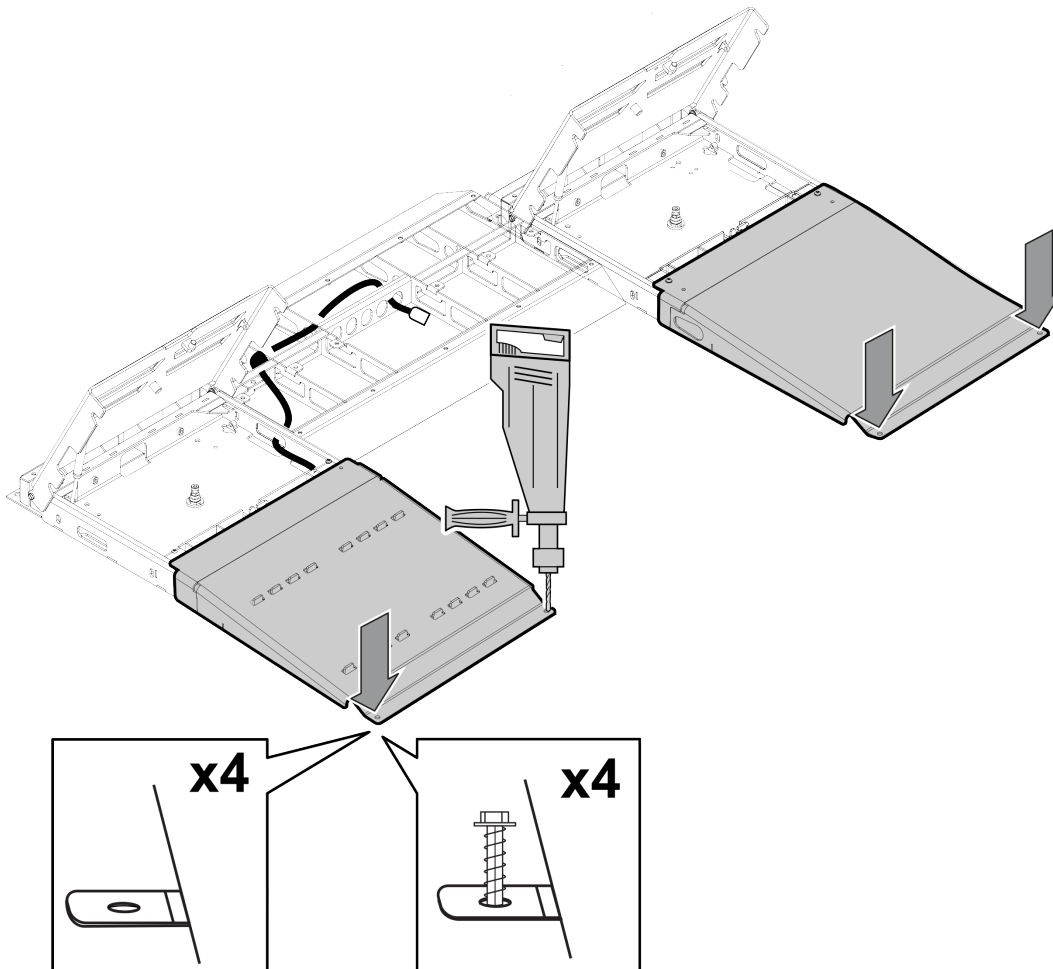


5. Installation

22. Place the Drive-Up Ramp in front of the right Mid-Section.
23. Secure the Trigger Ramp and Drive-Up Ramp to the Mid-Sections using listed fixings.
 - 2 x Washer Curved Spring - DIN 128 M8 x 14.8 mm
 - 2 x M8 x 20 mm SKT Button Head Screw Steel on each side.

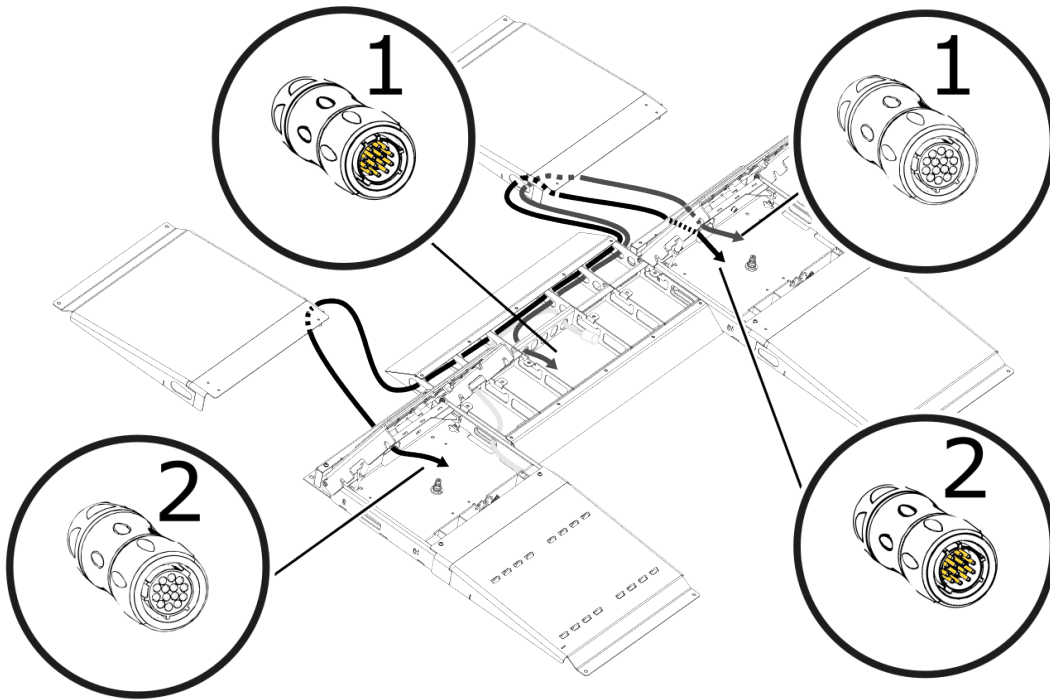


23. Check alignment of the Trigger Ramp and the Drive-Up Ramp.
24. Drill two Ø10 mm (3/8 inch) anchor holes with a minimum depth of 110 mm (4 inches) for each side.
25. Clean out the drilled holes and area prior to fitting the screws.
26. Anchor the Trigger Ramp and the Drive-Up Ramp to the floor using listed fixings.
 - 10 x 100 mm Hex Head Concrete Screw
 - M12 Washer Form A DIN-125 ZN

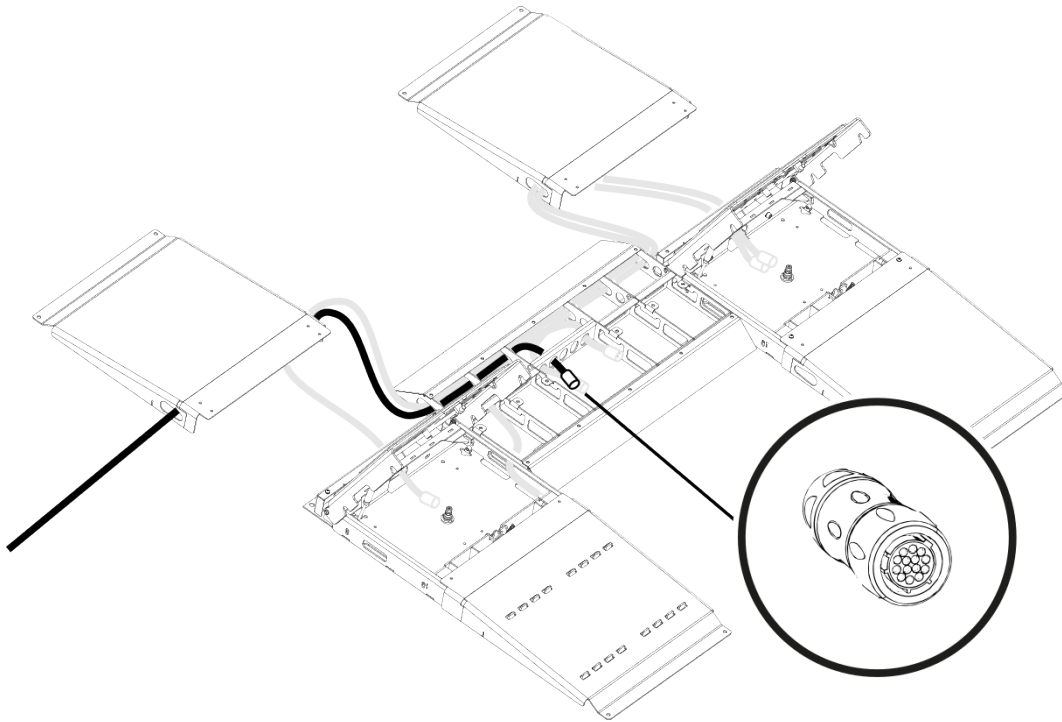


5. Installation

27. Position the rear Drive-Up Ramps.
28. Route the **2.5 m (~ 8 ft) DriveOver Cable** through the Mid-Section making sure that connector side exits through the correct holes in the Mid-Section
- **Cable 1 & 2** - In the **right** Mid-Section there should be a **Male and Female connector**.
 - **Cable 1** - In the **Centre Ramp** there should be one **Male connector**.
 - **Cable 2** - In the **left** Mid-Section there should be one **Female connector**.



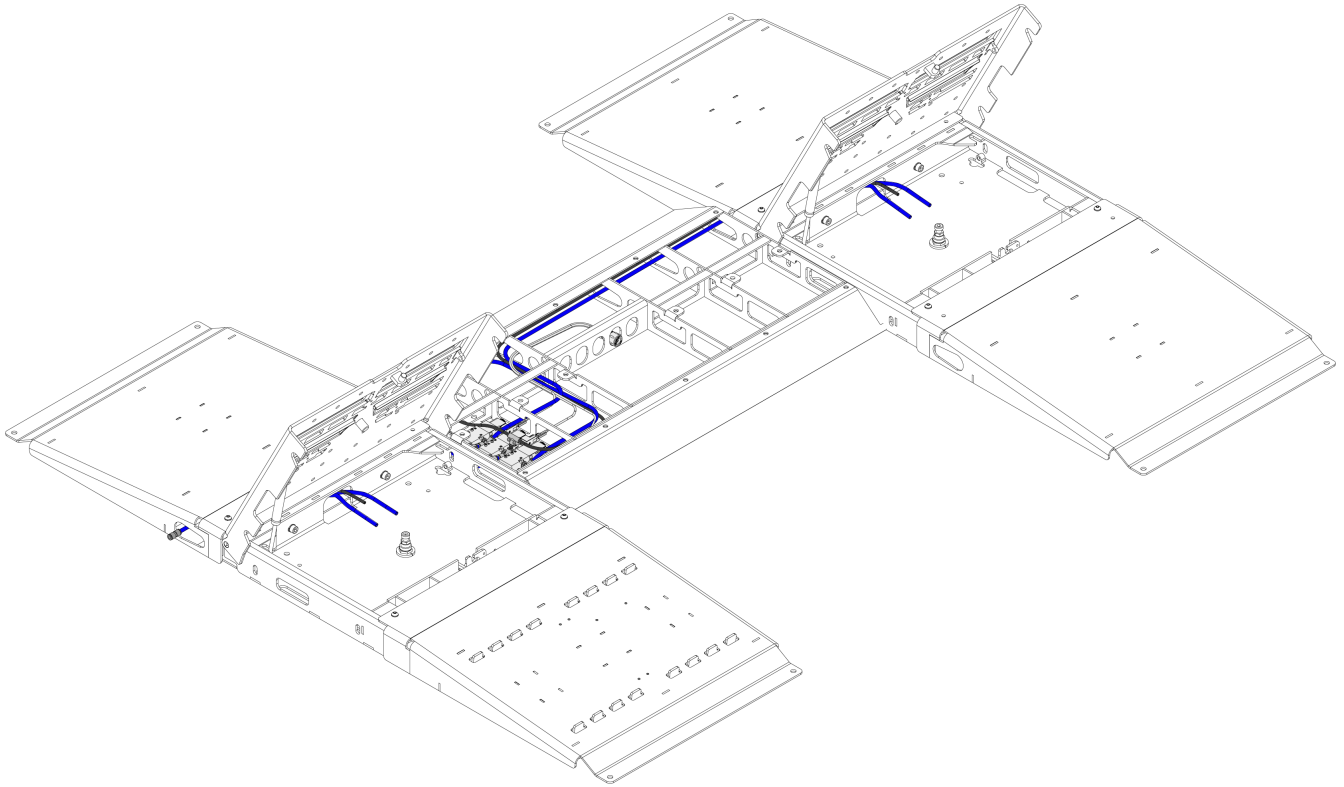
29. Route the **10 m (~ 33 ft) DriveOver Cable**, through the Drive-Up Ramp to the Centre Ramp.
This will bring a **Female connector** to be connected to the Trigger Box port **C**.
Image below is showing the cable exiting on the left side, however it is possible to have the cable exiting on the right side.



The optional 20 m (~ 66 ft) DriveOver cable (EAK0373Y04A) increases the mounting radius for the Electrical Cabinet to 16 m (~ 52 ft).

5. Installation

30. Install the Air Assembly in the left compartment of the centre section.
31. Route the Blue and Black Air hoses as shown below.



To fit the air hose and the solenoid cables inside of the structure, it is required to remove the hoses and unscrew the solenoid at the black thumb screw to slide them off the valve.

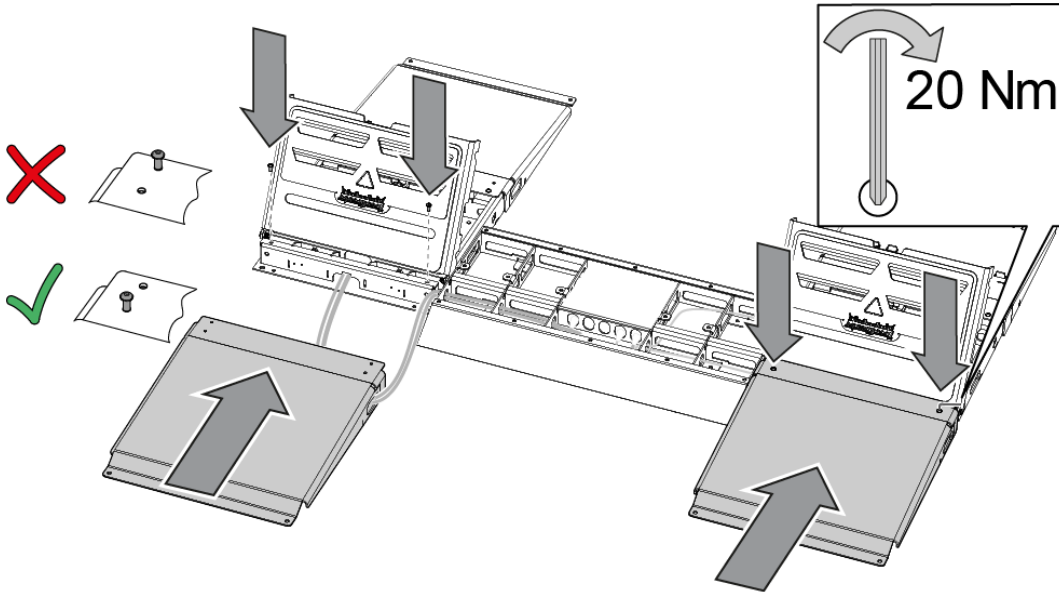
31. Position the Rear Drive-Up Ramps.
32. Secure them to Mid-Section using listed fixings.
 - 2 x Washer Curved Spring DIN 128 M8 x 14.8 mm
 - 2 x M8 x 20 mm Socket Button Head Screw Steel.



Make sure no cables get trapped or pinch by the metalwork during routing and installation.

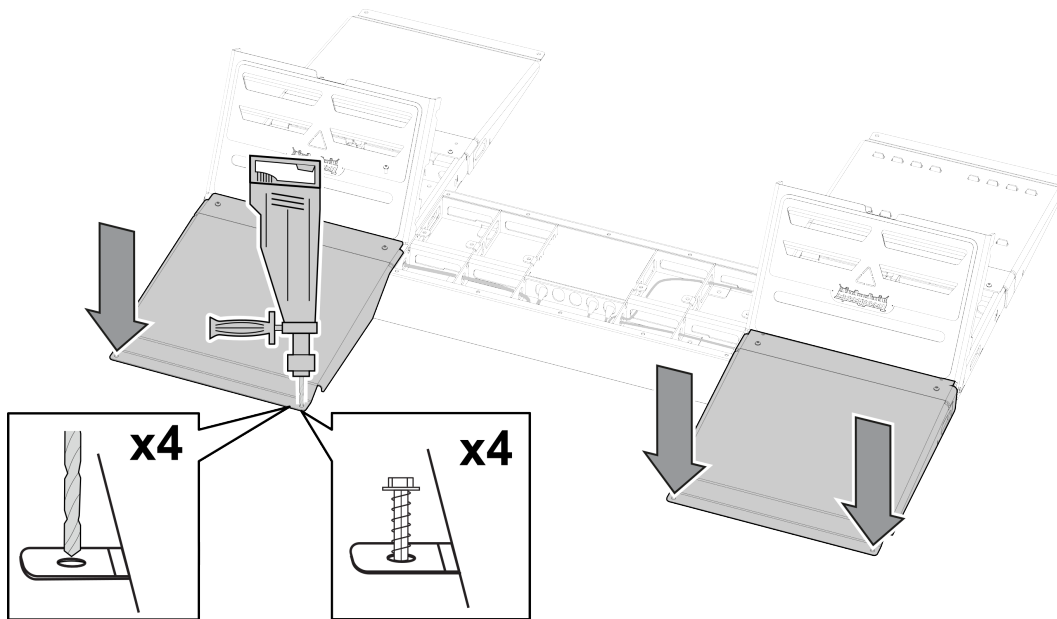


Make sure to use the correct holes, see below figure.



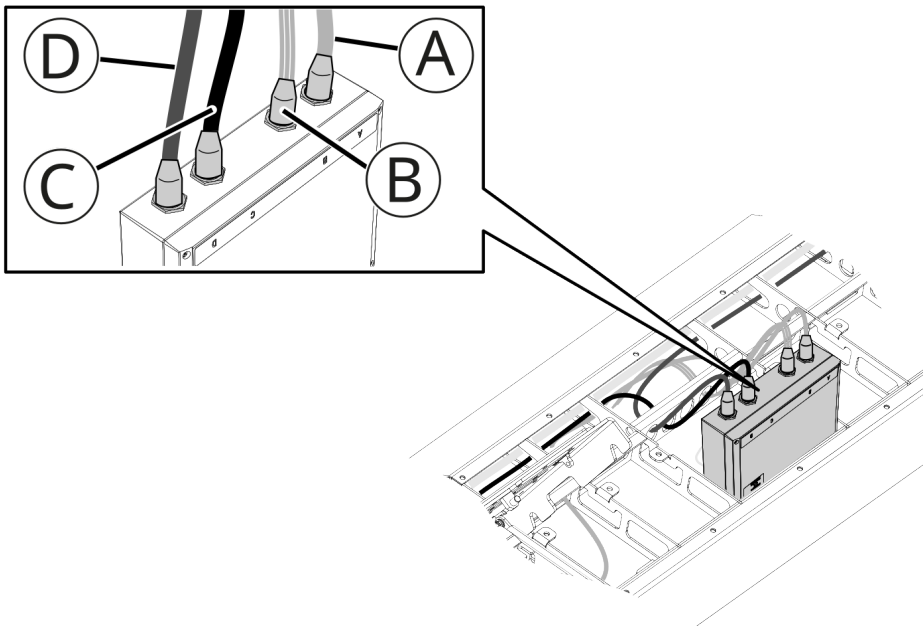
5. Installation

33. Check alignment of the Rear Drive-Up Ramps.
34. Drill two Ø10 mm (3/8 inch) anchor holes with a minimum depth of 110 mm (4 inches) for each side.
35. Clean out the drilled holes and area prior to fitting the screws.
36. Anchor them to the floor using listed fixings, see image below for fixing points.
 - 10 x 100 mm Hex Head Concrete Screw
 - M12 Washer Form A DIN-125 ZN

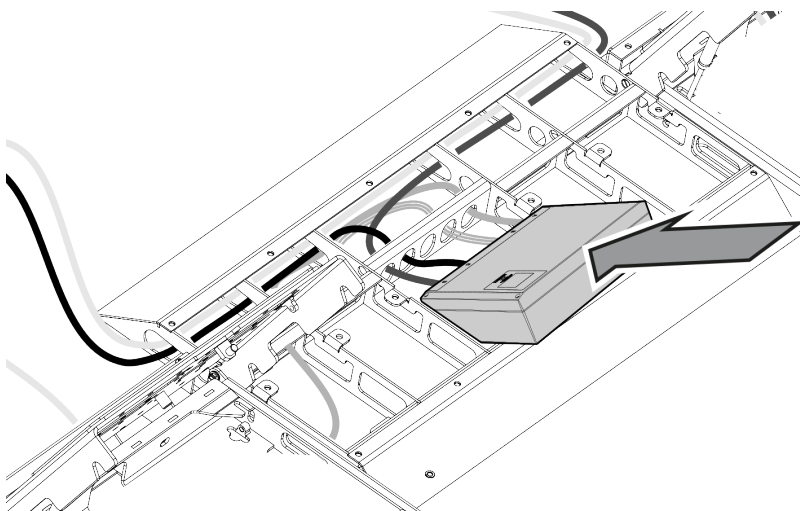


37. Fit the cables to the Trigger Box.

- A = Trigger Ramp Cable
- B = Air Assembly
- C = 10 m Driveover Cable from Electrical Cabinet
- D = 2.5 m Driveover Cable from the Right Sensor



38. Place the Trigger Box into the Centre Ramp.
First locate the notch and push the connector in, then turn to lock.

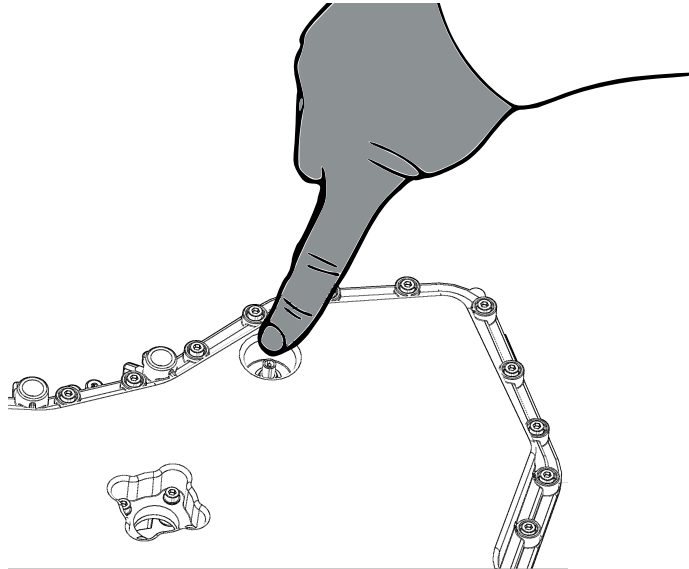


5. Installation

39. Release any pressure build up in the Sensors, by removing the cap and pressing the Schrader valve core located on the bottom of each Sensor. Attach the cap again when operation been performed.



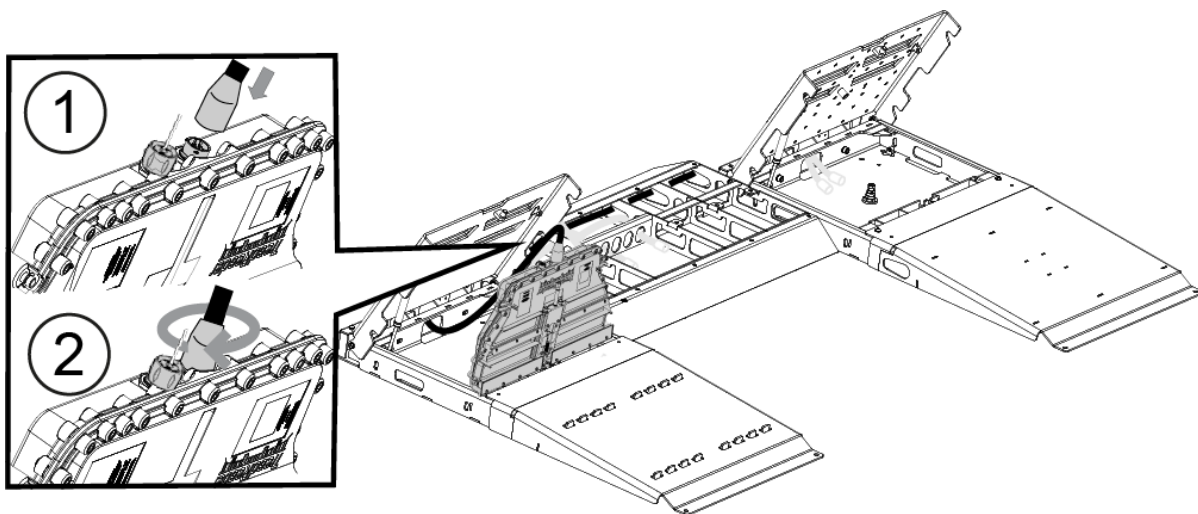
This is a one time procedure during install and does not need to be done on a regular basis.



40. Connect the cable to the **Left Sensor** by locating the notch. Push the connector in, then turn to lock. Make sure to connect:

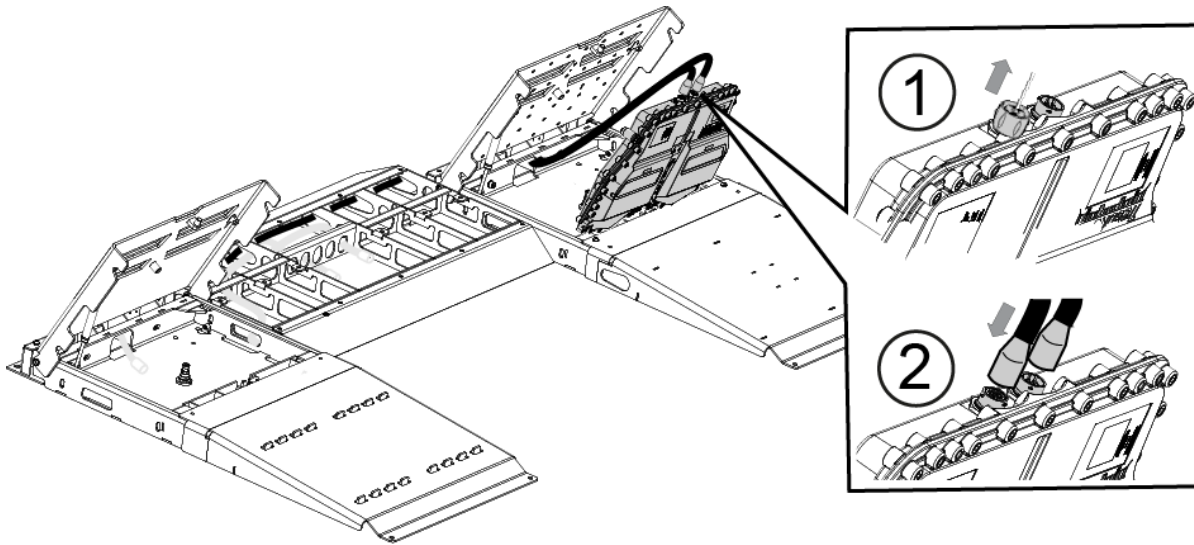
- **Female cable to Male connector.**
- **Male cable to Female connector.**

41. Leave the protective cap on the unused socket.

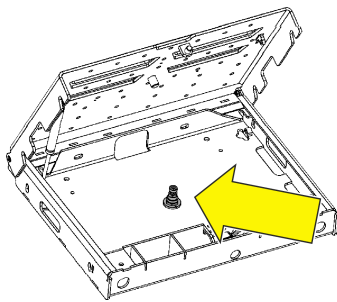


Make sure to place the sensor with the **lowest serial number on the left side** of the **Surface Ramp EMEA** depending on the travel direction.

42. Remove the protective Cap from the **Right Sensor** and place it next to the TriggerBox.
43. Connect the cables to the **Right Sensor** by locating the notches. Push the connectors in, then turn to lock.



44. Attach the Sensor Mid Supports for the Left and Right side.



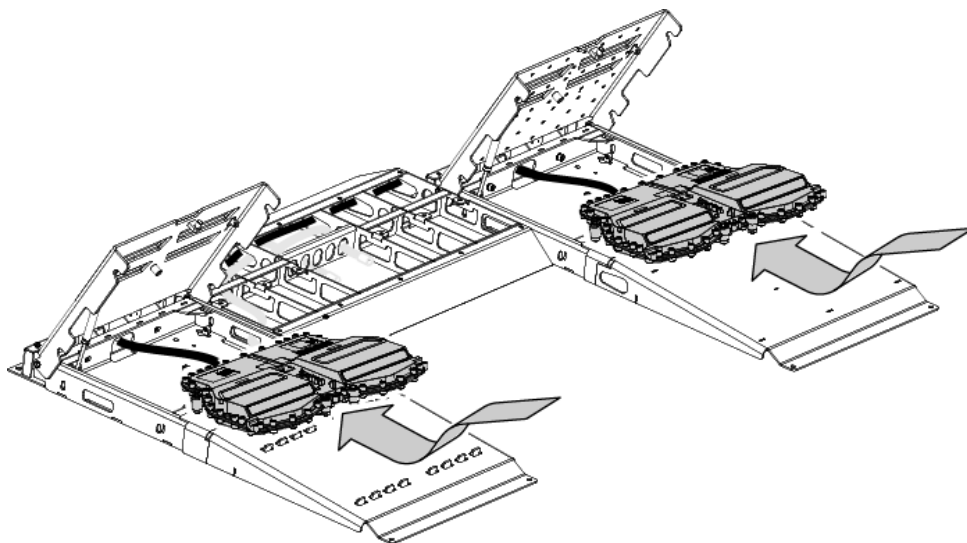
45. Make sure that the Sensor Feet are seated correctly into the mounting holes in the base of the Mid-Sections.



If the Sensor is not seated correctly, the Mid-Section Lid may damage the sensor.

5. Installation

46. Position the Sensors into the Mid-Sections.



47. Make sure the compressed air is turned off and that there is no air left in the system before connecting the Air assembly to the supply.



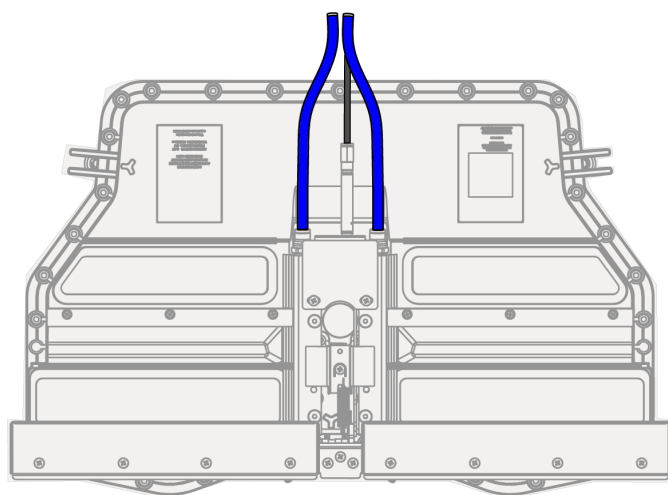
DANGER

Risk of permanent injury or death

Misuse of compressed air is highly dangerous and may cause permanent injury or death. Appropriate PPE (Personal Protective Equipment) like safety glasses, gloves and hearing protection must be worn when connecting and servicing the compressed air supply.

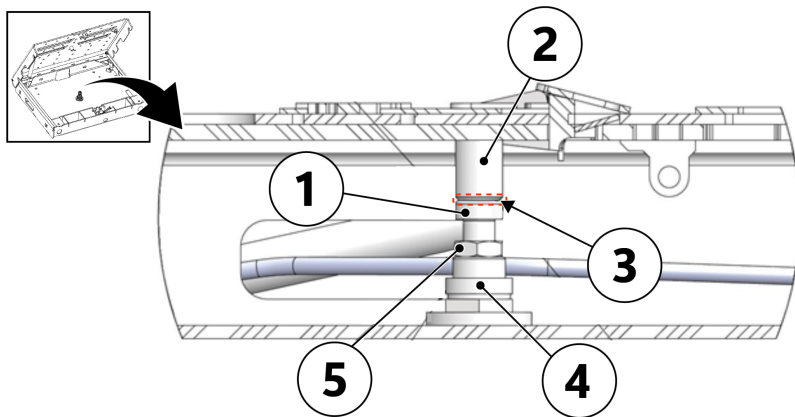
Make sure compressed air is turned off and no air left in the system before starting any work. Wear Safety Glasses, Gloves and Hearing Protection.

48. Connect the Air hoses to the Left and Right Sensor.



Make sure all Air hoses are correctly connected before turning the Compressed Air supply on.

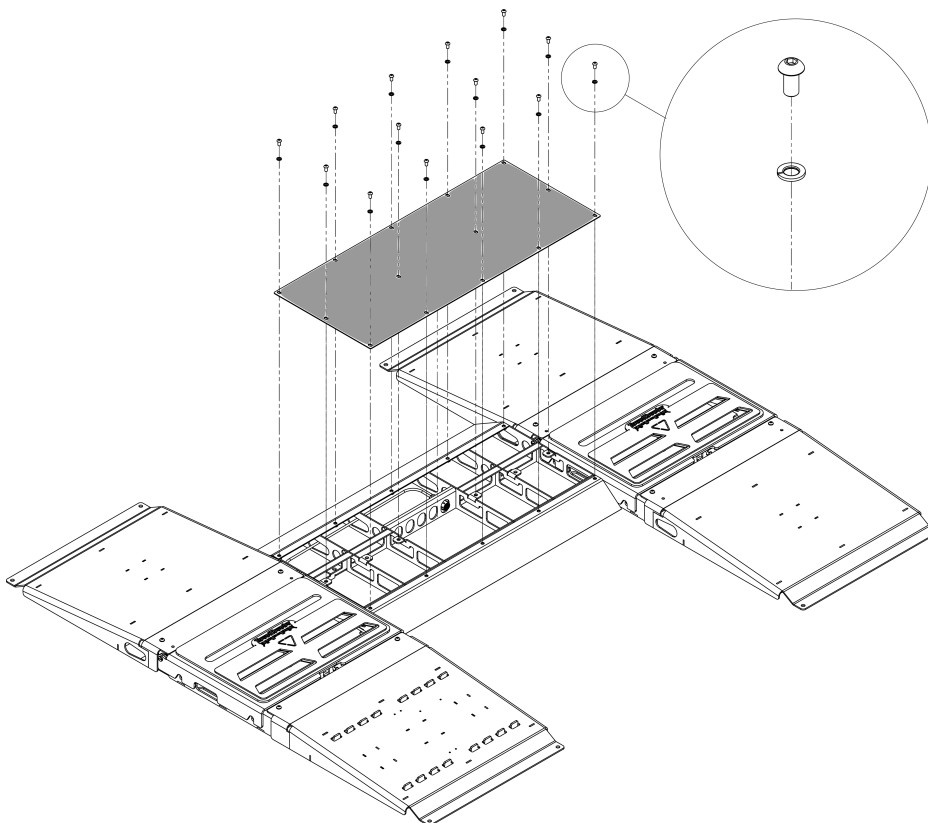
49. Check that the Sensor Mid Supports are not too high, blocking the Mid-Section Lid from sitting flat against the chassis. Adjust if required.



1	Height Adjustment Screw	4	Position the Hex Part so that it fits within the Hex opening in the base.
2	Fixed Boss (part of the Top Cover Assembly)	5	Tighten the Lock Nut once the correct height is set.
3	Adjust the Screw Height until it touches the bottom of the Fixed Boss when the Cover is closed.		

50. Fit the Centre Ramp Top Cover using listed fixings.

- 14 x M8 x 16 mm Socket Button Head Screws Steel Zinc Plated
- 14 x Washers Curved Spring DIN 128 M8 x 14.8 x 8.1 mm Steel Zinc Plated.



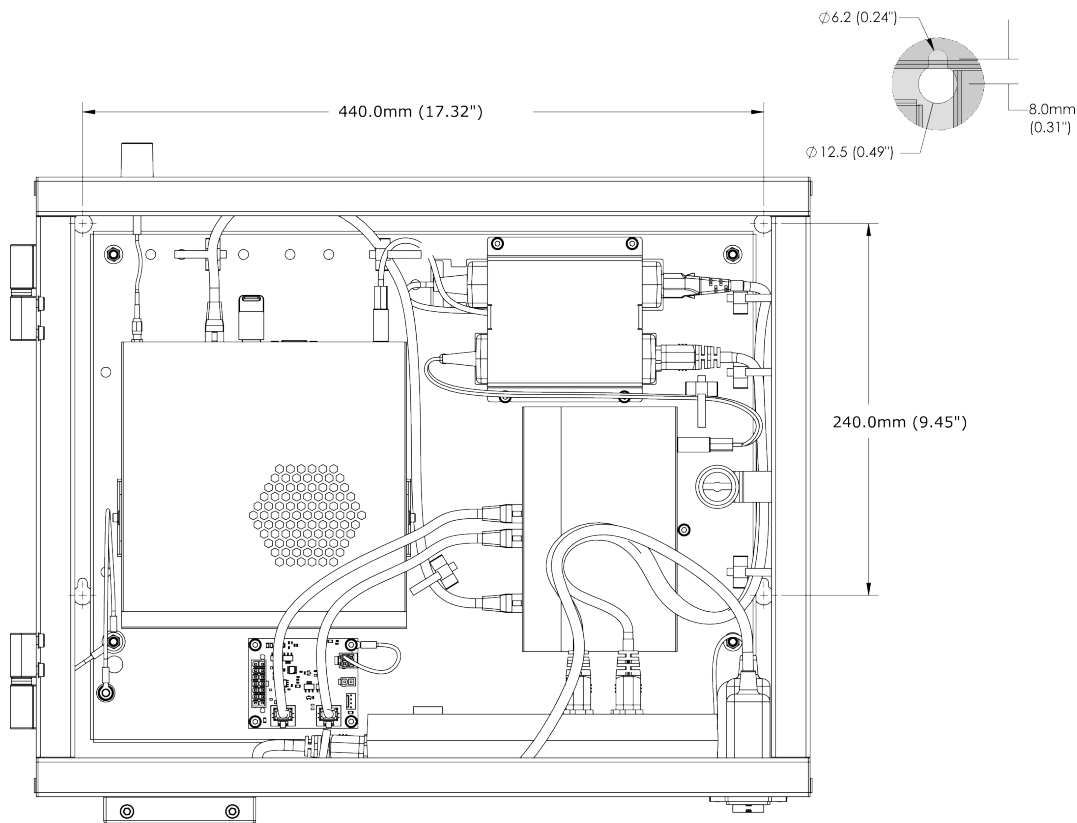
5.4. Mounting of the Electrical Cabinet

The Electrical Cabinet needs to be mounted on a maximum radius of **6 m (~ 20 ft)** from the edge of the ramp. This is applicable when using the supplied **10 m (~ 33 ft)** DriveOver cable.

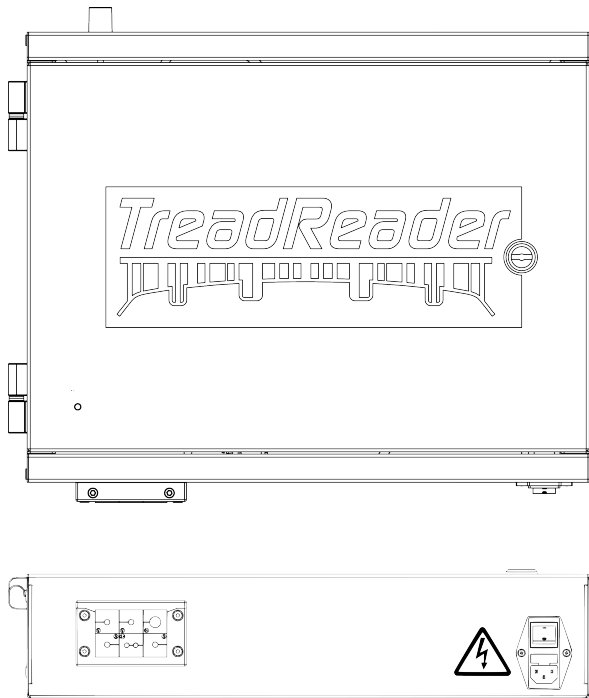


The Electrical Cabinet is only supplied with one key.

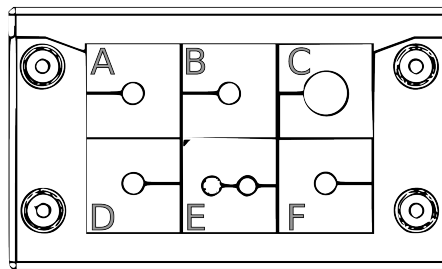
1. Fit the Electrical Cabinet to the wall with fixings that have a head diameter of **MAX 11 mm (7/16 inch)** and be no smaller than an **M5 (13/64 inch)**.



2. Feed the cables through the correct cable entry gland to obtain and maintain strain relief.



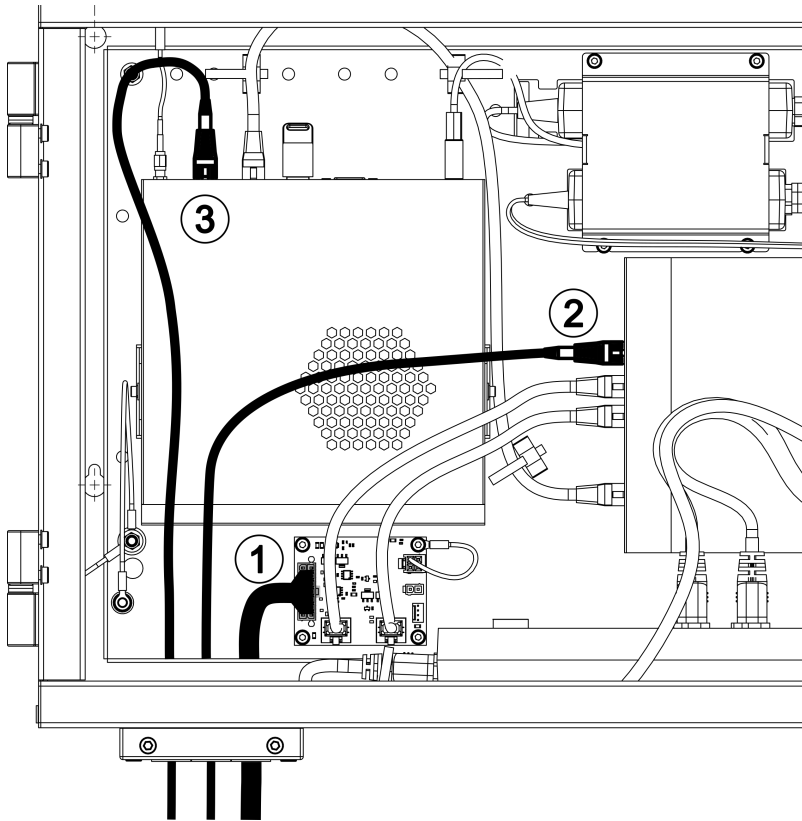
- A= Customer Network (Ethernet)
- B= ALPR Camera (Ethernet)
- C= 10m, 20m DriveOver Cable
- D= Monitor
- E= Keyboard and Mouse
- F=Spare



5. Installation

3. Cable Connections inside the Electrical Cabinet:

- Connect the **Ramp** DriveOver cable (1) to the Connector on the PCB.
- Connect the **ALPR Camera** cable (2) to Port 1 of the Ethernet switch.
- Connect the **Customer Network** cable (3) to the empty Ethernet port on the back of the PC.
- Connect the **Mouse, Keyboard and monitor** (HDMI) cables as required to the PC.

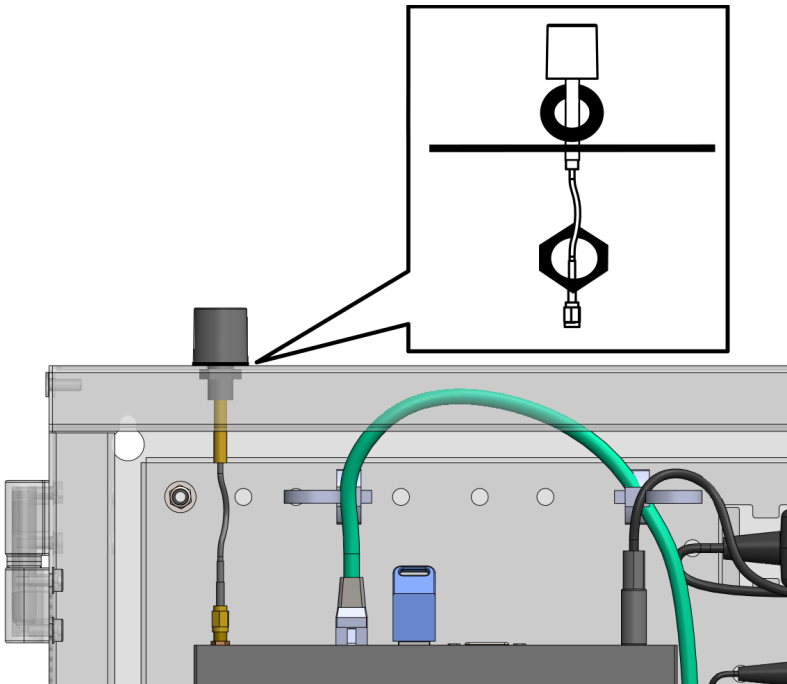


4. Fit the Antenna to the Electrical Cabinet.

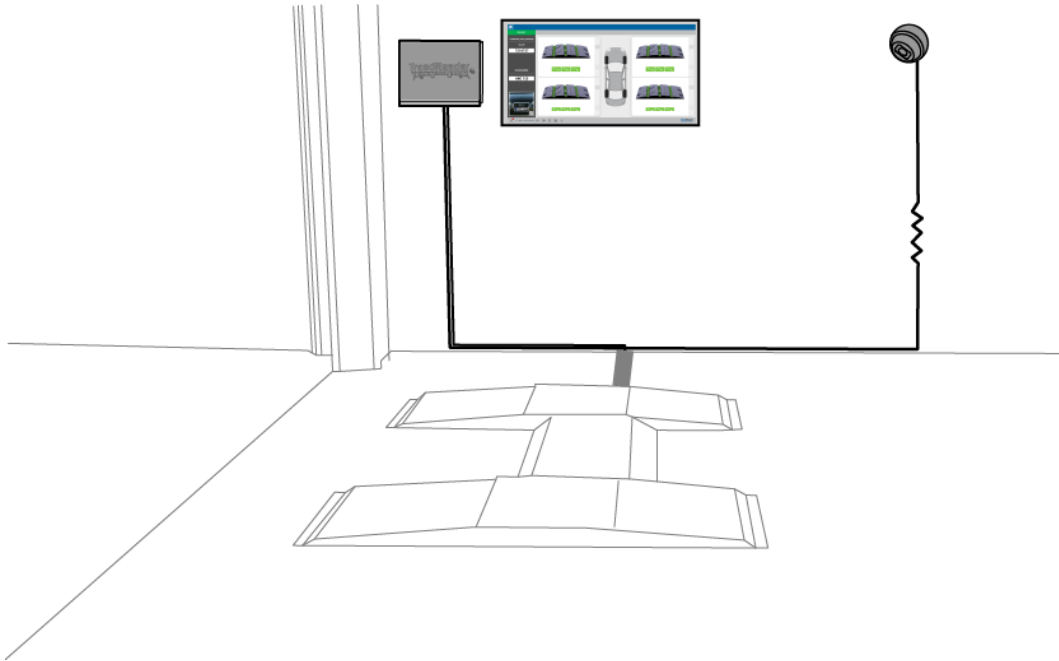
- Feed the antenna cable through the rubber washer.
- Feed the antenna through the top hole of the cabinet.
- Feed the antenna cable through the plastic nut.
- Connect and tighten the antenna to the back of the PC.
- Secure the antenna to the cabinet by tightening the plastic nut.



Carefully tighten the plastic nut, otherwise there is a high risk of stripping the plastic threads.



5.5. Finalize the Installation



Typical Installation showing the **DriveOver Surface Ramp EMEA EETD915AEA**

1. Attach the Monitor to the wall using a Monitor bracket.
2. Connect the Monitor Power Cable to the power strip inside the Electrical Cabinet.
3. Connect the HDMI cable to the Monitor and to the most right port of PC in the cabinet.
4. Mount the Cable Protection Profile (*Floor Line Cover*) to protect the Driveover Cable.



To commission this equipment, read the Operation Manual.





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