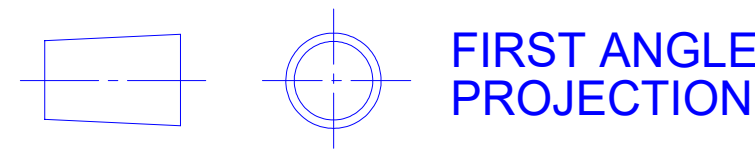


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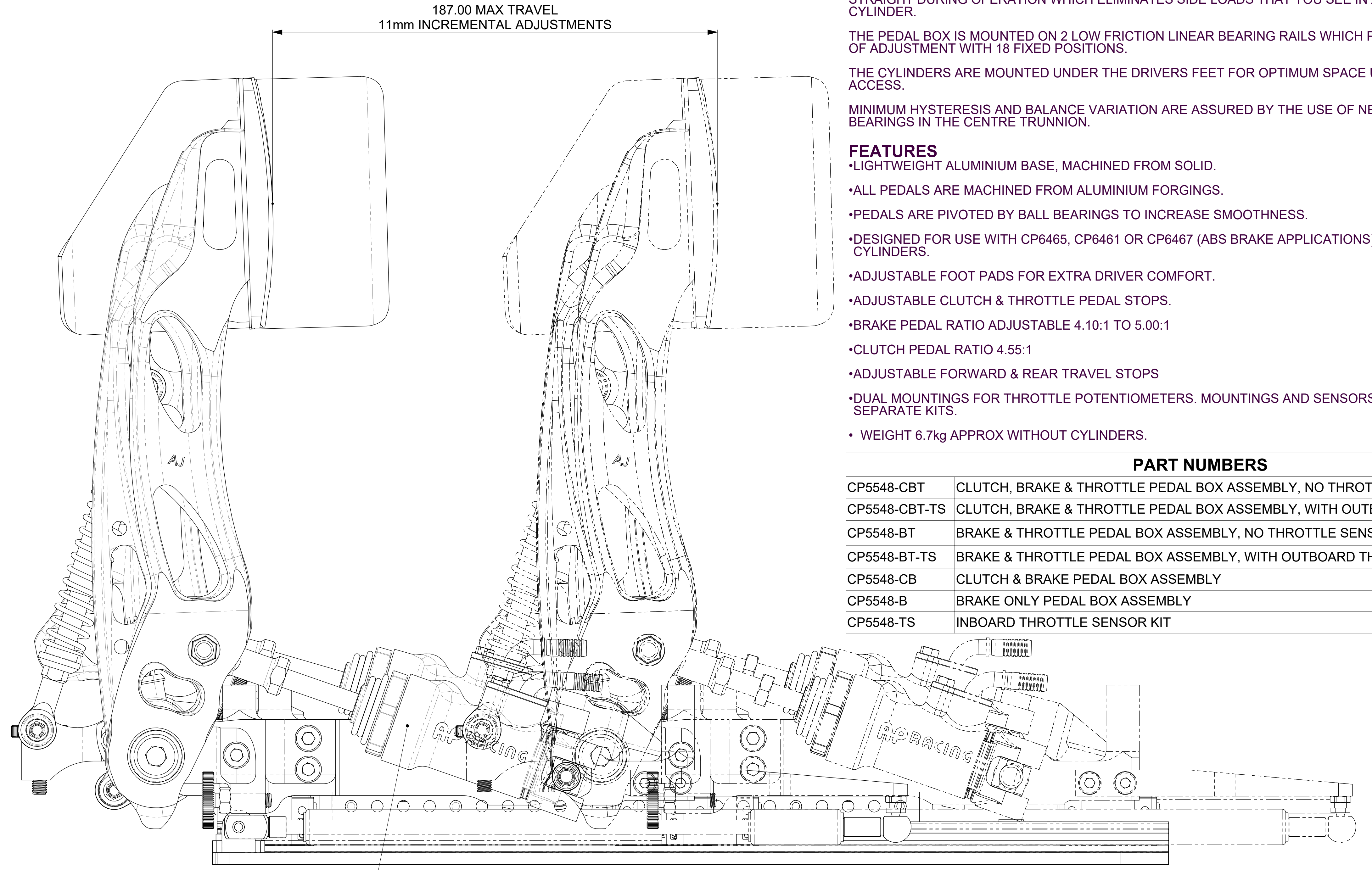
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Issue No.	Date & No.	Alterations Particulars	Zone	Initials
1A	10/03/20 B8103	FIRST ISSUE	#	SGW



**GENERAL DESCRIPTION**  
THIS UNIQUE PULL TYPE DESIGN ALLOWS THE LOAD THROUGH THE CYLINDERS TO REMAIN STRAIGHT DURING OPERATION WHICH ELIMINATES SIDE LOADS THAT YOU SEE IN A PUSH TYPE CYLINDER.

THE PEDAL BOX IS MOUNTED ON 2 LOW FRICTION LINEAR BEARING RAILS WHICH PROVIDE 187mm OF ADJUSTMENT WITH 18 FIXED POSITIONS.

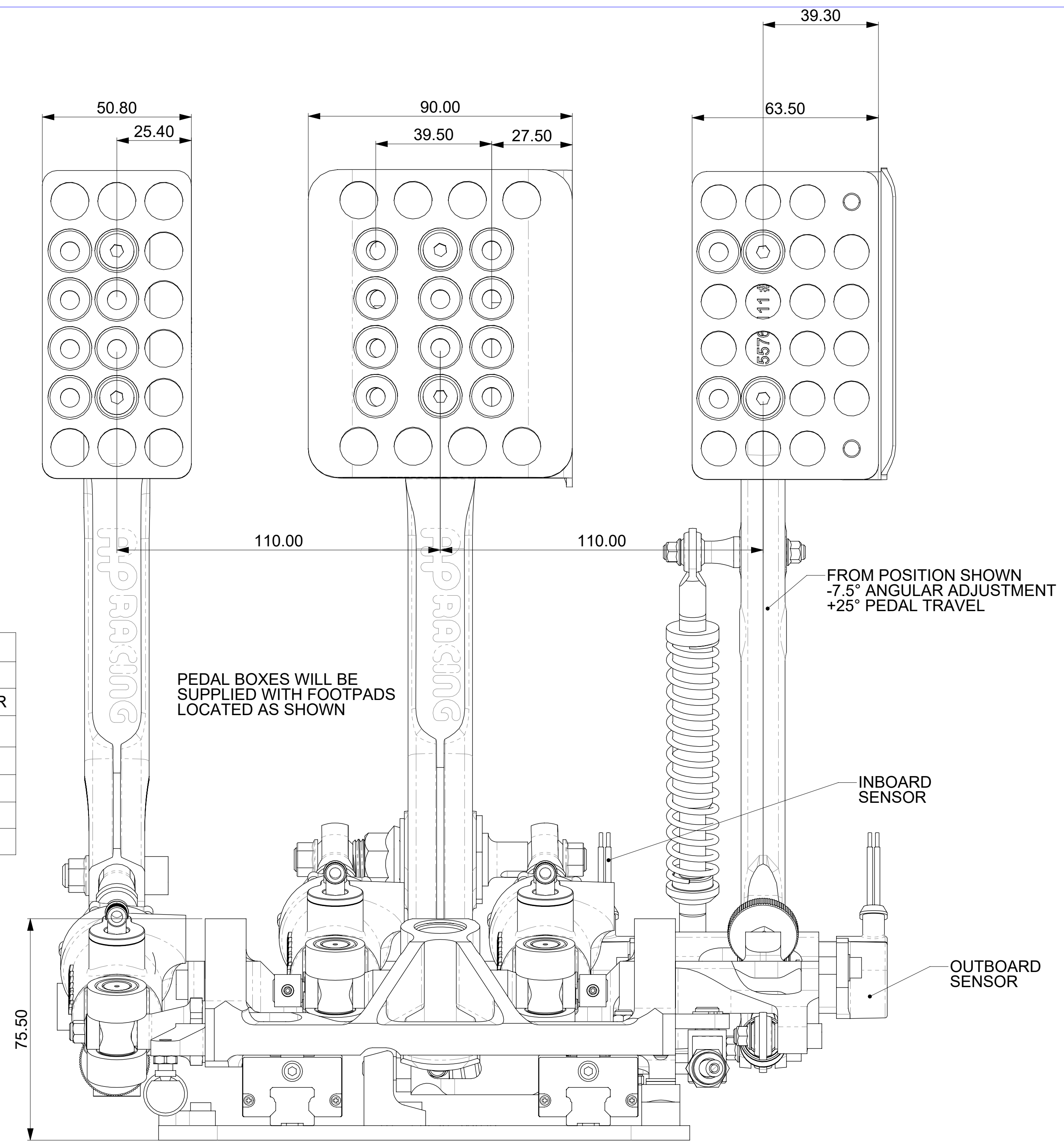
THE CYLINDERS ARE MOUNTED UNDER THE DRIVERS FEET FOR OPTIMUM SPACE UTILISATION AND ACCESS.

MINIMUM HYSTERESIS AND BALANCE VARIATION ARE ASSURED BY THE USE OF NEEDLE ROLLER BEARINGS IN THE CENTRE TRUNNION.

**FEATURES**

- LIGHTWEIGHT ALUMINIUM BASE, MACHINED FROM SOLID.
- ALL PEDALS ARE MACHINED FROM ALUMINIUM FORGINGS.
- PEDALS ARE PIVOTED BY BALL BEARINGS TO INCREASE SMOOTHNESS.
- DESIGNED FOR USE WITH CP6465, CP6461 OR CP6467 (ABS BRAKE APPLICATIONS) MASTER CYLINDERS.
- ADJUSTABLE FOOT PADS FOR EXTRA DRIVER COMFORT.
- ADJUSTABLE CLUTCH & THROTTLE PEDAL STOPS.
- BRAKE PEDAL RATIO ADJUSTABLE 4.10:1 TO 5.00:1
- CLUTCH PEDAL RATIO 4.55:1
- ADJUSTABLE FORWARD & REAR TRAVEL STOPS
- DUAL MOUNTINGS FOR THROTTLE POTENTIOMETERS. MOUNTINGS AND SENSORS AVAILABLE IN SEPARATE KITS.
- WEIGHT 6.7kg APPROX WITHOUT CYLINDERS.

PART NUMBERS	
CP5548-CBT	CLUTCH, BRAKE & THROTTLE PEDAL BOX ASSEMBLY, NO THROTTLE SENSORS
CP5548-CBT-TS	CLUTCH, BRAKE & THROTTLE PEDAL BOX ASSEMBLY, WITH OUTBOARD THROTTLE SENSOR
CP5548-BT	BRAKE & THROTTLE PEDAL BOX ASSEMBLY, NO THROTTLE SENSORS
CP5548-BT-TS	BRAKE & THROTTLE PEDAL BOX ASSEMBLY, WITH OUTBOARD THROTTLE SENSOR
CP5548-CB	CLUTCH & BRAKE PEDAL BOX ASSEMBLY
CP5548-B	BRAKE ONLY PEDAL BOX ASSEMBLY
CP5548-TS	INBOARD THROTTLE SENSOR KIT



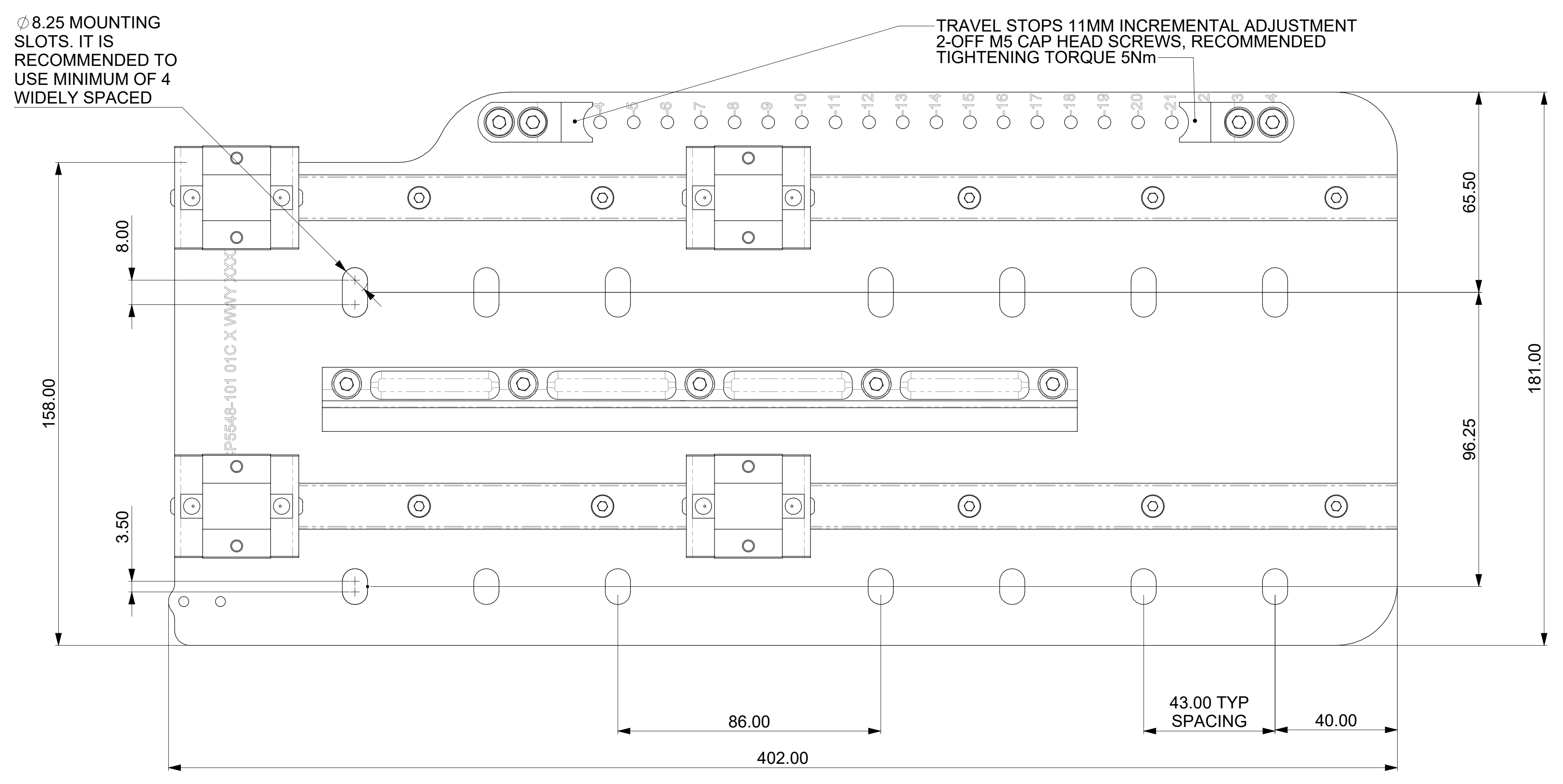
PEDAL BOX IS DESIGNED TO SUIT CP6465 OR CP6467 (ABS BRAKE APPLICATIONS) HIGH EFFICIENCY MASTER CYLINDERS. FEATURES INCLUDE:

- BUILT IN LOW FRICTION CLEVIS (CP6465 & CP6467)
- SPECIAL INLET TO ALLOW LOW FITTING
- M10 x 1.0 OUTLET PORT SET AT 90deg.
- 25.4mm OF STROKE

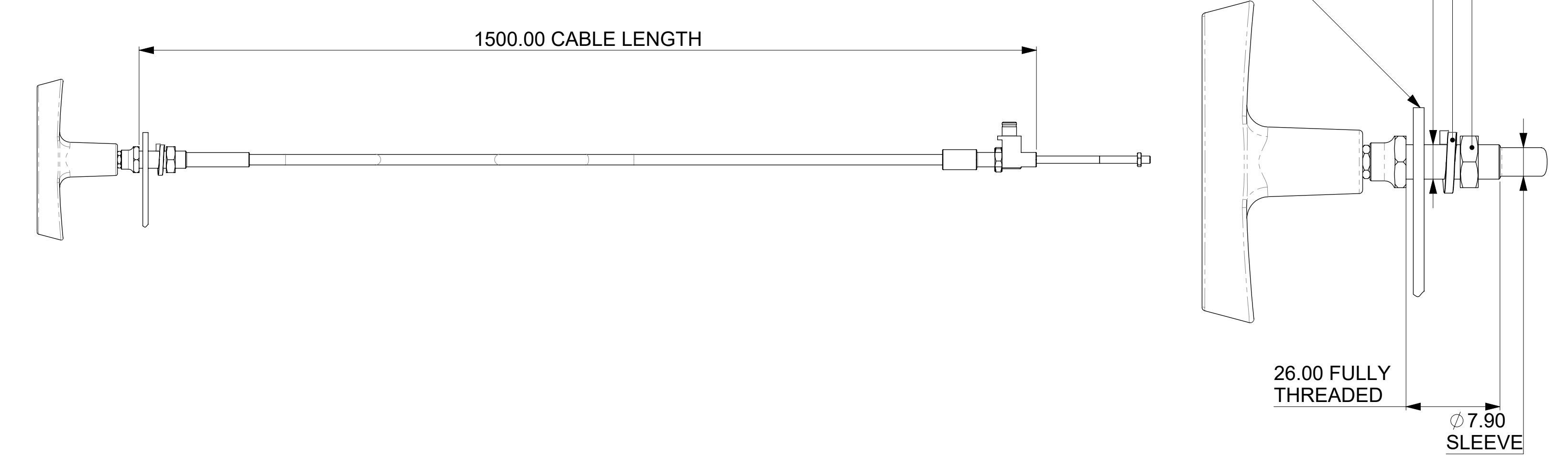
**MASTER CYLINDERS ARE NOT SUPPLIED WITH THIS PEDAL BOX**

FOR INFORMATION ON CYLINDER SIZES PLEASE CONTACT AP RACING OR OBTAIN CP6465-1CD OR CP6467-1CD & CP6468-1CD.

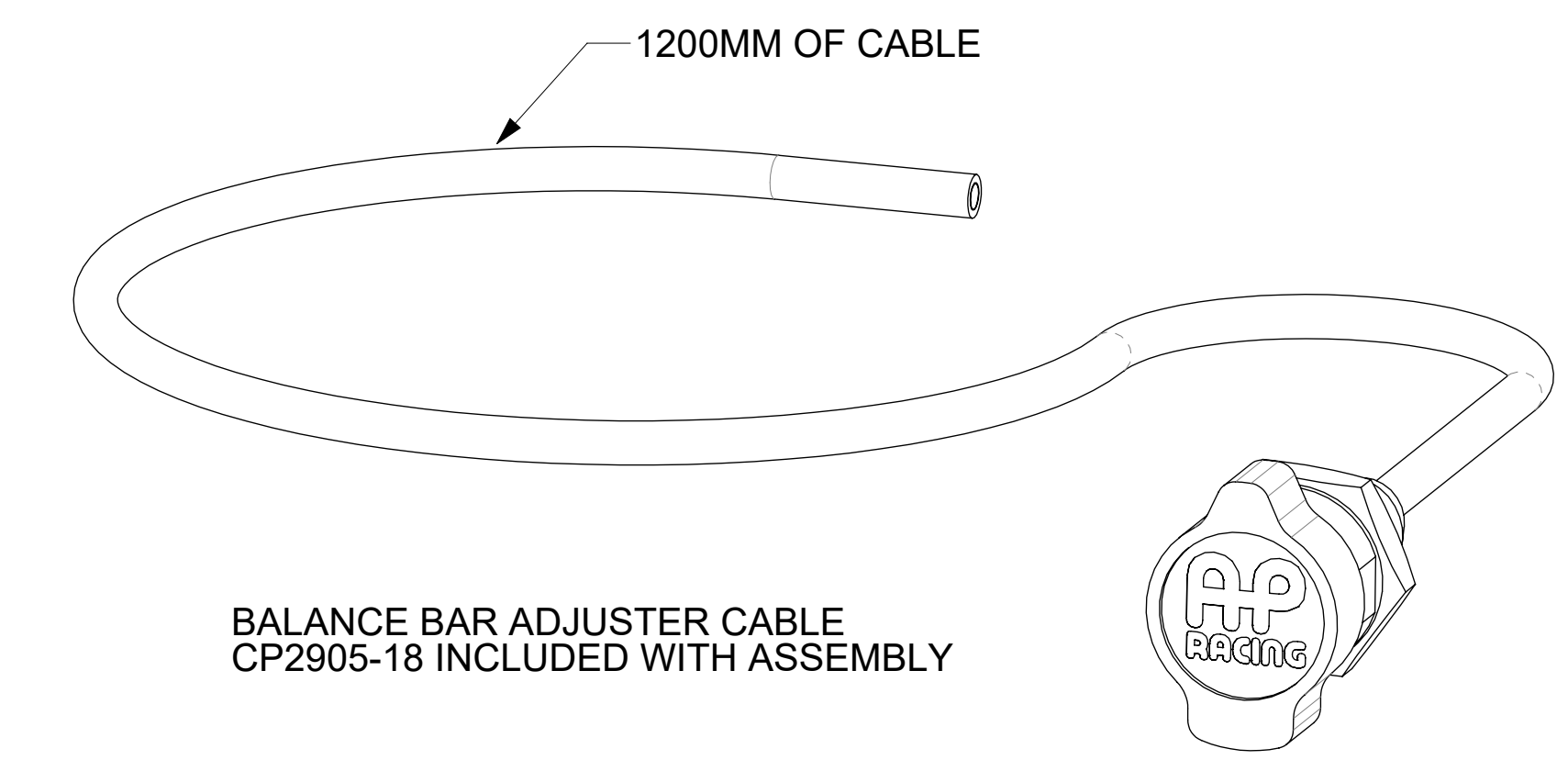
## MOUNTING TRAY DETAIL



## RELEASE CABLE DETAIL



## BALANCE BAR ADJUSTMENT CABLE DETAIL



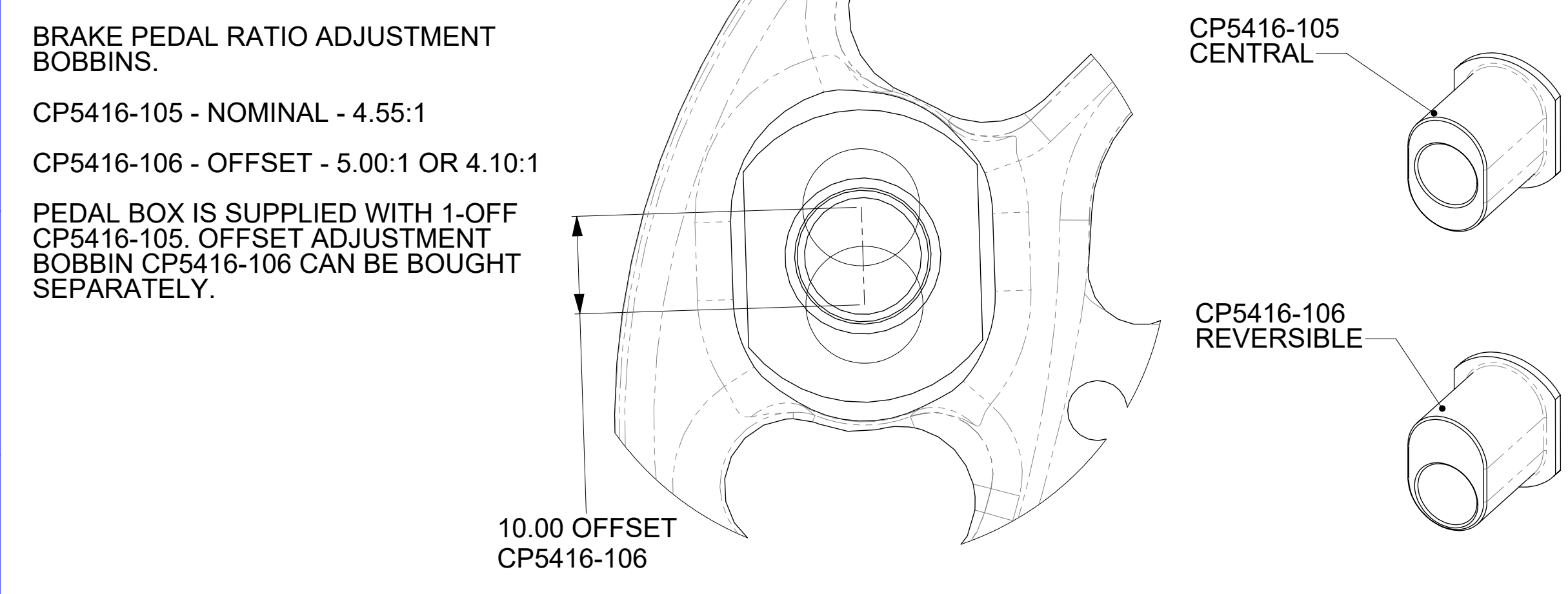
SCALE 1:1	SHEET 1 OF 7
DRAWN	Sten Wahlstrom
APPROVED	
DERIVED FROM	
<b>TITLE</b>	
FLOOR MTG PULL TYPE SLIDING PEDAL BOX 2nd GEN	
DRG NO.	CP5548-1CD

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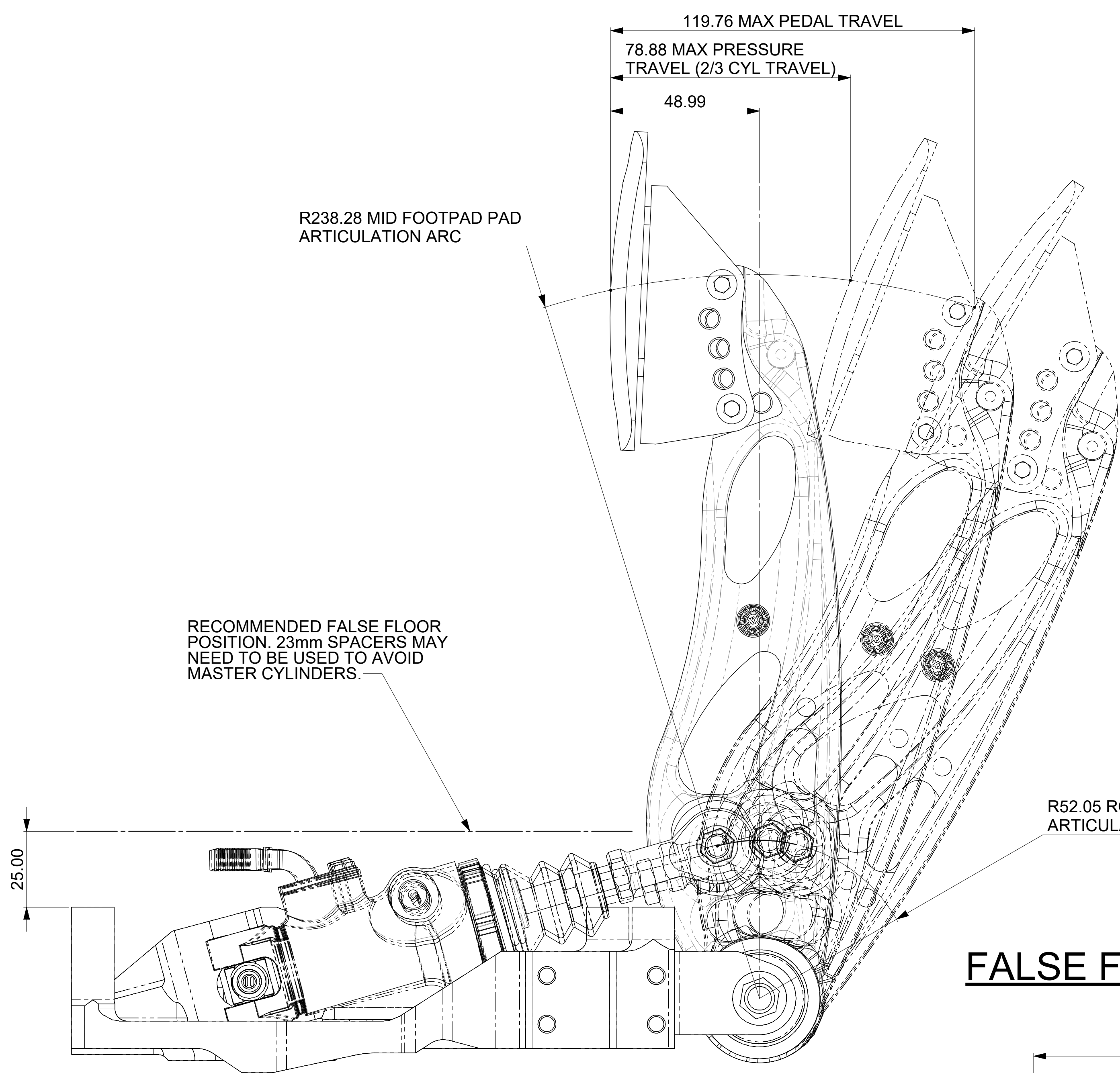
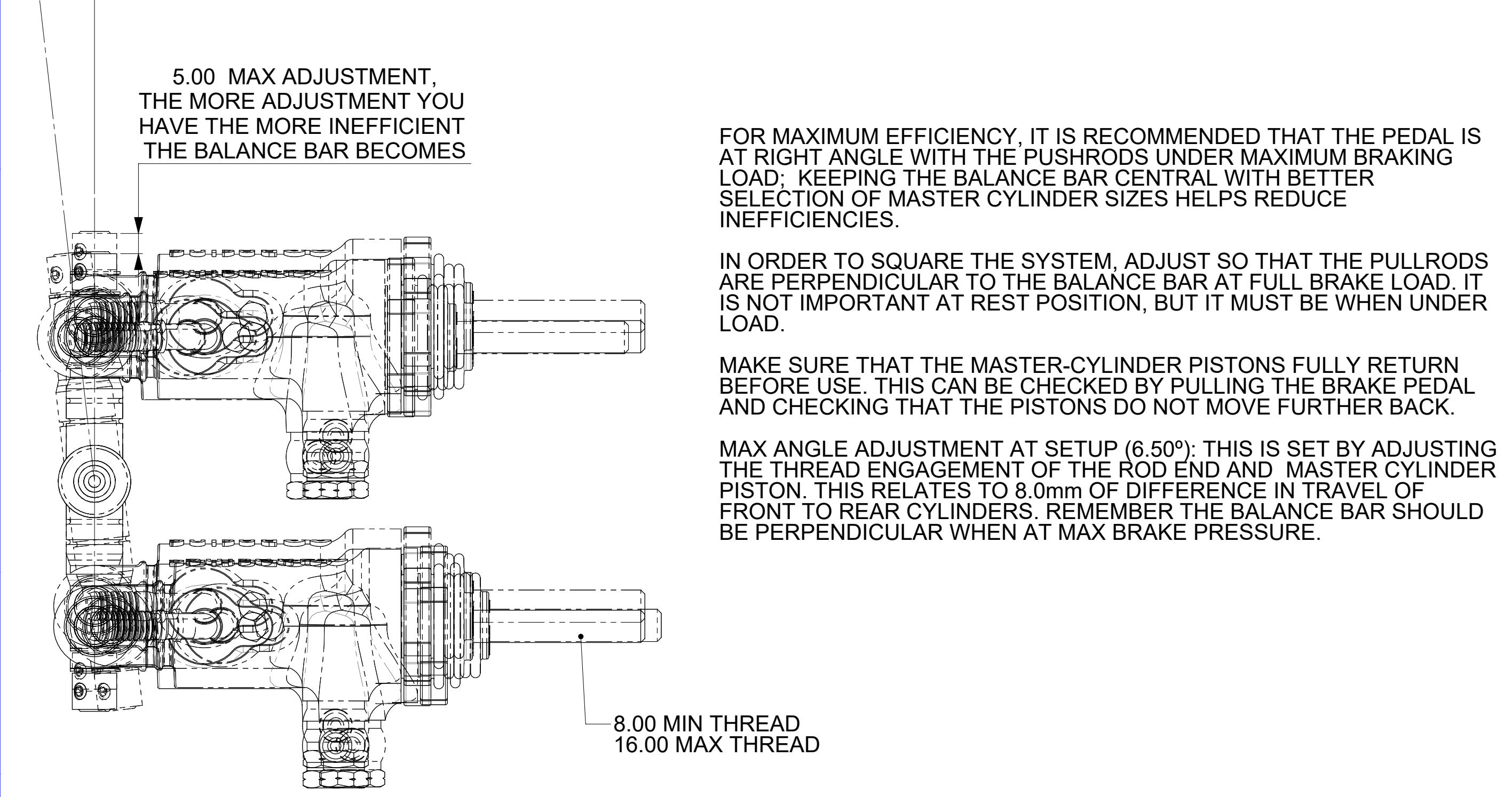
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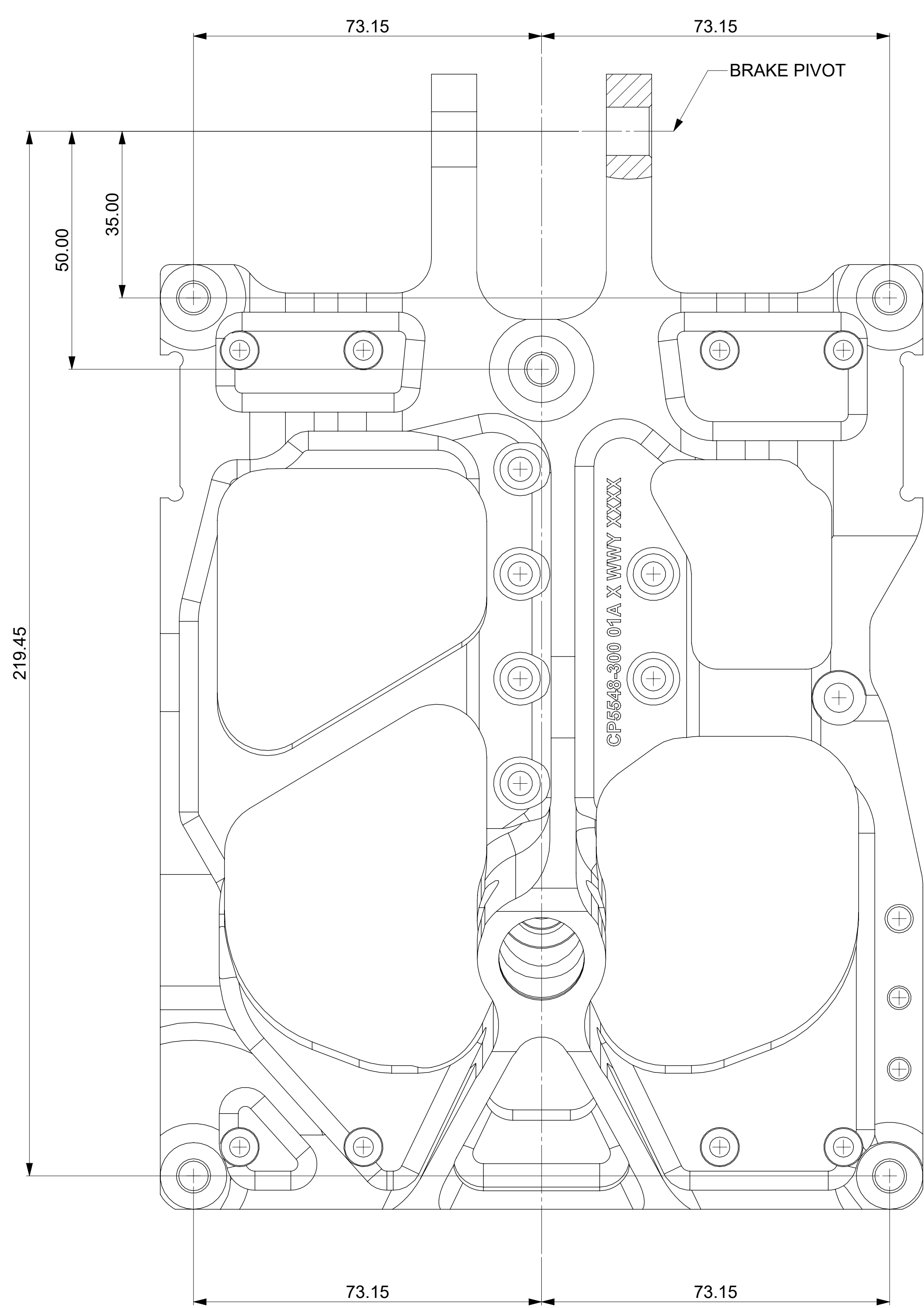
**BRAKE RATIO ADJUSTMENT DETAILS**



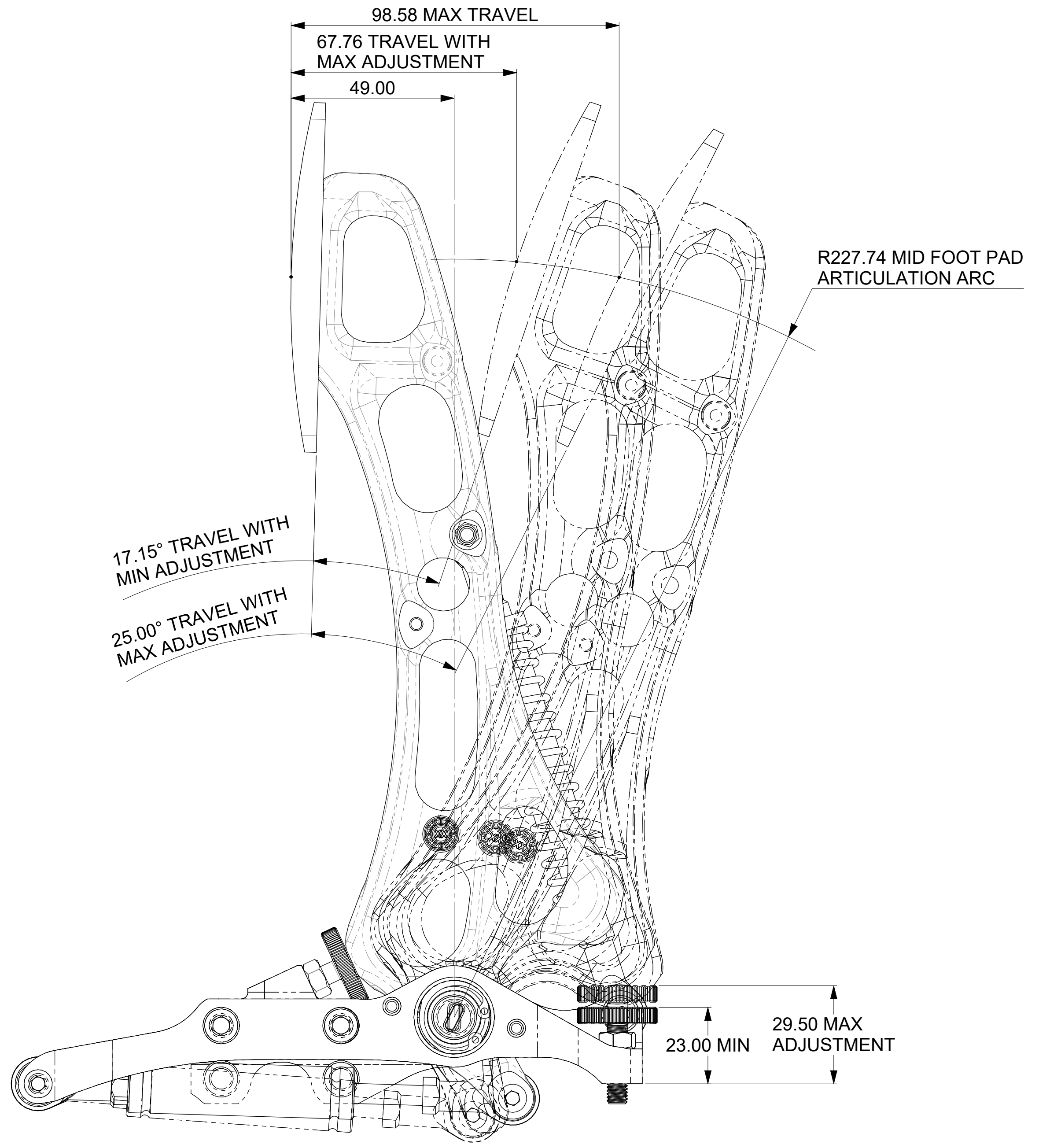
**SETTING UP THE BALANCE BAR**



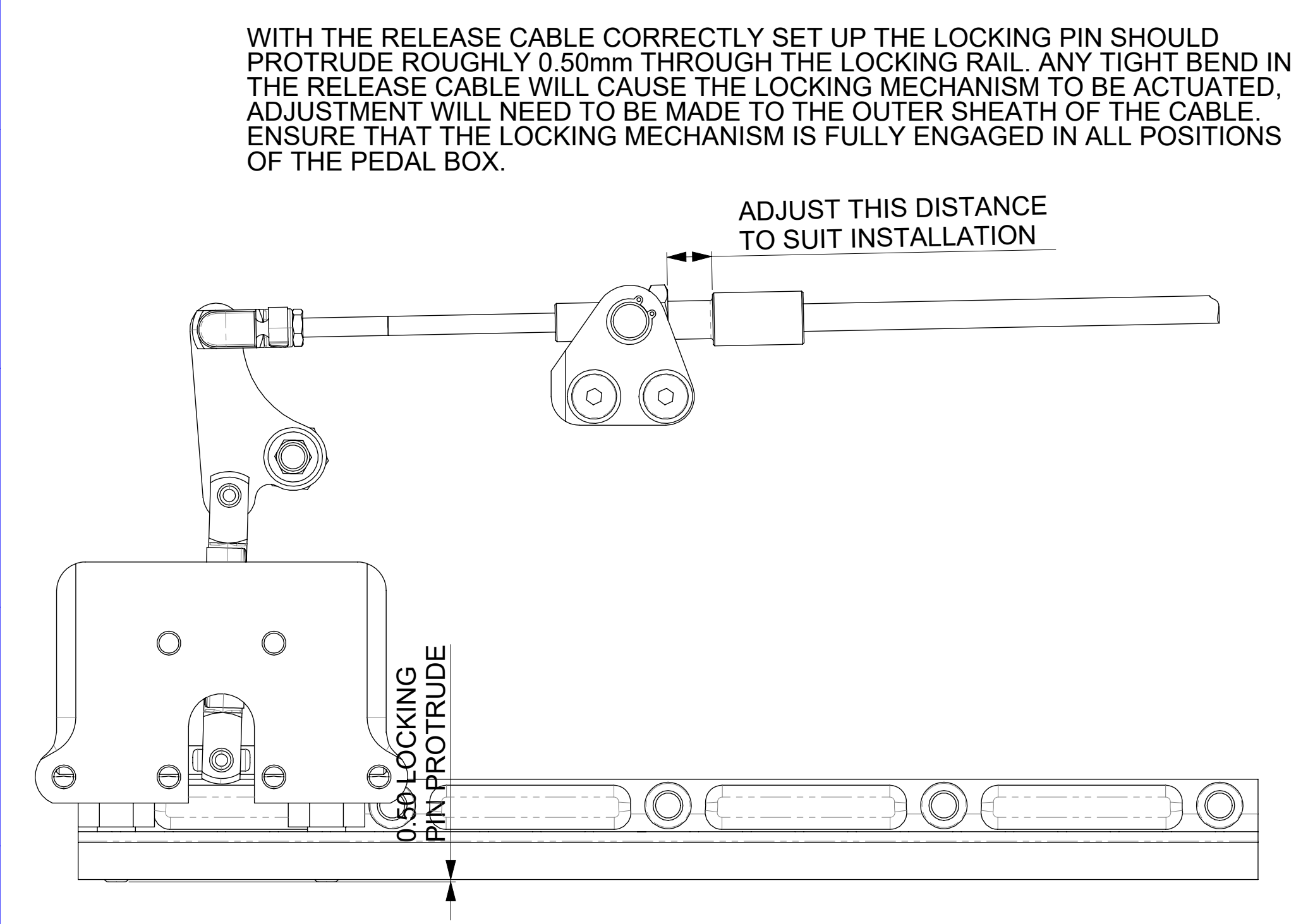
**FALSE FLOOR MOUNTING LOCATIONS**



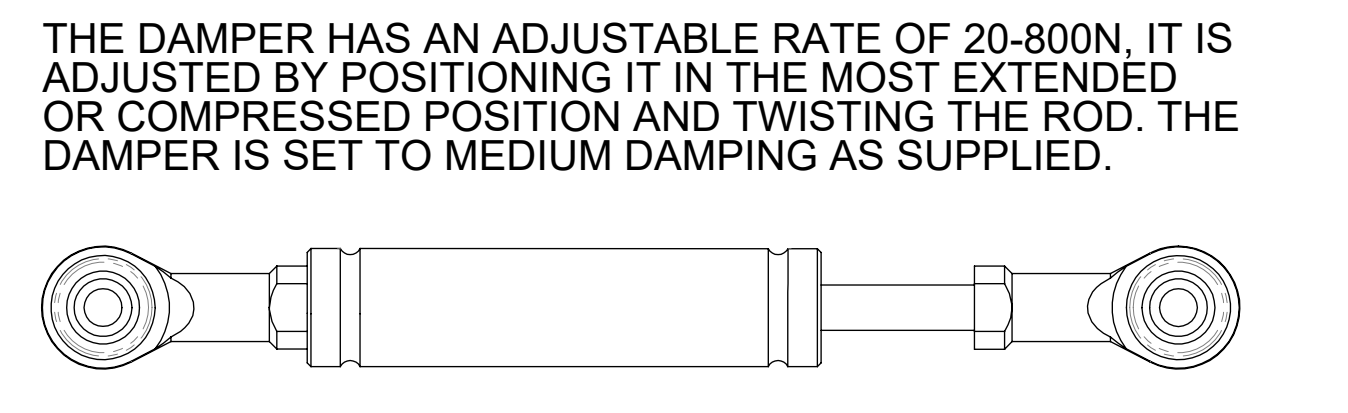
**THROTTLE PEDAL TRAVEL**



**SETTING UP THE RELEASE CABLE**



**HYDRAULIC DAMPER ADJUSTMENT**



Issue No.	Date & No.	Particulars	Zone	Initials
-	-	SEE SHEET 1 FOR ISSUE INFORMATION.	-	-

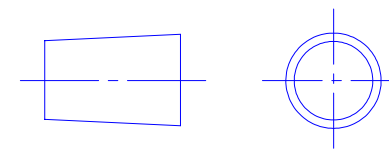
  

Alterations	
Date & No.	Particulars
-	-

SCALE 1:1	SHEET 2 OF 7
DRAWN	Sten Wahlstrom
APPROVED	
DERIVED FROM	CP5538-9m
TITLE	
FLOOR MTG PULL TYPE	
SLIDING PEDAL BOX 2nd GEN	
DRG NO.	CP5548-1CD

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FIRST ANGLE PROJECTION

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## THROTTLE SENSOR DETAIL

DUAL REDUNDANCY PENNY & GILES SRH302 SENSOR

### Electrical

Measurement range	20-360° in 1° increments
Supply voltage	5Vdc +/-0.5Vdc and 9-30Vdc - auto selects
Supply current	<17.5mA per output channel
Supply reverse polarity protection	Yes
Short-circuit protection to GND	Yes
Short-circuit protection to supply	Only with 5Vdc regulated supply
Over-voltage protection	Up to 40Vdc
Power-on settlement	>1s
Resolution	12-bit (0.025° of measurement range)
Linearity (absolute)	+0.4%
Temperature coefficient	<30ppm/°C in 5Vdc mode, <110ppm/°C in 9-30Vdc mode

### Voltage Outputs

0.5-4.5V output option (5V supply)	10-90% +/-1% of Vsupply over measurement range
0.5-4.5V output option (9-30V supply)	0.5-4.5V +/-3% absolute
Monotonic range (0.5-4.5V output option)	5%/0.25V to 95%/4.75V nominal
0.2-4.8V output option (5V supply)	4-96% +/-1% of Vsupply over measurement range
0.2-4.8V output option (9-30V supply)	0.2-4.8V +/-3% absolute
Monotonic range (0.2-4.8V output option)	2%/0.1V to 98%/4.9V nominal
Load resistance	10kOHM min. (resistive to GND)
Output noise	<1mV rms
Input/output delay	<2ms

### Mechanical

Mechanical angle	360° continuous
Operating speed, MAX	3600°/S
Torque	120 gm cm max
Weight	<70g
Mounting	2x holes to suit M4 screws tightened to 2.9Nm
Cable	18AWG 1.65mm OD

### Environmental

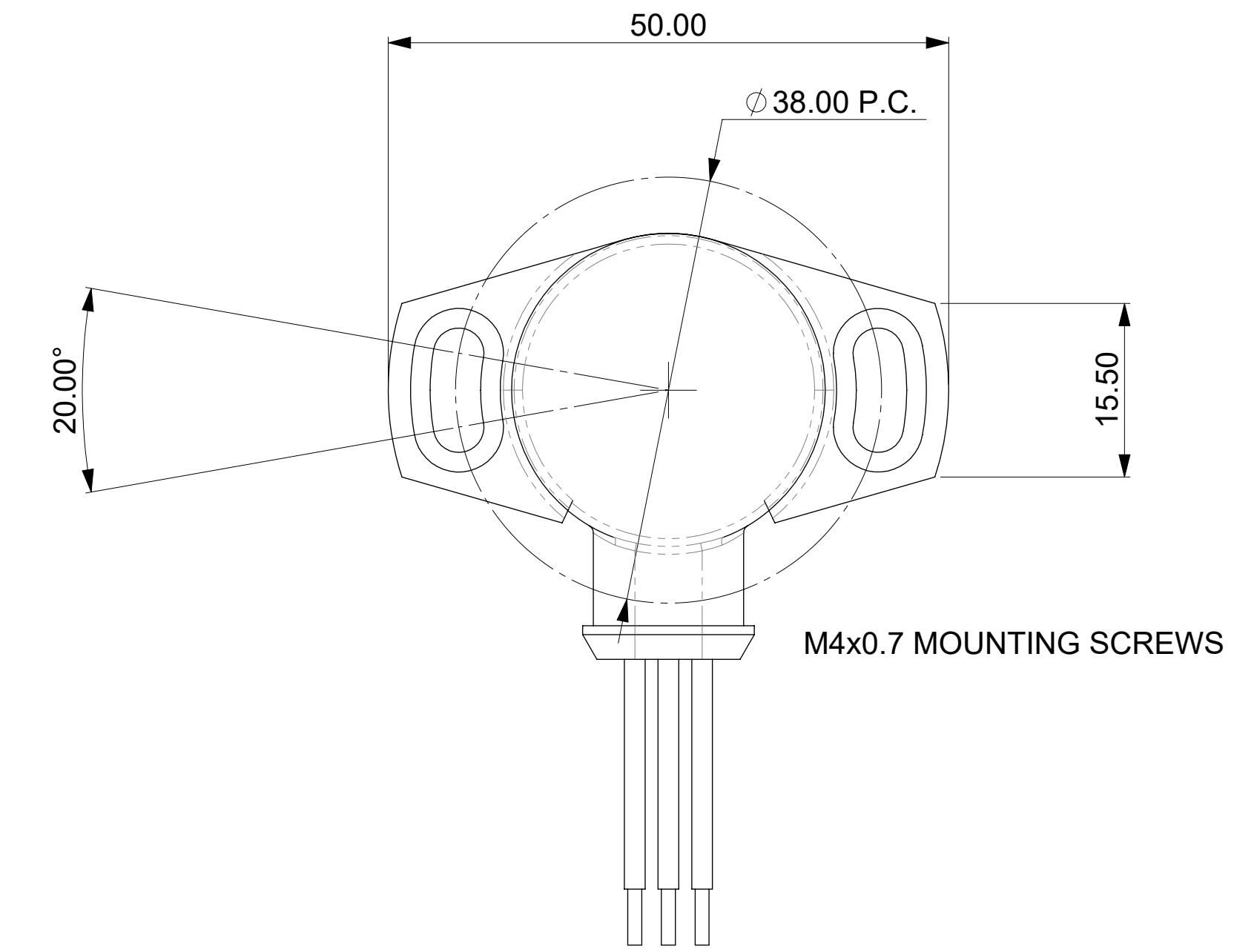
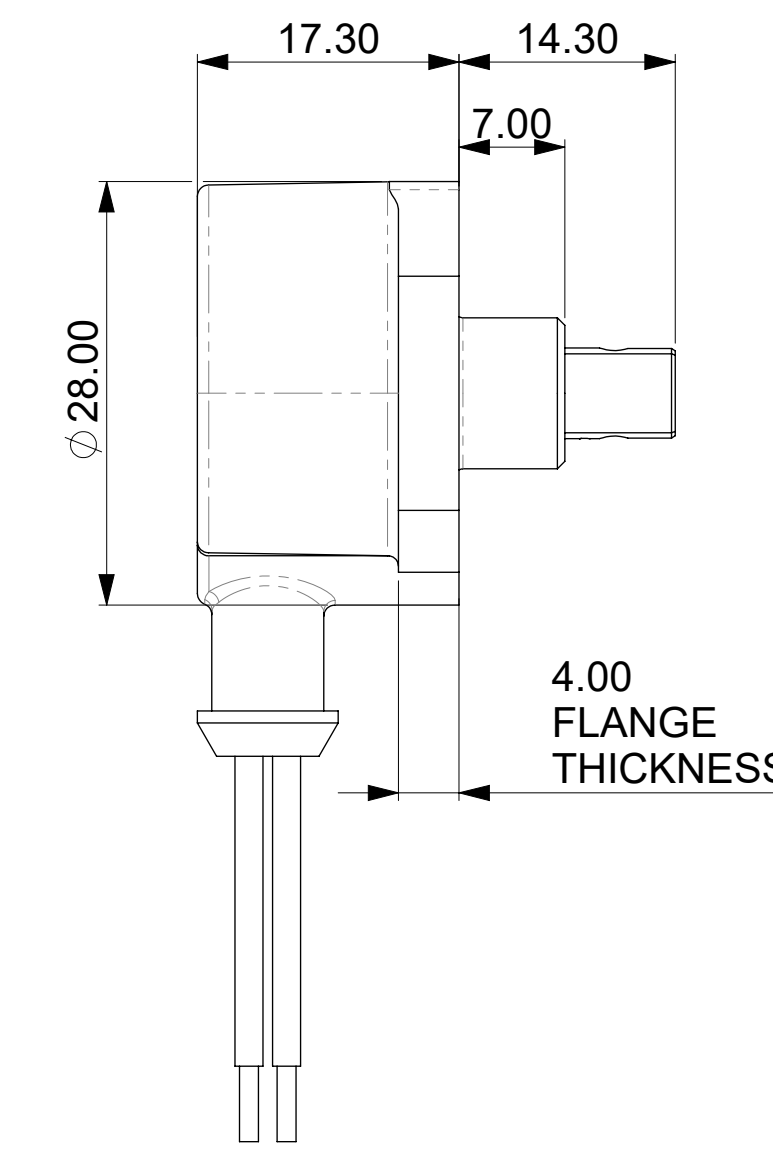
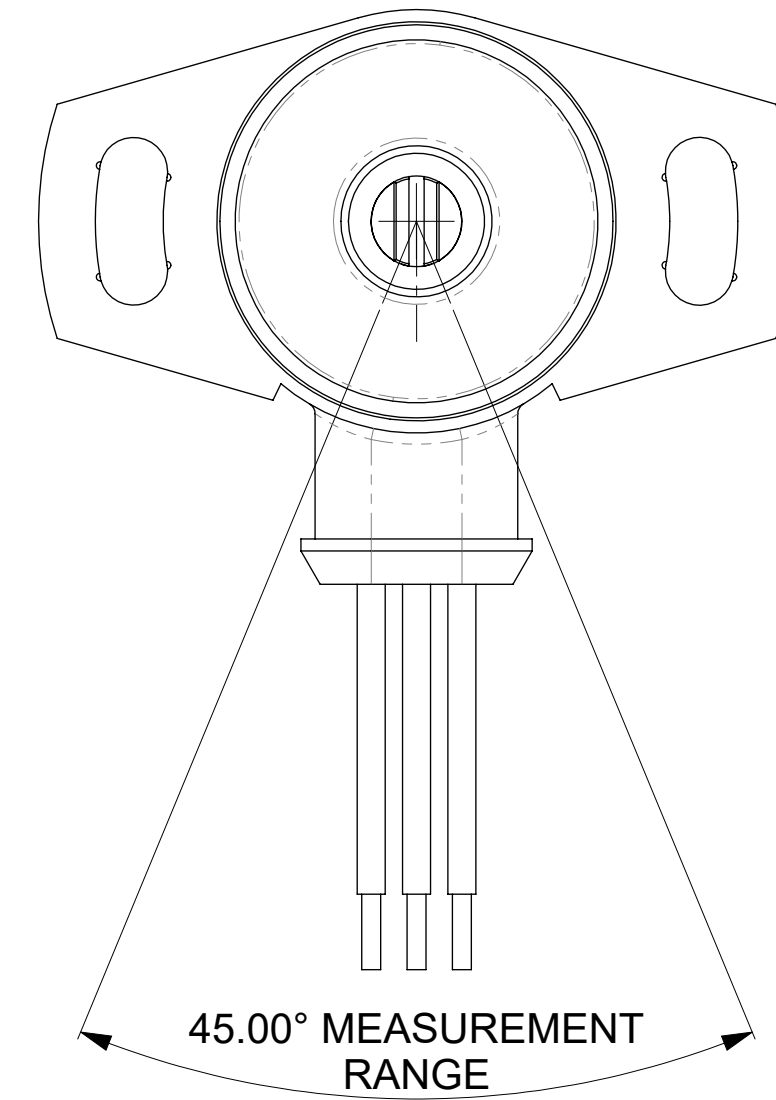
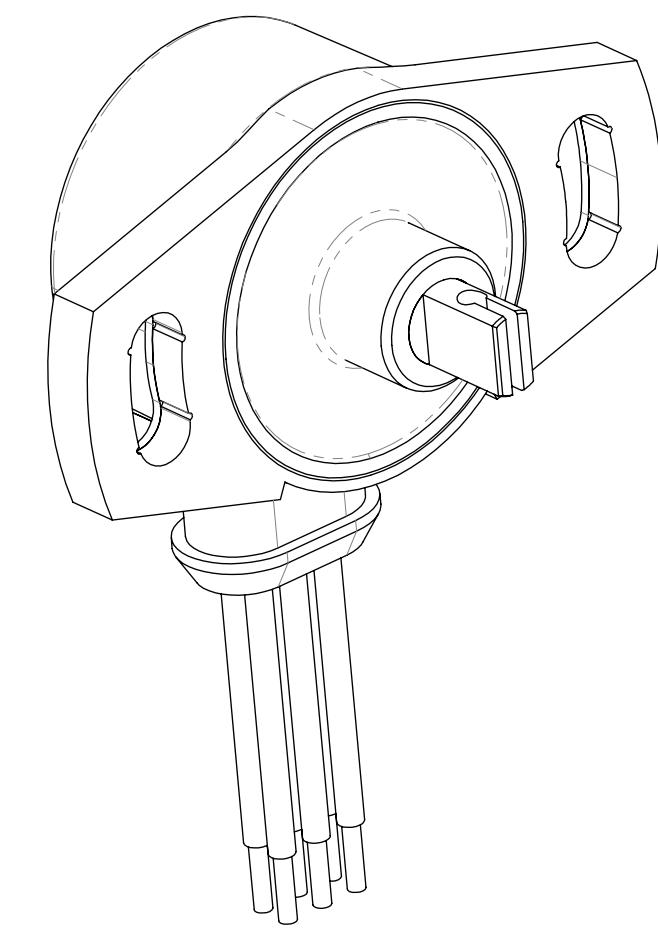
Operating temperature	-40°C to 140°C (-40°C to 120°C if conduit fitted)
Storage temperature	-40°C to 15.7°C at 9V (de-rate by 1.7°C for each 1V increase)
Sealing	IP69k (excluding connector)if conduit fitted
Vibration	BS EN 60068-2-64: 1995 Sec 8.4 (31.4g rms) 20 to 2000Hz
Shock	Survival to 2500g all axes
FE	20 million operations
MTTFd	>300 years
Electromagnetic interference	EN 61000-4-6 to 100V/m 80-1000MHz & 1.4-2.7GHz

### Electrical connections

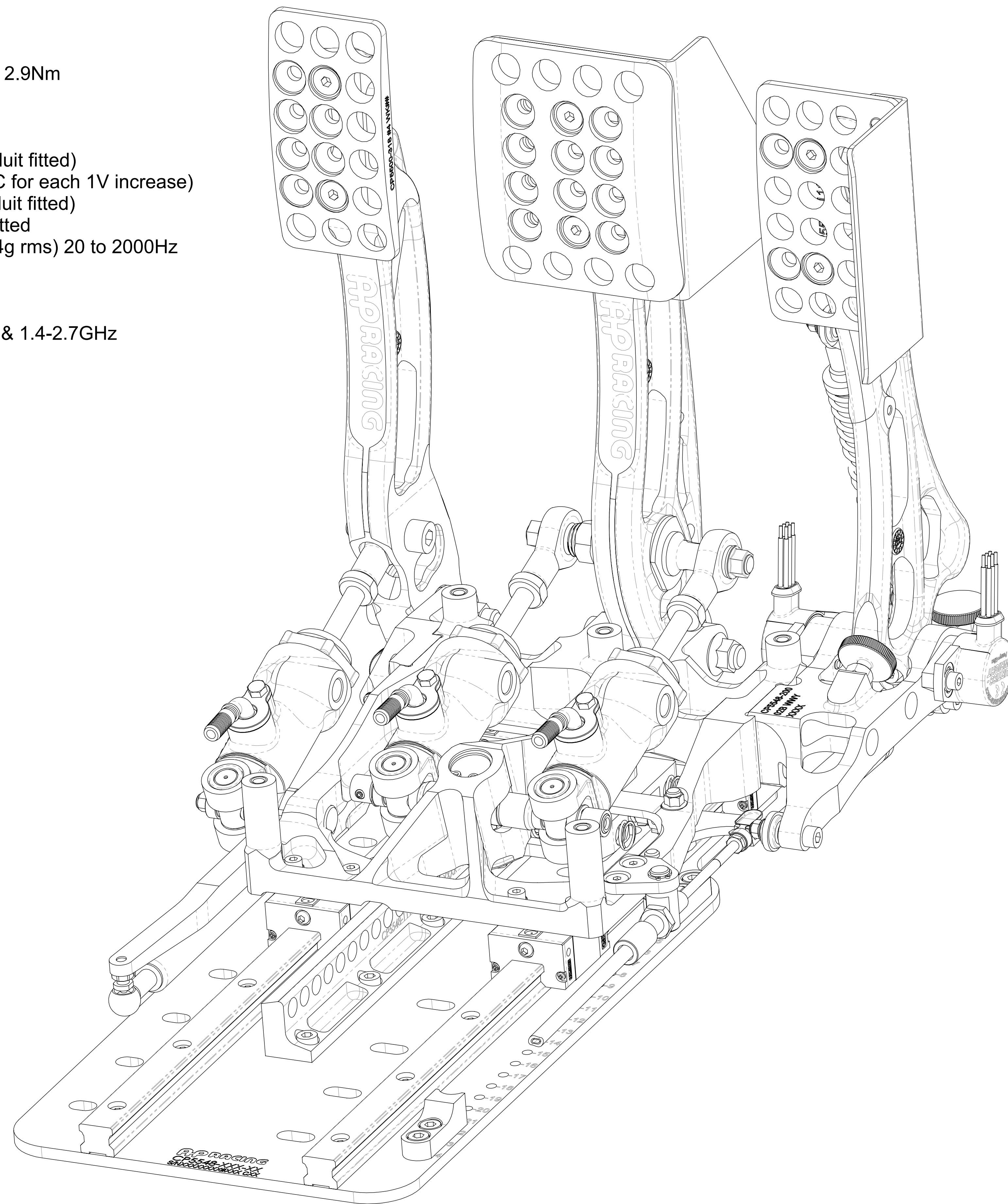
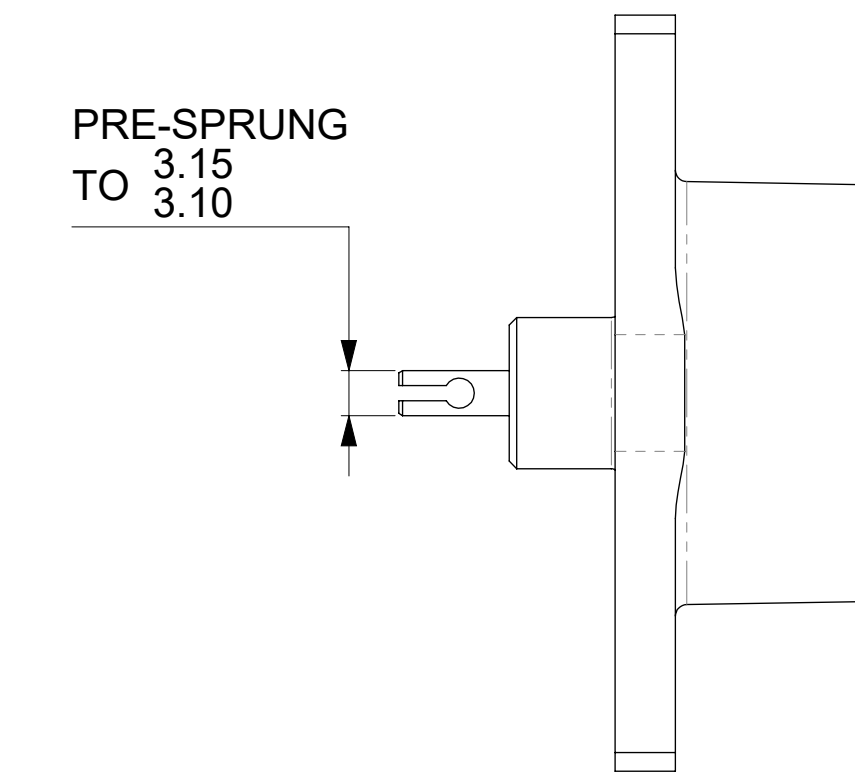
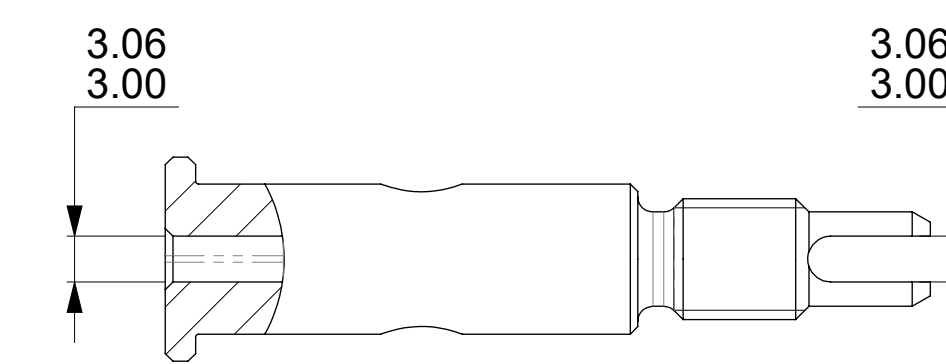
4-core cable, 18 AWG

Cable colour	Description
Red	V+ 1
Black	GND 1
Yellow	OUTPUT 1

Blue	V+ 2
Green	GND 2
White	OUTPUT 2



## PIVOT SHAFT SLOT DETAIL



Issue No.	Date & No.	Alterations Particulars	Zone	Initials
-	-	SEE SHEET 1 FOR ISSUE INFORMATION.	-	-

SCALE	1:1	SHEET	3 OF 7
DRAWN	Sten Wahlstrom		
APPROVED			
DERIVED FROM			
TITLE	FLOOR MTG PULL TYPE SLIDING PEDAL BOX 2nd GEN		
DRG NO.	CP5548-1CD		

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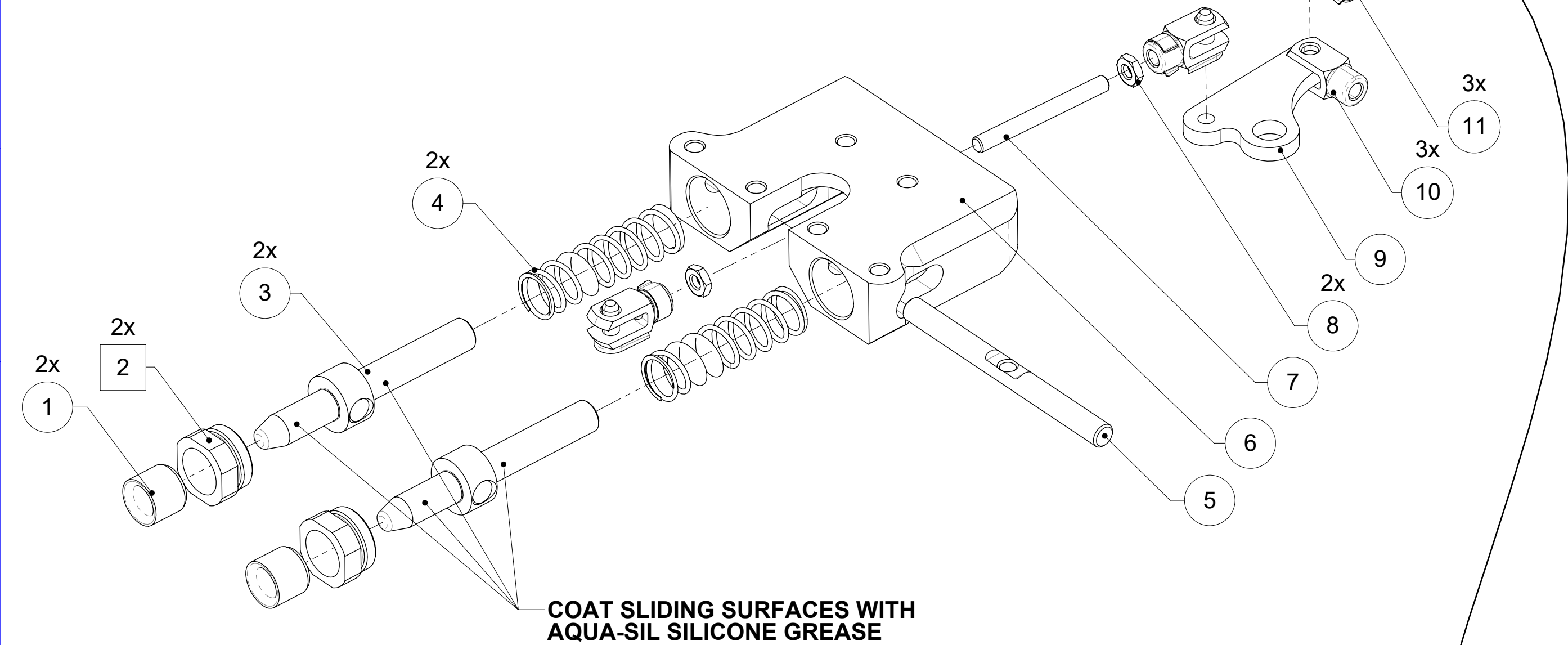


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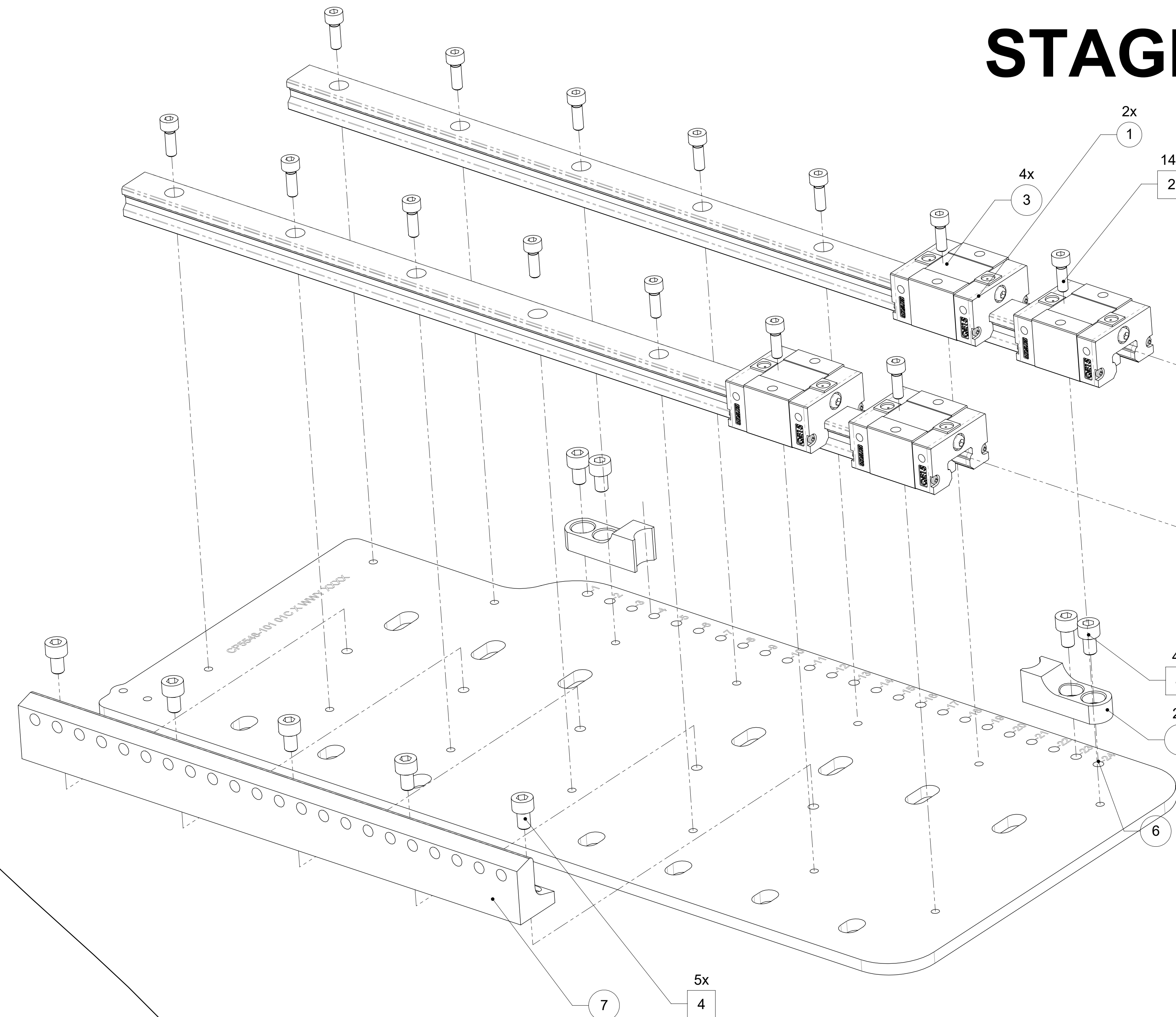
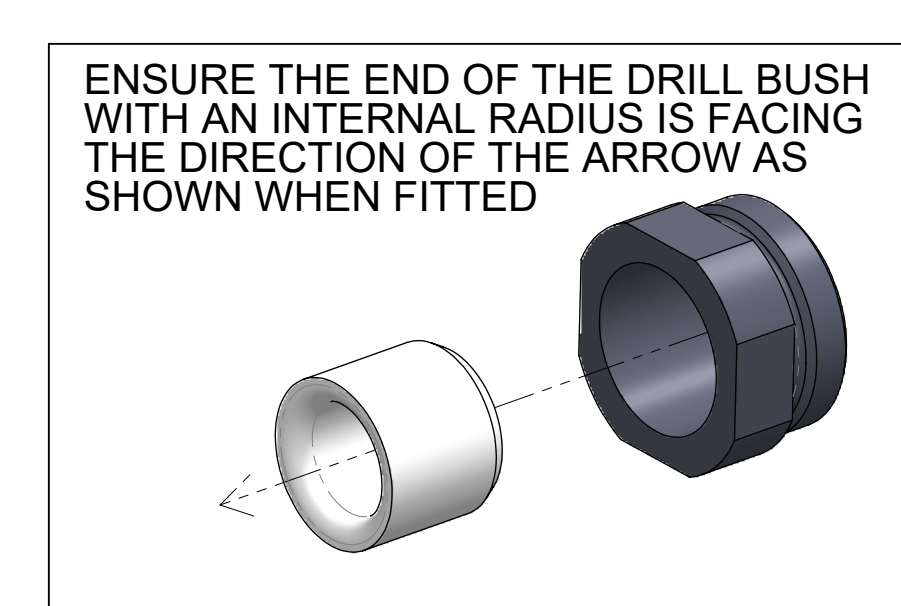
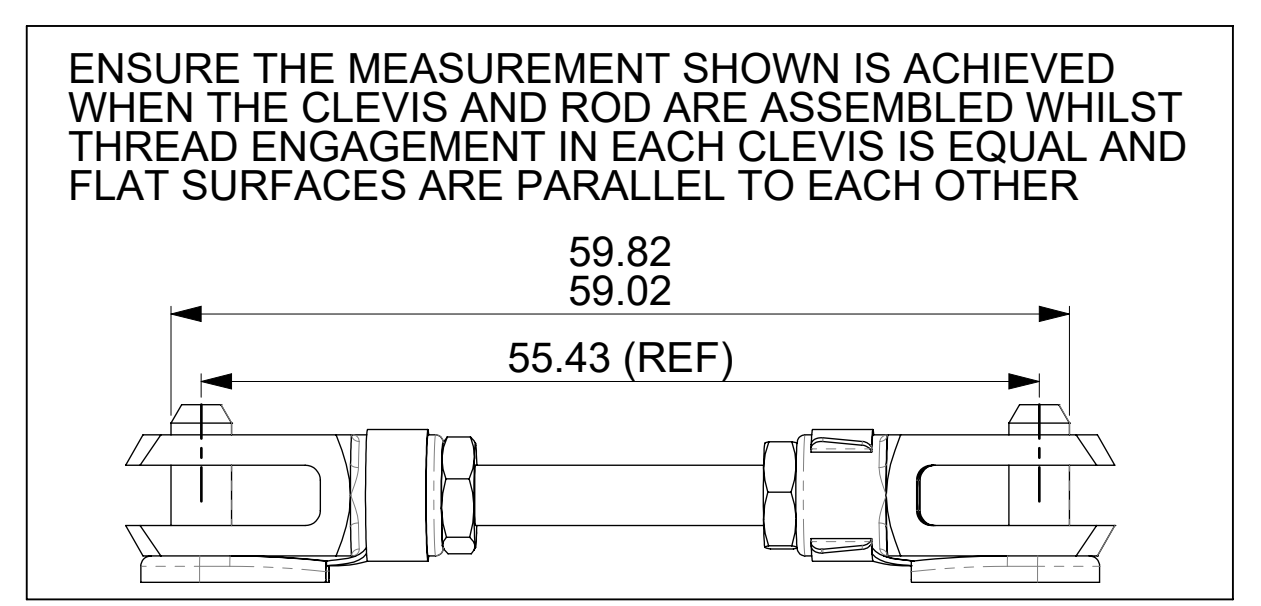
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## STAGE 1

SQUARE BOX AROUND ITEM No. INDICATES THAT LOCTITE IS USED

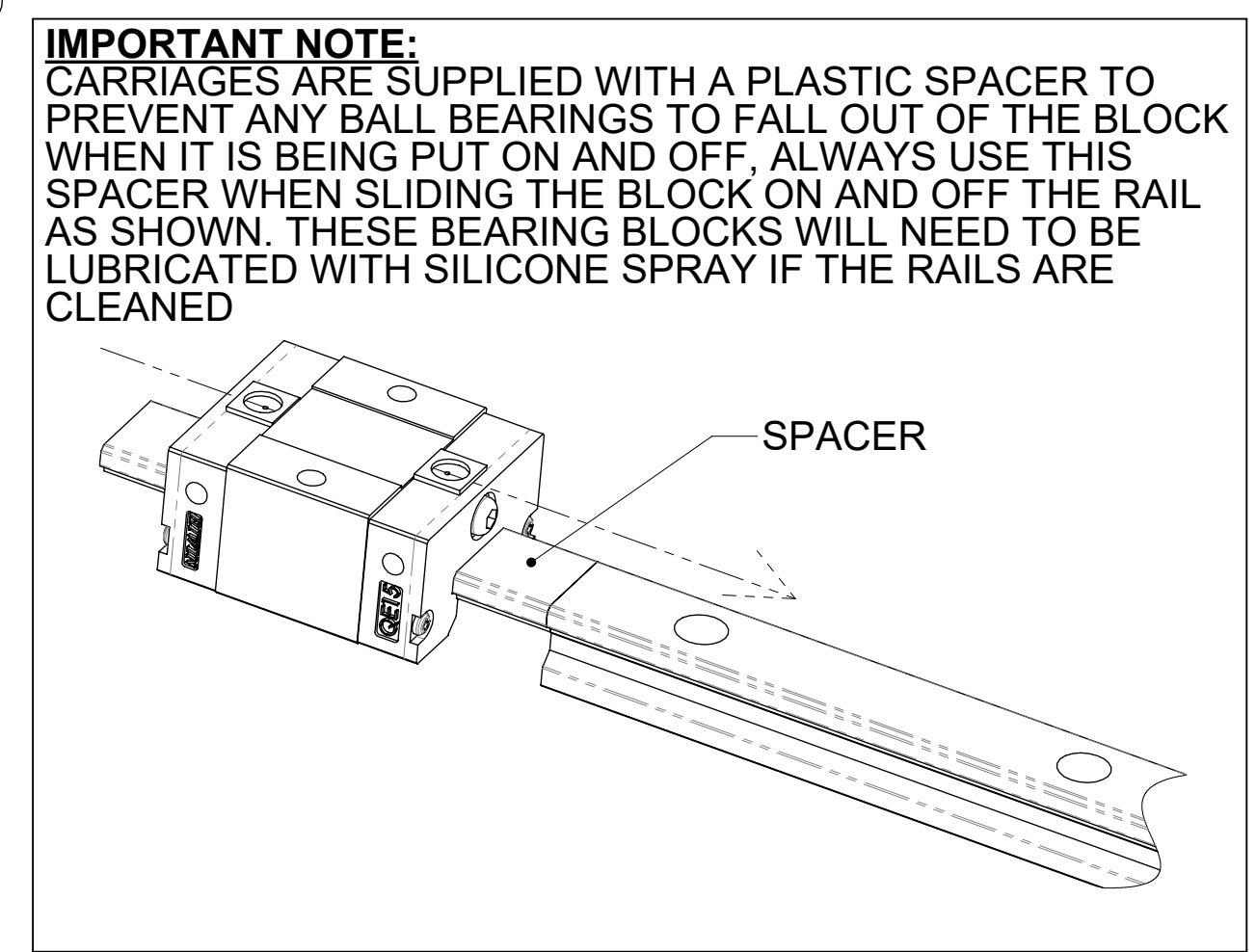


COAT SLIDING SURFACES WITH AQUA-SIL SILICONE GREASE



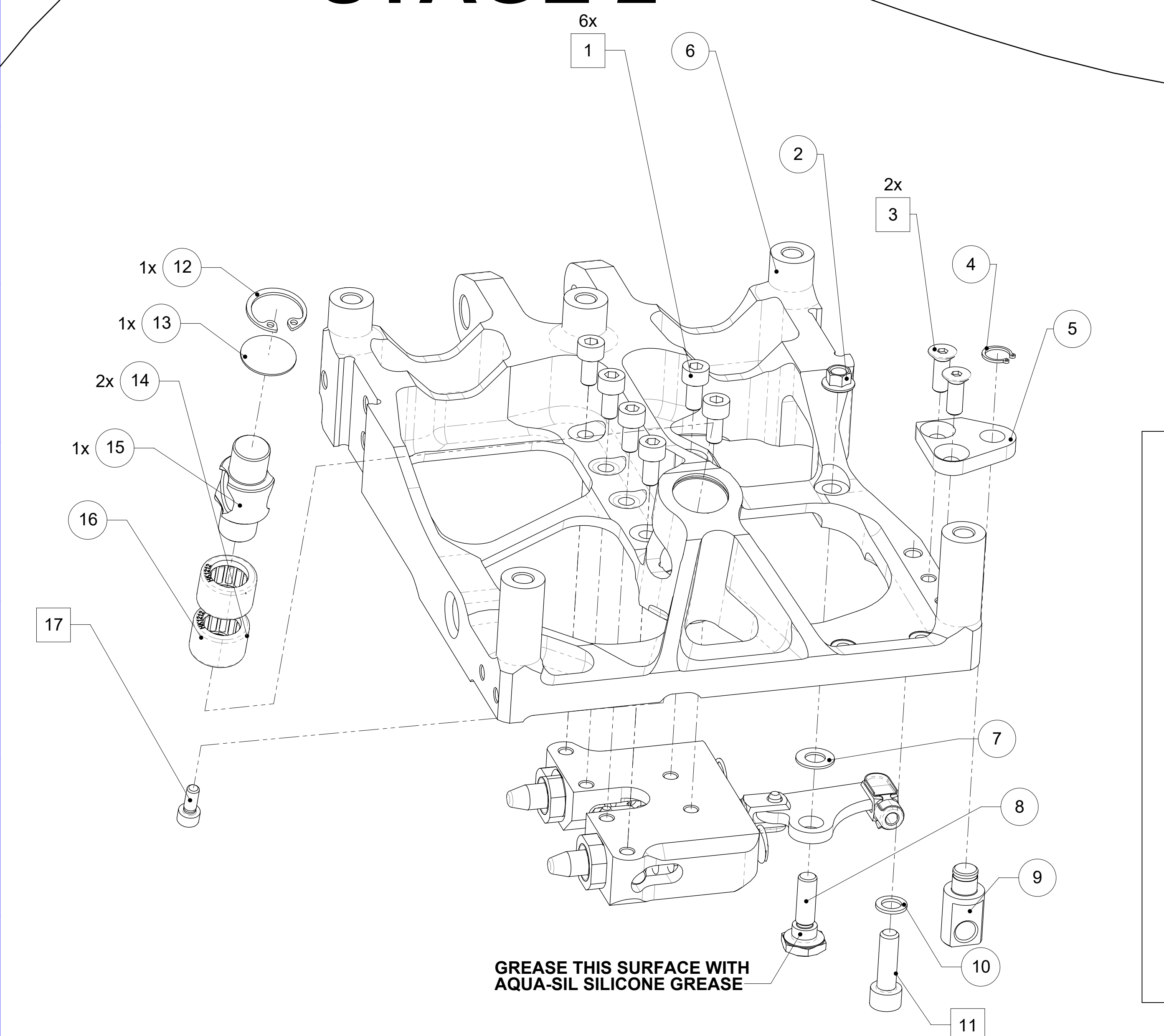
## STAGE 3

**IMPORTANT NOTE:**  
 IF A CARRIAGE COMES OFF THE RAIL WHILST FITTED ON TO THE BASEPLATE **DO NOT SLIDE IT BACK ON**, REMOVE THE CARRIAGE FROM THE BASEPLATE AND REPLACE THE PLASTIC SPACER BEFORE REFITTING.

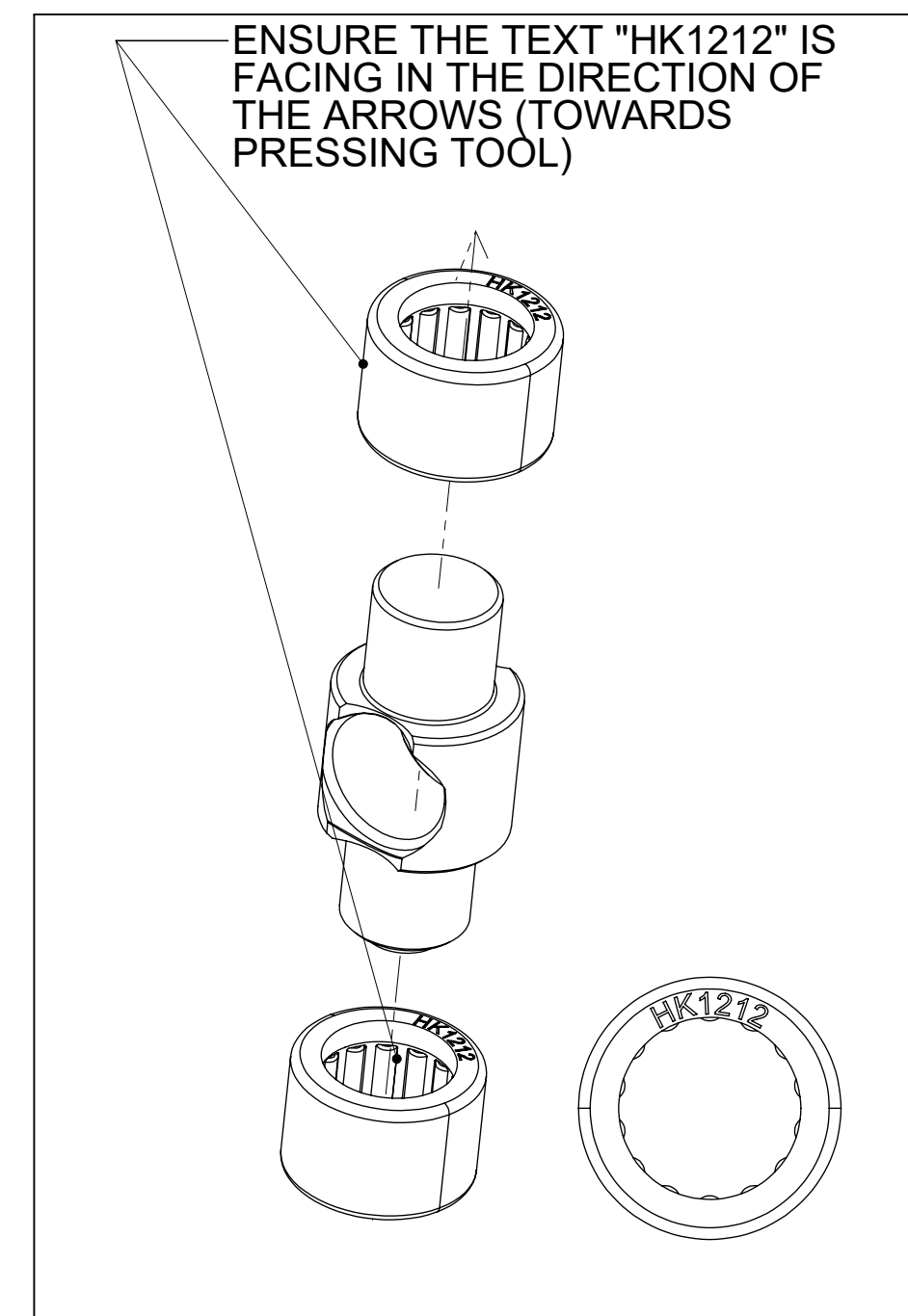


**IMPORTANT NOTE:**  
 CARRIAGES ARE SUPPLIED WITH A PLASTIC SPACER TO PREVENT ANY BALL BEARINGS TO FALL OUT OF THE BLOCK WHEN IT IS BEING PUT ON AND OFF. ALWAYS USE THIS SPACER WHEN SLIDING THE BLOCK ON AND OFF THE RAIL AS SHOWN. THESE BEARING BLOCKS WILL NEED TO BE LUBRICATED WITH SILICONE SPRAY IF THE RAILS ARE CLEANED

## STAGE 2



GREASE THIS SURFACE WITH AQUA-SIL SILICONE GREASE



STAGE 1					
ITEM No.	PART No.	DESCRIPTION	QTY	TORQUE	LOCTITE
1	CP5548-110	RELEASE MECH. DRILL BUSH	2	-	-
2	CP5548-109	RELEASE MECH. END CAP	3	5Nm	243
3	CP5548-108	RELEASE MECH. LOCKING PIN	2	-	-
4	CP5548-113	RELEASE MECH. SPRING	2	-	-
5	CP5548-112	RELEASE MECH. LOCKING PIN	1	-	-
6	CP5548-107	RELEASE MECH. PIN HOUSING	1	-	-
7	CP5548-117	THREADED BAR M4x39x0.70	1	-	-
8	CP5548-119	NUT M4x0.7	2	3.5Nm	-
9	CP5548-116	RELEASE MECH. CRANK	1	-	-
10	CP5548-120	CLEVIS JOINT	3	-	-
11	CP5548-121	STEEL CLEVIS RETENSION CLIP	2	-	-

STAGE 2					
ITEM No.	PART No.	DESCRIPTION	QTY	TORQUE	LOCTITE
1	CP9100-132	SCREW M5x10x1.00 CAP	6	6.8Nm	243
2	CP3423-107	NUT M6x1 KAYLOCK	1	5Nm	-
3	CP5538-115	SCREW M5x14x0.80	2	6.8Nm	243
4	CP5548-125	CIRCLIP EXT 4.8	1	-	-
5	CP5548-115	RELEASE MECH. BRACKET	1	-	-
6	CP5548-100	BASEPLATE	1	-	-
7	CP2494-1305	WASHER 12.5x6.5x0.80	1	-	-
8	CP5548-118	SHOULDER SCREW M6x1.00	1	5Nm	-
9	CP5548-122	RELEASE MECH. CABLE	1	-	-
10	CP5500-117	WASHER 10x6x1	1	-	-
11	CP4360-116	SCREW M6x20x1.00 CAP	1	10Nm	243
12	CP2232-39	INTERNAL CIRCLIP 18	1	-	-
13	CP5520-201	BALANCEBAR END PLATE	1	-	-
14	CP5548-123	NEEDLE BEARING HK1212	2	-	-
15	CP5548-126	BARREL NUT	1	-	-
16	CP5548-124	BALL BEARING 604_2Z	1	-	-
17	CP3555-199	SCREW M4x10x0.7 CAP	1	3.5Nm	243

STAGE 3					
ITEM No.	PART No.	DESCRIPTION	QTY	TORQUE	LOCTITE
1	CP5548-102	LINEAR BEARING RAIL	2	-	-
2	CP3215-115	SCREW M4x12x0.70 CAP	14	3Nm	243
3	CP5548-103	LINEAR BEARING CARRIAGE	4	-	-
4	CP3749-110	SCREW M5x8x0.80 CAP	9	5Nm	243
5	CP5548-104	TRAVEL STOP BRACKET	2	-	-
6	CP5548-101	MOUNTING TRAY	1	-	-
7	CP5548-111	RELEASE MECH. LOCKING RAIL	1	-	-

SCALE 1:1 SHEET 4 OF 7  
 DRAWN Sten Wahlstrom  
 APPROVED  
 DERIVED FROM  
 TITLE  
 FLOOR MTG PULL TYPE  
 SLIDING PEDAL BOX 2nd GEN  
 DRG NO. CP5548-1CD

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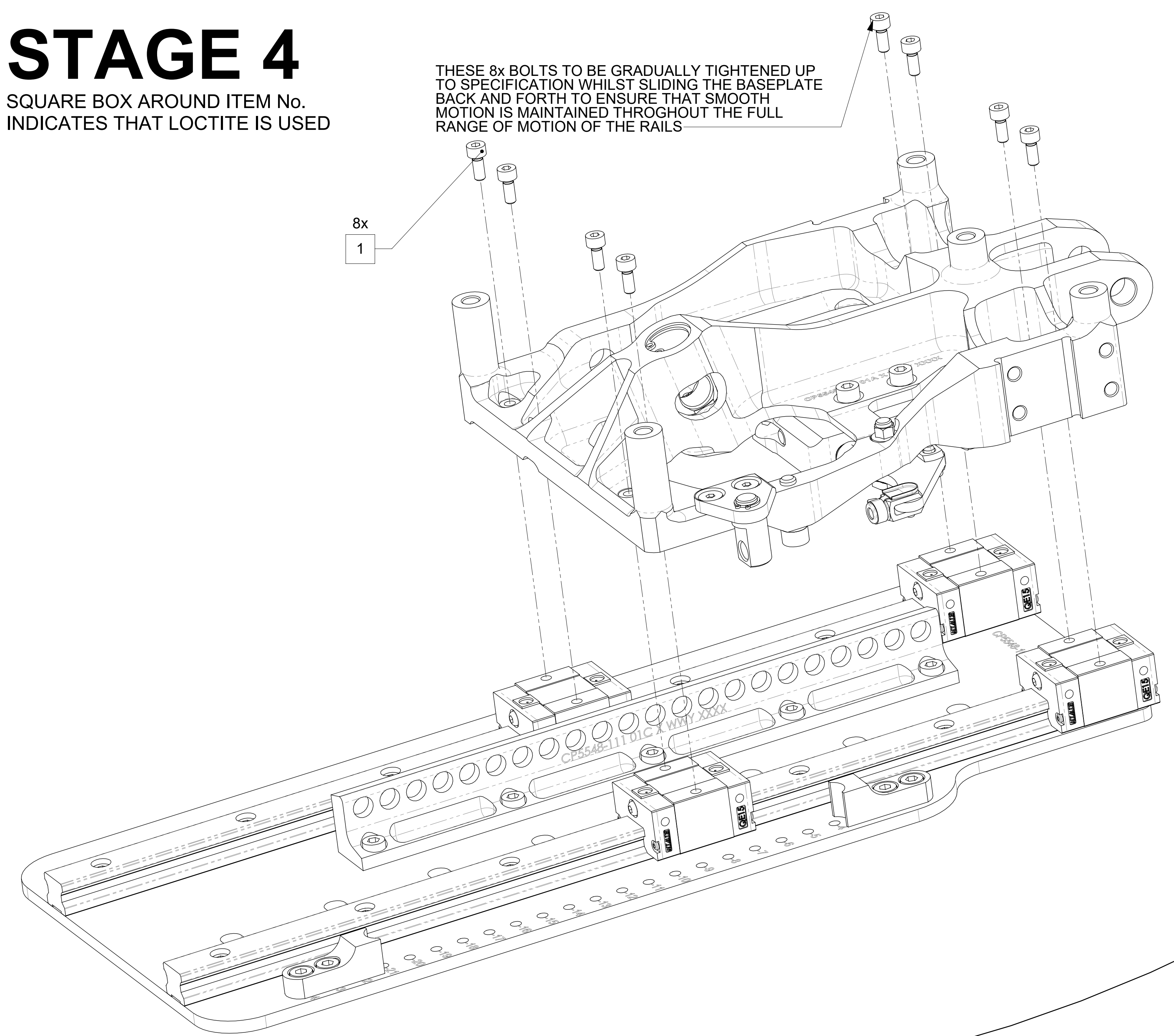
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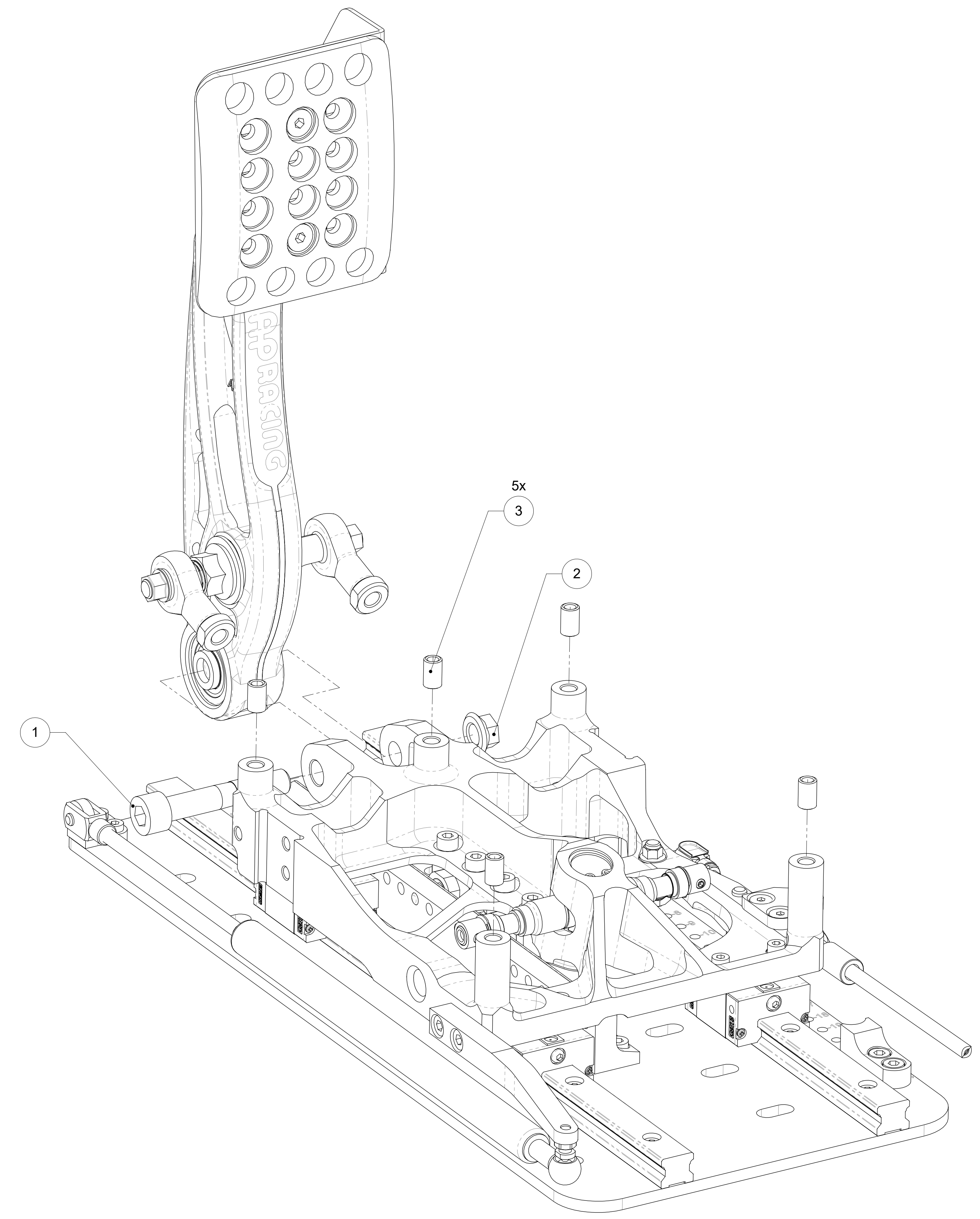
## STAGE 4

SQUARE BOX AROUND ITEM No. INDICATES THAT LOCTITE IS USED

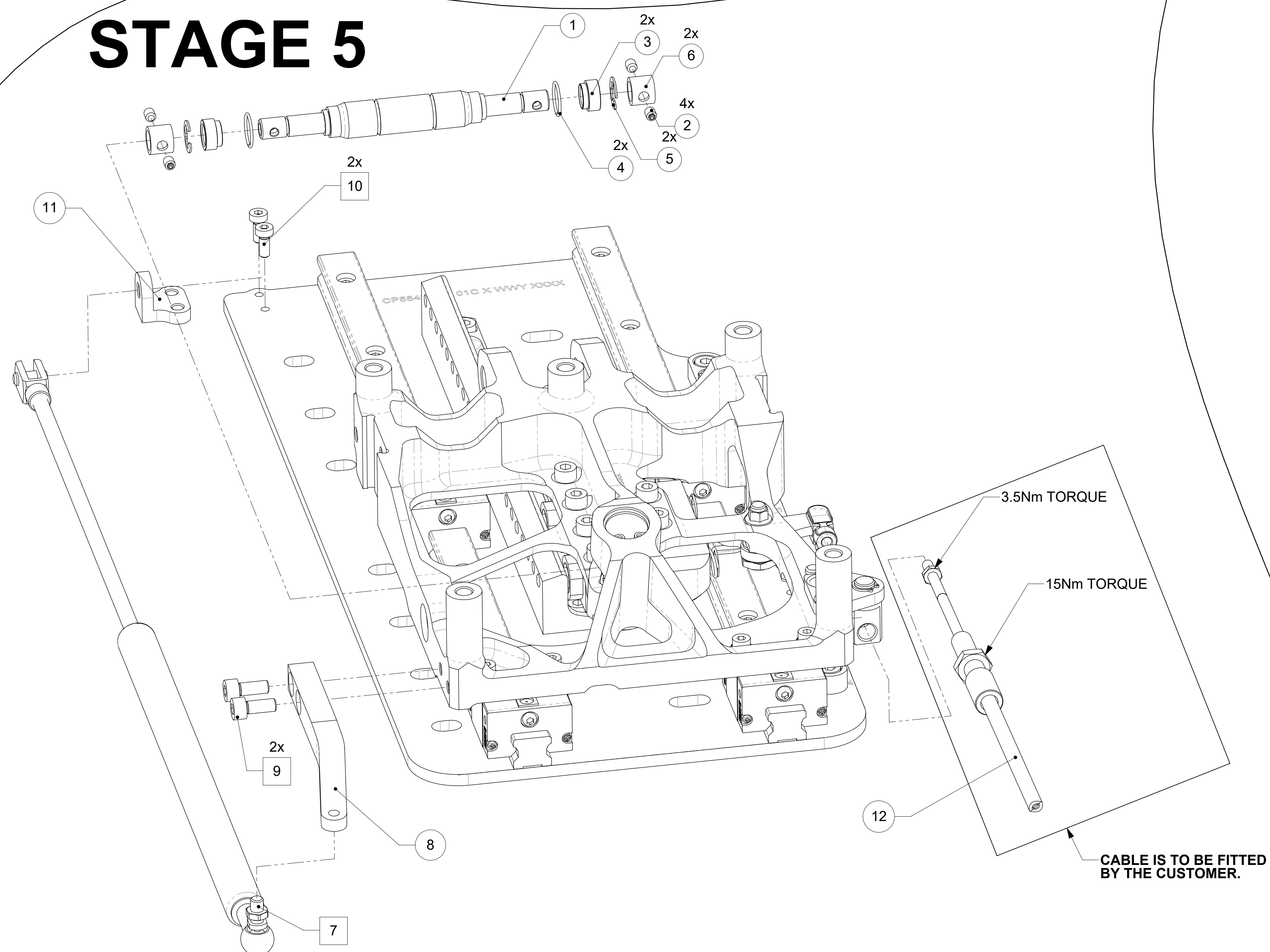
THESE 8x BOLTS TO BE GRADUALLY TIGHTENED UP TO SPECIFICATION WHILST SLIDING THE BASEPLATE BACK AND FORTH TO ENSURE THAT SMOOTH MOTION IS MAINTAINED THROUGHOUT THE FULL RANGE OF MOTION OF THE RAILS



## STAGE 6



## STAGE 5



CABLE IS TO BE FITTED BY THE CUSTOMER.

STAGE 4					
ITEM No.	PART No.	DESCRIPTION	QTY	TORQUE	LOCTITE
1	CP3555-199	BOLT-M4x10x0.7 CAP	8	3.5	243

STAGE 5					
ITEM No.	PART No.	DESCRIPTION	QTY	TORQUE	LOCTITE
1	CP5517-157	BALANCE BAR	1	-	-
2	CP5500-113ST	GRUB SCREW-M4x5x0.7	4	-	-
3	CP5517-124	BALANCEBAR SPACER	2	-	-
4	CP5517-161	SNAPRING	2	-	-
5	CP5517-123	CIRCLIP EXT 6.00	2	-	-
6	CP5517-160	BALANCEBAR BACKUP SPACER	2	-	-
7	CP5538-109	PBOX GAS SPRING	1	6Nm	243
8	CP5548-106	PEDAL BOX GAS STRUT BRACKET	1	-	-
9	CP9100-132	SCREW-M5x10x0.80 CAP	2	6Nm	243
10	CP5200-109	BOLT-M4x10x0.70 CAP-LOW	2	3Nm	243
11	CP5548-105	PEDAL BOX GAS STRUT BRACKET	1	-	-
12	CP5548-122	RELEASE MECHANISM CABLE	1	SEE NOTE	-

STAGE 6					
ITEM No.	PART No.	DESCRIPTION	QTY	TORQUE	LOCTITE
1	CP5200-108	BOLTMCM10x58x1.50 CAP	1	-	-
2	CP5427-101	NUT M10x1.50 KAYLOCK	1	40Nm	-
3	CP3344-111	HELICOLIL-M6x1.00x2.00	5	-	-

Alterations			
Issue No.	Date & No.	Particulars	Zone
-	-	SEE SHEET 1 FOR ISSUE INFORMATION.	-

SCALE 1:1	SHEET 5 OF 7
DRAWN	Sten Wahlstrom
APPROVED	
DERIVED FROM	
TITLE	FLOOR MTG PULL TYPE SLIDING PEDAL BOX 2nd GEN
DRG NO.	CP5548-1CD

# A0 ASSEMBLY DRAWING

## BRAKE

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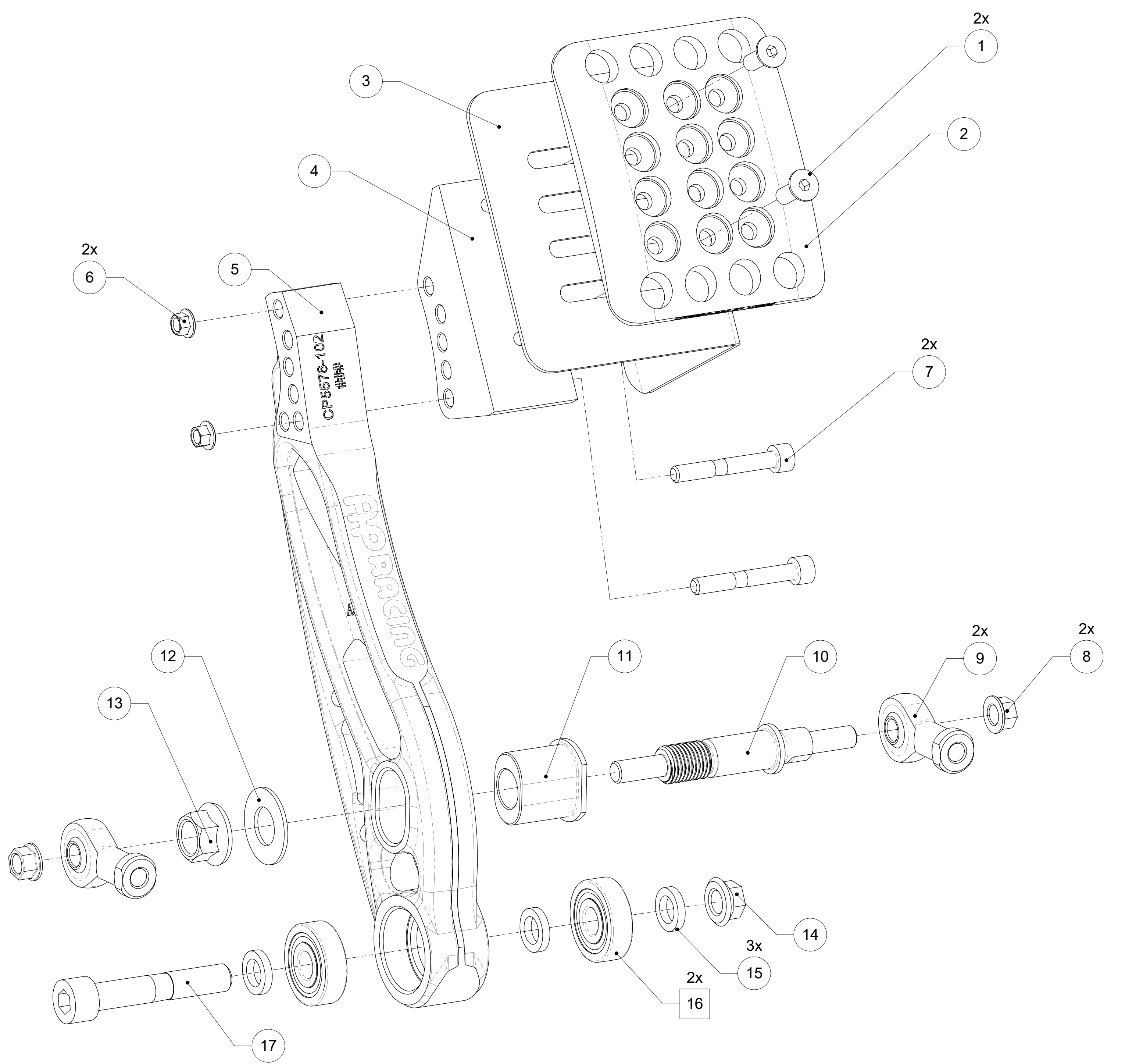
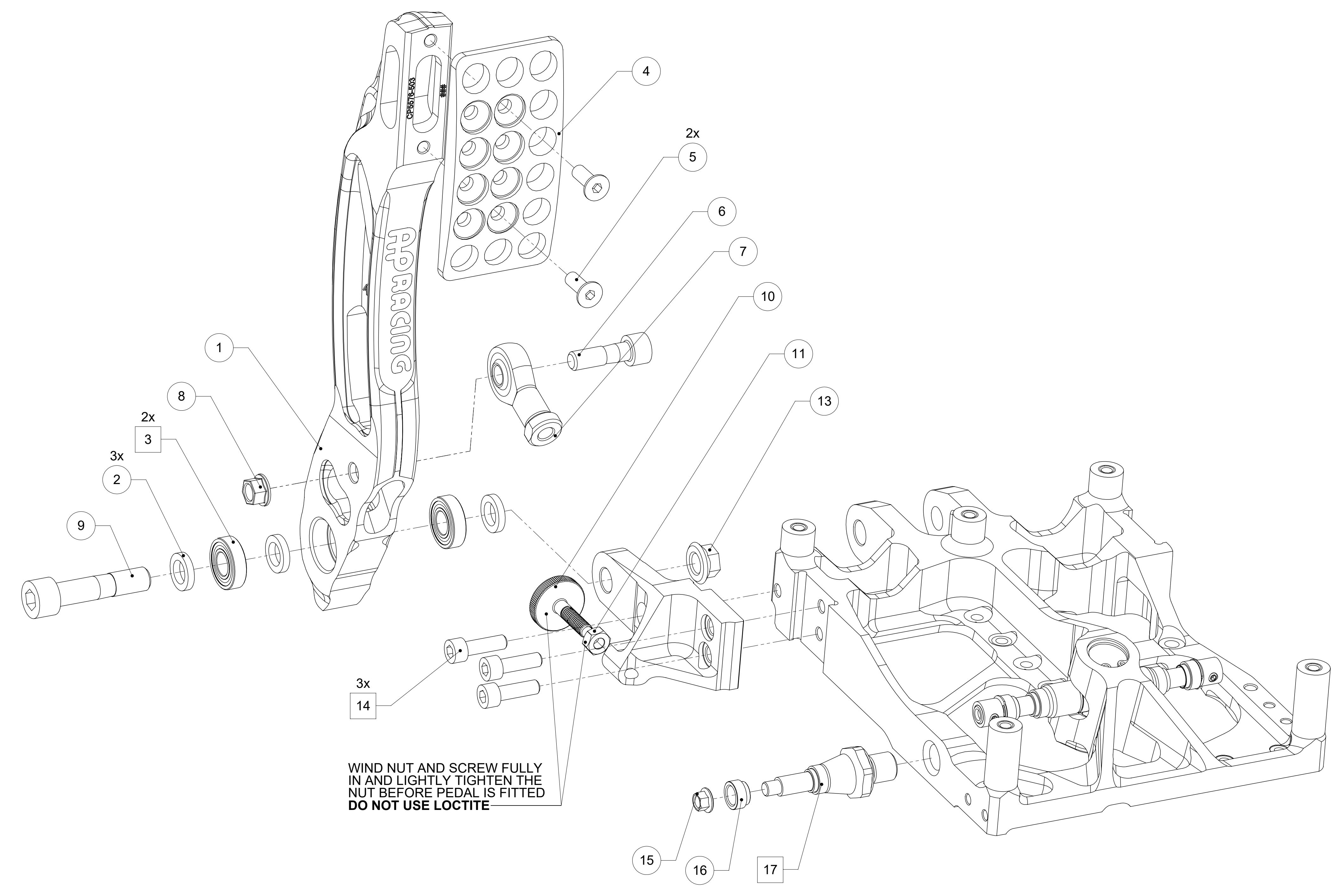
SQUARE BOX AROUND ITEM No. INDICATES THAT LOCTITE IS USED

# CLUTCH

SQUARE BOX AROUND ITEM No. INDICATES THAT LOCTITE IS USED

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 e-mail: sales@apracing.co.uk  
 Web site: HTTP://www.apracing.com

BRAKE					
ITEM No.	PART No.	DESCRIPTION	QTY	TORQUE	LOCTITE
1	CP4350-106	SCREW-M6x14 CSK	2	10Nm	-
2	CP5500-330	BRAKE PEDAL FOOTPAD	1	-	-
3	CP5538-210	BRAKE GUARD PLATE	1	-	-
4	CP5516-137	BRAKE FOOTPAD ADJUSTER	1	-	-
5	CP5576-102	BRAKE PEDAL	1	-	-
6	CP3423-107	NUT M6x1.00 KAYLOCK	2	-	-
7	CP4370-114	SCREW-M6x42 CAP	2	10Nm	-
8	CP4611-111	NUT M8x1.25 KAYLOCK	2	25Nm	-
9	CP5506-106	ROD END M8x1.25	2	-	-
10	CP5576-104	PULLBAR FLANGED	1	-	-
11	CP5576-105	BEARING HOLDER	1	-	-
12	CP3307-258	WASHER-28.0x14.2x1.50	1	-	-
13	CP5576-107	NUT M14x1.50 KAYLOCK	1	50Nm	-
14	CP5427-101	NUT M10x1.50 KAYLOCK	1	-	-
15	CP5518-127	SPACER 16x10.2x3	3	-	-
16	CP5516-106	BRG BALL-30.0x10.0x09.0	2	-	648
17	CP5200-108	BOLTMC-M10x58x1.50 CAP	1	40Nm	-



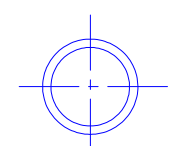
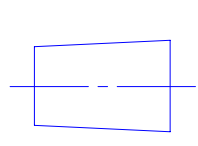
CLUTCH					
ITEM No.	PART No.	DESCRIPTION	QTY	TORQUE	LOCTITE
1	CP5576-103	CLUTCH PEDAL	1	-	-
2	CP5518-127	SPACER RING	3	-	-
3	CP5516-140	BEARING BALL-22.0x10.0x06.0	2	-	648
4	CP5500-318	PEDAL FOOTPAD	1	-	-
5	CP4350-106	SCREW-M6x14 CSK	2	10Nm	-
6	CP5517-132	BOLT-M8x27 CAP	1	25Nm	-
7	CP5506-106	ROD END M8x1.25	1	-	-
8	CP4611-111	NUT M8x1.25 KAYLOCK	1	-	-
9	CP5000-407	BOLTMC-M10x45x1.50 CAP	1	40Nm	-
10	CP5548-204	KNURLED SCREW M6x1.00	1	SEE NOTE	-
11	ME21001	NUT M6x1.00	1	SEE NOTE	-
12	CP5548-150	CLUTCH PEDAL BRACKET	1	-	-
13	CP5427-101	NUT M10x1.50 KAYLOCK	1	-	-
14	CP4360-116	SCREW-M6x20 CAP	3	10Nm	-
15	CP3423-107	NUT M6x1.00 KAYLOCK	1	6.8Nm	-
16	CP5517-124	BALANCEBAR SPACER	1	-	-
17	CP5548-155	CLUTCH ATTACHMENT	1	50	243

Issue No.	Date & No.	Alterations		Zone	Initials
		Date & No.	Particulars		
-	-	-	SEE SHEET 1 FOR ISSUE INFORMATION.	-	-

SCALE 1:1 SHEET 6 OF 7  
 DRAWN Sten Wahlstrom  
 APPROVED  
 DERIVED FROM  
 TITLE  
 FLOOR MTG PULL TYPE  
 SLIDING PEDAL BOX 2nd GEN  
 DRG NO. CP5548-1CD

# A0 ASSEMBLY DRAWING

IF THIS DOCUMENT IS PRINTED IN HARDCOPY IT IS FOR INFORMATION USE ONLY AND THEREFORE IS NOT SUBJECT TO UPDATING CONTROLS. ALWAYS REFER TO SOLIDWORKS VIEWER FOR LATEST ISSUE



FIRST ANGLE PROJECTION

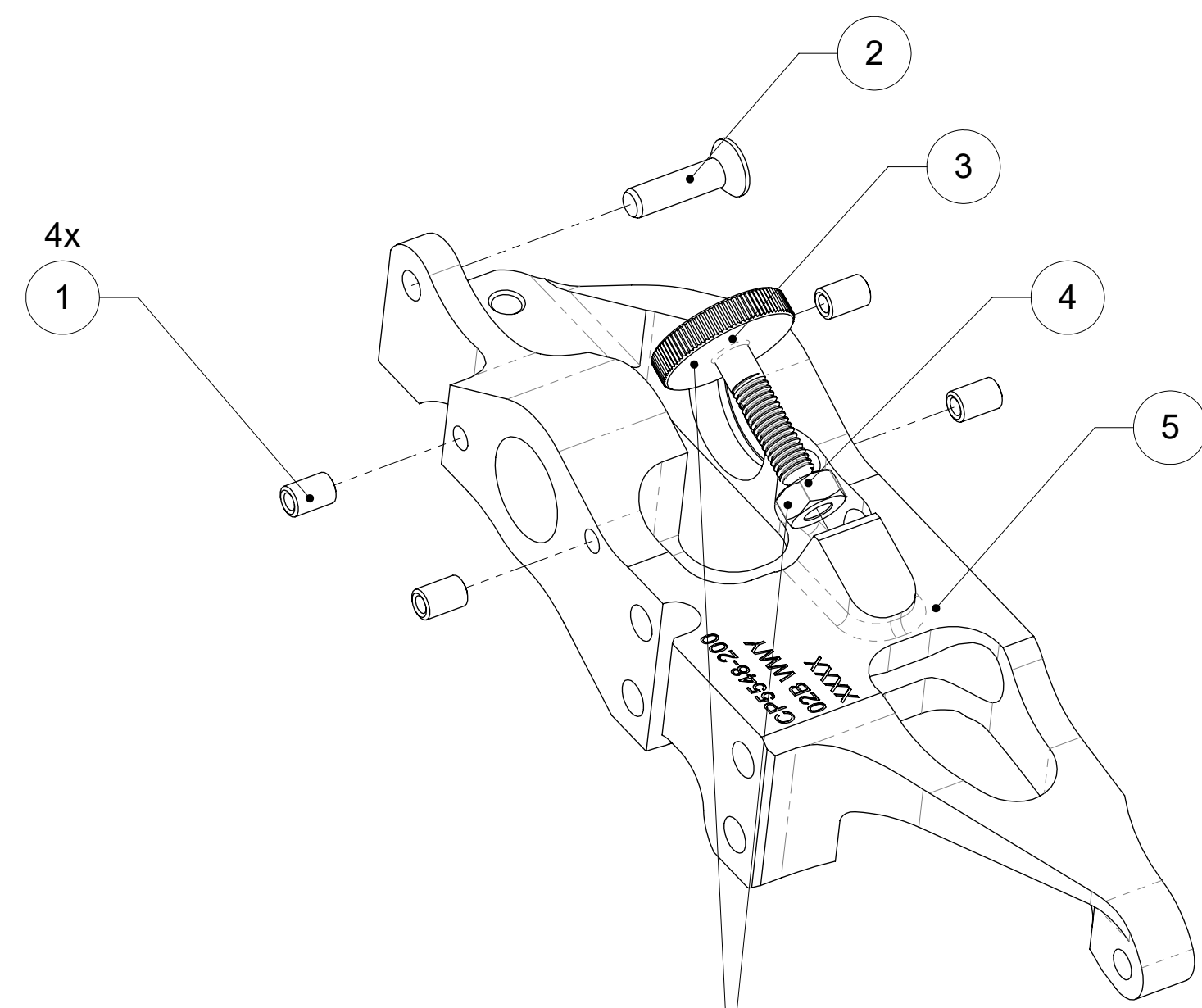
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e-mail: sales@apracings.com  
Web site: HTTP://www.apracings.com

## THROTTLE SQUARE BOX AROUND ITEM No. INDICATES THAT LOCTITE IS USED

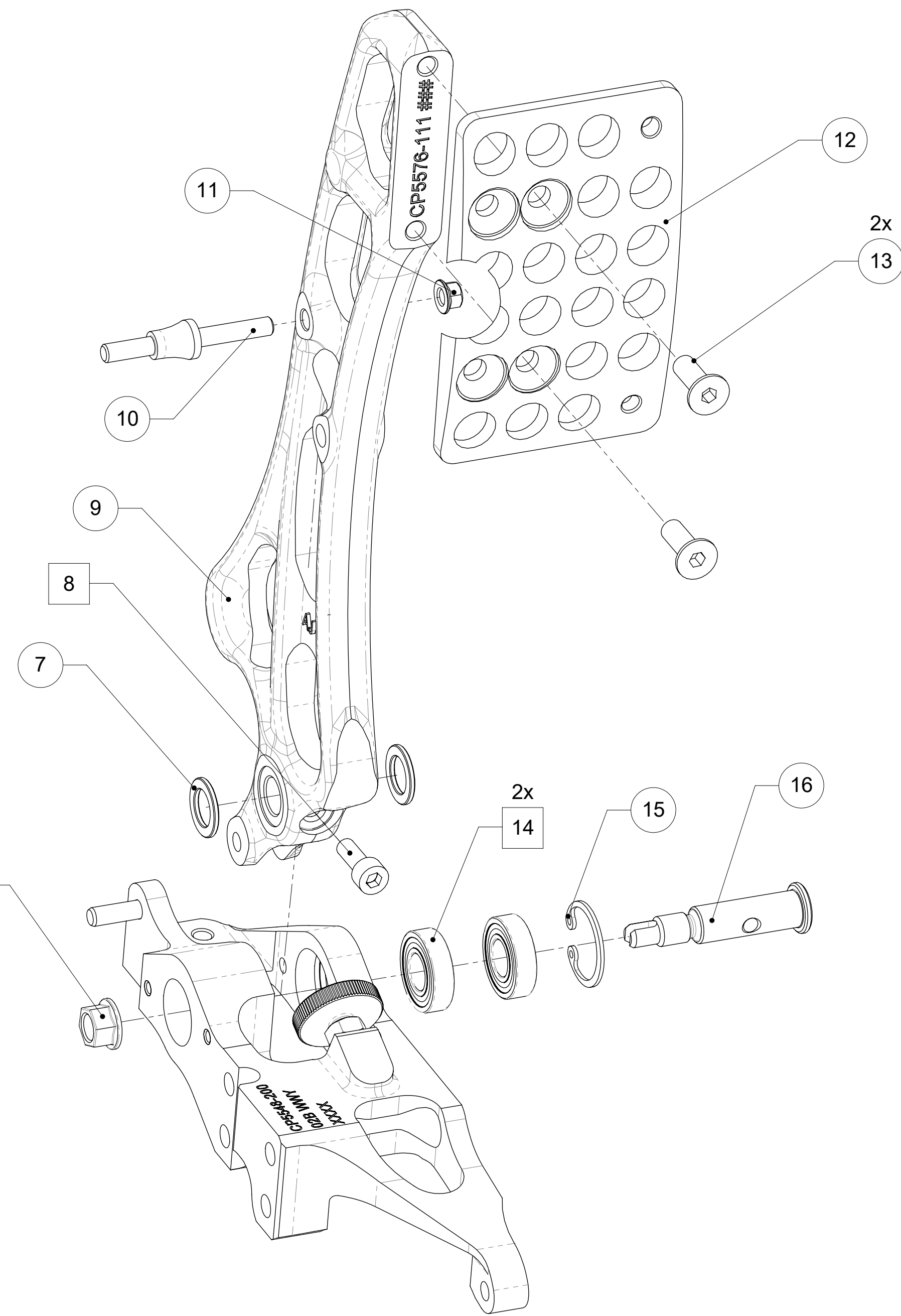
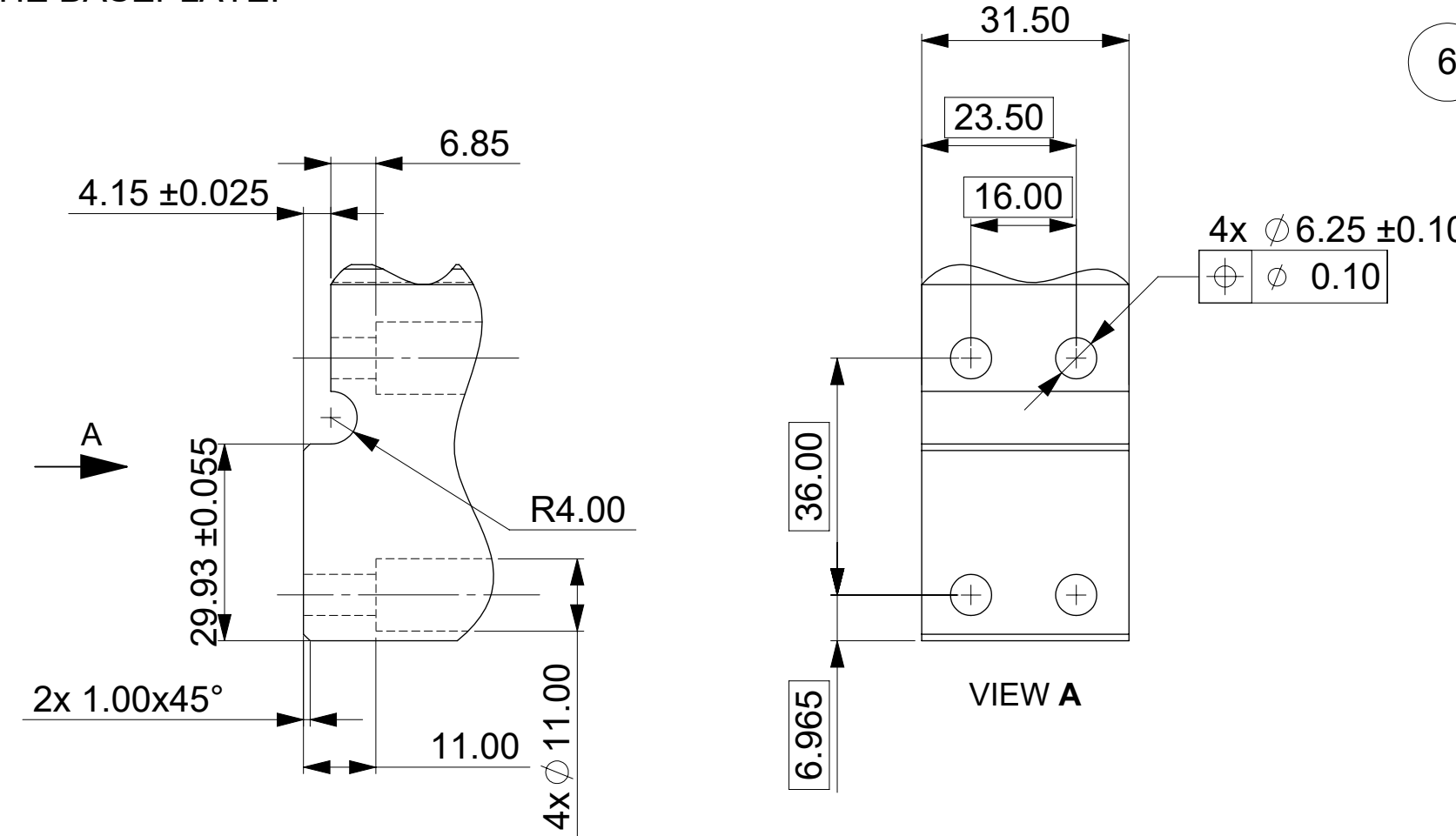
THROTTLE					
ITEM No.	PART No.	DESCRIPTION	QTY	TORQUE	LOCTITE
1	CP2494-3037	HELICOIL-M4x0.70x2.0DLK	4	-	-
2	CP2494-3078	SCREW-M5x20 CSK	1	6.8Nm	-
3	CP5548-204	KNURLED SCREW M6x1.00	2	SEE NOTE	-
4	ME21001	NUT M06x1.00	2	SEE NOTE	-
5	CP5548-200	THROTTLE PEDAL BRACKET	1	-	-
6	CP4611-111	NUT M8x1.25 KAYLOCK	1	25Nm	-
7	CP5538-208	SPACER RING	2	-	-
8	CP5516-208	BOLT -M5x14x0.8 CAP	1	6.8Nm	243
9	CP5576-111	THROTTLE PEDAL	1	-	-
10	CP5548-206	SPRING MECHANISM ATTACHMENT	1	-	-
11	CP5576-126	NUT M5x0.80 KAYLOCK	5	6.8Nm	-
12	CP5516-167	THOTTLE PEDAL FOOTPAD	1	-	-
13	CP4350-106	SCREW-M6x14 CSK	2	10Nm	-
14	CP5516-140	BRG BALL-22.0x10.0x06.0	2	-	648
15	CP5516-162	CIRCLIP INT 23.10	1	-	-
16	CP5548-202	THROTTLE PIVOT SHAFT	1	-	-
17	CP5548-208	ROD END M5x0.8	4	-	243
18	CP9100-132	BOLT-M5x10x0.80 CAP	1	2Nm	243
19	CP5548-211	SPRING STRUT BODY	1	-	-
20	CP5548-212	SPRING STRUT ROD	1	-	-
21	CP5576-117	COMPRESSION SPRING	1	-	-
22	CP5548-207	HYDRAULIC DAMPER	1	-	-
23	CP5896-144	WASHER-9.0x5.3x1.0	2	-	-
24	CP5500-119	BOLTMC-M05x025 CAP	2	6.8Nm	-
25	CP4360-116	SCREW-M6x20 CAP	4	10Nm	243
26	CP2494-1305	WASHER-12.5x06.5x0.80	2	-	-
27	CP5516-164	THOTTLE GUARD PLATE	1	-	-
28	CP2749-194	SCREW-M6x8 BUT	2	8Nm	243
29	CP5548-203	THROTTLE SENSOR PLATE	1	-	-
30	CP5548-209	THROTTLE POSITION SENSOR	1	-	-
31	CP7000-170	WASHER-9.0x4.2x0.8	2	-	-
32	CP3833-182	SCREW-M4x16 CAP	2	3.5Nm	-



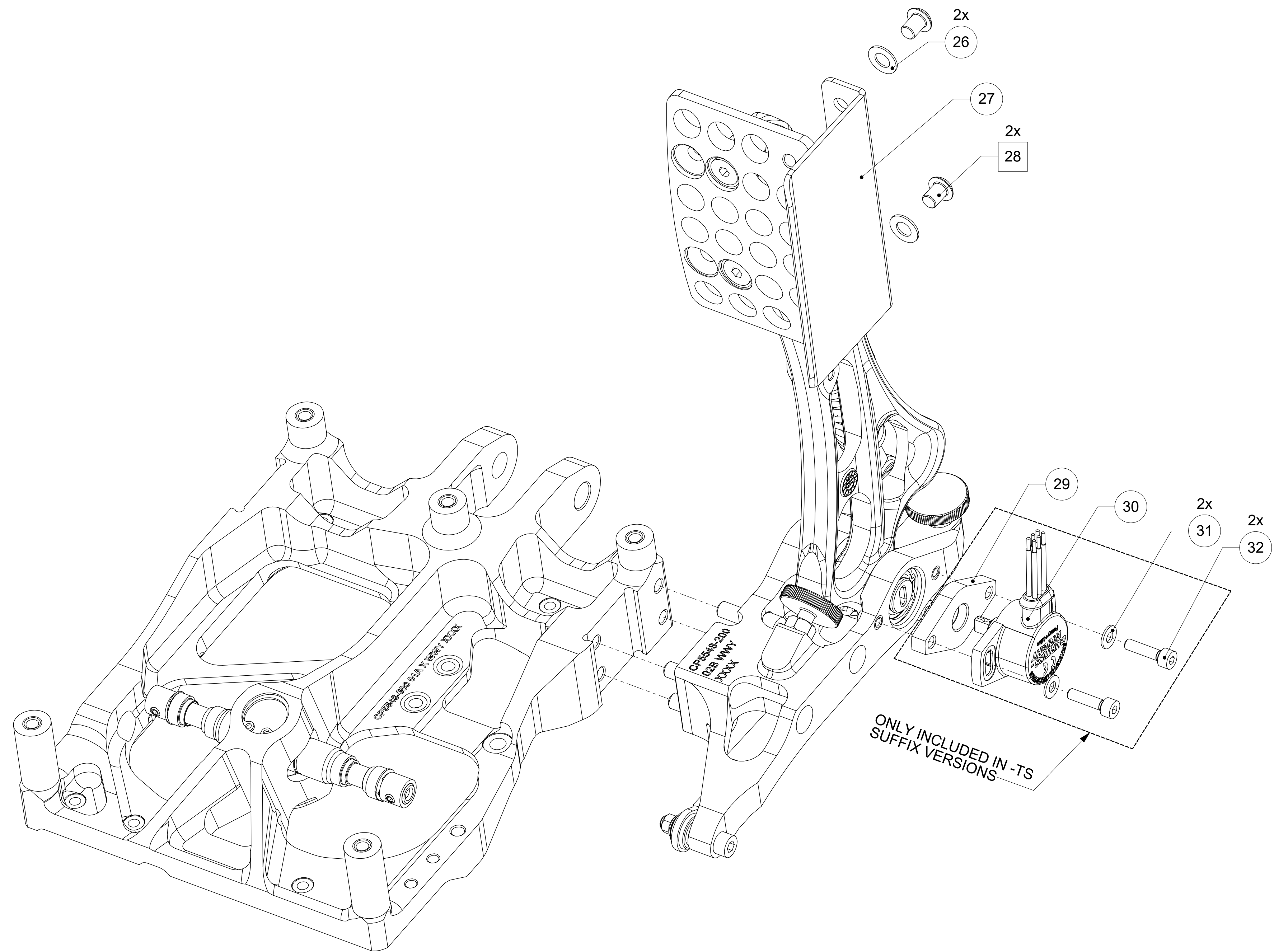
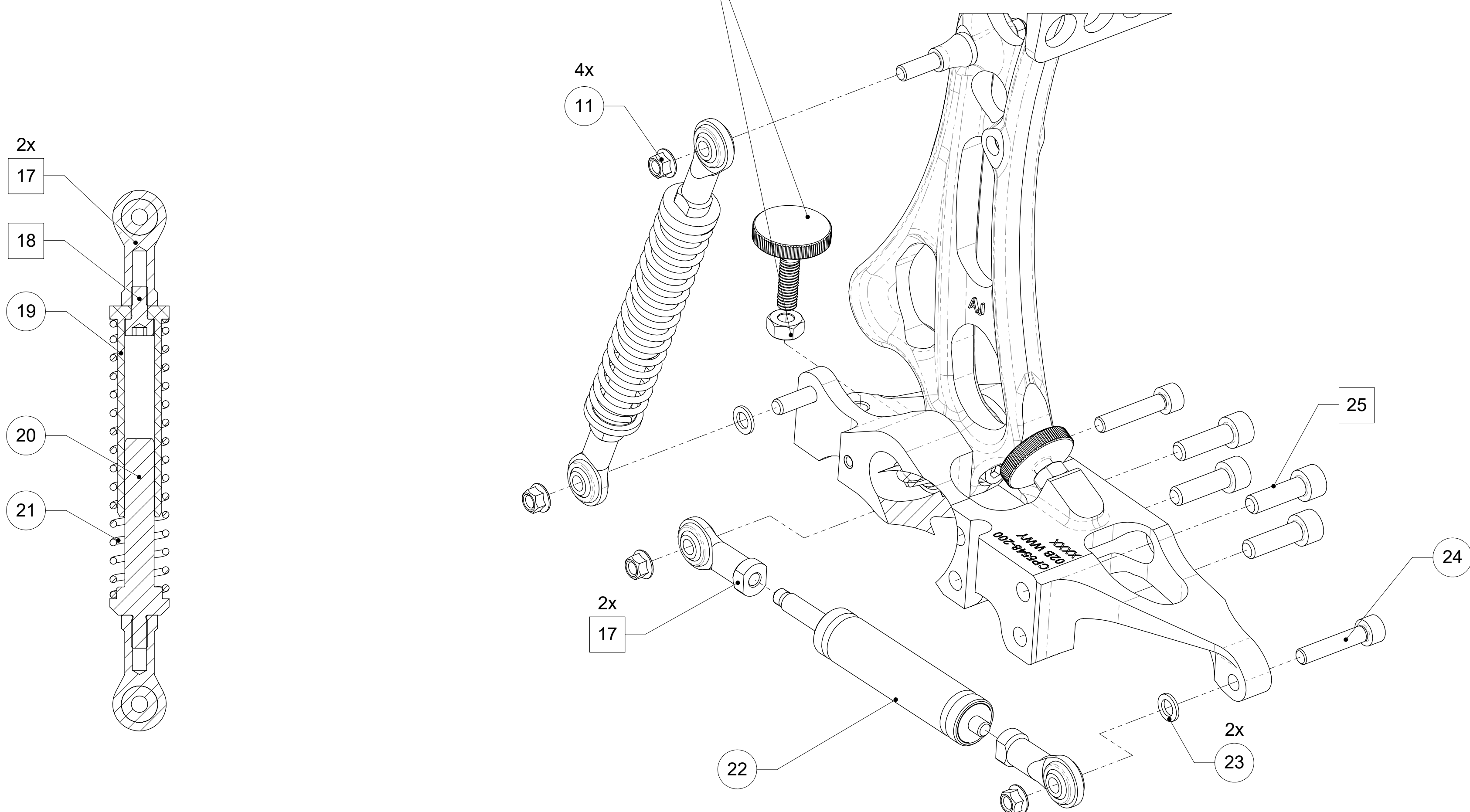
THESE ARE NOT TORQUED AND ARE TO BE ADJUSTED TO DESIRED POSITION BY THE CUSTOMER.

### THROTTLE BRACKET DIMENSIONS

SUGGESTED INTERFACE DIMENSIONS FOR MOUNTING THROTTLE MODULE TO THE BASEPLATE.



THESE ARE NOT TORQUED AND ARE TO BE ADJUSTED TO DESIRED POSITION BY THE CUSTOMER.



Alterations

Issue No.	Date & No.	Particulars	Zone	Initials
-	-	SEE SHEET 1 FOR ISSUE INFORMATION.	-	-