

A0 INSTALLATION DRAWING

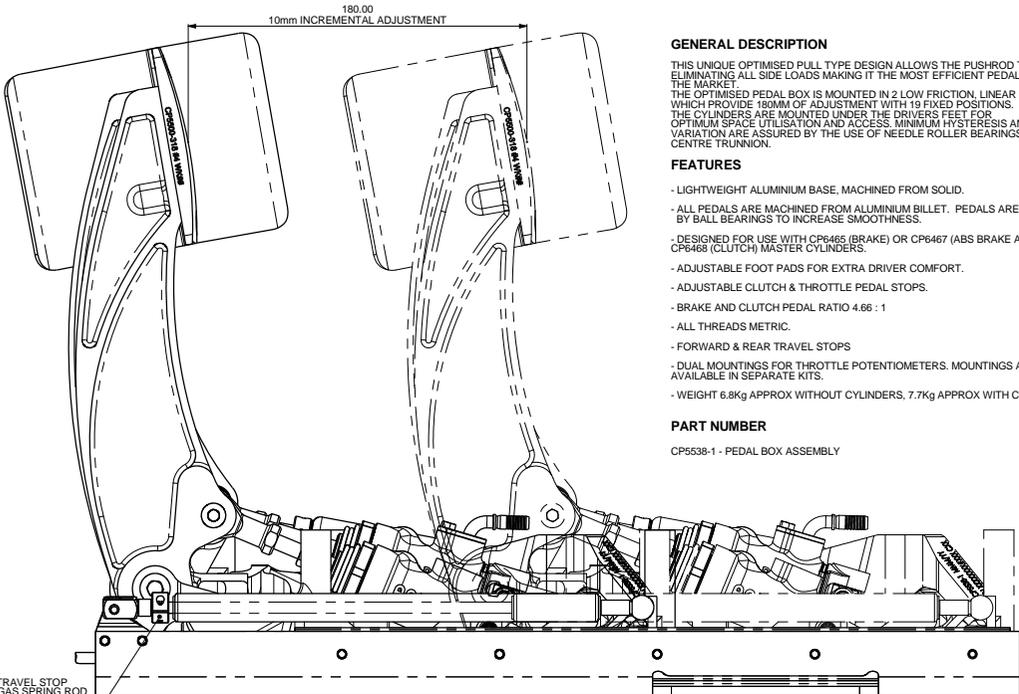
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GENERAL DESCRIPTION

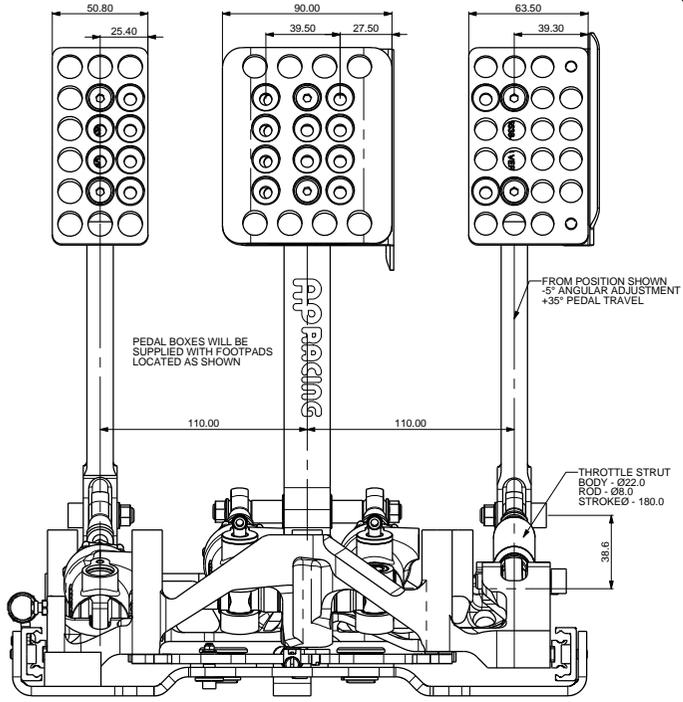
THIS UNIQUE OPTIMISED PULL TYPE DESIGN ALLOWS THE PUSHROD TO REMAIN STRAIGHT, ELIMINATING ALL SIDE LOADS MAKING IT THE MOST EFFICIENT PEDAL BOX ON THE MARKET!
 THE OPTIMISED PEDAL BOX IS MOUNTED IN 2 LOW FRICTION, LINEAR BEARING RAILS WHICH PROVIDE 180MM OF ADJUSTMENT WITH 13 FIXED POSITIONS.
 THE CYLINDERS 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 BILLET. PEDALS ARE PIVOTED BY BALL BEARINGS TO INCREASE SMOOTHNESS.
- DESIGNED FOR USE WITH CP6465 (BRAKE) OR CP6467 (ABS BRAKE APPLICATIONS) & CP6468 (CLUTCH) MASTER CYLINDERS.
- ADJUSTABLE FOOT PADS FOR EXTRA DRIVER COMFORT.
- ADJUSTABLE CLUTCH & THROTTLE PEDAL STOPS.
- BRAKE AND CLUTCH PEDAL RATIO 4.66 : 1
- ALL THREADS METRIC.
- FORWARD & REAR TRAVEL STOPS
- DUAL MOUNTINGS FOR THROTTLE POTENTIOMETERS. MOUNTINGS AND SENSORS AVAILABLE IN SEPARATE KITS.
- WEIGHT 6.8kg APPROX WITHOUT CYLINDERS, 7.7kg APPROX WITH CYLINDERS.

PART NUMBER

CP5538-1 - PEDAL BOX ASSEMBLY

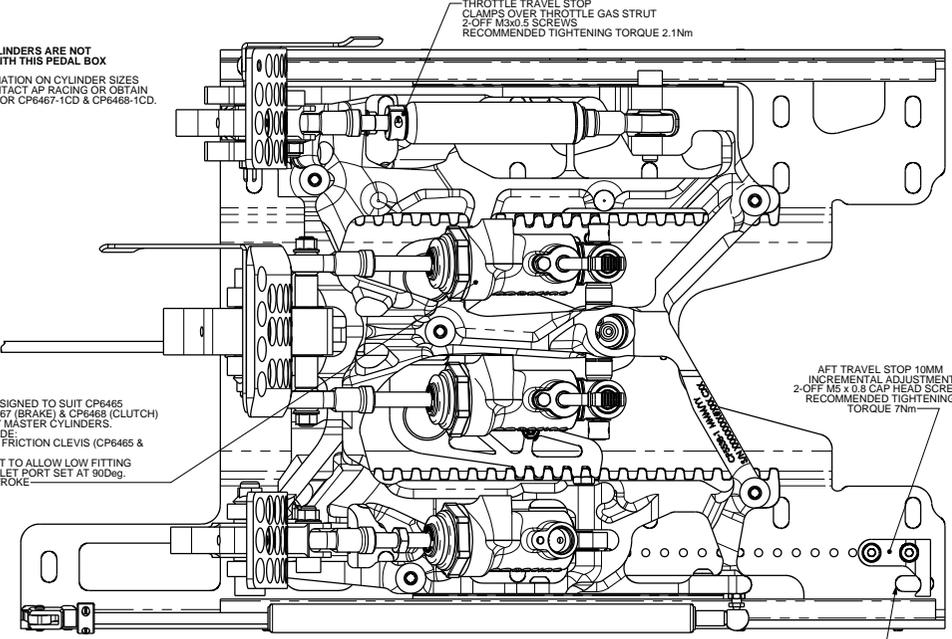


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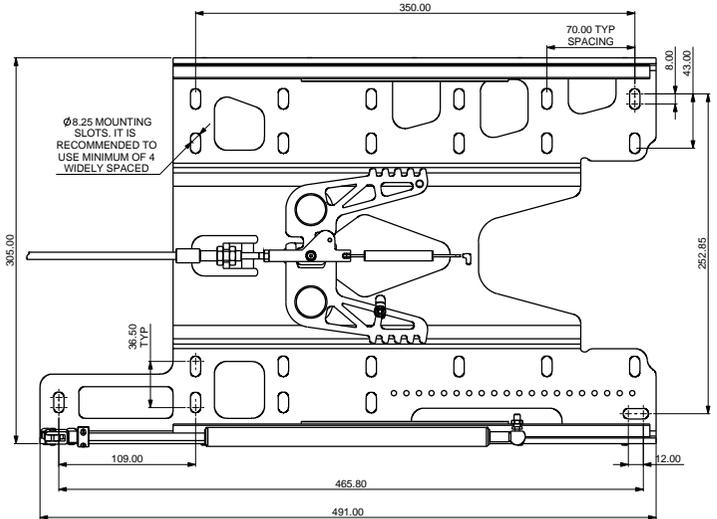
MASTER CYLINDERS ARE NOT SUPPLIED WITH THIS PEDAL BOX

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

- PEDAL BOX IS DESIGNED TO SUIT CP6465 (BRAKE) OR CP6467 (BRAKE) & CP6468 (CLUTCH) 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



MOUNTING TRAY DETAIL



Alterations		Zone	Issue
Date & No.	Particulars		
1 04/02/16 B7058	FIRST ISSUE		SAT
2 17/03/16 B7058	PEDAL RATIO DETAILS UPDATED ADDITIONAL MOUNTING SLOT ADDED TO TRAY		11M SAT
3 22/03/16 B7058	SHEET 2 CABLE ATTACHMENT DETAILS ADDED		SAT
4 17/08/16 B7601_01	CHANGES TO BASEPLATE AND CLUTCH AND THROTTLE PEDAL STOPS		DW
5 25/01/17 B7601_06	MOUNTING TRAY MODIFIED SHEET 3 CP5538-21 WAS -17 LOCKING MECH SUB ASSY SHEET 4 THROTTLE SENSOR OPTIONS ADDED SHEET 5 ADDED THROTTLE SENSOR AND RELEASE CABLE DETAILS		B2 SAT

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SCALE 1:1 SHEET 1 OF 5
 DRAWN Steve Thomas
 APPROVED
 DERIVED FROM
 TITLE
 FLOOR MTG REVERSE PULL
 TYPE SLIDING PEDAL BOX
 DRG NO. CP5538-1CD

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Alterations		Zone	Index
Date & No.	Particulars		
09/02	SEE SHEET 1 FOR ISSUE INFORMATION.		



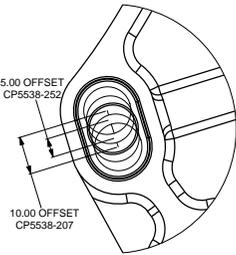
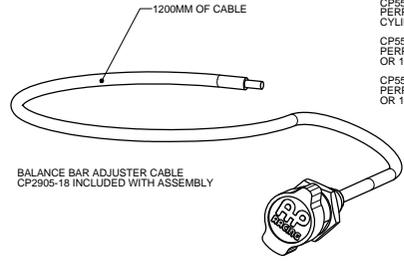
CP5538-1 PEDAL BOX WILL BE SUPPLIED WITH 1-OFF CP5538-206. OTHER OFFSET ADJUSTMENT BOBBINS CAN BE BOUGHT IN KIT CP5538-253 DETAILED ON SHEET 4.

BRAKE PEDAL RATIO ADJUSTMENT BOBBINS.

CP5538-206 - NOMINAL - 4.66:1 PERPENDICULAR LOADING AT 16.5mm CYLINDER TRAVEL

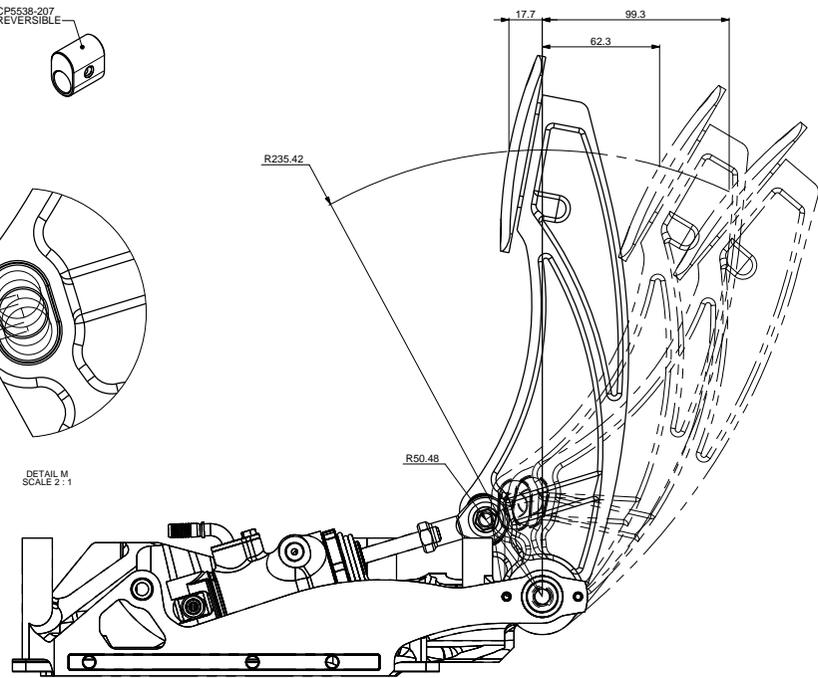
CP5538-252 - OFFSET - 4.89:1 OR 4.45:1 PERPENDICULAR LOADING AT 17.1mm OR 15.8mm CYLINDER TRAVEL

CP5538-207 - OFFSET - 5.14:1 OR 4.26:1 PERPENDICULAR LOADING AT 17.7mm OR 15.1mm CYLINDER TRAVEL



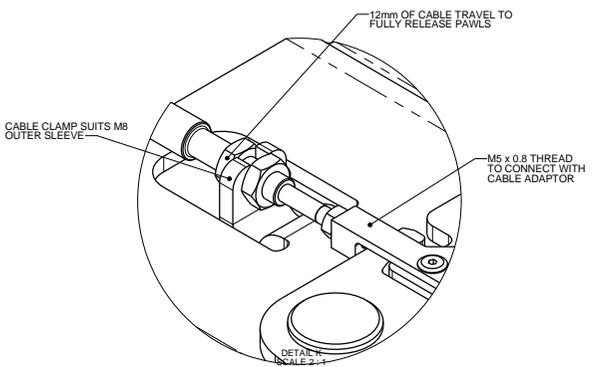
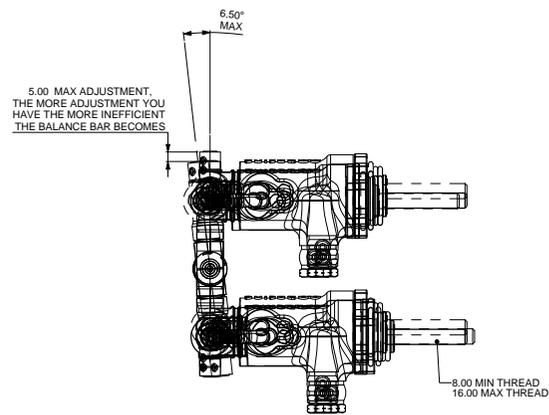
RECOMMENDED FALSE FLOOR POSITION. SPACERS MAY NEED TO BE USED

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CLUTCH PEDAL STOP



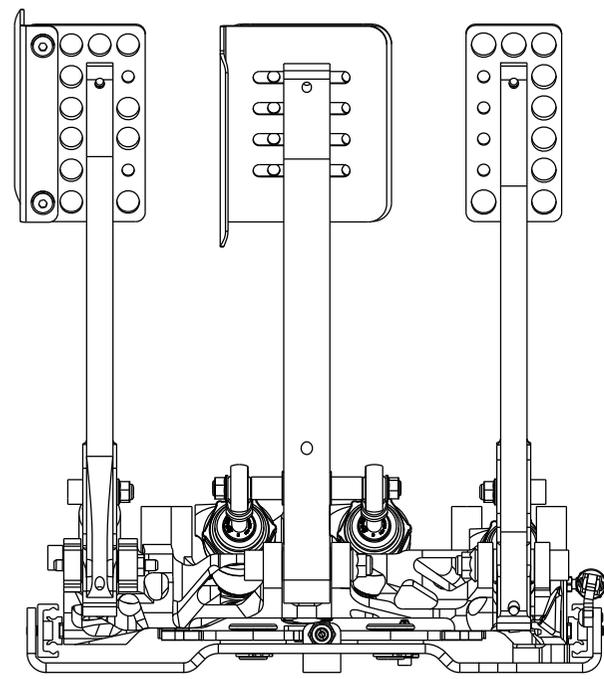
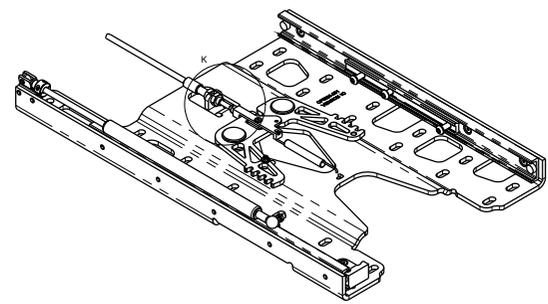
SETTING UP THE BALANCE BAR

ADJUST THE PUSHRODS SO THAT THE BALANCE BAR IS PERPENDICULAR TO THE PUSHRODS UNDER MAXIMUM LOAD. THE SYSTEM IS THEN SQUARE. IT IS NOT IMPORTANT THAT THE SYSTEM IS SQUARE WHEN RELEASED, BUT IT MUST BE WHEN UNDER LOAD.

FOR MAXIMUM EFFICIENCY, IT IS RECOMMENDED THAT THE PEDAL IS AT RIGHT ANGLE WITH THE PUSHRODS UNDER MAXIMUM BRAKING LOAD, AND ALSO KEEPING THE BALANCE BAR CENTRAL WITH BETTER SELECTION OF MASTER CYLINDER SIZES HELPS REDUCE INEFFICIENCIES.

ALSO MAKE SURE THAT THE MASTER-CYLINDER PISTONS FULLY RETURN BEFORE USE. THIS CAN BE CHECKED BY FEELING THE PUSHRODS FOR SLIGHT MOVEMENTS THERE SHOULD NOT BE ANY EXCESSIVE LOOSE MOVEMENT.

MAX ANGLE ADJUSTMENT AT SETUP (6.50°): THIS IS SET BY ADJUSTING THE THREAD ENGAGEMENT OF THE ROD END AND MASTER CYLINDER PISTON. THIS RELATES TO 8.0mm OF DIFFERENCE IN TRAVEL OF FRONT TO REAR CYLINDERS. REMEMBER THE BALANCE BAR SHOULD BE PERPENDICULAR WHEN AT MAX BRAKE PRESSURE.



SCALE 1:1	SHEET 2 OF 5
DRAWN Steve Thomas	
APPROVED	
DERIVED FROM CP5516-7	
TITLE FLOOR MTG REVERSE PULL TYPE SLIDING PEDAL BOX	
DRG NO. CP5538-1CD	

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FIRST ANGLE PROJECTION

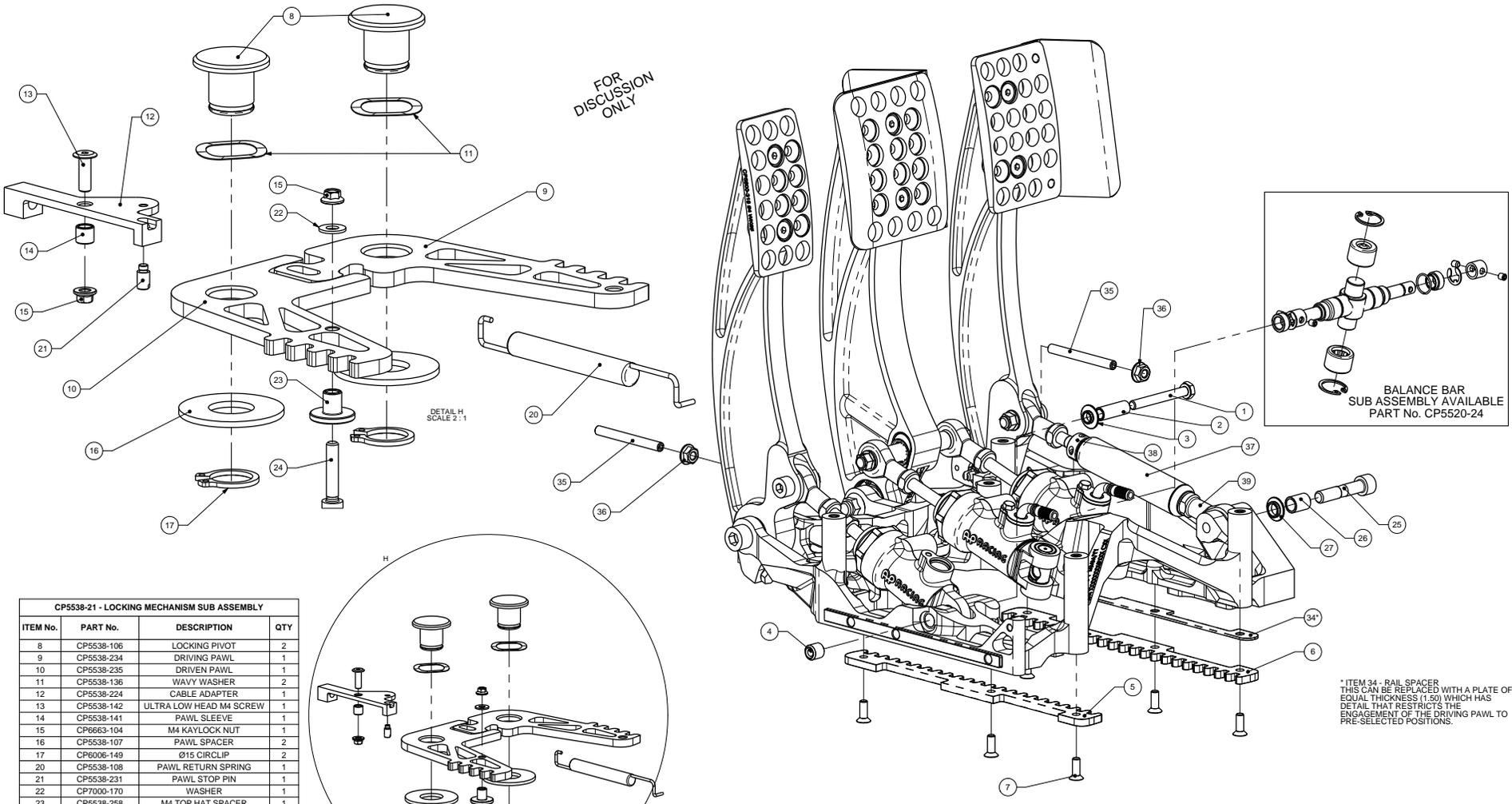
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Alterations		Particulars	Drawn	Checked
Date & No.				
		SEE SHEET 1 FOR ISSUE INFORMATION.		



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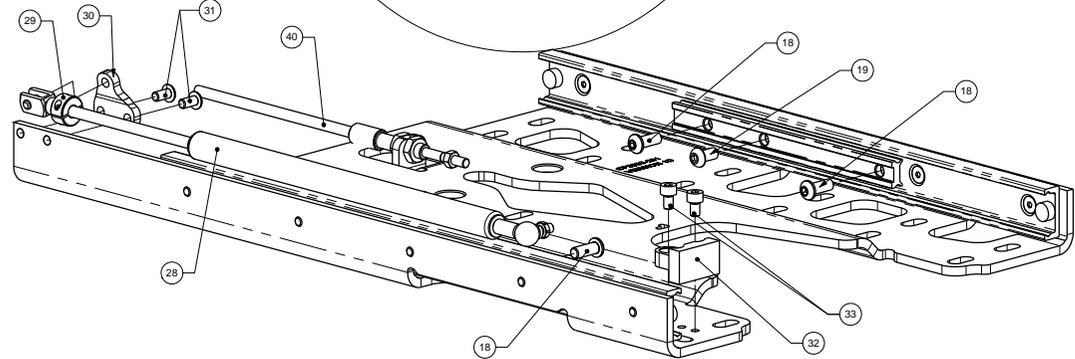
CP5538-21 - LOCKING MECHANISM SUB ASSEMBLY

ITEM No.	PART No.	DESCRIPTION	QTY
8	CP5538-106	LOCKING PIVOT	2
9	CP5538-234	DRIVING PAWL	1
10	CP5538-235	DRIVEN PAWL	1
11	CP5538-136	WAVY WASHER	2
12	CP5538-224	CABLE ADAPTER	1
13	CP5538-142	ULTRA LOW HEAD M4 SCREW	1
14	CP5538-141	PAWL SLEEVE	1
15	CP6663-104	M4 KAYLOCK NUT	1
16	CP5538-107	PAWL SPACER	2
17	CP6006-149	Ø15 CIRCLIP	2
20	CP5538-108	PAWL RETURN SPRING	1
21	CP5538-231	PAWL STOP PIN	1
22	CP7000-170	WASHER	1
23	CP5538-258	M4 TOP HAT SPACER	1
24	CP5363-143	M4 x 20 CAP HEAD SCREW	1

* ITEM 34 - RAIL SPACER
THIS CAN BE REPLACED WITH A PLATE OF EQUAL THICKNESS (1.50) WHICH HAS DETAIL THAT RESTRICTS THE ENGAGEMENT OF THE DRIVING PAWL TO PRE-SELECTED POSITIONS.

ITEM No.	PART No.	DESCRIPTION	QTY
1	CP5538-243	M6 x 50 HEX HEAD BOLT	1
2	CP5538-122	SLEEVE	1
3	CP5538-143	TOP HAT SPACER	1
4	CP5520-156	M6 KEENSERT	1
5	CP5538-104	LH LOCKING RAIL	1
6	CP5538-105	RH LOCKING RAIL	1
7	CP5538-115	M5 CSK SCREW	6
8	CP5538-106	LOCKING PIVOT	2
9	CP5538-234	DRIVING PAWL	1
10	CP5538-103	DRIVEN PAWL	1
11	CP5538-136	WAVY WASHER	2
12	CP5538-224	CABLE ADAPTER	1
13	CP5538-142	ULTRA LOW HEAD M4 SCREW	1
14	CP5538-141	PAWL SLEEVE	1
15	CP6663-104	M4 KAYLOCK NUT	1
16	CP5538-107	PAWL SPACER	2
17	CP6006-149	Ø15 CIRCLIP	2
18	CP5144-106ST	M6 x 16 BUTTON HEAD SCREW	4
19	CP3160-106ST	M6 x 12 BUTTON HEAD SCREW	2
20	CP5538-108	PAWL RETURN SPRING	1
21	CP5538-231	PAWL STOP PIN	1

ITEM No.	PART No.	DESCRIPTION	QTY
22	CP7000-170	WASHER	1
23	CP5538-258	M4 TOP HAT SPACER	1
24	CP5363-143	M4 x 20 CAP HEAD SCREW	1
25	CP3344-138	M8 x 40 BOLT	1
26	CP5538-214	SLEEVE	1
27	CP5538-213	TOP HAT SPACER	1
28	CP5538-109	RETURN GAS STRUT	1
29	CP5538-118	SHAFT COLLAR	1
30	CP5538-256	GAS STRUT BRACKET	1
31	CP9440-116ST	M4 x 10 BUTTON HEAD SCREW	2
32	CP5538-218	REAR TRAVEL STOP	1
33	CP3749-110	M5 x 8 CAP HEAD	2
34	CP5538-236	LOCKING RAIL SPACER	1
35	CP5538-238	M6 x 60 FLAT GRUB SCREW	2
36	CP2580-135	M6 NUT	2
37	CP5538-241	THROTTLE GAS STRUT	1
38	CP5538-223	SHAFT COLLAR	1
39	CP5506-106	M8 ROD END	5
40	CP5538-257	RELEASE CABLE	1



SCALE 1:1 SHEET 3 OF 5
DRAWN Steve Thomas
APPROVED
DERIVED FROM
TITLE
FLOOR MTG REVERSE PULL
TYPE SLIDING PEDAL BOX
DRG No. CP5538-1CD

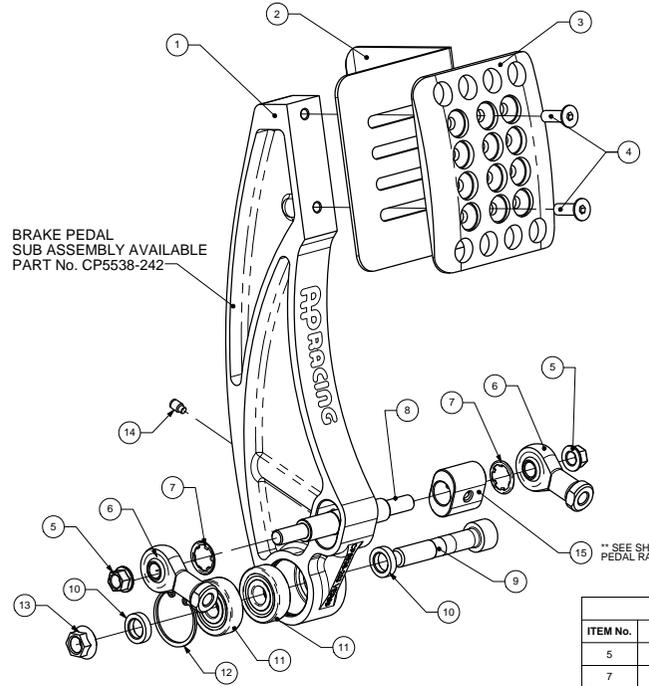
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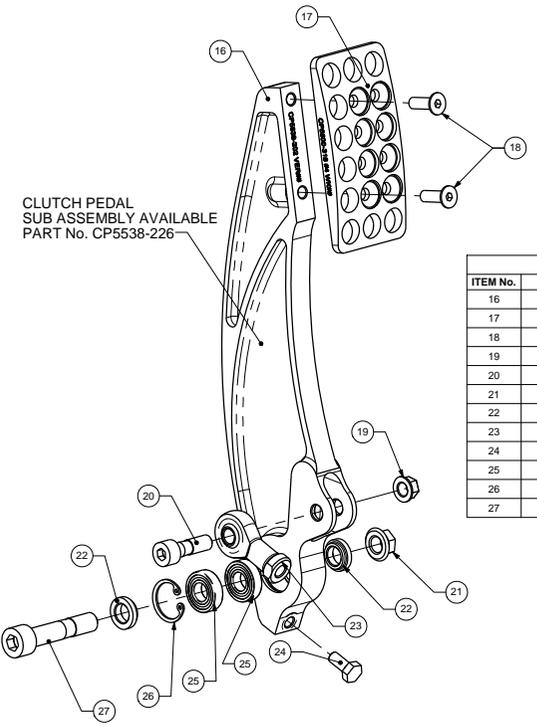


BRAKE PEDAL SUB ASSEMBLY AVAILABLE PART No. CP5538-242

BRAKE PEDAL				
ITEM No.	PART No.	DESCRIPTION	QTY	
1	CP5538-203	BRAKE PEDAL	1	
2	CP5538-210	GUARD PLATE	1	
3	CP5500-330	FOOTPAD	1	
4	CP3881-104	M6 x 20 CSK SCREW	2	
5	CP4611-111	M8 KAYLOCK NUT	2	
6	CP5506-106	M8 ROD END	2	
7	CP5516-124	GRIP RING	2	
8	CP5506-110	BRAKE PULL ROD	1	
9	CP5200-108	M10 x 58 CAP HEAD	1	
10	CP5516-108	SPACER	2	
11	CP5516-106	BEARING	2	
12	CP5516-107	CIRCLIP	1	
13	CP5427-101	M10 KAYLOCK NUT	1	
14	CP4325-122	M5 x 8 GRUB SCREW	1	
15A	CP5538-206	PEDAL RATIO BOBBIN - NOM	1	
15B	CP5538-207	PEDAL RATIO BOBBIN - OFFSET	1	
15C	CP5538-252	PEDAL RATIO BOBBIN - OFFSET	1	

** SEE SHEET 2 FOR DIFFERENT PEDAL RATIO BOBBINS

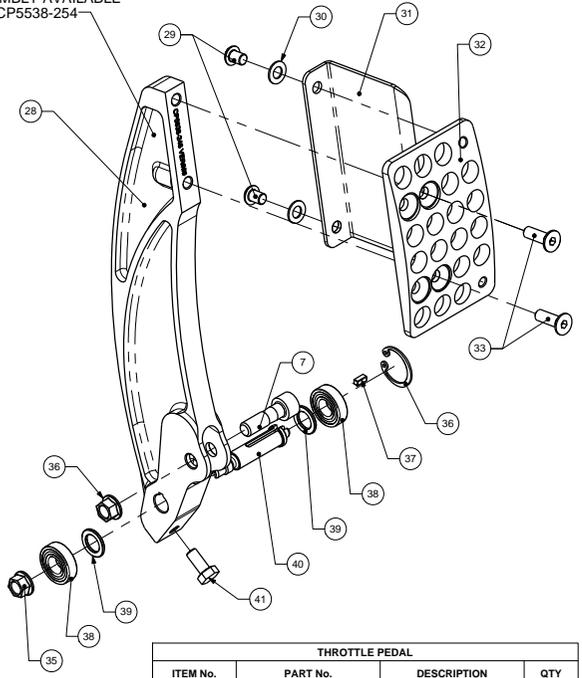
CP5538-253 - BRAKE PEDAL RATIO BOBBIN KIT				
ITEM No.	PART No.	DESCRIPTION	QTY	
5	CP4611-111	M8 KAYLOCK NUT	2	
7	CP5516-124	GRIP RING	2	
15A	CP5538-206	PEDAL RATIO BOBBIN - NOM	1	
15B	CP5538-207	PEDAL RATIO BOBBIN - OFFSET	1	
15C	CP5538-252	PEDAL RATIO BOBBIN - OFFSET	1	



CLUTCH PEDAL SUB ASSEMBLY AVAILABLE PART No. CP5538-226

CLUTCH PEDAL				
ITEM No.	PART No.	DESCRIPTION	QTY	
16	CP5538-202	CLUTCH PEDAL	1	
17	CP5500-318	FOOTPAD	1	
18	CP3881-104	M6 x 20 CSK SCREW	2	
19	CP4611-111	M8 KAYLOCK NUT	1	
20	CP2494-2061	M8 x 27 CAP HEAD	1	
21	CP5427-101	M10 KAYLOCK NUT	1	
22	CP5516-141	SPACER	2	
23	CP5506-106	M8 ROD END	1	
24	CP3125-122	M6 x 13 HEX SCREW	1	
25	CP5516-140	BEARING	2	
26	CP5516-162	CIRCLIP	1	
27	CP2561-105	M10 x 50 CAP HEAD	1	

THROTTLE PEDAL SUB ASSEMBLY AVAILABLE PART No. CP5538-254

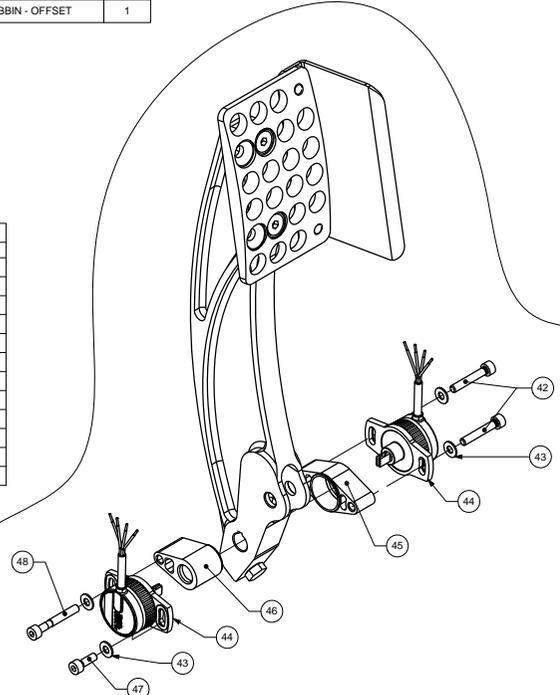


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THROTTLE PEDAL				
ITEM No.	PART No.	DESCRIPTION	QTY	
28	CP5538-246	THROTTLE PEDAL	1	
29	CP2749-194	M6 x 8 SCREW	2	
30	CP2494-1305	WASHER	2	
31	CP5516-164	GUARD PLATE	1	
32	CP5516-167	FOOT PAD	1	
33	CP3881-104	M6 x 20 SCREW	2	
34	CP2494-2061	M8 x 27 CAP HEAD	1	
35	CP4611-111	M8 KAYLOCK NUT	2	
36	CP5516-162	CIRCLIP	1	
37	CP5540-209	KEY	1	
38	CP5516-140	BEARING	2	
39	CP5538-208	SPACER	2	
40	CP5538-240	PIVOT SHAFT	1	
41	CP3125-122	M6 x 13 HEX SCREW	1	

THROTTLE SENSOR OPTIONS

THROTTLE SENSOR SPACER KIT - CP5538-19				
ITEM No.	PART No.	DESCRIPTION	QTY	
42	CP7350-109	M4x25 CAP HEAD BOLT	2	
43	CP7000-170	M4 WASHER	4	
45	CP5538-221	THROTTLE SENSOR DOUBLE SPACER	1	
46	CP5538-222	THROTTLE SENSOR SINGLE SPACER	1	
47	CP3215-115	M4x12 CAP HEAD SCREW	1	
48	CP7742-108	M4x30 CAP HEAD BOLT	1	
THROTTLE SPACER AND SENSOR KIT - CP5538-20				
CP5538-20 INCLUDES CP5538-19 WITH THE ADDITION OF CP5540-220 SENSOR				
44	CP5540-220	ROTARY CONTACTLESS SENSOR	2	



Alterations		Date & No.	Particulars	Drawn	Checked
9	39-22		SEE SHEET 1 FOR ISSUE INFORMATION.		

SCALE 1:1 SHEET 4 OF 5
 DRAWN Steve Thomas
 APPROVED
 DERIVED FROM CP5516-7
 TITLE FLOOR MTG REVERSE PULL TYPE SLIDING PEDAL BOX
 DRG NO. CP5538-1CD

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THROTTLE SENSOR DETAIL

PERFORMANCE

Electrical	
Measurement range	20° to 360° in 1° increments
Supply voltage	Vdc 9 to 30 (unregulated) and 5 ±0.5 (regulated)
Over voltage protection	Vdc Up to 40 (-40 to +60°C)
Maximum supply current	mA <25
Reverse polarity protection	Yes
Short circuit protection	Yes
Output to GND	Yes
Output to supply	In 5V regulated mode only
Power-on settlement time	S <1
Resolution	% 0.025 of measurement range (12 bit)
Non-linearity*	% <±0.4
Temperature coefficient ppm/°C	<±30 in 5V supply mode; <±90 in 9-30V supply mode

* Non-linearity is measured using the least-squares method on a computerised calibration system

Analog Output

Voltage output range	
9-30V supply	Vdc Absolute voltage, 0.1 to 4.9 over measurement range (±3%)
5V supply	Vdc Ratiometric output voltage - 2 to 98% (A4) of Vs over measurement range (±1%)
Monotonic range	Vdc 0.05 (1%) and 4.95 (99%) nominal
Load resistance	10k minimum (resistive to GND)
Output noise	mVrms <1
Input/output delay	mS <2

Mechanical

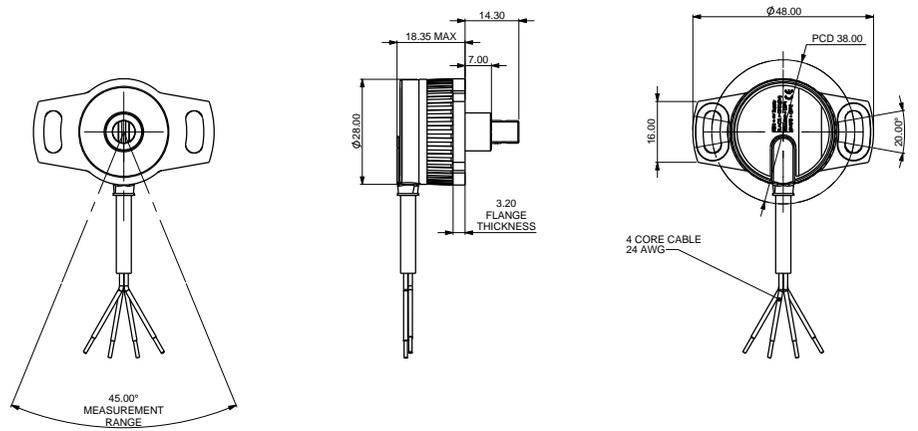
Mechanical angle	° 360, continuous
Operating torque	g-cm 120 Max
Weight	g <35
Mounting	Use 2 x M4 socket head cap screws and M4 washer - maximum tightening torque 2Nm
Phasing	When shaft ident mark is facing toward the cable exit, output is at mid travel. The sensor housing allows for ±10° adjustment via the mounting flange slots.

Environment

Protection class	IP68 (to 2m depth for 1 hour)
Life	20 million operations (10 x 106 cycles) of ±75°
Dither life	Contactless - no degradation due to shaft dither
Operational temperature† °C	-40 to +140 (5V supply) -40 to +135.7 (9V supply) Derate upper temperature limit by 1.7°C for every 1V increase in supply: e.g. -40 to +100 @30V -55 to +140
Storage temperature °C	-55 to +140
Vibration	BS EN 60068-2-64:1995 Sec 8.4 (31.4gn rms) 20 to 2000Hz Random
Shock	3m drop onto concrete
EMC Immunity level	BS EN 61000-4-3:1999, to 100V/m, 80MHz to 1GHz and 1.4GHz to 2.7GHz (2004/108/EC)

Other

Measurement Range	° 45 both channels
Output	Analog voltage
Output direction	Channel 1 clockwise, Channel 2 anti-clockwise
Cable length	0.5m

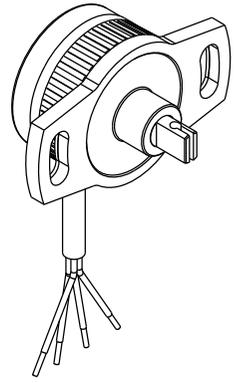


Electrical Connections

4-core cable: FDR-25 sheathed, with 55A spec (24AWG) cores

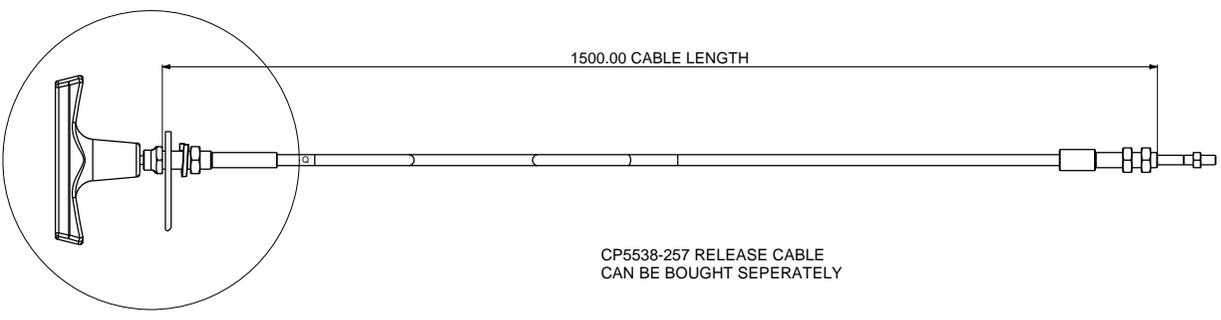
Cable colour	Description
Red	+V Supply
Yellow	Output 1
White	Output 2
Black	0V Supply (GND)

When connecting the sensor, care should be taken with the correct connections. The sensor is provided with reverse polarity protection and short circuit protection between outputs (Yellow & White) to GND (Black), but if the outputs (Yellow & White) are connected to the supply this will result in device failure.



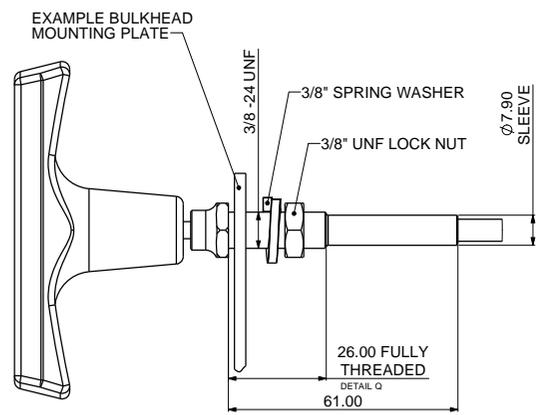
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RELEASE CABLE DETAIL



CP5538-257 RELEASE CABLE
 CAN BE BOUGHT SEPERATELY

RELEASE CABLE MOUNTING DETAIL



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

SCALE 2:1	SHEET 5 OF 5
DRAWN Steve Thomas	
APPROVED	
DERIVED FROM	
TITLE CONTACTLESS ROTARY SENSOR	
DRG NO. CP5538-1CD	

FOR DISCUSSION ONLY