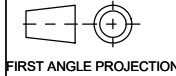


# A2 INSTALLATION DRAWING

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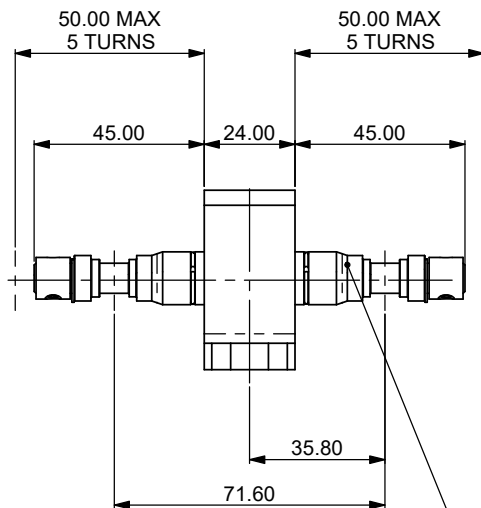


**AP Racing**  
Wheler Road  
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CV3 4LB

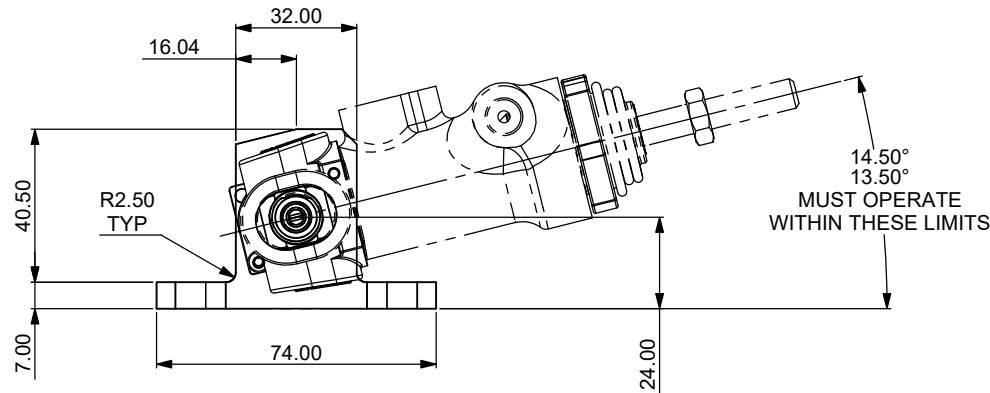
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BALANCE BAR SHOWN CENTRAL

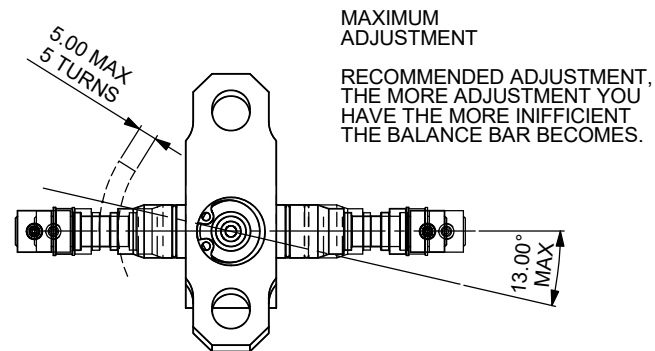
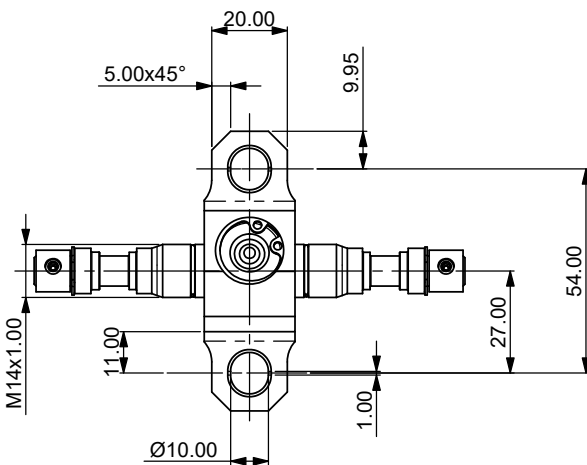


## PART NUMBERS

CP5520-3 - BALANCE BAR AS SHOWN.

**GENERAL DESCRIPTION:-**  
THIS SMALL AND COMPACT BALANCE BAR USES NEEDLE ROLLER BEARINGS, TO PROVIDE LOW HYSTERESIS AND HIGH EFFICIENCY. THIS SPECIFIC VERSION IS DESIGNED TO FIT AT THE FIXED END OF AN ARRANGMENT AND DESIGNED TO WORK WITH OUR CP6465, CP7854 MASTER CYLINDERS, AS SHOWN. SEE OUR RECOMMENDED LIMITS ON BALANCE BAR ADJUSTMENT.

**IMPORTANT BALANCE BAR LIFE INFORMATION - ABS APPLICATIONS**  
IT IS RECOMMENDED THAT THE BALANCE BAR, E-CLIPS AND SNAP RINGS ARE REPLACED AFTER 15,000Km OF USE IN HIGH PRESSURE ABS APPLICATIONS, SEE SHEET 4 FOR RELEVANT PART NUMBERS.



Issue No.	Alterations		Zone	Initials
	Date & No.	Particulars		
1	28/10/04 B4103	FIRST ISSUE		JH
2	30/11/04 B4096	BOOT NUMBERS CORRECTED		CDA
3	11/02/05 B4169	SPARE PARTS CHART REPLACES SEPARATE ITEMS LIST. ASSEMBLY NOTES AND EXPLODED VIEW BALLOON NUMBERS MODIFIED TO SUIT. CORRECTION: 50.0 MAX WAS 49.5	H1	DRA
4	16/10/07	ADDITIONAL INSTALLATION DIMENSIONS ADDED.		CDA
5	09/10/2008	BALANCE BAR AND EXTRAS UPDATED.		CDA
6	11/03/2013 B6028	BALANCE BAR HOUSING UPDATED TO LATEST SPEC.		CDA
7	15/07/22 B8281_01	SHEET 1 IMPORTANT BALANCE BAR LIFE INFORMATION NOTE ADDED	C8	TS

SCALE 1:1 SHEET 1 OF 2

DRAWN Chris Arrowsmith

APPROVED

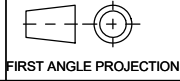
DERIVED FROM

TITLE  
HIGH EFFICIENCY BALANCE BAR ASSEMBLY

DRG NO. CD5520-3CD

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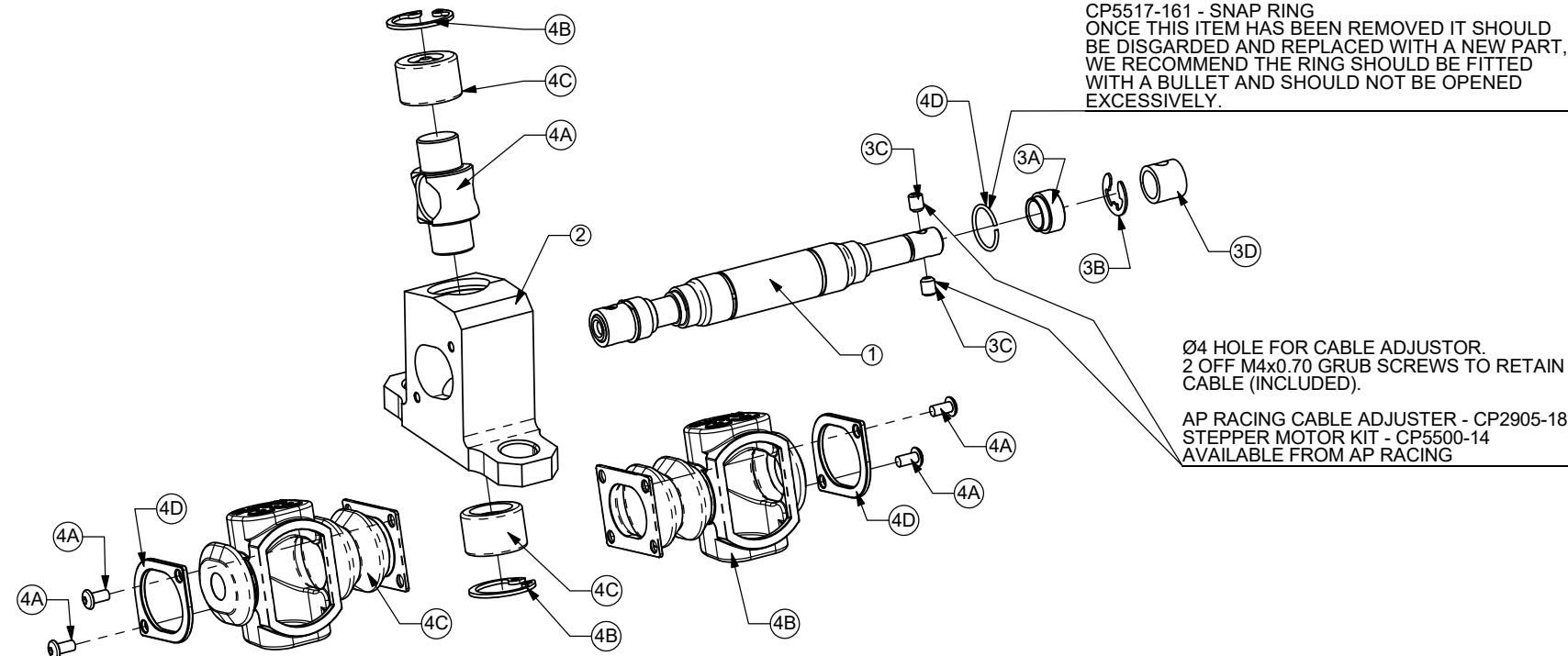


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Issue No.	Alterations		Zone	Initials
	Date & No.	Particulars		



CP5517-161 - SNAP RING  
ONCE THIS ITEM HAS BEEN REMOVED IT SHOULD BE DISCARDED AND REPLACED WITH A NEW PART, WE RECOMMEND THE RING SHOULD BE FITTED WITH A BULLET AND SHOULD NOT BE OPENED EXCESSIVELY.

Ø4 HOLE FOR CABLE ADJUSTOR.  
2 OFF M4x0.70 GRUB SCREWS TO RETAIN CABLE (INCLUDED).  
AP RACING CABLE ADJUSTOR - CP2905-18  
STEPPER MOTOR KIT - CP5500-14  
AVAILABLE FROM AP RACING

## BALANCE BAR ASSEMBLY INSTALLATION

### A. FITTING THE CLEVIS TO THE BALANCE BAR

1. PUSH THE CLEVIS SUB-ASSY (3) ON TO BALANCE BAR(1).
2. PUSH THE WASHER (3A) AGAINST THE CLEVIS SUB-ASSY(3)
3. PUSH CIRCLIP (3B) INTO PLACE ON BALANCE BAR (1) TO HOLD CLEVIS SUB-ASSY (3) IN PLACE.
4. FIT REMAINING SLEEVE (3D) & GRUB SCREWS (3C).

### B. SETTING UP THE BALANCE BAR

1. INSTALL M8 NUTS PROVIDED ON MASTER-CYLINDER PUSHRODS.
  2. 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 HAS TO BE 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.

SPARE PARTS, SUB-ASSEMBLIES OR KITS					
REF	PART No.	DESCRIPTION	REF	DESCRIPTION	KIT QTY / ASS
1	CP5517-157	BALANCE BAR	-	-	1 1
2	CP5520-187	EMPTY HOUSING	-	-	1 1
3	CP5517-30	BALANCE BAR EXTRAS KIT	3A	BALANCE BAR SPACER	2 2
			3B	CIRCLIP	2 2
			3C	M4 GRUB SCREW	4 2
			3D	SLEEVE	2 1
4	CP5508-25	BALANCE BAR TRUNNION KIT	4A	TRUNNION	1 1
			4B	CIRCLIP	2 2
			4C	BEARING	2 2
			4D	SNAP RING	2 2

SCALE 1:1 SHEET 2 OF 2

DRAWN Chris Arrowsmith

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HIGH EFFICIENCY BALANCE BAR ASSEMBLY

DRG NO. CD5520-3CD