

SUPERCAR LITES

Technical Bulletin

Number	SCL_TB_007	Date	28.05.2018
Revision	001	Issuer	SuperCarLites
Non Progressive and Progressive Rear Push Rods AV4015 & AV4145			

It has been stated on the SuperCarLitesUser Manual - Rev02 Page 9, that there are two modes of operation for the rear suspension:

- A) Non-Progressive Motion – utilizing Pushrod Rear Non-Progressive Assembly: AV4015
- B) Progressive Motion – utilizing Pushrod Rear Progressive Assembly:AV4145

The nominal lengths for both pushrods has been assigned as: AV4015: 300mm and AV4145: 330mm, where the adjustment range has been defined as +/-15mm for both units.

7.2.2 REAR BELLCRANK SETTINGS

There are two operations modes for the rear suspension:

- A) Pushrod Length l=300mm: Non-Progressive Motion
Pushrod color: Silver Gray, code AV4015
- B) Pushrod Length l=330mm: Progressive Motion
Pushrod color: Yellow, code AV4145

Both modes have three individual stiffness options providing different motion ratios, accompanied with different wheel travel values. Predefined rear bellcrank positions and their effects on suspension motion ratios are:

Pushrod Length	Bellcrank Mounting Point	Wheel Travel (mm)	Motion Ratio	
			Full Rebound	Full Compression
Non-Progressive Motion				
A - 300mm	1	240	0,58	0,71
A - 300mm	2	210	0,66	0,83
A - 300mm	3	180	0,83	0,90
Progressive Motion				
B - 330mm	4	240	0,50	0,77
B - 330mm	5	210	0,58	0,90
B - 330mm	6	180	0,66	1,11

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Picture 1: SuperCarLitesUser Manual Rev.02 Showing Rear Bellcrank Settings

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Both pushrods are drawn in detail in the SuperCarLites Spare Parts Catalogue – Rev06 Pages 55 & 56. According to the detailed drawings:

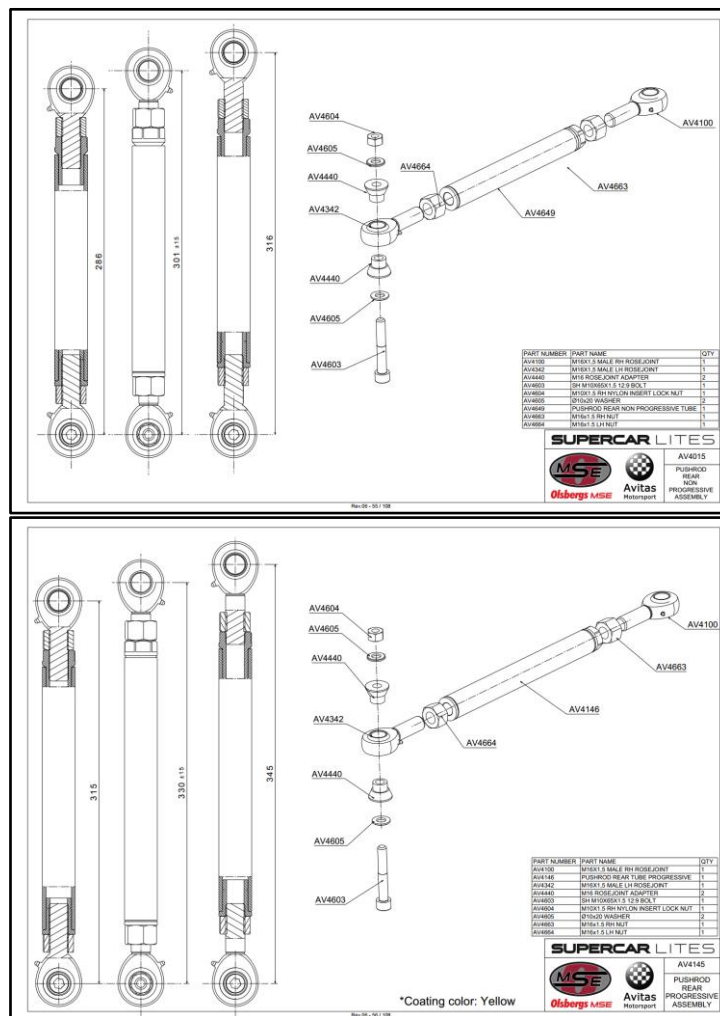
AV4015, Pushrod Rear Non-Progressive Assembly, uses AV4649 as the main tube.

AV4649 net length is: 205mm

AV4145, Pushrod Rear Progressive Assembly, uses AV4146 as the main tube (yellow)

AV4146 net length is: 235mm

It must be noted that correct tubes must be used for correct modes of operation.



Picture 2: SuperCarLitesSparePartsCatalogueRev06 ShowingRearPushrodAssemblies