

•MEI• BRAKES FOR THE LONG HAUL





# **IDENTIFICATION - L SERIES CALIPERS (KNORR)**

MEI Air Disc Brake Calipers are identified by the part number which is marked on the ID plate. After a long life in service or while still on the vehicle it can be difficult to read the information on the ID plate. Therefore the following can be useful in assisting identification.



# Mounting Angle

First, check the air chamber mounting angle. This ranges from  $-12^{\circ}$  to  $+8^{\circ}$ .

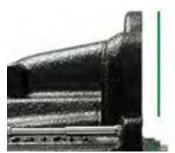
-120

00

+50

+80









For radial calipers (LNR225) the mounting angle ranges from +86° to +93°.

+860

+930





# **Guide Sleeve**

Next, check if the Long Guide Sleeve is on the Left or Right as shown.





#### Size

Confirm the brake size. If there are bolts visible as shown in picture 1 (see below), attaching the cover plate to the housing, the brake is either LB195, LC225 or LA225.

- Measure the caliper at its widest point. If the caliper is 350mm diameter it is an LB195 brake.
- If the caliper is 375mm diameter it is either an LC225 or an LA225 brake. You can either:
  - Measure the diameter of the steel tappet head as shown in picture 2 (below). If the tappet head is 65mm wide it is an LC225. If it is 58mm wide it is an LA225.
  - Measure the distance between the guide sleeves as shown in picture 3 below. If the distance is 278mm it is an LA225. If it is 266mm it is an LC225.







If there are no bolts visible it is an LB225, LV225 or LNR225 brake. The mounting angle of the LNR brake (see earlier) makes it easy to identify. To distinguish between the LB225 and the LV225:

• Measure the diameter of the steel tappet head as shown in picture 2 above. If the tappet head is 65mm wide it is an LB225. If it is 58mm wide it is an LV225.

Tip: To distinguish between the LC225 and the LA225, or the LB225 and LV225, examine the steel tappet heads. Notice how the tappet heads are more prominent on the LC225 / LB225 (left) than on the LA225 / LV225 (right).





There are two other measurements that can help to identify the caliper.

The rotor diameter will be 377mm for LB195 brakes. For all other brakes it will be 430mm.

The pad width is 248mm for LNR225 and LB225 brakes. It is 245mm for LV225 brakes, 208mm for LA225 brakes and 211mm for LC225 and LB195 brakes.

## Fitment Type

Check the pad wear sensor cable fitment type on the chain cover - it can be without sensor (left) or with sensor (right).





The pad wear sensor types are shown below:

On/Off-old On/Off-new Linear

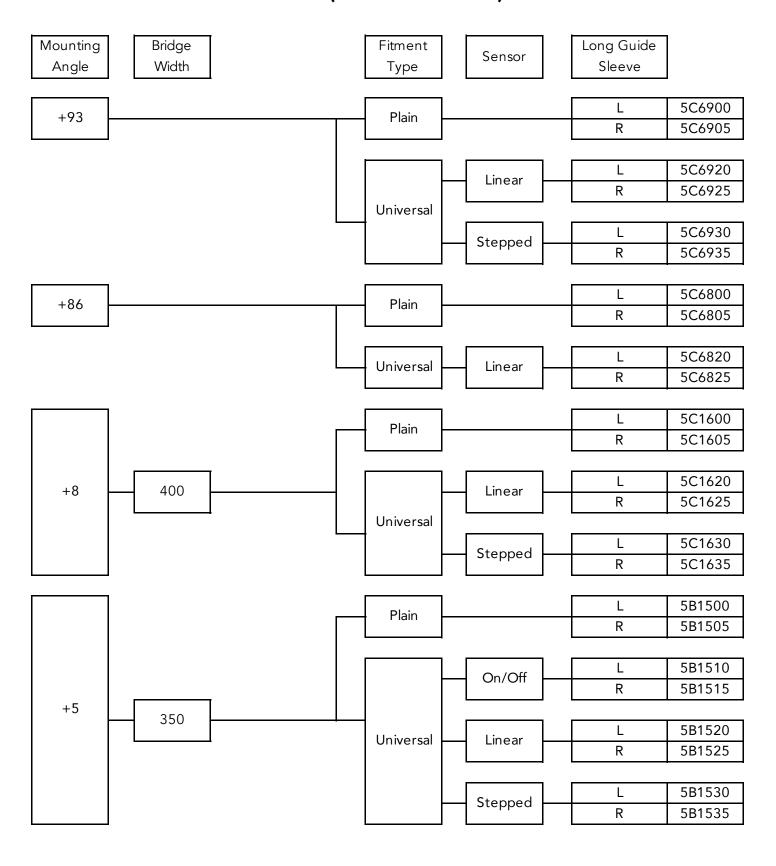


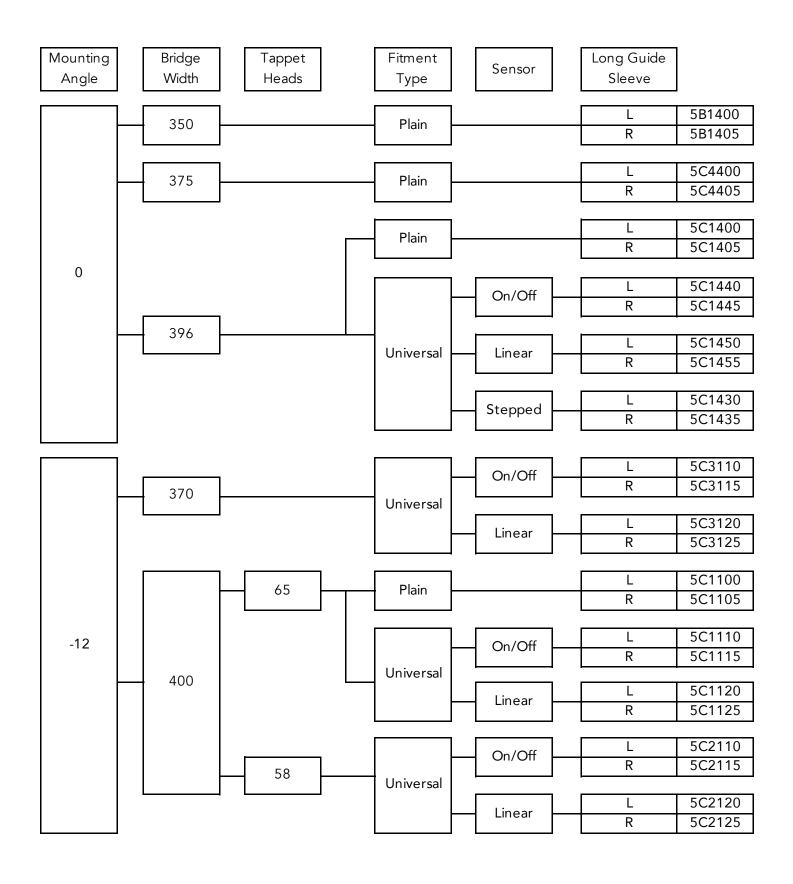




If you have determined the type of caliper, the position of the long guide sleeve, the mounting angle and the fitment type then you should be able to identify the MEI part number. The next two pages will help with this process.

# **IDENTIFICATION - QUICK GUIDE (KNORR CALIPERS)**





# **IDENTIFICATION - N SERIES CALIPERS (MERITOR)**

MEI Air Disc Brake Calipers are identified by the part number which is marked on the ID plate. After a long life in service or while still on the vehicle it can be difficult to read the information on the ID plate. Therefore the following can be useful in assisting identification.



## Mounting Angle

Check the air chamber mounting angle. This can either be +81 (NR225) or 0 degrees.



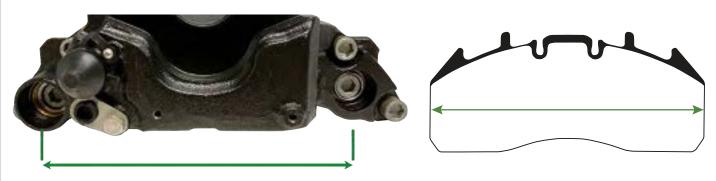
+810



00

#### Size

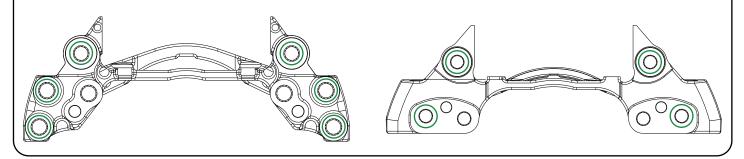
Measure the distance between the centre of the guide sleeves. It will either be 305mm (NR225 or NT225) or 264mm (NV225, NX225, NV195 & NX195).



Measure the width of the pads. They will be either 250mm wide (NR225 or NT225), 216mm wide (NV225 or NX225) or 210mm wide (NV195 or NX195).

## **Carrier Mount**

Check the carrier - there will be 6 x M20 bolts (NR225, NT225, NV225 & NV195 or 4 x M18 bolts (NX225 & NX195).



# **Guide Sleeve**

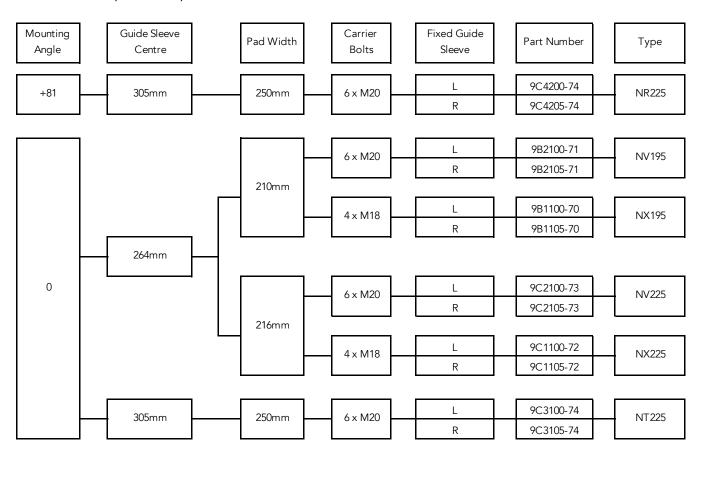
Finally, check if the Long Guide Sleeve is on the Left or Right as shown.



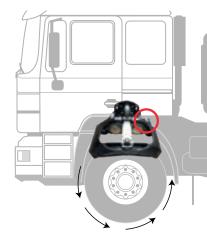


# Identification Guide

Once you have identified the mounting angle etc. you should be in a position to identify the caliper part number. The table below will help with this process.



# TYPICAL INSTALLATION POSITIONS



Looking at the wheel or Outboard Side:





12 o'clock Mount Long Guide Sleeve Leading



Long Guide Sleeve on the Left

If the brake is fitted at 12 o'clock the long guide sleeve is leading.

9 o'clock Mount Long Guide Sleeve Leading



Long Guide Sleeve on the Left

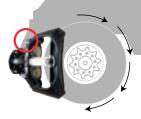
3 o'clock Mount Long Guide Sleeve Trailing



Long Guide Sleeve on the Right

If the brake is fitted to the front or rear of the axle (3 o'clock or 9 o'clock) then it normally hangs from the long pin:
- if in front (9 o'clock) the long pin is leading
- if at the back (3 o'clock) the short pin is leading

# Looking at the wheel or Outboard Side:



9 o'clock Mount Long Guide Sleeve Trailing



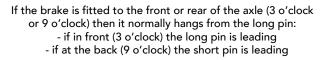
Long Guide Sleeve on the Left

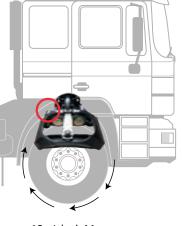


3 o'clock Mount Long Guide Sleeve Leading



Long Guide Sleeve on the Right





12 o'clock Mount Long Guide Sleeve Leading



Long Guide Sleeve on the Right

If the brake is fitted at 12 o'clock the long guide sleeve is leading.

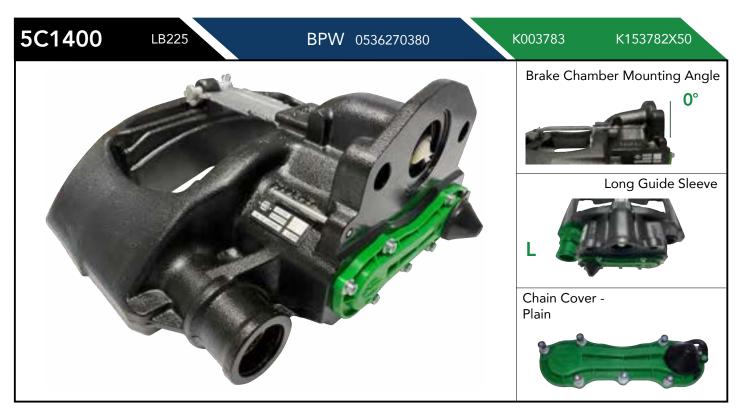
















































































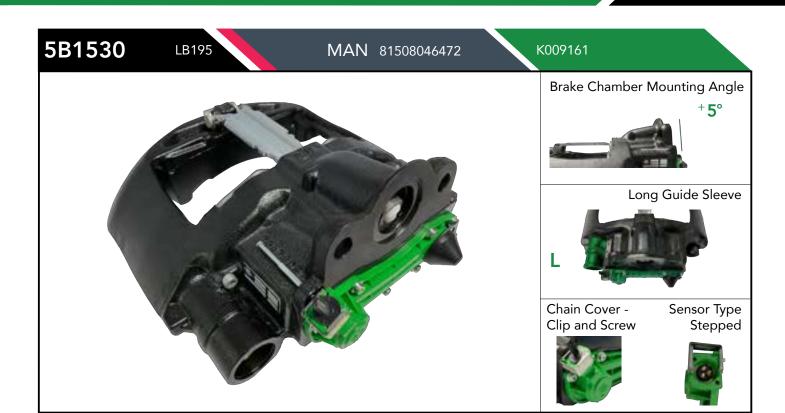








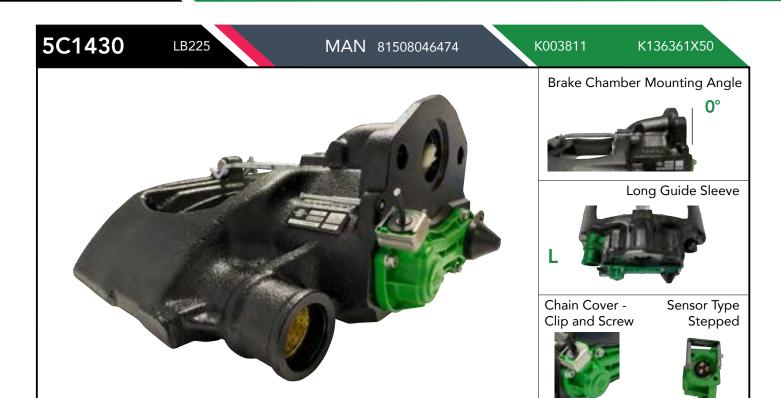
















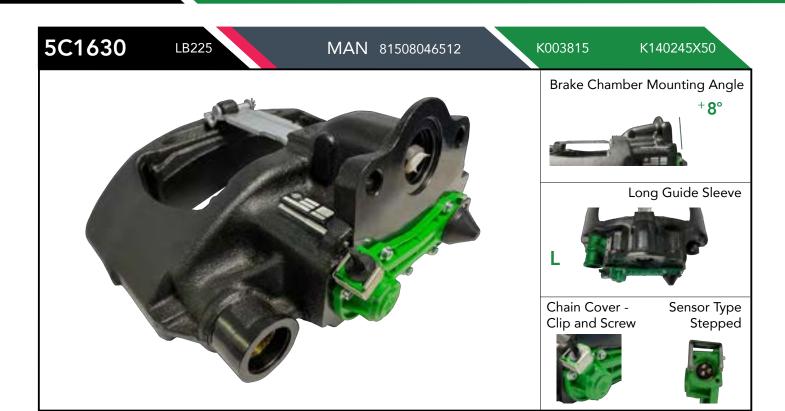
















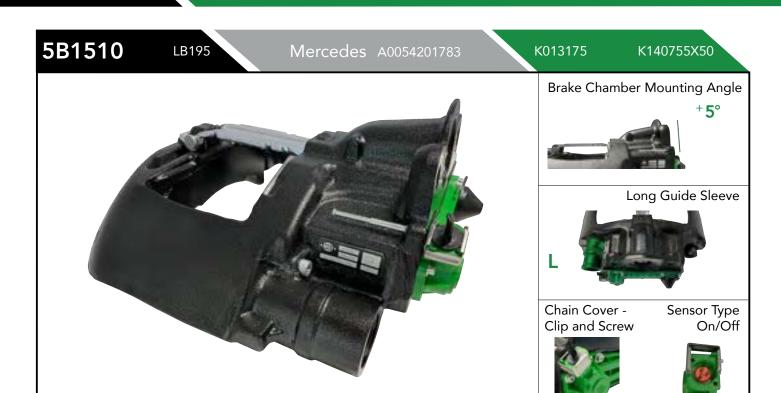








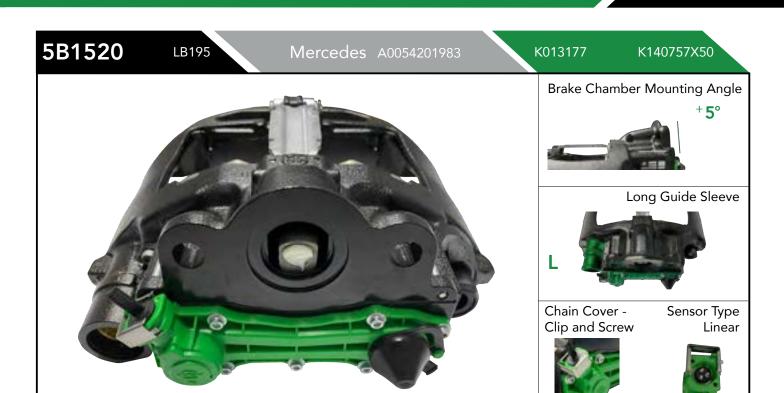
























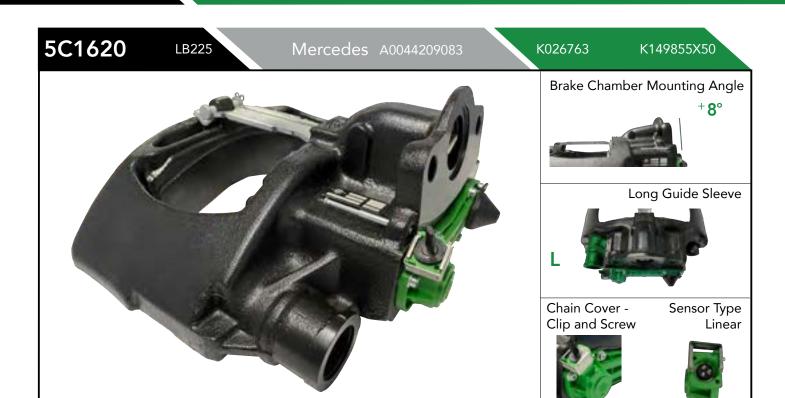
















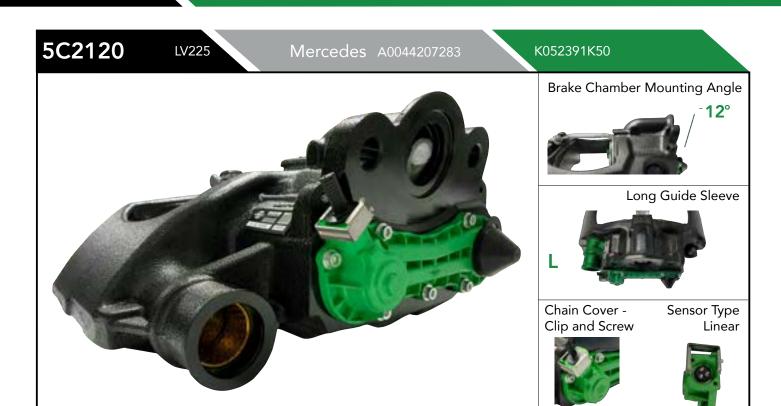




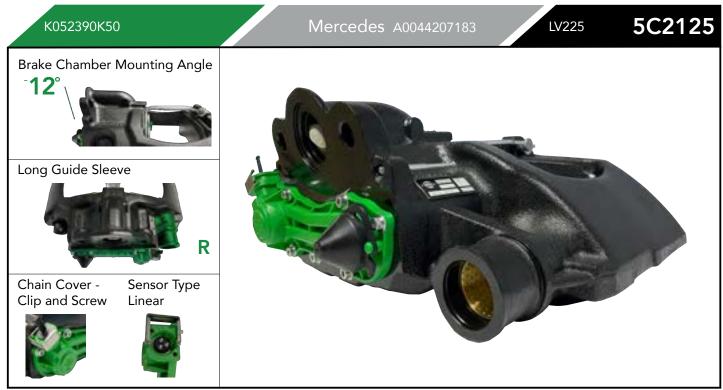




5RS200 - Single Sleeve

















Brake Chamber Mounting Angle

Long Guide Sleeve



Chain Cover -Clip and Screw



Sensor Type Linear



Guide Sleeve Kits - Fully Sealed 5C3120 / 25

5R0215 - Full Kit

5RS215 - Single Sleeve





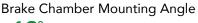


## K052380K50

Mercedes A0044207583

LA225

5C3125





Long Guide Sleeve



Chain Cover -Clip and Screw



Sensor Type

Linear

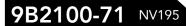












LRG740

### MXC9307023



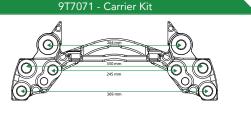


Long Guide Sleeve

Guide Sleeve Centre Distance -264 mm









# LRG741

# MXC9307024

# Renault 7420566794

# NV195 **9B21**05-71



Long Guide Sleeve



Guide Sleeve Centre Distance -264 mm

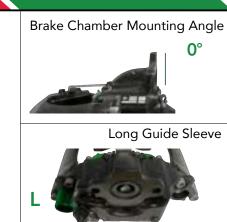






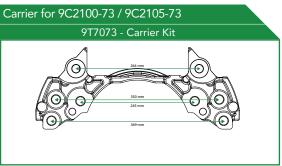


### MXC9309040

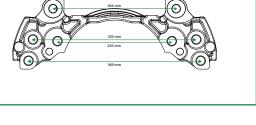


Guide Sleeve Centre Distance -264 mm









LRG739 MXC9309041 Renault 7420566589

NV225 **9C2105-73** 



Long Guide Sleeve



Guide Sleeve Centre Distance -







LRG736

MXC9309038

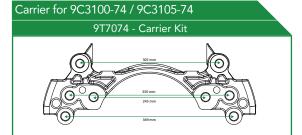




Long Guide Sleeve

Guide Sleeve Centre Distance -264 mm







# LRG737

# MXC9309039

# Renault 7420566579

# NT225 **9C3105-74**



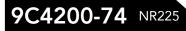
Long Guide Sleeve



Guide Sleeve Centre Distance - 264 mm







LRG734

MXC9309036

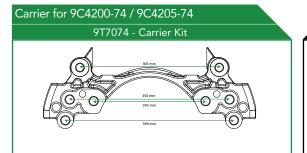




Fixed Guide Sleeve

Guide Sleeve Centre Distance - 305 mm









MXC9309037

Renault 7420566581

NR225 **9C4205-74** 





Fixed Guide Sleeve



Guide Sleeve Centre Distance - 305 mm







# ROR 68033360

LRG703

### MXC9307006

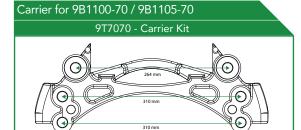




Long Guide Sleeve

Guide Sleeve Centre Distance -264 mm







# LRG702

# MXC9307005

# ROR 68033359

# NX195 **9B1105-70**



Long Guide Sleeve



Guide Sleeve Centre Distance - 264 mm





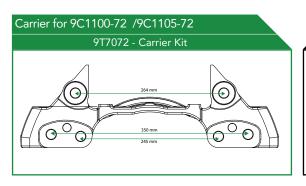




Long Guide Sleeve

Guide Sleeve Centre Distance - 264 mm









MXC9309045

ROR 68033982

NX225 **9C1105-72** 



Long Guide Sleeve



Guide Sleeve Centre Distance - 264 mm







































































K002966

Brake Chamber Mounting Angle

+86°

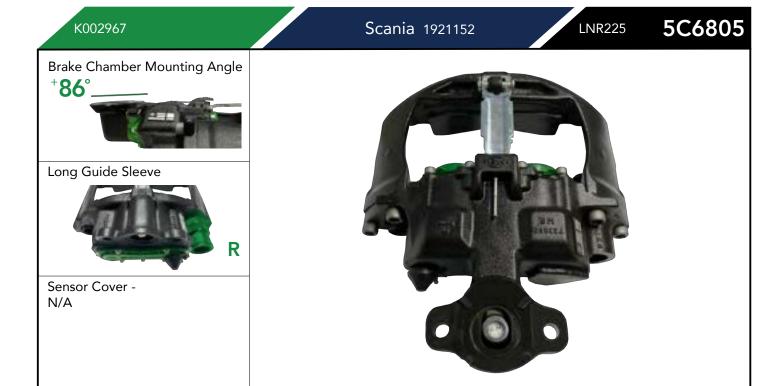
Long Guide Sleeve

Long Guide Sieeve

Sensor Cover - N/A





















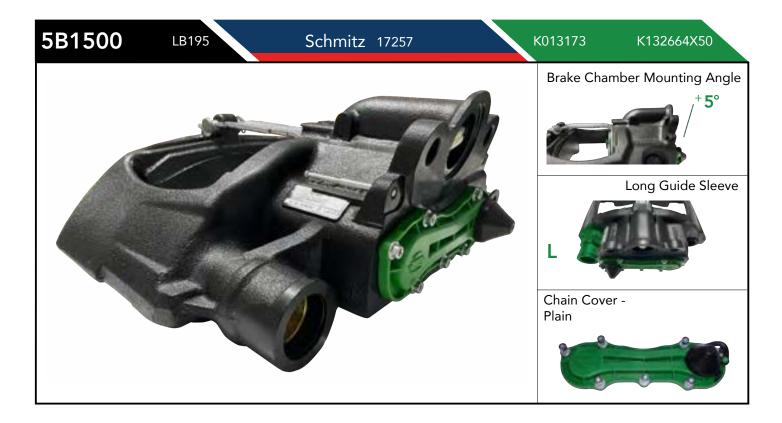












5R0400 - Tappet Kit

Guide Sleeve and Tappit Boot Kits To Fit All 5B1500 / 5B1505 Calipers

5RS200 - Single Sleeve

5R0200 - Full Kit



Guide Sleeve Kits - Fully Sealed 5B1500 / 05

5RS215 - Single Sleeve

5R0215 - Full Kit



















# VOLVO 20498846

LRG732

MXC9307023

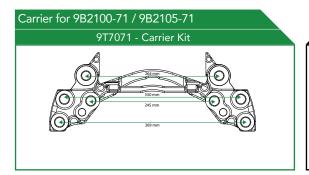




Long Guide Sleeve

Guide Sleeve Centre Distance - 264 mm









VOLVO 20498847

NV195 **9B2105-71** 



Long Guide Sleeve



Guide Sleeve Centre Distance - 264 mm







# VOLVO 20527038

LRG730

### MXC9309034



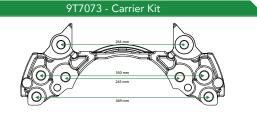


Long Guide Sleeve

Guide Sleeve Centre Distance -264 mm







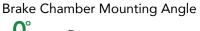


# LRG731

# MXC9309035

# VOLVO 20527039

# NV225 **9C2105-73**





Long Guide Sleeve



Guide Sleeve Centre Distance -264 mm







LRG728

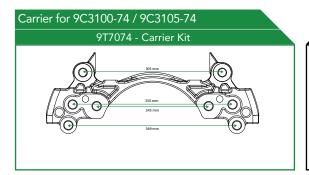
MXC9309032



Long Guide Sleeve

Guide Sleeve Centre Distance -264 mm









MXC9309033

VOLVO 20526991

NT225 **9C31**05-74



Long Guide Sleeve



Guide Sleeve Centre Distance - 264 mm





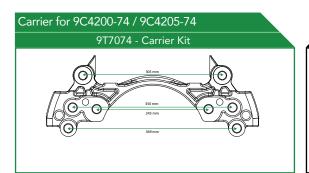




Fixed Guide Sleeve

Guide Sleeve Centre Distance - 305 mm







LRG727

MXC9309031

VOLVO 20527037

NR225 **9C4205-74** 





Fixed Guide Sleeve



Guide Sleeve Centre Distance - 305 mm



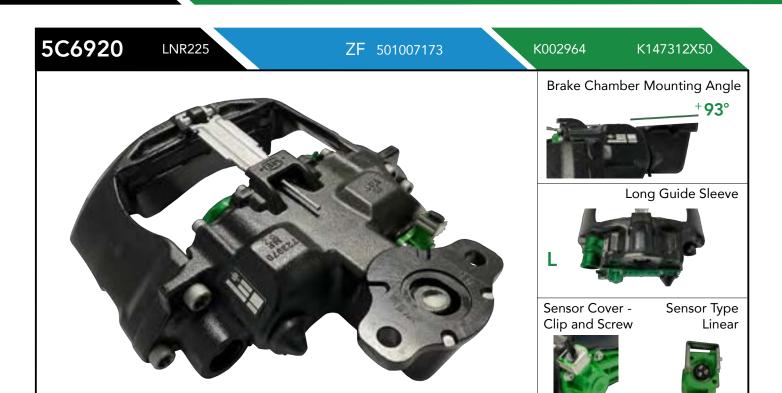


















# Guide Sleeve Kits - Fully Sealed Calipers 5R0215 - Full Kit 5RS215 - Single Sleeve











	Guide Sleeve Kits									Tappet Boot Kits			Chain Cover Kits				Sensor Kits	
	5R0200	5RS200	5RL 200	5R0205	5RS205	5R0215	5RS215	9R0250	9R0255	5R0400	5R0405	9R0450	5R0300	5R0330	5R0335	5R0340	5R0370	5R0375
5B1400	Х	Х	Х			Х	Х			Х			Х					
5B1405	Χ	Х	Х			Х	Х			Х			Х					
5B1500	Χ	Χ	Χ			Χ	Χ			Χ			Χ					
5B1505	X	X	X			X	X			X			Х					
5B1510 5B1515	X	X	X			X	X			X				X				
5B1510	X	X	X			X	X			X					Х			
5B1525	Χ	Χ	Х			Χ	Χ			Х					Χ			
5B1530	X	Х	Х			X	Х			Х						X		
5B1535 5C1100	X	X	X			X	X			X			Х			Х		
5C1105	X	X	X			X	X			X			X					
5C1110	Χ	Х	Х			Х	Х			Х				Х				
5C1115	Χ	Χ	Χ			Χ	Χ			Х				Χ				
5C1120	X	X	X			X	X			X					X			
5C1125 5C1400	X	X	X			X	X			X			Х		Х			
5C1405	X	X	X			X	X			X			X					
5C1430	Χ	Χ	Х			Х	Χ			Х						Х		
5C1435	X	X	X			X	X			X				.,		Х		
5C1440 5C1445	X	X	X			X	X			X				X				
5C1443	X	X	X			X	X			X				^	Х			
5C1455	Χ	Х	Х			Х	Х			Х					Х			
5C1600	Χ	Χ	Х			Χ	Χ			Χ			Χ					
5C1605	X	X	X			X	X			X			Х					
5C1620 5C1625	X	X	X			X	X			X					X			
5C1623	X	X	X			X	X			X						Х		
5C1635	Х	Х	Х			Х	Х			Х						Х		
5C4400			X	Х	Χ					Х			Χ					
5C4405 5C2110	X	X	X	Х	Х	Х	Х			Х	Х		Х	Х				
5C2115	X	X	X			X	X				X			X				
5C2120	X	Х	X			X	X				X				Х			
5C2125	Χ	Χ	Х			Χ	Χ				Χ				Χ			
5C3110	X	X	X			X	X				X			X				
5C3115 5C3120	X	X	X			X	X				X			Х	Х			
5C3125	X	X	X			X	X				X				X			
5C6800	Χ	Χ	Х			Χ	Χ					Х						
5C6805	X	X	X			X	X					X					.,	
5C6820 5C6825	X	X	X			X	X					X					X	
5C6900	X	X	X			X	X					X					^	
5C6905	Χ	Х	Х			Х	Х					Х						
5C6920	X	X	X			X	X					X					X	
5C6925 5C6930	X	X	X			X	X					X					Х	X
5C6935	X	X	X			X	X					X						X
9B1100-70								Х				X						
9B1105-70								Χ				Χ						
9B2100-71								X				X						
9B2105-71 9C1100-72								X				X						
9C1105-72								X				X						
9C2100-73								Х				Х						
9C2105-73								X				X						
9C3100-74 9C3105-74								X				X						
9C3105-74 9C4200-74								^	Х			X						
9C4205-74									X			X						

# LC225 Trailer Caliper

# Other Assemblies Available on Request

5C4400 LH







5C440010 LH SAF 5C440005 LH SAE-SMB

5C440510 RH SAF 5C440505 RH SAE-SMB



5T1010 Carrier SAF

5T1005 Carrier SAE-SMB





5R0205 Guide Sleeve Kit

5R0300 Chain Cover Kit

5R0400 Tappet Boot Kit

5RS205 Short Sleeve Kit

5RL200 Long Sleeve Kit











# 5T1001 Fits: LB225

Replaces: K001278

Pad Size: W 248mm H 110mm

- 1 = 286 mm
- 2 = 408mm M18 x 1.5
- 3 = 380mm M18 x 1.5
- 4 = 220mm M18 x 1.5

All dimensions are measured from hole centre to hole centre

# 5T1002 Fits: LB225

# Replaces: K001529, K001530

Pad Size: W 248mm H 110mm

- 1 = 286mm
- 2 = 408mm M16 x 1.5
- 3 = 378mm M16 x 1.5
- 4 = 290mm M16 x 1.5

All dimensions are measured from hole centre to hole centre



# Replaces: K004099

Pad Size: W 210mm H 108mm

- 1 = 266mm
- 2 = 400mm M16 x 1.5
- 3 = 378mm M16 x 1.5
- 4 = 210mm M16 x 1.5

All dimensions are measured from hole centre to hole centre



# Replaces: K000026

Pad Size: W 248mm H 110mm

- 1 = 286 mm
- 2 = 400mm M16 x 1.5
- 3 = 378mm M16 x 1.5
- 4 = 210mm M16 x 1.5

All dimensions are measured from hole centre to hole centre

# **5T1007** Fits: LB225

# Replaces: K001507, K001520



Pad Size: W 248mm H 110 mm

- 1 = 286 mm
- 2 = 400mm  $M20 \times 2.5$
- 3 = 378mm  $M20 \times 2.5$
- 4 = 290mm M20 x 2.5

All dimensions are measured from hole centre to hole centre

# **5T1008** Fits: LB225

### Replaces:

### K017864



Pad Size: W 248mm H 110 mm

- 1 = 286mm
- 2 = 400mm  $M20 \times 1.5$
- 3 = 378mm M20 x 1.5
- 4 = 290mm M20 x 1.5

All dimensions are measured from hole centre to hole centre

# **5T1010** Fits: LC225

# Replaces:

# K015308



Pad Size: W 210mm H 108mm

- 1 = 266mm
- 2 = 316mm M18 x 1.5
- 3 = 216mm M18 x 1.5

All dimensions are measured from hole centre to hole centre

# **5T1011** Fits: LB225

# Replaces:

# K011479



Pad Size: W 248mm H 110 mm

- 1 = 286 mm
- 2 = 400mm M18 x 1.5
- 3 = 378mm M18 x 1.5
- 4 = 290mm M18 x 1.5

All dimensions are measured from hole centre to hole centre