



### 405 Wheel Cylinders

Assembly No.	Cylinder Dia.	Fig.	Repair Kit	APPLICATION	Alternative Assembly
30635	1 1/8"	BS.1	KL.71490	Bristol, Jaguar	

### 405 REAR WHEEL CYLINDERS

The following combined explanation came from exploratory BODA research and from a 405 owner with extensive engineering experience.

405's with Drum brakes all-round had a 1 1/8th rear wheel cylinder Lockheed number 83604 using repair kit 71529. It is possible that this cylinder was a standard wheel cylinder used on other vehicles but with a specific handbrake lever for the 405, thus giving it a unique number, as 83604 is listed as Bristol only in the Lockheed catalogue. Its compatibility with other wheel cylinders has yet to be investigated.

On 405's originally fitted with front disc brakes, a 1" rear wheel cylinder was fitted in order to balance the rear and front wheel braking pressures. The only 1" cylinder listed between 1946 and 1962 is the BX18 shown above. By a process of elimination it seems that this was the cylinder used on the 405 front disc brake model but "modified", probably just with Bristol's own handbrake lever. 1" rear wheel cylinders were also used on the Wolseley 6/90 and the Morris Isis but no other listed vehicles.

The very bad news is that they are rarer than gold dust and simply impossible to get. Apparently, neither the 7/8" nor the 1 1/8th are suitable substitutes as they stand. BUT a 1 1/8th wheel cylinder can be used along with a proportioning valve to adjust the pressure and achieve front/rear balance so that the car brakes correctly and safely.

AT Racing proportioning valves are adjustable and come in two types 1) a 7 position valve and 2) one adjustable like a tap. With 1) it is easier to know where you are with adjusting and it not so easy with 2).

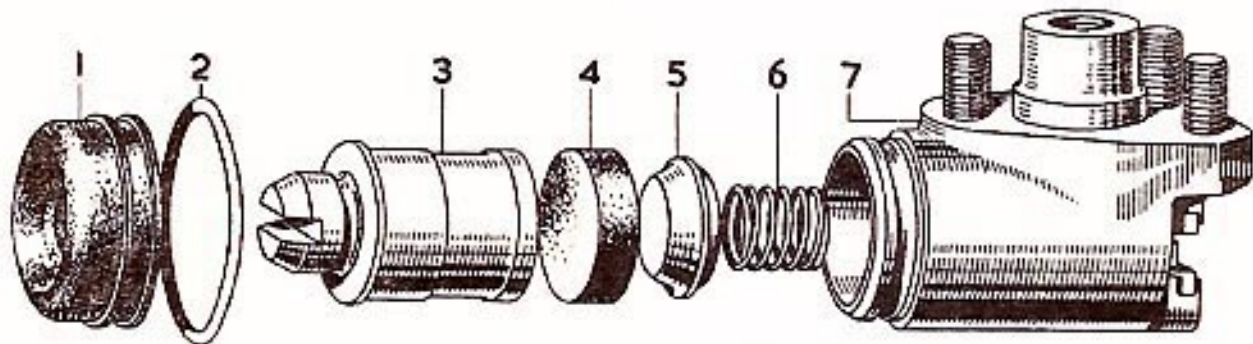
One supplier is BG Developments of Unit 9 West Court, Buntsford Park Road, Bromsgrove, Worcestershire, B60 3DX Tel: 01527 - 0 873716. At the time of writing this (Sep. 2010), the cost of type 1) is £138.73 + VAT and type 2) is £122.17 + VAT, plus any carriage as well. The valves may well be available from other suppliers and we are not specifically recommending BG, is just they have supplied one owner who is very happy with his type 1)

NOTE: The Lockheed Catalogue also lists 83604 as the rear wheel cylinder for the 406 but 406's had disc brakes all-round!

# WHEEL CYLINDER SINGLE-ENDED TYPE

## 405 Front Wheel Cylinder

Figure  
BS



Description	BSI—1 1/2"	
		Part No.
Assembly	---	30635
1. Boot	---	★ 30632
2. Boot Clip	---	30795
3. Piston	---	30631
4. Cup	---	★ 2762
5. Cup Filler	---	29660
6. Spring	---	30977
7. Cylinder Body	---	30629
Repair Kit	---	★ KL.71490

SUITABLE PIPE  
CONNECTIONS

Inlet Banjo Bolt, No. 10543