



**TWINGO
EXTRA
KANGOO
CLIO 2
LAGUNA
SAFRANE
TRAFIC
MASTER**

See list on next page

37

Cancels and replaces Technical Note n° 3367D
Modifications: Modifications to vehicle fabrication cut-offs

37 BRAKE SERVO NON-RETURN VALVE

O.T.S.: 0561 MARK: C2

Other sub-sections concerned:

33

999

- Engine: **xxx**
- Gearbox: **xxx**

Basic manuals:

- Workshop Repair Manual according to vehicle
- D.I.T.G. 7/0

SUBJECT

Preventive operation:

- Check and replace, if necessary, the brake servo non-return valve.

"The repair methods given by the manufacturer in this document are based on the technical specifications current when it was prepared.

The methods may be modified as a result of changes introduced by the manufacturer in the production of the various component units and accessories from which his vehicles are constructed."

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VEHICLE	TYPE	From	To	VEHICLE	TYPE	From	To
RIGHT AND LEFT HAND DRIVE							
TWINGO	C06	6	F 502130	F 535364	SAFRANE	B54	F S 035227 S 035898
	C06	8	F 057003	F 066861		B54	G S 060732 S 064236
	S06	6	F 142533	F 143304		B54	L S 038599 S 039569
EXTRA	F40	R	U 172882	U 172926		B54	N S 000656 S 001201
	G40	B	U 082785	U 086654	TRAFIC	TCJ	M B 001350 B 001350
KANGOO	FC0	A	U 021162	U 023114		TF1	L B 019857 B 021909
	FC0	D	U 050689	U 057996		TF1	M B 019867 B 021886
	FC0	E	U 079859	U 093873		TF2	L B 019866 B 021905
	FC0	H	U 002988	U 005078		TF2	M B 020436 B 020436
	FC0	J	U 000008	U 000095		TF3	L B 019862 B 021907
	FC0	U	U 000004	U 000008		THB	L B 003714 B 004021
	KC0	A	U 044180	U 047539		TC9	M B 001318 B 001349
	KC0	D	U 012245	U 013265		T55	L B 407658 B 407731
	KC0	E	U 079123	U 090002		T55	M B 407683 B 407683
	KC0	H	U 026004	U 034972		V31	M B 000554 B 000599
	KC0	U	U 000015	U 000048		V49	M B 000686 B 000689
CLIO 2	BB0	A	F 071506	F 078256		V5B	M B 000621 B 000650
			W 107897	W 125581	MASTER	ED0	C B 001723 B 001967
	BB0	D	F 023591	F 028747		ED0	E B 000925 B 001063
			W 022987	W 029049		ED0	F B 000001 B 000004
	BB0	L	F 000023	F 000618		FD0	C B 033158 B 038331
			W 000012	W 001015		FD0	E B 027646 B 034256
	BB0	S	F 009341	F 014287		FD0	G B 000001 B 000007
			W 013478	W 021804		FD0	J B 000007 B 000008
	CB0	A	F 063089	F 071136		FD0	L B 000003 B 000009
			W 049167	W 056206		FD2	E B 000209 B 000290
	CB0	D	F 016039	F 018353		FD2	F B 000325 B 000407
			W 007000	W 007876		FD3	C B 000550 B 000687
	CB0	L	F 000013	F 000180		FD3	E B 000128 B 000172
			W 000008	W 001368		HD0	C B 000393 B 000519
	CB0	S	F 004194	F 006554		HD0	E B 000334 B 000470
			W 005116	W 007618		HD0	G B 000001 B 000001
LAGUNA	CB0	T	F 009782	F 013085		HD1	C B 000017 B 000055
	SB0	A	W 001793	W 002234		HD1	E B 000038 B 000101
	A56	A	S 000070	S 001420		JD0	E B 000887 B 001026
	B56	J	S 106145	S 127217		JD0	F B 000423 B 000529
	B56	L	S 112717	S 113575		JD1	E B 002546 B 002958
	B56	U	S 021356	S 021775		JD1	F B 001708 B 002006
	B56	V	S 045414	S 045855		JD1	G B 000001 B 000001
	B56	W	S 021041	S 022055		JD1	L B 000001 B 000002
	B56	0	S 126057	S 126135		UD0	C B 003714 B 004329
	B56	3	S 025245	S 026970		UD0	E B 001779 B 002265
	B56	4	S 039519	S 044334		UD0	G B 000001 B 000002
	B56	8	S 089507	S 098208		UD1	C B 000104 B 000116
	B56	9	S 103350	S 107437		UD1	E B 000274 B 000345
	K56	J	S 059089	S 063293		UD4	C B 000325 B 000367
	K56	L	S 072210	S 072424	RIGHT HAND DRIVE ONLY		
	K56	V	S 042051	S 042152	CLIO 2	BB0	E F 038003 F 038587
	K56	W	S 021004	S 021511		BB0	J F 000014 F 006638
	K56	0	S 070012	S 070026		CB0	E F 009588 F 009591
	K56	3	S 021055	S 021119		CB0	J F 000003 F 000382
	K56	4	S 029400	S 031477			
	K56	8	S 041069	S 043600			
	K56	9	S 054365	S 054912			
	556	A	S 000132	S 003318			

CLAIM COMPLETION AND CODING**Destination of removed parts:**

- For UK, return to COMEX, Swindon.

Accounts procedure:

- Request for reimbursement or individual claim, depending on the country.
- Expense code : **91**
- Parts at cost price.
- Labour at contractual warranty rate.
- Closure date: **unlimited.**

O.T.S. Code: 0561

Operation Code	Title	Time allowed
3999	Check(s) without replacement	0.2 hours
3999	Replacing the valve	0.4 hours

AFTER-SALES SOLUTION**Operation to be carried out:**

- Check and replace, if necessary, the brake servo non-return valve.

Vehicles concerned:

- See vehicle types and fabrication cut-offs on page 37-2.

When to take action:

- Upon receipt of a customer complaint and/or when the vehicle is first brought to the workshop.

Part required:

- 1 brake servo non-return valve
Part No.: 77 01 036 904

Tooling required:

- Conventional.

Description of the operation:**1) Check for the presence and marking of a label on the shock absorber turret on the driver's side**

- *Label with square **C2** crossed,*
⇒ **NO OPERATION.**

Create a request for reimbursement under warranty or an individual claim, depending on country (see "Accounts procedure").

- *No label or a label with square **C2** not crossed,*
⇒ **CHECK THE BRAKE SERVO SUPPLIER MARKING** (see below)

2) Check the brake servo supplier marking (Fig. 1)

- *The supplier marking in the diamond on the brake servo label is **368**,*
⇒ **NO OPERATION.**

Create a request for reimbursement under warranty or an individual claim, depending on country (see "Accounts procedure").

- *The supplier marking in the diamond on the brake servo label is **other than 368**,*
⇒ **CHECK THE BRAKE SERVO NON-RETURN VALVE** (see following page)



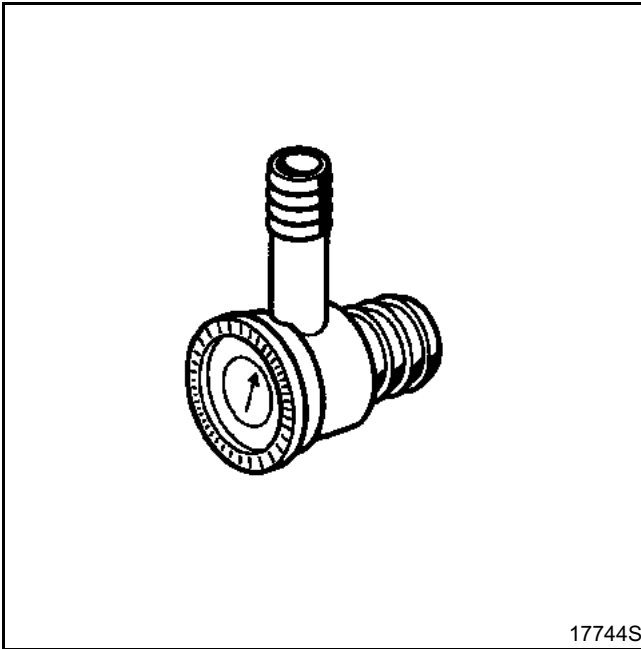
17743S

Fig. 1

3) Check the brake servo non-return valve (Fig. 2 and 3)

- The upper surface of the brake servo non-return valve is concave and its contour is ridged (**Fig. 2**),
⇒ **NO OPERATION**.

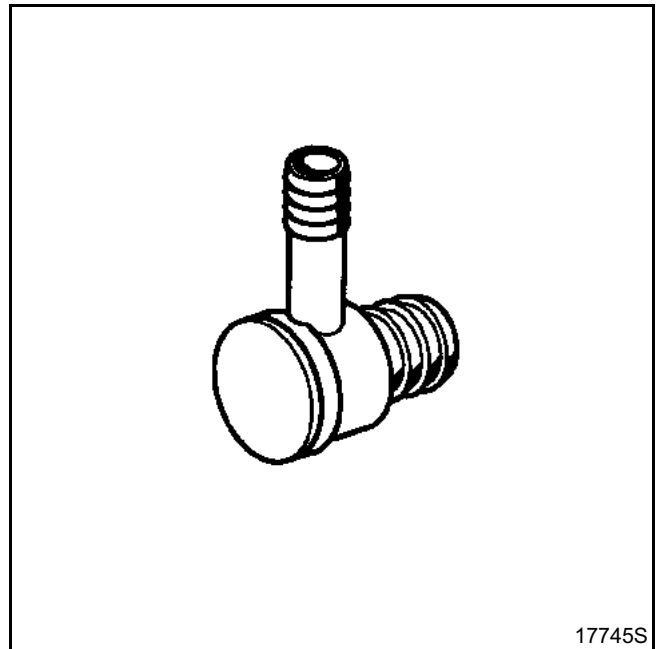
Create a request for reimbursement under warranty or an individual claim, depending on country (see "Accounts procedure").

**Fig. 2**

- The upper surface of the brake servo non-return valve is flat, smooth and is marked with a coloured spot other than blue,
⇒ **NO OPERATION**.

Create a request for reimbursement under warranty or an individual claim, depending on country (see "Accounts procedure").

- The upper surface of the brake servo non-return valve is flat, smooth and marked only with a blue coloured spot, or flat and smooth with no coloured spot markings (**Fig. 3**),
⇒ **REPLACE THE BRAKE SERVO NON-RETURN VALVE** (see following page).

**Fig. 3**

Brake servo non-return valve

4) Replacing the brake servo non-return valve (Fig. 4)

REMOVAL:

- Press three or four times on the brake pedal to dump the vacuum in the brake servo.
- Remove:
 - the non-return valve (A) (Fig. 4) for the brake servo, being careful not to damage the sealing ring (B) (Fig. 4),
 - the clamp.
- Separate the valve from the pipe.

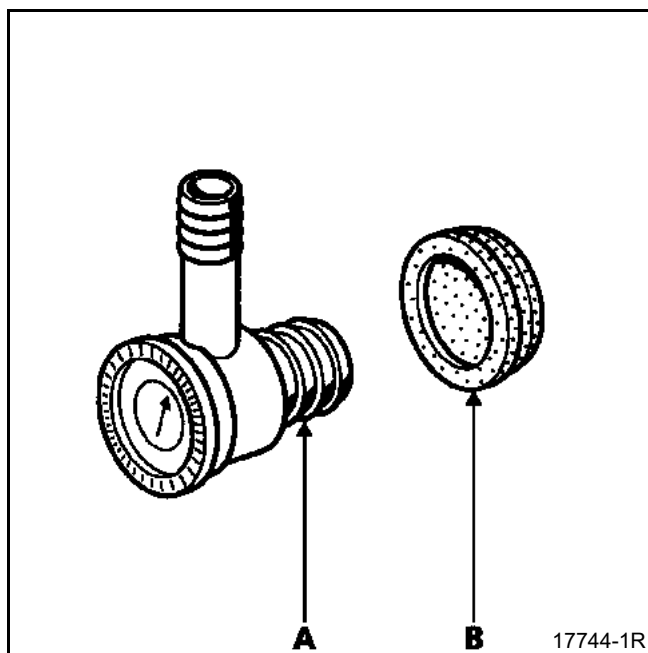


Fig. 4

- A Brake servo non-return valve
B Sealing ring

REFITTING:

- Check the condition of the sealing ring (replace it if necessary).
- Fit the new brake servo non-return valve on the pipe.
- Refit:
 - the clamp,
 - the valve on the brake servo, being careful not to pierce the pipe and ensuring that it does not come into contact with the brake pipes.

Checking the seal:

- Start the engine and run at **2500 rpm** for **10 seconds** without braking.
- Let the engine run at idle speed and depress the brake pedal.
- Stop the engine while keeping the brake pedal depressed:

- *In the next 10 seconds, the brake pedal does not rise again, there is no hardening of the pedal,*
⇒ **THE OPERATION IS COMPLETE.**

Create a request for reimbursement under warranty or an individual claim, depending on country (see "Accounts procedure").

- *Within 10 seconds, the brake pedal rises again and hardens,*
⇒ **THERE IS A VACUUM LOSS**

Check:

- the position of the valve on the brake servo,
 - the position of the valve on the pipe,
 - the position of the clamp and make sure it is tight (replace if necessary),
- Repeat the check to ensure that there are no leaks.

- Marking the vehicle after the work has been carried out:
- Affix a blue label, **Part No.: 49 39 031 070**, to the driver's side front shock absorber turret.
 - Mark a cross in square **C2** using a marker pen.

	1	2	3	4	5	6
A						
B						
C		X				
D						
E						

NOTE: The label, **Part No.: 49 39 031 070**, is available in sheets of 10 labels (delivered in packs of 10 sheets).

For UK Market:
Mark a cross in square **C2** using a marker pen.

NOTE: On current vehicles the matrix box is printed at the rear of the Warranty and Servicing booklet.

For vehicles manufactured prior to this arrangement, attach a blue label, **Part No.: 49 39 031 070**, to the rear inside cover of the Warranty and Servicing booklet. Transfer previously marked squares to the new label and remove and destroy the old label.