



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

See list on next page

37

*Cancel 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.

MECHANICAL ELEMENT CONTROLS

Brake servo non-return valve

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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
				B54		N S 000656	S 001201	
EXTRA	F40	R	U 172882	U 172926	TRAFIC	TCJ	M B 001350	B 001350
	G40	B	U 082785	U 086654		TF1	L B 019857	B 021909
KANGOO	FC0	A	U 021162	U 023114		TF1	M B 019867	B 021886
	FC0	D	U 050689	U 057996		TF2	L B 019866	B 021905
	FC0	E	U 079859	U 093873		TF2	M B 020436	B 020436
	FC0	H	U 002988	U 005078		TF3	L B 019862	B 021907
	FC0	J	U 000008	U 000095		THB	L B 003714	B 004021
	FC0	U	U 000004	U 000008		TC9	M B 001318	B 001349
	KC0	A	U 044180	U 047539		T55	L B 407658	B 407731
	KC0	D	U 012245	U 013265		T55	M B 407683	B 407683
	KC0	E	U 079123	U 090002	V31	M B 000554	B 000599	
	KC0	H	U 026004	U 034972	V49	M B 000686	B 000689	
CLIO 2	KC0	U	U 000015	U 000048	V5B	M B 000621	B 000650	
	BB0	A	F 071506	F 078256	MASTER	ED0	C B 001723	B 001967
			W 107897	W 125581		ED0	E B 000925	B 001063
	BB0	D	F 023591	F 028747		ED0	F B 000001	B 000004
			W 022987	W 029049		FD0	C B 033158	B 038331
	BB0	L	F 000023	F 000618		FD0	E B 027646	B 034256
			W 000012	W 001015		FD0	G B 000001	B 000007
	BB0	S	F 009341	F 014287		FD0	J B 000007	B 000008
			W 013478	W 021804		FD0	L B 000003	B 000009
	CB0	A	F 063089	F 071136		FD2	E B 000209	B 000290
		W 049167	W 056206	FD2		F B 000325	B 000407	
LAGUNA	CB0	D	F 016039	F 018353	FD3	C B 000550	B 000687	
			W 007000	W 007876	FD3	E B 000128	B 000172	
	CB0	L	F 000013	F 000180	HD0	C B 000393	B 000519	
			W 000008	W 001368	HD0	E B 000334	B 000470	
	CB0	S	F 004194	F 006554	HD0	G B 000001	B 000001	
			W 005116	W 007618	HD1	C B 000017	B 000055	
	CB0	T	F 009782	F 013085	HD1	E B 000038	B 000101	
	SB0	A	W 001793	W 002234	JD0	E B 000887	B 001026	
					JD0	F B 000423	B 000529	
					JD1	E B 002546	B 002958	
				JD1	F B 001708	B 002006		
				JD1	G B 000001	B 000001		
				JD1	L B 000001	B 000002		
				UD0	C B 003714	B 004329		
				UD0	E B 001779	B 002265		
				UD0	G B 000001	B 000002		
				UD1	C B 000104	B 000116		
				UD1	E B 000274	B 000345		
				UD4	C B 000325	B 000367		
RIGHT HAND DRIVE ONLY								
				CLIO 2	BB0	E F 038003	F 038587	
					BB0	J F 000014	F 006638	
					CB0	E F 009588	F 009591	
					CB0	J F 000003	F 000382	

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)**



Fig. 1

Brake servo non-return valve

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").

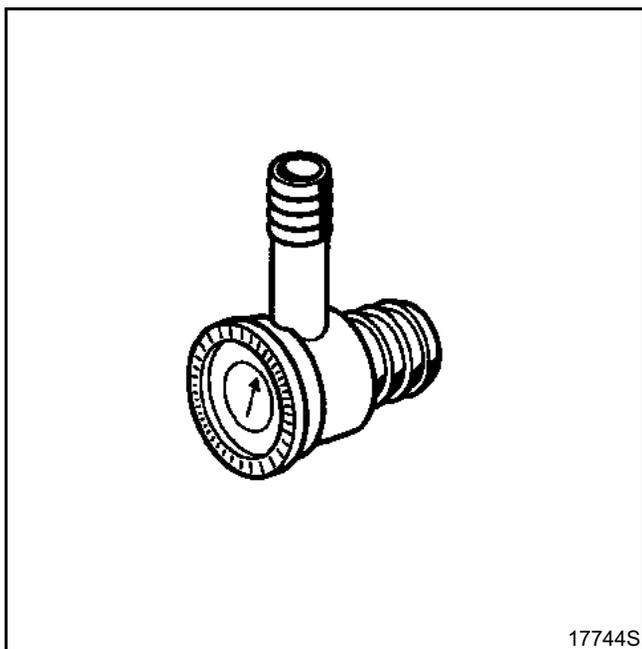


Fig. 2

- 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).

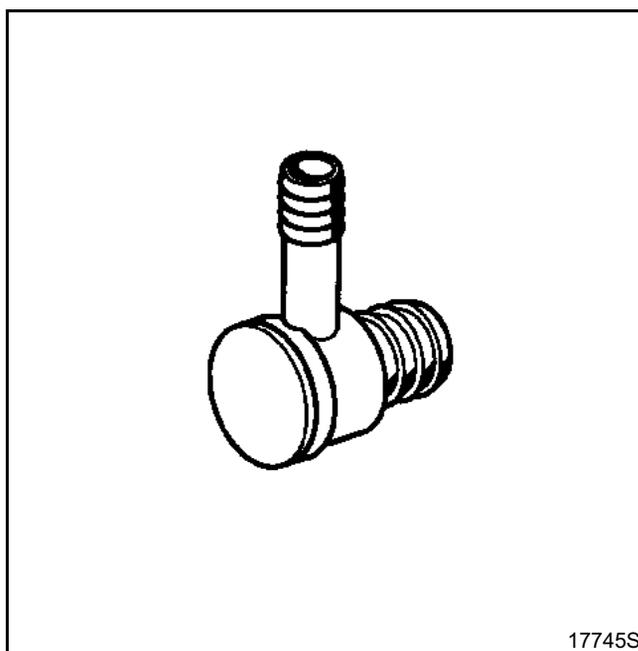


Fig. 3

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.

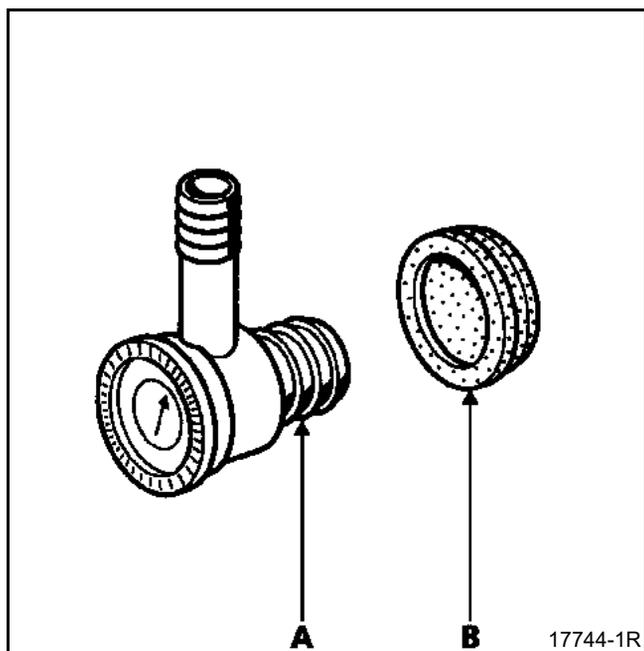


Fig. 4

- 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.

Brake servo non-return valve

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.