FT4929 Curb side front wheel air brake hose rubbing

Technical writer name Devanand

First Level Parts

Material
Part Number
QTY
-

Second Level Parts (33% of	38 vehicles)	
Material	Part Number	QTY
HOSE AIR BRAKE FRONT AXLE	N45827	1

Shop Supply (33% of 38 vehicles)							
Material	Part Number	QTY					
TIE TEFZEL CABLE TIES	N56339	3					
CABLE TIE	504637	6					

section	08
	section

 Nb hours Level 1
 0.5 hr
 MQR
 7621-2141

 Nb hours Level 2
 1.5 hr

Disposal of	parts	
Removed pa	rts are:	When the retained check box is check, the parts must be retained
		and returned in accordance with the usual warranty procedure to
	1	be reimbursed.

Client	Order	Road nu	mbers	V	N	QTY	Lang.	Customer	Target market	Plant	Config moteur	Model	NR	R1
New York City Transit New York - NYCT	LA76	8623	8633	L82J5K9777134	L82J8K9777144	11	Е	NYCT	US	PLB	TD	40	Х	
New York City Transit New York - NYCT	LC32	8634	8641	L82JXK9777145	L82J7K9777152	8	Е	NYCT	US	PLB	TD	40	Х	
New York City Transit New York - NYCT	LC32	8643	8643	L82J0K9777154	L82J0K9777154	1	Е	NYCT	US	PLB	TD	40	Х	
New York City Transit New York - NYCT	LC32	8645	8645	L82J4K9777156	L82J4K9777156	1	Е	NYCT	US	PLB	TD	40	Х	
New York City Transit New York - NYCT	LC32	8647	8654	L82J8K9777158	L82J5K9777165	8	Е	NYCT	US	PLB	TD	40	Х	
New York City Transit New York - NYCT	LC32	8658	8658	L82J2K9777169	L82J2K9777169	1	Е	NYCT	US	PLB	TD	40	Х	
New York City Transit New York - NYCT	LC32	8661	8664	L82J2K9777172	L82J8K9777175	4	Е	NYCT	US	PLB	TD	40	Х	
New York City Transit New York - NYCT	LC32	8666	8666	L82J1K9777177	L82J1K9777177	1	Е	NYCT	US	PLB	TD	40	Х	
New York City Transit New York - NYCT	LC32	8669	8669	L82J1K9777180	L82J1K9777180	1	E	NYCT	US	PLB	TD	40	Х	
New York City Transit New York - NYCT	LC32	8671	8672	L82J5K9777182	L82J7K9777183	2	E	NYCT	US	PLB	TD	40	Х	

Jean-Nicolas Fournier
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Brake hose internal campaign C/S and S/S front brake hoses

NYCT LC32

Tools/parts required if replacement of hose is necessary

- Wheel chocks/jack stands
- Lock-out/Tag-out
- Torque wrench
- 7/8" crows foot
- Ratchet with 10mm socket
- 10mm wrench
- Brake hose N45827
- Blue zip ties N56339, X3
- Black zip tie G5007995, X6

Brake hose rubbing tire



Root Cause

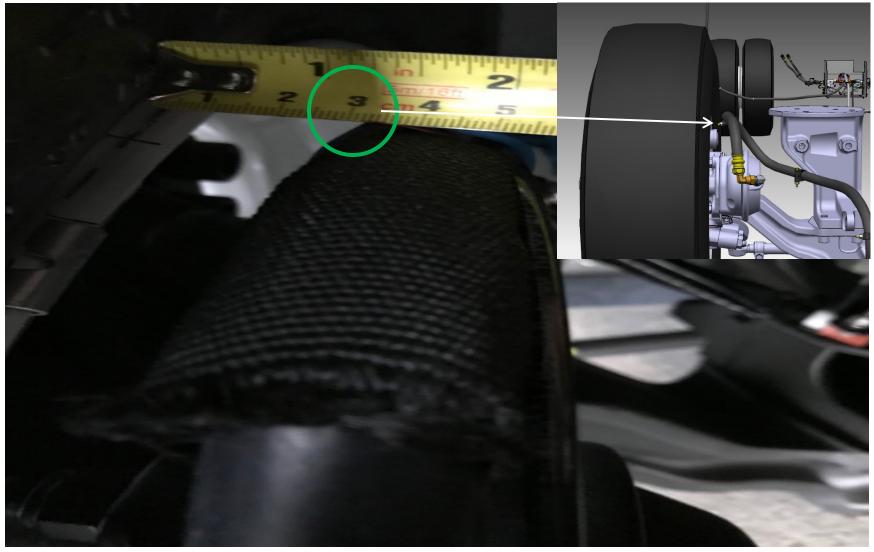
While tightening the brake hose at the C/S
front brake chamber some buses have had the
brake line twist toward the front tire during
the torqueing process, this is not present on
the street side, this hose when torqued moves
away from the tire due to it being the
opposite direction as the curb side.

A 30mm minimum of clearance is required between brake hose and tire

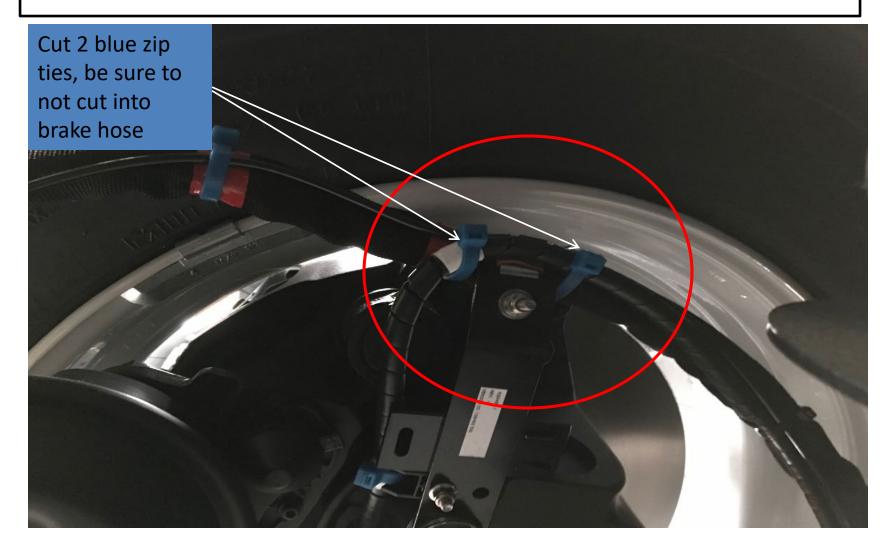
Lock bus out

- Place jack stands at yellow jacking points at the front of the bus, once complete, it is safe to measure inside the C/S and S/S wheel well.
- Measure distance between brake hose and tire, turning the wheel to the right will make it easier if the bus is on the ground or it can be done with the wheels straight if the bus is in the air or over a pit.

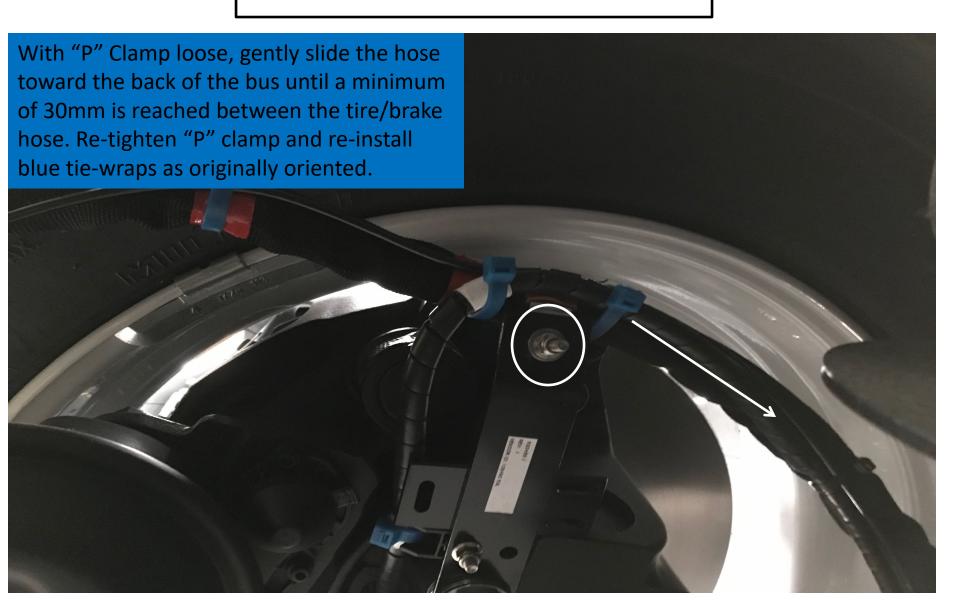
Measure distance between brake hose and tire at its closest point



If there is less than 30MM and no contact between the brake hose and tire has been made, conduct the following procedure, keep bus locked out/chocked/stands in place



Loosen "P" Clamp



Check connection at brake chamber

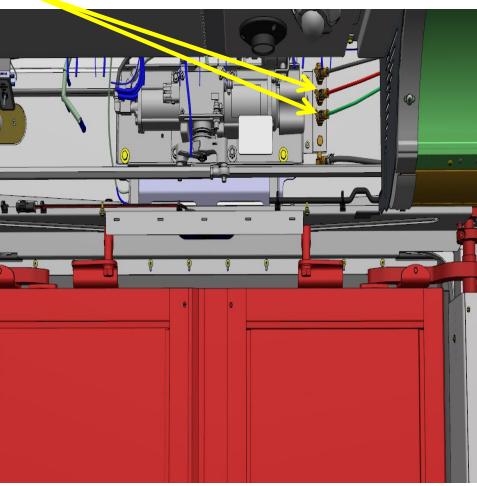
 Verify the hose is not kinked/stressed where the fitting is crimped onto the hose at the brake chamber.

If contact has been made:

- The brake hose must be replaced.
- The repair can be done with the bus on the ground with the wheel turned all the way to the right, over a pit, or on a lift. Follow all local safety procedures.

Empty primary and secondary air tanks, red and green shown below

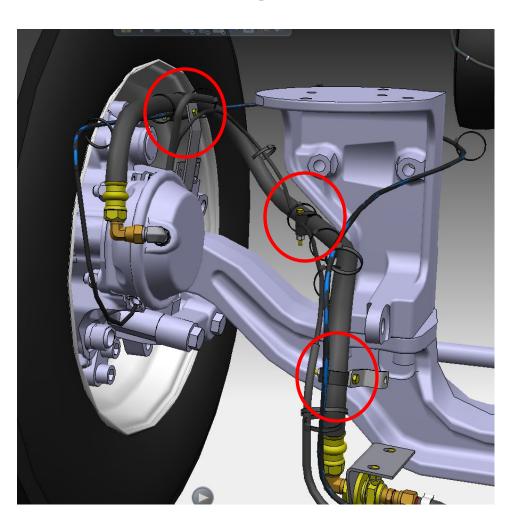




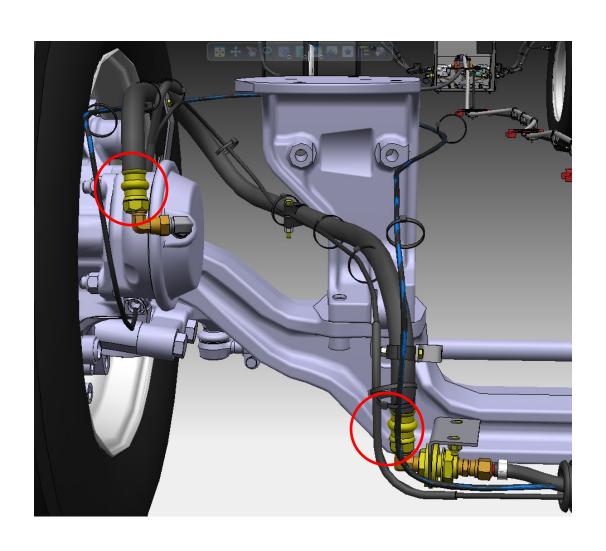
Remove zip ties from brake hose for ABS and brake wear sensor

Be cautious when cutting, do not cut into cables

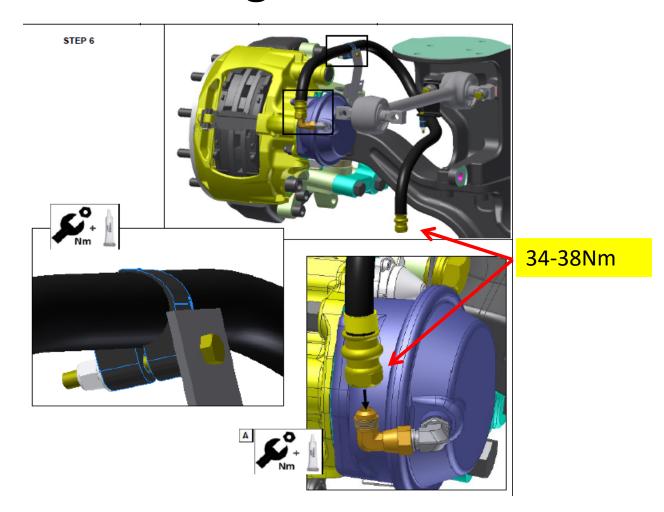
Remove "P" clamps from brake hose X3



Disconnect air hose and discard



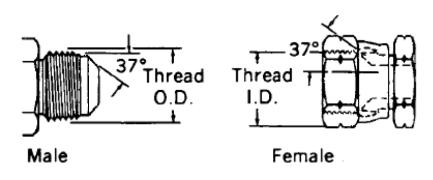
Install new air hose into "P" clamps, follow routing shown below



Air hose installation continued

6.0 SAE 37° JIC TYPE FITTINGS AND adapter

The 37° JIC fitting seal is achieved through metal-to-metal contact between the flared nose of the fitting and the flared tube face in the female port.





Air hose installation continued

SAE 37° JIC flare fitting assembly instructions

- 6.1.1 Inspect the contact surface and threads for any damage or material flaw.
- (Do not apply sealer on threads.)

Air hose installation continued

- Use thread size to determine torque to be applied (see Table 5).
- 6.1.4 Screw in the adapter or fitting by hand to ensure threads are correctly engaged
- and finger tighten as much as possible.
- 6.1.5 Using a wrench, complete tightening to the recommended torque (see **Table 5**).
- 6.1.6 Apply anti-tamper seal ("Torque Seal") to indicate torque has been applied (AVT-0203).

Re-secure cables

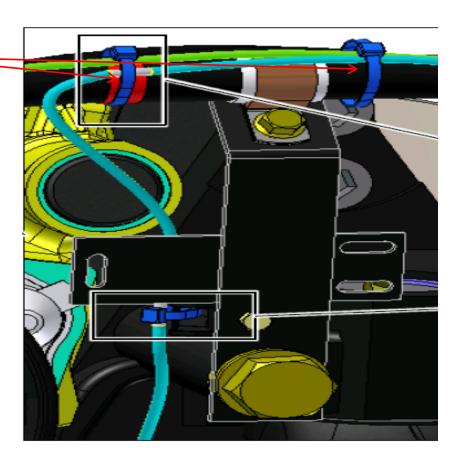
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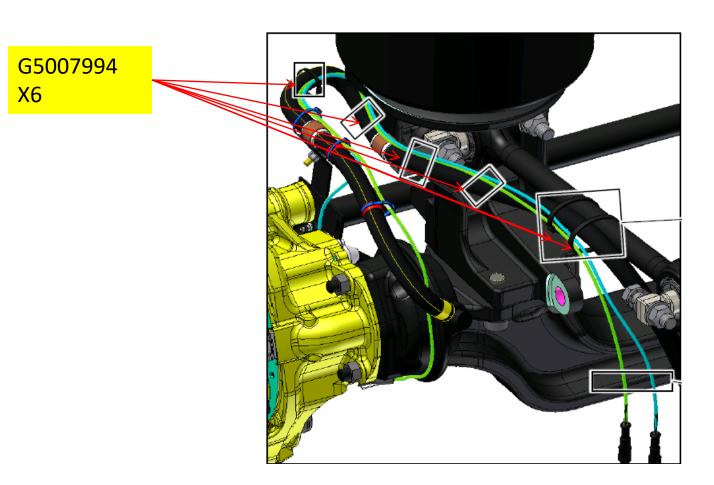
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				WEIGHT	TITLE	CHECK	SCALE	SHEET
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PARTS MUST BE FREE FROM LISTED PROHBITED CHEMICAL, SUBSTANCES STD 100-0002 AND STD 100-0000	D4K	No.	NOTICE THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION AND SHALL NOT BE USED OR REPRODUCED OR ITS CONTRICTS DISCLOSED, IN WHOLE VEHICLE OR IN PART, WITHOUT THE PRIOR WRITTEN COMMENT OF NOWARDS	ORIGINALEN	essieux avant	C045S	В	F

Re-secure cables on brake hose

N56339



Continued from previous slide



Measure brake hose to tire

- Be sure the 30MM requirement is met.
- If not, adjust hose as shown on previous slides

Remove jack stands and unlock bus

- Run bus until governor cut-out (approx 135PSI)
- Turn steering wheel lock to lock several times.
- Kneel bus and bring back to ride height.
- With bus running and qualified personnel in the driver seat, release parking brake and depress brake pedal to the floor, have a helper check for leaks at the brake hose connections with snoop or soapy water, watch for bubbles.

Leak check

- If no leaks are present, the bus can be released
- If leaks are detected, the connections must be disassembled, checked for damage and retorqued to 34-38NM, do not over-torque.