

**FT5198R1 Water Inside Roof Fuse Box (MQR 7621-2374)**

Technical writer name / nom rédacteur technique: André Pelletier

Manual/manuel, section: 9

Level 1 Parts, description	Part # / # de pièce	QTY / Qté
n/a	n/a	n/a

Labour level 1 / main d'oeuvre niveau 1	0.5h
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Special Tooling	Part # / # de pièce	QTY / Qté
30 cc Taper Tip Dispensing Syringe	N8950810	10 (approx 3 per depot)

Labour level 2 / main d'oeuvre niveau 2	1h
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Disposal of parts / disposition des pièces

Shop Supplies	Part # / # de pièce	QTY / Qté
GREASE DIELECTRIC	N77489	20 gr / bus

Removed parts are / les pièces retirées sont:		When the retained check box is checked, the parts must be retained and returned in accordance with the usual warranty procedure to be reimbursed / Pour être remboursées, les pièces doivent être conservées et retournées selon le processus de garantie habituel.
Discarded / jetées	Retained/conservées	
x		

Client	Order	Road numbers	VIN	QTY (total 146)	NR	R1
New York City Transit New York - NYCT	LC79	9623	4RKYL82L1M9777782	1		x
New York City Transit New York - NYCT	LC79	9624	4RKYL82L3M9777783	1	x	x
New York City Transit New York - NYCT	LC79	9625	4RKYL82L5M9777784	1	x	x
New York City Transit New York - NYCT	LC79	9626	4RKYL82L7M9777785	1	x	x
New York City Transit New York - NYCT	LC79	9627	4RKYL82L9M9777786	1	x	x
New York City Transit New York - NYCT	LC79	9628	4RKYL82L0M9777787	1	x	x
New York City Transit New York - NYCT	LC79	9636	4RKYL82LXM9777795	1	x	x
New York City Transit New York - NYCT	LC79	9637	4RKYL82L1M9777796	1	x	x
New York City Transit New York - NYCT	LC79	9639	4RKYL82L5M9777798	1	x	x
New York City Transit New York - NYCT	LC79	9644	4RKYL82L5M9777803	1	x	x
New York City Transit New York - NYCT	LC79	9648	4RKYL82L2M9777807	1	x	x
New York City Transit New York - NYCT	LC79	9650	4RKYL82L6M9777809	1	x	x
New York City Transit New York - NYCT	LC79	9652	4RKYL82L4M9777811	1	x	x
New York City Transit New York - NYCT	LC79	9653	4RKYL82L6M9777812	1	x	x
New York City Transit New York - NYCT	LC79	9654	4RKYL82L8M9777813	1	x	x
New York City Transit New York - NYCT	LC79	9656	4RKYL82L1M9777815	1	x	x
New York City Transit New York - NYCT	LC79	9657	4RKYL82L3M9777816	1	x	x
New York City Transit New York - NYCT	LC79	9658	4RKYL82L5M9777817	1	x	x
New York City Transit New York - NYCT	LC79	9659	4RKYL82L7M9777818	1	x	x
New York City Transit New York - NYCT	LC79	9660	4RKYL82L9M9777819	1	x	x
New York City Transit New York - NYCT	LC79	9661	4RKYL82L5M9777820	1	x	x
New York City Transit New York - NYCT	LC79	9662	4RKYL82L7M9777821	1	x	x
New York City Transit New York - NYCT	LC79	9663	4RKYL82L9M9777822	1	x	x
New York City Transit New York - NYCT	LC79	9664	4RKYL82L0M9777823	1	x	x
New York City Transit New York - NYCT	LC79	9665	4RKYL82L2M9777824	1	x	x
New York City Transit New York - NYCT	LC79	9666	4RKYL82L4M9777825	1	x	x
New York City Transit New York - NYCT	LC79	9667	4RKYL82L6M9777826	1	x	x
New York City Transit New York - NYCT	LC79	9668	4RKYL82L8M9777827	1	x	x
New York City Transit New York - NYCT	LC79	9669	4RKYL82LXM9777828	1	x	x
New York City Transit New York - NYCT	LC79	9670	4RKYL82L1M9777829	1	x	x
New York City Transit New York - NYCT	LC79	9671	4RKYL82L8M9777830	1	x	x
New York City Transit New York - NYCT	LC79	9672	4RKYL82LXM9777831	1	x	x
New York City Transit New York - NYCT	LC79	9673	4RKYL82L1M9777832	1	x	x
New York City Transit New York - NYCT	LC79	9674	4RKYL82L3M9777833	1	x	x
New York City Transit New York - NYCT	LC79	9675	4RKYL82L5M9777834	1		x
New York City Transit New York - NYCT	LC79	9676	4RKYL82L7M9777835	1	x	x
New York City Transit New York - NYCT	LC79	9678	4RKYL82L0M9777837	1	x	x
New York City Transit New York - NYCT	LC79	9679	4RKYL82L2M9777838	1		x

Jean-Nicolas  
Fournier

Digitally signed by Jean-Nicolas Fournier  
DN: cn=Jean-Nicolas Fournier, o=Nova Bus, email=jean-nicolas.fournier@volvo.com, c=CA  
Date: 2022.02.02 13:07:36 -05'00'



New York City Transit New York - NYCT	LC79	9767	4RKYL82L4M9777937	1	x	x
New York City Transit New York - NYCT	LC79	9768	4RKYL82L6M9777938	1	x	x
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New York City Transit New York - NYCT	LC79	9775	4RKYL82L3M9777945	1	x	x
New York City Transit New York - NYCT	LC79	9776	4RKYL82L5M9777946	1	x	x
New York City Transit New York - NYCT	LC79	9777	4RKYL82L7M9777947	1	x	x
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New York City Transit New York - NYCT	LC79	9779	4RKYL82L0M9777949	1	x	x
New York City Transit New York - NYCT	LC79	9780	4RKYL82L7M9777950	1	x	x
New York City Transit New York - NYCT	LC79	9782	4RKYL82L0M9777952	1	x	x
New York City Transit New York - NYCT	LC79	9783	4RKYL82L2M9777953	1	x	x
New York City Transit New York - NYCT	LC79	9784	4RKYL82L4M9777954	1	x	x
New York City Transit New York - NYCT	LD64	9786	4RKYL82L6M9777955	1		x
New York City Transit New York - NYCT	LD64	9787	4RKYL82L8M9777956	1		x
New York City Transit New York - NYCT	LD64	9789	4RKYL82L1M9777958	1		x
New York City Transit New York - NYCT	LD64	9790	4RKYL82L3M9777959	1		x
New York City Transit New York - NYCT	LD64	9791	4RKYL82L0M9777966	1		x
New York City Transit New York - NYCT	LD64	9792	4RKYL82L2M9777967	1		x
New York City Transit New York - NYCT	LD64	9793	4RKYL82L4M9777968	1		x
New York City Transit New York - NYCT	LD64	9794	4RKYL82L6M9777969	1		x
New York City Transit New York - NYCT	LD64	9795	4RKYL82L2M9777970	1		x
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New York City Transit New York - NYCT	LD64	9799	4RKYL82LXM9777974	1		x
New York City Transit New York - NYCT	LD64	9800	4RKYL82L1M9777975	1		x
New York City Transit New York - NYCT	LD64	9802	4RKYL82L5M9777977	1		x
New York City Transit New York - NYCT	LD64	9803	4RKYL82L7M9777978	1		x
New York City Transit New York - NYCT	LD64	9805	4RKYL82L5M9777980	1		x
New York City Transit New York - NYCT	LD64	9806	4RKYL82L7M9777981	1	x	x
New York City Transit New York - NYCT	LD64	9807	4RKYL82LXM9777988	1		x
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New York City Transit New York - NYCT	LD64	9828	4RKYL82L7M9778015	1		x
New York City Transit New York - NYCT	LD64	9829	4RKYL82L4M9778022	1	x	x
New York City Transit New York - NYCT	LD64	9830	4RKYL82L6M9778023	1	x	x
New York City Transit New York - NYCT	LD64	9831	4RKYL82L8M9778024	1	x	x
New York City Transit New York - NYCT	LD64	9832	4RKYL82LXM9778025	1	x	x
New York City Transit New York - NYCT	LD64	9837	4RKYL82L3M9778030	1		x
New York City Transit New York - NYCT	LD64	9841	4RKYL82L6M9778040	1		x
New York City Transit New York - NYCT	LD64	9844	4RKYL82L1M9778043	1	x	x
New York City Transit New York - NYCT	LD64	9845	4RKYL82L3M9778044	1		x



# MQR-7621-2374

## Roof Cradle Fuse Box Water Ingress Mitigation Solutions

2022-02





# Mitigation Solution

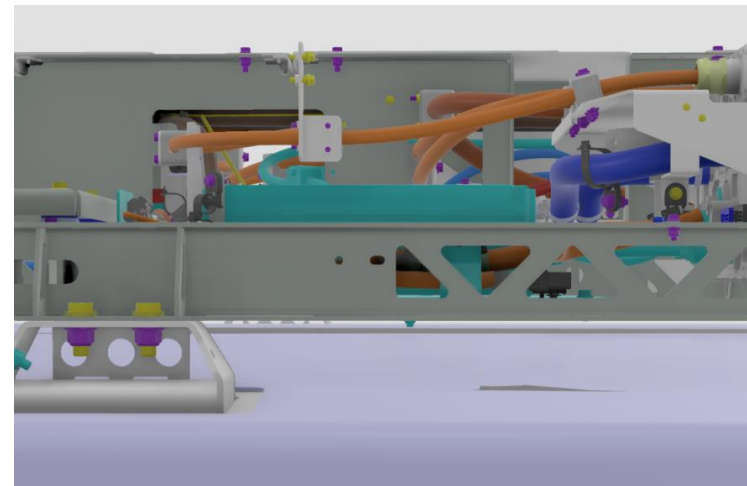
## Drain Hole

Drilling two 13/64" (5mm) hole in the bottom of the box to allow for water evacuation and venting. Although breaking the IP67 rating of the box, the solution is viable as water ingress from the bottom of the box is very unlikely and will allow the box to drain in case of excessive water ingress coming from elsewhere.

The drained water will leak onto the roof of the bus since the fuse box (and cradle) are suspended a few inches over the roof.



**Figure 1:** Drilled hole in the bottom corner of the fuse box allowing water draining.

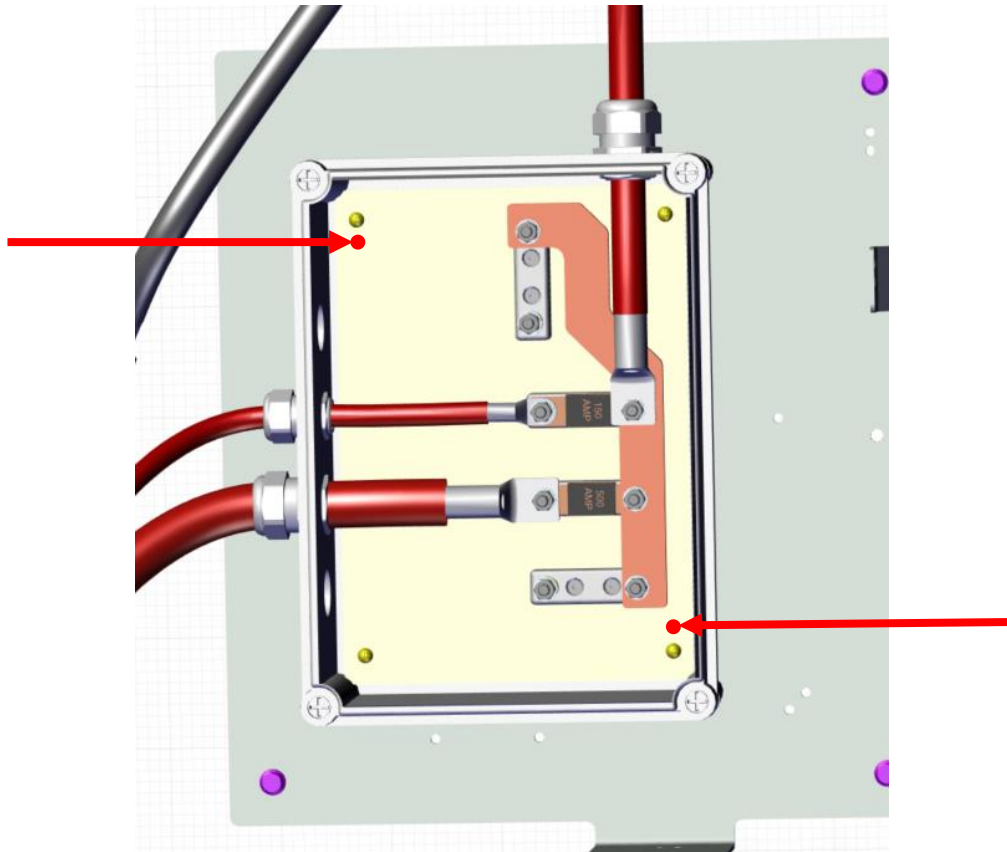


**Figure 2:** Ample room for water to drain from the fuse box to the roof.



# Mitigation Solution

## Drain Hole Locations





# Mitigation Solution

## Drain Hole Test

The fuse box was filled with water. A (5mm) hole was drilled in one of the corners. Any water accumulated was drained.





# Mitigation Solution

## Drain Holes

The 24V cable connections and busbar are installed on fuse blocks on a metal support plate ~16mm above support plate.

The support plate is installed in threaded (plastic) holes in the plastic fuse box ~8mm from the bottom of the plastic fuse box.

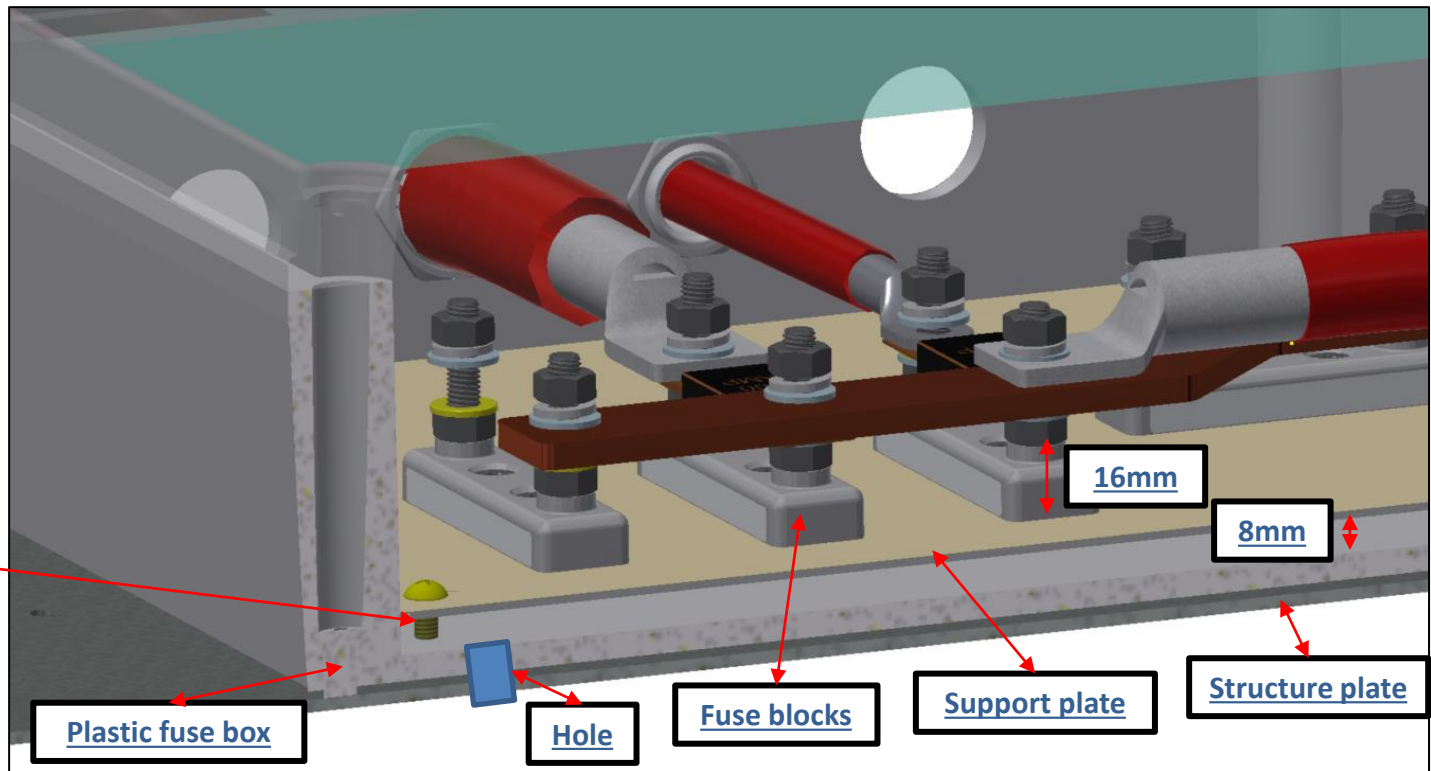
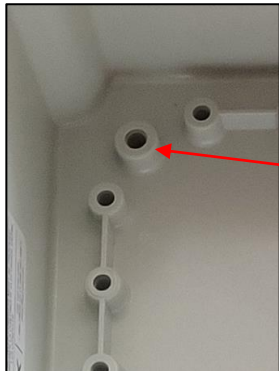


Figure 3: Components inside fuse box



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