

|                     |                             |
|---------------------|-----------------------------|
| REFERENCE:          | Nova Bus Manuals            |
| SECTION:            | 14: Heating and Ventilation |
| RS N°:              | MQR 7621-1829               |
| EFFECTIVE IN PROD.: | N/A                         |

APPLICATION DEADLINE: N/A

|                |                                                                                                                                                     |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| SUBJECT:       | Auxiliary Heater Fuel Filter Assembly Obsolete.                                                                                                     |
| JUSTIFICATION: | A new part kit and work procedure is required to replace the auxiliary heater filter N12950 since the latter has been discontinued by its supplier. |

| LEVEL | DESCRIPTION                                                | DIRECT CHARGES |          | TIME   |
|-------|------------------------------------------------------------|----------------|----------|--------|
|       |                                                            | LABOUR         | MATERIAL |        |
| 1     | Installation of new auxiliary heater fuel filter assembly. | Client         | Client   | 0.5 hr |
| 2     | —                                                          | —              | —        | —      |

**MATERIAL**

| QTY            | PART N° | REV. | DESCRIPTION      | REPLACES PART N° |
|----------------|---------|------|------------------|------------------|
| <b>LEVEL 1</b> |         |      |                  |                  |
| 1              | N98778  |      | Filter Head      | —                |
| 1              | N98779  |      | Filter           | —                |
| 1              | 501335  |      | Elbow 90 degrees | —                |
| 2              | N60469  |      | Adapter          | —                |
| 4              | N23126  |      | Screw            | —                |
| 4              | N56728  |      | Washer           | —                |
| 1              | N98827  |      | Mounting Bracket | —                |
| 2              | N24104  |      | Screw            | —                |
| 2              | N16646  |      | Washer           | —                |
| 2              | N44890  |      | Nut              | —                |
| <b>LEVEL 2</b> |         |      |                  |                  |
| —              | —       | —    | —                | —                |

Materials will be available within 41 days once your order has been placed. To order, please contact Prevost Parts by phone at 1-800-771-6682, by fax at 1-888-668-2555 or by email at [prevostparts.commandes@volvo.com](mailto:prevostparts.commandes@volvo.com). Specify document number, quantity of parts required and shipping address.

**DISPOSAL OF PARTS**

|                    |            |          |                                                                                                                   |
|--------------------|------------|----------|-------------------------------------------------------------------------------------------------------------------|
| REMOVED PARTS ARE: | DISCARDED* | RETAINED | * Dispose of the unused parts and the defective parts in accordance with local environmental standards in effect. |
|                    | Yes        | —        |                                                                                                                   |

**REVISION HISTORY**

| REV. | DATE     | CHANGE DESCRIPTION | WRITTEN BY |
|------|----------|--------------------|------------|
| NR   | 2019SE18 | Initial release    | Yuvaraj    |

APPROVED BY:

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| CLIENT                                          | ORDER | ROAD NUMBER |         | VIN (2NVY/4RKY...) |               | QTY |
|-------------------------------------------------|-------|-------------|---------|--------------------|---------------|-----|
|                                                 |       | FROM        | TO      | FROM               | TO            |     |
| Airdrie Transit - Alberta                       | L664  | —           | —       | L82U2B3000507      | L82U2B3000507 | 1   |
| Airdrie Transit - Alberta                       | L759  | —           | —       | L82U0D3000928      | L82U0D3000928 | 1   |
| Ames Transportation Agency - Iowa               | L707  | 660         | 661     | S92U5C4500159      | S92U1C4500160 | 2   |
| Ames Transportation Agency - Iowa               | L904  | 6101        | 6104    | S92J1G9775221      | S92J7G9775224 | 4   |
| Autobus Brunet Québec                           | L705  | —           | —       | L82U1D3000906      | L82U1D3000906 | 1   |
| Autobus Campeau - Québec                        | L917  | 11          | 12      | L82J1F3001689      | L82J8F3001690 | 2   |
| Autobus Deux-Montagnes Québec (Ref L846 unit 3) | L867  | —           | —       | L82J4E3001345      | L82J4E3001345 | 1   |
| Barrie Ontario - Metrolinx                      | L878  | 1501        | 1504    | L82JXF3001691      | L82J6F3001719 | 4   |
| Barrie Ontario - Metrolinx                      | L955  | 1601        | 1604    | L82J7G9775408      | L82J9G9775412 | 4   |
| Barrie Ontario - Metrolinx                      | LA31  | 1701        | 1705    | L82J0H9775817      | L82J2H9775821 | 5   |
| Barrie Ontario - Metrolinx                      | LA49  | 1706        | 1713    | L82J7H3750855      | L82J4H3750862 | 8   |
| BC Transit - BCT - British Columbia             | L604  | 9434        | 9434    | L82U5C3000597      | L82U5C3000597 | 1   |
| BC Transit - BCT - British Columbia             | L735  | 9435        | 9440    | L82U4C3000848      | L82U8C3000853 | 6   |
| BC Transit - BCT - British Columbia             | L736  | 9441        | 9446    | L82U8D3000854      | L82U7D3000859 | 6   |
| BC Transit - BCT - British Columbia             | L858  | 9447        | 9481    | L82JXE3001401      | L82J5F3001436 | 35  |
| BC Transit - BCT - British Columbia             | L891  | 9482        | 9486    | L82J5F3001565      | L82J2F3001569 | 5   |
| Belleville Transit - Ontario                    | L598  | 67          | 68      | L82U5A3000581      | L82U7A3000582 | 2   |
| Belleville Transit - Ontario                    | L655  | 69          | 69      | L82U3B3000385      | L82U3B3000385 | 1   |
| Belleville Transit - Ontario                    | L702  | 70          | 70      | L82U4D3000706      | L82U4D3000706 | 1   |
| Belleville Transit - Ontario (ref. L754)        | L809  | 71          | 71      | L82U2D4500404      | L82U2D4500404 | 1   |
| Bow Valley Transit - Alberta                    | L712  | 5           | 6       | L82U6C3000804      | L82U8C3000805 | 2   |
| Brampton - Ontario                              | L789  | 1401        | 1408    | L82J4E3001216      | L82J1E3001223 | 8   |
| Brampton - Ontario                              | L816  | 1409        | 1415    | L82J3E3001224      | L82J9E3001230 | 7   |
| Brampton - Ontario                              | L864  | 1501        | 1510    | L82JXF3001500      | L82J6F3001509 | 10  |
| Brampton - Ontario                              | L865  | 1511        | 1519    | L82JXF3001514      | L82J9F3001522 | 9   |
| Brampton - Ontario                              | L942  | 1601        | 1613    | L82J6G3750070      | L82J4G3750083 | 13  |
| Brampton - Ontario                              | L941  | 1614        | 1623    | L82J1G3750123      | L82J2G3750132 | 10  |
| Brampton - Ontario                              | LC23  | 1901        | 1907    | L82J3K3751878      | L82J9K3751884 | 7   |
| Brampton - Ontario                              | LC54  | 1908        | 1916    | L82J0K3751885      | L82JXK3751893 | 9   |
| Brantford - Ontario                             | L663  | 10121       | 10121   | L82U1B3000532      | L82U1B3000532 | 1   |
| Brantford - Ontario                             | L718  | 10123       | 10125   | L82U5C3000826      | L82U9C3000828 | 3   |
| Brantford - Ontario                             | L775  | 10131       | 10132   | L82U1D3000999      | L82U2D3001000 | 2   |
| Brantford - Ontario                             | L928  | 10151       | 10153   | L82J7F3001793      | L82J0F3001795 | 3   |
| Burlington Ontario - Metrolinx                  | L887  | 7017-15     | 7025-15 | L82J7F3001681      | L82J8F3001723 | 9   |
| Burlington Ontario - Metrolinx                  | LB35  | 7033-18     | 7036-18 | L82J9J3751432      | L82J0J3751433 | 2   |
| Calgary Transit - Alberta                       | L601  | 8101        | 8114    | L82U5A4000099      | L82U4A4000112 | 14  |
| Calgary Transit - Alberta                       | L607  | 8115        | 8130    | L82UXA3000477      | L82U6A3000492 | 16  |
| Calgary Transit - Alberta                       | L615  | 8131        | 8158    | L82U1B4000019      | L82U4B4000046 | 28  |
| Calgary Transit - Alberta                       | L624  | 8159        | 8160    | L82U4B4000077      | L82U6B4000078 | 2   |
| Calgary Transit - Alberta                       | L637  | 8161        | 8180    | L82U7B3000356      | L82U2B3000376 | 20  |

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|-----------------------------------------------------|-------|-------------|-------|--------------------|---------------|-----|
|                                                     |       | FROM        | TO    | FROM               | TO            |     |
| Calgary Transit - Alberta                           | L709  | 8181        | 8200  | L82UXC3000806      | L82U3C3000825 | 20  |
| Central Oklahoma Transportation Authority           | L619  | —           | —     | L82X7C3000367      | L82X7C3000367 | 1   |
| Chicago Transit Authority - CTA - Illinois          | L943  | 8200        | 8324  | L82JXG9775225      | L82J3G9775406 | 125 |
| Clemson Area Transit - South Carolina               | L617  | —           | —     | S92U5C4500002      | S92U5C4500002 | 1   |
| Clemson Area Transit - South Carolina (ref. L641)   | L722  | —           | —     | L82U1C4500005      | L82U5C4500010 | 5   |
| Cornwall Ontario - Metrolinx                        | L935  | —           | —     | L82J3F3001838      | L82J5F3001839 | 2   |
| Cornwall Ontario - Metrolinx                        | LA53  | —           | —     | L82J2H3750892      | L82J6H3750894 | 3   |
| Cornwall Ontario - Metrolinx                        | LB55  | —           | —     | L82J8J3751468      | L82J8J3751468 | 1   |
| CT Transit - Connecticut                            | L554  | 1041        | 1065  | S92U1A4000139      | S92U0A4000164 | 25  |
| CT Transit - Connecticut                            | L571  | 1101        | 1110  | S92YXB4000144      | S92Y4B4000169 | 10  |
| Duke University - North Carolina                    | L651  | 1106        | 1107  | S92Y1B4000145      | S92Y3B4000146 | 2   |
| Duke University - North Carolina (ref. L703)        | L641  | 1109        | 1116  | L82U9C4500012      | L82U1C4500022 | 8   |
| Durham Region Transit - Ontario                     | LB36  | 6100        | 6112  | L82J2J3751417      | L82J7J3751431 | 13  |
| Durham Region Transit Ontario - Metrolinx           | L872  | 8551        | 8553  | L82J0F3001523      | L82J4F3001525 | 3   |
| Durham Region Transit Ontario - Metrolinx           | L888  | 8554        | 8559  | L82J2F3001703      | L82J1F3001708 | 6   |
| Durham Region Transit Ontario - Metrolinx           | L996  | 8560        | 8563  | L82J1G3750414      | L82J7G3750417 | 4   |
| Durham Region Transit Ontario - Metrolinx           | LA19  | 8564        | 8565  | L82J9G3750418      | L82J0G3750419 | 2   |
| Durham Region Transit Ontario - Metrolinx           | LA50  | 8566        | 8578  | L82JXH3750901      | L82J1H3750916 | 13  |
| Durham Region Transit Ontario - Metrolinx           | LB11  | 8579        | 8589  | L82J2H9776354      | L82J0H9776367 | 11  |
| Durham Region Transit Ontario - Metrolinx           | LB60  | 7100        | 7103  | L82J5J3751539      | L82J5J3751542 | 4   |
| Fort McMurray Alberta                               | L862  | —           | —     | —                  | —             | 1   |
| Fredericton - New Brunswick                         | L672  | 8111        | 8112  | L82U0B3000540      | L82U2B3000541 | 2   |
| Fredericton - New Brunswick                         | L688  | 8113        | 8113  | L82U8C3000643      | L82U8C3000643 | 1   |
| Fredericton - New Brunswick                         | L774  | 8131        | 8131  | L82U7D3000960      | L82U7D3000960 | 1   |
| Fredericton - New Brunswick                         | L812  | 8141        | 8141  | L82J4E3001202      | L82J4E3001202 | 1   |
| Fredericton - New Brunswick                         | L836  | 8143        | 8143  | L82J9E3001390      | L82J9E3001390 | 1   |
| Fredericton - New Brunswick                         | L901  | 8151        | 8151  | L82J7F3001602      | L82J7F3001602 | 1   |
| Fredericton - New Brunswick                         | L968  | 8161        | 8162  | L82J1G3750218      | L82J3G3750219 | 2   |
| Grand River Transit Ontario - GRT                   | L560  | 21001       | 21009 | L82U2A3000246      | L82U1A3000254 | 9   |
| Grand River Transit Ontario - GRT                   | L633  | 21101       | 21115 | L82U7B3000289      | L82U8B3000303 | 15  |
| Grand River Transit Ontario - GRT                   | L599  | 21116       | 21118 | L82X9B3000465      | L82X2B3000467 | 3   |
| Grand River Transit Ontario - GRT                   | L631  | 21119       | 21121 | L82X4B3000468      | L82X2B3000470 | 3   |
| Grand River Transit Ontario - GRT                   | L668  | 21201       | 21220 | L82U6C3000737      | L82UXC3000756 | 20  |
| Grande Prairie Alberta                              | L834  | —           | —     | L82J7E3001386      | L82J2E3001389 | 4   |
| Greater Toronto Airports Authority - GTAA - Ontario | L616  | —           | —     | L82U4C4500001      | L82U4C4500001 | 1   |
| Groupe Galland - Québec                             | L762  | 7130        | 7130  | L82U5D3000925      | L82U5D3000925 | 1   |
| Guelph - Ontario                                    | L579  | 221         | 224   | L82UXA3000401      | L82U5A3000404 | 4   |
| Guelph - Ontario                                    | L669  | 225         | 228   | L82U9B3000536      | L82U4B3000539 | 4   |
| Guelph - Ontario                                    | L715  | 234         | 235   | L82U3C3000792      | L82U5C3000793 | 2   |
| Guelph - Ontario                                    | L767  | 237         | 239   | L82UXD3000967      | L82U3D3000969 | 3   |

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|                                            |       | FROM        | TO    | FROM               | TO            |     |
| Guelph - Ontario                           | L835  | 240         | 243   | L82J0E3001391      | L82J6E3001394 | 4   |
| Guelph - Ontario                           | L927  | 244         | 247   | L82J1F3001756      | L82J9F3001763 | 4   |
| Halifax - Nova Scotia                      | L558  | 717         | 731   | S92UXA3000293      | S92U6A3000307 | 15  |
| Halifax - Nova Scotia                      | L613  | 732         | 741   | S92UXB3000019      | S92UXB3000028 | 10  |
| Halifax - Nova Scotia                      | L693  | 526         | 534   | L82U8C3000657      | L82U7C3000665 | 9   |
| Halifax - Nova Scotia                      | L710  | 1160        | 1161  | L82U7C3000780      | L82U9C3000781 | 2   |
| Halifax - Nova Scotia                      | L708  | 742         | 761   | S92UXC3000782      | S92U3C3000803 | 20  |
| Hampton Roads - Virginia (L754)            | L802  | —           | —     | L82U1D4500278      | L82UXD4500408 | 7   |
| Keolis Canada - Québec                     | L689  | 29237       | 29236 | L82U6D3000707      | L82U1D3000713 | 7   |
| Keolis Canada - Québec                     | L750  | 29242       | 29246 | L82U0D3000864      | L82U8D3000868 | 5   |
| Keolis Canada - Québec                     | L753  | 29247       | 29248 | L82UXD3000869      | L82U6D3000870 | 2   |
| Keolis Canada - Québec                     | L754  | 29249       | 29252 | L82U1D4500281      | L82U6D4500289 | 8   |
| Keolis Canada - Québec                     | L854  | —           | —     | L82JXE3001396      | L82J8E3001400 | 5   |
| Keolis Canada - Québec                     | L876  | —           | —     | L82J5F3001453      | L82J2F3001457 | 5   |
| Keolis Canada - Québec                     | L906  | 29268       | 29270 | L82J9F3001732      | L82J2F3001734 | 3   |
| Kings Transit - Nova Scotia                | L581  | —           | —     | L82U2B3000054      | L82U2B3000054 | 1   |
| Kingston - Ontario                         | LB34  | 1821        | 1841  | L82J3J3751412      | L82J0J3751416 | 5   |
| Kingston Ontario - Metrolinx               | L880  | 1502        | 1502  | L82JXF3001786      | L82JXF3001786 | 1   |
| Kingston Ontario - Metrolinx               | L925  | 1504        | 1510  | L82J5F3001808      | L82J5F3001811 | 4   |
| Kingston Ontario - Metrolinx               | L889  | 1687        | 1689  | L82J1G3750252      | L82J5G3750254 | 3   |
| Kingston Ontario - Metrolinx               | L954  | 1683        | 1686  | L82J4G3750259      | L82J4G3750262 | 4   |
| Kingston Ontario - Metrolinx               | LA60  | 1825        | 1837  | L82J7H3750922      | L82J8H3750931 | 6   |
| Kingston Ontario - Metrolinx               | LA59  | 1803        | 1818  | L82JXH3750932      | L82J4H3750943 | 11  |
| Krapf's Coaches - Pennsylvania (ref. L833) | L754  | —           | —     | L82U4D4500405      | L82U4D4500405 | 1   |
| Les Autobus Transcobec - Québec            | L606  | 619         | 619   | L82U9B3000018      | L82U9B3000018 | 1   |
| Les Autobus Transcobec - Québec            | L644  | 620         | 620   | L82U2C3000346      | L82U2C3000346 | 1   |
| Les Autobus Transcobec - Québec            | L714  | 621         | 622   | L82U0D3000735      | L82U2D3000736 | 2   |
| Lethbridge - Alberta                       | L868  | 180         | 180   | L82J2F3001510      | L82J2F3001510 | 1   |
| Milton - Ontario - Metrolinx               | L884  | 1701        | 1702  | L82J0G3750338      | L82J2G3750339 | 2   |
| Milton - Ontario - Metrolinx               | LA51  | 1801        | 1803  | L82J3H3750917      | L82J7H3750919 | 3   |
| Milton - Ontario - Metrolinx               | LB33  | 1804        | 1804  | L82J7J3751543      | L82J7J3751543 | 1   |
| Minnesota Valley Transit Authority - MVTA  | L706  | 4252        | 4258  | L82U4C4500127      | L82UXC4500133 | 7   |
| Mississauga Ontario                        | LB12  | 1801        | 1812  | L82J9J9776714      | L82J3J9776725 | 12  |
| Moncton (Codiac) - New Brunswick           | L569  | —           | —     | L82U4B4000001      | L82U4B4000001 | 1   |
| Moncton (Codiac) - New Brunswick           | L570  | —           | —     | L82U6B4000002      | L82U6B4000002 | 1   |
| Niagara Falls - Ontario                    | L652  | —           | —     | S92U3C3000607      | S92U6C3000617 | 11  |
| Niagara Falls - Ontario                    | L653  | —           | —     | L82U9C3000618      | L82U9C3000621 | 5   |
| Niagara Falls - Ontario                    | L771  | 1396        | 1397  | L82U9D3000958      | L82U0D3000959 | 2   |
| Niagara Parks Commission - Ontario         | L685  | 9001        | 9009  | S92U9C3000644      | S92U8C3000652 | 9   |
| Niagara Parks Commission - Ontario         | L656  | 9010        | 9011  | L82U0C3000653      | L82U2C3000654 | 2   |

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|                                                      |       | FROM        | TO    | FROM               | TO            |     |
| North Bay Ontario - Metrolinx                        | L895  | 784         | 785   | L82J7F3001678      | L82J9F3001679 | 2   |
| North Bay Ontario - Metrolinx                        | L979  | 786         | 787   | L82J4G3750312      | L82J6G3750313 | 2   |
| North Bay Ontario - Metrolinx                        | LB48  | 788         | 790   | L82J7J3751395      | L82J0J3751397 | 3   |
| Oakville Ontario - Metrolinx                         | L874  | —           | —     | L82J6F3001526      | L82JXF3001531 | 6   |
| Oakville Ontario - Metrolinx                         | L881  | —           | 1505  | L82J2F3001717      | L82J8F3001740 | 5   |
| Oakville Ontario - Metrolinx                         | L945  | —           | —     | L82J9G3750211      | L82JXG3750217 | 7   |
| Oakville Ontario - Metrolinx                         | LA55  | —           | —     | L82J6H3750880      | L82J5H3750885 | 6   |
| Oakville Ontario - Metrolinx                         | LB93  | —           | —     | L82J3K3751749      | L82J5K3751753 | 5   |
| Orillia Ontario - Metrolinx                          | L965  | 1722        | 1724  | L82J3G3750320      | L82J7G3750322 | 3   |
| Orillia Ontario - Metrolinx                          | LA61  | 1825        | 1826  | L82J2J3751031      | L82J4J3751032 | 2   |
| Ottawa - OC transpo - Metrolinx                      | LB80  | 4601        | 4609  | L82J0J3751576      | L82J3J3751586 | 9   |
| Ottawa - OC transpo - Metrolinx                      | LC16  | 4610        | 4682  | L82J7K3751771      | L82JXK3751912 | 73  |
| Peterborough - Ontario                               | L770  | 55          | 60    | L82U0D3000993      | L82UXD3000998 | 6   |
| Peterborough - Ontario                               | L870  | 61          | 63    | L82JXF3001612      | L82J3F3001614 | 3   |
| Peterborough - Ontario                               | L919  | 64          | 66    | L82J6F3001767      | L82JXF3001769 | 3   |
| Peterborough - Ontario                               | L966  | 67          | 71    | L82J2G3750230      | L82JXG3750234 | 5   |
| Puerto Rico (ref. L754)                              | L788  | 01          | 16    | L82UXD4500277      | L82U0D4500305 | 16  |
| Red Deer - Alberta                                   | L726  | 1017        | —     | L82UXC3000840      | L82U1C3000841 | 2   |
| Red Deer - Alberta                                   | L766  | 1104        | 1105  | L82U7D3001025      | L82U9D3001026 | 2   |
| Red Deer - Alberta                                   | L813  | 10008       | 10009 | L82J2E3001361      | L82J4E3001362 | 2   |
| Red Deer - Alberta                                   | L869  | 10006       | 10007 | L82J9F3001570      | L82J0F3001571 | 2   |
| Red Deer - Alberta                                   | L926  | 10037       | 10066 | L82J2F3001796      | L82J4F3001797 | 2   |
| Regina - Saskatchewan                                | L561  | 631         | 644   | L82U8B4000003      | L82UXB4000018 | 14  |
| Regina - Saskatchewan                                | L639  | 645         | 654   | L82U1B3000336      | L82U2B3000345 | 10  |
| Regina - Saskatchewan                                | L748  | 655         | 662   | L82U3D3000874      | L82U0D3000881 | 8   |
| Regina - Saskatchewan                                | L776  | 663         | 669   | L82U4D3001001      | L82U5D3001007 | 7   |
| Regina - Saskatchewan                                | L807  | 671         | 685   | L82J8E3001137      | L82J2E3001151 | 15  |
| Regina - Saskatchewan                                | L892  | 686         | 691   | L82J5F3001484      | L82J4F3001489 | 6   |
| Robert Paquette autobus et fils - Québec             | L605  | 617         | 619   | L82U3B3000015      | L82U7B3000017 | 3   |
| Robert Paquette autobus et fils - Québec             | L611  | —           | —     | L82U5B3000064      | L82U5B3000064 | 1   |
| Robert Paquette autobus et fils - Québec             | L596  | —           | —     | L82X2B3000212      | L82X2B3000212 | 1   |
| Robert Paquette autobus et fils - Québec             | L760  | —           | —     | L82U4D3000902      | L82U4D3000902 | 1   |
| Robert Paquette autobus et fils - Québec             | L765  | —           | —     | L82U6E3000966      | L82U6E3000966 | 1   |
| Robert Paquette autobus et fils - Québec             | L846  | 625         | —     | L82J0E3001343      | L82J2E3001344 | 2   |
| Robert Paquette autobus et fils - Québec             | L851  | 627         | 627   | L82J3F3001452      | L82J3F3001452 | 1   |
| Robert Paquette autobus et fils - Québec             | L852  | —           | —     | L82J8F3001673      | L82J8F3001673 | 1   |
| Robert Paquette autobus et fils - Québec             | L855  | —           | —     | L82JXG3750184      | L82JXG3750184 | 1   |
| Robert Paquette autobus et fils - Québec (ref. L803) | L780  | —           | —     | L82U5D3000987      | L82U5D3000987 | 1   |
| Sarnia Ontario - Metrolinx                           | L873  | 151         | 152   | L82J0F3001599      | L82J0F3001600 | 2   |
| Sarnia Ontario - Metrolinx                           | L883  | 153         | 153   | L82J4G3750021      | L82J4G3750021 | 1   |

| CLIENT                                                 | ORDER | ROAD NUMBER |       | VIN (2NVY/4RKY...) |               | QTY |
|--------------------------------------------------------|-------|-------------|-------|--------------------|---------------|-----|
|                                                        |       | FROM        | TO    | FROM               | TO            |     |
| Sarnia Ontario - Metrolinx                             | L963  | 162         | 162   | L82J7G3750305      | L82J7G3750305 | 1   |
| Sarnia Ontario - Metrolinx                             | LA36  | 171         | 172   | L82J8H3750752      | L82JXH3750753 | 2   |
| Saskatoon - Saskatchewan                               | L568  | 1310        | 1310  | S92U9B3000013      | S92U9B3000013 | 1   |
| Saskatoon - Saskatchewan                               | L618  | 1311        | 1311  | S92U1C3000377      | S92U1C3000377 | 1   |
| Saskatoon - Saskatchewan                               | L690  | 1201        | 1204  | L82U6C3000690      | L82U1C3000693 | 4   |
| Saskatoon - Saskatchewan                               | L831  | 1401        | 1405  | L82J7E3001307      | L82J9E3001311 | 5   |
| Saskatoon - Saskatchewan                               | L894  | 1501        | 1510  | L82J0F3001490      | L82J7F3001499 | 10  |
| Saskatoon - Saskatchewan                               | L953  | 1601        | 1610  | L82J9G3750158      | L82JXG3750167 | 10  |
| Sault Ste. Marie Ontario                               | L934  | —           | —     | L82JXG3750038      | L82JXG3750038 | 1   |
| Sault Ste-Marie Transit Services - Ontario (ref. L686) | L641  | 135         | 139   | L82U7C4500008      | L82U6C4500016 | 5   |
| Sault Ste-Marie Transit Services - Ontario (ref. L751) | L754  | —           | —     | L82U7D4500284      | L82U7D4500284 | 1   |
| Skyport International - Québec                         | L931  | —           | —     | L82J1F3001806      | L82J3F3001807 | 2   |
| St. Catharines Ontario - Metrolinx                     | L879  | 1501        | 1504  | L82J4F3001587      | L82J4F3001590 | 4   |
| St. Catharines Ontario - Metrolinx                     | L898  | 1560        | 1560  | S92J4F3001663      | S92J4F3001663 | 1   |
| St. Catharines Ontario - Metrolinx                     | L882  | 1601        | 1605  | L82J9G3750225      | L82J9G3750229 | 5   |
| St. Catharines Ontario - Metrolinx                     | LB09  | 1740        | 1740  | L82J6J3751033      | L82J6J3751033 | 1   |
| St. Catharines Ontario - Metrolinx                     | LA62  | 1801        | 1813  | L82J8J3751034      | L82J4J3751046 | 13  |
| St. John - New Brunswick                               | L871  | 40585       | 40586 | L82J8F3001592      | L82JXF3001593 | 2   |
| St. John - New Brunswick                               | L939  | 40687       | 40687 | L82J0G3750078      | L82J0G3750078 | 1   |
| St. John's - Newfoundland                              | L687  | 1201        | 1209  | L82U7C3000598      | L82U2C3000606 | 9   |
| St. John's - Newfoundland                              | L731  | 1310        | 1314  | L82U3C3000842      | L82U2C3000847 | 5   |
| St. John's - Newfoundland                              | L808  | 1415        | 1419  | L82J4E3001152      | L82J1E3001156 | 5   |
| St. John's - Newfoundland                              | L875  | 1520        | 1525  | L82JXF3001478      | L82J3F3001483 | 6   |
| St. John's - Newfoundland                              | L930  | 1626        | 1630  | L82J7F3001826      | L82J9F3001830 | 5   |
| Stratford - Ontario                                    | L634  | —           | —     | L82UXB3000352      | L82UXB3000352 | 1   |
| Stratford - Ontario                                    | L752  | —           | —     | L82U9D3000863      | L82U9D3000863 | 1   |
| Stratford - Ontario                                    | L893  | —           | —     | L82J9F3001584      | L82J0F3001585 | 2   |
| Strathcona County Transit - Alberta                    | L580  | 2011        | 2023  | L82U1A3000464      | L82U8A3000476 | 13  |
| Strathcona County Transit - Alberta                    | L659  | 2024        | 2028  | L82U7B3000440      | L82U4B3000444 | 5   |
| Sudbury - Ontario                                      | L632  | 811         | 817   | L82U9B3000326      | L82U4B3000332 | 7   |
| Sudbury - Ontario                                      | L740  | 831         | 833   | L82U1D3000887      | L82U5D3000889 | 3   |
| Sudbury - Ontario                                      | L890  | 851         | 855   | L82JXF3001609      | L82J6F3001641 | 5   |
| Thunder Bay - Ontario                                  | L614  | 20165       | 20167 | L82UXB3000061      | L82U3B3000063 | 3   |
| Thunder Bay - Ontario                                  | L662  | 20168       | 20168 | L82U3B3000533      | L82U7B3000535 | 3   |
| Thunder Bay - Ontario                                  | L739  | 20172       | 20174 | L82U3D3000860      | L82U7D3000862 | 3   |
| Thunder Bay - Ontario                                  | L806  | 20176       | 20177 | L82J6E3001170      | L82J8E3001171 | 2   |
| Thunder Bay - Ontario                                  | L863  | 20178       | 20180 | L82J8F3001558      | L82J6F3001560 | 3   |
| Timmins - Ontario                                      | L661  | 97          | 97    | L82U9B3000486      | L82U9B3000486 | 1   |
| Timmins - Ontario                                      | L720  | 12-98       | 12-98 | L82U0C3000829      | L82U0C3000829 | 1   |
| Timmins - Ontario                                      | L783  | 99          | 100   | L82U8D3001017      | L82UXD3001018 | 2   |

| CLIENT                                             | ORDER | ROAD NUMBER |         | VIN (2NVY/4RKY...) |               | QTY |
|----------------------------------------------------|-------|-------------|---------|--------------------|---------------|-----|
|                                                    |       | FROM        | TO      | FROM               | TO            |     |
| Timmins - Ontario                                  | L839  | —           | —       | L82J8E3001395      | L82J8E3001395 | 1   |
| Toronto Transit Commission Ontario - TTC           | L729  | 9000        | 9000    | S92U9D3000905      | S92U9D3000905 | 1   |
| Toronto Transit Commission Ontario - TTC           | L738  | 9001        | 9026    | S92J6D3001094      | S92J7D3001119 | 26  |
| Toronto Transit Commission Ontario - TTC           | L777  | 9027        | 9152    | S92J7E3001123      | S92J6E3001372 | 126 |
| Toronto Transit Commission Ontario - TTC           | L859  | 8400        | 8400    | L82J5F3001405      | L82J5F3001405 | 1   |
| Toronto Transit Commission Ontario - TTC           | L860  | 8401        | 8504    | L82J0F3001554      | L82JXF3001805 | 104 |
| Toronto Transit Commission Ontario - TTC           | L937  | 8510        | 8617    | L82J9G3750001      | L82J3G3750401 | 108 |
| Transdev - Québec                                  | L597  | —           | —       | L82U1B3000014      | L82U1B3000014 | 1   |
| Transdev - Québec                                  | L420  | —           | —       | L82U8B3000060      | L82U8B3000060 | 1   |
| Transdev - Québec                                  | L630  | —           | —       | L82U4C3000347      | L82U6C3000351 | 5   |
| Transdev - Québec                                  | L629  | 3005302     | 3007302 | L82UXC3000353      | L82U3C3000355 | 3   |
| Transdev - Québec                                  | L696  | —           | —       | L82U2D3000722      | L82U2D3000722 | 1   |
| Transdev - Québec                                  | L698  | —           | —       | L82U4D3000723      | L82U6D3000724 | 2   |
| Transdev - Québec                                  | L699  | —           | —       | L82U7D3000733      | L82U7D3000733 | 1   |
| Transdev - Québec                                  | L701  | —           | —       | L82U9D3000734      | L82U9D3000734 | 1   |
| Transdev - Québec                                  | L756  | —           | —       | L82U0E3000977      | L82U4E3001016 | 4   |
| Transdev - Québec                                  | L780  | —           | —       | L82U7D3000988      | L82U9D3000992 | 5   |
| Transdev - Québec                                  | L810  | —           | —       | L82J6E3001136      | L82J6E3001136 | 1   |
| Transdev - Québec                                  | L827  | 3031304     | 3040304 | L82J6E4500557      | L82J7E4500566 | 10  |
| Transdev - Québec                                  | L828  | 3042214     | 3043214 | L82J6E3001279      | L82J2E3001280 | 2   |
| Transdev - Québec                                  | L830  | 3041224     | 3041224 | L82J4E3001281      | L82J4E3001281 | 1   |
| Transdev - Québec                                  | L829  | 3044254     | 3044254 | L82J9E3001292      | L82J9E3001292 | 1   |
| Transdev - Québec                                  | L905  | —           | —       | L82J1F3001658      | L82J5F3001680 | 6   |
| Transdev - Québec (ref. L638)                      | L561  | —           | —       | L82U7B4000011      | L82U9B4000012 | 2   |
| University of Alabama - Alabama                    | L640  | 7022        | 7023    | L82U9B4000141      | L82U0B4000142 | 2   |
| University of Alabama - Alabama                    | L671  | 7024        | 7025    | L82U5C4500119      | L82U1C4500120 | 2   |
| University of Alabama - Alabama                    | L727  | 7026        | 7027    | L82U4D4500310      | L82U6D4500311 | 2   |
| University of Colorado - Colorado                  | L627  | —           | —       | S92UXB4000139      | S92U6B4000140 | 2   |
| Vancouver Airport Authority - YVR British Columbia | L912  | 173         | 178     | L82L5F3001812      | L82L4F3001817 | 6   |
| Vancouver Airport Authority - YVR British Columbia | L856  | 705         | 706     | L82LXH3750530      | L82L1H3750531 | 2   |
| Welland Ontario - Metrolinx                        | L866  | —           | —       | L82J9F3001648      | L82J9F3001648 | 1   |
| Welland Ontario - Metrolinx                        | L933  | —           | —       | L82J1G3750011      | L82J1G3750011 | 1   |
| Welland Ontario - Metrolinx                        | L991  | —           | —       | L82J9G3750287      | L82J9G3750287 | 1   |
| Welland Ontario - Metrolinx                        | LA52  | —           | —       | L82J2H3750911      | L82J4H3750912 | 2   |
| Welland Ontario - Metrolinx                        | LA93  | —           | —       | L82J6H3750913      | L82J6H3750913 | 1   |
| Whitehorse - Yukon                                 | L784  | 43          | 43      | L82U9D3001057      | L82U9D3001057 | 1   |
| Windsor - Ontario                                  | LB24  | 8025        | 8026    | L82JXJ3751424      | L82J1J3751425 | 2   |
| Windsor Ontario - Metrolinx                        | L886  | 570         | 577     | L82J8F3001818      | L82J5F3001825 | 8   |
| Windsor Ontario - Metrolinx                        | LA56  | 578         | 601     | L82J5J3751007      | L82J0J3751030 | 24  |
| Woodstock - Ontario                                | L778  | —           | —       | L82U2D3001014      | L82U2D3001014 | 1   |

| CLIENT                                    | ORDER | ROAD NUMBER |       | VIN (2NVY/4RKY...) |               | QTY |
|-------------------------------------------|-------|-------------|-------|--------------------|---------------|-----|
|                                           |       | FROM        | TO    | FROM               | TO            |     |
| Woodstock - Ontario                       | L832  | 1415        | 1415  | L82J9E3001342      | L82J9E3001342 | 1   |
| Woodstock - Ontario                       | L923  | 15-16       | 15-16 | L82J9F3001746      | L82J9F3001746 | 1   |
| York Regional Transit - Ontario           | L562  | 1080        | 1082  | S92U2A3000420      | S92U6A3000422 | 3   |
| York Regional Transit - Ontario           | L572  | 1083        | 1094  | S92U3A3000569      | S92U2A3000580 | 12  |
| York Regional Transit - Ontario           | L654  | 1370        | 1390  | S92U1D3000946      | S92U2D3000986 | 21  |
| York Regional Transit - Ontario           | L761  | 1391        | 1396  | S92U6D3001008      | S92UXD3001013 | 6   |
| York Regional Transit Ontario - Metrolinx | L896  | 1501        | 1517  | L82J2F3001619      | L82JXF3001741 | 17  |
| York Regional Transit Ontario - Metrolinx | L936  | 1518        | 1518  | L82J3G3750012      | L82J3G3750012 | 1   |
| York Regional Transit Ontario - Metrolinx | L967  | 1601        | 1621  | L82J2G9775414      | L82J8G9775627 | 21  |
| York Regional Transit Ontario - Metrolinx | LA07  | 1701        | 1715  | L82J9G3750340      | L82JXG3750363 | 15  |
| York Regional Transit Ontario - Metrolinx | L964  | 1770        | 1774  | S92J6G3750420      | S92J3G3750424 | 5   |

**WARNING**

Follow your internal safety procedures.

## PROCEDURE

- 1.1. Park the vehicle on an even surface with transmission in neutral (N).
- 1.2. Turn the ignition switch to OFF position and engage the parking brake.
- 1.3. Set the master control switch in the STOP position (see figure 1).

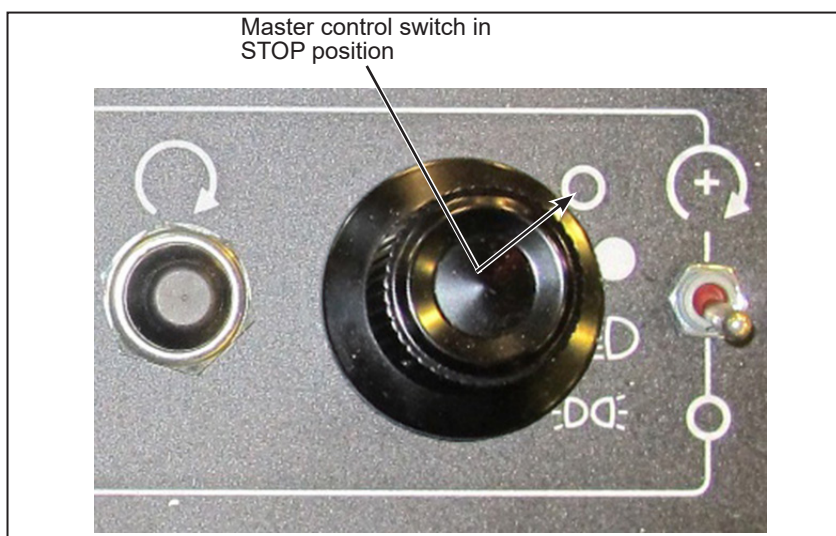


Figure 1 - Master Control Switch in STOP Position

- 1.4. Set the battery disconnect switch in the battery compartment to the OFF position (see figure 2).

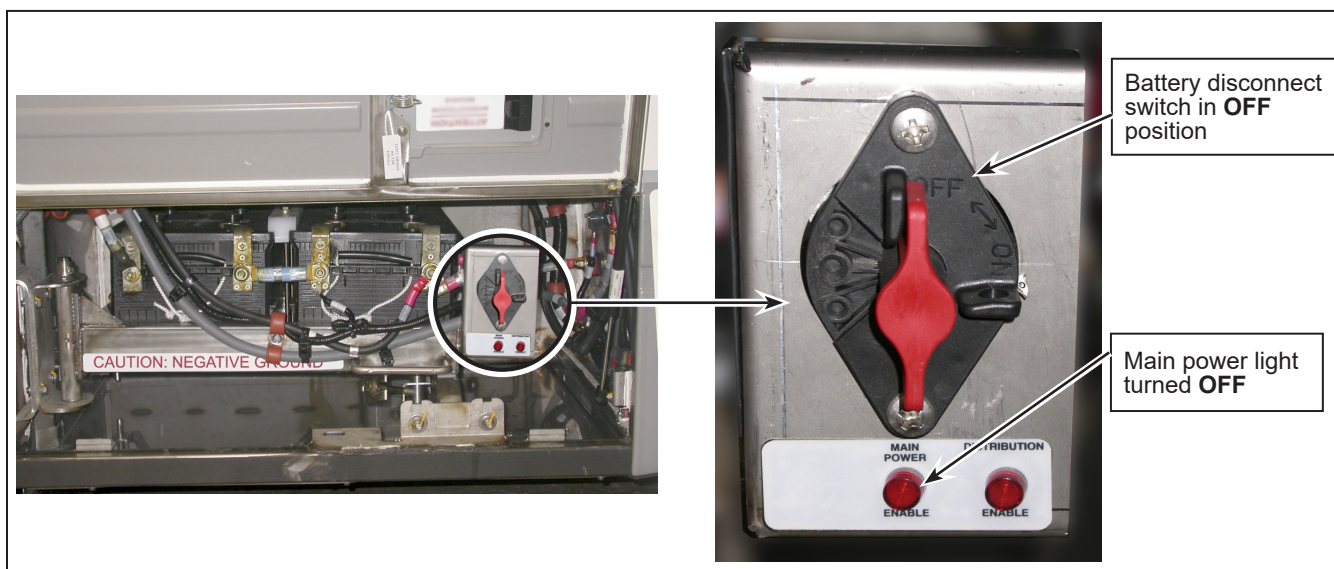


Figure 2 - View of Battery Disconnect Switch

## Removal of auxiliary heater fuel filter

- 1.5. The auxiliary heating device is accessible through the auxiliary heating device access door, at the rear of the vehicle, on the street side (see figure 3).

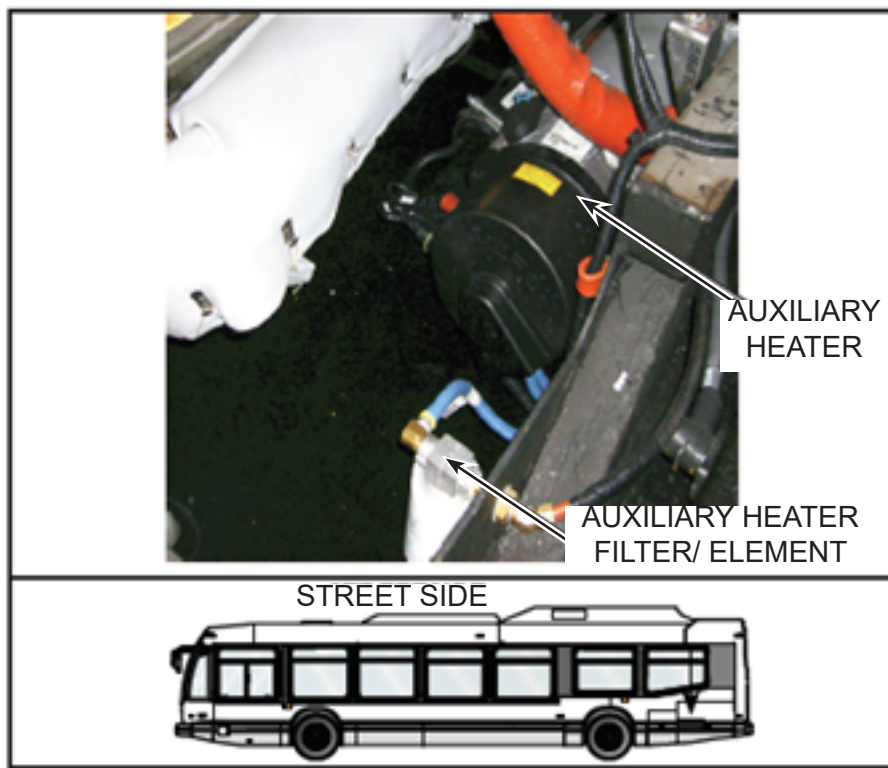


Figure 3 - View of Auxiliary Heater Fuel Filter



### NOTE

While replacing the filter, make sure to close the supply valve on the filter head.



### WARNING

Before removing the nuts and bolts, take the necessary precautions to prevent the support from swinging downward suddenly and freely.

- 1.6. To prevent fuel leaks, the ball valve PN N24140 on the inlet of the primary filter should be closed when changing fuel filters.
- 1.7. Remove and discard the elbow PN 0444040, nipple PN 0443978 and filter assembly PN N12950. Make sure the system is not pressurized (see figure 4).
- 1.8. Disconnect the fuel supply hose with 45 degree fitting connected from the bulkhead fitting and cover with a cap to avoid leakage and draining of the tank.
- 1.9. Remove the ball valve connecting the bulkhead fitting from the filter side and bulkhead fitting (do not discard needed later).

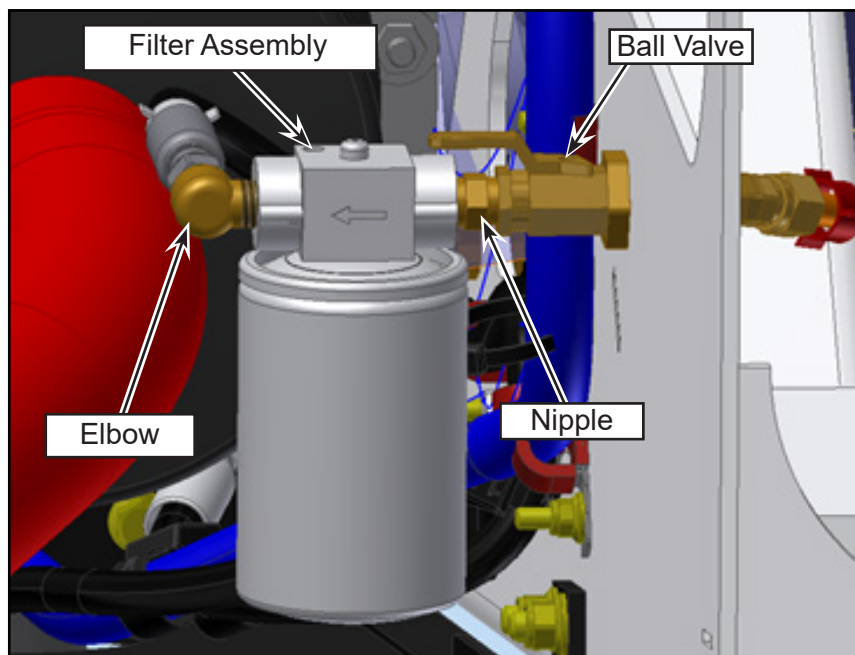


Figure 4 - Removal of Fuel Filter and Fittings

## Installation of auxiliary heater fuel filter

- 1.10. Assemble the fuel filter PN N98779 to the fuel filter head PN N98778. Make sure fuel filter is filled with diesel fuel before installing it and tighten it on the mounting head (see figure 5).
- 1.11. Fix the adapters PN N60469 (2x) to 1/2" NPT ports (2x) of fuel filter head PN N98778 and Fix the 90 degree elbow PN 501335 (1x) to the adapter PN N60469 fixed to the outlet port of the fuel filter assembly. All NPT fittings are hand tighten and 1.5 turns with the wrench (see figure 5).
- 1.12. Install previously removed bulkhead fitting to the adapter PN N60469 fixed to the inlet port of the fuel filter assembly. Remove and discard the nut from the bulkhead fitting (see figure 5).

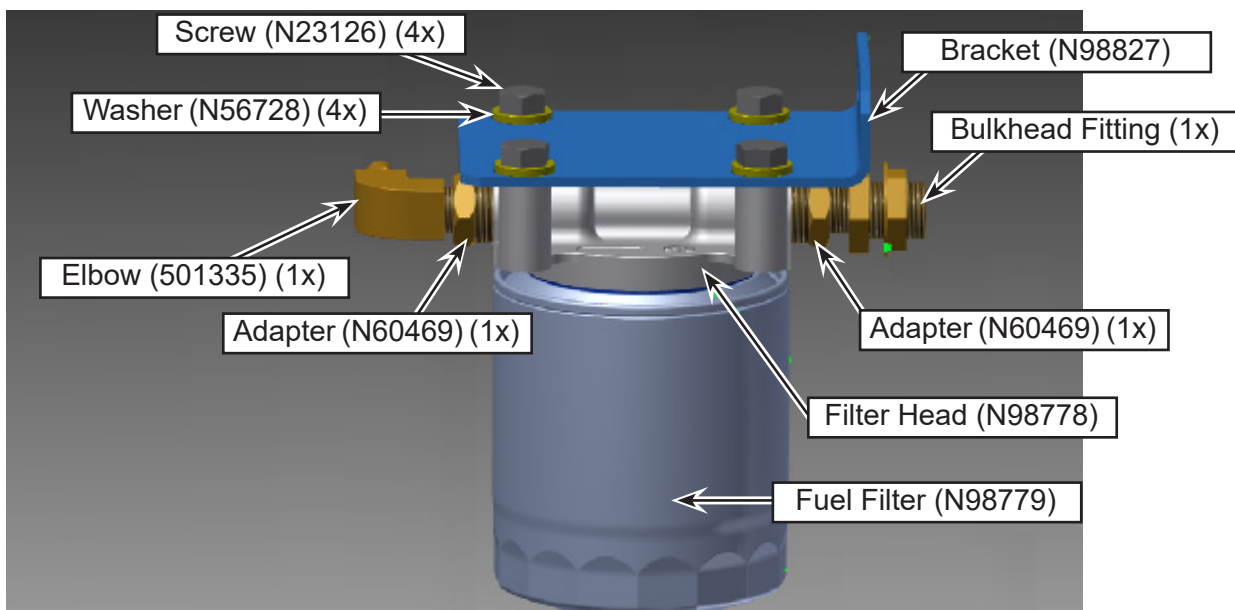


Figure 5 - Assembly of Fuel Filter, Filter Head, Fittings to the Mounting Bracket

**NOTE**

When mounting the fittings PN N60469 (2x) and PN 501335 (1x) on the filter, Loctite 565 PN N37086 should be used.

- 1.13. Install the fuel filter assembly with the fittings to the mounting bracket PN N98827 using screw PN N23126 (4x) and washer PN N56728 (4x). Screws are not be tighten yet as the mounting bracket needs to be moved for adjustment (see figure 5).
- 1.14. To mount the new fuel filter assembly with mounting bracket to the frame, use existing bulkhead fitting hole to properly position the assembly before marking (see figure 6).
- 1.15. Mark the drill position and drill through the 2 holes of mounting bracket using a 7 mm drill bit (see figure 6).

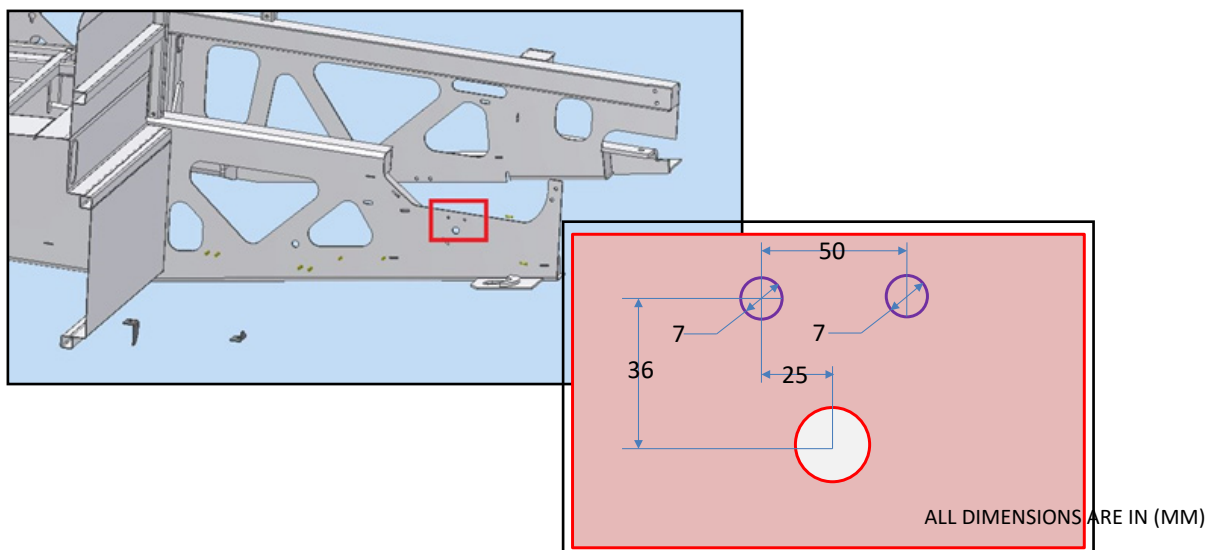


Figure 6 - Drilling Location for mounting the Fuel Filter Assembly Barcket.

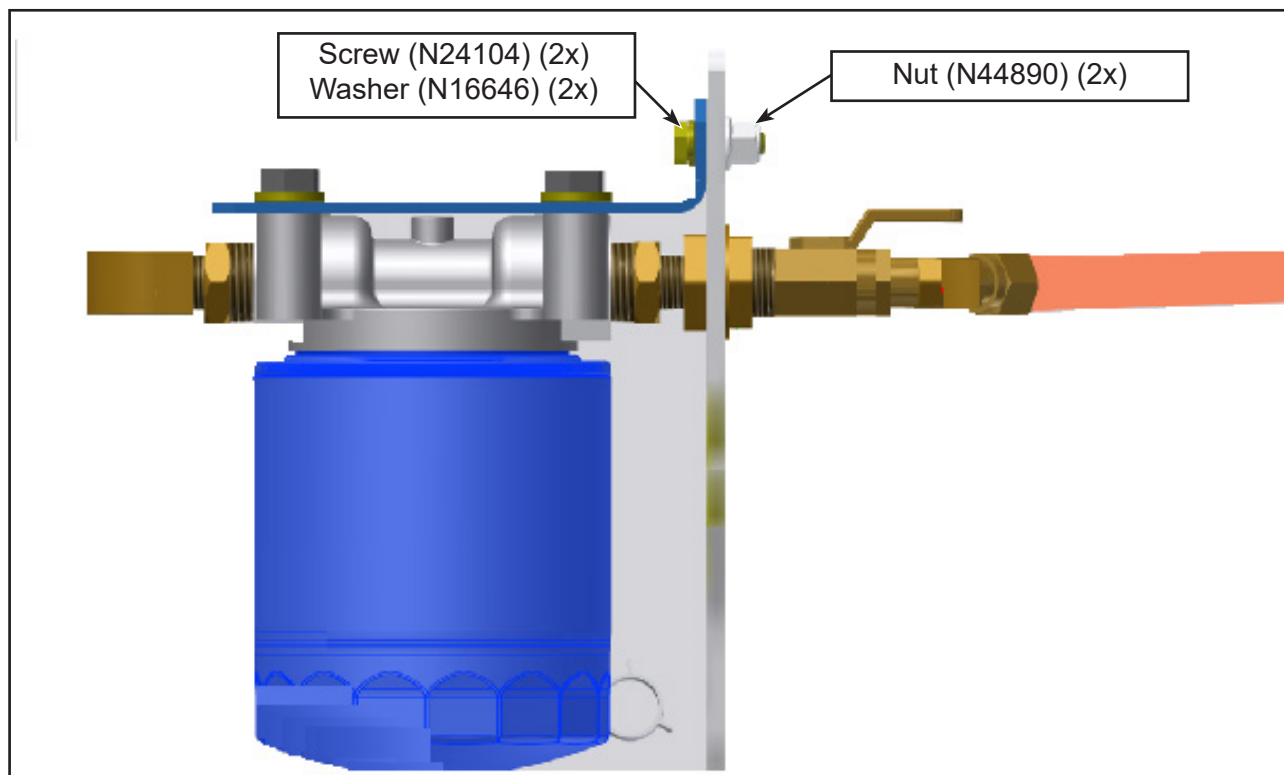
- 1.16. Install the Mounting bracket with fuel filter assembly to the frame using screw PN N24104 (2x), washer PN N16646 (2x) and nut PN N44890 (2x). Make sure the mounting bracket is fixed rigidly to withstand the vibration. Torque to 9.5 NM (+/- 1) (see figure 7).
- 1.17. Tighten the screws PN N23126 (4x) to torque 33 NM (+/- 3) (see figure 7).
- 1.18. Install 45 degree fitting (with ball valve) of supply hose on the bulkhead fitting (see figure 7).
- 1.19. Reinstall the removed hoses (along with the fittings) on each side of the fuel filter and open the valves of fuel line.

**NOTE**

When mounting the 45 degree fitting use Loctite 565 PN N37086.

**WARNING**

To prevent fuel leaks, make sure the filter connections are properly tightened. Do not overtight.



*Figure 7 - Typical View of Auxiliary Heater Fuel Filter Assembly*

- 1.20. Start the engine, make sure there are no leaks.
- 1.21. Before returning the bus to service, test and restart the system by following the instructions below.
  - 1.21.1. Use the test function of the auxiliary heating system.
  - 1.21.2. Activate the auxiliary heater ignition request in the rear engine control box in the engine compartment.
  - 1.21.3. Operate the system until combustion is constant and there is no ignition cut-off. At least 5 to 10 minutes. Restart the sequence if necessary.
- 1.22. Set the master control switch in the ON position.
- 1.23. Set the battery disconnect switch in the battery compartment to the ON position.
- 1.24. Return the bus to service.