

|                     |                      |
|---------------------|----------------------|
| REFERENCE:          | Nova Bus Manuals     |
| SECTION:            | 08: Air dryer system |
| RS N°:              | NA                   |
| EFFECTIVE IN PROD.: | NA                   |

APPLICATION DEADLINE:NA

|                |                                 |
|----------------|---------------------------------|
| SUBJECT:       | Tandem air dryer                |
| JUSTIFICATION: | Replacement of Tandem air dryer |

| LEVEL | DESCRIPTION                  | DIRECT CHARGES |          | TIME   |
|-------|------------------------------|----------------|----------|--------|
|       |                              | LABOUR         | MATERIAL |        |
| 1     | Replace tandem air dryers in | Client         | Client   | 45 min |
| 2     | –                            | –              | –        | –      |

## MATERIAL

| QTY         | PART N°  | REV. | DESCRIPTION                | REPLACES PART N° |
|-------------|----------|------|----------------------------|------------------|
| LEVEL 1     |          |      |                            |                  |
| 1           | N8902665 | –    | Tandem dual air dryer unit | –                |
| 1           | 0144027  | –    | Plug                       | –                |
| 25. 1/2 in. | 8861146  | –    | 1/4 in. green hose         | –                |
| LEVEL 2     |          |      |                            |                  |
| –           | –        | –    | –                          | –                |

## 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   | 2015JU12 | Initial release    | Wilder Galiano |

| CLIENT            | ORDER | ROAD NUMBER |     | VIN (2NVY/4RKY...) |               | QTY |
|-------------------|-------|-------------|-----|--------------------|---------------|-----|
|                   |       | FROM        | TO  | FROM               | TO            |     |
| Honolulu - Hawaii | L559  | 201         | 224 | L82U6A4000113      | L82U7A4000136 | 24  |

**WARNING**

Follow your internal safety procedures.

## PROCEDURE

- 1.1. Open the air dryer access door and locate the tandem air dryer. See Figure 1.



Figure 1 - Air Dryer Location

- 1.2. Drain all reservoirs and pneumatic hoses.  
1.3. Identify and disconnect the four hoses. See Figure 2.

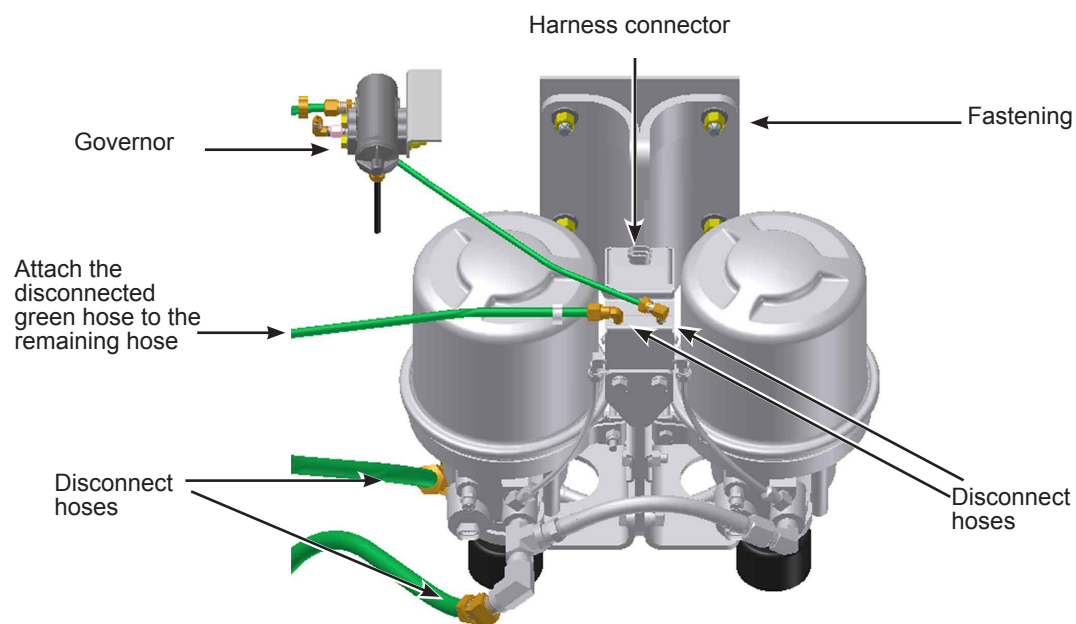


Figure 2 - Air Dryer Assembly

- 1.4. Unplug the vehicle wiring harness from the heater and thermostat assembly connector on the end cover assembly. See Figure 3.

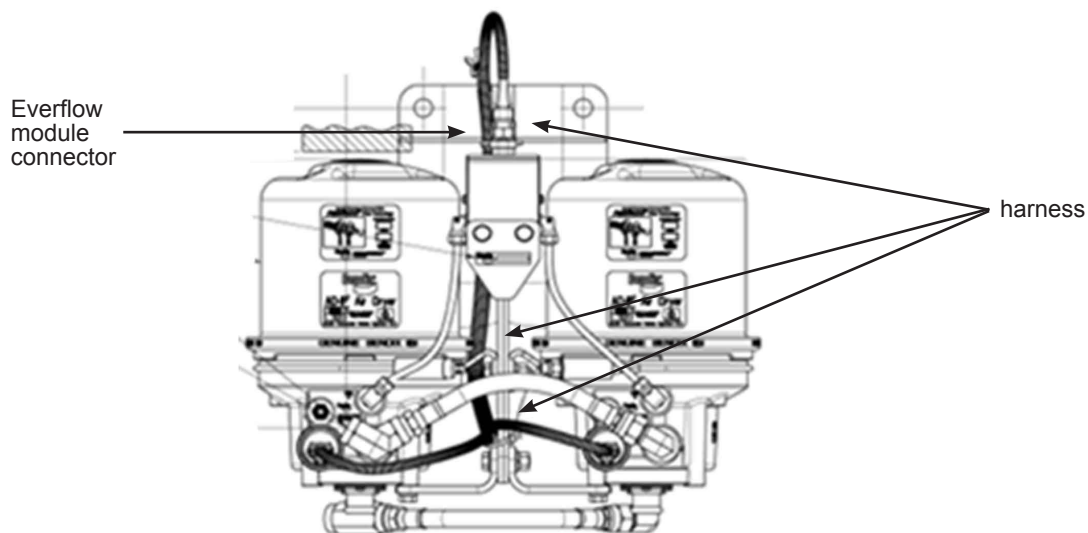


Figure 3 - Air Dryer Harness

- 1.5. Protect the EverFlow module connector from water intrusion and dirt. Discard the connector.  
1.6. Attach the EverFlow connector to the existing harness with tie wraps.  
1.7. Remove the four bolts retaining the tandem air dryer assembly, and retain hardware. See Figure 4.

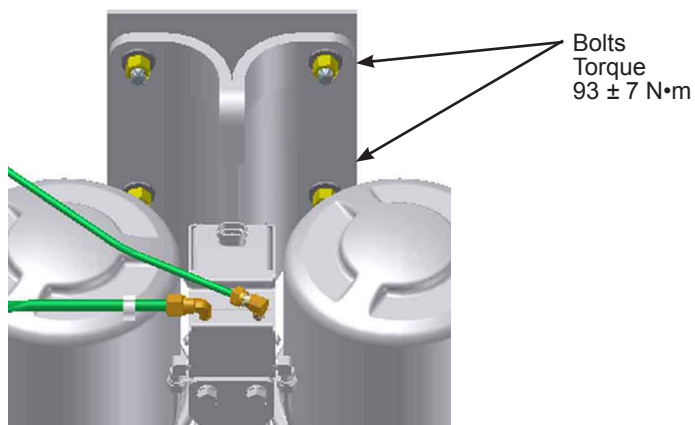


Figure 4 - Existing Tandem Air Dryer Assembly Bolts Location and Torque

- 1.8. Open right baselight #1 and remove hose and cap from reservoir. Attach the disconnected green hose to the remaining hose.

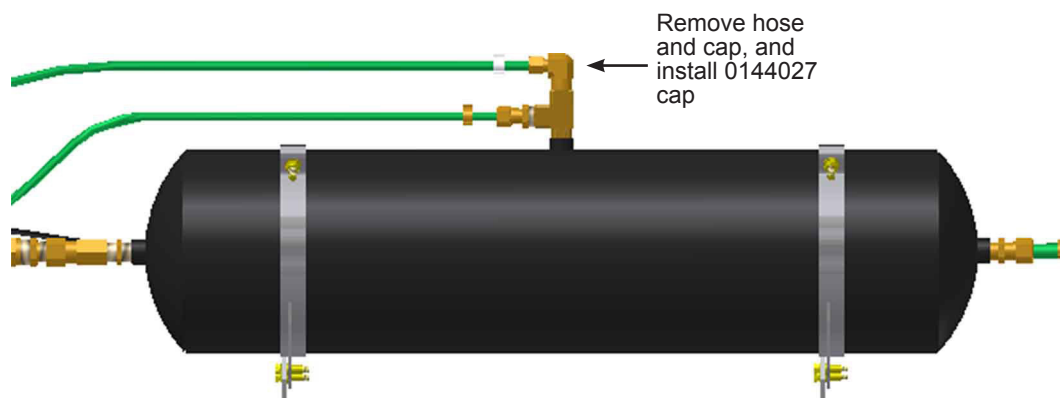


Figure 5 - Primary Reservoir Assembly

- 1.9. Install the 0144027 plug into the connector. See Figure 5.  
1.10. Install the new N8902665 tandem air dryer with the retained hardware.  
1.11. Tighten to the torque specified in Figure 4.  
1.12. Connect the two green hoses. See Figure 6.

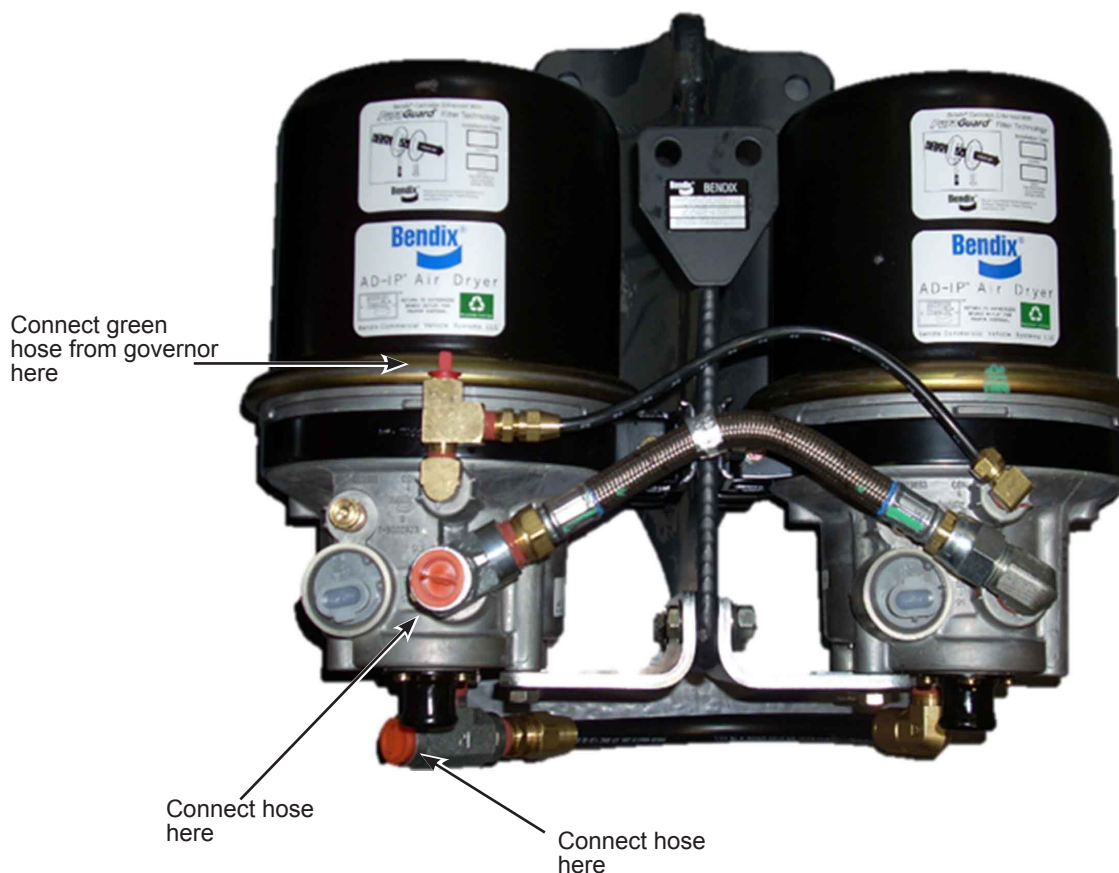


Figure 6 - New Tandem Air Dryer

- 1.13. Connect the green hose from the governor to the tandem air dryer. See Figure 6 .

**Consult the operation of the air supply system section in the manufacturer's manual and section 08-000: Air Supply System in the Nova bus maintenance manual.**

- 1.14. Perform an operation and leakage test.
- 1.15. Start the engine and wait for pressure to build up in the system.
- 1.16. Close the baselight.
- 1.17. Close air dryer access door.
- 1.18. Return vehicle to service. ❖