



**Massachusetts Bay
Transportation Authority**

**MBC Overhaul of 156 Forty-Foot Hybrid Buses
Option Order**

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Overview

MBTA continues to invest in the overhaul of hybrid buses for service needs and to refurbish aging fleets to be more efficient, safe and reliable.

- Vehicle Engineering requests approval to exercise an option in Contact No. 719 with Midwest Bus Corporations (MBC) to overhaul 156 2016/17 New Flyer 40-foot hybrid buses.
- Fleet reliability has diminished and has a negative impact on service.
- Restoring these vehicles will provide renewed availability, reliability, and safety.

- Schedule of the 156 hybrid buses:
 - Board Award 156 40-foot Hybrid Option.....Today
 - 156 Option Vehicle Design Review Activities.....Summer 2025
 - 156 Option Vehicle Deliveries Begin.....Fall 2025
 - 156 Option Vehicle Deliveries Conclude.....Fall 2027





Background

- Contract No. 719 with MBC was executed in June 2022 for the overhaul of Sixty (60) forty-foot New Flyer XDE40 Hybrid buses purchased in 2014-2015, in accordance with specification VE20-051.
- This has been a challenging overhaul with new systems installed and extensive hidden damage. To date, MBC has delivered 38 buses (63% of the fleet) out of the original 60-bus base order fleet.
- For this change order, the Authority is seeking to exercise Option 6 authorizing MBC to overhaul 156 New Flyer hybrid 40-foot buses in accordance with technical specification VE20-051. These 156 buses have a similar configuration to the 60-bus fleet currently being overhauled.
- To accelerate the 156 buses through the overhaul process we have taken advantage of several scope modifications to tailor VE20-051 to this newer fleet configuration.



Overhaul Strategy

- The 2016-2017 New Flyer SR1983 hybrid buses are exhibiting reduced reliability due to age and general deterioration, warranting immediate overhaul to improve fleet reliability, safety and to decrease operating costs. The overhaul will allow this fleet to meet the 12-year FTA service life requirement.
- This overhaul is in line with the annual bus replacement expectations influenced by funding availability and facility upgrades for the integration of Battery Electric Buses (BEB).
- This overhaul will be used to maintain bus availability, until the MBTA system is equipped with the new Battery Electric Buses.
- Failure to overhaul these buses will diminish the Authority's ability to reliably operate this bus fleet throughout its 12-year FTA mandated requirement.



Request of the Board of Directors

The total estimated budget for this project is as follows:

• Overhaul of 156 Hybrids	\$94,054,766.52
• Force account (in-house labor)	\$1,200,000.00
• Project administration and internal capital oversight	\$2,000,000.00
• Professional Services	\$2,690,160.40
• Contingency	\$2,731,230.08
<i>Total Project Budget:</i>	<i>\$102,676,157.00</i>



Request of the Board of Directors

Vehicle Engineering requests that the MBTA Board of Directors authorize the General Manager & CEO, or his designee, to award and execute Option 6 of Formal Contract No. 719 to Midwest Bus Corporation to overhaul and deliver 156 forty-foot hybrid buses for a total delivered amount not to exceed \$94,054,766.52 and to execute any necessary or ancillary documents in the name of and on behalf of the MBTA to effectuate this Agreement.