File No	130977	, -	Committee Item No.	2	
			Board Item No.	34	

COMMITTEE/BOARD OF SUPERVISORS

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Committee:	Budget and Finance Committee	Date: 10/23/2013
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OTHER	(Use back side if additional space is	needed)
	y: Victor Young Date Date	October 18, 2013 /ヘ/レサ//)

[Contract - New Flyer of America Inc. - Purchase of Low Floor Diesel-Hybrid Buses - Not to Exceed \$38,348,847]

Resolution approving a contract with New Flyer of America Inc., for the purchase of 50 40-foot low floor diesel-hybrid buses, related tools, training, and spare parts, through the Cooperative Purchasing Venture established by the State of Minnesota's Materials Management Division, in an amount not to exceed \$38,348,847 for a term not to exceed six years to commence following Board approval.

WHEREAS, Under Section 21.16 of the San Francisco Administrative Code, the San Francisco Municipal Transportation Agency (SFMTA) may utilize the competitive procurement process of any other public agency to make purchases of commodities under the terms established in that agency's procurement process and as agreed upon by the City and the procuring agency, upon making a determination that the other agency's procurement process was competitive and the use of the other agency's procurement process would be in the City's best interests; and

WHEREAS, The State of Minnesota, through its Materials Management Division (MMD), established the Cooperative Purchasing Venture (CPV), and allows eligible entities to purchase goods, certain services and utilities from contracts established by the MMD for Minnesota state agencies; and

WHEREAS, Minnesota statute Section 471.59, subdivision 1, known as the Joint Powers Act, defines the governmental entities that may join the CPV program to include counties, cities, towns, townships, and school districts, and other entities; and

WHEREAS, In 2012, the State of Minnesota issued a competitive request for proposal for 2013 model year transit buses, including heavy duty (Class 700) low floor diesel hybrid coaches, on behalf of the members of the Minnesota CPV (the Minnesota Procurement); the

Supervisor Wiener, Mar BOARD OF SUPERVISORS

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Minnesota Procurement complied with the third party procurement requirements of the Federal Transit Administration; and

WHEREAS, New Flyer of America Inc. was one of several companies that submitted proposals in response to the Minnesota Procurement on December 21, 2012; Minnesota accepted the proposal and issued Notification of Contract Award to New Flyer on or about January 1, 2013; and

WHEREAS, On March 7, 2012, the SFMTA Board of Director adopted Resolution No. 12-029, which authorized the City and County of San Francisco, through the SFMTA, to join the CPV; and

WHEREAS, SFMTA negotiated the contract with New Flyer to manufacture 50 40-foot low floor diesel-hybrid buses, and related tools, training and spare parts for a total cost of \$38,348,847; a copy of the contract is on file with the Clerk of the Board of Supervisors in File No. 130977, and is hereby declared to be a part of this motion as if set forth fully herein; now therefore, be it

RESOLVED, That the Board of Supervisors authorizes the SFMTA to enter into a contract with New Flyer of America Inc. for the purchase of 50 40-foot low floor diesel-hybrid buses, and related tools, training and spare parts, through the Cooperative Purchasing Agreement established by the State of Minnesota's Materials Management Division, in an amount not to exceed \$38,348,847 and for a term not to exceed six years; and, be it

FURTHER RESOLVED, That the Board of Supervisors authorizes the SFMTA to enter into any amendments or modifications to the Agreement (including without limitation, the exhibits) that the Director of Transportation determines, in consultation with the City Attorney, are in the best interests of the City, do not increase the obligations or liabilities of the City, are necessary or advisable to effectuate the purposes of the Agreement or this Resolution, and are in compliance with all applicable laws, including the City's Charter; and, be it

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FURTHER RESOLVED, That within thirty (30) days of the contract being fully executed by all parties, the SFMTA shall provide the final contract to the Clerk of the Board for inclusion into the official file.

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Item 2 File 13-0977

Department:

San Francisco Municipal Transportation Agency (SFMTA)

EXECUTIVE SUMMARY

Legislative Objectives

• The proposed resolution would approve a new agreement between San Francisco Municipal Transportation Agency (SFMTA) and New Flyer of America Inc. (New Flyer) for the purchase of 50 40-foot low-floor diesel hybrid buses, and related tools, training and spare parts. The agreement is for not-to-exceed \$38,348,847 and a term of up to six years.

Key Points

- The Board of Supervisors previously approved an agreement between SFMTA and New Flyer for the purchase of 45 40-foot low-floor diesel hybrid buses in October 2012 and a subsequent amendment to the agreement for an additional 17 buses in December 2012, totaling 62 buses, under a competitive process through the Minnesota Cooperative Purchasing Venture.
- New Flyer has an open slot in their production line and would be able to deliver the 50 new 40-foot low-floor diesel hybrid buses to SFMTA in a timely manner and at a base price of \$689,686, which is below the base price of \$691,941 of the 62 buses previously purchased by SFMTA from New Flyer. SFMTA staff determined that the most cost-effective and expeditious way to procure the 50 new buses would be to contract with New Flyer based on a new competitive process by the Minnesota Cooperative Purchasing Venture.

Fiscal Impact

- The budget for the purchase of 50 40-foot low-floor diesel hybrid buses is \$38,348,847. The agreement budget includes: (1) the cost for 50 new buses; (2) training for staff to drive the new vehicles; (3) tools and diagnostics to maintain the new vehicles; (4) installation of wayside equipment for wireless download of signal priority, video and digital voice annunciation system (DVAS); and (5) an allowance for spare parts.
- SFMTA will incur associated project costs with the agreement, including: (1) an 8.75 percent Sales Tax on the 50 new buses, tools, the signal priority, video and DVAS wayside infrastructure, and spare parts; (2) warranty support; (3) SFMTA and consultant staff to provide project support to acquire and accept the new buses, and (4) Federal Transit Authority required vehicle inspection at the New Flyer plant. These associated costs total \$6,114,893 and the total estimated project costs are \$44,463,740.
- Funds to pay project cost of \$44,463,740 include \$28,467,700 in Federal grants and \$15,996,040 in funds from Proposition K Sales Tax monies.

Policy Consideration

- The Zero Emissions 2020 Plan, approved by the SFMTA Board of Directors, commits the City to a clean air policy for public transit with the establishment of a bus fleet that may include hybrid buses, battery buses, and fuel-cell buses by 2020.
- By January 2014, SFMTA will have a fleet of 198 hybrid buses and plans to buy additional hybrid buses to replace the remaining 279 40-foot diesel buses and 60-foot diesel buses as part of SFMTA's bus procurement strategy. SFMTA will issue a Request for Proposals (RFP) in December 2013 for the purchase of hybrid buses to replace the diesel buses.

Recommendation

Approve the proposed resolution.

MANDATE STATEMENT/BACKGROUND

Mandate Statement

Charter Section 9.118 provides that any agreement (a) for \$10,000,000 or more, (b) that extends more than ten years, or (c) with an amendment of more than \$500,000, is subject to Board of Supervisors approval.

Administrative Code Section 21.16 provides that the San Francisco Municipal Transportation Agency (SFMTA) may utilize the competitive procurement process of any other public agency to make purchases of commodities under the terms established in that agency's procurement process, upon determination that use of the other agency's procurement process would be in the City's best interests.

Background

The Board of Supervisors previously approved an agreement between SFMTA and New Flyer of America, Inc. (New Flyer) for the purchase of 45 40-foot low-floor diesel hybrid buses in October 2012 and a subsequent amendment to the agreement for an additional 17 buses in December 2012, totaling 62 buses. The agreement was for an amount not-to-exceed \$48,669,369, including the purchase price of the buses, and associated tools, spare parts, training, and storage and associated insurance costs. The agreement was for six years through 2018.

SFMTA entered into the agreement with New Flyer subsequent to a competitive process through the Minnesota Cooperative Purchasing Venture, established by the State of Minnesota, pursuant to Administrative Code Section 21.16.

SFMTA received delivery of the 62 buses as of September 2, 2013 and has spent approximately \$44,100,000 of the agreement amount. According to Mr. Elson Hao, SFMTA Principal Engineer, the agreement balance of approximately \$4,570,000 will be spent for spare parts, special tools and training.

SFMTA Five-Year Procurement Strategy

According to an August 27, 2013 memorandum from SFMTA staff to John Haley, SFMTA Director of Transit, outlining SFMTA's five-year bus procurement strategy, SFMTA's current bus fleet includes 323 40-foot buses and 124 articulated 60-foot buses, including conventional diesel engines as well as hybrid engines, totaling 447 buses, which are the number of buses needed to meet SFMTA service levels, including daily service, maintenance, special events, and bus shuttles to provide service when there is a disruption in light rail service.

¹ According to Mr. Elson Hao, SFMTA Principal Engineer, the new agreement for the 50 40-foot low-floor diesel hybrid buses will not include fees for storage and associated insurance costs during storage because the buses will all be manufactured and delivered to SFMTA within a short period of time, precluding the need for storage.

According to the August 27, 2013 memorandum, SFMTA's five-year bus procurement strategy includes the following objectives:

- Replace existing buses within a five-year period to reduce average age of buses and reduce maintenance costs.
- Partner with other agencies where possible to reduce unit costs and create a shared demand for future parts.
- Spread procurements more evenly to ensure that major maintenance investments, such as midlife overhauls, are more evenly spaced, and to reduce the risk of technology obsolescence because buses are delivered in smaller batches.
- Accommodate up to a 10 percent service expansion by early 2015 as recommended in the SFMTA Transit Effectiveness Project (TEP).
- Build in flexibility to accommodate land use related growth and capital projects expected through 2020.

SFMTA's proposed bus replacement and expansion plan is shown in the Attachment² which outlines the purchase year and replacement year for each type of bus, based on Metropolitan Transportation Commission's (MTC) guidelines as shown in Table 1 below.

Metropolitan
Transportation
Commission (MTC)
Vehicle Type
Guidelines

40-foot and 60-foot Bus

Metropolitan
Transportation
(MTC)
Administration
(FTA) Guidelines
12 years
12 years
15 years

Table 1. Useful Life Guidelines of the SFMTA Bus Fleet

Source: SFMTA Five-Year Bus Procurement Strategy (August 27, 2013 SFMTA memorandum)

SFMTA plans to replace or expand their fleet of 40-foot buses over the seven-year period from 2013 through 2019, including the 62 replacement and expansion buses previously purchased from New Flyer through the Minnesota Cooperative Purchasing Venture in 2013, and 50 replacement buses proposed for purchase from New Flyer through the Minnesota Cooperative Purchasing Venture in 2014, totaling 112 buses.

SFMTA plans to issue a new competitive Request for Proposals (RFP) in December 2013 and enter into a new agreement for the procurement of 40-foot hybrid buses and articulated 60-foot hybrid buses between 2015 and 2019.³

² The Attachment, which was included as an appendix to SFMTA's August 27, 2013 memorandum, shows 324 40-foot buses ("motor coach") in 2013 but the actual number is 323.

³ SFMTA purchased or plans to purchase 112 standard 40-foot buses in 2013 and 2014, and 200 standard 40-foot buses from 2015 through 2019, totaling 312 buses, offset by the reduction of 25 buses, for a net of 287 replacement and expansion buses. SFMTA plans to purchase 224 replacement and expansion articulated 60-foot buses by 2019.

DETAILS OF PROPOSED LEGISLATION

The proposed resolution would approve a new agreement between SFMTA and New Flyer for the purchase of 50 40-foot low-floor diesel hybrid buses, and related tools, training and spare parts. The agreement is for an amount not-to-exceed \$38,348,847 and for a term not-to-exceed six years.

SFMTA selected New Flyer through its membership in the Minnesota Cooperative Purchasing Venture, based on a new competitive process conducted by the State of Minnesota for 2013, which conformed to the requirements established by the Federal Transportation Administration. According to SFMTA, purchasing the buses through the Minnesota Cooperative Purchasing Cooperative reduces SFTMA's time for procurement by approximately nine months. The SFMTA Board of Directors approved the award of the new agreement to New Flyer on October 15, 2013.

According to Mr. Haley, the 50 new 40-foot low-floor diesel hybrid buses will have the same features as the 62 buses previously purchased by SFMTA from New Flyer. New Flyer has advised SFMTA that there is an open slot in New Flyer's production line, and would be able to deliver the 50 new buses in a timely manner and at a base price of \$689,686, which is below the base price of \$691,941 of the 62 buses previously purchased by SFMTA from New Flyer.

FISCAL IMPACT

As shown in Table 3 below, the budget for the proposed agreement with New Flyer is \$38,348,847. This amount includes: (1) the cost for 50 new 40-foot low-floor diesel hybrid buses; (2) training for staff to drive the new vehicles; (3) tools and diagnostics to maintain the new vehicles; (4) installation of wayside equipment for wireless download of signal priority, video and digital voice annunciation system (DVAS); and (5) an allowance for spare parts.

Table 3: Itemized Costs of New Flyer Agreement

Item	Total Cost
50 New 40-foot Low-Floor Diesel Hybrid Buses	
(\$689,686.32 per 50 buses)	\$34,484,316
Other Agreement Costs	
Training	76,998
Tools and Diagnostics	130,015
Signal Priority, Video and DVAS Wayside Infrastructure	1,357,518
Allowance for Spare Parts	2,300,000
Subtotal for Other Agreement Costs	\$3,864,531
Agreement Total	\$38,348,847

SFMTA will incur other associated project costs under the agreement, including: (1) an 8.75 percent Sales Tax on the new buses, tools, signal priority, video and DVAS wayside infrastructure, and spare parts; (2) warranty support; (3) SFMTA and consultant staff to provide

project support to acquire and implement the new buses, and (4) Federal Transit Administration required vehicle inspection at the New Flyer plant. As shown in Table 4 below, with associated costs of \$6,114,893 the total estimated project costs are \$44,463,740.

Table 4: Associated Project Costs for the New Flyer Agreement

Item	Cost
Tax (8.75%)	\$3,348,787
Warranty support	230,000
Project support (SFMTA staff, ODC)	1,936,106
Vehicle Inspection at Plant (FTA Required)	600,000
Subtotal Other Associated Costs	\$6,114,893
Agreement Total (see Table 3 above)	\$38,348,847
Total Estimated Project Costs Including Agreement Total & Associated	
Costs	\$44,463,740

As shown in Table 5 below, the SFMTA has identified the needed funding sources of \$44,463,740 to pay for this project.

Table 5: Funding Sources for Proposed Purchase

Fund Source	Amount
Federal 5307 Grant ⁴	\$28,467,700
Proposition K Sales Tax ⁵	15,996,040
Total	\$44,463,740

POLICY CONSIDERATION

The SFMTA's Zero Emissions 2020 Plan

The Zero Emissions 2020 Plan, approved by the SFMTA Board of Directors, commits the City to a clean air policy for public transit with the establishment of a low-emissions bus fleet that may include hybrid buses, battery buses, and fuel-cell buses by 2020. In coordination with the SFMTA and the San Francisco Department of Environment, the Zero Emissions 2020 Plan focuses on the purchase of cleaner transit buses including hybrid diesel-electric buses, which (1) emit 95 percent less particle matter (PM, or soot) than the diesel buses replaced, (2) produce 40 percent less oxides of nitrogen, and (3) reduce greenhouse gases by 30 percent. The plan also discusses purchasing and upgrading to hydrogen fuel cell buses when they become commercially available for large fleet purchases.

⁴ U.S. Department of Transportation, Federal Transit Administration (FTA), Urbanized Area Formula Program (Section 5307) is a formula grant program for urbanized areas providing capital, operating, and planning assistance for mass transportation.

⁵ Proposition K was passed by San Francisco voters in November 2003, allowing the half-cent transportation sales tax to be allocated to the Prop K Expenditure Plan. The Expenditure Plan does not provide guidance as to the allocation of those revenues over the 30-year period, but instead only stipulates eligible programs.

According to Mr. Hao, by January 2014, SFMTA will have a fleet of 1,051 vehicles, of which 168 will be 40-foot hybrid buses, as shown in Table 6 below.

Table 6: Planned SFMTA Muni Vehicle Fleet by January 2014

Type of Vehicle	Vehicle Count
Hybrid Buses	
30-foot Hybrid Buses	30
40-foot Hybrid Buses	168
Subtotal Hybrid Buses	198
Diesel Buses	
40-foot Buses	155
60-foot Buses	124
Subtotal Diesel Buses	279
Electric Trolley Buses	333
Metro Streetcars	151
Historic and President's Conference Committee Streetcars ⁶	50
Cable Cars	40
Subtotal Other Vehicles	574
Total Vehicles	1,051

Additionally, SFMTA plans to buy additional hybrid buses to replace the remaining 279 diesel buses of its 40-ft and 60-ft diesel bus fleet as part of SFMTA's bus procurement strategy discussed above and will be part of the planned new December 2013 RFP for the procurement of 40-foot hybrid buses and articulated 60-foot hybrid buses.

RECOMMENDATION

Approve the proposed resolution.

⁶ Restored historic rail vehicles used on the F-Line along Market Street and the Embarcadero.

Appendix A: Proposed Vehicle Replacement and Expansion Plan 2013-2022

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Agreement between

the City and County of San Francisco

and

New Flyer of America Inc.

for the Procurement of 50 Heavy Duty Low Floor Diesel Hybrid Coaches

through the Minnesota Cooperative Purchasing Venture

CON No. TBD
Minnesota Contract No. 56191

This Agreement is made this	day of	, 2013, in the City and County
of San Francisco, State of California, by and	between:	New Flyer of America Inc., a North
Dakota corporation, 711 Kernaghan Avenue,	, Winnipe	g, Manitoba, Canada R2C 3T4 (Contractor
or New Flyer), and the City and County of Sa	an Francis	sco, a municipal corporation (City), acting
by and through its San Francisco Municipal	Transporta	ation Agency (SFMTA).

Recitals

- A. On or about October 5, 2012, the State of Minnesota (Minnesota) issued a request for proposal (RFP) for 2013-14 Model Year transit buses, including heavy duty (Class 700) low floor diesel hybrid coaches (Buses), on behalf of the members of the Minnesota Cooperative Purchasing Venture (CPV) (the Minnesota Procurement). The Minnesota Procurement contained the third party procurement provisions required by the Federal Transit Administration.
- B. New Flyer submitted a proposal in response to the Minnesota Procurement that was opened on November 14, 2012. On or about December 21, 2012, Minnesota accepted the proposal and issued Notification of Contract Award to New Flyer, effective on January 1, 2013.
- C. On or about March 7, 2012, the SFMTA entered into an agreement with Minnesota to become a member of the CPV.
- D. Under the authority of Administrative Code Section 21.16, SFMTA now wishes to acquire 50 Buses from New Flyer under the terms and conditions contained in the Minnesota Procurement, as amended by the provisions of this Agreement.
- E. CITY has requested various specification changes for the buses, and has negotiated with Contractor price increases for these items, as appropriate. Contractor has also agreed to additional terms and conditions as consideration for this Agreement.
- 1. Minnesota Procurement Terms and Conditions; Priority of Documents. The terms and conditions of the Minnesota Procurement, including the Notification of Contract Award, accepted December 21, 2012, and the Contract Release, dated February 18, 2013. are

incorporated by reference as though fully set forth. Generally, any obligation of or accruing to Minnesota, shall be deemed to be an obligation of, or accruing to. City. However, the following terms and conditions, which arise from Minnesota state or local law and are applicable solely to Minnesota and Minnesota agencies are not incorporated: Sections 7, 14, 15, 16, 18, 19, 22, 24, 25, 33, 47, 49, 52, 54, 56, 57, 58, 59, 60, 62 and 74. In all other terms and conditions, references to "State" shall refer to "California" if the reference is to state law, or to "City," if the reference is to actions of Minnesota as a contracting agency. Further, references to the Department of Administration's Materials Management Division or Communication Office shall refer to the SFMTA, and references to an employee or official of that agency shall refer to the SFMTA project manager. The following documents, in order of preference, constitute the entire Contract between Contractor and the City:

- This Agreement and any subsequent amendments to the Agreement.
- The Minnesota Notification of Contract Award
- The Minnesota Procurement and Contract Release.
- The Contractor's Proposal to Minnesota, including all deviations to the Technical Specifications.

In the event of any conflict in language among the above documents the terms and conditions of this Agreement and any later executed documents shall prevail over conflicting terms and conditions contained in the earlier documents, in their original form or as amended.

2. Agreement. Under this Agreement, Contractor agrees to sell, and the City agrees to purchase, 50 new Standard Low Floor Hybrid Diesel Buses, associated spare parts, and training as itemized in Exhibits A, A-1, A-2 and B, according to the terms and conditions set forth in this Agreement. Exhibit B sets forth the changes from the Contractor's Proposal to Minnesota and the respective price differentials of those changes.

3. Insurance (superseding Section 14 and Appendix 2 of the Minnesota Procurement)

- 3.1. The Contractor shall maintain, at its own expense, throughout the term of this Agreement, insurance as follows:
- (a) Workers' Compensation, including Employers' Liability coverage, with limits not less than \$1,000,000 each accident, or as required by law in the jurisdiction in which the work is performed.
- (b) Comprehensive or Commercial General Liability insurance with limits not less than \$5,000,000 each occurrence combined single limit of Bodily Injury and Property Damage, including coverage's for Contractual Liability, Independent Contractor, Broad-form Property Damage, Products and Completed Operations.
- (c) Comprehensive or Business Automobile (Transit Coach, Truck, and other vehicles included) Liability Insurance, with limits not less than \$5,000,000 each occurrence combined single limit for Bodily Injury and Property Damage, including coverage's for owned, non-owned, and hired vehicles, as applicable.
- (d) During the course of this Agreement, should any vehicles already accepted by City and in which title is vested in the City, be returned to Contractor for any reason, Contractor shall maintain, with respect to such vehicles, Garagekeepers' Legal Liability Insurance with limits not less than 100 percent of the value of City vehicles and equipment in Contractor's care, custody,

or control, including coverage's for fire, theft, riot and civil commotion, vandalism or malicious mischief, and collision; all-risk transportation insurance for the full value of all City-owned coaches in transit between Contractor and City premises; and any loss payable to the City as its interest may appear.

- Comprehensive or Commercial General Liability and Comprehensive or Business Automobile policies shall be endorsed to provide the following:
- (a) Name as Additional insured's the City and County of San Francisco, its Officers, Agents, Employees and Members of the Commissions;
- (b) That such policies are primary to any other insurance available to the Additional Insured's, with respect to any claims arising out of this Agreement, and that such insurance applies separately to each insured against whom claim is made or suit is brought and that such coverage shall not exceed policy limits.
 - All policies shall be endorsed to provide: Thirty (30) days advance written notice to City will be provided if coverage is materially reduced or altered, and mailed to the following address:

City and County of San Francisco Gary Chang, P.E. Project Manager Contract No. SFMTA-2013-08 Fleet Engineering Section 700 Pennsylvania Ave. San Francisco, CA 94107

Before commencement of the term of this Contract, certificates of insurance, and copies of additional insurance endorsements, in form and with insurers acceptable to City, evidencing all required insurance, shall be furnished with complete copies of policies to City promptly upon request.

- Should any of the required insurance be provided under a claims-made form, the Contractor shall maintain such coverage continuously throughout the term of this Contract and, without lapse, for a period of three years beyond the Contract expiration, to the effect that, should occurrences during the contract term give rise to claims made after expiration of the Contract, such claims shall be covered by such claims-made policies.
- Should any of the required insurance be provided under a form of coverage that includes a general annual aggregate limit or provides that claims investigation or legal defense costs be included in such general annual aggregate limit, such general annual aggregate limit shall be double the occurrence limits specified above.
- Should any required insurance lapse during the contract term, requests for payments originating after such lapse shall not be processed until the City receives satisfactory evidence of reinstated coverage as required by this Contract, effective as of the lapse date. If insurance is not reinstated, the City may, at its sole option, terminate this Agreement effective on the date of such lapse of insurance.

Bonds

The Contractor shall maintain at its own expense, and furnish to City, corporate surety bonds, as follows: n: pie as2013 1000419 00860023.doe

- (a) Performance Bond. Within 20 days following the receipt of a notice of tentative award of contract, the Contractor shall furnish to City a performance bond in the amount of 20 percent of the total contract amount, to guarantee Contractor's faithful performance of all obligations of the contract. Upon delivery and acceptance by the City of 50 percent of the original contracted number of vehicles, the amount of the performance bond may be reduced to 65 percent of the original bond amount. Upon delivery and acceptance by the City of 75 percent of the original contracted number of vehicles, the amount of the performance bond may be reduced to 30 percent of the original bond amount. If the Contractor requests any further reduction in the amount of the performance bond, the request shall be subject to approval by SFMTA and the City's Risk Manager. One year after the City fully accepts the last bus, the City will release the obligations of the surety under the performance bond, provided that all contract deliverables have been performed and accepted and, if the City has so elected, a warranty bond meeting the requirements of Subsection 4.1(b) is in place. The original bond document(s) shall be retained by the City.
- (b) Warranty Bond; Extension Option. Contractor shall provide a two-year warranty or guaranty bond in the amount of 10 percent of the Contract price covering all of Contractor's warranty obligations under the Contract, which bond shall become effective upon release of the Performance Bond required under Subsection 4.1(a) above. At the end of the first year of warranty coverage, the Contractor may request a reduction of coverage, which may be approved at the discretion of SFMTA and the City's Risk Manager. Additionally, at City's election, and subject to approval of the surety issuing the bond, Contractor shall provide for up to two one-year extensions or renewals of the warranty or guaranty bond at an amount approved by SFMTA and the City's Risk Manager. If the original surety declines to extend or renew the initial bond, Contractor shall in good faith try to obtain the required additional coverage from another surety and shall document to the City its efforts in this regard.
 - **4.2.** The corporate surety on these bonds must be legally authorized to engage in the business of furnishing surety bonds in the State of California. All sureties, bond coverage forms, and requests for changes to the bonding requirements must be approved by the City's Risk Manager.
 - 4.3. During the period covered by the Contract, if the surety on these bonds shall, in the opinion of the City's Risk Manager, become insolvent or unable to pay promptly the amount of such bonds to the extent to which surety might be liable, the Contractor, within 30 days after notice given by the City to the Contractor, shall by supplemental bonds or otherwise substitute another and sufficient surety approved by the Risk Manager in place of the surety becoming insolvent or unable to pay. If the Contractor fails within such 30 day period to substitute another and sufficient surety, the Contractor shall, if the City so elects, be deemed to be in default in the performance of its obligations hereunder, and the City, in addition to any and all other remedies, may terminate the Contract or bring any proper suit or proceeding against the Contractor and the surety, or may deduct from any monies then due or which thereafter may become due to Contractor under the Contract the amount for which the surety, insolvent or unable to pay as aforesaid, is obligated on the bonds, and the monies so deducted shall be held by the City as collateral security for the performance of the conditions of the bonds.
 - 4.4. In lieu of a surety bond as required above, Contractor may elect to furnish the City with a letter of credit in conformance with the requirements of Section 5.

5. Letter of Credit

5.1. Any and all letters of credit issued pursuant to this Agreement shall be obtained from a national or California bank with at least a Moody's A rating and having at least one branch office within the City and County of San Francisco. The letter of credit shall be a confirmed, clean irrevocable letter of credit in favor of the City and County of San Francisco, a

municipal corporation. The letter of credit shall have an original term of one year, with automatic extensions of the principal amount throughout the term of the contract, or until released by the City. The letter of credit shall provide that payment of the entire face amount of the letter of credit, or any portion thereof, shall be made to the City and County of San Francisco, upon presentation of a written demand to the bank signed by the General Manager on behalf of the City and County of San Francisco. The letter of credit shall constitute a security deposit guaranteeing all progress payments for which the letter of credit is issued.

- 5.2. If Contractor defaults with respect to any provision of this Agreement, City may, but shall not be required to, make its demand under the letter of credit for all or any portion thereof to compensate City for any loss of progress payments, which City may have incurred by reason of Contractor's default. City shall present its written demand to the bank for payment under the letter of credit only after City shall have made its demand for payment directly to Contractor, and five full business days have elapsed without Contractor having made payment to City or otherwise cured the default. City need not terminate this Agreement in order to receive compensation for its damages. If any portion of a letter of credit is so used or applied, Contractor, within 10 business days after written demand therefore, shall reinstate the letter of credit to its original amount; Contractor's failure to do so shall be a material breach of this Agreement.
- **5.3.** Any letter of credit issued hereunder shall provide for 60 days notice by the bank to City in the event of non-extension of the letter of credit; in that event, Contractor shall replace the letter of credit at least 10 business days prior to its expiration. If Contractor fails to do so, City shall be entitled to present its written demand for payment of the entire face amount of the letter of credit. Any amounts so received by City shall be returned to Contractor upon replacement of the letter of credit.
- 5.4. If City receives any payments from the aforementioned bank under the letter of credit by reason of having made a wrongful or excessive demand for payment, City shall return to Contractor the amount by which City's total receipts from Contractor and from the bank under the letter of credit exceeds the amount to which City rightfully is entitled, together with interest thereon at the legal rate of interest, but City shall not otherwise be liable to Contractor for any damages or penalties.

6. Compensation; Payment

- 6.1. Amount. The City agrees to pay an amount not to exceed Thirty-Eight Million, Three Hundred Forty-Eight Thousand, Eight Hundred Forty-Seven Dollars (\$38,348,847) (Total Contract Amount), as summarized in Exhibit A (Price Schedule), and in accordance with the terms and conditions of this Agreement. The parties will amend this Agreement to include a final list of spare parts to be supplied under the Agreement. City may withhold payment to Contractor in any instance in which Contractor has failed or refused to satisfy any material obligation provided for under this Agreement and has not remedied such default within a reasonable period of time. In no event shall City be liable for interest or late charges for any late payments.
 - **6.2.** Invoices. Contractor shall submit its invoices to the following address:

San Francisco Municipal Transportation Agency
Fleet Engineering Section
Attn: Gary Chang. P.E.
Project Manager
700 Pennsylvania Avenue
San Francisco, CA 94107

Each invoice shall include:

- Relevant milestones
- Contract order number:
- Quantity of items;
- Description of items;
- Unit price;
- Total invoice amount:
- Sales Tax (separately itemized)

6.3. Payment Terms.

- (a) All payments shall be made as provided herein, less a retention of 2%.
- (b) Subject to the provisions of Section 11.1, the City will make payments for buses at 98 percent of the unit price for each bus as itemized in the Price Schedule within 30 calendar days after acceptance of each bus and receipt of a proper invoice.
- (c) The City will make payments for spare parts within 30 calendar days after completion of delivery of, and receipt of a proper invoice for, each lot of spare parts, as provided in Section 9.3.
- (d) The City will make payments for special tools within 30 days after delivery and receipt of a proper invoice for each delivery of special tools.
- (e) The City will make an advance payment for the Cummins engines no later than December 1, 2012, subject to receipt of FTA approval.
- (f) The City will make a final payment for all retained funds within 60 calendar days after receipt of a final proper invoice and completion of all of the following:
 - (i) Delivery and acceptance of all Contract deliverables, including spare parts, special tools, manuals and other documentation, but not including training.
 - (ii) Receipt from Contractor of all certifications as required by law and/or regulations.
 - (iii) Completion of post-delivery audits required under the Contract.

7. Budget And Fiscal Provisions; Termination In The Event Of Non-Appropriation

This Agreement is subject to the budget and fiscal provisions of the City's Charter. Charges will accrue only after prior written authorization certified by the Controller, and the amount of City's obligation hereunder shall not at any time exceed the amount certified for the purpose and period stated in such advance authorization. This Agreement will terminate without penalty, liability or expense of any kind to City at the end of any fiscal year if funds are not

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appropriated for the next succeeding fiscal year. If funds are appropriated for a portion of the fiscal year, this Agreement will terminate, without penalty, liability or expense of any kind at the end of the term for which funds are appropriated. City has no obligation to make appropriations for this Agreement in lieu of appropriations for new or other agreements. City budget decisions are subject to the discretion of the Mayor and the Board of Supervisors. Contractor's assumption of risk of possible non-appropriation is part of the consideration for this Agreement.

THIS SECTION CONTROLS AGAINST ANY AND ALL OTHER PROVISIONS OF THE AGREEMENT.

8. Miscellaneous Provisions

- 8.1. City Business Tax. The San Francisco Business Tax Ordinance requires that firms located in San Francisco or doing business in San Francisco, except for non-profit and tax-exempt businesses, have a current Business Tax Registration Certificate. Contractor shall maintain said Certificate throughout the term of this Contract and pay timely any and all business taxes due to the City.
- 8.2. Disputes. For any dispute involving a question of fact that does not involve a claim for additional compensation, the aggrieved party shall furnish the other party with a notice of dispute within 15 business days of the determination of the dispute. The party receiving a notice of dispute shall submit a written reply within 14 business days of delivery of the notice. The notice and response shall contain the following: (a) a statement of the party's position and a summary of the arguments supporting that position, and (b) any evidence supporting the party's position.

Disputes arising in the performance of this Agreement which are not resolved by negotiation between the parties shall be decided in writing by the City's Project Manager. The Project Manager's decision shall be administratively final and conclusive unless within 10 days from the date of such decision, the Contractor mails or otherwise furnishes a written appeal to the Director of Transit, or his/her designee. In connection with such an appeal, the Contractor shall be afforded an opportunity to be heard and to offer evidence in support of its position in order that a fair and impartial decision can be made by the Director. The decision of the Director shall be administratively final and conclusive; except if such decision is arbitrary, capricious or so erroneous as to evidence bad faith.

Pending final resolution of a properly filed dispute hereunder, the Contractor shall proceed diligently with the performance of its obligations under the Agreement in accordance with the written directions of the City's Project Manager.

Subject to exhaustion of applicable administrative remedies under this Disputes section, the parties may seek to have their disputes resolved by any court of competent jurisdiction within San Francisco. If agreed to by both parties, disputes may be resolved by a mutually agreed to alternative dispute resolution process.

8.3. Sunshine Ordinance. In accordance with S.F. Administrative Code Section 67.24(e), contractors' bids, responses to RFPs and all other records of communications between the City and persons or firms seeking contracts shall be open to inspection immediately after a contract has been awarded. Nothing in this provision requires the disclosure of a private person's or organizations net worth or other proprietary financial data submitted for qualification for a contract or other benefits until and unless that person or organization is awarded the contract or benefit. Information provided which is covered by this paragraph will be made available to the public upon request.

8.4. Nondiscrimination; Penalties

- (a) Contractor Shall Not Discriminate. In the performance of this Agreement, Contractor agrees not to discriminate on the basis of the fact or perception of a person's race, color, creed, religion, national origin, ancestry, age, sex, sexual orientation, gender identity, domestic partner status, marital status, disability or Acquired Immune Deficiency Syndrome or HIV status (AIDS/HIV status) against any employee of, any City employee working with, or applicant for employment with Contractor, in any of Contractor's operations within the United States, or against any person seeking accommodations, advantages, facilities, privileges, services, or membership in all business, social, or other establishments or organizations operated by Contractor.
- (b) Non-Discrimination in Benefits. Contractor does not as of the date of this Agreement and will not during the terms of this Agreement, in any of its operations in San Francisco or where the work is being performed for the City or elsewhere within the United States, discriminate in the provision of bereavement leave, family medical leave, health benefits, membership or membership discounts, moving expenses, pension and retirement benefits or travel benefits, as well as any benefits other than the benefits specified above, between employees with domestic partners and employees with spouses and/or between the domestic partners and spouses of such employees, where the domestic partnership has been registered with a governmental entity pursuant to state or local law authorizing such registration, subject to the conditions set forth in section 1, 4-B. of Appendix D for 12B Provisions, 12B.2(b) of the San Francisco Administrative Code.
- (c) Incorporation of Administrative Code Provisions by Reference. The provisions of Chapters 12B of the San Francisco Administrative Code are incorporated in this Section by reference and made a part of this Agreement as through fully set forth herein. Contractor shall comply fully with and be bound by all of the provisions that apply to this Agreement under such Chapters of the Administrative Code, including but not limited to the remedies provided in such Chapters. Without limiting the foregoing, Contractor understands that pursuant to Section 12B.2(h) (see Appendix D) of the San Francisco Administrative Code, a penalty of \$50 for each person for each calendar day during which such person was discriminated against in violation of the provisions of this Agreement may be assessed against Contractor and/or deducted from any payments due Contractor.
 - **8.5.** Conflict of Interest. Through its execution of this Agreement, Contractor acknowledges that it is familiar with the provision of Section 15.103 of the City's Charter, Article III, Chapter 2 of City's Campaign and Governmental Conduct Code, and Section 87100 et seq. and Section 1090 et seq. of the Government Code of the State of California, and certifies that it does not know of any facts which constitutes a violation of said provisions and agrees that it will immediately notify the City if it becomes aware of any such fact during the term of this Agreement.
 - 8.6. False Claims. Pursuant to San Francisco Administrative Code sections 6.80 to 6.83 and section 21.35, any contractor or subcontractor who submits a false claim shall be liable to the City for three times the amount of damages which the City sustains because of the false claim. A contractor or subcontractor who submits a false claim shall also be liable to the City for the costs, including attorneys' fees, of a civil action brought to recover any of those penalties or damages, and may be liable to the City for a civil penalty of up to \$10,000 for each false claim. A contractor or subcontractor will be deemed to have submitted a false claim to the City if the contractor or subcontractor: (a) knowingly presents or causes to be presented to an officer or employee of the City a false claim or request for payment or approval; (b) knowingly makes, uses, or causes to be made or used a false record or statement to get a false claim allowed or paid by the City; (c)conspires to defraud the City by getting a false claim allowed or paid by the City; (d)knowingly makes, uses, or causes to be made or used a false record or statement to

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conceal, avoid, or decrease an obligation to pay or transmit money or property to the City; or (e) is a beneficiary of an inadvertent submission of a false claim to the City, subsequently discovers the falsity of the claim, and fails to disclose the false claim to the City within a reasonable time after discovery of the false claim.

- 8.7. Disallowance. If Contractor claims or receives payment from City for a service, reimbursement for which is later disallowed by the State of California or United States Government, Contractor shall promptly refund the disallowed amount to City upon City's request. At its option, City may offset the amount disallowed from any payment due or to become due to Contractor under this Agreement or any other Agreement.
- **8.8.** Agreement Made in California; Venue. The formation, interpretation and performance of this Agreement shall be governed by the laws of the State of California. Venue for all litigation relative to the formation, interpretation and performance of this Agreement shall be in San Francisco.
- **8.9.** Non-Waiver of Rights The omission by either party at any time to enforce any default or right reserved to it, or to require performance of any of the terms, covenants, or provisions hereof by the other party at the time designated, shall not be a waiver of any such default or right to which the party is entitled, nor shall it in any way affect the right of the party to enforce such provisions thereafter.

8.10. Independent Contractor; Payment of Taxes and Other Expenses

(a) Independent Contractor. Contractor or any agent or employee of Contractor shall be deemed at all times to be an independent contractor and is wholly responsible for the manner in which it performs the services and work requested by City under this Agreement. Contractor or any agent or employee of Contractor shall not have employee status with City, nor be entitled to participate in any plans, arrangements, or distributions by City pertaining to or in connection with any retirement, health or other benefits that City may offer its employees. Contractor or any agent or employee of Contractor is liable for the acts and omissions of itself, its employees and its agents. Contractor shall be responsible for all obligations and payments, whether imposed by federal, state or local law, including, but not limited to, FICA, income tax withholdings, unemployment compensation, insurance, and other similar responsibilities related to Contractor's performing services and work, or any agent or employee of Contractor providing same. Nothing in this Agreement shall be construed as creating an employment or agency relationship between City and Contractor or any agent or employee of Contractor.

Any terms in this Agreement referring to direction from City shall be construed as providing for direction as to policy and the result of Contractor's work only, and not as to the means by which such a result is obtained. City does not retain the right to control the means or the method by which Contractor performs work under this Agreement.

(b) Payment of Taxes and Other Expenses. Should City, in its discretion, or a relevant taxing authority such as the Internal Revenue Service or the State Employment Development Division, or both, determine that Contractor is an employee for purposes of collection of any employment taxes, the amounts payable under this Agreement shall be reduced by amounts equal to both the employee and employer portions of the tax due (and offsetting any credits for amounts already paid by Contractor which can be applied against this liability). City shall then forward those amounts to the relevant taxing authority. Should a relevant taxing authority determine a liability for past services performed by Contractor for City, upon notification of such fact by City, Contractor shall promptly remit such amount due or arrange with City to have the amount due withheld from future payments to Contractor under this Agreement (again, offsetting any amounts already paid by Contractor which can be applied as a credit against such liability).

A determination of employment status pursuant to the preceding two paragraphs shall be solely for the purposes of the particular tax in question, and for all other purposes of this Agreement. Contractor shall not be considered an employee of City. Notwithstanding the foregoing, should any court, arbitrator, or administrative authority determine that Contractor is an employee for any other purpose, then Contractor agrees to a reduction in City's financial liability so that City's total expenses under this Agreement are not greater than they would have been had the court, arbitrator, or administrative authority determined that Contractor was not an employee.

- 8.11. Time. Time is of the essence in this Agreement.
- **8.12.** Compliance with Laws. Consultant shall keep itself fully informed of the City's Charter, codes, ordinances and regulations of the City and of all state, and federal laws in any manner affecting the performance of this Agreement, and must at all times comply with such local codes, ordinances, and regulations and all applicable laws as they may be amended from time to time.
- 8.13. Intellectual Property Indemnification (superseding Section 59 of the Minnesota Procurement). Contractor shall indemnify and hold City harmless from all loss and liability, including attorneys' fees, court costs and all other litigation expenses for any infringement of the patent rights, copyright, trade secret or any other proprietary right or trademark, and all other intellectual property claims of any person or persons in consequence of the use by City, or any of its officers or agents, of articles or services to be supplied in the performance of this Agreement.
- 8.14. Proprietary or Confidential Information of City. Contractor understands and agrees that, in the performance of the work or services under this Agreement or in contemplation thereof, Contractor may have access to private or confidential information, which may be owned or controlled by City, and that such information may contain proprietary or confidential details, the disclosure of which to third parties may be damaging to City. Contractor agrees that all information disclosed by City to Contractor shall be held in confidence and used only in performance of the Agreement. Contractor shall exercise the same standard of care to protect such information as a reasonably prudent contractor would use to protect its own proprietary data.

9. Delivery Schedule

- 9.1. General. Contractor shall comply with the Delivery Schedule attached as Exhibit C.
- 9.2. Coach Delivery Procedure. Delivery shall be determined by signed receipt of the SFMTA Project Manager Representative at the point of delivery and may be preceded by a cursory inspection of the coach. Delivery of the coaches shall be F.O.B. point of delivery, freight pre-paid and allowed. Contractor shall ensure that all coaches are fully operable when they are delivered. The point of delivery shall be:

Standard Hybrid-Electric Diesel Coaches

SFMTA

Woods Maintenance Facility 1095 Indiana Street San Francisco, California 94107

Drivers shall keep a complete and accurate maintenance log en route, which shall be delivered to the SFMTA Project Manager with the coach. The log shall show the driver's compliance with the tire manufacturer's highway operating procedures. If the coaches are towed,

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the rear axle shafts shall be removed during the towing and re-coupled by the Contractor after arrival at the point of delivery. Contractor shall deliver each coach with a full tank of fuel and fully cleaned (exterior, interior, underside, and topside) prior to presentation for inspection. If the coaches are towed from the Contractor's facility to SFMTA, highway-type tires shall be installed. Upon arrival at the SFMTA maintenance facility or within San Francisco, Contractor, at its expense, shall install city-type tires.

- 9.3. Spare Parts Delivery Procedure. Contractor shall divide delivery of spare parts into two lots, and a manifest shall accompany each delivery. Lot 1 shall be approximately 50 percent of the quantity of spare parts finally agreed to by the parties. Lot 2 shall be the remaining quantity of spare parts. At the SFMTA's option, the lots may be split into more than two deliveries. Delivery shall be determined by signed receipt of the SFMTA Project Manager at the point of delivery and may be preceded by a cursory inspection of the parts. Within 20 business days of delivery, City will notify Contractor whether there are any problems related to the delivery. The point of delivery shall be as stated above in Section 9.2, or as otherwise provided in writing by SFMTA. Delivery of spare parts shall be F.O.B. point of delivery, freight pre-paid and allowed.
- 9.4. Coach Delivery Schedule. The coaches and other items shall be delivered between the hours of 8:00 a.m. and 4:00 p.m., Monday through Friday. Contractor shall deliver a maximum of five coaches per week.

10. Project Planning, Scheduling and Control

10.1. Introduction. This Section specifies the requirements for project planning, scheduling and progress reporting to be performed by the Contractor in conjunction with the Contract work. Critical Path Method scheduling (CPM) shall be employed by the Contractor for planning, scheduling and reporting all work required by the Contract Documents.

10.2. Required Schedules.

- (a) Baseline Schedule: The Baseline Schedule is the detailed schedule, in bar-chart format, prepared by the Contractor, indicating the Contractor's plan for executing the Contract work. Contractor shall develop the Baseline Schedule using Microsoft Project Software or approved equal. Contractor shall revise the Baseline Schedule as necessary to incorporate approved Contract modifications. The Contractor's performance or other avoidable delays shall not be considered justification for Baseline Schedule revision. The schedule documents, reports, lists, computer software with documentation and computer diskettes and e-mail files are required with each submittal. Contractor shall submit the Baseline Schedule as required in Exhibit C.
- **(b)** Current Schedule: The Current Schedule is the updated logic network and supporting reports indicating actual progress to date and forecasted logic and progress for the remaining work. The update shall be, at a minimum, to the same level of detail as the Baseline Schedule.
- (c) Supplemental Schedule(s): Supplemental Schedules are detailed schedules prepared by the Contractor, at the request of the SFMTA, to substantiate proposed Contractor changes that may have a schedule impact.
 - 10.3. Modifications to the Schedule. When requested by the Engineer, the Contractor shall submit Supplemental Schedules to the Engineer to substantiate proposed Contract changes that may have an impact on the schedule. Contractor shall submit such schedules to the Engineer for review and approval within three working days from the request; otherwise, any proposed Contract change will not be considered by the City. On approval of a Contract modification by

the City, the approved change will be incorporated in the Baseline Schedule during the monthly update process.

11. Acceptance of Buses (supplementing Section 78.d of the Minnesota Procurement)

- 11.1. Conditional Acceptance: If a coach does not meet all requirements for final acceptance, SFMTA may, at its exclusive option, "conditionally accept" the bus and place it into revenue service, pending receipt of Contractor-furnished materials and/or labor necessary to effectuate corrective action for acceptance. For any conditionally accepted coach, the payment shall be reduced by an amount equal to three percent of the amount of the Bus, which amount shall be withheld and paid after corrective action by the Contractor and final acceptance by SFMTA.
- 11.2. Title. At the time the Bus is delivered, Contractor shall provide to the SFMTA Project Manager adequate documents for securing the title for the Bus in the State of California. Upon conditional acceptance of each coach, title to each coach shall pass to the City, which title Contractor warrants shall be free and clear of all liens, mortgages and encumbrances, financing statements, security agreements, claims, and demands of any character.

12. Taxes and Other Governmental Charges

The City agrees to pay sales taxes levied by the State of California on articles purchased by the City under this Agreement directly to the State. The City warrants that it is a public entity exempt from certain federal excise taxes and in connection therewith that it has obtained a federal excise tax exemption certificate. Contractor shall pay all other taxes, licenses, imposts, duties, and all other governmental charges of any type whatsoever.

13. Fleet Defects (superseding Section 4.1.6.1 of Contractor's Standard Warranty)

- 13.1. A fleet defect is defined as cumulative failures of any kind in the same components in the same or similar application where such items are covered by the warranty and such failures occur within the warranty period in at least 20 percent of all Buses delivered under this contract; provided, however, that components manufactured by the following companies shall not be subject to the fleet defect provisions unless a manufacturer agrees to honor the fleet defect provisions: Allison, Cummins, BAE, Thermo King. SFMTA shall have final approval of corrections or changes under these conditions.
- 13.2. The Contractor shall correct a fleet defect under the warranty provisions defined in its "Repair Procedures" (Section 4.12). Within 10 days of receipt of notification of a fleet defect, the Contractor shall provide SFMTA with a plan, acceptable to SFMTA, specifying how and when all coaches with defects shall be corrected. Said plan is subject to approval by SFMTA. In addition, after correcting such defects, the Contractor shall promptly undertake and complete a work program, acceptable to SFMTA, reasonably designed to prevent the occurrence of the same defect in all other coaches and spare parts purchased under this contract. Any proposed changes to a fleet defect work plan or program must be submitted to SFMTA for its approval.
- 14. Disadvantaged Business Enterprises (DBE) (superseding Section 74 of the Minnesota Procurement)

The Contractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The Contractor shall carry out applicable requirements of 49 CFR part 26 in the award and administration of DOT-assisted contracts. Failure by the

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Contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the recipient deems appropriate.

15. Training

Contractor shall provide training to SFMTA employees as described in the attached Exhibit A-2. Training shall be scheduled as convenient to SFMTA and its employees. Unless SFMTA and Contractor otherwise agree to a training schedule. Contractor shall provide training within 30 days of receipt of notice from SFMTA for particular training.

16. Term

The term of the Agreement shall commence on the date the City's Controller certifies the availability of funds for this Agreement ("Effective Date") and shall expire six years thereafter unless earlier terminated as otherwise provided herein.

17. Notices. The address in Minnesota Procurement Section 32 is amended to read as follows:

San Francisco Municipal Transportation Agency
Fleet Engineering Section
Attn: Gary Chang, P.E.
Project Manager
700 Pennsylvania Avenue
San Francisco, CA 94107

18. Survivability. (superseding Section 47 of the Minnesota Procurement)

This Section and the following Sections of this Agreement shall survive termination or expiration of this Agreement: 3, 8.6, 8.7, 8.8, 8.10, 8.13, 8.14 and 12. In addition, Sections 6, 9, 35 and 37 of the Minnesota Procurement shall survive termination or expiration of this Agreement.

IN WITNESS WHEREOF, the parties hereto have above.	e executed this Agreement on the day first mentioned
CITY	CONTRACTOR
San Francisco Municipal Transportation Agency	New Flyer of America Inc
	<u> Av</u>
Edward D. Reiskin Director of Transportation	Paul Smith EVP Sales and Marketing
Approved as to Form:	
Dennis J. Herrera City Attorney	Glenn Asham CFO
David A. Greenburg Deputy City Attorney	711 Kernaghan Avenue
San Francisco Municipal Transportation Agency	Winnipeg, Manitoba, Canada R2C 3T4 City vendor number: 49642
Board of Directors	
Resolution No.	
Dated:	
Attest:	
Secretary, SFMTA Board of Directors	
Board of Supervisors Resolution No.	
Dated: Attest:	
Clerk of the Board	
Exhibits:	
Exhibit A – Price Schedule Exhibit B – Proposal Changes Exhibit C – Delivery Schedule Exhibit D – Additional Equipment	

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EXHIBIT A

PRICE SCHEDULE

Item	Price per unit	Number of units	Total Price
XDE40 (ISB / BAE) Hybrid Coach	\$ 689,686.32	50	\$34,484,316
Signal Priority, Video and DVAS Wayside Infrastructure and other additional equipment, detailed in Exhibit D	\$1,357,518	1	\$1,357,518
Tooling & Diagnostics	See Exhibit A-1	See Exhibit A-1	\$130,015
Training	See Exhibit A-2	See Exhibit A-2	\$76,998
Allowance for Spare Parts	Lump sum	TBD	\$2,300,000
Contract Total			\$38,348,847

EXHIBIT A-1

SPECIAL TOOLS

New	Description	Coto	nea	TT 94	Trade F FT 1.	Transfer of
	Description	Category	Bid	Unit	Total Unit	Total Ext.
Flyer			Qty		Selling Price	Selling
Part # 122321	Twin Vision	Destination	1	Each	C1 175 76	Price C1 175 76
122321	Elyses	Sign - Twin	1	Each	S1,175.76	\$1,175.76
	Software	Vision				
128951	6 to 9 pin	ABS - Meritor	2	Each	S143.29	\$716.46
120931	adapter	Wabco	-	Each	3143.29	3/10.40
6360894	USB Key	Destination	1	Each	\$70.55	\$70.55
05000574	CSD Rey	Sign - Twin	'	Lacii	370.55	370.33
		Vision				
6408310	Repair Kit -	Disc Brakes -	1	Each	\$2,879.42	\$5,758.84
	Disc Brakes &	MAN	•	Lucii	32,077.12	35,750.04
,	Calipers					
6358421	Vapor Class	Exit Doors -	2	Each	\$97.07	\$485.36
,	System	Vapor Class				
	Diagnostic			* *		
,	Interface Kit					
6360381	Alignment	Engine -	2	Each	\$649.61	\$1,299.21
	Tool - Flex	Cummins]		
	Connector					
6393934	Intelligaire III	HVAC - TK	5	Each	\$1,324.05	\$6,620.25
	Diagnostic	. '	•			
	Software &					
100650	Cables			 	22 702 70	
108658	Panasonic	Laptop PC	5	Each	\$5,790.20	\$28,951.00
150697	CF31 Laptop Vansco	DI C. V	5	- ·	60.00	
159687	Software	PLC - Vansco)	Each	\$0.00	\$0.00
	(Download				<u> </u>	
	from Net)					
6314711	Torque	Axles - MAN	2	Each	\$1,451.69	\$2,903.39
	Multiplier		-		31,131.07	92,703.37
6351820	DLA Adapter	PLC - Vansco	5	Each	\$534.97	\$2,674.85
	Kit					02,01.102
6399628	BAE IDS	Hybrid	5	Each	\$2,939.40	\$14,697.00
	Software	Propulsion -			32,737.40	314,077,00
		BAE				•
6399629	KVASER	Hybrid	5	Each	S947.96	S4,739.82
*	Interface	Propulsion -				- 4
		BAE		1		
6400474	BAE Overhaul	Hybrid	1	Each	\$35,102.40	\$35,102.40
	Tool Kit	Propulsion -				4.
		BAE				

New Flyer Part #	Description	Category	Bid Qty	Unit	Total Unit Selling Price	Total Ext. Selling Price
6408307	ABS Sensor R&R Kit - MAN HY- 1336 RR Axle	Axles - MAN	2	Each	\$784.29	\$1,568.59
6408311	Hub Repair Kit - MAN VOK- 07 Frt Axle	Axles - MAN	2	Each	\$11,625.80	\$23,251.59
Total (dro	p decimal for fina	l price schedule)			\$130,015.07

EXHIBIT A-2

TRAINING

Description	Spare ID	Bid Qty	Unit	Total Unit Selling Price	Total Ext. Selling Price
Operator Orientation - Training	9.1	32	Hour	\$234.90	\$7,516.80
Maintenance Orientation - Training	9.1	24	Hour	\$234.90	\$5,637.60
Doors - Training	9.1	32	Hour	\$234.90	\$7,516.80
Wheelchair Ramp - Training	9.1	32	Hour	\$234.90	\$7,516.80
Air System & ABS Brakes - Training	9.1	32	Hour	\$234.90	\$7,516.80
Steering & Suspension - Training	9.1	12	Hour	\$234.90	\$2,818.80
Preventive Maintenance - Training	9.1	0	Hour	\$234.90	\$0.00
A/C System Maintenance & Diagnostics - Training	9.1	0	Hour	\$337.50	\$0.00
Exit Doors Training Aid - Mock-ups	9.1.2	1	Each	\$38,475.00	\$38,475.00
Dest. Sign Maintenance & Diagnostics - Training	9.1	16	Hour	\$0.00	\$0.00
Total (drop decimal for final price so	hedule)				\$76,998.60

EXHIBIT B - Proposal Changes from Base Bus Price

	7.250.40	₩	Change paint to Silver with Red Decals and Anti Graffiti Clearcoat per 2-3 and attachment.	Paint & Decal	304	13
	14.23	↔	Add hill holder switch per 4-6 and 5-4	Drivers Control	350	12
	146.76	မှာ	Add pushbuttons on all vertical stanchions per 3-9	Passenger Signal	780	7
	1.80	₩	Change passenger signals at wheelchair positions to pushbuttons per 3-9.	Passenger Signal	280	0
	1,337.00	မာ	Change passenger lights to Docket 90 per 3-4	Interior Lighting	277	တ
	1	မာ	Add Anderson jumpstart per 7-4. Added Below	Battery Compartmen t	260	&
	150.88	ક	Change batteries to 8D (AGM/Deka) East Penn, 1350 CCA batteries.	Battery Compartmen t	260	7.
	211.53	\$	Add Automatic traction control per 5-3	Air, Brake & Lev System	246	6
	875.11	မှာ	Change air dryer to Graham White QBA60 per 5-5	Air, Brake & Lev System	246	5
· .	58.06	€9	Add engine probalizer per 6-3	Engine	219	4
	(2,861.04)	ક્ક	Change to customer supplied LEASED tires, to be furnished by contractor per 5-7	Tires	205	3
	2,519.00	မှ	Add E-strokes per 5-3	Tires	205	2
	632.20	မှာ	Add Docket 90 per 1-12	Body A/P Before Paint	420	-
	al	Total	Description	Option Group	Option No.	Reference No.
			.A.E Propulsion System	e tor b.A.E.Pr	pase bus Price Change for B	e Dus r

jej.	(73.88)	25.16	1,112.53		2,115.63	887.13	645.37	105.34	165.31	2,028.57	2,298.40	11.16	86.66	1,102.03	4,209.89
Total	€9	€	⇔	es .	es .	€9	€9	↔	₩	69	မ	မှ	မှာ	s	မ
Description	Remove rollerblind per California Vehicle Code, Section 26708. Note, NF can't install sun visor due to sawtooth per 4-9.	Add two interior ad frames 17" x 11" per 3-22	Change flooring to composite per 2-7	Change floor covering to Altro D25-421 "Midnight" per 2-7. Color Change only from base bus. No cost impact	Change windows to include window protection sheet (specific glazing), scratch resistant per 3-1 and attachment	Add Sportworks with indicator light per 2-3	Add Motorola Radio system per 3-17. Provisions only	Add dash panel rack (2 compartments) per 3-22	Add Emergency Warning light system (activated when silent alarm is tripped) per sec 3-22	Add S1 guard per 3-23	Add NEXTBUS system per 3-23	Add trash receptacle per 4-9	Add storage locker behind operator seat per 4-10	Add Fleet management	Add fire suppression per 5-7
Option Group	Body A/P After Paint	Advertising Frames	Flooring A/P	Flooring A/P	Windows	Customer Options	Customer Options	Customer Options	Customer Options	Customer Options	Customer Options	Customer Options	Customer Options	Customer Options	Customer Options
Option No.	422	423	450	450	460	009	009	009	009	009	009	009	009	009	009
Reference No.	14	15	16	17	18	19	20	21	22	23	24	25	56	27	28

Total	(3,673.83)	12,619.66	21,618.43	14,558.59	156.56	276.75	8,626.50	1,518.67	321.98	3,909.00	144,191.00	692.25	43.40	974.60
<u> </u>	₩	မှာ	မှ	₩	⇔	₩.	မှာ	49	s	₩	မှ	ક	€9	€9
Description	Remove floor heating system and auxiliary heater.	Change destination signs to TwinVision Color Destination Signs (Front, C/side, S/side). Add amber rear.	DTI Camera System	Add On-Board AVAS per 3-12 to 3-13	Re-quote to American Seating 6468, 36 passenger seats (perimeter in the L/D and forward facing in upper deck), staggered forward facing Q'Straint W/C restraint, with blue push button, BC55 flip seats	Change driver seat to USSC 9100ALX non-D90 per 4-7.	Add APC per 3-20 to 3-22	Remove MDOT Specific Manuals, replace with SFMTA specific manuals	Add Stop request sign on destination sign compartment door	Add Delivery Quote	BAE Hybrid	Add rapid recover and equip with raise feature for steep inclines, 1" at 3 MPH is preferred to prevent chances of damaging front shocks.	Add beeper exterior sound when buses are turning with via footswitch. Note, the volume of the exterior beeper will not be adjustable by the driver	Change to teleflex pedals.
Option Group	HVAC System	Destination Signs	Customer Options	Customer Options	Seating & Stanchions	Seating & Stanchions	Customer Options	Deliverable	Passenger Signal	Deliverable	Producer Price Index	Air, Brake & Lev System	Customer Options	Drivers Control
Option No.	549	470	009	009	526	526	009	Manuals	280	Delivery	<u>l</u> dd	246	009	350
Reference No.	29	30	31	32	33	34	35	36	37	39	40	41	42	43

			, .				_				·	,		
isi	•	3,368.78	78.12	(11,073.00)	(190.19)	104.87	654.01	538.30	682.02	63.93	318.60	462.52	8,625.00	2,469.78
Total	မှ	s	မှ	မှ	မှာ	မှ	မှ	\$	es ·	မှာ	မှ	မှာ	ss	c s
Description	Add additional feature for exterior announcement as passenger exit the bus "Do not walk in front of bus". No additional cost, feature is standard in AVAS system	Re-quote Vapor Class system to include Activair baseplate with locking mechanism.	Add 10" seat belt extender, to change seat belt length.	Change to Heat only. (Pricing per MDOT contract)	Delete the farebox pedestal portion of the farebox, the farebox will sit on the floor so it does not obscure the driver's view in the event a 41" farebox installed.	Add transfer mounting bracket, farebox mounting support plate and wiring.	Add qty 12 metal grab straps. Change stanchions to cast fittings for use with metal grab straps. Note: Metal grab straps not useable with bonded stanchions.	Add customer specific farebox pedestal (in the event an 41" farebox is installed)	Change the wheels to Alcoa Dura-Brite.	Change to two 18"x 1"LED center stop/deceleration light above the engine door in lieu of flashing decel system per Section 3.3.2.	Add two (2) external recessed buttons (elevator switches)	Clipper cable harnesses.	Add EMP cooling system to base.	Add bi-fold drivers enclosure.
Option Group	Customer Options	Door Exit	Seating & Stanchions	HVAC System	Customer Options	Customer Options	Seating & Stanchions	Customer Options	Tires	Exterior Lamp	Customer Options	Customer Options	Cooling System	Body A/P After Paint
Option No.	009	491	526	549	009	009	526	•	205	273	009	009	231	422
Reference No.	44	45	46	47	48	49	20	51	52	53	54	35	20	57

Total	\$ 1,665.90	\$ 625.00	\$ 350.80	\$ 9,944.10	\$ 16,500.00	\$ 6,020.00	\$ 15,000.00	\$ (70.00)	\$ (552.00)	\$ 302.67	\$ (8.65)	\$ 105.95	\$ 2,001.04		(78.00)
Description	Add rearview camera system with 7" color monitor in driver's area	Add Drive cam with event recorder	Add two more for a total of four Equipment Trays.	Add 2nd Year Bumper to Bumper extended warranty	Add 3 year Extended BAE Warranty	Add 20% Performance Bond and 2 year, 10% Warranty Bond	Add APS2 from BAE	Driver's park brake alarm from seat cushion to seat belt activation	Drivecam to change to harness provision only	Add cornering lamp to curbside rear	Add keyed paddle latches to the SDS enclosure door	Add 12 additional black nylon grabstraps	Revisions to Seating Configuration & Layout	Add Equipment Box to Curbside Luggage Rack	Reverse increase for Driver's Seat Belt Extender
Option Group	Customer Options	Customer Options	Body A/P After Paint	Deliverable	Deliverable	Deliverable	Engine	Seating & Stanchions	Customer Options	Exterior Lamp	Body A/P After Paint	Seating & Stanchions	Seating & Stanchions	Customer Options	Seating & Stanchions
Option No.	009	009	422	Ext. Warrant y	Ext. Warrant y	Bonding	219	526	009	273	422	526	526	009	526
Reference No.	28	29	6	61	62	63	64	99	99	67	89	69	02	71	72

Option No.	Option Group	Description	Total	
1	Battery Compartmen t	Add battery jumpstart per proposal	⇔	304.80
•	Customer Options	Delete back up camera and monitor	69	(1,666.00)
526	Seating & Stanchions	Reverse credit to change back to driver's park brake alarm triggered thru seat cushion	₩	70.00
290	Wiring Diagrams	Change functionality on instrument panel indicators	69	19.07
284	Elect - Side/Console	Add guard to hill switch	မှ	24.46
422	Body A/P After Paint	Change to square keys from torque fasteners on rear PLC	မာ	(91.22)
422	Body A/P After Paint	Change square keys to torque latches on bulkhead access doors	မာ	87,27
246	Air, Brake & Lev System	Add front tow & change air connect fitting tags	s	23.21
304	Paint & Decal	Add ramp decal below kneeling light	မှ	27.52
246	Air, Brake & Lev System	Change to stainless steel braided hoses at the air dryer	es.	39.80
549	HVAC System	Change to ball valves on coolant lines	€	114.68
203	Suspension Front	Add splash apron behind front wheels	မှ	194.00
480	Mirrors	Replace driver's exterior mirror and arm	es.	80.28
009	Customer Options	Add exterior camera above driver's window	ક્ક	787.21
491	Door Exit	Add retaining screw to exit door frangible cover box	မှ	10.80
526	Seating & Stanchions	Replace metal handholds with black nylon grabstraps	ક્ક	(1,137.84)
	T .			

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Γ		00.0	00.0	3.00	5.32	456.10	456.10	1.42
	is in	2,340.00	2,340.00	5,078.00	\$ 297,885.32	456	456	\$ 298,341.42
1	lotal	↔	€9	es	မှာ	မာ	ક્ક	မှ
	ion Group Description	Add CONNECT software	Change delay on pressure sensor on driver's seat from 5 seconds to 1 second	Electrical Power Steering and Compressor		One Spare Wheel per bus	oe Total	
	Option Group	Destination Signs	Wiring Diagrams	Steering	Total	Contract	Aus Price Change Total	
	Option No.	470	290	209	Base Bus Price Change Total	705	Contract Spares Base Bus	
	Reference No.	88	06	91	Race Rus D	38	Contract Sp	Grand Total

EXHIBIT C

DELIVERY SCHEDULE

Item	Calendar Days Notice to Pro	
Submittal of Baseline Schedule	60	
Submittal of vehicle drawings	90	
Beginning of coach delivery	90	<u>_</u>
Completion of coach delivery	180	

Exhibit D-Additional Equipment

Final Cost:	\$77.0.8826.68
Original Cost:	\$ 689/686522

Description	Date	SR1794 BAE
Bike Rack from NP to WP	06/12/2013	\$0.00
Street Mirror to Higher Mount Type	06/17/2013	\$0.00
Seating Layout	07/09/2013	\$0.00
Radio Cables	07/23/2013	(\$52.18)
DRI Infrastructure	07/23/2013	(\$295.82)
Kratos Infrastructure	07/24/2013	\$16,470.00
UTA Infrastructure	07/25/2013	(\$125.00)
DriveCAM	08/12/2013	\$772.63
Frangible Glass	08/12/2013	\$33.75
Signal Priority Equipment	08/30/2013	\$6,786.71
Side Visor	09/20/2013	\$206.01
Clipper Commissioning	09/20/2013	\$2,484.45
Coolant Flush and Replacement	09/24/2013	\$869.81
Cost per Bus		\$27,150.36
Total Cost for 50 Bus Procurement	·	\$1,357,518.00



Edwin M. Lee, Mayor

Tom Nolan, Chairman Malcolm Heinicke, Director Joél Ramos, Director Cheryl Brinkman, Vice-Chairman Jerry Lee, *Director* Cristina Rubke, *Director*

Edward D. Reiskin, Director of Transportation

October 4, 2013

The Honorable Members of the Board of Supervisors City and County of San Francisco 1 Dr. Carlton Goodlett Place, Room 244 San Francisco, CA 94102

Subject: Request for Approval

Contract with New Flyer of America for the Purchase of 50 40-foot Diesel-hybrid Buses

Honorable Members of the Board of Supervisors:

The San Francisco Municipal Transportation Agency (SFMTA) requests that the San Francisco Board of Supervisors approve a Contract between the City and County of San Francisco and New Flyer of America Inc. for the purchase of 50 40-foot diesel-hybrid buses, in an amount not to exceed \$38,348,847 and for a term not to exceed six years.

The purpose of this project is to replace 50 Neoplan diesel buses in SFMTA's current fleet that have reached the end of their useful life. The new buses will be purchased from New Flyer of America Inc. through the Minnesota Cooperative Purchasing Venture (CPV). Purchasing the buses through the Minnesota CPV enables the SFMTA to reduce the time it normally takes for a major bus procurement by approximately nine months.

Background

The SFMTA's fleet includes 50 Standard (40-foot) buses manufactured by Neoplan that were delivered in 2001. These buses have reached the end of their service life and are ready to be retired from regular revenue service.

The SFMTA has been exploring alternative procurement avenues to reduce the time it takes to purchase replacement vehicles. Staff has determined that by purchasing replacement vehicles through the Minnesota CPV, it is possible to achieve this objective.

Minnesota's CPV, which was established by Minnesota Statute Section 16C.03, subdivision 10, allows eligible entities to purchase goods, certain services and utilities from contracts established by the Materials Management Division (MMD) for Minnesota state agencies. MMD issues competitive solicitations for vendors to provide goods, services and utilities to state agencies.

This program allows eligible governmental entities to use these contracts just like Minnesota agencies. Minnesota statute Section 471.59, subdivision 1, known as the Joint Powers Act, defines the governmental entities that may join the CPV program to include counties, cities, towns, townships, school districts, and other entities. The SFMTA is eligible to join the CPV under Section 471.59, subdivision 1. On March 6, 2012, the SFMTA Board of Directors adopted Resolution No. 12-029 which authorized the SFMTA to join the CPV.

In October 2012, Minnesota's MMD issued a competitive request for proposals (RFP) for 2013 Model Year transit buses, including heavy duty (Class 700) low floor diesel hybrid coaches, on behalf of the members of the Minnesota CPV (the Minnesota Procurement). The Minnesota Procurement complied with the third-party procurement requirements of the Federal Transit Administration (FTA).

The specifications of the buses in the Minnesota Procurement are broad enough to allow the SFMTA to customize the vehicles to meet the needs of the SFMTA so long as SFMTA's requirements do not require cardinal changes to the design of the vehicles.

Bid Process

SFMTA previously purchased 62 diesel hybrid buses from New Flyer of America Inc. New Flyer informed SFMTA that they have an open slot in their production line and that they are willing to hold the price for this bus procurement at the same level as our previous procurement in the SFMTA will award this bus procurement to New Flyer. In view of the price freeze and more importantly the immediate line entry of SFMTA's buses into production, staff has determined that it is in the best interest of the City to award the contract to New Flyer.

Description of Work

This procurement project is to purchase 50 40-ft low floor hybrid buses from New Flyer, Inc. The 50 buses in this latest procurement will have the BAE propulsion package and the same features the 62 buses recently purchased from New Flyer which include various enhancements to the basic bus, including a Closed Circuit TV system identical to the one that SFMTA will be installing in its other revenue vehicles, the wheelchair securement layout, a "proof-of-payment button" to enable patrons to enter the bus from the rear door, a rubber guard on the bus frame near the rear wheel, color destination signs, conduit for the new radio system and the same Vapor door with positive locks. The Contract also includes special tools and diagnostics equipment, training and an allowance for spare parts.

Alternatives Considered

SFMTA considered other alternatives, such as purchasing option vehicles from other transit authorities or purchasing vehicles through the regular RFP process. SFMTA deemed that purchasing the buses through the Minnesota CPV was the best alternative. Purchasing option vehicles from other transit authorities did not allow for the SFMTA to add the desirable features to the vehicles, and purchasing vehicles through the regular RFP process would take much longer than procuring them through the CPV.

Funding Impact

The total New Flyer contract is \$38,348,847. With tax, warranty support, staff project support and required vehicle inspections, the total project cost is \$44,463,740. Following is a detail of the project budget:

Total Project Budget

New Flyer Contract	Cost	
Vehicles (50)	\$34,484,316	
Tools & Diagnostics	\$130,015	
Training	\$76,998	
Signal Priority, Video and DVAS Wayside	\$1,357,518	

New Flyer Contract	Cost
Infrastructure	Cost
Allowance for Spare Parts	\$2,300,000
Subtotal New Flyer Contract	\$38,348,847

Other Associated Cost Items	Cost
Tax (8.75%)	\$3,348,787
Warranty support	\$230,000
Project support (SFMTA staff, Other Direct Cost)	\$1,936,106
Vehicle Inspection at Plant (FTA Required)	\$600,000
Subtotal Other Associated Cost Items	\$6,114,893
Total Project Cost	\$44,463,740

This project will be funded by FTA Section 5307 funds and Proposition K Sales Taxes as detailed below.

Financial Plan

Project Funding Source	Amount
Federal Grant	\$28,467,700
Proposition K	\$15,996,040
Total Funding	\$44,463,740

SFMTA Board Action

On October 15, 2013, the SFMTA Board of Directors will be considering adoption of a Resolution authorizing the Director of Transportation to execute the Contract with New Flyer of America in an amount not to exceed \$38,348,847 and for a term not to exceed six years.

Recommendation

The SFMTA recommends that the San Francisco Board of Supervisors authorize the SFMTA to enter into a Contract with New Flyer of America Inc. for the purchase of 50 40-foot diesel-hybrid buses in an amount not to exceed \$38,348,847 and for a term not to exceed six years.

Thank you for your consideration of this proposed agreement. Should you have any questions or require more information, please do not hesitate to contact me at any time.

Sincerely,

Edward D. Reiskin

Director of Transportation

SAN FRANCISCO MUNICIPAL TRANSPORTATION AGENCY BOARD OF DIRECTORS

RESOLUTION No. 12-029

WHEREAS, San Francisco Municipal Transportation Agency (SFMTA) staff recommends using a Cooperative Purchasing Venture (CPV) established by the State of Minnesota through its Materials Management Division (MMD) to purchase replacement vehicles for its fleet of diesel buses; and,

WHEREAS, Minnesota established the Cooperative Purchasing Venture to allow eligible entities to purchase goods, certain services and utilities from contracts established by the MMD for Minnesota state agencies and other governmental entities; and,

WHEREAS, The Minnesota Statutes § 471.59, subdivision 1, known as the Joint Powers Act, defines the governmental entities that may join the CPV program which include counties, cities, towns, townships and school districts, as well as other entities; and,

WHEREAS, The SFMTA is eligible to join the Cooperative Purchasing Venture under Minnesota Status § 471.59, subdivision 1; and,

WHEREAS, The SFMTA will be able to reduce the time it takes to procure replacement buses by about six months by buying replacement buses through the CPV and may realize cost savings from the CPV; and,

WHEREAS, The MMD of Minnesota requires government agencies that wish to join the venture to sign a Cooperative Purchasing Agreement; and

WHEREAS, The Cooperative Purchasing Agreement will remain in effect until June 30, 2021 and includes a provision requiring indemnification of MMD by the SFMTA; and

WHEREAS, Entering into the Cooperative Purchasing Agreement is in the best interests of the City and SFMTA; now, therefore be it

RESOLVED, That the SFMTA Board of Directors authorizes the Director of Transportation to execute a Cooperative Purchasing Agreement with the State of Minnesota, through its commissioner of Administration, Materials Management Division, for procurement of diesel coaches.

I certify that the foregoing resolution was adopted by the Municipal Transportation Agency Board of Directors at its meeting of March 6, 2012.

R. Boomer

Secretary to the Board of Directors
San Francisco Municipal Transportation Agency

SAN FRANCISCO MUNICIPAL TRANSPORTATION AGENCY BOARD OF DIRECTORS

RESOLUTION No. 13-228

WHEREAS, Under Section 21.16 of the San Francisco Administrative Code, the SFMTA may utilize the competitive procurement process of any other public agency to make purchases of commodities under the terms established in that agency's procurement process and as agreed upon by the City and the procuring agency, upon making a determination that the other agency's procurement process was competitive and the use of the other agency's procurement process would be in the City's best interests; and

WHEREAS, The State of Minnesota, through its Materials Management Division (MMD), established the Cooperative Purchasing Venture (CPV) to allow other eligible entities such as the SFMTA, to purchase goods, certain services and utilities from contracts established by the MMD for Minnesota state agencies; and

WHEREAS, In 2011, the State of Minnesota issued a competitive request for proposals for 2012-13 model year transit buses, including heavy duty (Class 700) low floor diesel hybrid coaches, on behalf of the members of the Minnesota CPV, awarding a contract to New Flyer of America ("New Flyer") on or about February 3, 2012; and

WHEREAS, On March 6, 2012, the San Francisco Municipal Transportation Agency (SFMTA) Board of Director adopted Resolution No. 12-029, which authorized the SFMTA to join the Minnesota CPV; and

WHEREAS, under the CPV, on October 23, 2012, the SFMTA awarded Contract No. 2013-08 to New Flyer of America to purchase 40-ft diesel hybrid buses to replace the SFMTA's existing NABI bus fleet, which have reached the end of their useful life; and

WHEREAS, In 2012, the State of Minnesota issued a competitive request for proposal for 2013-14 model year transit buses, including heavy duty (Class 700) low floor diesel hybrid coaches, on behalf of the members of the Minnesota CPV (the Minnesota Procurement); the Minnesota Procurement complied with the third party procurement requirements of the Federal Transit Administration; and

WHEREAS, New Flyer submitted a proposal in response to the Minnesota Procurement that was opened on December 23, 2012; and

WHEREAS, Minnesota accepted the proposal and issued Notification of Contract Award to New Flyer on or about February 18, 2013; and

WHEREAS, SFMTA staff recommends using the CPV to purchase 50 40-foot low floor diesel-hybrid buses from New Flyer to replace 50 of SFMTA's buses originally manufactured by Neoplan USA Corporation that have reached or exceeded their useful service life of 12 years,

having been placed into service starting in August, 2000; and

WHEREAS, New Flyer has capacity at its production facility to start manufacturing the 50 buses immediately; and

WHEREAS, SFMTA staff has negotiated an agreement with New Flyer for the purchase of 50 40-foot low floor diesel-hybrid buses and related tools, training and spare parts; now, therefore be it

RESOLVED, That the SFMTA Board of Directors finds that it is in the best interests of the City that the SFMTA procure 50 40-foot low floor diesel hybrid buses from New Flyer of America Inc. through the Minnesota Cooperative Purchasing Venture; and be it

FURTHER RESOLVED, That the SFMTA Board of Directors authorizes the Director of Transportation to execute Contract No. SFMTA-2014-01 with New Flyer of America Inc., to purchase 50 40-foot low floor diesel-hybrid buses, for an amount not to exceed \$38,348,847 and a term not exceed six years; and be it

FURTHER RESOLVED, That the SFMTA Board of Directors commends Contract No. SFMTA-2014-01 to the Board of Supervisors for its review and approval.

I certify that the foregoing resolution was adopted by the Municipal Transportation Agency Board of Directors at its meeting of October 15, 2013.

R. Bowner

Secretary to the Board of Directors
San Francisco Municipal Transportation Agency



October 21, 2013

Eric Mar, Supervisor District 1 Mark Farrell, Supervisor District 2 John Avalos, Supervisor District 11 1 Dr. Carlton B. Goodlett Place City Hall, Room 244 San Francisco, Ca. 94102-4689

RE: Preventative Maintenance New Flyer Program

Dear Supervisors,

The San Francisco Municipal Transportation Agency (SFMTA) is asking the Budget and Finance Committee to approve the purchase of fifty new hybrid buses manufactured by New Flyer. This is the second step in our journey to replace the oldest rubber tire fleet of any major system in the nation within five years (See Attachment 1). Your help and support allowed us to procure 62 buses from New Flyer last spring which are now operating on routes throughout the city. Your favorable action will not only help us replace some of our least reliable vehicles but will permit us to have 112 new clean hybrid buses introduced into service by the end of 2013. The procurement is possible by aggressively pursuing alternative procurement methods by joining with other transit systems in the Minnesota Cooperative Purchasing Venture. This arrangement is sanctioned by the Federal Transit Administration and has allowed us to negotiate an accelerated delivery schedule and a favorable price. For example, we are paying \$2,000 less per bus on the second installment of 50 buses than the first installment.

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The introduction of new buses into our fleet is also being done in concert with review of our maintenance practices. While we have always assured that only buses that meet our most stringent safety standards go into service, we can now focus on improving timely and complete repairs, ensuring vehicle cleanliness, and strengthening our preventative maintenance program. I am enclosing a copy of the manufacturer-issued maintenance program for our new vehicles (See Attachment 2). Our mechanics are being trained on all features of the bus. We expect a dramatic improvement in our service reliability and better service on the streets for our customers.

We face increasing public expectations not only to improve the reliability and performance of our transit system but to meet the additional service requirements of anticipated growth in our city. Your favorable action on this item will help us continue on our path to improving the safety, cleanliness and performance of our bus fleet. Please let us know if you require additional information.

cc: Scott Wiener, Supervisor District 8

Edward Reiskin, Director of Transportation

Janet L. Martinsen, Local Government Affairs Liaison

1 South Van Ness Avenue 7th Floor, San Francisco, CA 94103 415.701.4500 www.sfmta.com

Eric Mar, Supervisor District 1 Mark Farrell, Supervisor District 2 John Avalos, Supervisor District 11 Preventative Maintenance New Flyer Program

Attachment 1: Time frame for rubber tire fleet replacement within five years

Fleet	Time Period	Replace	Expand_	Reduce
40ft Hybrid	2013	112	17	0
60ft Trolley	2014-2017	93	17	0
40ft Trolley	2015-2018	190	0	50
60ft Hybrid	2014-2019	124	65	0
40ft Hybrid	2015-2019	186	14	0
30ft Hybrid	2019	30	0	10

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Mark Farrell, Supervisor District 2
John Avalos, Supervisor District 11
Preventative Maintenance New Flyer Program

Attachment 2: Overall Preventative Maintenance schedule for New Flyers

]	Preventative M	aintenance Schedu	le: New Flyer Hybrid	
				;·
Daily				
2.5K				
3K				
5K				
6K				
12K				
15K				
24K			.~	
30K			,	
48 K				
50K				
60K			· · · · · · · · · · · · · · · · · · ·	
96K	,			
100K				

^{*} Average bus operates just under 100 miles per day. Checklists are provided for each inspection interval.

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John Avalos, Supervisor District 11
Preventative Maintenance New Flyer Program

Attachment 3: Overhaul Frequency

Overhaul Frequency		
Brakes	1 Year	
HVAC	1 Year	
Tires	1-2 Years	
Transmission	4-5 Years	
Energy Storage	3-6 Years	
Engine	4-5 Years	
Body	6 Years	



Daily Preventive Maintenance

2.4. Dally Preventive Maintenance

2.4.1. Exterior Check

- Wheels are undamaged and studs and nuts are secure.
- Tires correctly inflated.
- ☐ Vehicle is level.
- ☐ Exterior panels are undamaged.
- □ No fluid leaks exist under vehicle.
- □ No fluid leaks exist at axles.
- Surge tank coolant level is correct.
- Hydraulic reservoir level is correct.
- Engine and drive unit fluid levels are correct.
- ☐ Fuel tank is full.
- Drain moisture from all air tanks. Excess moisture in wet tank may indicate need for air dryer desiccant filter change.

2.4.2. Operational Check

Start the vehicle and check the following for correct condition and operation.

- Low air warning indicator and buzzer.
- Instrument panel indicators.
- Turn signals.
- ☐ Door control.
- Mirror condition and adjustment,
- Window and windshield visibility.
- Windshield wipers and washer.
- □ Destination signs.
- Front and rear doors.
- Wheelchair ramp.
- Interior and exterior lights.

Steering column.

- Door master switch.
- Headlights.
- Door manual air release valve.
- Passenger signals.
- Instrument panel gauges.
- Brake pedal.
- Parking brake.
- □ Accelerator.
- Drive unit shift selector.
- ☐ Air system charges to 125 psi within 5 minutes if system is fully depleted.

R NOTE

If any of these systems do not operate correctly, or if a fault indicator illuminates, DO NOT drive the vehicle. Refer to Section 19 of this manual for details on the correct operation of all vehicle controls.

2.5. Monthly Preventive Maintenance

2.5.1. Bike Rack

Inspect and service the bike rack. Refer to Section 13 of this manual for procedure.

2.5.2. Fire Suppression System

☐ Inspect the fire suppression system at this interval. Refer to "Periodic Maintenance - Normal" in the Dual Spectrum Operation & Maintenance Manual provided on your New Flyer Transit Information Viewer (TIV) on CDROM. Refer to "Vendor Service Information" in Section 4 of this manual on TIV for the link to this manual. Also refer to Dual Spectrum Manual for further preventive maintenance information on this equipment.

Preventive Maintenance Inspection Guide



2.7. 2,500 Miles (4,000 km) Preventive Maintenance

2.7.1. Rear Axle Oil Change

Refer to "Rear Axle Lubrication Guide" in this section for details of axle components requiring lubrication at this interval. See "Fig. PM-22: Rear Axle Lubrication Points" on page 40.

2.8. 3,000 Miles (4,800 km) Preventive Maintenance

2.8.1. Driveshaft Lubrication

Lubricate driveshaft at this interval. Refer to "Driveshaft" in this section for procedure.

I NOTE:

The maintenance performed at this interval is of a non-recurring nature and is performed during the initial run-In period.

2.9. 5,000 Miles (8,000 km) Preventive Maintenance

2.9.1. Drive Unit Filter Change

A CAUTION:

Fluid and filter change frequency is determined by the severity of drive unit service. More frequent changes may be necessary if the operating conditions create high levels of contamination or overheating. Perform an oil analysis to determine proper change interval if there is any question as to the severity of the drive unit duty cycle. Refer to Allison EP 40/50 SystemsTM Service Manual for more information on oil analysis.

IG NOTE:

Change both external oil filters after first 5,000 miles (8,000 km) and thereafter every 50,000 miles (80,500 km).

Change fluid every 100,000 miles (161,000 km) intervals).

Change internal sump pick-up filter at over-

haul.

Refer to Allison E^P 40/50 Systems™ Service Manual for more information on fluid and filter change intervals and fluid contamination.

Change drive unit filters as follows:

- Park vehicle on a level surface, set drive unit in neutral [N].
- Apply parking brake and chock wheels to ensure vehicle cannot move.

MOTE:

Refer to "Raising the Vehicle" in the General Information Section of this manual for lifting procedures.

- Remove the spin-on Control Main Filter using a filter wrench. Drain filter into a suitable container. See "Fig. PM-2: EV Drive Unit Oil Filters" on page 10.
- Remove the four bolts that retain the canister Sump Lube Filter (gold series) cover to the drive unit. Remove cover and canister element and drain fluld into a suitable container. Discard O-ring.
- Lubricate seal on filter with clean transmission fluid and install new spin-on Control Main Filter. Use filter wrench and torque to 75 to 100 in-lb. (8.5 to 11.5 Nm).
- Install new O-ring on filter cover and lubricate with clean transmission fluid.
- Install new element into cover and install cover and element onto drive unit. Secure cover in place with four bolts.
- Add fluid to replenish the quantity lost during filter replacement.
- Start engine and run at fast idle. Check for leaks.
- 10. Check the fluid level once the drive unit has reached operating temperature. Refer to "Drive Unit Fluid Level Check" in Section 5 of this manual for procedure. Add or drain fluid as required.



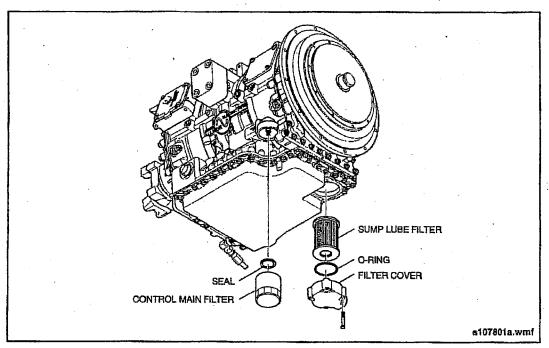


Fig. PM-2: EV Drive Unit Oil Filters

2.10.1. Wheels & Tires inspection

- Visually inspect front tires for unusual tread wear indicating wheels are out of alignment, suspension damage has occurred or tires are not properly inflated.
- Visually check front wheel rims and outside rear wheel rims are not bent, cracked or damaged.
- Check tires are same make, model and size.
- Check wheels are balanced.
- Check wheel nuts are tightened to the specified torques. Refer to Section 1 & 2 of this manual for specifications.

2.10.2. Drive Unit Inspection

Every 6,000 miles (9,600 km) inspect the drive unit for the following conditions:

- Loose bolts (drive unit to engine attachment components).
- O Oil leaks (correct immediately).
- Worn or frayed electrical harnesses, improper routing.
- Damaged or loose oil lines.
- ☐ Worn or out-of-phase driveline yokes and slip joints.
- Clogged or dirty breater (oil vent).



2.10.3. Driveshaft

F NOTE:

For initial run-in period, lubricate driveshaft upon receipt of vehicle. Thereafter, lubricate every 6,000 miles (9,600 km).

2.10.3.1.Lubrication Specifications

WARNING:

Inadequate lubrication can cause driveline failure which can result in separation of the driveline from the vehicle. A separated driveline can result in serious injury or death. In order to avoid driveline fallure, including driveline separation, you must:

- 1. Only use recommended lubricants.
- 2. Be sure that you relubricate every 6,000 miles (9,600 km) or every 90 days.

2.10.3.2.Recommended Lubricants

Standard Application - Use a good quality E.P. (Extreme Pressure) grease (Timken Test Load 45 lbs. min.) meeting N.L.G.I. (National Lubricating Grease Institute) grade 2 specification. Grease must have an operating range of +325 to -10°F (+163 to -23°C) and be compatible with commonly used multipurpose greases such as Lithium Soap Types.

2.10.3.3.Universal Joint Lubrication

- 1. Check for looseness.
- 2. Apply grease until new grease purges from seals. See "Fig. PM-3: Driveshaft Lubrication Points" on page 11.
- If any seals fail to purge, move the driveshaft from side to side and then apply grease gun pressure. This allows greater clearance on the thrust end of the bearing assembly that is not purging. If the seals still fail to purge then release the seal tension by loosening the bolts securing the bearing assembly that fails to purge. It may necessary to loosen the bearing assembly approximately 1/16" minimum. If loosening the bearing assembly does not cause purging, remove the bearing assembly to determine the cause of the blockage.

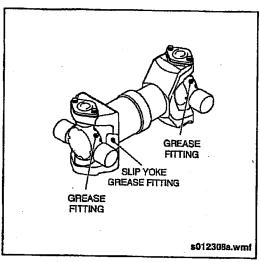


Fig. PM-3: Driveshaft Lubrication Points

2.10.3.4.Slip Yoke & Spline Lubrication

- Check for looseness.
- 2. Apply grease gun pressure to lubrication zerk fitting until lubricant appears at pressure relief hole in welch plug at slip yoke end of spline. At this point, cover the pressure relief hole with a finger and continue to apply grease gun pressure until lubricant appears at the sleeve voke seal. This will ensure complete lubrication of spline.

CAUTION:

in cold weather months, activate the slip spline assembly by driving the vehicle sufficiently to cause displacement of the grease prior to it stiffening. Otherwise, the slip yoke plug may be forced out due to hydraulic pressure. This will cause loss of grease and allow abrasive contaminants to enter the slip spline.



2.10.4. Steering System Inspection

A CAUTION:

Prevent dirt or foreign particles from entering hydraulic steering systems. ALWAYS clean off around filler caps, before removing.

- D Every 6,000 miles (9,600 km) intervals, check and if necessary, tighten all steering gear mounting bolts, pitman arm retaining nut, and drag link to steering arm retaining nuts. See "Fig. PM-4: Steering Gear Inspection" on page 12.
- ☐ Check for wear in steering linkage and other components before making adjustments to steering gear assembly. Always

carefully examine all steering parts which have been subject to impact and replace any that are damaged. (Replace only with original equipment.)

- Prevent internal bottoming of steering
- Inspect hydraulic hoses for condition and leaks. Correct even minor hydraulic leaks.
- ☐ Check for air in the fluid system. If required bleed system. Refer to "Bleeding Power Steering Hydraulic System" in Section 3 of this manual for procedure.
- Check for evidence of dirt, sludge, or water in the system. If present, drain and refill with new hydraulic oil.

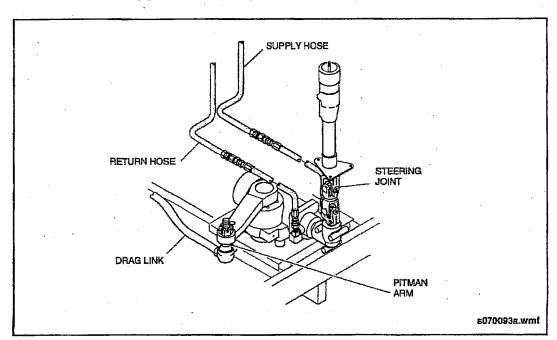


Fig. PM-4: Steering Gear Inspection



2.10.4.1.Stop Bolt Head & Axle Boss Clearance

- ☐ Every 6,000 miles (9,600 km) or when steering linkage is repaired or replaced, check the clearance between the stop bolt heads and axle bosses, Refer to Section 3 of this manual if not within the specified clearance.
- Check all front axle components for wear looseness or seizure.
- Inspect front and rear suspension components.
- Check steering gear mounting to be sure it is tight and not shifting on the chassis or axle.
- Inspect steering column components.

2.10.4.2.Drag Link

Every 6,000 miles (9,600 km) ensure drag link end stud nut is kept tight or stud hole in steering arm may become enlarged as a result of excessive looseness. Subsequent

tightening of stud nut may draw stud into arm so far that dust cover parts may be damaged during sharp turns.

NOTE:

Linkage between steering gear and front exte definitely affects steering action if parts are out of adjustment, bent or twisted, Check steering geometry and front wheel alignment when steering linkage is repaired or replaced. Refer to Section 3 of this manual for procedure.

2.10.5. Cooling System

Inspect the cooling system every 6,000 miles (9,600 km) or 600 operating hours to determine if service is required.

 At surge tank, check coolant level by observing through sight glass. If coolant is visible in sight glass, system contains adequate solution. If coolant is not visible, add coolant to return system to correct level. See "Fig. PM-5: Surge Tank Inspection" on page 13.

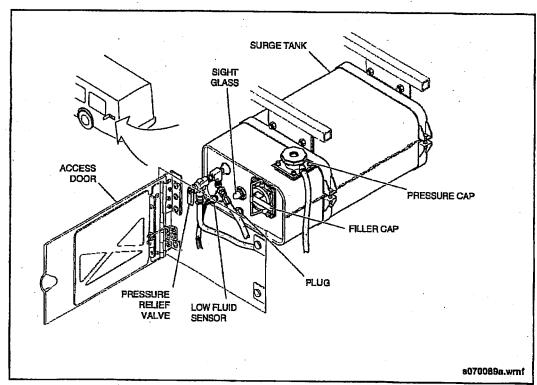


Fig. PM-5: Surge Tank Inspection

- NEW FLYER
- Check hose connections and tighten clamps as necessary. Cracked, swollen or deteriorated hoses must be replaced.
- Check radiator core and heater cores for leaks and for accumulation of dirt which obstructs alr passage. Clean cores with air hose using low pressure (Max. 75 psi). Repair all cooling system leaks immediately. See "Fig. PM-6: Radiator Inspection" on page 14.
- 4. Inspect the radiator mountings and tighten mounting bolts when necessary.
- Inspect for clearance between fan blades and radiator core and fan shroud, Refer to "Torque Information" in the General Information Section of this manual for applicable torque values.
- Inspect all recirculation seals at baffles around radiator assembly. Seals must be in good condition.
- Repair or replace any defective part. Refer to Section 6 of this manual for procedure.

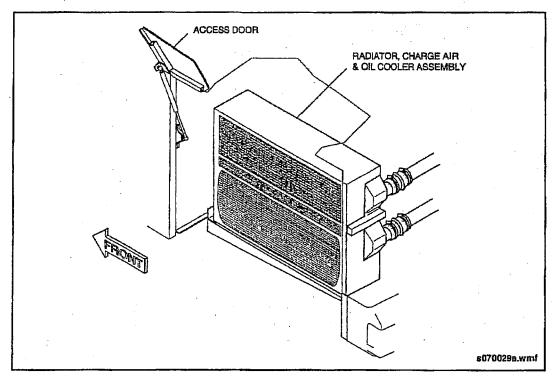


Fig. PM-6: Radiator Inspection

2.10.6. Engine Oil & Filter Change

NOTE:

Engine oil and filter change intervals are based on average vehicle speed. Refer to "Engine Oil Change Intervals" in this section and use whichever interval is the shortest. Oil may be blown out through the crankcase breather if the crankcase is overfilled.

- Run the engine until its operating temperatures reaches 140°F (60°C). Stop the engine.
- Remove the oil drain plug from the bottom of the oil pan. See "Fig. PM-7: Engine Oil Filter" on page 15.
- Allow the oil to drain into a suitable container.
- Clean the area around the oil filter head. Remove the filter and clean the gasket area.

呣 NOTE:

The gasket can stick to the filter head. Ensure it is removed.

- Fill the replacement filter with clean engine oil. Apply a thin film of lubricating oil to the filter gasket and to the gasket sealing surface.
- Install the filter on the engine. Follow the directions on the label for correct installation. Do not over-tighten.
- Clean the engine oil pan drain plug threads. Install the drain plug. Torque the plug on installation 60 ft-lb. (81 Nm).

- Fill the engine with new oil. Refer to "Fluid & Lubrication Guide" in this section for oil specification. Engine capacity is 25.2 quarts U.S. (23.8 liters).
- 9. Start the engine and inspect for leaks at the filter and at the drain plug.
- 10. Stop the engine. Wait 15 minutes to allow the oil to settle. Correct any leaks.
- 11. Check the oil level on the dipstick. Add oil as required to bring the level to the high mark on the dipstick.

P NOTE:

Refer to the Cummins Operation & Maintenance Manual for further engine related preventive maintenance operations.

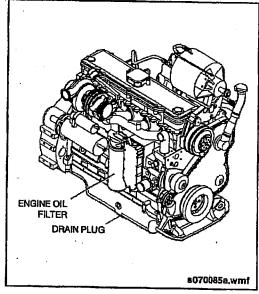


Fig. PM-7: Engine Oil Filter



2.10.6.1.Engine Oil Change intervals

ENGINE OIL CHANGE INTERVALS			
		INTERVAL	
AVERAGE VEHICLE SPEED	Mileage (km)	Operating Hours	Months
10 - 15 mph (16 - 24 km/h)	6,000 (9,600)	500	6
8 - 10 mph (13 - 16 km/h)	5,000 (8,000)	500	6
6 - 8 mph (9.6 - 13 km/h)	4,000 (6,400)	500	6
4 - 6 mph (6.4 - 9.6 km/h)	3,000 (4,800)	500	6
2 - 4 mph (3.2 - 6.4 km/h)	1,500 (2,400)	500	6

2.10.7. Shock Absorber Inspection

Every 6,000 miles (9,600 km) check for and replace all shock absorbers damaged or leaking oil. Check the rubber mounting bushings and replace them if wom. Ensure the shock absorber mounting brackets are tight and the shock absorber is not striking or rubbing the frame or some other part of the chassis.

I NOTE:

A leaking shock will show clear signs of fluid leaking in streams from the upper seal. These streams can most easily be seen when the shock is fully extended and one Inspects as far up the main body of the shock (underneath the dust cover or tube) as possible. Misting shocks are often misdiagnosed as fallures. A misting shock will form a film on the entire outside of the shock body. Misting is perfectly normal and a necessary function of the shock.

2.10.8. Front & Rear Axles & Suspension

 Visually inspect all front and rear suspension components for condition and signs of abnormal wear. Perform torque check of all front and rear suspension components, all steering connections and all other components attaching to the frame from the suspension to ensure no looseness exists. Use a pry bar to check bushings and steering component connections. Refer to "Front Suspension Torque Specifications" and "Rear Suspension Torque Specifications" in Sections 1 & 2 of this manual for all applicable torque values.

2.10.9. Rear Axle Breather Tube

- Check that the breather tube is securely attached to the fitting located on top of the axle housing and is clamped to the streetside suspension support.
- Clean any sludge or debris accumulation from the breather tube outlet and ensure the tube is clear.

2.10.10.Rlde Height

Every 6,000 miles (9,600 km) or after service of air suspension components check the vehicle's ride height. Measure the ride height for the front suspension according to the procedures and specifications in Sections 1 and 2 of this manual.



2.10.11.Air Springs

P NOTE:

The air suspension system requires no lubrication.

- Examine air springs assembly for evidence of cracks, punctures, deterioration, or chaing. Replace with new air springs if any damage is evident. Any surface on upper and lower retainers or on piston that touches air springs should be smooth and free of sharp edges that might cause breaks or damage air springs. Check threads on studs.
- Check for air leakage at all air springs upper and lower mountings. Coat mountings with soap and water solution and watch for appearance of soap bubbles. No leakage is permissible. If leakage is evident, rubber air springs must be replaced.

2.10.12.Air System Functional Tests

Perform "Air System Functional Tests". Refer to Section 8 of this manual for procedures.

2.10.13. Window Emergency Release System

Every 6,000 miles (9,600 km) check and clean the emergency release system of the side windows. The emergency release system must be free of excessive build-up (road salt, dirt and so forth).

2.10.14.Interior & Exterior Access Doors

Every 6,000 miles (9,600 km) lubricate the plano hinges and latch mechanisms. Refer to Sections 12 or 13 of this manual for panel repair procedure.

2.10.15.Roof Vent/Hatch

☐ Inspect the vent/hatch moving parts every 6,000 miles (9,600 km). Make sure the latches close and fasten securely. The latches must fasten securely, with no slack or looseness. If the attaching hardware

cannot be tightened, replace the applicable latch parts using new hardware and fasteners.

- At each vehicle cleaning interval use a mild soap and water solution to clean the vent/hatch surfaces and components. Do not use solvents or petroleum based cleaners or coatings. Do not lubricate its moving parts.
- In cold climates, check daily and remove any accumulated ice and snow that may restrict movement of the vent/hatch.

2.10.16.Splash Guards

- Check splash guards every 6,000 miles (9,600 km) for loose bolts and damage.
- Tighten loose bolts and replace any unserviceable guards.
- Check that ground clearance is within specifications.

2.10.17.Windshield Wiper & Washer

- Check wiper operation and condition.
- O Remove any accumulated dirt and grit from the wiper blade.
- Check that the washer system emits an adequate flow of washer fluid.

2.10.18.Passenger Seats

 Every 6,000 miles (9,600 km) clean the upholstery. Refer to Section 17 of this manual for procedures.

F NOTE:

If removing covers for cleaning, only dry cleaning is recommended since improper washing can cause shrinkage, thereby preventing the covers from being reapplied to the seats without damage.

 Inspect seats for rips or tears. Repair, patch or replace as required.



2.10.19. Wheelchair Restraint Area

- Every 6,000 miles (9,600 km) inspect wheelchair restraint belts for excessive wear. See "Fig. PM-8: Wheelchair Restraint Area" on page 18.
- ☐ Tighten or replace wheelchair restraint area mounting hardware as required.
- Check that all anchors or belts are properly secured and allow proper freedom of movement.
- Floor surface in wheelchair restraint area must be undamaged and free of any condition which would impede use of equipment.
- Check belt wheelchair restraint retractor mechanism operation.
- Check wheelchair restraint area locking or release mechanisms. They must operate smoothly and release completely.

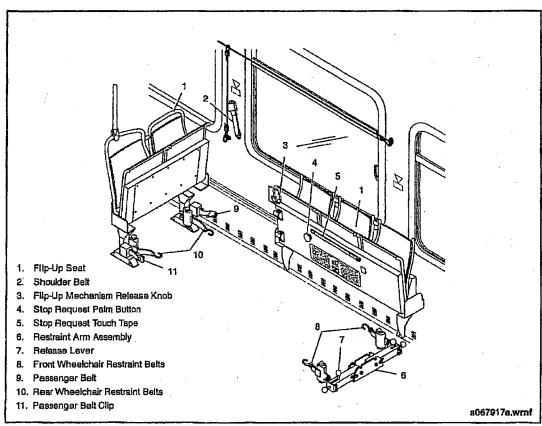


Fig. PM-8: Wheelchair Restraint Area



2.10.20.Exterior Panels

☐ Every 6,000 miles (9,600 km) inspect the sealant and caulking of the exterior panel seams, and wheel-housings. Replace where substance has failed.

A CAUTION:

Use only the type of sealant, caulk or adhesive recommended. Refer to Section 13 of this manual for recommended types. DO NOT use substitutes.

Clean the entire vehicle thoroughly to inspect for paint condition and for metal corrosion damage. Pay particular attention to the lower panels. Repair any areas with paint fallure, or corrosion.

暖 NOTE:

Increase inspection frequency in freezing weather, due to the effect of road deicing materials (salt, calcium chloride, and so forth) on metal.

Protect painted surfaces with a coating of wax immediately after the vehicle has been cleaned.

A CAUTION:

When cleaning the painted surfaces of the vehicle, use a cleaning agent that will not harm the acrylic finish or fiberglass panels. (for example, soap and water).



2.10.21.Battery System

- Check external condition of battery and battery cables. Tighten hold-down nuts to prevent batteries from shaking but not so tight as to strain battery case. See "Fig. PM-9: Battery Tray" on page 20.
- Check the battery cable ends on the battery posts. To ensure good contact, these must be tightened firmly.
- Check for post or cable end corrosion. If corrosion exists disconnect cables from the posts and clean both with soda solution and a wire brush. Install ends and tighten firmly, then coat with petroleum jelly.
 - Check battery for obvious damage such as, cracked case (shows loss of electrolyte), or damaged, cracked, or loose terminal posts.
 - ☐ If damage is noted, replace battery.
 - Check battery state of charge.

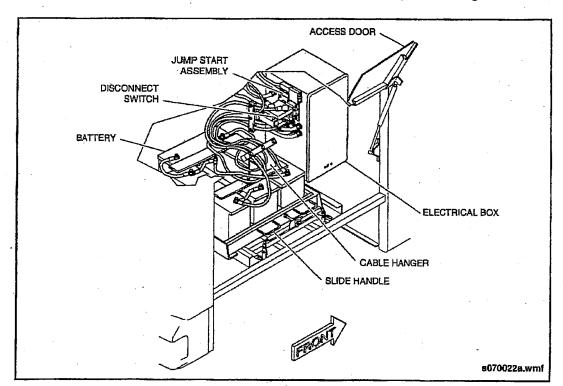


Fig. PM-9: Battery Tray



2.10.22.Wheelchair Ramp Mechanism

- Inspect ramp pump electrical connectors for condition and security. See "Fig. PM-10: Wheelchair Ramp Pump Inspection" on page 21.
- Inspect electrical harmesses and hydrautic hoses for condition and secure attachment.
- Inspect fluid level in reservoir. Top up as required.
- Remove any buildup of dirt or grease and lubricate ramp mechanism assembly moving parts. Apply light lithium base grease to

- the plate in the front and rear brace and the cam plate. Lubricate the shaft splines with NEVER-SEEZ® if required.
- Inspect and tighten mounting hardware as required.
- Ensure stowed limit switch is functioning and is positioned to activate at 8 to 12" from the STOWED position.
- Inspect ramp skid plate for distortions.

F NOTE:

Distortions in the skid plate will cause interference during operation and will require removal and disassembly of the unit. Refer to Section 20 of this manual for procedures.

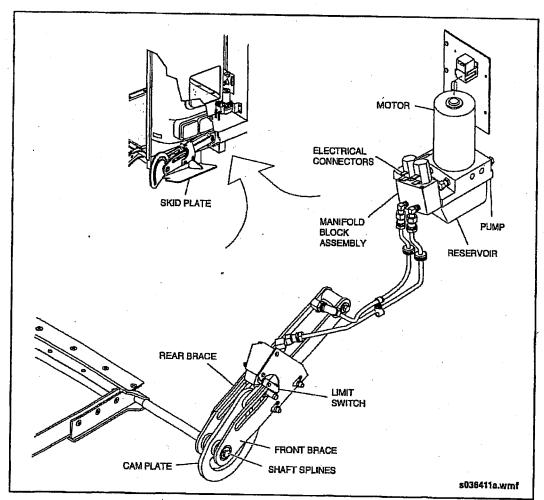


Fig. PM-10: Wheelchair Ramp Pump Inspection



2.10.23.Driver's Heater/Defroster

⚠ CAUTION:

Reposition Battery Disconnect switch to OFF before servicing heater/defroster electrical components to avoid shorts.

- Lubricate and adjust the cables and switch hook-ups. Cable ends and switch hookups can be accessed by opening the defroster access door and removing the defroster cover. See "Fig. PM-11: Defroster Inspection" on page 22.
- Inspect return air filter. Clean or replace as required.

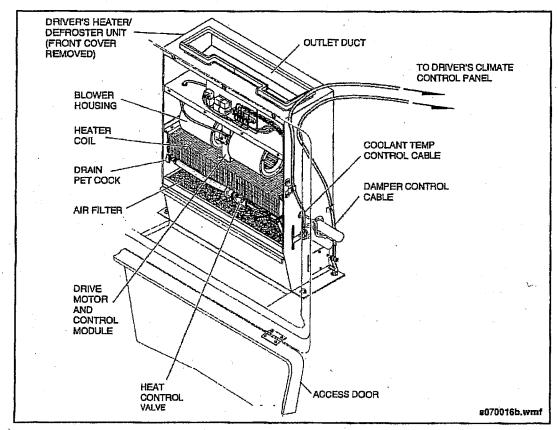


Fig. PM-11: Defroster Inspection



2.10.24.Floor Hesters

- Inspect the unit for damaged or loose components.
- Check coolant hose connections for leak.
- Inspect return air filters. Clean or replace as required.

2.10.25.HVAC Return Air Filter

Inspect air filter. Clean or replace as required. See "Fig. PM-12: HVAC Return Air Filter" on page 23.

2.10.26.Battery Pack Cooling Filter

Every 6,000 miles (9,600 km) inspect the air filter in the rooftop battery pack cooling installation. Clean or replace as required.

2.10.27.Brake Components

Perform inspection. Refer to "Brake Components" in Section 1 and 2 of this manual for procedure.

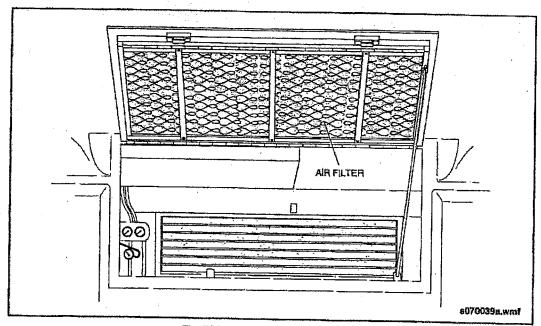


Fig. PM-12: HVAC Return Air Filter



2.11. 12,000 Miles (19,300 km) Preventive Maintenance

2.11.1. Electronic Accelerator

Every 12,000 miles (19,300 km) or 600 operating hours, whichever comes first.

- Check the area around the treadle to ensure that nothing will interfere with treadle operation (mats, discarded material, and so forth). See "Fig. PM-13: Accelerator Inspection" on page 24.
- Check the entire treadle assembly for cleanliness.

- Check the nylon roller on the underside of the pedal and on the transfer lever for freedom of movement.
- Check all pivot points for freedom of movement, excessive wear and corrosion.
- Check all fasteners, fittings and retaining rings to verify that they are all properly installed.
- Actuate the treadie valve by pressing the pedal by hand. The action should be smooth without binding. When the pedal is released, it should return immediately without sticky or sluggish action.
- Excessive wear and corrosion requires the installation of new bushings. Refer to Section 19 of this manual for procedure.

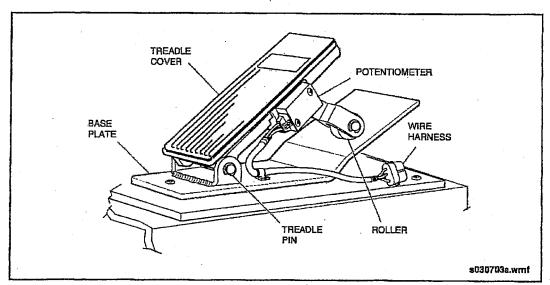


Fig. PM-13: Accelerator Inspection

2.11.2. Alternator inspection

NOTE:

The interval at which this preventive maintenance should be performed may be modified, depending on operating conditions and previous maintenance history.

☐ Every 12,000 miles (19,300 km) or 1000 hours, whichever occurs first, examine the alternator to ensure air passages are clear and free of debris.

↑ CAUTION:

DO NOT use water or chemical solvents to clean the alternator.

Use compressed air to blow out debris from the fan, fan guard, and airways at the drive end. if necessary, remove drive end cover plate and use a soft bristle brush to remove and residual dirt.

NOTE:

Ensure cover is properly reinstalled and screws are torqued to 20 in-lb. (2.3 Nm).

- Inspect the mounting bracket for evidence of cracking or looseness. Check that the mounting boits are properly tightened. Refer to "Alternator" in Section 9 of this manual for torque values.
- Check fan for damage including dents. bent blades, or wobble due to distortion of the fan.
- ☐ Clean, examine, and recoat all connections to protect against corrosion. Ensure that either brass or copper hardware is used on all high current connections. Use a water-resistant dielectric grease or Permatex High-Tack or equivalent to coat the terminals.

2.12. 15,000 Miles (24,000 km) Preventive Maintenance

2.12.1. Coolant Filter Replacement

If it is necessary for any reason to drain the cooling system before an element change, the treated water should be saved and reused. If the treated water is discarded, a new filter element must be installed since

the protective agents in the used filter will have been partially consumed in treating the discarded water. See "Fig. PM-14: Coolant Filter" on page 25.

Replace the element and service the filter and conditioner as follows:

- 1. Close the filter inlet and outlet shut-off valves.
- 2. Remove and discard the element.
- 3. Clean the sealing face on the filter head.
- 4. Apply clean engine oil to the filter element gasket and install the new element. A 1/2 to 3/4 turn after gasket contact assures a positive leakproof seal.
- 5. Open the inlet and outlet lines by opening the shut-off valves.
- 6. Operate the engine and check for leaks. The top of the filter and the outlet line should feel warm to the touch with the rise in coolant temperature, If not, disconnect the filter outlet line at the end opposite the filter connection to bleed the air from the system and reconnect the line. Use caution to minimize coolant loss.

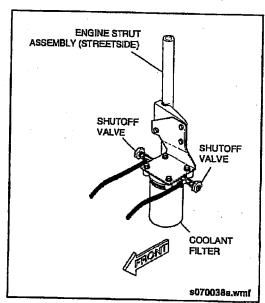


Fig. PM-14: Coolant Filter



2.12.2. Coolant Concentration

Check coolant concentration at this interval. Refer to the Cummins Operation and Maintenance Manual for procedure.

2.12.3. Primary Fuel Filter Replacement

F NOTE:

The fuel filter is a non-serviceable spin-on type. DO NOT attempt to clean and reuse the filter assembly.

- Clean any debris from filter head prior to removal.
- Disconnect the wiring harness from the water-in-fuel sensor.
- Use a filter strap wrench to unscrew the filter assembly from the filter head. Drain fuel from the filter.
- Remove the water-in-fuel sensor from the fuel filter.
- Inspect the water-in-fuel sensor for cracks or other damage.
- Install the water-in-fuel sensor into the new fuel filter.

DO NOT prefill the replacement fuel filter unless a clean fuel source can be guaranteed. Introducing the slightest amount of contamination while prefilling the fuel filter can result in damage to the fuel pump.

- Lubricate the sealing O-ring with clean lubricating oil.
- Install the filter and tighten in accordance with the filter manufacturer's instructions.
- Connect the wiring harness to the water-Infuel sensor.

2.13. 24,000 Miles (38,600 km) Preventive Maintenance

2.13.1. Kneeling Valve

- Check solenoid operation and visually inspect for leaks.
- Disassemble and inspect for wear if leakage is excessive or at every 24,000 miles (38,600 km) or 12 months. Replace the O-rings and gaskets as supplied in rebuild kit. Replace any defective solenoid valves. Refer to Section 8 of this manual for rebuild procedure.

2.13.2. Windshleid Wiper Motors

Lubricate at motor valve every 24,000 miles (38,600 km) with Dow Corning #200® Fluid.

Remove for inspection if performance becomes poor.

2.13.3. Air System & Air Dryer

Every 24,000 miles (38,600 km) or 900 operating hours or every three months check for moisture in the air brake system by opening reservoirs, drain cocks, or valves and checking for presence of water.

The following circumstances may account for the moisture:

- An outside air source has been used to charge the system. This air did not pass through the drying bed.
- Exceptionally high air usage though heavy use of the passenger doors, brakes or kneeling system.
- Exceptionally high air usage because of air system leakage.
- A high range of temperature change during the day causes more condensation than normal.

Under these conditions, the presence of small amounts of moisture is normal and should not be considered as an indication that the dryer is not performing properly.

呣 NOTE:

A small amount of oil in the system may be normal and should not, in itself, be considered a reason to replace the desiccant. Although the air dryer manufacturer does not recommend a specific desiccant cartridge replacement interval, it is good practice to replace the cartridge when the brake tanks produce an excessive amount of moisture. This will be discovered during daily tank drainage. Refer to "Hardex Air Dryer" in Section 8 of this manual for further information on the air dryer.

- Check mounting boits for tightness. See "Fig. PM-15: Air Dryer inspection" on page 27.
- fl Check the operation of the check valve in the end cover of the air dryer.

P NOTE:

Purge valve will be open when governor cutout pressure is reached. Allow two minutes for completion of the purge cycle before testing the check valve.

- Check for excessive leakage at the purge valve.
- Check safety valve operation.
- Check all lines and fittings leading to and from the air dryer for leakage and integrity.

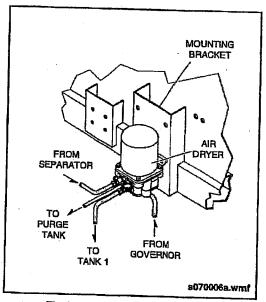


Fig. PM-15: Air Dryer Inspection



2.13.4. Brake Foot Valve

- Every 24,000 miles (38,600 km) or 900 operating hours or every three months remove any accumulated contamination, such as dirt and gravel, from the heel of the treadle, the plunger, the plunger boot and the mounting plate. See "Fig. PM-16: Brake Valve Inspection" on page 28.
- Lubricate the treadle roller, the roller pin, and the hinge pin with barium grease.
- Inspect the plunger boot for cracks, holes or deterioration and replace as required. Check mounting plate and treadle for security, wear and corrosion. Replace as required.
- Apply a thin layer of barium grease between the plunger and the mounting plate. Do not use excessive amounts of oil.
- Perform operation and leakage tests.

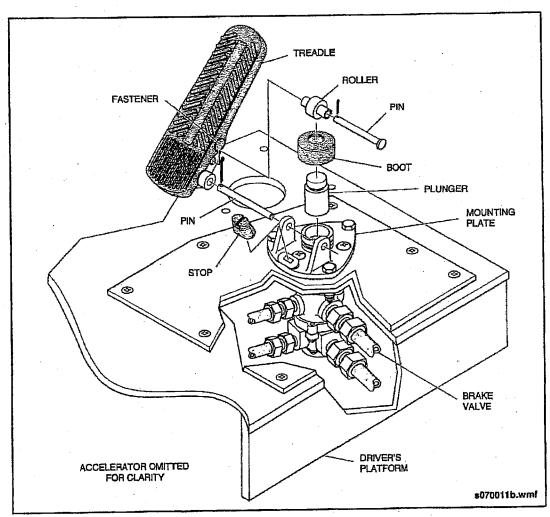


Fig. PM-16: Brake Valve Inspection

2.13.5. Rear Axle Oil Change

Change axle oil at this interval. Refer to "Rear Axle Lubrication Guide" in this section for details of axle components requiring lubrication at this interval.

ICS NOTE:

Both planetaries and the differential housing are drained and filled separately. Refer to "Rear Axle Lubrication Guide" in this section for related maintenance required in this work area at this Interval.

2.13.6. Rear Axie Wheel End Inspection

The internal components of the rear axle wheel ends, including the thrust screw, thrust button, coupling, and thrust washer must be disassembled and inspected at the scheduled oil change interval every 24,000 miles (39,600 Km).

I NOTE:

Disassemble the wheel end sufficiently to allow Inspection of the thrust components. Refer to "Axle Disassembly" in Section 2 of this manual for procedure. The total combined wear of the thrust screw, thrust button, coupling, and thrust washer must not exceed 0.080" (2 mm)

- Inspect and replace thrust button if a recess or groove is worn in the face from contact with the thrust screw. See "Fig. PM-17: Wheel End Inspection" on page 29.
- Inspect slotted end of thrust screw for mushrooming or galling and replace if required.
- Inspect flange on axle shaft coupling for wear. (Slide coupling back on axle shaft for inspection, do not remove it). Flange on new coupling measures 0.24" (6 mm). Replace coupling if any area on flange is worn to a thickness of 0.20" (5 mm) or less.
- Inspect flange area of spindle end thrust washer. Replace thrust washer if it is worn, grooved, or shows signs of galling.

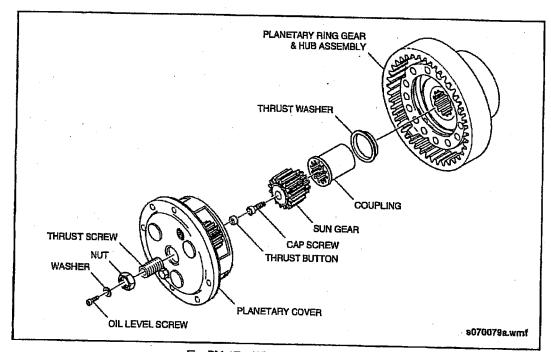


Fig. PM-17: Wheel End Inspection



2.14. 30,000 Miles (48,000 km) Preventive Maintenance

2.14.1. Front Axie Wheel End Oil Change

Refer to "Front Axle Lubrication Guide" in this section for details of axle components requiring lubrication at this interval.

2.14,2, Fuel Tank

Open the drain at the bottom of the fuel tank every 30,000 miles (48,000 km) to drain off any water and/or sediment.

2.14.3. Secondary Fuel Filter Replacement

F NOTE:

The fuel filter is a non-serviceable spin-on type. DO NOT attempt to clean and reuse the filter assembly.

- Clean any debris from filter head prior to removal. See "Fig. PM-18: Engine Fuel Filters" on page 30.
- Use a filter strap wrench to unscrew the filter assembly from the filter head. Discard the filter.

↑ CAUTION:

DO NOT prefill the replacement fuel filter unless a clean filtered fuel source can be guaranteed. Introducing the slightest amount of contamination while prefilling the fuel filter can result in damage to the fuel pump.

- 3. Lubricate the sealing O-ring with clean lubricating oil
- Install the filter and tighten in accordance with the filter manufacturer's instructions.

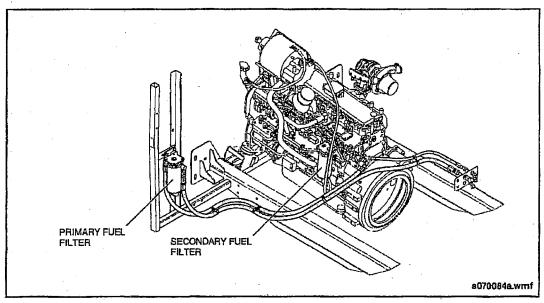


Fig. PM-18: Engine Fuel Filters



2.15. 48,000 Miles (77,200 km) Preventive Maintenance

2.15.1. Front Axle Lubrication

Refer to "Front Axle Lubrication Guide" in this section for details of components requiring lubrication at this interval.

2.15.2. Front End Alignment

Perform "Minor Alignment". Refer to Section 3 of this manual for procedure.

2.15.3. Air Regulator

Every 48,000 miles (77,200 km) or 1,800 operating hours or every six months, check that the regulator operates at its specified rating. Service or replace if defective. Refer to Section 8 of this manual for further information on this component.

2.15.4. Rear Brake Chambers

Inspect rear brake chambers every 48,000 miles (77,200 km). Refer to Section 2 of this manual for inspection procedures.

2.16. 50,000 Miles (80,500 km) Preventive Maintenance

2.16.1. Drive Unit Filter Change

↑ CAUTION:

Fluid and filter change frequency is determined by the severity of drive unit service. More frequent changes may be necessary if the operating conditions create high levels of contamination or overheating. Perform an oil analysis to determine proper change interval if there is any question as to the severity of the drive unit duty cycle. Refer to Allison E^P 40/50 SystemsTM Service Manual for more information on oil analysis.

F NOTE:

Change both external oil filters after first 5,000 miles (8,000 km) and thereafter every 50,000 miles (80,500 km).

Change fluid every 100,000 miles (161,000 km) intervals).

Change internal sump pick-up filter at overhaul,

Refer to Allison E^P 40/50 Systems™ Service Manual for more information on fluid and filter change intervals and fluid contamination.

Change drive unit filters every 50,000 miles (80,500 km). Refer to "5,000 Miles (8,000 km) Preventive Maintenance" in this section for procedure.

2.17. 60,000 Miles (96,000 km) Preventive Maintenance

2.17.1. Fuel Tank

Every 60,000 miles (96,000 km) or twelve months, whichever comes first, tighten all fuel tank mountings and brackets. At the same time, check the seal in the fuel tank cap, the breather hole in the cap and the condition of the flexible fuel lines. Repair or replace the parts as necessary.

2.17.2. Coolant

Change coolant at this interval.

2.18. 96,000 Miles (154,500 km) Preventive Maintenance

2.18.1. Front End Alignment

Perform "Major Alignment". Refer to Section 3 of this manual for procedure.



2.19. 100,000 Miles (161,000 km) Preventive Maintenance

2.19.1. Drive Unit Fluid Change

CAUTION:

Fiuld and filter change frequency is determined by the severity of drive unit service. More frequent changes may be necessary if the operating conditions create high levels of contamination or overheating. Perform an oil analysis to determine proper change interval if there is any question as to the severity of the drive unit duty cycle. Refer to Allison EP 40/50 SystemsTM Service Manual for more information on oil analysis.

MOTE:

Change fluid every 100,000 miles (161,000 km) intervals).

Refer to Allison E^P 40/50 Systems™ Service Manual for more information on fluid and fllter change intervals and fluid contamination.

Change drive unit fluid as follows:

- Park vehicle on a level surface, set drive unit in neutral [N].
- 2. Apply parking brake and chock wheels to ensure vehicle cannot move.

MOTE:

Refer to "Raising the Vehicle" in the General Information Section of this manual for lifting procedures.

- Remove the drain plug at the rear of the oil pan using a 3/8st square drive socket.
- 4. Allow all fluid to drain.

MOTE:

DO NOT drain the fluid when the drive unit is cold, as contaminants will settle below the level of the drain plug. Drain the fluid while tit is still warm and any contaminants are still in suspension.

- Install the drain plug and torque to 18 to 24 ft-lb. (25 to 32 Nm).
- Fill the drive unit with approved fluid. Refer to "Fluid & Lubrication Guide" in this section for fluid specification.

M NOTE:

Drive unit fluid capacity is approximately 16 quarts (15 liters) plus any quantity drained down from the DPIM or oil cooler lines.

- Start engine and run at fast idle. Check for leaks.
- Check the fluid level once the drive unit has reached operating temperature. Refer to "Drive Unit Fluid Level Check" in Section 5 of this manual for procedure. Add or drain fluid as required.

2.20. Six Month Preventive Maintenance

2.20.1. PR-2 Pressure Protection Valve

Perform an operating test and leakage check of the valve at this interval. Refer to Section 8 of this manual for procedure.

2.20.2. ST-1 Safety Valve

Every six months or 1,500 operating hours perform operating and leakage test. Refer to Section 8 of this manual for test procedure.

2,20,3. SR-1 Spring Brake Control Valve

Every six months or 1,500 operating hours perform operating and leakage test. Refer to Section 8 of this manual for test procedure.

2.20.4. DC-4 Double Check Valve

Every six months or 1,500 operating hours perform operating and leakage test. Refer to Section 8 of this manual for test procedure.

2.20.5. Brake Foot Valve

Every six months or 1,500 operating hours perform operating and leakage test. Refer to Section 8 of this manual for test procedure. Check for physical damage such as broken air lines and missing parts.

2.21. Yearly Preventive Maintenance

2.21.1. Door Baseplates

Apply a light coating of SAE #20 oil to the spherical bearings on the ends of the entrance and exit door baseplate connecting rods. See "Fig. PM-19: Door Baseplate Lubrication" on page 33.

Rev. B - 04/03/2008

FORM SFEC-126: NOTIFICATION OF CONTRACT APPROVAL (S.F. Campaign and Governmental Conduct Code § 1.126)

City Elective Officer Information (Please print clearly.)	
Name of City elective officer(s):	City elective office(s) held:
Members, SF Board of Supervisors	Members, SF Board of Supervisors
Contractor Information (Please print clearly.)	
Name of contractor:	
New Flyer of America Inc.	
Please list the names of (1) members of the contractor's boar Larry Edwards, Patricia Jacobsen, John Marinucci, Adam G. (2) the contractor's chief executive officer, chief financial officEO), Glenn Asham (Chief Financial Officer), Wayne Joseph (3) any person who has an ownership of 20 percent or more it (4) any subcontractor listed in the bid or contract; None and (5) any political committee sponsored or controlled by the	ray, William Millar, Paul Soubry icer and chief operating officer; Paul Soubry (President and h (Executive Vice President, Operations) in the contractor; None
Contractor address: Corporate Office: 711 Kernaghan Avenue, Winnipeg Man	nitoba, Canada R2C 3T4
Date that contract was approved:	Amount of contract: Not to Exceed: \$38,348,847
SFMTA: Procurement of 50 Heavy Duty Low Flo Comments:	or Diesel Hybrid Coaches
This contract was approved by (check applicable): the City elective officer(s) identified on this form	
a board on which the City elective officer(s) servesS	San Francisco Board of Supervisors Print Name of Board
☐ the board of a state agency (Health Authority, Housing Board, Parking Authority, Redevelopment Agency Commovelopment Authority) on which an appointee of the Ci	Authority Commission, Industrial Development Authority nission, Relocation Appeals Board, Treasure Island
Print Name of Board	
Filer Information (Please print clearly.)	
Name of filer: Angela Calvillo, Clerk of the Board	Contact telephone number: (415) 554-7723
Address: City Hall, Room 244 1 Dr. Carlton B. Goodlett Pl., San Francisco, CA 94102	E-mail: Board.of.Supervisors@sfgov.org
Signature of City Elective Officer (if submitted by City elective	e officer) Date Signed
Signature of Board Secretary or Clerk (if submitted by Board S	Secretary or Clerk) Date Signed