



City Council Report

915 I Street, 1st Floor
Sacramento, CA 95814

www.cityofsacramento.org

File #: 2016-01343

Consent Item 06

Title: Cooperative Purchase Agreement: Replacement Crane Truck

Recommendation: Pass a Motion 1) approving the use of the Houston-Galveston Area Council (HGAC) cooperative purchase agreement with Houston Freightliner, Inc. (Contract No. HT06-16) for the purchase of one crane truck in an amount not to exceed \$167,427; and 2) authorizing the City Manager or the City Manager's designee to execute the purchase specified above.

Location: Citywide

Contact: Iseña Garcia, Program Specialist, (916) 808-1163; Mark Stevens, Fleet Manager, (916) 808-5869, Department of Public Works

Presenter: None

Department: Public Works

Attachments:

- 1-Description/Analysis
- 2-Agreement

Description/Analysis

Issue Detail: The Department of Public Works (DPW), Fleet Management Division, has a customer requirement to purchase one replacement crane truck for the DPW, Transportation Division. The crane truck will be used to lift, transport, and install street light poles throughout the City.

Policy Considerations: The recommendations in this report are in accordance with City Code Chapter 3.56.

Economic Impacts: None

Environmental Considerations: No environmental review is necessary because the recommendations in this report involve the purchase of a vehicle and are not considered to be a project in accordance with Section 15378(b)(2) of the California Environmental Quality Act guidelines.

Sustainability: The recommended purchase is consistent with the Fleet Sustainability Policy adopted by City Council on February 16, 2010 (Resolution No. 2010-083).

Commission/Committee Action: None

Rationale for Recommendation: After reviewing the available purchase options, Fleet Management has determined that using the cooperative purchase agreement with HGAC and Houston Freightliner, Inc. represents the most advantageous purchasing strategy. The contract was competitively bid, and HGAC receives greater discounts from the manufacturer due to a higher purchase volume than the City would receive if issuing its own bid.

In an ongoing effort to maximize cost savings and staff resources, many government agencies share contracting efforts through cooperative purchasing. This procurement method increases pricing competitiveness and lowers capital costs through volume buying. When comparing the administrative costs of procurement, staff considers product research, source selection, specifications, advertising, staff reports, awarding, protest, and administration of the contract. It is often more cost-effective to eliminate the cost and time spent on these administrative processes and purchase items and services through a cooperative purchasing program.

The City has used both regional and national cooperative purchase agreements to complement its own contracting initiatives. Cooperative purchasing enables City departments to evaluate a broader range of contracting opportunities and to share resources with other

jurisdictions. Cooperative purchasing also leverages internal and external resources to maximize cost savings opportunities for the City.

Financial Considerations: The recommended purchase of one replacement crane truck in an amount not to exceed \$167,427 will be made from the DPW FY2016/17 operating budget (Fleet Fund, Fund 6501) and charged to the DPW multi-year operating project for replacement vehicles and equipment (I06150017, General Fund, Fund 1001). Sufficient funds are available in each of these budgets to make the recommended purchase.

Local Business Enterprise (LBE): Houston Freightliner, Inc. is not an LBE. The minimum LBE participation requirement is waived for the City's use of cooperative purchase agreements that have been competitively bid, evaluated, and awarded by other governmental agencies that may or may not have similar LBE programs.

A CONTRACT BETWEEN
HOUSTON-GALVESTON AREA COUNCIL
 Houston, Texas
 AND
HOUSTON FREIGHTLINER, INC
 Houston, Texas

This Contract is made and entered into by the **Houston-Galveston Area Council of Governments**, hereinafter referred to as **H-GAC**, having its principal place of business at 3555 Timmons Lane, Suite 120, Houston, Texas 77027, AND, **Houston Freightliner, Inc**, hereinafter referred to as the **CONTRACTOR**, having its principal place of business at 9550 North Loop East, Houston, Texas 77039.

ARTICLE 1: **SCOPE OF SERVICES**

The parties have entered into a **Medium and Heavy Trucks & Truck Bodies** Contract to become effective as of June 1, 2016, and to continue through May 31, 2018 (the "**Contract**"), subject to extension upon mutual agreement of the **CONTRACTOR** and **H-GAC**. **H-GAC** enters into the Contract as Agent for participating governmental agencies, each hereinafter referred to as **END USER**, for the purchase of **Medium and Heavy Trucks & Truck Bodies** offered by the **CONTRACTOR**. The **CONTRACTOR** agrees to sell **Medium and Heavy Trucks & Truck Bodies** through the **H-GAC** Contract to **END USERS**.

ARTICLE 2: **THE COMPLETE AGREEMENT**

The Contract shall consist of the documents identified below in order of precedence:

1. The text of this Contract form, including but not limited to, Attachment A
2. General Terms and Conditions
3. Bid Specifications No: **HT06-16**, including any relevant suffixes
4. **CONTRACTOR's** Response to Bid No: **HT06-16**, including but not limited to, prices and options offered

All of which are either attached hereto or incorporated by reference and hereby made a part of this Contract, and shall constitute the complete agreement between the parties hereto. This Contract supersedes any and all oral or written agreements between the parties relating to matters herein. Except as otherwise provided herein, this Contract cannot be modified without the written consent of both parties.

ARTICLE 3: **LEGAL AUTHORITY**

CONTRACTOR and **H-GAC** warrant and represent to each other that they have adequate legal counsel and authority to enter into this Contract. The governing bodies, where applicable, have authorized the signatory officials to enter into this Contract and bind the parties to the terms of this Contract and any subsequent amendments thereto.

ARTICLE 4: **APPLICABLE LAWS**

The parties agree to conduct all activities under this Contract in accordance with all applicable rules, regulations, directives, issuances, ordinances, and laws in effect or promulgated during the term of this Contract.

ARTICLE 5: **INDEPENDENT CONTRACTOR**

The execution of this Contract and the rendering of services prescribed by this Contract do not change the independent status of **H-GAC** or **CONTRACTOR**. No provision of this Contract or act of **H-GAC** in performance of this Contract shall be construed as making **CONTRACTOR** the agent, servant or employee of **H-GAC**, the State of Texas or the United States Government. Employees of **CONTRACTOR** are subject to the exclusive control and supervision of **CONTRACTOR**. **CONTRACTOR** is solely responsible for employee payrolls and claims arising therefrom.

ARTICLE 6: **END USER AGREEMENTS**

H-GAC acknowledges that the **END USER** may choose to enter into an End User Agreement with the **CONTRACTOR** through this Contract and that the term of said Agreement may exceed the term of the **H-GAC** Contract. However this acknowledgement is not to be construed as **H-GAC's** endorsement or approval of the End User Agreement terms and conditions. **CONTRACTOR** agrees not to offer, agree to or accept from **END USER** any terms or conditions that conflict with or contravene those in **CONTRACTOR's H-GAC** contract. Further, termination of this Contract for any reason shall not result in the termination of the underlying End User Agreements entered into between **CONTRACTOR** and any **END USER** which shall, in each instance, continue pursuant to their stated terms and duration. The only effect of termination of this Contract is that **CONTRACTOR** will no longer be able to enter into any new End User Agreements with **END USERS** pursuant to this Contract. Applicable **H-GAC** order processing charges will be due and payable to **H-GAC** on any End User Agreements surviving termination of this Contract between **H-GAC** and **CONTRACTOR**.

ARTICLE 7: SUBCONTRACTS & ASSIGNMENTS

CONTRACTOR agrees not to subcontract, assign, transfer, convey, sublet or otherwise dispose of this Contract or any right, title, obligation or interest it may have therein to any third party without prior written notice to **H-GAC**. **H-GAC** reserves the right to accept or reject any such change. **CONTRACTOR** shall continue to remain responsible for all performance under this Contract regardless of any subcontract or assignment. **H-GAC** shall be liable solely to **CONTRACTOR** and not to any of its Subcontractors or Assignees.

ARTICLE 8: EXAMINATION AND RETENTION OF CONTRACTOR'S RECORDS

CONTRACTOR shall maintain during the course of its work, complete and accurate records of items that are chargeable to **END USER** under this Contract. **H-GAC**, through its staff or its designated public accounting firm, the State of Texas, or the United States Government shall have the right at any reasonable time to inspect copy and audit those records on or off the premises of **CONTRACTOR**. Failure to provide access to records may be cause for termination of this Contract. **CONTRACTOR** shall maintain all records pertinent to this Contract for a period of not less than five (5) calendar years from the date of acceptance of the final contract closeout and until any outstanding litigation, audit or claim has been resolved. The right of access to records is not limited to the required retention period, but shall last as long as the records are retained. **CONTRACTOR** further agrees to include in all subcontracts under this Contract, a provision to the effect that the subcontractor agrees that **H-GAC'S** duly authorized representatives, shall, until the expiration of five (5) calendar years after final payment under the subcontract or until all audit findings have been resolved, have access to, and the right to examine and copy any directly pertinent books, documents, papers, invoices and records of such subcontractor involving any transaction relating to the subcontract.

ARTICLE 9: REPORTING REQUIREMENTS

CONTRACTOR agrees to submit reports or other documentation in accordance with the General Terms and Conditions of the Bid Specifications. If **CONTRACTOR** fails to submit to **H-GAC** in a timely and satisfactory manner any such report or documentation, or otherwise fails to satisfactorily render performance hereunder, such failure may be considered cause for termination of this Contract.

ARTICLE 10: MOST FAVORED CUSTOMER CLAUSE

If **CONTRACTOR**, at any time during this Contract, routinely enters into agreements with other governmental customers within the State of Texas, and offers the same or substantially the same products/services offered to **H-GAC** on a basis that provides prices, warranties, benefits, and or terms more favorable than those provided to **H-GAC**, **CONTRACTOR** shall notify **H-GAC** within ten (10) business days thereafter of that offering and this Contract shall be deemed to be automatically amended effective retroactively to the effective date of the most favorable contract, wherein **CONTRACTOR** shall provide the same prices, warranties, benefits, or terms to **H-GAC** and its **END USER**. **H-GAC** shall have the right and option at any time to decline to accept any such change, in which case the amendment shall be deemed null and void. If **CONTRACTOR** is of the opinion that any apparently more favorable price, warranty, benefit, or term charged and/or offered a customer during the term of this Contract is not in fact most favored treatment, **CONTRACTOR** shall within ten (10) business days notify **H-GAC** in writing, setting forth the detailed reasons **CONTRACTOR** believes aforesaid offer which has been deemed to be a most favored treatment, is not in fact most favored treatment. **H-GAC**, after due consideration of such written explanation, may decline to accept such explanation and thereupon this Contract between **H-GAC** and **CONTRACTOR** shall be automatically amended, effective retroactively, to the effective date of the most favored agreement, to provide the same prices, warranties, benefits, or terms to **H-GAC**.

The Parties accept the following definition of routine: A prescribed, detailed course of action to be followed regularly; a standard procedure. **EXCEPTION: This clause shall not be applicable to prices and price adjustments offered by a bidder, proposer or contractor, which are not within bidder's/ proposer's control [example; a manufacturer's bid concession], or to any prices offered to the Federal Government and its agencies.**

ARTICLE 11: SEVERABILITY

All parties agree that should any provision of this Contract be determined to be invalid or unenforceable, such determination shall not affect any other term of this Contract, which shall continue in full force and effect.

ARTICLE 12: DISPUTES

Any and all disputes concerning questions of fact or of law arising under this Contract, which are not disposed of by agreement, shall be decided by the Executive Director of **H-GAC** or his designee, who shall reduce his decision to writing and provide notice thereof to **CONTRACTOR**. The decision of the Executive Director or his designee shall be final and conclusive unless, within thirty (30) days from the date of receipt of such notice, **CONTRACTOR** requests a rehearing from the Executive Director of **H-GAC**. In connection with any rehearing under this Article, **CONTRACTOR** shall be afforded an opportunity to be heard and offer evidence in support of its position. The decision of the Executive Director after any such rehearing shall be final and conclusive. **CONTRACTOR** may, if it elects to do so, appeal the final and conclusive decision of the Executive Director to a court of competent jurisdiction. Pending final decision of a dispute hereunder, **CONTRACTOR** shall proceed diligently with the performance of this Contract and in accordance with **H-GAC'S** final decision.

ARTICLE 13: LIMITATION OF CONTRACTOR'S LIABILITY

Except as specified in any separate writing between the **CONTRACTOR** and an **END USER**, **CONTRACTOR's** total liability under this Contract, whether for breach of contract, warranty, negligence, strict liability, in tort or otherwise, but excluding its obligation to indemnify **H-GAC** described in Article 14, is limited to the price of the particular products/services sold hereunder, and **CONTRACTOR** agrees either to refund the purchase price or to repair or replace product(s) that are not as warranted. In no event will **CONTRACTOR** be liable for any loss of use, loss of time, inconvenience, commercial loss, lost profits or savings or other incidental, special or consequential damages to the full extent such use may be disclaimed by law. **CONTRACTOR** understands and agrees that it shall be liable to repay and shall repay upon demand to **END USER** any amounts determined by **H-GAC**, its independent auditors, or any agency of State or Federal government to have been paid in violation of the terms of this Contract.

ARTICLE 14: LIMIT OF H-GAC'S LIABILITY AND INDEMNIFICATION OF H-GAC

H-GAC's liability under this Contract, whether for breach of contract, warranty, negligence, strict liability, in tort or otherwise, is limited to its order processing charge. In no event will **H-GAC** be liable for any loss of use, loss of time, inconvenience, commercial loss, lost profits or savings or other incidental, special or consequential damages to the full extent such use may be disclaimed by law. Contractor agrees, to the extent permitted by law, to defend and hold harmless **H-GAC**, its board members, officers, agents, officials, employees, and indemnities from any and all claims, costs, expenses (including reasonable attorney fees), actions, causes of action, judgments, and liens arising as a result of **CONTRACTOR's** negligent act or omission under this Contract. **CONTRACTOR** shall notify **H-GAC** of the threat of lawsuit or of any actual suit filed against **CONTRACTOR** relating to this Contract.

ARTICLE 15: TERMINATION FOR CAUSE

H-GAC may terminate this Contract for cause based upon the failure of **CONTRACTOR** to comply with the terms and/or conditions of the Contract; provided that **H-GAC** shall give **CONTRACTOR** written notice specifying **CONTRACTOR'S** failure. If within thirty (30) days after receipt of such notice, **CONTRACTOR** shall not have either corrected such failure, or thereafter proceeded diligently to complete such correction, then **H-GAC** may, at its option, place **CONTRACTOR** in default and the Contract shall terminate on the date specified in such notice. **CONTRACTOR** shall pay to **H-GAC** any order processing charges due from **CONTRACTOR** on that portion of the Contract actually performed by **CONTRACTOR** and for which compensation was received by **CONTRACTOR**.

ARTICLE 16: TERMINATION FOR CONVENIENCE

Either **H-GAC** or **CONTRACTOR** may cancel or terminate this Contract at any time by giving thirty (30) days written notice to the other. **CONTRACTOR** may be entitled to payment from **END USER** for services actually performed; to the extent said services are satisfactory to **END USER**. **CONTRACTOR** shall pay to **H-GAC** any order processing charges due from **CONTRACTOR** on that portion of the Contract actually performed by **CONTRACTOR** and for which compensation is received by **CONTRACTOR**.

ARTICLE 17: CIVIL AND CRIMINAL PROVISIONS AND SANCTIONS

CONTRACTOR agrees that it will perform under this Contract in conformance with safeguards against fraud and abuse as set forth by **H-GAC**, the State of Texas and the acts and regulations of any funding entity. **CONTRACTOR** agrees to notify **H-GAC** of any suspected fraud, abuse or other criminal activity related to this Contract through filing of a written report promptly after it becomes aware of such activity.

ARTICLE 18: GOVERNING LAW & VENUE

This Contract shall be governed by the laws of the State of Texas. Venue and jurisdiction of any suit or cause of action arising under or in connection with this Contract shall lie exclusively in Harris County, Texas. Disputes between **END USER** and **CONTRACTOR** are to be resolved in accord with the law and venue rules of the state of purchase. **CONTRACTOR** shall immediately notify **H-GAC** of such disputes.

ARTICLE 19: PAYMENT OF H-GAC ORDER PROCESSING CHARGE

CONTRACTOR agrees to sell its products to **END USERS** based on the pricing and other terms of this Contract, including, but not limited to, the payment of the applicable **H-GAC** order processing charge. On notification from an **END USER** that an order has been placed with **CONTRACTOR**, **H-GAC** will invoice **CONTRACTOR** for the applicable order processing charge. Upon delivery of any product/service by **CONTRACTOR** and acceptance by **END USER**, **CONTRACTOR** shall, within thirty (30) calendar days or ten (10) business days after receipt of payment, whichever is less, pay **H-GAC** the full amount of the applicable order processing charge, whether or not **CONTRACTOR** has received an invoice from **H-GAC**. For sales made by **CONTRACTOR** based on this contract, including sales to entities without Interlocal Contracts, **CONTRACTOR** shall pay the applicable order processing charges to **H-GAC**. Further, **CONTRACTOR** agrees to encourage entities who are not members of **H-GAC's** Cooperative Purchasing Program to execute an **H-GAC** Interlocal Contract. **H-GAC** reserves the right to take appropriate actions including, but not limited to, contract termination if **CONTRACTOR** fails to promptly remit **H-GAC's** order processing charge. In no event shall **H-GAC** have any liability to **CONTRACTOR** for any goods or services an **END USER** procures from **CONTRACTOR**.

ARTICLE 20:

LIQUIDATED DAMAGES

Any liquidated damages terms will be determined between CONTRACTOR and END USER at the time END USER's purchase order is placed.

ARTICLE 21:

PERFORMANCE AND PAYMENT BOND FOR INDIVIDUAL ORDERS

H-GAC's contractual requirements DO NOT include a Performance & Payment Bond (PPB), and offered pricing should reflect this cost saving. However, CONTRACTOR must be prepared to offer a PPB to cover any specific order if so requested by END USER. CONTRACTOR shall quote a price to END USER for provision of any requested PPB, and agrees to furnish the PPB within ten business (10) days of receipt of END USER's purchase order.

ARTICLE 22:

CHANGE OF CONTRACTOR STATUS

CONTRACTOR shall immediately notify H-GAC, in writing, of ANY change in ownership, control, dealership/franchisee status, Motor Vehicle license status, or name, and shall also advise whether or not this Contract shall be affected in any way by such change. H-GAC shall have the right to determine whether or not such change is acceptable, and to determine what action shall be warranted, up to and including cancellation of Contract.

ARTICLE 23:

LICENSING REQUIRED BY TEXAS MOTOR VEHICLE BOARD [IF APPLICABLE]

CONTRACTOR will, for the duration of this Contract, maintain current licenses that are required by the Texas Motor Vehicle Commission Code. If at any time during this Contract period, any CONTRACTOR'S license is not renewed, or is denied or revoked, CONTRACTOR shall be deemed to be in default of this Contract unless the Motor Vehicle Board issues a stay or waiver. Contractor shall promptly provide copies of all current applicable Texas Motor Vehicle Board documentation to H-GAC upon request.

IN WITNESS WHEREOF, the parties have caused this Contract to be executed by their duly authorized representatives.

Signed for Houston-Galveston
Area Council, Houston, Texas:



Jack Steele, Executive Director

Attest for Houston-Galveston
Area Council, Houston, Texas:



Deidre Vitek, Director of Public Services

Date: May 26, 2016

Signed for Houston Freightliner, Inc
Houston, Texas:



Printed Name & Title: Bob Garwood President

Date: 5-19, 2016

Attest for Houston Freightliner, Inc
Houston, Texas:



Printed Name & Title: Michael McCarty Account Manager

Date: 5-19, 2016

Attachment A
Houston Freightliner, Inc
Medium and Heavy Trucks & Truck Bodies
Contract No.: HT06-16

MFGR	HGAC PRODUCT CODE	MODEL	BASE PRICE
Freightliner	D1	108SD-70, Conv. Cab, SBFA, SRA	\$63,924
Freightliner	D2	108SD-80, Conv. Cab, SBFA, TRA	\$73,872
Freightliner	D3	114SD, Conv. Cab, SFFA, SRA	\$77,539
Freightliner	D4	122SD, Conv Cab, SFFA, TRA	\$91,973
Freightliner	D5	M2-106-60, Conv. Cab, SBFA, SRA	\$57,272
Freightliner	D6	M2-106-70, Conv. Cab, SBFA, SRA	\$59,658
Freightliner	D7	M2-106-80, Conv. Cab, SBFA, TRA:	\$69,353
Freightliner	D8	M2-112, Conv. Cab, SBFA, TRA	\$74,735
Freightliner	D9	Cascadia CA113-DC, Conv Cab Tractor, SBFA, TRA	\$89,634



CONTRACT PRICING WORKSHEET
For MOTOR VEHICLES Only

Contract No.:

HT06-16

Date Prepared:

10/18/2016

This Worksheet is prepared by Contractor and given to End User. If a PO is issued, both documents MUST be faxed to H-GAC @ 713-993-4548. Therefore please type or print legibly.

Buying Agency:	City of Sacramento	Contractor:	Houston Freightliner, Inc
Contact Person:	Mark Stevens	Prepared By:	Michael McCarthy
Phone:	916-808-5869	Phone:	713-580-8122
Fax:		Fax:	713-676-1603
Email:	Mstevens@cityofsacramento.org	Email:	Mike.McCarthy@STRHouston.com

Product Code:	D6	Description:	2017 Freightliner M2-106-70
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A. Product Item Base Unit Price Per Contractor's H-GAC Contract: 59658

B. Published Options - Itemize below - Attach additional sheet(s) if necessary - Include Option Code in description if applicable.
(Note: Published Options are options which were submitted and priced in Contractor's bid.)

Description	Cost	Description	Cost
218" Wheelbase	812		
Allison 2500 RDS Automatic Transmission	2661		
Air Conditioner	850		
LH/RH Electric Power Windows	147		
LH/RH Power Door Locks	71		
AM/FM Radio	225	Special Terex BT2047 Crane	74004
Adjustable Steering Column	376	Special Cooks Equipment 16' Flatbed	9975
Cummins ISL 260 HP	1983		
Air Driver Seat	165		
2 Man Passenger Seat	178		
Subtotal From Additional Sheet(s):			
			Subtotal B: 91447

C. Unpublished Options - Itemize below / attach additional sheet(s) if necessary.
(Note: Unpublished options are items which were not submitted and priced in Contractor's bid.)

Description	Cost	Description	Cost
Subtotal From Additional Sheet(s):			
			Subtotal C: 0

Check: Total cost of Unpublished Options (C) cannot exceed 25% of the total of the Base Unit Price plus Published Options (A+B). **For this transaction the percentage is:** 0%

D. Total Cost Before Any Applicable Trade-In / Other Allowances / Discounts (A+B+C)

Quantity Ordered:	1	X Subtotal of A + B + C:	151105	=	Subtotal D:	151105
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E. H-GAC Order Processing Charge (Amount Per Current Policy) **Subtotal E:** 1000

F. Trade-Ins / Special Discounts / Other Allowances / Freight / Installation / Miscellaneous Charges

Description	Cost	Description	Cost
Freight	2478		
California State Sales Tax	12843.93		
Subtotal F:			15321.93

Delivery Date: 9/1/2016 **G. Total Purchase Price (D+E+F):** 167426.93

Prepared for:
Mark Stevens
City of Sacramento
5730 24th Street
Sacramento, CA 95822
Phone: 916-808-5869

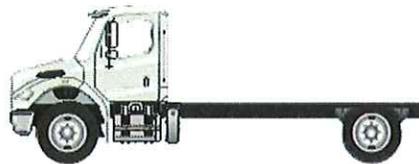
Prepared by:
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A proposal for
City of Sacramento

Prepared by
HOUSTON FREIGHTLINER, WESTERN STAR
Michael McCarthy

Sep 15, 2016

Freightliner M2 106



Components shown may not reflect all spec'd options and are not to scale

Application Version 9.0.007
Data Version PRL-14M.041
Sacramento Chipper Truck



09/15/2016 8:02 PM

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S P E C I F I C A T I O N P R O P O S A L

Data Code	Description	Weight Front	Weight Rear
Price Level			
PRL-14M	M2 PRL-14M (EFF:10/05/15)		
Data Version			
DRL-041	SPECPRO21 DATA RELEASE VER 041		
Vehicle Configuration			
001-172	M2 106 CONVENTIONAL CHASSIS	5,759	3,503
004-217	2017 MODEL YEAR SPECIFIED		
002-004	SET BACK AXLE - TRUCK		
019-001	TRAILER TOWING PROVISION AT END OF FRAME FOR TRUCK	10	10
003-001	LH PRIMARY STEERING LOCATION		
General Service			
AA1-003	TRUCK/TRAILER CONFIGURATION		
AA6-002	DOMICILED, USA (EXCLUDING CALIFORNIA AND CARB OPT-IN STATES)		
A85-010	UTILITY/REPAIR/MAINTENANCE SERVICE		
A84-1GM	GOVERNMENT BUSINESS SEGMENT		
AA4-011	FIXED LOAD COMMODITY		
AA5-002	TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS		
AB1-008	MAXIMUM 8% EXPECTED GRADE		
AB5-001	SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE		
995-091	MEDIUM TRUCK WARRANTY		
A66-99D	EXPECTED FRONT AXLE(S) LOAD : 8000.0 lbs		
A68-99D	EXPECTED REAR DRIVE AXLE(S) LOAD : 18000.0 lbs		
A63-99D	EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 26000.0 lbs		



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Data Code	Description	Weight Front	Weight Rear
A70-99D	EXPECTED GROSS COMBINATION WEIGHT : 0.0 lbs		
Truck Service			
AA3-030	FLATBED/PLATFORM BODY WITH LIFT/PULL DEVICE		
A88-99D	EXPECTED TRUCK BODY LENGTH : 0.0 ft		
RTK-1AA	APPROVAL TO SHARE SPEC WITH TEM		
AF7-99D	EXPECTED BODY/PAYLOAD CG HEIGHT ABOVE FRAME "XX" INCHES : 32.0 in		
Tractor Service			
AA2-001	VAN TRAILER		
AH6-001	SINGLE (1) TRAILER		
Engine			
101-2RJ	CUM ISB 6.7-260 260 HP @ 2300 RPM, 2600 GOV, 660 LB/FT @ 1600 RPM		
Electronic Parameters			
79A-065	65 MPH ROAD SPEED LIMIT		
79B-000	CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT		
79G-104	5 MINUTE IDLE SHUTDOWN - TIMER RESET WITH CLUTCH AND SERVICE BRAKE		
79K-007	PTO MODE ENGINE RPM LIMIT - 1100 RPM		
79P-002	PTO RPM WITH CRUISE SET SWITCH - 700 RPM		
79Q-003	PTO RPM WITH CRUISE RESUME SWITCH - 800 RPM		
79S-001	PTO MODE CANCEL VEHICLE SPEED - 5 MPH		
79U-007	PTO GOVERNOR RAMP RATE - 250 RPM PER SECOND		
80G-002	PTO MINIMUM RPM - 700		
80J-002	REGEN INHIBIT SPEED THRESHOLD - 5 MPH		
Engine Equipment			
99C-016	2016 ONBOARD DIAGNOSTICS/2010 EPA/CARB/GHG17 BUT NOT FINAL GHG17 CONFIGURATION		
99D-009	2008 CARB EMISSION CERTIFICATION - CLEAN IDLE (INCLUDES 6X4 INCH LABEL ON LEFT SIDE OF HOOD)		
13E-001	STANDARD OIL PAN		
105-001	ENGINE MOUNTED OIL CHECK AND FILL		



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 E-Mail:
 mmccarthy@strhouston.com

Data Code	Description	Weight Front	Weight Rear
133-004	ONE PIECE VALVE COVER		
014-099	SIDE OF HOOD AIR INTAKE WITH FIREWALL MOUNTED DONALDSON AIR CLEANER		
124-1D7	DR 12V 160 AMP 28-SI QUADRAMOUNT PAD ALTERNATOR WITH REMOTE BATTERY VOLT SENSE		
292-098	(2) ALLIANCE MODEL 1231, GROUP 31, 12 VOLT MAINTENANCE FREE 2250 CCA THREADED STUD BATTERIES		
290-017	BATTERY BOX FRAME MOUNTED		
281-001	STANDARD BATTERY JUMPERS		
282-001	SINGLE BATTERY BOX FRAME MOUNTED LH SIDE UNDER CAB		
291-017	WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN		
289-001	NON-POLISHED BATTERY BOX COVER		
152-041	ELECTRONIC ENGINE INTEGRAL SHUTDOWN PROTECTION SYSTEM		
016-1C3	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH HORIZONTAL TAILPIPE		
28F-002	ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND DASH MOUNTED REGENERATION REQUEST SWITCH		
239-001	STANDARD EXHAUST SYSTEM LENGTH		
237-052	RH STANDARD HORIZONTAL TAILPIPE		
23U-001	6 GALLON DIESEL EXHAUST FLUID TANK		
30N-003	100 PERCENT DIESEL EXHAUST FLUID FILL		
43X-002	LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION		
23Y-001	STANDARD DIESEL EXHAUST FLUID PUMP MOUNTING		
43Y-001	STANDARD DIESEL EXHAUST FLUID TANK CAP		
273-004	BORG WARNER VISCOUS FAN DRIVE		
110-003	CUMMINS SPIN ON FUEL FILTER		
118-001	FULL FLOW OIL FILTER		
266-078	950 SQUARE INCH ALUMINUM RADIATOR		
103-036	ANTIFREEZE TO -34F, ETHYLENE GLYCOL PRE-CHARGED SCA HEAVY DUTY COOLANT		
171-007	GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT		



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Data Code	Description	Weight Front	Weight Rear
172-001	CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES		
270-016	RADIATOR DRAIN VALVE		
168-002	LOWER RADIATOR GUARD		
134-001	ALUMINUM FLYWHEEL HOUSING		
132-004	ELECTRIC GRID AIR INTAKE WARMER		
155-058	DELCO 12V 38MT HD STARTER WITH INTEGRATED MAGNETIC SWITCH		

Transmission

342-1MN	ALLISON 2500 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION		
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Transmission Equipment

343-301	ALLISON VOCATIONAL PACKAGE 354 - AVAILABLE ON 1000/2000 PRODUCT FAMILIES WITH VOCATIONAL MODELS RDS, EVS, HS, MH, PTS AND SPS		
84B-012	ALLISON VOCATIONAL RATING FOR ON/OFF HIGHWAY APPLICATIONS AVAILABLE WITH ALL PRODUCT FAMILIES		
84C-003	PRIMARY MODE GEARS, 5 FORWARD GEARS WITH MANUAL SELECTION FOR 3, 2 AND 1, AVAILABLE FOR 1000/2000 PRODUCT FAMILIES ONLY		
84E-000	PRIMARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE		
84F-000	ENHANCED CONVERTER LOAD RELEASE - DISABLED, AVAILABLE FOR ALL PRODUCT FAMILIES ONLY		
84G-000	PRIMARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE		
84H-000	SECONDARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE		
84L-000	LOAD BASED SHIFT SCHEDULE AND VEHICLE ACCELERATION CONTROL RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED VOCATIONAL USAGE		
84N-000	NEUTRAL AT STOP - DISABLED, FUELSense - DISABLED		
84U-000	DRIVER SWITCH INPUT - DEFAULT - NO SWITCHES		



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Data Code	Description	Weight Front	Weight Rear
353-022	VEHICLE INTERFACE WIRING CONNECTOR WITHOUT BLUNT CUTS, AT BACK OF CAB		
34C-001	ELECTRONIC TRANSMISSION CUSTOMER ACCESS CONNECTOR FIREWALL MOUNTED		
362-1BV	CUSTOMER INSTALLED CHELSEA 270 SERIES PTO		
363-001	PTO MOUNTING, LH SIDE OF MAIN TRANSMISSION		
341-018	MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN		
345-072	DASH MOUNTED T-HANDLE CABLE SHIFT CONTROL WITHOUT PARK BRAKE POSITION		
97G-006	TRANSMISSION PROGNOSTICS - DISABLED (N/A) 2013, FOR USE IN 1000/2000 ONLY		
370-015	WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK		
346-001	TRANSMISSION OIL CHECK AND FILL		
35T-001	SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)		

Front Axle and Equipment

400-1EW	DETROIT DA-F-8.0-3 8,000# FF1 71.5 KPI/3.74 DROP SINGLE FRONT AXLE
402-054	BOSCH HYDRAULIC PIN-SLIDE DISC FRONT BRAKES
403-002	NON-ASBESTOS FRONT BRAKE LINING
419-004	FRONT DISC BRAKE ROTORS
409-006	FRONT OIL SEALS
408-001	VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL
416-022	STANDARD SPINDLE NUTS FOR ALL AXLES
536-050	TRW THP-60 POWER STEERING
539-003	POWER STEERING PUMP
534-015	2 QUART SEE THROUGH POWER STEERING RESERVOIR
40T-002	SYNTHETIC 75W-90 FRONT AXLE LUBE

Front Suspension

620-062	10,000# TAPERLEAF FRONT SUSPENSION
619-005	MAINTENANCE FREE RUBBER BUSHINGS - FRONT SUSPENSION



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Data Code	Description	Weight Front	Weight Rear
62H-998	NO FRONT SUSPENSION SPRING BRACKET OPTIONS		
410-001	FRONT SHOCK ABSORBERS		
Rear Axle and Equipment			
420-1C5	DETROIT DA-RS-19.0-4 19,000# L-SERIES SINGLE REAR AXLE		-30
421-588	5.88 REAR AXLE RATIO		
424-001	IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING		
386-073	MXL 17T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES		
423-054	BOSCH HYDRAULIC PIN-SLIDE DISC REAR BRAKES		
433-002	NON-ASBESTOS REAR BRAKE LINING		
451-005	REAR DISC BRAKE ROTORS		
440-021	SKF SCOTSEAL PLUS XL REAR OIL SEALS		
435-002	REAR AXLE MOUNTED DRUM PARK BRAKE		
41T-002	SYNTHETIC 75W-90 REAR AXLE LUBE		
Rear Suspension			
622-1ME	18,000# 52 INCH VARIABLE RATE MULTI-LEAF SPRING REAR SUSPENSION WITH LEAF SPRING HELPER		90
621-001	SPRING SUSPENSION - NO AXLE SPACERS		
431-001	STANDARD AXLE SEATS IN AXLE CLAMP GROUP		
Brake System			
018-001	HYDRAULIC BRAKE PACKAGE	-80	-140
490-032	WABCO HYDRAULIC 4S/4M ABS WITHOUT TRACTION CONTROL		
871-005	HYDRAULIC CHASSIS TUBING		
904-998	NO CHASSIS AIR LINES, PARK BRAKES		
480-998	NO BRAKE LINE AIR DRYER	-20	
Trailer Connections			
914-001	AIR CONNECTIONS TO END OF FRAME WITH GLAD HANDS FOR TRUCK AND NO DUST COVERS		
296-010	PRIMARY CONNECTOR/RECEPTACLE WIRED FOR SEPARATE STOP/TURN, ABS CENTER PIN POWERED THROUGH IGNITION		



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Data Code	Description	Weight Front	Weight Rear
297-001	SAE J560 7-WAY PRIMARY TRAILER CABLE RECEPTACLE MOUNTED END OF FRAME		
335-004	UPGRADED CHASSIS MULTIPLEXING UNIT		
32A-002	UPGRADED BULKHEAD MULTIPLEXING UNIT		
30L-998	NO HIGH CURRENT TRAILER/BODY CABLE		
Wheelbase & Frame			
545-487	4875MM (192 INCH) WHEELBASE		
546-100	11/32X3-1/2X10-3/16 INCH STEEL FRAME (8.73MMX258.8MM/0.344X10.19 INCH) 120KSI	100	90
552-071	2800MM (110 INCH) REAR FRAME OVERHANG		
55W-010	FRAME OVERHANG RANGE: 101 INCH TO 110 INCH	-60	260
AC8-99D	CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 126.45 in		
AE8-99D	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 123.45 in		
AE4-99D	CALC'D FRAME LENGTH - OVERALL : 331.39		
AM6-99D	CALC'D SPACE AVAILABLE FOR DECKPLATE : 126.45 in		
FSS-0LH	CALCULATED FRAME SPACE LH SIDE : 116.98 in		
FSS-0RH	CALCULATED FRAME SPACE RH SIDE : 135.36 in		
553-001	SQUARE END OF FRAME		
550-001	FRONT CLOSING CROSSMEMBER		
559-001	STANDARD WEIGHT ENGINE CROSSMEMBER		
562-001	STANDARD MIDSHIP #1 CROSSMEMBER(S)		
572-001	STANDARD REAR MOST CROSSMEMBER		
565-001	STANDARD SUSPENSION CROSSMEMBER		
Chassis Equipment			
556-1AP	THREE-PIECE 14 INCH PAINTED STEEL BUMPER WITH COLLAPSIBLE ENDS	30	
558-001	FRONT TOW HOOKS - FRAME MOUNTED	15	
574-001	BUMPER MOUNTING FOR SINGLE LICENSE PLATE		
586-024	FENDER AND FRONT OF HOOD MOUNTED FRONT MUDFLAPS		
551-007	GRADE 8 THREADED HEX HEADED FRAME FASTENERS		
Fuel Tanks			



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Data Code	Description	Weight Front	Weight Rear
204-215	50 GALLON/189 LITER SHORT RECTANGULAR ALUMINUM FUEL TANK - LH	20	
218-005	RECTANGULAR FUEL TANK(S)		
215-005	PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH PAINTED BANDS		
212-007	FUEL TANK(S) FORWARD		
664-001	PLAIN STEP FINISH		
205-001	FUEL TANK CAP(S)		
122-084	ALLIANCE FUEL FILTER/WATER SEPARATOR WITH PRIMER PUMP		
216-020	EQUIFLO INBOARD FUEL SYSTEM		
202-016	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE		
Tires			
093-1P2	CONTINENTAL HSL2 11R22.5 14 PLY RADIAL FRONT TIRES	8	
094-2F6	CONTINENTAL HDR2 11R22.5 14 PLY RADIAL REAR TIRES		92
Hubs			
418-045	CONMET PRESET IRON FRONT HUBS		
450-045	CONMET PRESET IRON REAR HUBS		
Wheels			
502-428	ACCURIDE 28828 22.5X8.25 10-HUB PILOT 6.18 INSET 2-HAND HD STEEL DISC FRONT WHEELS	26	
505-428	ACCURIDE 28828 22.5X8.25 10-HUB PILOT 2-HAND HD STEEL DISC REAR WHEELS		52
496-011	FRONT WHEEL MOUNTING NUTS		
497-011	REAR WHEEL MOUNTING NUTS		
Cab Exterior			
829-071	106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB		
650-003	LEAF SPRING REAR CAB SUSPENSION		
648-002	NONREMOVABLE BUGSCREEN MOUNTED BEHIND GRILLE		
678-998	NO GRAB HANDLES		
646-023	HOOD MOUNTED CHROMED PLASTIC GRILLE		
65X-003	CHROME HOOD MOUNTED AIR INTAKE GRILLE		
644-004	FIBERGLASS HOOD		



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Data Code	Description	Weight Front	Weight Rear
690-002	TUNNEL/FIREWALL LINER		
726-001	SINGLE ELECTRIC HORN		
657-001	DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME		
575-001	REAR LICENSE PLATE MOUNT END OF FRAME		
312-038	INTEGRAL HEADLIGHT/MARKER ASSEMBLY WITH CHROME BEZEL		
302-047	LED AERODYNAMIC MARKER LIGHTS		
294-042	FREIGHTLINER LED FLANGE MOUNTED STOP/TAIL/TURN LIGHTS WITH SEPARATE INCANDESCENT BACKUP LIGHTS		5
300-015	STANDARD FRONT TURN SIGNAL LAMPS		
744-1BN	DUAL WEST COAST BRIGHT FINISH MIRRORS		
797-001	DOOR MOUNTED MIRRORS		
796-001	102 INCH EQUIPMENT WIDTH		
743-204	LH AND RH 8 INCH BRIGHT FINISH CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS		
729-001	STANDARD SIDE/REAR REFLECTORS		
275-061	ELECTRIC HORN WARNING SYSTEM FOR PARK BRAKE NOT SET WITH DOOR OPEN AND ALL IGNITION KEY POSITIONS		
764-010	COMPOSITE EXTERIOR SUN VISOR	10	
768-043	63X14 INCH TINTED REAR WINDOW		
661-003	TINTED DOOR GLASS LH AND RH WITH TINTED NON-OPERATING WING WINDOWS		
654-027	RH AND LH ELECTRIC POWERED WINDOWS, PASSENGER SWITCHES ON DOOR(S)	4	
663-013	TINTED WINDSHIELD		
659-019	2 GALLON WINDSHIELD WASHER RESERVOIR WITHOUT FLUID LEVEL INDICATOR, FRAME MOUNTED		

Cab Interior

707-1AK	OPAL GRAY VINYL INTERIOR		
706-026	MOLDED PLASTIC DOOR PANEL WITHOUT VINYL INSERT WITH ALUMINUM KICKPLATE LOWER DOOR		
708-026	MOLDED PLASTIC DOOR PANEL WITHOUT VINYL INSERT WITH ALUMINUM KICKPLATE LOWER DOOR		
772-006	BLACK MATS WITH SINGLE INSULATION		
785-001	DASH MOUNTED ASH TRAYS AND LIGHTER		



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Data Code	Description	Weight Front	Weight Rear
691-008	FORWARD ROOF MOUNTED CONSOLE WITH UPPER STORAGE COMPARTMENTS WITHOUT NETTING		
694-010	IN DASH STORAGE BIN		
742-007	(2) CUP HOLDERS LH AND RH DASH		
680-006	GRAY/CHARCOAL FLAT DASH		
700-002	HEATER, DEFROSTER AND AIR CONDITIONER		
701-001	STANDARD HVAC DUCTING		
703-005	MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH		
170-015	STANDARD HEATER PLUMBING		
130-033	DENSO HEAVY DUTY AIR CONDITIONER COMPRESSOR		
702-002	BINARY CONTROL, R-134A		
739-033	STANDARD INSULATION		
285-013	SOLID-STATE CIRCUIT PROTECTION AND FUSES		
280-007	12V NEGATIVE GROUND ELECTRICAL SYSTEM		
324-014	DOME LIGHT WITH 3-WAY SWITCH ACTIVATED BY LH AND RH DOORS		
655-005	LH AND RH ELECTRIC DOOR LOCKS		
284-023	(1) 12 VOLT POWER SUPPLY IN DASH		
722-002	TRIANGULAR REFLECTORS WITHOUT FLARES	10	
756-167	NATIONAL 2000 SERIES EASY-AIRE HIGH BACK AIR SUSPENSION DRIVER SEAT	40	
760-235	2 MAN TOOL BOX MID BACK NON SUSPENSION PASSENGER SEAT	20	
711-004	LH AND RH INTEGRAL DOOR PANEL ARMRESTS		
758-014	BLACK CORDURA PLUS CLOTH DRIVER SEAT COVER		
761-014	BLACK CORDURA PLUS CLOTH PASSENGER SEAT COVER		
763-101	BLACK SEAT BELTS		
532-002	ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN	10	
540-015	4-SPOKE 18 INCH (450MM) STEERING WHEEL		
765-002	DRIVER AND PASSENGER INTERIOR SUN VISORS		

Instruments & Controls

732-004	GRAY DRIVER INSTRUMENT PANEL		
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Data Code	Description	Weight Front	Weight Rear
734-004	GRAY CENTER INSTRUMENT PANEL		
87L-001	ENGINE REMOTE INTERFACE WITH PARK BRAKE INTERLOCK		
870-001	BLACK GAUGE BEZELS		
198-025	INTAKE MOUNTED AIR RESTRICTION INDICATOR WITHOUT GRADUATIONS		
149-013	ELECTRONIC CRUISE CONTROL WITH SWITCHES IN LH SWITCH PANEL		
156-007	KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY		
811-042	ICU3S, 132X48 DISPLAY WITH DIAGNOSTICS, 28 LED WARNING LAMPS AND DATA LINKED		
160-038	HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH		
844-001	2 INCH ELECTRIC FUEL GAUGE		
148-074	ENGINE REMOTE INTERFACE NOT CONFIGURED		
163-001	ENGINE REMOTE INTERFACE CONNECTOR AT BACK OF CAB		
856-001	ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE		
864-005	TRANSMISSION OIL TEMPERATURE INDICATOR LIGHT		
830-017	ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY		
372-063	(1) DASH MOUNTED PTO SWITCH WITH INDICATOR LAMP FOR CUSTOMER INSTALLED PTO	5	
73B-998	NO LANE DEPARTURE WARNING SYSTEM		
852-002	ELECTRIC ENGINE OIL PRESSURE GAUGE		
746-1B3	AM/FM/WB RADIO WITH BLUETOOTH AND MICROPHONE, FRONT USB PORT, FRONT AND REAR AUXILIARY INPUTS AND J1939	10	
747-001	DASH MOUNTED RADIO		
750-002	(2) RADIO SPEAKERS IN CAB		
753-001	AM/FM ANTENNA MOUNTED ON FORWARD LH ROOF	2	
810-027	ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER		
817-001	STANDARD VEHICLE SPEED SENSOR		



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Data Code	Description	Weight Front	Weight Rear
812-001	ELECTRONIC 3000 RPM TACHOMETER		
8D1-998	NO DIRECT CONNECT		
162-011	IDLE LIMITER, ELECTRONIC ENGINE		
329-015	ONE ON/OFF ROCKER SWITCH IN THE DASH WITH INDICATOR LIGHT AND WIRE ROUTED TO CHASSIS AT BACK OF CAB, LABEL OPT		
482-001	BW TRACTOR PROTECTION VALVE		
883-001	TRAILER HAND CONTROL BRAKE VALVE		
836-015	DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY		
660-008	SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY		
304-001	MARKER LIGHT SWITCH INTEGRAL WITH HEADLIGHT SWITCH		
882-027	FOOT PEDAL OPERATED PARK BRAKE AND WARNING INDICATOR FOR HYDRAULIC BRAKE		
299-013	SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, WASHER/WIPER AND HAZARD IN HANDLE		
298-039	INTEGRAL ELECTRONIC TURN SIGNAL FLASHER WITH HAZARD LAMPS OVERRIDING STOP LAMPS		
869-998	NO MISCELLANEOUS GAUGES		

Design

065-000	PAINT: ONE SOLID COLOR
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Color

980-5F6	CAB COLOR A: L0006EB WHITE ELITE BC
986-020	BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT
98K-998	NO FUEL TANK CABINET PAINT
962-972	POWDER WHITE (N0006EA) FRONT WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)
966-972	POWDER WHITE (N0006EA) REAR WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)
964-6Z7	BUMPER PAINT: FP24812 ARGENT SILVER DUPONT FLEX
976-995	SUNVISOR PAINTED SAME AS CAB COLOR A
963-003	STANDARD E COAT/UNDERCOATING

Certification / Compliance

996-001	U.S. FMVSS CERTIFICATION, EXCEPT SALES CABS AND GLIDER KITS
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TOTAL VEHICLE SUMMARY

Weight Summary

	Weight Front	Weight Rear	Total Weight
Factory Weight ⁺	5919 lbs	3932 lbs	9851 lbs
Dealer Installed Options	0 lbs	0 lbs	0 lbs
Total Weight⁺	5919 lbs	3932 lbs	9851 lbs

Dealer Installed Options

		Weight Front	Weight Rear
913	COOKS FLATBED WITH ALL OPTIONAL EQUIPMENT ON QUOTE	0	0
914	TEREX BT2047 CRANE	0	0
	Total Dealer Installed Options	0 lbs	0 lbs

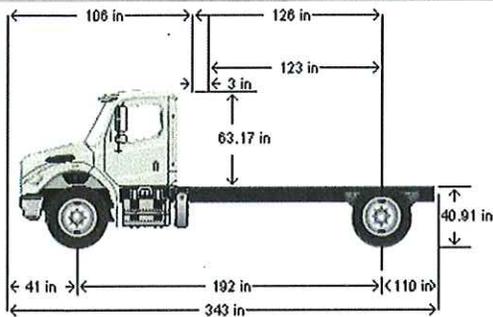
(+) Weights shown are estimates only.
 If weight is critical, contact Customer Application Engineering.



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DIMENSIONS



VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS

Model.....	M2106
Wheelbase (545)	4875MM (192 INCH) WHEELBASE
Rear Frame Overhang (552)	2800MM (110 INCH) REAR FRAME OVERHANG
Fifth Wheel (578)	NO FIFTH WHEEL
Mounting Location (577).....	NO FIFTH WHEEL LOCATION
Maximum Forward Position (in).....	0
Maximum Rearward Position (in)	0
Amount of Slide Travel (in).....	0
Slide Increment (in).....	0
Desired Slide Position (in).....	0.0
Cab Size (829).....	106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Sleeper (682).....	NO SLEEPER BOX/SLEEPERCAB
Exhaust System (016).....	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH HORIZONTAL TAILPIPE

TABLE SUMMARY - DIMENSIONS

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Dimensions	Inches
Bumper to Back of Cab (BBC)	106.3
Bumper to Centerline of Front Axle (BA)	40.7
Min. Cab to Body Clearance (CB)	3.0
Back of Cab to Centerline of Rear Axle(s) (CA)	126.4
Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA)	123.4
Back of Cab Protrusions (Exhaust/Intake) (CP)	0.0
Back of Cab Protrusions (Side Extenders/Trim Tab) (CP)	0.0
Back of Cab Protrusions (CNG Tank)	0.0
Back of Cab Clearance (CL)	3.0
Back of Cab to End of Frame	236.4
Cab Height (CH)	63.2
Wheelbase (WB)	192.0
Frame Overhang (OH)	110.0
Overall Length (OAL)	342.7
Rear Axle Spacing	0.0
Unladen Frame Height at Centerline of Rear Axle	40.9

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.



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Q U O T A T I O N

M2 106 CONVENTIONAL CHASSIS

SET BACK AXLE - TRUCK CUM ISB 6.7-260 260 HP @ 2300 RPM, 2600 GOV, 660 LB/FT @ 1600 RPM ALLISON 2500 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION DETROIT DA-RS-19.0-4 19,000# L-SERIES SINGLE REAR AXLE 18,000# 52 INCH VARIABLE RATE MULTI-LEAF SPRING REAR SUSPENSION WITH LEAF SPRING HELPER	DETROIT DA-F-8.0-3 8,000# FF1 71.5 KPI/3.74 DROP SINGLE FRONT AXLE 10,000# TAPERLEAF FRONT SUSPENSION 106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB 4875MM (192 INCH) WHEELBASE 11/32X3-1/2X10-3/16 INCH STEEL FRAME (8.73MMX258.8MM/0.344X10.19 INCH) 120KSI 2800MM (110 INCH) REAR FRAME OVERHANG
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			PER UNIT		TOTAL
VEHICLE PRICE	TOTAL # OF UNITS (1)	\$	70,604	\$	70,604
EXTENDED WARRANTY		\$	0	\$	0
DEALER INSTALLED OPTIONS		\$	83,979	\$	83,979
CUSTOMER PRICE BEFORE TAX		\$	154,583	\$	154,583
TAXES AND FEES					
TAXES AND FEES		\$	0	\$	0
OTHER CHARGES		\$	0	\$	0
TRADE-IN					
TRADE-IN ALLOWANCE		\$	(0)	\$	(0)
BALANCE DUE	(LOCAL CURRENCY)	\$	154,583	\$	154,583

Michael F. McCarthy
 Account Manager

Daimler Truck Financial

Financing that works for you.

See your local dealer for a competitive quote from Daimler Truck Financial, or contact us at Information@dtfoffers.com.

Daimler Truck Financial offers a variety of finance, lease and insurance solutions to fit your business needs. For more information about our products and services, visit our website at www.daimler-truckfinancial.com.





BT2047

PLAN-BT2047
Price List No. : 2016-BT2047
Revision No. : A1
Revision No. Date : 1/1/2016
Quote Effective: 9/15/2016

DATE: 9/15/2016
TO: Houston Freightliner
FOR: Mike Macarthy

DELIVERY: **TENTATIVE Availability to Ship from Factory**

Subject: **Terex BT2047 Boom Truck Crane - 10 Ton (US) Capacity**

We are pleased to offer for your consideration the following quotation on our Terex **BT2047** Hydraulic Boom Truck Crane. Please review the quotation carefully to make sure the options and equipment selected meet your requirements.

Price and availability are subject to change at time of order.

Shipping terms are FCA Terex Factory, Waverly, Iowa - INCO Terms 2010.

Standard payment terms are net 30 days. However the terms stated on the Sales Order Acknowledgement will apply and all terms are subject to approval.

Standard warranty is two (2) years from date of delivery to the first End User.

Dealer/Customer is responsible for converting Terex supplied truck chassis' (MSO) to a state title and for paying all applicable state or local taxes, license and title fees.

Terex Service Technicians are available for assistance with pre-delivery inspection (PDI)- erection and operator familiarization, however these services are not included (or priced) as part of this quotation. Arrangements and fees for these services may be discussed directly with our Service Department in Wilmington, North Carolina if required.

We would like to thank you for your consideration of the Terex Boom Truck product line for your business needs. If you have any questions regarding this quotation please feel free to contact this office.

Sincerely,

Terex Cranes - North America
Terex Cranes - North America



STANDARD EQUIPMENT DESCRIPTION - BT2047

BASIC MACHINE:

- 10 tons (9.1 mt) capacity rating.
- Mainframe consists of all-steel, box construction. Subframe length designed for 16' flatbed.
- Dual-side, stand-up controls with foot throttle pedal
- Front main "A" frame outriggers independently controlled with an overall extended span of 22' (6.7m) to the outside of the pads.
- Rear stabilizers are "A" frame type with an overall extended span of 10' 2" (3.1m) to the outside of pads.
- Rotation Planetary gearbox - hydraulic motor driven with 370-degrees of non-continuous swing rotation.
- Crane consoles include 4 lever crane function control handles - 4 lever outrigger control handles - engine start/stop switches - signal horn - bubble level and warning light for high hydraulic oil temperature.
- GREER "INSIGHT" Rated Capacity Limiter system with digital read out display, and integrated work area definition program.
- Standard Color Scheme: Terex Gray (Mainframe Pedestal, Subframe, Front and Rear Outriggers, Extending Boom Sections, Boom Tip Head, Flatbed)
Terex White (Turret, Base Boom and Jib) - Terex Black (Control Stand, Operators Platform and Guards, Access steps and ladders)

BOOM:

- Three section KEEL designed boom, full power, mechanically synchronized with 18'7" (retracted) to 47' (extended) maximum length (5.7 - 14.3m) and maximum tip height off the ground of 56' (17.1m)
- Each KEEL section is high-strength, steel plate construction designed to optimize the strength to weight ratio.
- Boom sections are color stripe coded to corresponding load chart.
- Boom Tip Head is equipped with 1 bottom head sheave - includes attachment point for optional work baskets.

HYDRAULIC SYSTEM:

- High capacity, full flow oil filtration system with a 70 gallon (265L) capacity reservoir and internal suction filter screen.
- Three section vane pump is PTO driven and allows independent functioning of Boom, Winch and Swing operations.
- The combined system output is 57 gpm at 2300 rpm pump speed and up to 2750 psi operating pressures.
- The return line filter is 10 micron and is externally mounted to the reservoir.

WINCH HOIST:

- Standard Two-Speed Planetary Hoist - hydraulic motor driven - Maximum Line Pull 7,900lbs / 3,600lbs @ low speed/high speed setting
- Optional choice of 210' (64m of 1/2-in (12.7mm) Regular Lay or Rotation Resistant wire rope
- Maximum line speed of 144 / 163 fpm low speed /high speed.

MANUALS:

- (1) Hard Copy Operators Manual - (1) CDROM includes Operators/Parts/Schematics/Greer/Wire Rope (manuals)- (1) CDROM includes AEM Safety Video

MACHINE DESTINATION SELECTION		PRICE (\$)	PRICE (\$)
<input checked="" type="radio"/>	Domestic Shipment (within the US)	\$0.00	\$0.00
<input type="radio"/>	Canadian Shipment	\$0.00	n/a
<input type="radio"/>	Mexico Shipment	\$0.00	n/a
<input type="radio"/>	International Shipment - Export Packing Required (excluding US and CANADA)	\$1,900.00	n/a
BASIC MACHINE SELECTION - BT2047			
<input checked="" type="radio"/>	Model BT2047 (10 U.S. Ton (9.1mt)) BASIC MACHINE (as described above)	\$77,133.00	\$77,133.00
OPTIONAL CONFIGURATION SELECTION			
<input type="checkbox"/>	BT 2047 without rear stabilizers, hydraulic tank, boom rest (SHIP OUT KIT ONLY)	SPECIAL	n/a

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CHARTS AND MARKINGS SELECTION		PRICE (\$)	PRICE (\$)
<input checked="" type="radio"/>	IMPERIAL (English) - Includes imperial load chart, chip and decals	IMPERIAL	IMPERIAL
<input type="radio"/>	METRIC - Includes metric load chart and chip, but imperial decals	METRIC	n/a
LABELING SELECTION (To Coordinate With Crane Color)			
<input checked="" type="radio"/>	BLACK Decals	BLACK	BLACK
<input type="radio"/>	WHITE Decals	WHITE	n/a
LOGOS SELECTION			
<input checked="" type="radio"/>	INCLUDES TEREX LOGOS	TEREX	TEREX
<input type="radio"/>	WITHOUT TEREX LOGOS	No Logos	n/a
ROTATION TYPE SELECTION			
<input checked="" type="radio"/>	370 degree, non-continuous rotation	\$0.00	\$0.00
<input type="radio"/>	Continuous Rotation (no swing stop) - (Requires front bumper outrigger for 360-degree stability with any loads or work basket)	\$4,007.00	n/a
SHIPOUT KIT or FACTORY INSTALLATION SELECTION			
PLEASE COMPLETE THE 'CHASSIS' TAB REGARDLESS OF THE CHOICE SELECTED IN THIS SECTION			
<input type="radio"/>	SHIP-OUT Kit - Un-mounted / Assembled Components (Pedestal, Turret, Control box and Boom) Tested Separately	Ship-Out	n/a
<input type="radio"/>	<u>For Terex Supplied Chassis:</u> Installation charges for BT crane on a Terex-supplied stock chassis from price list. Includes PTO (option selected), all mounting hardware, hydraulic oil, fluid refills and lubrication. Engine start/stop wiring, electronic foot throttle, warning horn, electronic backup alarm and Flatbed (option selected) Fully Assembled and Stability Tested prior to shipment with Crane Manuals and ICC Safety Kit.	\$6,870.00	n/a
<input checked="" type="radio"/>	<u>For Dealer / Customer Supplied Chassis: Terex Engineering written approval required</u> DLR: Installation charge for BT crane on a Dealer-Customer supplied Chassis. Detailed Chassis spec's must be sent for review and approved by Terex in writing. Includes PTO (option selected), all mounting hardware, hydraulic oil, fluid refills and lubrication Engine start/stop wiring, electronic foot throttle, warning horn, electronic backup alarm and Flatbed (option selected) throttle and final testing of all. Also includes installation of previously selected flatbed body. Fully Assembled and Stability Tested prior to shipment with Crane Manuals and ICC Safety Kit. *Extra Charges may apply for moving truck chassis components that interfere with normal installation.	\$8,701.00	\$8,701.00

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PTO OPTIONS		PRICE (\$)	PRICE (\$)
<input type="radio"/>	NONE REQUIRED - (Ship-out Kit or Dealer Supplied)	\$0.00	n/a
<input type="radio"/>	AIR / ELECTRIC SHIFT	\$832.00	n/a
<input checked="" type="radio"/>	HOT SHIFT PTO - required with Automatic Transmissions	\$1,570.00	\$1,570.00
HOIST WIRE ROPE SELECTION			
<input type="radio"/>	No Wire Rope Installed on Hoist	\$0.00	n/a
<input type="radio"/>	Regular Lay Wire Rope, (6x25 EIPS, 210' (73.2 m) of 1/2" (12.7mm)) (Not-Rotation Resistant)	\$417.00	n/a
<input checked="" type="radio"/>	Rotation Resistant Wire Rope (19x19 IWRC - FLEX-X, or equivalent, 210' (73.2 m) of 1/2" (12.7mm))	\$694.00	\$694.00
OVERHAUL BALL SELECTION			
<input type="checkbox"/>	Overhaul Ball and Swivel Hook - (6.25 US Ton (5.7 mt) capacity rating for use with regular lay wire rope - Weight 108 lbs	\$1,037.00	n/a
<input checked="" type="checkbox"/>	Overhaul Ball and (Non Swivel) Hook - (5 US Ton (6.4mt) capacity rating for use with rotation resistant wire rope - Weight 98 lbs.	\$1,063.00	\$1,063.00
HOOK BLOCK SELECTION			
<input type="checkbox"/>	10.0-ton (9.08 mt), 1-Sheave Block w/Hook (2-3 parts of line) - Weight 130 lbs	\$1,388.00	n/a
<input type="checkbox"/>	15.0 ton (13.6 mt), 2-Sheave Block w/Hook (4-5 parts of line) - Weight 138 lbs	\$1,804.00	n/a
JIB SELECTION			
<input checked="" type="radio"/>	No Jib Selected	\$0.00	\$0.00
<input type="radio"/>	Swing Away Jib: 18' (5.49 m) - Single Section	\$6,523.00	n/a
<input type="radio"/>	Swing Away Jib: 18' - 30' (5.49 m - 9.14 m) - Two Section	\$6,801.00	n/a
FLATBED SELECTION			
<input checked="" type="radio"/>	No Flatbed Selected	\$0.00	\$0.00
<input type="radio"/>	Wood Deck Flatbed -16 ft (192" x 96") (488 cm x 244 cm)(wooden deck with stake pockets)	\$3,192.00	n/a
<input type="radio"/>	Steel Deck Flatbed - 16 ft (192" x 96") (488 cm x 244 cm)(tread plate deck with stake pockets)	\$3,192.00	n/a
<input type="radio"/>	Super Duty Steel Deck 16' Flatbed- Steel channel outer rail, chain hook rail and stake pockets - 12" cross members	TBD	n/a
MANUAL SELECTION (Choose One)			
<input checked="" type="radio"/>	English Manuals	\$0.00	\$0.00
<input type="radio"/>	Spanish Manuals	\$0.00	n/a
<input type="radio"/>	French Canadian Manuals	\$0.00	n/a

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WORK BASKET SELECTION

<input checked="" type="radio"/>	No Work Basket ordered	\$0.00	\$0.00
<input type="radio"/>	Two Person Steel Work Basket (with dual safety harness' and lanyards)	\$8,750.00	n/a

FRONT STABILIZER OPTION SELECTION

		PRICE (\$)	PRICE (\$)
REQUIRED FOR FULL 360 DEGREE RATED LOAD CAPACITY CHART			
<input checked="" type="radio"/>	No Front Bumper Stabilizer Selected	\$0.00	\$0.00
<input type="radio"/>	Single, Front Bumper Stabilizer - 34" Wide Front Frame Extensions - Needed for 360 degree stability - requires a chassis with 24" extended front frame rails.	\$5,413.00	n/a
<input type="radio"/>	Single, Front Bumper Stabilizer - 46" Wide Front Frame Extensions - Needed for 360 degree stability - requires a chassis with 24" extended front frame rails.	\$5,413.00	n/a

TOOLBOX SELECTION

<input checked="" type="radio"/>	No Toolbox Selected	\$0.00	\$0.00
<input type="radio"/>	Steel Toolbox - 18" x 18" x 30" (with locking door)(available for single and tandem axle chassis)	\$650.00	n/a
<input type="radio"/>	Steel Toolbox - 18" x 18" x 36" (with locking door)(available for single axle chassis only)	\$650.00	n/a

ACCESSORY SELECTION

<input type="checkbox"/>	Oil Cooler (Recommended for High Duty Cycle applications - 12 volt electric unit - mounts on chassis frame)	\$2,468.00	n/a
<input type="checkbox"/>	Four Function Radio Remote Controls (requires neutral safety switch on transmission)(if required with ship out kit contact factory)	\$15,325.00	n/a
<input type="checkbox"/>	Auxiliary Sheave Kit (Boom Point Extension)(4-5 parts of line)	\$390.00	n/a

EXTRA OWNER'S MANUAL SELECTION

QTY	0	Extra Manual Pack (Includes Spare Parts Manual / Operator's Manual) (Price for each additional set)	\$430.00	\$0.00
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SPECIAL PAINT SELECTION

<input checked="" type="radio"/>	Terex Standard Paint Scheme	\$0.00	\$0.00
<input type="radio"/>	Other Special Paint - NOTE: Terex standard paint product only - Color Paint Chip required from customer for matching - Paint option will only apply to the following BT components (Base Boom - Turret- Winch - Pedestal Mainframe - Outriggers)	\$2,499.00	n/a

SPECIAL OPTION SELECTION

<input type="checkbox"/>	Special Option Required (Consult factory for price and availability)	Consult Factory	n/a
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TOTAL LIST PRICE	\$89,161.00
LESS STANDARD DEALER DISCOUNT	<u>17%</u>	(\$15,157.00)
SUB-TOTAL	\$74,004.00
LESS SPECIAL DISCOUNT	<u>0%</u>	\$0.00
SUB-TOTAL	\$74,004.00
LESS SPECIAL DISCOUNT	<u>0%</u>	\$0.00
SUB-TOTAL	\$74,004.00
LESS SPECIAL DISCOUNT	<u>0%</u>	\$0.00
NET Customer Price - FCA Terex Factory, Waverly, Iowa USA	\$74,004.00
Add Net Price of Chassis (From Chassis Tab)		\$0.00
Chassis Description: (Enter As Needed)	
(See Chassis Info Tab) Add Chassis FET Amount (Tandem Axle Chassis Only)	<u>0%</u>	\$0.00
GRAND TOTAL AMOUNT (FCA, Waverly, Iowa USA)		<u>\$74,004.00</u>

