

**SECTION 4  
BID SUBMITTAL FORM**

**Submit Bid To:**  
**CLERK OF THE BOARD**  
**Stephen P. Clark Center**  
**111 NW 1<sup>st</sup> Street**  
**17<sup>th</sup> Floor, Suite 202**  
**Miami, Florida 33128-1983**

**OPENING: 2:00 P.M.**  
**Wednesday**  
**January 9, 2013**



**PLEASE QUOTE PRICES F.O.B. DESTINATION, FREIGHT ALLOWED, LESS TAXES,  
DELIVERED IN MIAMI-DADE COUNTY, FLORIDA.**

NOTE: Miami-Dade County is exempt from all taxes (Federal, State, Local). Bid price should be less all taxes. Tax Exemption Certificate furnished upon request.

Issued by: **ISD/PM**  
**Lourdes**  
**Betancourt**

Date Issued:  
**12/18/2012**

This Bid Submittal Consists of  
Pages **19** through **24**

Sealed bids subject to the Terms and Conditions of this Invitation to Bid and the accompanying Bid Submittal. Such other contract provisions, specifications, drawings or other data as are attached or incorporated by reference in the Bid Submittal, will be received at the office of the Clerk of the Board at the address shown above until the above stated time and date, and at that time, publicly opened for furnishing the supplies or services described in the accompanying Bid Submittal Requirement.

**Title:**  
**Tilt Frame Roll Off Trucks**

A Bid Deposit in the amount of **N/A** the total amount of the bid shall accompany all bids.

A Performance Bond in the amount of **N/A** the total amount of the bid will be required upon execution of the contract by the successful bidder and Miami-Dade County.

<b>DO NOT WRITE IN THIS SPACE</b>	
ACCEPTED _____	HIGHER THAN LOW _____
NON-RESPONSIVE _____	NON-RESPONSIBLE _____
DATE B.C.C. _____	NO BID _____
ITEM NOS. ACCEPTED _____	
COMMODITY CODE: <b>070-51</b>	
Procurement Contracting Officer:	<b>Lourdes Betancourt</b>

FIRM NAME TP Investment Group, LLC dba  
Condor of South Florida

**RETURN ONE ORIGINAL AND TWO COPIES OF BID SUBMITTAL PAGES AND AFFIDAVITS.**

**FAILURE TO SIGN THE BID SUBMITTAL FORM IN SECTION 4 WILL RENDER YOUR BID NON-RESPONSIVE.**

SECTION 4  
 BID SUBMITTAL FOR:

FIRM NAME: TP Investment Group, LLC dba Condor of South Florida

**TRUCK A:**

Description	Estimated Quantity	Price Per Truck
<b>TRUCK A. CABLE HOIST</b> Purchase of Model Year 2013 Tilt Frame Roll Off Truck	<b>3 Trucks</b>	<b>\$<u>201,055.00</u></b>
Delivery: 210-270 days after receipt of order (not to exceed 270 days)		

	CHECKLIST	Check as Completed
1.	Attach truck manufacturer, fabricator, or approved dealer documentation per Section 2.6.1.	(✓)
2.	Local Service Facility in Miami-Dade or Broward County per Section 2.6.2.  Name of Facility: <u>Kenworth of South Florida</u>  Address: <u>2909 S. Andrews Avenue</u>  City: <u>Fort Lauderdale, FL 33316</u>	(✓)
3.	Attach license in accordance with Chapter 320 of the Florida Statutes, SS320.27 per Section 2.6.3.	(✓)
4.	Attach Dimensional Drawing Chart showing the dimensions of the projected build as well as weight charts showing the weight distribution of the vehicle both loaded and unloaded and wall to wall and curb to curb turning circle charts for the truck proposed using a standard manufacturer's front bumper.	(✓)
5.	Is skid plate available directly from truck's manufacturer?	Circle one: <u>Yes</u> or No
6.	If skid plate is not available directly from the truck's manufacturer, the Bidder shall provide details and drawings of the proposed local installation (see Section 3.7).	(✓)
7.	When an equal product is bid, the Bidder shall furnish the factory information sheets (specifications, brochures, etc.) that show the product meets or exceeds the required specifications. Manufacturer's standard information sheets, catalogues, brochures and all supporting documentation submitted must show the product meets or exceeds the required specifications. Bids that are submitted with standard product literature which offer technical data or product descriptions indicating the item or product bid does not meet the required specifications must be accompanied by a letter, on the Bidder's company stationary, identifying those differences and describing how compliance with the required specifications is to be accomplished.	(✓)

SECTION 4  
 BID SUBMITTAL FOR:

FIRM NAME: TP Investment Group, LLC dba Condor of South Florida

**TRUCK B:**

Description	Estimated Quantity	Price Per Truck
<b>TRUCK B. HOOK ARM LIFT</b> Purchase of Model Year 2013 Tilt Frame Roll Off Truck	<b>9 Trucks</b>	<b>\$ <u>214,650.00</u></b>
Delivery: <u>210-270</u> days after receipt of order (not to exceed 270 days)		

	CHECKLIST	Check as Completed
1.	Attach truck manufacturer, fabricator, or approved dealer documentation per Section 2.6.1.	(/)
2.	Local Service Facility in Miami-Dade or Broward County per Section 2.6.2.  Name of Facility: <u>Kenworth of South Florida</u>  Address: <u>2909 S Andrews Avenue</u>  City: <u>Fort Lauderdale, FL 33316</u>	(/)
3.	Attach license in accordance with Chapter 320 of the Florida Statutes, SS320.27 per Section 2.6.3.	(/)
4.	Attach Dimensional Drawing Chart showing the dimensions of the projected build as well as weight charts showing the weight distribution of the vehicle both loaded and unloaded and wall to wall and curb to curb turning circle charts for the truck proposed using a standard manufacturer's front bumper.	(/)
5.	Is skid plate available directly from truck's manufacturer?	Circle one: <input checked="" type="radio"/> Yes or No
6.	If skid plate is not available directly from the truck's manufacturer, the Bidder shall provide details and drawings of the proposed local installation (see Section 3.7).	(/)
7.	When an equal product is bid, the Bidder shall furnish the factory information sheets (specifications, brochures, etc.) that show the product meets or exceeds the required specifications. Manufacturer's standard information sheets, catalogues, brochures and all supporting documentation submitted must show the product meets or exceeds the required specifications. Bids that are submitted with standard product literature which offer technical data or product descriptions indicating the item or product bid does not meet the required specifications must be accompanied by a letter, on the Bidder's company stationery, identifying those differences and describing how compliance with the required specifications is to be accomplished.	(/)





Bid Title: Tilt Frame Roll Off Trucks

By signing this Bid Submittal Form the Bidder certifies that it satisfies all legal requirements (as an entity) to do business with the County, including all Conflict of Interest and Code of Ethics provisions in Section 2-11 of the Miami-Dade County Code. Any County employee or member of his or her immediate family seeking to contract with the County shall seek a conflict of interest opinion from the Miami-Dade County Ethics Commission prior to submittal of a Bid response or application of any type to contract with the County by the employee or his or her immediate family and file a copy of that request for opinion and any opinion or waiver from the Board of County Commissioners with the Clerk of the Board. The affected employee shall file with the Clerk of the Board a statement in a form satisfactory to the Clerk disclosing the employee's interest or the interest of his or her immediate family in the proposed contract and the nature of the intended contract at the same time as or before submitting a Bid, response, or application of any type to contract with the County. Also a copy of the request for a conflict of interest opinion from the Ethics Commission and any corresponding opinion, or any waiver issued by the Board of County Commissioners, must be submitted with the response to the solicitation.

In accordance with Sec. 2-11.1(s) of the County Code as amended, prior to conducting any lobbying regarding this solicitation, the Bidder must file the appropriate form with the Clerk of the Board stating that a particular lobbyist is authorized to represent the Bidder. Failure to file the appropriate form in relation to each solicitation may be considered as evidence that the Bidder is not a responsible contractor.

The Bidder confirms that this Bid is made without prior understanding, agreement, or connection with any corporation, firm, or person submitting a Bid for the same goods and/or services and in all respects is without collusion, and that the Bidder will accept any resultant award. Further, the undersigned acknowledges that award of a contract is contingent upon vendor registration. Failure to register as a vendor within the specified time may result in your firm not being considered for award.

Pursuant to Miami-Dade County Ordinance 94-34, any individual, corporation, partnership, joint venture or other legal entity having an officer, director, or executive who has been convicted of a felony during the past ten (10) years shall disclose this information at the time of bid or proposal submission.

Place a check mark here only if bidder has such conviction to disclose.

By executing this proposal through a duly authorized representative, the proposer certifies that the proposer is not on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, as those terms are used and defined in sections 287.135 and 215.473 of the Florida Statutes. In the event that the proposer is unable to provide such certification but still seeks to be considered for award of this solicitation, the proposer shall execute the proposal through a duly authorized representative and shall also initial this space: NA. In such event, the proposer shall furnish together with its proposal a duly executed written explanation of the facts supporting any exception to the requirement for certification that it claims under Section 287.135 of the Florida Statutes. The proposer agrees to cooperate fully with the County in any investigation undertaken by the County to determine whether the claimed exception would be applicable. The County shall have the right to terminate any contract resulting from this solicitation for default if the proposer is found to have submitted a false certification or to have been placed on the Scrutinized Companies for Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List.

**LOCAL PREFERENCE CERTIFICATION:** For the purpose of this certification, a "local business" is a business located within the limits of Miami-Dade County (or Broward County in accordance with the Interlocal Agreement between the two counties) that conforms with the provisions of Section 1.10 of the General Terms and Conditions of this solicitation and contributes to the economic development of the community in a verifiable and measurable way. This may include, but not be limited to, the retention and expansion of employment opportunities and the support and increase to the County's tax base.

Place a check mark here only if affirming bidder meets requirements for Local Preference. Failure to complete this certification at this time (by checking the box above) may render the vendor ineligible for Local Preference.

**LOCALLY-HEADQUARTERED BUSINESS CERTIFICATION:** For the purpose of this certification, a "locally-headquartered business" is a Local Business whose "principal place of business" is in Miami-Dade County, as defined in Section 1.10 of the General Terms and Conditions of this solicitation.

Place a check mark here only if affirming bidder meets requirements for the Locally-Headquartered Preference (LHP). Failure to complete this certification at this time (by checking the box above) may render the vendor ineligible for the LHP. The address of the locally-headquartered office is \_\_\_\_\_.





# **APPENDIX**

## **AFFIDAVITS**

**FORMAL BIDS**

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Miami-Dade County
Internal Services Department
Procurement Management Division
Affirmation of Vendor Affidavits

In accordance with Ordinance 07-143 amending Section 2-8.1 of the Code of Miami-Dade County, effective June 1, 2008, vendors are required to complete a new Vendor Registration Package, including a Uniform Affidavit Packet (Vendor Affidavits Form), before being awarded a new contract. The undersigned affirms that the Vendor Affidavits Form submitted with the Vendor Registration Package is current, complete and accurate for each affidavit listed below.

Contract No.: BID NO: 9719-0/18 Federal Employer Identification Number (FEIN): 204562303
Contract Title: Tilt Frame Roll Off Trucks

Affidavits and Legislation/ Governing Body

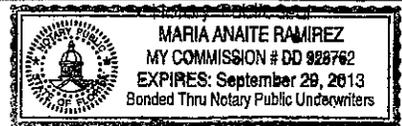
Table with 10 rows listing various Miami-Dade County affidavits and legislation, such as 'Miami-Dade County Ownership Disclosure', 'Miami-Dade County Vendor Obligation to County', etc.

Robert Todd Hays Managing Member
TP Investment, LLC dba Condor of South Florida
2911 S. Andrews Avenue FL 33316

Notary Public Information

Notary Public - State of Florida County of Broward
Subscribed and sworn to (or affirmed) before me this 29 day of January 20 13
by Robert Todd Hays He or she is personally known to me [checked] or has produced identification [unchecked]

Signature of Notary Public: Maria Anaite Ramirez
Serial Number: DD 928762
Expiration Date: 09/29/2013



SUBCONTRACTOR/SUPPLIER LISTING

Firm Name of Prime Contractor/Responsible TP Investment Group, LLC dba Comdor of South Fl  
 Project/Contract Number BID NO: 9719-0718  
 (Miami-Dade County Code Sections 2-8.1, 2-8 and 10-34) FEIN # 204562303

In accordance with Sections 2-8.1, 2-8 and 10-34 of the Miami-Dade County Code, this form must be submitted as a condition of award by all bidders/respondents on County contracts for purchase of supplies, materials or services, including professional services which involve expenditures of \$100,000 or more, and all bidder/respondents on County or Public Health. These construction contracts which involve expenditures of \$100,000 or more. The bidder/respondent who is awarded the subcontract shall not change or substitute that first subcontractor or direct supplier or the portions of the contract work to be performed or materials to be supplied from those identified, except upon written approval of the County. The bidder/respondent should enter the word "N/A" under the appropriate heading of this form if no subcontractors or suppliers will be used on the contract.

In accordance with Ordinance No. 11-80, an entity contracting with the County shall report the race, gender and ethnic origin of the owners and employees of all first tier subcontractors/suppliers. In the event that the successful bidder/demolition contractor to the County fails to award that race, gender, and ethnic information to the County, the successful bidder shall be obligated to execute a contract addendum to obtain that information and provide the same to the County not later than 100 days after the bid opening. The addendum shall be submitted to the County. (Please duplicate this form if additional bidders are needed.)

Business Name and Address of First Tier Subcontractor/ Subconsultant	Principal Owner	Scope of Work to be Performed by Subcontractor/ Subconsultant	Principal Owner		Employees	
			(Enter the number of male and female owners by race/ethnicity)		(Enter the number of male and female employees and the number of employees by race/ethnicity)	
			Gender	Race/Ethnicity	Gender	Race/Ethnicity
RDK Truck Sales & Service, Inc. FEIN: 59-3446870 3214 Adamo Drive Tampa, FL 33605	Richard Kemner	Supply and mounting of bodies	M	White	M	White
			F	Black	F	Black
			X	Hispanic	16	Hispanic
				Asian/Pacific Islander	4	Asian/Pacific Islander
				Native American/Alaskan	12	Native American/Alaskan
				Other	4	Other

Mark here if race, gender and ethnicity information is not available and will be provided at a later date. This data may be submitted to Contracting User department or on-line to the Small Business Development Division of the Regulatory and Economic Resources Department at <http://www.miamidade.gov/businessdevelopment/>

I certify that the representations contained in this Subcontractor/Supplier Listing are to the best of my knowledge true and accurate.

Signature of Bidder/Respondent:  Robert Tomlin  
 Print Name: Robert Tomlin  
 Print Title: Managing Member  
 Date: 1/29/13



# HAZARDOUS MATERIAL MANAGEMENT FACILITY LICENSE

License Number: HM-01322-11

**Applicant:**

Todd Hayes, President  
TP Investment Group, LLC  
2909 S ANDREWS AVE  
Fort Lauderdale, FL 33316

**Facility Number:** 01322  
Kenworth of South Florida.  
2909 S ANDREWS AVE  
Fort Lauderdale, FL 33316

This license is issued under the provisions of Chapter 27 of the Broward County Code of Ordinances hereinafter called the Code. The above-named applicant, hereinafter called Licensee, is hereby authorized to perform the work or operate the facility shown on the approved drawings, plans, documents, and specifications submitted by the Licensee and made a part hereof and described specifically below. The issuance of this license is a final agency determination. A person with a substantial interest may file a petition to request review of or to intervene in a review of a final administrative determination, subject to the provisions of Section 27-14, Broward County Code of Ordinances. If no objection to this license is received within 14 days, the Licensee will be deemed to have accepted it and all the attached terms and conditions.

ALL GENERAL CONDITIONS and SPECIFIC CONDITIONS, on the back of the license or as attached, are considered to constitute the requirements of this license. The Licensee is required to fully comply with all these conditions. Any failure to comply with conditions or requirements as set forth may result in revocation or suspension of this license and may subject the Licensee to enforcement action in accordance with the provisions of Article 1, Division 4 of the Code.

**Nature of Business:** Truck Dealership - Sales And Service

**Hazardous Waste Stream:** Petroleum Products, Solvents, Batteries

**Well Field:** N/A

**Septic:** Yes

**IMPORTANT: THIS LICENSE IS ISSUED ONLY TO THE LICENSEE FOR THE FACILITY ADDRESS IDENTIFIED ABOVE. IF THE FACILITY MOVES, CLOSES, OR HAS A CHANGE IN LICENSEE OR ACTIVITY, THE LICENSEE MUST:**

- Transfer license to a new owner or operator
- Submit written notification thirty (30) days prior to closing the facility
- Properly remove and/or dispose of all hazardous materials when closing a facility
- Submit application for each hazardous material management facility location(s) in Broward County
- Submit application, secure approval, and call (954) 519-1260 for inspection, prior to installing or modifying storage tanks
- Submit application, secure approval, and call (954) 519-1260 for inspection, prior to removing or moving storage tanks
- Properly maintain storage tanks and the associated license until all tanks are properly closed

**Application Received:** Nov 09, 2011  
**Effective Date:** Dec 01, 2011  
**Expiration Date:** Nov 30, 2013  
**Prepared By:** Gary Strich  
**Renewal Application Due:** Oct 01, 2013

Pollution Prevention, Remediation and Air Quality Division  
www.broward.org/environment  
(PLEASE SEE LICENSE CONDITIONS ON THE BACK)





CITY OF  
FORT LAUDERDALE BUSINESS TAX YEAR 2012 - 2013

*Venice of America*

BUSINESS TAX  
700 NW 19 AVENUE, FORT LAUDERDALE, FLORIDA 33311  
(954)828-5195

Business ID: 9601282 Business Name: TP INVESTMENT GROUP LLC  
Business Address: 2909 S ANDREWS AV  
Tax Category: TRUCKS, SALES AND DISPLAY UP TO 1.1/2723482 TONS Tax#: Fee:

TP INVESTMENT GROUP LLC  
ROBERT TODD HAYS  
2909 S ANDREWS AVE  
FORT LAUDERDALE, FL 33316



CITY OF  
FORT LAUDERDALE BUSINESS TAX YEAR 2012 - 2013

*Venice of America*

BUSINESS TAX  
700 NW 19 AVENUE, FORT LAUDERDALE, FLORIDA 33311  
(954)828-5195

Business ID: 9601282 Business Name: TP INVESTMENT GROUP LLC  
Business Address: 2909 S ANDREWS AV  
Tax Category: TRUCKS-SERVICING AND REPAIRS Tax#: 723481 Fee:

TP INVESTMENT GROUP LLC  
ROBERT TODD HAYS  
2909 S ANDREWS AVE  
FORT LAUDERDALE, FL 33316



State of Florida  
Department of Agriculture and Consumer Services  
Division of Consumer Services  
2005 Apalachee Pkwy  
Tallahassee, Florida 32399-6500

Registration No.: **MV62028**  
Issue Date: December 6, 2012  
Expiration Date: December 6, 2014

POST CERTIFICATE  
CONSPICUOUSLY

### Motor Vehicle Repair Registration Certificate

Chapter 559, Florida Statutes  
GOOD ONLY FOR THE LOCATION LISTED BELOW

KENWORTH OF SOUTH FLORIDA  
2909 S ANDREWS AVE  
FORT LAUDERDALE, FL 33316-4087

OWNED BY:  
TP INVESTMENT GROUP, LLC

ADAM H. PUTNAM  
COMMISSIONER OF AGRICULTURE

This is to certify that the Motor Vehicle Repair Shop whose name and address are shown above has registered and paid the prescribed fee (based on the declared number of mechanics, technicians, and helpers) as required by s. 559.904 F.S. and is authorized to perform Motor Vehicle Repairs at the location shown above.

# LICENSE CERTIFICATE

STATE OF FLORIDA  
DEPARTMENT OF HIGHWAY SAFETY AND  
MOTOR VEHICLES  
DIVISION OF MOTORIST SERVICES

T P INVESTMENT GROUP, LLC  
2909 S ANDREWS AVE  
FT LAUDERDALE, FL 33316

## License

FOR A DEALER IN FRANCHISED  
MOTOR VEHICLES

LICENSE NUMBER  
VF/1017052/1

PRIMARY LOT

EFFECTIVE DATE  
12/05/2012

EXPIRATION DATE  
12/31/2013

THIS CERTIFIES, THAT

T P INVESTMENT GROUP, LLC  
KENWORTH OF SOUTH FLORIDA

AT 2909 S ANDREWS AVE  
FT LAUD, FL 33316

IS HEREBY LICENSED UNDER THE PROVISIONS OF SECTION

320.27, FLORIDA STATUTES TO CONDUCT AND CARRY ON BUSINESS AS  
A DEALER IN FRANCHISED MOTOR VEHICLES AT THE ABOVE DESCRIBED  
LOCATION

GIVEN UNDER MY HAND AND SEAL THE ABOVE DATE WRITTEN.

*Ed Broyles*

BUREAU CHIEF



*Clyton B. Walker*

DIRECTOR

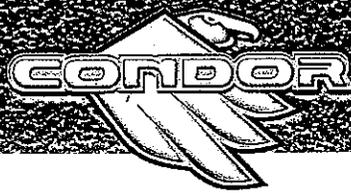
HSMV 84103 (REV. 2/11)S

STATE OF FLORIDA

VOID  
IF  
ALTERED

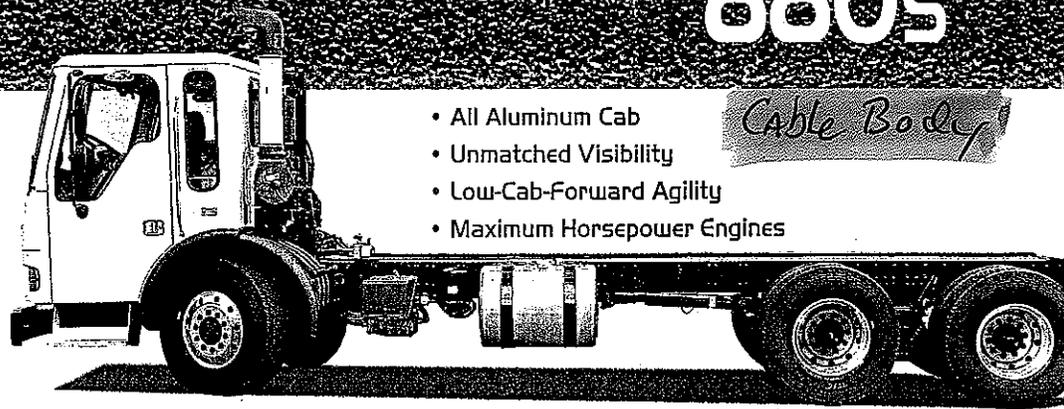
VOID  
IF  
ALTERED

Cable  
Body



# 880S

The Condor 880S offers the roomiest interior of any low-cab-forward vocational truck on the market, with unmatched visibility and operator comfort. Designed for severe service applications like refuse, concrete pumping, and construction industries, the Condor 880S can deliver maximum torque without sacrificing required horsepower.



- All Aluminum Cab
- Unmatched Visibility
- Low-Cab-Forward Agility
- Maximum Horsepower Engines

shown with optional aluminum wheels

## STANDARD SPECIFICATIONS

### ENGINE

CUMMINS ISL	
HORSEPOWER	.....345 HP
TORQUE	.....1150 LBS/FT @ 1400
GOVERNED SPEED, RPM	.....2100
EMISSION DATA	.....2010 EPA/Carb Emission Certification
ENGINE AFTERTREATMENT DEVICE, RH OUTBOARD FRAME MOUNTED, AUTOMATIC OVER THE ROAD REGENERATION AND DASH MOUNTED REGENERATION REQUEST SWITCH	

### COOLING

RADIATOR	.....1500 Square Inch Aluminum Radiator
COOLANT	.....Anti-Freeze to -30° F, Ethylene Glycol Pre-Charged SCA Heavy Duty Coolant
HOSES	.....Gates Blue Stripe Coolant Hoses
CLAMPS	.....Constant Torque Hose Clamps
RADIATOR SURGE TANK	.....Remote Mounted
RADIATOR FAN CONTROL	.....Automatic

### TRANSMISSION

ALLISON 4500 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION	
GEARING	.....5 Speed RDS (Package 113)
SHIFT MECHANISM	.....Push Button Electronic
TRANSMISSION OIL-CHECK & FILL	.....Electronic Oil Level Check
TRANSMISSION OIL COOLER	.....Water to Oil

### AXLES & SUSPENSION

FRONT AXLE	.....MFS-18-133A FL1, Single Front Axle
FRONT AXLE CAPACITY	.....18,000 lbs.
FRONT AXLE WHEEL CUT	.....45 Degrees
FRONT AXLE SUSPENSION	.....18,000 lbs. Flat Leaf
REAR AXLE	.....RT-40-145 R-Series Tandem Rear Axle
REAR AXLE CAPACITY	.....40,000 lbs.
REAR AXLE SUSPENSION	.....40,000 lbs., Hendrickson HN402
SUSPENSION RIDE HEIGHT - REAR (SCO)	.....Hendrickson HN 400/460 - 9.56"
AXLE SPACING, TANDEM DRIVE	.....54"

### FRAME

FRAME RAIL	.....Steel, 11/32" X 3-1/2" X 10-15/16" 120KSI
REAR FRAME OVERHANG	.....75"
FRONT BUMPER	.....10" Painted Steel - HD 1/4"
TOW/LIFTING DEVICE	.....Front Tow Hooks - Frame Mounted

### PAINT

CAB EXTERIOR	.....One Solid Color, B91776 White PPG Delta
CAB INTERIOR	.....Painted Same as Cab Color
CHASSIS	.....Black, High Solids Polyurethane Chassis Paint
BUMPER	.....Bumper Painted Same as Chassis
WHEELS	.....White Wheels & Rims
UNDERCOATING	.....Corrosion Resistant Coating on Underside of Cab

### TIRES & WHEELS

FRONT TIRES	.....Michelin XZU-S 315/80R22.5 20 PLY RADIAL
FRONT WHEELS	.....Accuride 22.5X9.00, 10-Hub Pilot Steel Disc
REAR TIRES	.....Michelin XZE 11R22.5 14 PLY RADIAL
REAR WHEELS	.....Accuride 22.5X8.25, 10-Hub Pilot Steel Disc

### CAB

All Aluminum Cab  
 Black Polyurethane Quarter Fenders Behind Front Wheels  
 Cab Doors Open 90 Degrees  
 Hydraulic Cab Tilt Mechanism with Manual Pump, Located Behind Cab LH Side  
 Painted Cab-Mounted Grill w/Quick-Release Latches  
 Fixed Cab Mounted Steps RH/LH for Cab Entry, 18 Inches Ground Clearance  
 Tinted Door Glass and Windshield, 20"X36" Tinted Rear Window  
 RH & LH Electric Powered Windows  
 Dual Stainless Steel West Coast Mirrors  
 Interior And Exterior Grab Handles for Cab Access on Driver and Passenger Sides  
 Dual Electric Motor Windshield Wiper w/Delay  
 Adjustable Tilt and Telescoping Steering Column  
 Gray Standard Interior  
 Driver's Seat, National 2000 Series Mid-Back with Active Air Lumbar Support, Vinyl Covering  
 Passenger Seat, National 2000 Series Mid-Back Non-Suspension, Vinyl Covering  
 Driver/Passenger Interior Sun Visors  
 Tunnel/Firewall Liner for Engine Compartment Noise Shield  
 Cab Insulation with Additional Noise/ Thermal Treatment  
 Roof Mounted Storage Console  
 LH/RH Door Storage Pockets Integrated Into Molded Door Panels  
 (2) Cup Holders LH/RH Integral with Engine Tunnel Cover

### LIGHTING & ELECTRICAL

Dual Rectangular Halogen Headlights  
 (5) Amber Marker Lights  
 Marker Light Switch Integral w/Headlight Switch  
 Turn Signals Standard Front with Surface Mounted Side Auxiliary Turn Signal  
 Self-Cancel Turn Signal Switch w/Dimmer, Headlamp Flash, Wash/Wipe/Intermittent  
 Door Activated Center Dome Lamp w/Switch

Auto Self-Reset Circuit Breakers and Fuses  
 Steel Battery Box, Frame Mounted Left-Hand Side  
 Frame Ground Return for Battery Cables; Ground Cable from L & R Frame to Engine  
 (2) 1231 GRP31 12V MF 2200 CCA Threaded Stud Batteries

### GAUGES & INSTRUMENTS

Integral Gauges Mounted in Instrument Panel Cluster  
 Electronic MPH Speedometer w/ Secondary KPH Scale, w/o Odometer  
 Integrated Speedometer Message Center LCD Display, Data Linked  
 Trip Hour Meter Integral w/Speedometer Message Center (SMC)  
 Electronic Tachometer 3000 RPM  
 Voltmeter; Low Voltage Warning Light & Buzzer  
 Dual Needle Primary and Secondary Air Pressure Gauge  
 Electric Fuel Gauge  
 In-Tank Fuel Level Sender  
 Electric Engine Oil Pressure Gauge  
 Electrical Engine Coolant Temperature Gauge  
 Transmission Oil Temperature Gauge  
 Interaxle and/or Differential Lockout with Indicator Light  
 Low Air Pressure Light and Buzzer

### WARRANTY

1-Year Basic Warranty; 3-Year Cab Structure; 5-Year Frame Warranty  
 2-Year Factory Cummins Engine; 2-Year Factory Allison Transmission  
 Extended Warranty Packages Available



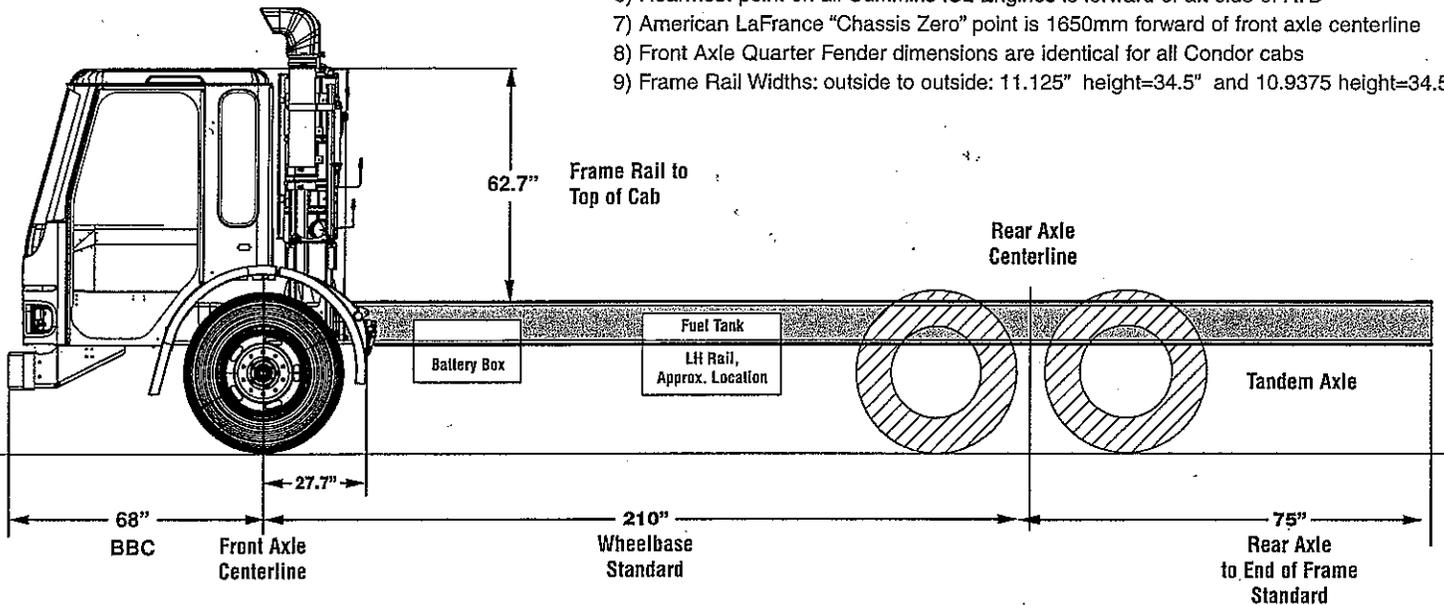
1090 Newton Way • Summerville, SC 29483  
 888-253-8725 • www.condortrucks.com



# DIMENSIONS

## DIMENSION NOTES

- 1) Front Axle Centerline to Quarter Fender Above Rail is 25.5" for ISC and ISL
- 2) Front Axle Centerline to Rear of ATD is 22.5" for ISC and ISL
- 3) Contact American LaFrance for ISX Dimensions
- 4) Rail Heights are 1) 11.125 or 10.9375. Upper rail height difference in height is .09"
- 5) For Tandem Rear Axles, rear axle centerline is middle point between the 2 rear axles
- 6) Rearmost point on all Cummins ISL Engines is forward of aft side of ATD
- 7) American LaFrance "Chassis Zero" point is 1650mm forward of front axle centerline
- 8) Front Axle Quarter Fender dimensions are identical for all Conдор cabs
- 9) Frame Rail Widths: outside to outside: 11.125" height=34.5" and 10.9375 height=34.5"



THIS DRAWING IS FOR REFERENCE ONLY.  
ALL SPECIFICATIONS AND DIMENSIONS ARE SUBJECT TO CHANGE.

## RECOMMENDED OPTIONAL EQUIPMENT

### ENGINES

(ALL 2010 EPA/Carb Emission Certification)

MODEL	HORSEPOWER	TORQUE
CUMMINS ISC 8.3L	270	800 ft./lbs.
	300	860 ft./lbs.
	330	1,000 ft./lbs.
	350	1,000 ft./lbs.
CUMMINS ISL 9L	380	1,300 ft./lbs.
CUMMINS ISL-GAS	320	1,000 ft./lbs.
CUMMINS ISX 11.9L	350	1,350 ft./lbs.
	350	1,450 ft./lbs.
	385	1,450 ft./lbs.
CUMMINS ISX 11.9L (approved applications only)	425	1,650 ft./lbs.

### TRANSMISSIONS

ALLISON AUTOMATIC 3000, 3500, 4000 Series

### AXLES & SUSPENSIONS

FRONT AXLES .....	.....20K
REAR AXLES .....	.....Single Axles 23K-30K, Tandems 46K-52K
FRONT SUSPENSIONS .....	.....20K
REAR SUSPENSIONS .....	.....26K-52K Hendrickson
PUSHER AND TAG AXLES .....	.....Hendrickson (various)

### STEERING CONFIGURATIONS

(ALL FACTORY INSTALLED)

Left-Hand Sit-Down, Right Hand Sit-Down, Dual Sit-Down, Right Hand Stand-Up

### MISCELLANEOUS OPTIONS

- Engine Block Heaters
- Engine Oil Pre-Heater
- Horizontal Aftertreatment Device
  - ISL-Gas Only
- Auxiliary Fuel Tank, RH
- Air Conditioning
- Third-Man Jump Seat, RH or LH drive positions only; location behind passenger seat
- Battery Shutoff Switch
- Methane Detection System
- Fire Extinguisher
- Backup Alarm
- Air Horn
- Heated Mirrors
- Monitors, Wiring, Inputs for Customer Supplied Rear and Side Vision
- Cameras
- LED Stop/Tail Lights with Separate Backup Lights
- Fog Lights
- Utility Work Lights
- Strobe Lights
- Extra Switches in Dash (1, 2, 3 or 5)
- Molded Pod and Armrest for Joystick, LH or RH (joystick customer furnished)
- Vehicle Cruise Control
- Radio - AM/FM/WB/CD
- PTO, Transmission Mounted - Chelsea
- Shock Absorbers, Rear
- Polished Aluminum Wheels, Front/Rear
- C-Channel Inner Frame Reinforcement
- Fifth Wheel
- Bi-Fold Doors

The Leader in Factory Installed Alternative Gas Solutions



## CONDOR OF SO. FLA. MIAMI-DADE COUNTY, ROLL-OFF 01/28/2013

## BASE MODEL

TR02	X	001-552	AMERICAN LAFRANCE CONDOR LOW CAB FORWARD CHASSIS
	X	004-213	2013 MODEL YEAR SPECIFIED
	X	652-020	AMERICAN LAFRANCE CONDOR NAME PLATES

## VEHICLE CONFIGURATION

	X	002-004	SET BACK AXLE - TRUCK
	X	019-002	STRAIGHT TRUCK PROVISION

## STEERING LOCATION

	X	003-001	LH PRIMARY STEERING LOCATION
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## ENGINE &amp; ENGINE EQUIPMENT

	X	101-665	CUMMINS ISX 12L 350R, 350 HP @ 1800 RPM, 2100 GOV SPD / 1450FT-LBS @ 1200 RPM, Refuse Engine
	X	107-032	WABCO/CUMMINS 18.7 CFM COMPRESSOR
	X	266-1AP	1500 SQUARE INCH COPPER/BRASS RADIATOR (AVAILABLE ONLY/REQ'D FOR FEPTO)
	X	168-004	STEEL RADIATOR, OIL PAN AND TRANSMISSION GUARDS
	X	103-041	ANTIFREEZE TO -34F, ETHYLENE GLYCOL, NITRITE & SILICATE FREE, HEAVY DUTY EXTENDED LIFE COOLANT
	X	273-018	HORTON DRIVEMASTER ON/OFF FAN DRIVE
	X	99C-013	2010 EPA/CARB EMISSION CERTIFICATION, CUMMINS 2013 ENGINE MODEL YEAR w/DIAGNOSTICS
	X	105-022	REMOTE ENGINE MOUNTED OIL CHECK & FILL
	X	131-002	TEFLON COMPRESSOR DISCHARGE LINE
	X	160-012	DIAGNOSTIC INTERFACE CONNECTOR, 9 PIN, SAE J1587/1708/1939, LOCATED BELOW DASH
	X	162-002	IGNITION SWITCH CONTROLLED ENGINE STOP
	X	171-007	GATES BLUE STRIPE COOLANT HOSES
	X	172-001	CONSTANT TORQUE HOSE CLAMPS FOR COOLANT HOSES
	X	270-010	RADIATOR DRAINCOCK
	X	188-074	STATIONARY VERTICAL AIR INTAKE LOCATED LH SIDE
	X	190-057	RACOR ECO III 1-STAGE AIR CLEANER
	X	192-013	AIR CLEANER MOUNTED HORIZONTAL LH SIDE ABOVE FRAME RAIL (RH EXHAUST)
	X	014-1ML	VERTICAL SNORKEL AND RACOR HIGH CAPACITY AIR CLNR MTD HORIZ LH. BOC
	X	191-998	NO AIR INTAKE BRIGHTWORK
	X	193-005	RAM AIR SCOOP
	X	124-1CN	DR 12V 145 AMP 24-SI QUADRAMOUNT PAD ALTERNATOR
	X	290-085	STEEL BATT BOX FRAME MTD LEFT-HAND SIDE, LOWERED 5"
	X	289-011	NON-POLISHED BATTERY BOX COVER WITH 3/16" TETHER ON FORWARD SIDE OF COVER/ BOX
	X	292-098	(2) 1231 GRP 31 12V MF 2200 CCA THREADED STUD BATTERIES
	X	293-037	FLAMING RIVER BATTERY SHUTOFF SWITCH W/LOCK PROVISION MTD AFT SIDE OF BAT BOX OUTBOARD OF FRAME
	X	295-021	POSITIVE & NEGATIVE POSTS FOR JUMPSTART MOUNTED TO SIDE OF BATTERY BOX
	X	155-084	DELCO 12V 39MT F HD STARTER W/INTEGRATED MAGNETIC SWITCH (DIESEL ENGINE ONLY)
	X	156-007	KEY OPERATED IGN SWITCH & INTEGRAL START POSITION 4 POSITION OFF/RUN/START/ACC
	X	016-1BW	RH OUTBOARD FRAME MOUNTED VERTICAL AFTERTREATMENT DEVICE WITH TOPSTACK
	X	234-026	VERTICAL AFTERTREATMENT DEVICE
	X	235-079	RH OUTBOARD FRAME MOUNTED VERTICAL AFTERTREATMENT DEVICE
	X	233-005	STAINLESS STEEL MUFFLER INLET ELBOW(S) WITH PLAIN STACK(S)
	X	237-1AJ	VERTICAL TAILPIPE(S) WITH 90 DEGREE CURVED TOP STACK
	X	239-001	STANDARD EXHAUST SYSTEM HEIGHT/LENGTH
	X	242-043	ALUMINUM AFTERTREATMENT SYSTEM SHIELDING (DIESEL ENGINE ONLY)
	X	110-003	CUMMINS SPIN ON FUEL FILTER (NO WATER SENSOR)
	X	118-007	FLEETGUARD LF-9009 COMBINATION FULL FLOW/BYPASS OIL FILTER - ENGINE MOUNTED
	X	120-021	FLEETGUARD COOLANT FILTER, W/(2) SHUTOFF VALVES INLET/OUTLET SIDES
	X	114-998	NO BYPASS OIL FILTER
	X	132-998	NO AIR INTAKE WARMER
	X	23C-001	10 GALLON DEF TANK, NON-HEATED, LH RAIL MOUNTING
	X	23G-001	3 GALLON DEF FLUID (DIESEL ONLY)
	X	166-998	NO OIL PREHEATER
	X	138-998	NO BLOCK HEATER
	X	140-998	NO ENGINE HEATER RECEPTACLE
	X	360-008	1410 ADAPTER FLANGE FOR FRONT PTO PROVISION
	X	106-002	ELECTRONIC FOOT ACCELERATOR
	X	149-998	NO SPEED CONTROL
	X	148-004	PROGRAMMABLE RPM CONTROL WITH PRE-SET FAST IDLE
	X	152-041	ELEC ENG INTEGRAL SHUTDOWN PROTECTION SYSTEM
	X	150-008	CUMMINS ELECTRONIC ENGINE CONTROLS
	X	128-998	NO ENGINE BRAKE
	X	276-001	AUTOMATIC CONTROL W/O DASH SWITCH
	X	28F-002	ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND DASH MOUNTED REGENERATION REQUEST SWITCH

## TRANSMISSION AND TRANSMISSION EQUIPMENT CONDOR HD

	X	342-1M3	ALLISON 4500 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION
	X	595-086	SYNTHETIC LUBE TRANSMISSION & SYNTHETIC LUBE 75W-90 ALL AXLES

X	341-018	MAGNETIC PLUGS, ENGINE DRAIN TRANSMISSION DRAIN, AXLE(S) FILL & DRAIN
X	343-029	WTEC CALIBRATION - 6 SPEED RDS (PACKAGE 142)
X	34V-023	ALLISON 4TH GEN A42
X	353-001	TRANSMISSION VEHICLE INTERFACE CONNECTOR WIRED TO TRANSMISSION ECU
X	370-006	WATER TO OIL TRANSMISSION COOLER
X	345-027	PUSH BUTTON, ELECTRONIC SHIFT CONTROL, ENGINE TUNNEL MOUNTED
X	346-003	TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK
X	362-998	NO MAIN TRANSMISSION MOUNTED PTO
X	363-998	NO PTO MOUNTING LOCATION
X	364-998	NO JOYSTICK
X	365-998	NO JOYSTICK WIRING/PLUMBING
X	372-998	NO PTO CONTROLS
X	386-027	18N MERITOR (#2) DRIVELINE FULL RND
X	388-008	17N MERITOR (#3) DRIVELINE FULL RND
X	393-998	NO DRIVELINE GUARD

**FRONT AXLE**

X	400-1AC	MFS-20-133A FL1 20,000# SINGLE FRONT AXLE
X	408-001	VENTED FRONT HUB CAPS - OIL
X	410-001	FRONT SHOCK ABSORBERS
X	409-002	CHICAGO RAWHIDE SCOTSEAL CLASSIC FRONT OIL SEALS
X	416-022	STANDARD SPINDLE NUTS FOR ALL AXLES
X	418-001	IRON FRONT HUBS
X	402-064	MERITOR 16.5X7 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES
X	403-012	REFUSE SEVERE SERVICE, NON-ASBESTOS FRONT LINING
X	404-074	HALDEX LONG STROKE FRONT BRAKE CHAMBERS
X	405-003	HALDEX AUTOMATIC FRONT SLACK ADJUSTERS
X	419-021	GUNITE CAST IRON FRONT BRAKE DRUMS
X	427-998	NO FRONT BRAKE DUST SHIELDS
X	536-024	TRW TAS-85 POWER STEERING WITH RH RAM ASSIST (REQUIRED FOR 18K AND 20K AXLES)
X	539-006	VICKERS V20 POWER STEERING PUMP
X	533-998	NO OIL/AIR POWER STEERING COOLER
X	534-003	4 QUART POWER STEERING RESERVOIR
X	620-006	20,000# FLAT LEAF FRONT SUSPENSION
X	619-004	GRAPHITE BRONZE BUSHINGS WITH SEALS - FRONT SUSPENSION
X	502-433	ACCURIDE 29039 22.5X9.00 10-HUB PILOT 5.25 INSET 5-HAND STEEL DISC FRONT WHEELS
X	524-998	NON POLISHED ALUMINUM FRONT WHEELS
X	962-976	BLACK POWDER COAT F WHEELS
X	093-350	GOODYEAR G289 WHA 315/80R22.5 20 PLY RADIAL FRONT TIRES (20,000 LBS)

**REAR AXLE**

X	420-103	RT-46-160 R-SERIES TANDEM REAR AXLE @ 46,000#
X	421-563	5.63 REAR AXLE RATIO
X	452-998	NO TRACTION EQUALIZER
X	440-001	CHICAGO RAWHIDE SCOTSEAL CLASSIC REAR OIL SEALS
X	450-002	GUNITE IRON REAR AXLE HUBS
X	438-998	NO HUBODOMETER
X	42T-001	STANDARD REAR AXLE BREATHER(S)
X	423-019	MERITOR 16.5 X 8.62 Q+ CAST SPIDER CAM REAR BRAKES WITH DOUBLE ANCHORS AND FABRICATED SHOES
X	426-075	HALDEX LONGSTROKE 2-DRIVE AXLES SPRING PARKING CHAMBERS
X	428-003	HALDEX AUTOMATIC REAR SLACK ADJUSTERS
X	433-035	REFUSE SEVERE SERVICE NON-ASBESTOS REAR LINING
X	451-021	GUNITE CAST IRON REAR BRAKE DRUMS
X	425-998	NO REAR BRAKE DUST SHIELDS
X	434-003	STANDARD BRAKE CHAMBER LOCATION
X	622-1E7	HENDRICKSON HAULMAAX REAR SUSPENSION @ 46,000#
X	621-1AP	HENDRICKSON HAULMAAX - 10.5" RIDE HEIGHT , STD HAULMAAX 40/46 DEFAULT RIDE HEIGHT
X	910-998	NO REAR CHASSIS SUSPENSION AIR PIPING
X	876-998	NO AIR PP/ELECT AXLE SHIFT,CAB
X	624-009	54" AXLE SPACING
X	628-010	HENDRICKSON HN AND HAULMAAX SERIES STEEL BEAMS WITH BAR PIN
X	623-006	FORE/AFT AND TRANSVERSE CONTROL RODS
X	439-002	REAR SHOCK ABSORBERS - TWO AXLES (TANDEM)
X	505-445	ACCURIDE 29300 22.5X9.00 10-HUB PILOT 5-HAND STEEL DISC REAR WHEELS
X	525-998	NO POLISHED REAR WHEELS
X	966-976	BLACK POWDER COAT R WHEELS
X	094-350	GOODYEAR G289 WHA 315/80R22.5 20 PLY RADIAL REAR TIRES (36,360 lbs/axle)

**AUXILIARY AXLE**

X	035-998	NO PUSHER/TAG PACKAGE
X	449-998	NO PUSHER OR TAG HUBS
X	442-998	NO PUSHER/TAG AXLE OIL SEALS

X	444-998	NO PUSHER OR TAG HUB CAPS
X	456-998	NO PUSHER/TAG BRAKES
X	457-998	NO BRAKE LINING-PUSHER/TAG(SCO)
X	448-998	NO REAR BRAKE DRUMS/ROTOR FOR PUSHER/TAG
X	445-998	NO PUSHER OR TAG BRAKE CHAMBERS
X	429-998	NO PUSHER/TAG BRAKE DUST SHIELDS
X	626-998	NO PUSHER OR TAG SUSPENSION
X	627-998	NO PUSHER/TAG AXLE SPACING
X	874-998	NO PUSHER/TAG AXLE LIFT
X	896-998	NO PLUMBING FOR LIFT AXLE
X	509-998	NO PUSHER/TAG DISC WHEELS
X	526-998	NO PUSHER/TAG POLISHED WHEELS
X	495-998	NO PUSHER/TAG WHEEL MOUNTING NUTS
X	095-998	NO PUSHER/TAG TIRES

**ABS AND AIRING SYSTEM CONDOR HD**

X	490-100	WABCO 4S/4M ABS W/O TRACTION CONTROL ENHANCEMENT
X	882-041	ONE VALVE PARKING BRAKE SYSTEM (PP1) OFFSET TOWARDS DRIVERS POSITION
X	883-998	NO TRAILER HAND CONTROL BRAKE VALVE
X	878-001	INTERAXLE AND/OR DIFFERENTIAL LOCKOUT WITH INDICATOR LIGHT
X	890-998	NO 5TH WHEEL PLUMBING
X	901-001	COTTON BRAID HOSE FRONT SERVICE BRAKE
X	902-001	COTTON BRAID HOSE REAR SERVICE BRAKE
X	904-001	COTTON BRAID PARKING BRAKE HOSE
X	914-998	NO PLUMBING FOR AIR TO EOF
X	919-998	NO OPTIONAL CHASSIS AIR SYSTEM PIPING, VALVES, OR AIR UNLOADER SYSTEM
X	871-001	REINFORCED NYLON,FABRIC BRAID/WIRE BRAID CHASSIS AIR LINES
X	482-998	NO TRACTOR PROTECTION VALVE
X	476-998	NO AIR HOSE HANGER
X	481-998	NO TRAILER AIR HOSE
X	484-998	NO TRAILER CABLE & GLAD HAND STORAGE
X	460-008	STEEL AIR BRAKE RESERVOIRS MOUNTED INSIDE RAIL
X	46A-998	NO AUXILIARY AIR TANK BW DV-2 AUTO DRAIN VALVE W/ HEATER ON WET TANK ONLY;DRAIN VALVE CABLES ON ALL OTHER
X	477-019	TANKS
X	480-066	BW AD-9IP-EP BRAKE LINE AIR DRYER WITH HEATER (REQ'D FOR REFUSE VOCATION)
X	479-003	AIR DRYER MTD ON LH RAIL/ INBOARD
X	485-998	NO EXTERNAL CHARGING GLADHAND
X	488-998	NO AUXILIARY AIR OUTLET
X	498-998	NO TIRE VALVE STEM/GAP/EXTENSIONS

**WHEELBASE, FRAME & EQUIPMENT**

X	545-547	5475 mm (216") WHEELBASE
X	552-054	2275MM (40") REAR FRAME OVERHANG
X	546-101	11/32" X 3-1/2" X 10-15/16" STEEL FRAME (8.73MM X 277.8MM/.344" X 10.94") 120KSI
X	547-001	1/4" (6MM) C-CHANNEL INNER FRAME REINFORCEMENT
X	551-002	HUCK-SPIN ROUND COLLAR CHASSIS FASTENERS
X	549-083	4" BOLT-ON FRONT FRAME SPACER
X	558-001	FRONT TOW HOOKS - FRAME MOUNTED
X	587-003	REAR TOW HOOKS
X	553-001	SQUARE END OF FRAME
X	607-998	CHASSIS CONFIGURATION - NONE
X	560-001	UNDERSLUNG CROSSMEMBER (at transmission, engineering driven, n/a w/single rear axle)
X	562-001	STANDARD MIDSHIP CROSSMEMBERS
X	565-002	HEAVY DUTY SUSPENSION CROSSMEMBER
X	572-001	STANDARD REARMOST CROSSMEMBER
X	556-052	10" PAINTED STEEL BUMPER - HD 1/4"
X	574-001	BUMPER MTG FOR SINGLE LICENSE PLATE
X	575-998	NO REAR LICENSE PLATE BRACKET
X	578-998	NO FIFTH WHEEL
X	577-998	NO 5TH WHEEL LOCATION
X	579-998	NO FIFTHWHEEL RELEASE/INST.
X	582-998	NO 5TH WHEEL LEG HEIGHT
X	667-020	BLACK POLYURETHANE QUARTER FENDER BEHIND FRONT WHEEL
X	586-998	NO FRONT MUD FLAPS
X	585-998	NO MUD FLAP(S) BRACKETS
X	590-998	NO REAR MUDFLAP
X	592-998	NO DECK PLATE
X	665-998	NO CHASSIS ACCESS STEPS
X	583-998	NO REAR QUARTER FENDERS
X	754-001	2" FENDER EXTENSIONS
X	55C-998	NO SNOWPLOW DEVICE

**FUEL SYSTEMS/CONDOR HD**

X	204-156	100 GALLON / 378 LITER ALUMINUM FUEL TANK - LH
X	206-998	NO RH FUEL TANK
X	212-007	FUEL TANK(S) FORWARD
X	218-006	25" DIAMETER FUEL TANK(S)
X	215-005	PLAIN ALUMINUM/PAINTED STEEL FUEL TANK, PAINTED BANDS
X	219-004	FUEL DRAW - INBOARD
X	230-998	NO BETWEEN RAIL FUEL TANK
X	202-016	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE
X	216-020	INBOARD FUEL SYSTEM
X	213-998	NO FUEL LINE INSULATION
X	220-998	NO FUEL HEATER
X	221-001	FUEL COOLER (diesel engine only)

**FUEL TANK ACCESSORIES**

X	205-001	FUEL TANK CAP(S)
X	207-998	NO FUEL TANK SCREENS
X	232-505	5 GALLONS ADDITIONAL FUEL
X	210-008	MAGNETIC DRAIN PLUG FOR FUEL TANK (DIESEL TANK ONLY)
X	122-1D4	DAVCO 382 FUEL/WATER SEPARATOR WITH WATER SENSOR LIGHT

**CAB EXTERIOR**

X	829-068	68" BBC LOW CAB FORWARD ALUMINUM CAB
X	653-015	RH CAB DOOR WITH 90 DEGREE DOOR STRAP
X	651-015	LH CAB DOOR WITH 90 DEGREE DOOR STRAP
X	657-001	ALL CAB LOCKS AND IGNITION KEYED THE SAME
X	655-001	CAB DOOR LATCHES WITH MANUAL DOOR LOCKS
X	650-009	RUBBER CAB MOUNTS
X	677-005	FIXED CAB MOUNTED STEPS RH/LH FOR CAB ENTRY
X	688-001	TWO GRABHANDLES MOUNTED ON FRONT OF CAB BELOW WINDSHIELD
X	663-013	TINTED WINDSHIELD
X	767-998	CAB SIDEWALL WINDOWS - NONE
X	661-006	CAB DOOR WINDOWS - TINTED, LH/RH
X	768-032	CAB BACKWALL WINDOW - (1) TINTED 20"X36" CENTER, FIXED
X	769-998	CAB LOWER DOOR WINDOW - NONE
X	670-012	HYDRAULIC CAB TILTMECHANISM WITH MANUAL PUMP, LOCATED BEHIND CAB RH SIDE
X	671-001	HYDRAULIC CAB LATCH
X	744-007	DUAL CAB MIRRORS - VELVAC 7" X 16", STAINLESS STEEL, MANUAL ADJUSTMENT, NON-HEATED, WITH LOWER 8" ROUND CONVEX
X	74A-998	NO MIRROR AUXILLARY UPPER - DOWN VIEW, CAB SIDE
X	065-000	PAINT--CAB ONE SOLID COLOR
X	980-32B	CAB COLOR A: B91776 WHITE PPG
X	984-993	BUMPER PAINTED SAME AS CHASSIS
X	986-020	BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT
X	963-002	RUST PREVENTION COATING ON UNDERSIDE OF CAB
X	764-998	NO CAB EXTERIOR SUN VISOR
X	649-998	NO FRONT CAB GUARD
X	648-998	NO RADIATOR GRILLE SCREEN
X	646-028	PAINTED CAB MTD GRILL W/QUIK-RELEASE LATCHES
X	674-998	NO CAB GRAB HANDLE CHASSIS ACCESS
X	660-002	CAB WINDSHIELD WIPER - DUAL ELECTRIC MOTORS WITH DELAY FEATURE
X	659-003	1 GALLON WINDSHIELD WASHER RESERVOIR

**CAB INTERIOR**

X	678-006	INTERIOR AND EXTERIOR GRAB HANDLES FOR CAB ACCESS ON DRIVER AND PASSENGER SIDES
X	690-002	TUNNEL/FIREWALL LINER
X	691-001	FORWARD ROOF MOUNTED CONSOLE
X	739-020	CAB INSULATION W/ADDITIONAL NOISE/ THERMAL TREATMENT
X	765-002	DRIVER / PASSENGER INTERIOR SUN VISORS
X	700-002	HEATER, DEFROSTER AND AIR CONDITIONER
X	703-014	MAIN HVAC CONTROLS WITH MANUAL AIR CONDITIONER ON/OFF SWITCH
X	701-001	STANDARD HVAC DUCTING
X	170-015	STANDARD HEATER PLUMBING
X	698-001	RADIATOR MTD A/C CONDENSER
X	130-003	SANDEN COMPACT AIR CONDITIONER COMPRESSOR
X	702-012	BINARY CONTROL, R-134A, W/RECEIVER DRIER
X	707-019	GRAY STANDARD INTERIOR
X	679-001	OVERHEAD INSTRUMENT PANEL
X	680-004	LOW CAB FORWARD DASH
X	772-003	SLIP RESISTANT FLOORING
X	708-021	RH INTERIOR DOOR TRIM, ABS UPPER AND LOWER PAINTED ALUMINUM
X	706-021	LH INTERIOR DOOR TRIM ABS UPPER AND LOWER PAINTED ALUMINUM
X	711-998	NO DOOR MOUNTED ARM REST

X	654-011	RH AND LH ELECTRIC POWERED WINDOWS
X	532-002	ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN
X	540-020	2-SPK 450MM(18") BLACK STEERING WHEEL(S)
X	185-004	STANDARD FOOT PEDAL SYSTEM
X	756-082	BOSTROM 910 MID BACK TALLADEGA AIR SUSPENDED DRIVER'S SEAT
X	758-032	FLAT VINYL, DRIVER'S SEAT
X	760-232	NATIONAL 2000 SERIES MID-BACK NON-SUSPENSION PASSENGER SEAT (N/A ON DUAL DRIVE TRUCKS)
X	761-032	FLAT VINYL, PASSENGER SEAT
X	762-998	NO REAR CREW SEATS
X	755-998	NO SEAT COVERS PASSENGER,REAR
X	763-011	3 POINT ADJUSTABLE D-RING RETRACTOR DRIVER AND PASSENGER SEATBELTS
X	757-998	NO SEAT SKIRT(S)
X	759-002	ARMREST INBOARD DRIVER AND PASSENGER SEATS
X	67A-002	ADDITIONAL CAB INTERIOR TRIM
X	693-019	LH/RH DOOR STORAGE POCKETS INTEGRATED INTO MOLDED DOOR PANELS
X	785-998	NO DASH MOUNTED ASH TRAYS & LIGHTER
X	720-003	5 LB. FIRE EXTINGUISHER
X	722-998	NO REFLECTOR/FLARE KIT
X	714-998	NO FIRST AID KIT

**INSTRUMENTS AND CONTROLS**

X	732-006	INTEGRAL GAUGES MTD IN INSTUMENT PANEL CLUSTER
X	734-004	GRAY CENTER INSTRUMENT PANEL
X	870-001	BLACK GAUGE BEZELS
X	017-072	CONDOR STANDARD GAUGE PACKAGE
X	810-027	ELECTRONIC MPH SPEEDOMETER W/ SECONDARY KPH SCALE, W/O ODOMETER
X	812-001	ELECTRONIC TACHOMETER 3000 RPM
X	844-021	2" ELECTRIC FUEL GAUGE WITH INTEGRATED DEF GAUGE
X	847-002	IN TANK FUEL LEVEL SENDER(S)
X	840-001	DUAL NEEDLE PRIMARY AND SECONDARY AIR PRESSURE GAUGE (PSI ONLY)
X	486-001	LOW AIR PRESSURE LIGHT AND BUZZER
X	852-002	ELECTRIC ENGINE OIL PRESSURE GAUGE (PSI ONLY)
X	854-001	ENGINE OIL TEMPERATURE GAUGE
X	856-001	ELECTRICAL ENGINE COOLANT TEMP GAUGE
X	198-006	ENGINE COMPARTMENT MOUNTED AIR RESTRICTION INDICATOR WITH GRADUATIONS, WITH WARNING LIGHT IN DASH
X	864-001	TRANSMISSION OIL TEMPERATURE GAUGE
X	866-998	NO AXLE TEMPERATURE GAUGE
X	838-998	NO AIR APPLICATION GAUGE
X	830-005	(2) HOBBS ENGINE HOURMETERS: (1) ENGINE HOURMETER, (1) P.T.O. OPERATION HOURMETER
X	836-010	VOLTMETER; LOW VOLTAGE WARNING LIGHT & BUZZER
X	846-998	NO AMMETER
X	726-001	SINGLE ELECTRIC HORN
X	727-072	HADLEY AIR HORN, SINGLE BASE; 2 TRUMPETS DUAL TONE 12.5/10.25" MTD BEHIND GRILLE
X	736-998	NO OBSTACLE DETECTION SYSTEM
X	73A-998	NO REAR REFLECTIVE DEVICE
X	746-1AF	AM/FM/WB RADIO
X	747-002	ROOF/OVERHEAD CONSOLE MOUNTED RADIO
X	748-998	NO CB RADIO/PROVISION
X	75A-998	NO RADIO-MTG,UHF/VHF
X	749-998	NO CB RADIO MOUNTING PROVISION
X	750-002	(2) RADIO SPEAKERS (CAB ONLY)
X	752-998	NO CB ANTENNA, BRACKET OR LEAD
X	753-018	AM/FM FLEXIBLE COMPOSITE ANTENNA MTD ON LH FRONT A-PILLAR

**ELECTRICAL SYSTEMS AND CONTROLS CONDOR HD**

X	280-008	TRUCK ELECTRICAL SCHEMATIC/MANUAL 12V
X	285-005	AUTO SELF-RESET CIRCUIT BREAKERS AND FUSES
X	298-019	NON-POLARITY SENSITIVE ELECTRONIC FLASHER
X	320-004	STANDARD WIRING
X	324-068	DOOR ACTIVATED CENTER DOME LAMP W/SWITCH
X	339-998	NO INTERLOCK/ELECTRICAL LOAD MANAGER
X	860-002	STANDARD WIRING-CAB,DASH,CENTER
X	329-998	NO EXTRA SWITCH IN DASH
X	284-045	(2) DASH MNTD POWER RECEIPT (REQUIRES 785-998 NO DASH 12 V. OUTLETS)
X	300-014	STANDARD FRONT WITH SURFACE MOUNTED SIDE AUX TURN SIGNAL
X	312-003	DUAL RECTANGULAR HALOGEN HEADLIGHTS
X	316-998	NO SPOTLIGHTS
X	318-998	NO UTILITY/ADVERTISING LIGHT

X	315-998	NO ROADLIGHTS
X	302-001	(5) AMBER LED MARKER LIGHTS
X	294-025	WIRING HARNESS ONLY TO END OF FRAME FOR STOP, TAIL, TURN SIGNALS
X	311-998	NO DAYTIME RUNNING LIGHTS
X	304-012	HEADLIGHT SW W/INTEGRAL PANEL DIMMER, MARKER LAMPS WIRED TO BATT SW
X	299-020	SELF-CANCEL TURN SIGNAL SWITCH W/DIMMER, HEADLAMP FLASH, WASH/WIPE/INTERMITTENT
X	721-998	NO BACKUP ALARM
X	717-998	NO SMOKE/CO2 DETECTOR
X	310-998	NO TRAILER ELECTRICAL CABLE
X	296-998	NO SPECIAL PRIMARY RECEPTACLE WIRING
X	297-998	NO TRAILER CABLE RECEPTACLE
X	331-998	NO SUPPLEMENTAL ISO 3731 7-WAY TRAILER ABS RECEPTACLE
X	303-998	NO ADDITIONAL TRAILER CABLE RECPT

**VOCATION AND COMMODITY**

X	A84-1SA	SANITATION BUSINESS SEGMENT
X	A85-001	REFUSE SERVICE
X	AA1-002	TRUCK CONFIGURATION
X	AA2-998	NO TRAILER SPECIFIED
X	AA3-010	ROLL OFF/ROLL ON BODY
X	AA4-005	BUILDING MATERIAL COMMODITY
X	AA5-006	10% (SOME) OF THE TIME, IN-TRANSIT, IS SPENT ON NON-PAVED ROADS
X	AB1-012	MAXIMUM 12% EXPECTED GRADE
X	AB5-002	ROUGH, MAINTAINED CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE
X	AH6-998	NO TRAILERS
X	A63-99D	EXPECTED GROSS VEHICLE WEIGHT CAPACITY = 66,000 LBS
X	A66-99D	EXPECTED FRONT AXLE(S) LOAD = 20,000 LBS
X	A66-99D	EXPECTED REAR DRIVE AXLE(S) LOAD = 46,000 LBS
X	AA6-002	DOMICILED, USA 49 STATES (WITHOUT CALIFORNIA)

**NOTES/SPECIAL REQUESTS**

X	549-NOTE	EXTENDED AREA AT THE TOP OF THE BUMPER NEEDS TO BE COVERED WITH 1/4" PLATE OR EXPANDED METAL
X	720-NOTE	FIRE EXTINGUISHER MOUNTED ON THE FLOOR NEXT TO DRIVER'S SEAT, ACCESSABLE BY OPENING THE DRIVER'S SIDE DOOR
X	168-NOTE	BOLT ON SKID PLATE FABRICATED FROM 3/16" STEEL PLATE, W/MAX GROUND CLEARANCE AND ACCESS TO FILTERS AND DRAINS
X	239-NOTE	EXHAUST HEIGHT OF 12' 10" WITH A TOLERANCE OF +0'-2" FROM GROUND LEVEL
X	304-NOTE	OUTER CAB MARKER LIGHTS TO BE ILLUMINATED WHEN BATTERY SHUT OFF SWITCH IS IN THE "ON" POSITION
X		PURADYNE PFI-40 40 QUART OIL FILTRATION SYSTEM INSTALLED BY DEALER
X		ENGINE & TRANSMISSION EXTENDED WARRANTIES SUPPLIED BY DEALER
X		DELIVERY TO BODY COMPANY IN 120 TO 150 DAYS
X		DEALERSHIP: CONDOR OF SOUTH FLORIDA, 2911 S. ANDREWS AVE., FT. LAUDERDALE, FL. 33316
X		SALESMAN: BILL BROCKMEIER (305)731-3010 EMAIL: bbrock@truckmax.com
X		SHIP TO:
X		END USER: MIAMI-DADE COUNTY



# Turning Radius Report

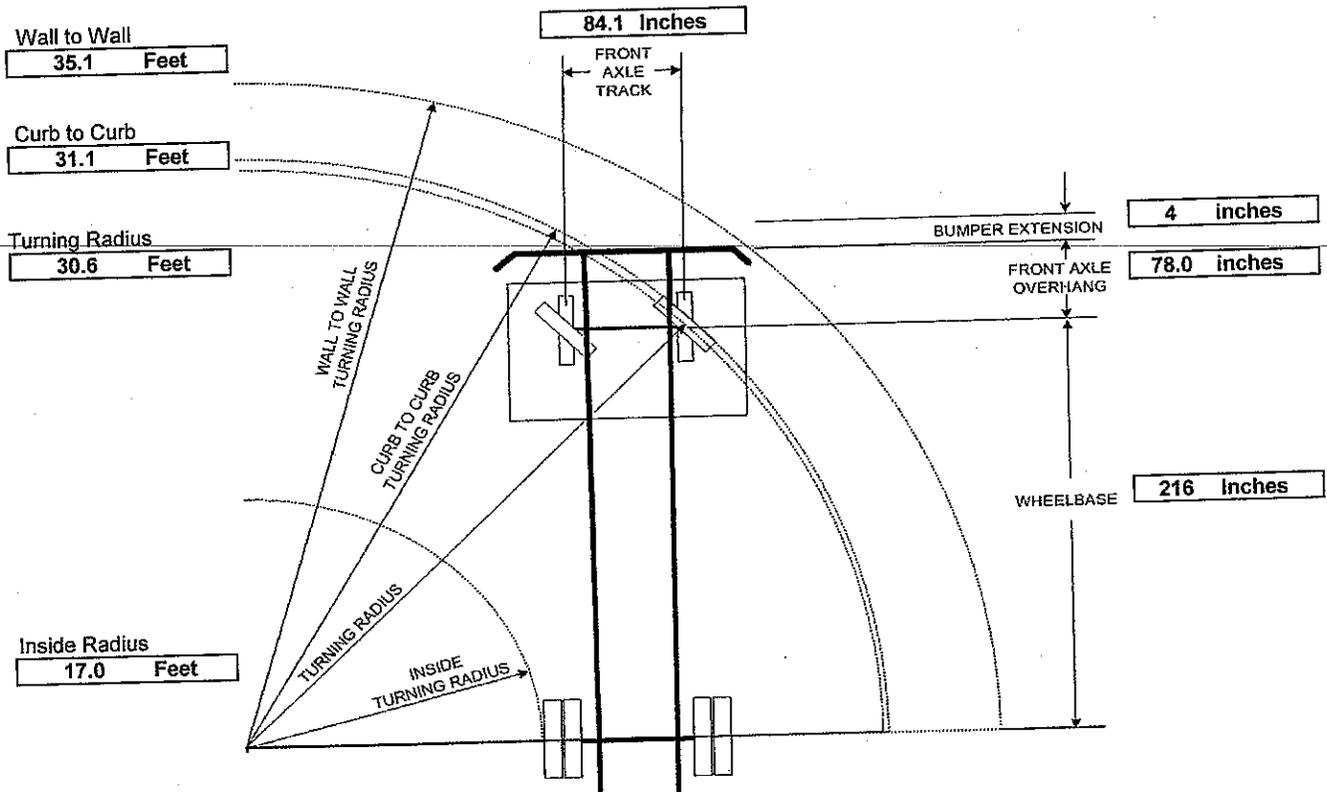
Prepared for: MIAMI-DADE COUNTY

Project: XXXXX

### Calculation Input Information :

Chassis Type: CONDOR LOW CAB FORWARD CHASSIS  
Front Axle: Front Axle Package, 20,000 lbs, Meritor, MFS-20-133A  
Front Tire: GOODYEAR G289 WHA 315/80R22.5 20 PLY RADIAL  
Front Wheel: ACCURIDE 29039 22.5X9.00 10-HUB PILOT 5.25 INSET 5-HAND STEEL DISC  
Front Brakes: Meritor 16.5"x 7" Q+ Drum Brakes  
Rear Axle: RT-46-160 R-Series Rear Axle @ 46,000#  
Rear Wheel Type: Steel Wheels  
Front Frame Ext: 4" Bolt-On Fire Service Front Frame Extension

45	Maximum Turning Angle of Selected Axle in Degrees
45	Maximum Turning (Cramp) Angle of Axle with Selected Wheel Equipment in Degrees



The measurements provided are based on perfect Ackerman geometry. This is impossible to achieve on an actual chassis. The measurements could be plus or minus up to two feet based on the actual chassis produced. These measurements are meant to be used for general information and should not be used to design any permanent buildings or roadways.



## Condor On/Off-Highway Warranty

Coverage	Time <sup>1</sup>	Distance <sup>1</sup>
<b>BASIC VEHICLE</b> Coverage includes all factory-installed components of the vehicle/chassis that are not excluded elsewhere in the warranty, or by special agreement or described as having a different time, or distance or hours, or listed separately on this new vehicle warranty coverage chart.	1 yr	Unlimited
<b>ALLIANCE BATTERY</b> Only Company's private brand-label batteries sold under the Alliance Parts brand name will be warranted. Claims for all other brands must be submitted directly to the supplier. Warranty coverage includes the battery assembly only.	1 yr	100,000m/ 161 000k
<b>BRIGHTWORK</b> Coverage includes all factory-installed components with chrome, polished aluminum, or polished stainless steel surfaces. Excludes any damage to bumper, backside of bumpers, and concealed or inner surfaces.	6 mo	Unlimited
<b>CAB CORROSION/PERFORATION</b> Coverage is limited to rust-through or perforation of the cab and integral sleeper structure and sleeper box (if applicable) due to corrosion from within. Excludes all conditions of rust or corrosion that have not resulted in rust-through or perforation as well as surface rust or corrosion caused by non-adhesion. Excludes any damage to the paint such as chips or scratches.	5 yr	Unlimited
<b>CAB STRUCTURE</b> Coverage includes cab and integral sleeper structural components, structural components of factory installed sleeper boxes (if applicable), sheet metal panels, doors, and hoods. Excludes all bolt-on components including door and hood hinges, latches, guides, and other mounting hardware.	3 yr	Unlimited
<b>CORROSION</b> Coverage provides warranty against corrosion to any metal or metal alloy part of the vehicle. Exclusions to warranty include, but are not limited to, corrosion or rust on tone rings, rotors or drums (not including hydraulic disc rotors) and corrosion caused by general rust (for example, rust on the unfinished backside of a bumper); severe wash solutions, cleaning solvents, detergents, compounds, high-pressure washing; corrosive road salts/ chemicals or environmental damage (including ocean spray); airborne fallout (includes chemicals, tree sap, etc.), or other atmospheric conditions or other acts of nature; improper use, misuse or abuse, negligence including improper or insufficient maintenance; salinity in the environment or corrosive salts and/or chemicals used on the road surface; acid rain or other industrial fallout; surface rust caused by chips or scratches in the paint or chrome surfaces; improper prevention measures during storage or use.	6 mo	Unlimited
<b>CROSSMEMBERS</b> Coverage includes crossmembers, gussets, and huck-mounting bolts that attach gussets to crossmembers and gussets/crossmembers to frame rails. Excludes any bolt-on item attached with either conventional or huck bolts.	5 yr	300,000m/ 483 000k
<b>DRIVE AXLE</b> Coverage includes axle housing, carrier assembly, differential assembly, power divider, axle shafts, and gaskets and seals. Excludes suspension and torque rod brackets, wheel-end equipment, wiring, yokes, and attaching hardware.	3 yr	Unlimited
<b>FRAME RAILS</b> Coverage is limited to breaking or cracking of factory-installed frame rails, frame rail liners, frame rail extensions, and any item(s) factory-welded to them. Excludes all bolt-on items regardless if attached with conventional or huck bolts.	5 yr	300,000m/ 483 000k
<b>PAINT</b> Warranty covers factory-painted Body/Cab/Cowl (except what is covered under chassis paint) against orange peel, peeling/delaminating, cracking/checking, or loss of gloss due to cracking/checking.	1 yr	100,000/ 161 000k
<b>PAINT, CHASSIS</b> Coverage includes all factory-painted surfaces on frame rails, crossmembers/gussets, front and rear bumpers, suspension components, power train components, drivelines, fuel tanks, air tanks, wheel end equipment, tool boxes, battery boxes, access steps, and attaching brackets and hardware. Warranted against peeling or non-adhesion. Excludes U-joints and any damages to the paint or painted surface such as chips and scratches.	6 mo	Unlimited
<b>TRANSMISSION (file direct)</b> Coverage includes housing and all internally-lubricated parts, electric/air shift/control units, valves, gaskets, and seals. Excludes broken synchronizer pins, PTOs, transfer case(s), airlines, gauge senders, yoke(s), clutch, and clutch control components including clutch brake. Excludes Allison automatic transmissions and Twin Disc Automatic Transmissions.	2 yr	Unlimited

<sup>1</sup>Time or distance, whichever occurs first.

CATEGORY-3 APPLICATIONS – SEVERE SERVICE refer to data books for specific application category requirements		CATEGORY-4 APPLICATIONS – SEVERE SERVICE refer to data books for specific application category requirements	
Road Surface— most severe in-transit between sites	Up to 25% OFF-HIGHWAY (rough concrete or asphalt roads)	Road Surface— most severe in-transit between sites	Up to 40% off-highway
GCW with the below axles	140,000 lb/ 63 505 kg or less using the below manufacturers GVW rating	GCW with the below axles	140,000 lb/ 63 505 kg or less using the below manufacturers GVW rating
2-axle unit	Up to and including 46,000 lb/ 20 866	2-axle unit	Up to and including 58,000 lb/ 26 310 kg
3-axle unit	Up to and including 66,000 lb/ 29 938	3-axle unit	Up to and including 76,000 lb/ 34 475 kg
4-axle unit	Up to and including 78,000 lb/ 35 381	4-axle unit	Up to and including 86,000 lb/ 39 010 kg
5-axle unit	Up to and including 90,000 lb/ 40 824	5-axle unit	Up to and including 98,000 lb/ 44 453 kg

## 1.0 New Vehicle Limited Warranty

Under this New Vehicle Limited Warranty ("Warranty"), Company warrants that each new vehicle will be free from defects in material and workmanship that occur under normal use within the applicable warranty period, subject to certain limitations and exclusions as specified in this document.

This warranty covers all components and parts unless specifically covered by other warranties or otherwise excluded by this document.

### 1.1 Limitations

This warranty does not apply to vehicles that are sold or domiciled outside of the United States (50 states and Washington, D.C.) and Canada.

This warranty does not apply to engines, Allison transmissions, tires, or other components or parts that are not manufactured by Company and that are warranted directly by their respective manufacturers. Progressive damage caused by these manufacturers' components to any other parts including, but not limited to, parts installed by Company is excluded from Company warranty coverage. With respect to the foregoing, Company makes no warranty whether express, implied, statutory or otherwise including, but not limited to, any warranty of merchantability or fitness for a particular purpose.

**THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES OF ANY KIND WHETHER WRITTEN, ORAL, OR IMPLIED INCLUDING, BUT NOT LIMITED TO ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS WARRANTY SPECIFICALLY EXCLUDES ANY OTHER WARRANTIES OR CONDITIONS PROVIDED FOR BY LAW, WHETHER STATUTORY OR OTHERWISE.**

**COMPANY'S SOLE OBLIGATION UNDER THIS WARRANTY SHALL BE TO REPAIR OR REPLACE, IN COMPANY'S SOLE DISCRETION, ANY DEFECTIVE COMPONENT OR PART. SUCH REPAIR OR REPLACEMENT SHALL BE WITHOUT COST TO PURCHASER WHEN PERFORMED WITHIN THE APPLICABLE WARRANTY PERIOD (TIME, DISTANCE, OR HOUR LIMIT, WHICHEVER OCCURS FIRST).**

Purchaser must notify Company within the applicable warranty period, of any failure of the vehicle to comply with this warranty and Purchaser must, at Purchaser's expense, promptly return the vehicle to an authorized Dealer for inspection and repair or replacement of any defect in material or workmanship occurring within the applicable warranty period.

The vehicle must be maintained and serviced according to the prescribed schedules outlined in the Driver's/Operator's and Maintenance Manuals. Receipted bills and other evidence that required maintenance and service have been performed are required by Company as a condition of this warranty.

After the Company's obligations under this warranty expire, all liabilities of Company to Purchaser under this warranty shall terminate. Repairs made under this warranty do not constitute an extension of the original warranty period for the vehicle or for any specific component or part.

To the extent that any provision of this warranty contravenes the law of any jurisdiction, such provision shall be inapplicable in such jurisdiction, and the remainder of the warranty shall not be affected.

## 1.2 Purchaser's Exclusive Remedy

**THIS WARRANTY SHALL BE THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY AGAINST COMPANY, WHETHER IN CONTRACT, UNDER STATUTE (INCLUDING STATUTORY PROVISIONS AS TO CONDITIONS AS TO QUALITY OR FITNESS FOR ANY PARTICULAR PURPOSE OF GOODS SUPPLIED PURSUANT TO THE CONTRACT OF SALE), WARRANTY, TORT, STRICT LIABILITY, OR ANY OTHER LEGAL THEORY.**

### 1.3 Limitation of Liability

**COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE COST TO REPAIR OR REPLACE, IN COMPANY'S SOLE DISCRETION, THE DEFECTIVE COMPONENT OR PART THAT IN NO EVENT SHALL EXCEED THE FAIR MARKET VALUE OF THE VEHICLE AT THE TIME THE DEFECT IS DISCOVERED.**

**IN NO EVENT SHALL COMPANY BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES INCLUDING, BUT NOT LIMITED TO, INJURIES TO PERSONS OR DAMAGE TO PROPERTY, LOSS OF PROFITS OR ANTICIPATED PROFITS, OR LOSS OF VEHICLE USE.**

### 1.4 Exclusions

The following components, parts, or conditions, are specifically excluded from coverage under this warranty.

#### AIR COMPRESSORS, ENGINE BRAKES, AND OTHER PROPRIETARY ENGINE COMPONENTS

The engine manufacturer installs most air compressors and engine brakes. Any failure of a proprietary engine component or Jacob® Brake component must be filed directly with the engine manufacturer. Failures on non-proprietary components can be filed through Freightliner LLC Dealers.

#### AIR SPRINGS

Tolerance buildup can occur during the assembly process of the rear suspension and rear cab air springs and can cause the springs to have the appearance of being crooked, misaligned, or mis-installed. This tolerance buildup is not detrimental to the operation of the vehicle and will not have an affect on either the quality of the ride or the durability of the components or vehicle. Straightening of these springs is not covered under this warranty.

#### ALLISON TRANSMISSIONS

Allison transmissions and components are not covered under this warranty, but are warranted separately by Allison. Information regarding Allison's warranty is provided for informational purposes only and is subject to change. For warranty or service information, contact Allison's authorized sales and service facility.

#### ALIGNMENT OF AXLES/WHEELS/STEERING WHEEL

Each manufacturing plant uses an integrated alignment system to align axles and wheels and to center the steering wheel to Company specifications. Realignment or readjustment of these items is not covered under warranty.

Any special alignment settings at the request of the Owner must be handled between the Dealer and Owner after delivery from factory. These special adjustments are not covered under warranty.

#### AXLE BREATHER VENTS

During the vehicle manufacturing process, an oil run or drip stain may appear at the breather vent. Removing the vent, applying pipe sealant to the threaded vent fitting, and re-installing the vent is unnecessary. Removing the axle breather

vent and re-sealing the threaded fitting is not covered under this warranty.

### **CAB INTERIOR COMPONENTS**

The repair or replacement of cab interior components that are rendered unserviceable due to normal wear or abuse are not covered under this warranty. These components include, but are not limited to:

- Upholstery
- Floor coverings (including floor mats)
- Curtains
- Window shades
- Steering wheel
- Steering wheel wrap

### **CHROME SURFACES, ALUMINUM AND STAINLESS STEEL COMPONENTS**

The following items ARE covered under this warranty:

- Chrome peeling off in sheets
- Chrome cut at mounting bolts due to over-torque at the factory
- Bubbles in the chrome that are not caused by rock chips and/or general rust conditions
- Isolated rust along seams or welds

The following items are NOT covered under this warranty:

- General rust, for example, rust on the unfinished backside of a bumper
- Dimpling at the mounting bolts
- Staining, bluing, and/or yellowing that can be cleaned with a quality cleaning-product
- Rust, pits, and/or nicks caused by road wash or road debris breaking the chrome surface
- Streaks/stains/corrosion caused by severe wash solutions or corrosive road salts/chemicals

Claims pertaining to failures of chrome surfaces, aluminum, and stainless steel components will not be processed unless a clear digital picture is provided that adequately shows the defect.

### **CLUTCH ADJUSTMENT**

Clutch adjustments are normally required due to clutch wear and are considered normal maintenance. However, if the clutch adjustment is found to be outside of Company specifications during, or prior to, in-service of the vehicle, a warranty claim will be accepted on a one-time basis.

Claims for clutch adjustments will not be accepted unless the adjustment is found to be outside of Company specifications using the special clutch adjustment measuring tools provided by Company (e.g., adjusting the clutch to satisfy feel will not be accepted as warranty).

### **COMPETITION**

Warranty will become void on any vehicle that is used in competition, including but not limited to:

- Racing
- Tractor pulls
- Other motor sports

### **CONSUMABLE PARTS**

Parts that are subject to consumption during their normal service life and are routinely replaced during normal maintenance services are only covered under this warranty during the initial operating period. These items are:

- Antennas
- Ashtrays
- Belts

- Brake linings
- Cigarette lighter element<sup>(143)</sup>
- Clutch brake
- Clutch linings
- Data logger batteries
- Desiccant cartridges
- Fire extinguishers
- Fluorescent ballast and tubes
- Fuses
- Gladhand
- Hosetennas
- Light bulbs
- Mattresses
- Mud flaps
- Mud flap mounting brackets
- Radiator cap
- Receiver-drier filter
- Sealed light assemblies
- Trailer air hoses
- Trailer electrical cables
- Windshield washer nozzles
- Wiper arms and blades

Consumable parts NOT covered under this warranty include, but are not limited to, the following:

- Antifreeze
- Filters (fuel, air, oil, water)
- Fluids (unless low due to a warrantable failure)
- Lubricants

### **CORROSION**

Rust or corrosion to specific components and/or caused by certain conditions are excluded from all Company warranty coverage and will not be paid under Basic Vehicle, Cab Structure, or Cab Corrosion.

The following exclusions to warranty include, but are not limited to:

- Corrosion caused by general rust (for example, rust on the unfinished backside of a bumper)
- Surface rust caused by chips or scratches in the paint or chrome surfaces
- Corrosion caused by high-pressure washing, severe wash solutions, cleaning solvents, detergents, compounds
- Corrosion caused by salinity in the environment or corrosive salts and/or chemicals used on the road surface
- Corrosion caused by acid rain or other industrial fallout
- Corrosion due to improper prevention measures during storage or use.
- Corrosion or rust on tone rings, rotors or drums (not including hydraulic disc rotors).
- Corrosion due to environmental damage (including ocean spray); airborne fallout (includes chemicals, tree sap, etc.), or other atmospheric conditions or other acts of nature
- Corrosion due to improper use, misuse or abuse, negligence, including improper or insufficient maintenance

### **DAMAGE**

The following are not covered under this warranty:

- Damage caused by use of the vehicle in any application that is not approved or is inconsistent with build specifications

- Damage resulting from improper use or misuse or abuse, negligence, improper operation, improper or insufficient maintenance (including, but not limited, to failure to maintain vehicle as outlined in the driver's/operator's and maintenance manuals), overloading, unauthorized modifications, accidents, or operation at excessive speeds
- Environmental damage, including airborne fallout (including chemicals, tree sap, etc.) or other atmospheric conditions, hailstones, or other acts of nature
- Damage caused by road salts/chemicals or cleaning solvents, detergents, or compounds
- Storage deterioration including damage caused by improper or insufficient storage or maintenance
- Damage caused by road hazards or road conditions
- Damage caused during transport
- Damages (including peeling or flaking) caused by high-pressure washing or steam-cleaning
- Damages occurring after in-service (e.g., from rock chips)
- Damages caused by customer-installed sealer in air conditioning systems
- Damages caused by engine horsepower/torque upgrades
- Damage due to vibration associated with misapplication or mis-operation of drivetrain components
- Damage due to terrorist activities
- Damage due to acts of war

#### **ENGINE**

The engine, including all of its components as supplied by the manufacturer, is not covered under this warranty, but is warranted separately by the manufacturer of the engine. For engine warranty or service, contact the engine manufacturer's authorized sales and service facility.

#### **EXHAUST SYSTEM CLAMPS**

During the early life of the vehicle or when the engine is cold, many exhaust clamps exhibit a soot trace. This condition is self-correcting and does not require adjustment, tightening, or replacement of the clamp. Claims for adjusting or tightening will not be paid under warranty.

#### **FIFTH WHEELS**

Adjustment of the locking mechanism, slide locking plungers, and the repair or replacement of lock guards are considered routine maintenance and are not covered under this warranty.

#### **FIRE PUMPS**

Fire pump warranty applies only to pumps that have been specified on the original truck sales order (TSO).

#### **GLASS, MIRRORS, LENS**

Glass, mirror or lens breakage or chips or scratches of glass, mirrors, or lenses are not covered by this warranty.

#### **MISAPPLICATION OF VEHICLE**

The warranty on any vehicle used inconsistent with its specified vocation/application will be downgraded to the warranty that is consistent with the vehicle use. Any and all claims associated with the misapplication of the vehicle will be subject to chargeback.

#### **MISCELLANEOUS EXPENSES**

Premium charges and work not directly related to the repair or replacement of a warranted part are not covered under this warranty. Examples include, but are not limited to:

- Federal, state, provincial, and local taxes
- Travel expenses
- Loss of revenue
- Customer labor including overtime labor
- Downtime
- Driver's expenses

- Cost of rental equipment
- Loss of cargo, including perishable cargo
- General housekeeping supplies (i.e. rags, solvents, sweeping compounds, coveralls, etc.)
- Communication charges
- Towing/road call assistance (unless coverage is specifically stated in the applicable warranty table)
- Repair or replacement of optional items not sold or installed by Company
- Removal or replacement of dealer, body builder, or customer-installed equipment
- Environmental fees
- Environmental cleanup
- Cost of emergency services

#### **MODIFICATIONS TO ORIGINAL EQUIPMENT**

Company does not warrant vehicle component or chassis modifications or equipment installations arranged by Dealers or Customers. In addition, the extra time necessary to remove body builder installed items and/or equipment to work on a warranted repair is not covered under this warranty unless Company sells the complete chassis/body/equipment as a package.

If Dealers or Customers perform any vehicle modifications or equipment installations, to the extent these modifications or equipment installations adversely affect other vehicle components or vehicle performance, Company shall not accept any product liability or claims under the terms of the vehicle warranty. These claims become the sole responsibility of the person performing the modifications or equipment installations.

#### **PAINT**

The following exclusions to paint warranty include, but are not limited to:

- Complete chassis repainting to repair paint damages
- Damages occurring after in-service (e.g., from rock chips)
- Peeling/flaking caused by high-pressure washing or steam cleaning
- Rusting of painted bumpers
- Removal and/or replacement of decals, striping, and/or lettering not applied by Company

Specific areas of the vehicle are **deliberately not painted** or are not painted to any standard and paint repairs are not warrantable, including, but not limited to:

- Underside of the hood, including the inside of the wheel wells
- Underside of the roof-mounted air fairings
- Underside of the exterior sun visor
- Inside of the side-mounted air fairings
- Inside of the bumper

Gloss warranty claims pertaining to gloss issues on vehicles painted with low-gloss colors (as identified in the Data Books) are the Dealer's responsibility and will not be honored by warranty.

#### **ROUTINE MAINTENANCE**

Routine maintenance, servicing, and adjustment, as defined in the applicable Vehicle Maintenance Manual and Driver's Manual, are excluded from warranty.

Periodic adjustment or retorque of wheel bearings, wheel lug nuts, and suspension U-bolts are considered maintenance adjustments and are not covered under warranty.

Vibrations, squeaks, rattles, loose fittings/clamps, hose fitting leaks, loose nuts/bolts/screws, and loose electrical connections may develop during the initial trip(s) of the vehicle and these types of repairs/adjustments are covered under warranty one time during the following applicable initial operating periods unless excluded in the paragraphs below.

Reminder: After the **initial operating period (up to 15,000m/24 000k)**, the following developments are the result of use and their repair/adjustment activities are considered routine maintenance and thus excluded from warranty.

Exclusions from warranty during the initial operating period are: Cab, hood, and fender-mounted mirrors are adjusted at the factory but may be retracted by the transporter to prevent damage during transport. Subsequent adjustments and tightening of mirror mounting hardware are considered part of the routine preparation of the vehicle before Customer delivery. Claims for adjusting the mirrors or tightening of the attaching hardware will not be paid under warranty during the initial operating period or after.

Claims for re-routing of electrical wiring, hoses, or lines which meet Company's routing standards will not be paid under warranty during the initial operating period or after.

Final preparation of the vehicle for Customer delivery to include cleaning/vacuuming interior of cab, washing windows, washing the exterior of the vehicle, polishing exterior chromed or painted surfaces are considered as delivering-Dealer responsibilities. Claims for these activities will not be paid under warranty during the initial operating periods or after.

The following is a summary of PDI activities, (as stated in the applicable vehicle service manuals), where the labor time for performing the activity is included in the normal PDI reimbursement process:

- Adjusting headlights
- Adjusting tire pressure
- Tightening of fittings, clamps, and connections on airlines; engine oil lines, radiator, coolant, and heater hoses; fuel lines; power steering and other hydraulic brake or clutch lines
- Tightening of spring/suspension u-bolts
- Tightening of drain and fill plugs
- Tightening of battery cable clamps and connections
- Torquing of drive-axle flanged fasteners
- Torquing of wheel nuts

Warranty claims for these repairs or adjustments will be allowed once during the initial operating period if performed by a Dealer other than the Dealer performing the PDI. Claims for these repairs or adjustments will not be accepted from the Dealer or center performing the PDI.

#### **SHIP LOOSE ITEMS AND COMPONENTS**

During the manufacturing process, certain vehicle components are normally placed in the cab of the vehicle or strapped down to the chassis for security reasons. It is the Dealer's

responsibility to mount these "ship loose" items in the correct location on the vehicle. Mounting of "ship loose" items will not be covered under warranty. These items include, but may not be limited to, the following:

- Antennas
- Fire extinguishers
- Trailer air hoses
- Trailer electrical cables
- Winter fronts
- Tire inflation hoses
- Spare wheels/tires
- Chrome lug nut covers
- Driver's pouch
- Jacks

Collapsible roof air fairings are collapsed on the roof of the vehicle at time of manufacture to accommodate the transport process. It is the Dealer's responsibility to mount these fairings correctly. Claims for mounting of these collapsed fairings will not be covered under warranty.

#### **TEST VEHICLES**

Any vehicles being used in testing or used to test specific components must be identified to the Warranty Department and accommodations must be made for claims that relate to the test item(s).

Any vehicles used in endurance testing, such as the Altoona Test, are void of all warranty, new or used.

#### **TIRES AND TIRE BALANCING**

The tires are not covered under this warranty but are warranted separately by the tire manufacturer. Tire balancing is not covered under warranty.

#### **1.5 Transfer of Warranty**

This warranty is transferable to a subsequent owner if it has not expired. Contact dealership to update ownership information.

#### **1.6 Change of Owner Address Information**

To ensure Company's ability to reach the current owner with Recall and Field Service campaign information, the owner's account must be updated whenever there is a change to the Owner's name or address. Contact dealership to update ownership information.

#### **1.7 Product Improvement**

Company reserves the right to make improvements or changes to the product at any time without incurring any obligation to make such changes or improvements to any other vehicle.

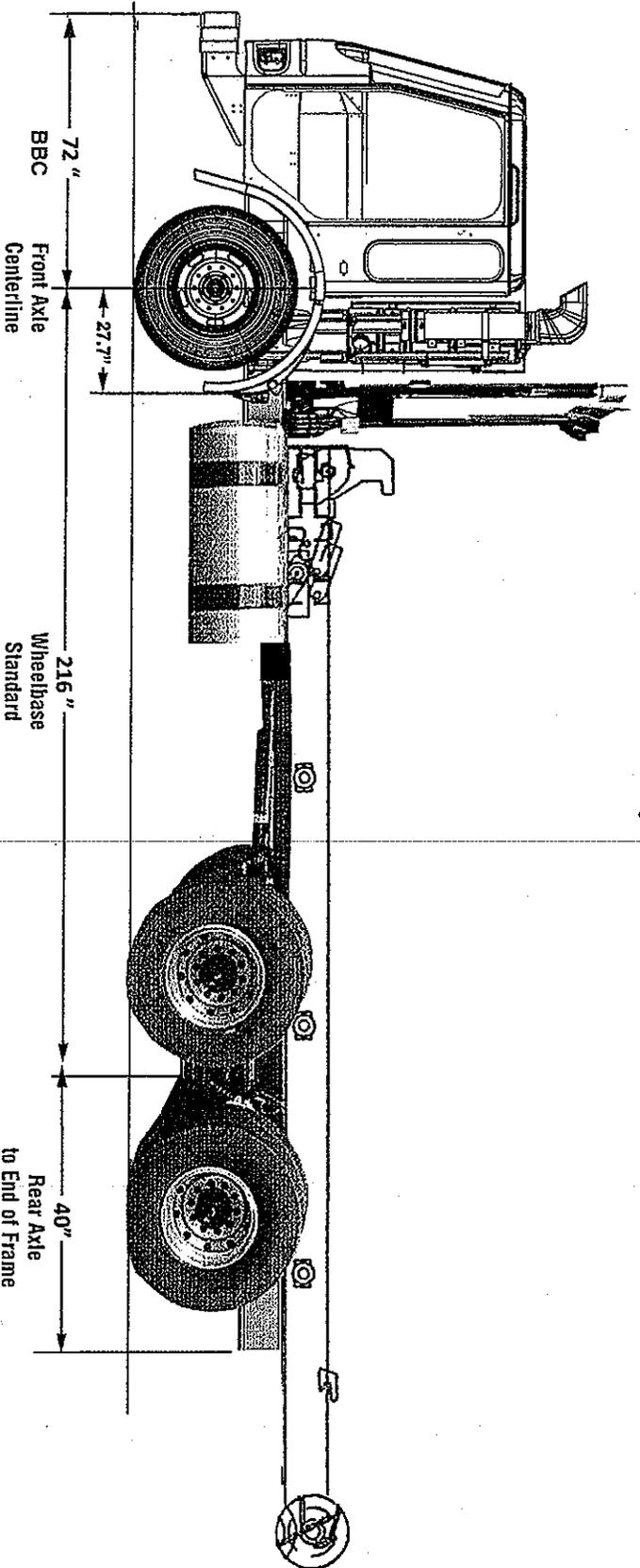
#### **1.8 Owner's Responsibilities**

It is the owner's responsibility to ensure the vehicle is maintained as outlined in the Driver's/Operator's and Maintenance Manuals. It is important to be familiar with the contents of the warranty information. When first receiving the vehicle, thoroughly review the owner's warranty information.

To initiate warranty, owner should provide dealer with completed and signed Warranty Start Form.

# Metro Dade Bid #9719-0/18

Condor Model 880 / Galbreath US-OR-174



	Front	Rear	Total
Chassis	<u>11,935 lbs.</u>	<u>6,960 lbs.</u>	<u>18,895 lbs.</u>
Body/Tarp	<u>505 lbs.</u>	<u>7,035 lbs.</u>	<u>7,540 lbs.</u>
Payload	<u>5560 lbs.</u>	<u>30,005 lbs.</u>	<u>35,565 lbs.</u>
Total Front	<u>18,000 lbs.</u>	<u>44,000 lbs.</u>	<u>62,000 lbs.</u>

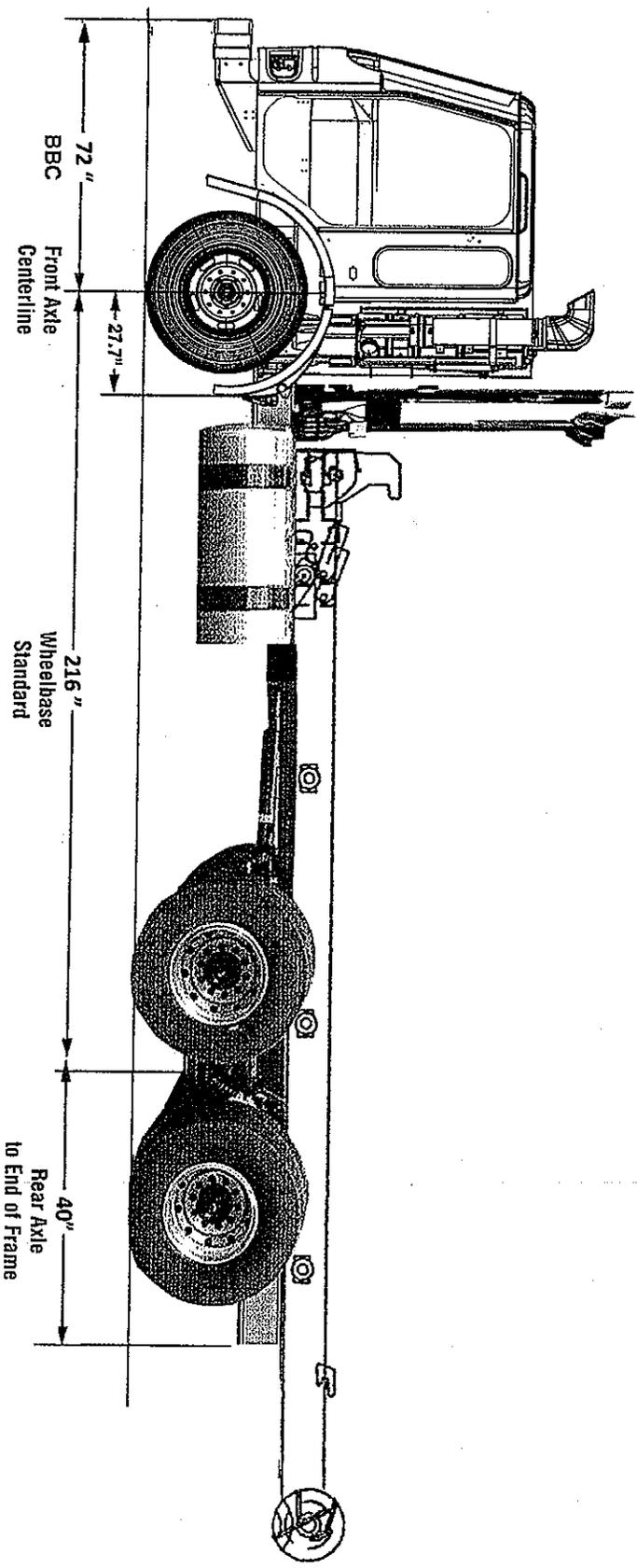
Note: Chassis weight has included (1) driver & (1) completely filled fuel Tank in its weight  
 This Total Capacity is based on the Metro Dade registering truck for the minimum axle weight.  
 Payload Capacity has container weight included.

## Weight Distribution & Dimension Chart

**LOADED**

# Metro Dade Bid #9719-0/18

Condor Model 880 / Galbreath U5-OR-174



## Front

Chassis 11,935 lbs.

Body/Tarp 505 lbs.

## Rear

6,960 lbs.

7,035 lbs.

## Total

18,895 lbs.

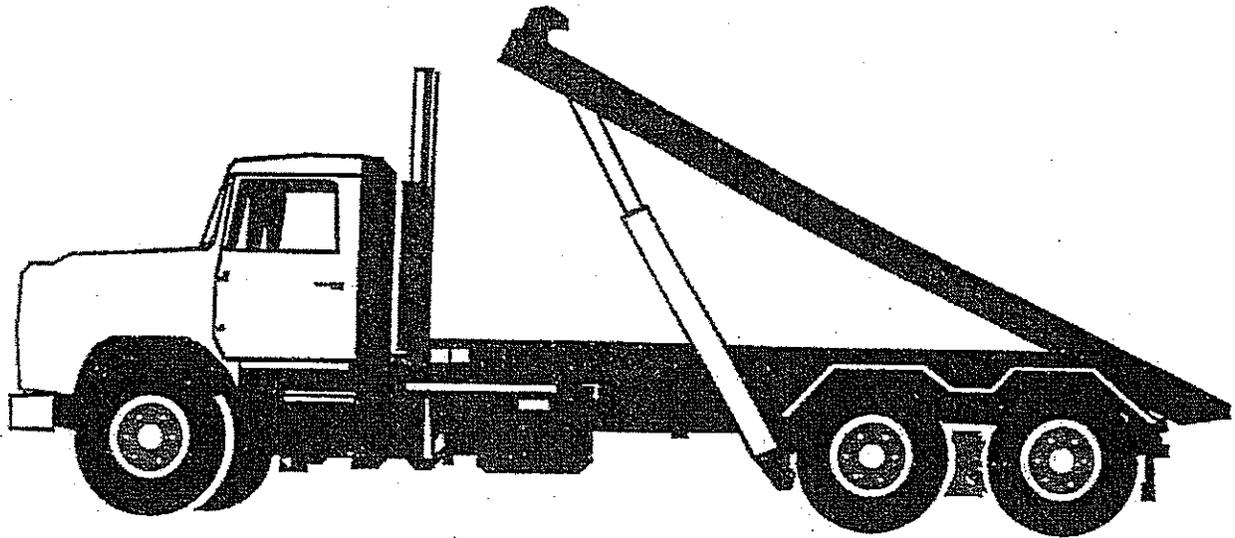
7,540 lbs.

Note: Chassis weight has included (1) driver & (1) completely filled fuel Tank in its weight

### Weight Distribution & Dimension Chart

**UNLOADED**

CABLE  
U5-OR-174



STANDARD  
BID SPECIFICATIONS  
for

**Calbreath**<sup>®</sup>  
A WASTEQUIP COMPANY

U5-OR-174  
Tandem Axle Roll-Off Hoist

## 60,000 lb. capacity Roll-Off Hoist

	YES/NO
<b>BOX LENGTH:</b> 22foot	<u>YES</u>
<b>CAPACITY:</b> 60,000 lbs.	<u>YES</u>
<b>LIFT/RECEIVING CYLINDERS:</b> Lift 6" X 72" D.A. Reeving 7" X 80" D.A.	<u>YES</u>
<b>FRAME MATERIAL:</b> 8" X 4" X 1/2" Rectangular Tubing ASTM A-500 Grade-C Tubing	<u>YES</u>
<b>CABLE SHEAVES:</b> 10" O.D. Bronzed-Bushed Sheave	<u>YES</u>
<b>CABLE:</b> 7/8" (6x37 EXIWRC)	<u>YES</u>
<b>ROLLERS:</b> 4" O.D. w/Bronze Bearing	<u>YES</u>
<b>GREASE FITTINGS:</b> At All Wear Points	<u>YES</u>
<b>DUMP ANGLE:</b> 45-50 degrees	<u>YES</u>
<b>FRONT STOPS:</b> 1- 1/2" Steel Plate	<u>YES</u>
<b>REAR HINGE:</b> 3" Solid Steel	<u>YES</u>
<b>FRONT CONTAINER LOCK:</b> Automatic Spring Loaded	<u>YES</u>
<b>REAR HOLD DOWN:</b> 1" Plate	<u>YES</u>
<b>REAR GROUND ROLLER:</b> 8" OD Hardened with 2 1/2" c-1045	<u>YES</u>
<b>BUMPER:</b> Folding	<u>YES</u>
<b>HOIST UP ALARM:</b> In Cab Buzzer	<u>YES</u>
<b>BACK UP ALARM:</b> 97 decibels	<u>YES</u>
<b>HOIST UP TIME:</b> 30 seconds	<u>YES</u>

## OPERATING SPECIFICATIONS

	COMPLY	
	YES	NO
1. Manufacturers Rated Capacity: 60,000#	X	
2. *Manufacturers Factory Tested Lifting and Pull-On Capacity: 60,000#	X	
3. Recommended container Lengths: 18-22 Ft.	X	
4. Working Hydraulic Pressure: 1850 P.S.I.	X	
5. Approximate Operating Times:		
Hoist Up = 30 seconds	X	
Hoist Down = 15 seconds	X	
Container On = 46 seconds	X	
Container Off = 37 seconds	X	
6. Raised Dump Angle: 48°	X	
7. Lever Arm: 49"	X	

**\*NOTE: Factory tested with a 22 ft. container on a hard level surface and a water level load in the container.**

## STRUCTURAL SPECIFICATIONS

		COMPLY	
		YES	NO
1.	<b>Main Frame: (2) 8" x 4" x 1/2" A500 Grade "C" Rectangular Tubing Main Rails Joined in Parallel By:</b> - (2) 8" x 4" x 3/8" Rectangular Tubing Crossmembers - (1) 3/8" x 6" Plate Winch Cylinder Support - (1) 1/2" x 11-1/2" x 35" A36 Plate - Front Plate	X X X X	     
2.	<b>Sub Frame: (2) 3" x 2" x 205" x 3/16" A500 Grade "C" Rectangular Tubing Rails Joined in Parallel By:</b> - (4) 3/8" x 6" A36 Plate Crossmembers - (1) Rear Pivot Plate Formed From 3/8" A36 Plate	X X X	   
3.	<b>Lower Lift Cylinder Mounting Bracket: 3/8" A36 Plate with 1" HR Plate Bracket Welded on to Support the 2-1/2" Diameter 1018 CFRD Lower Lift Cylinder Shaft.</b>	X	
4.	<b>Upper Lift Cylinder Mounting Bracket: 3/4" HR Anchor Plate Welded to the Main Frame and Bearing a 4" O.D. x 2-1/2" I.D. 1035 CFRD Tubing Collar and a 2-1/2" Diameter 1018 CFRD Shaft.</b>	X	
5.	<b>Front Container Stops: 1-1/2" HR Plate Steel</b>	X	
6.	<b>Front Container Safety Lock: 1" A36 Plate Steel Latch That is Pushed Up By a Tempered Spring When the Hoist is Completely Lowered.</b>	X	
7.	<b>Rear Hold Down: 3/4" HR Plate Steel</b>	X	
8.	<b>Winch Rail: Constructed of 4" Structural Channel. 3/8" &amp; 1/2" Steel Plate: - Helps Tie Main Frame Rails Together, Acts as Guide for Winch Cylinder Rod Ends and Protects Winch Cylinder Rods When Extended.</b>	X	
9.	<b>Rear Hinge Assembly:</b> a). Four 1-1/4" HR Rear Hinge Plates Welded to the Hoist Sub-Frame b). Two 4-1/4" Wide Rear Hinge Castings Welded to the Hoist Main Frame c). Two 2-1/2" 1018 CFRD Pins <b>NOTE: The hinge assembly is fabricated with grease zerks to maintain a free floating in grease condition.</b>	X X X X	     

**STRUCTURAL SPECIFICATIONS - CONTINUED**

		COMPLY	
		YES	NO
10.	<b>Rear Ground Roller Assembly:</b> a). 6-5/8" Diameter x 23" Long Greasable Roller b). 2" 1018 CFRD Roller Shaft c). Two 2" HR Plate Brackets for Roller Shaft	X X X	   
11.	<b>Side Roller Assembly:</b> Five Per Side (4" O.D. x 2" I.D.) Outside. a). Roller is a 4" O.D. x 2-1/2" I.D. 1026 CFRD Tubing with a 2-1/2" O.D. x 2" I.D. 660 Bronze Bushing b). The Roller Shaft is 2" 1018 CFRD Supported By a 1/2" x 3" x 5" HR Base Plate Welded to the Main Frame Rail. NOTE: The roller shaft is machined and equipped with a grease zerk to provide grease flow to two points on the shaft. c). The roller is secured on the shaft by a 10 Gauge Washer and a 3/8" x 3" Cotter Pin.	X  X X	    
12.	<b>Cable Sheave: Sheaves are a 10" Ductile Iron Casting (Tensile &amp; Compression 50,000 to 60,000 P.S.I./Yield 45,000 P.S.I. min) with a 2-7/8" O.D. x 2-1/2" I.D. 660 Bronze Bearing. Total of 5 Sheaves.</b> *Sheave groove should support the cable over 135 - 150 degrees of cable circumference.	X	
13.	<b>Cable Sheave Shafts: 2-1/2" Diameter 1018 CFRD, Machined &amp; Equipped with Grease Zerk to Provide Grease Flow to Sheaves.</b>	X	
14.	<b>Cable Sheave Guides: 4" Structural Channel</b>	X	
15.	<b>Winch Cylinder Rod Guards: 3/8" x 3" HR Flat Plate</b>	X	
16.	<b>Oil Reservoir: 10 Gauge and 12 Gauge HR Sheet Steel Body Mounted to the Truck with two 1/4" HR Plate Brackets and two 2" Sch 80 Seamless Black Pipe.</b>	X	

**STRUCTURAL SPECIFICATIONS - CONTINUED**

		<b>COMPLY</b>	
		<b>YES</b>	<b>NO</b>
17.	<b>ICC Bumper: Fabricated Design consisting of a 4" x 3" x 1/4" Rectangular Tubing welded to two 1" A36 Bumper Connecting Arms Hinged to a Fabricated Hinge Assembly consisting of two 1" A36 Hinge Plates per side with a Hinge Pin made from 1 1/2" CR 1018 material with Minimum of 64,000 PSI Tensile Strength and the bumper can be Folded Up to Bottom of Hoist Frame and Pinned in Place to allow for Towing Trailers (Bumper must also have <u>Optional</u> Linkage available to Automatically Fold Up the ICC Bumper.)</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
18.	<b>Bumper: 5" x 7 9/16" x 95 7/8" Fabricated Bumper that consists of 1/4" x 7 9/16" x 95 7/8" Formed Outer Steel Channel with 5" Legs and 12 Ga. x 7" x 95 5/8" Formed Inner Steel Channel with 3 1/2" Legs Engineered Specifically to Hold Clearance, Tail, Brake, Backup, Marker, License Plate and Turn Signal Lights.</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
19.	<b>Cable: 7/8" diameter x 71' Long, 6 x 37 EXTWRC Regular Right Lay, Core Color Coded and of Domestic Origin; - with a Manufacturers Rated Capacity of 39 Tons. Line Pull on Cable at 1850 P.S.I.: 35,594#.</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
20.	<b>Cable Pick Up End: Cast Steel Swivel Cable Eye - Tested to 78,000#, and Secured by Cold Flowing Swaged Fittings.</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
21.	<b>Cable Anchor: (4) 7/8" Forged Cable Clamps, Hot Galvanized and of Domestic Origin.</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**NOTE: All main frames, subframes, and manufactured components shall be jugged when fabricated to assure interchangeability of parts.**

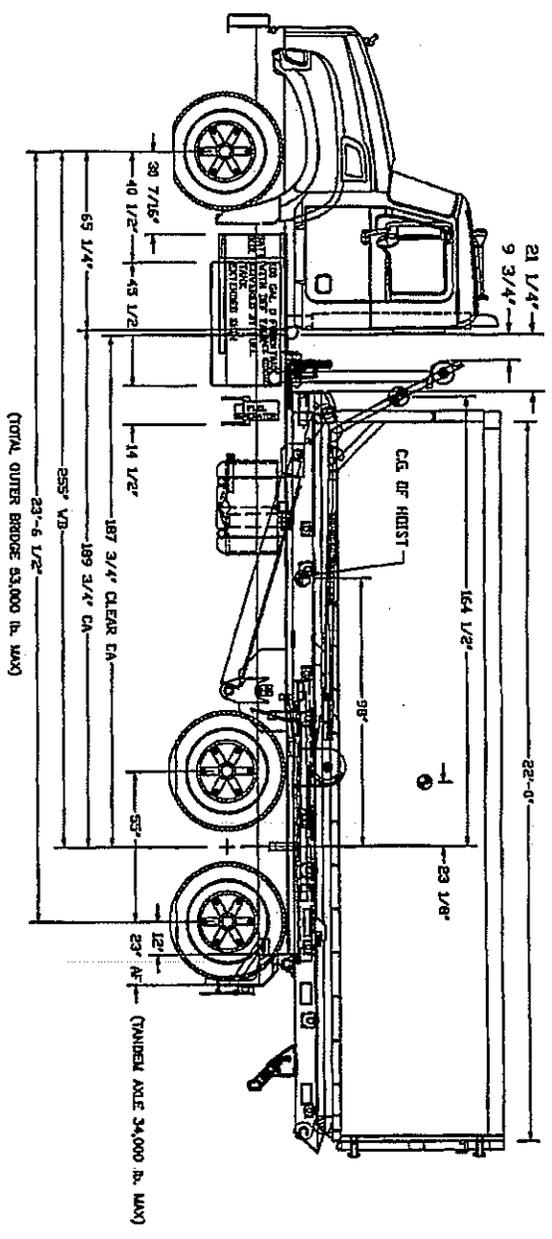
## HYDRAULIC SPECIFICATIONS

		COMPLY	
		YES	NO
1.	Pump: Gear Type, 35 G.P.M. @ 1500 RPM (Parker front)	X	
2.	Valve: 2 Spool, Sectional, 35 G.P.M. with Port Relief's	X	
3.	Oil Filter: 60 G.P.M., 100 Wire Mesh, 25 Micron, Replaceable	X	
4.	Oil Reservoir: 50 Gallon Capacity with Window Type Sight Gauge and Temperature Gauge.	X	
5.	Internal Filter: 200 Wire Mesh Suction Strainer and 10 Micron Fill Port - Replaceable Filter with Built in Bypass	X	
6.	System Total Oil Capacity: 72 Gallons	X	
7.	Shutoff Valves: 2" Ball Valve	X	
8.	Hydraulic Fittings: JIC, O-Ring Fittings of Domestic Origin.	X	
9.	Hydraulic Hoses: SAE 100-R2, 5000 P.S.I. Max.	X	
10.	Lift Cylinders: (2) 6" x 72" D.A. with 4-1/2" O.D. Ground, Polished, and Chrome Plated Rod Tube.	X	
11.	Winch Cylinders: (2) 6" x 80" D.A. with 3" O.D. Ground, Polished, and Chrome Plated Rod - Solid.	X	

NOTE: PARKER FRONT MOUNT  
PUMP TO BE SUPPLIED

X |

- REQUIRED TRUCK CONFIGURATION**
- 1) "WISCONSIN PACKAGE" SETUP
  - 2) PRIMA 460 SUSPENSION WILL NOT WORK
  - 3) AIR TANKS MOUNTED IN THE TRUCK FRAME
  - 4) WRAPPED FUEL TANK WITH REAR MOUNTED DEF TANK
  - 5) HACK GUB WITH WRAP AROUND EXHAUST



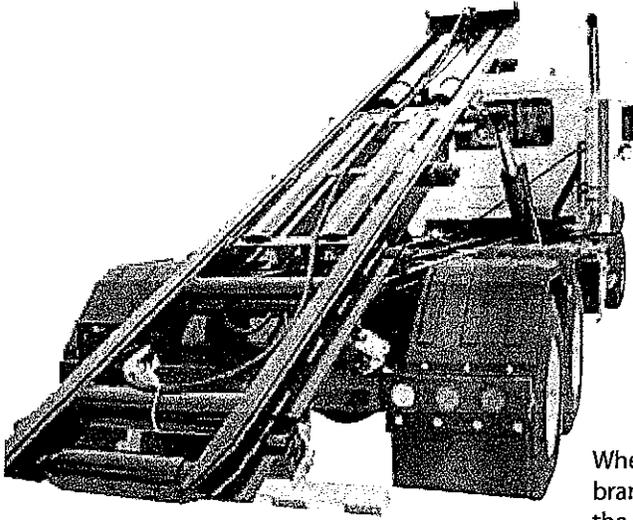
FRONT AXLE (LBS)		TRUCK TANDEM (LBS)		WEIGHT DISTRIBUTION		TRUCK OUTER BRIDGE	
TRUCK	10,580	10,110	FRONT	REAR	50,340		
HOIST	2,871	4,279					
TAPPER	871	479					
LOAD	1,938	19,414					
TOTAL	18,058	34,282	32%	68%			* LIMITING CAPACITY

TOTAL LOAD = CONTAINER + LOAD = 21,350 LBS

(TOTAL OUTER BRIDGE 53,000 LB. MAX)

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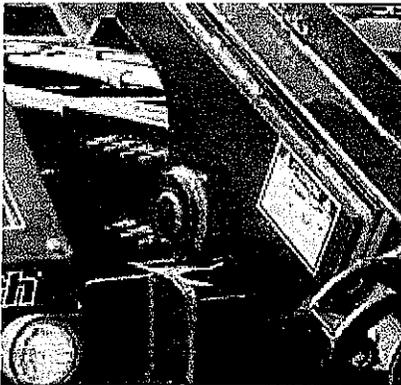
Caldwell LLC 2011		RES.	
<b>Exilbreath</b> LLC INDIANAPOLIS, INDIANA		DO NOT SCALE DRAWING SCALE 1/4" = 1" BY GEORGE DATE 5/27/11	
HOISTS HI GVWR RATING 22FT CNT US-ID-174 HACK GUB13 2010 25SVB 100G V		RES.	
CONTRACT NO.	REV.	DATE	BY
1510378	18		



# ROLL-OFF CABLE HOISTS

When it comes to heavy lifting, nothing compares to Wastequip's line of Galbreath brand and Accurate style of roll-off cable hoists. For over 40 years, Galbreath has set the standard by which all others are measured and is the most trusted cable hoist brand in the market.

- Outside Rail cable hoists are the most common and versatile in use today
- Inside/Outside Rail cable hoists have rollers on the inside of the frame that line up with rails on a container to help guide it during loading. These cable hoists offer the ability to load both styles of containers
- Some models have additional benefits, such as deadlift to help load containers found in tight spaces, and extended tail models allow for low loading angles where height clearance is an issue



Hoist frame huck bolted to chassis on all factory mounted hoists

## STANDARD FEATURES

### SAFETY

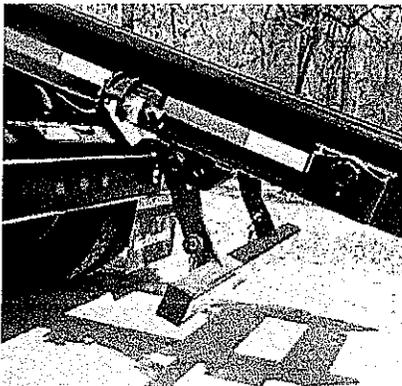
- An automatic spring-loaded container locking system, together with rear container hold downs, make Galbreath-brand hoists the safest, most reliable in the industry
- Each Galbreath-brand hoist is equipped with heavy-duty safety props to provide a fail-safe system during equipment maintenance
- Automatic fold fold-up ICC bumper is standard on most models

### DURABILITY

- Rugged rear hinge is an integral part of Galbreath-brand hoists and is designed to take the punishment and stress of the most demanding loads
- Hoist frames are huck-bolted to chassis on all factory-mounted models, providing unmatched strength and durability
- The best hydraulic filtering system in the industry minimizes contamination for maximum operation life and minimum maintenance

### EASY TO OPERATE

- A centered cab-mount "Power Tower" is the easiest and most ergonomic control tower for operating your hoist. Controls are perfectly positioned for maximum efficiency and control, while Galbreath's famous "Plug n' Play" wiring system provides easy, independent installation that eliminates crossed wires, loose connections, corrosion and splices



Automatic fold up ICC bumper

## OTHER AVAILABLE FEATURES

- Reverse cylinder mount
- Pintle hook applications
- Various fender selections
- Auxiliary hydraulic hook-ups
- Air-activated container hold-down system
- Pioneer Rack 'n Pinion tarping systems

# 60,000 lb. Capacity » Roll-Off Hoists

## Tandem Axle

### OUTSIDE RAIL



#### **U5-OR-194**

- Use for Container Sizes: 20'-24'
- 60,000 lb. Capacity
- 194" CT (cab to trunnion) Dimension
- Outside Rail
- Telescopic Cylinders

#### **UT-OR-194**

- Use for Container Sizes: 20'-24'
- 60,000 lb. Capacity
- 194" CT (cab to trunnion) Dimension
- Outside Rail
- Telescopic Cylinders

#### **U5-EX-194**

- Use for Container Sizes: 20'-24'
- 60,000 lb. Capacity
- 194" CT (cab to trunnion) Dimension
- Outside Rail
- Extended Tail
- Telescopic Cylinders

#### **UM-EX-194**

- Michigan 9'-Spread Lift Axle
- Use for Container Sizes: 20'-24'
- 60,000 lb. Capacity
- 194" CT (cab to trunnion) Dimension
- Outside Rail
- Extended Tail
- Telescopic Cylinders

#### **UT-EX-194**

- Use for Container Sizes: 20'-24'
- 60,000 lb. Capacity
- 194" CT (cab to trunnion) Dimension
- Outside Rail
- Extended Tail
- Telescopic Cylinders

#### **U5-OX-194**

- Use for Container Sizes: 20'-24'
- 60,000 lb. Capacity
- 194" CT (cab to trunnion) Dimension
- Outside Rail
- Extra-Long Extended Tail, 23° Loading/Unloading Angle
- Telescopic Cylinders

#### **UM-OX-194**

- Michigan 9'-spread lift axle
- Use for Container Sizes: 20'-24'
- 60,000 lb. Capacity
- 194" CT (cab to trunnion) Dimension
- Outside Rail
- Extra-Long Extended Tail, 23° Loading/Unloading Angle
- Telescopic Cylinders

#### **UT-OX-194**

- Use for Container Sizes: 20'-24'
- 60,000 lb. Capacity
- 194" CT (cab to trunnion) Dimension
- Outside Rail
- Extra-Long Extended Tail, 23° Loading/Unloading Angle
- Telescopic Cylinders

#### **U5-OR-174**

- Use for Container Sizes: 18'-22'
- 60,000 lb. Capacity
- 174" CT (cab to trunnion) Dimension
- Outside Rail
- Telescopic Cylinders



#### **UT-OR-174**

- Use for Container Sizes: 18'-22'
- 60,000 lb. Capacity
- 174" CT (cab to trunnion) Dimension
- Outside Rail
- Telescopic Cylinders



#### **SS-OR-174**

- Use for Container Sizes: 18'-22'
- 60,000 lb. Capacity
- 174" CT (cab to trunnion) Dimension
- Outside Rail
- 10" Main-Frame, No Sub-Frame

#### **SST-OR-174**

- Use for Container Sizes: 18'-22'
- 60,000 lb. Capacity
- 174" CT (cab to trunnion) Dimension
- Outside Rail
- 10" Main-Frame, No Sub-Frame
- Telescopic Cylinders

#### **U5-EX-174**

- Use for Container Sizes: 18'-22'
- 60,000 lb. Capacity
- 174" CT (cab to trunnion) Dimension
- Outside Rail
- Extended Tail



#### **UT-EX-174**

- Use for Container Sizes: 18'-22'
- 60,000 lb. Capacity
- 174" CT (cab to trunnion) Dimension
- Outside Rail
- Extended Tail
- Telescopic Cylinders

#### **SS-EX-174**

- Use for Container Sizes: 18'-22'
- 60,000 lb. Capacity
- 174" CT (cab to trunnion) Dimension
- Outside Rail
- Extended Tail
- 10" Main-Frame, No Sub-Frame

#### **U5-OX-174**

- Use for Container Sizes: 18'-22'
- 60,000 lb. Capacity
- 174" CT (cab to trunnion) Dimension
- Outside Rail
- Extra-Long Extended Tail, 23° Loading/Unloading Angle

**GALBREATH INCORPORATED**  
**TANDEM TRUCK ROLL-OFF HOIST**  
**LIMITED WARRANTY & LIMITED LIFETIME FRAME WARRANTY**

GALBREATH INCORPORATED ("GALBREATH") warrants its roll-off hoist main frame weldment against failure, as the result of corrosion, for the life of the hoist frame while it's mounted to the original chassis. (IS4063)

GALBREATH warrants the reservoir, pump, hydraulic control valve, and hydraulic cylinders against operational failure caused by defective material or workmanship, which occurs during normal use within two (2) years from date of shipment from our factory.

GALBREATH warrants all other products of it's manufacture against operational failure caused by defective material or workmanship, which occurs during normal use within one year from date of shipment from our factory.

GALBREATH will replace all parts of our manufacture free of charge that our inspection at our factory shows to us to be defective in accordance with the above paragraph. **Written permission must be obtained from authorized Galbreath personnel for any repairs performed other than in our factory.** All claims for reimbursement must be filed with proper documentation no later than forty-five (45) days after occurrence to be allowed.

All products purchased by GALBREATH from an outside vendor shall be covered by the warranty of that respective vendor only, and GALBREATH does not participate in or obligate itself to any such warranty.

No freight, travel cost, meals, lodging, or loss of hydraulic oil shall be covered by this warranty, all labor costs allowed shall be in accordance with GALBREATH'S established rate; in case of alleged defect, product shall be returned to GALBREATH with transportation charges prepaid. No freight collect shipment will be accepted.

GALBREATH makes no warranty on any of it's equipment used in any way except as it was designed, intended, and sold to perform.

**DISCLAIMER OF WARRANTIES.** THE LIMITED AND CONDITIONAL WARRANTY AND REMEDIES SET FORTH ABOVE ARE EXCLUSIVE AND IN LIEU OF ANY AND ALL REPRESENTATIONS, SPECIFICATIONS, WARRANTIES AND REMEDIES, EITHER EXPRESS OR IMPLIED, HEREIN OR ELSEWHERE, OR WHICH MIGHT ARISE UNDER LAW OR EQUITY, OR PURSUANT TO ANY COURSE OF DEALING OR CUSTOM OR USAGE OF TRADE, INCLUDING WITHOUT LIMITATION, ANY WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR ANY SPECIFIED OR INTENDED PURPOSE.

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All claims shall be processed through the GALBREATH Customer Service Department or your authorized GALBREATH dealer.

GALBREATH INCORPORATED  
Revised 2/24/00

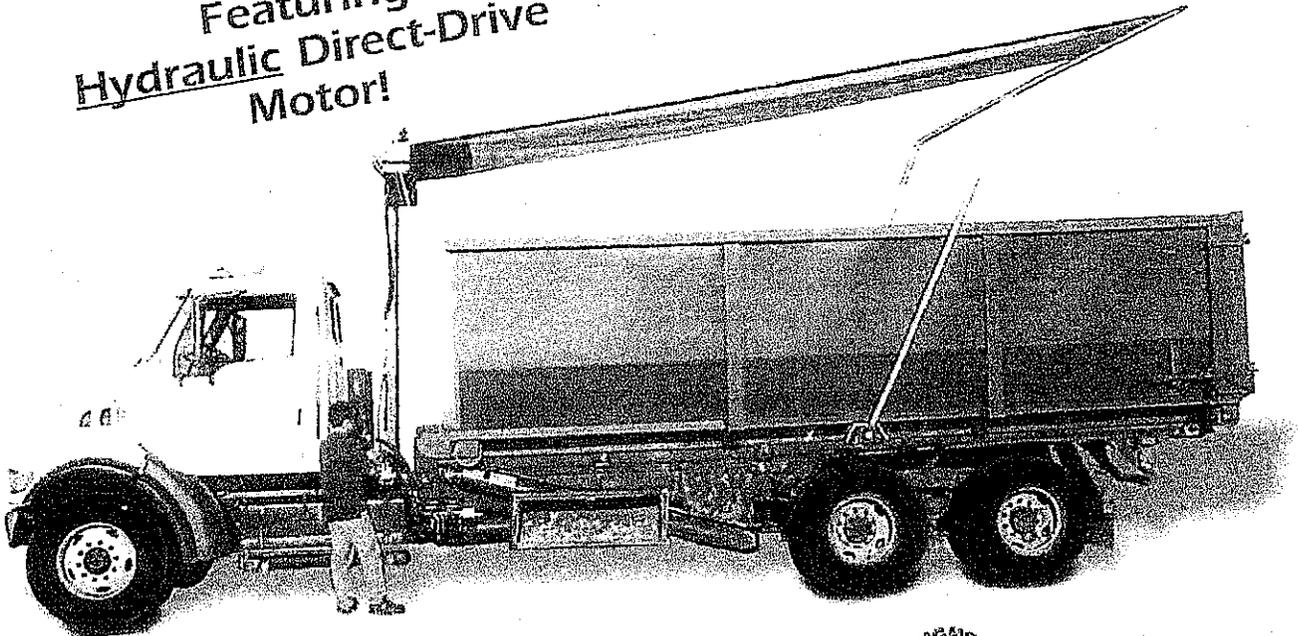
*Automatic rolloff tarping just got affordable!*

NEW  
&  
IMPROVED!

# QUICK FLIP II

Automatic Rolloff Tarp System

Featuring  
Hydraulic Direct-Drive  
Motor!



Longest lasting  
tarp in the industry -  
comes standard

**Affordable!**

All the performance at half the price of other tarpers!

**Hassle-Free Tarping!**

Easy to install, easy to maintain... less moving parts.

**Hydraulic Direct-Drive Motor!**

**Mighty Mesh Tarp!**

No other tarp comes close. #1 in durability. #1 in customer satisfaction!



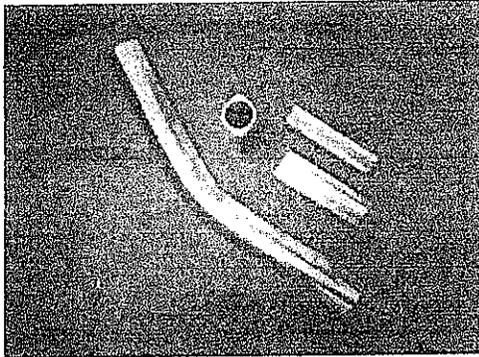
800-327-8287 ■ Fax: 772.287.0431  
www.donovan-ent.com

Automatic rolloff tarping just got affordable!

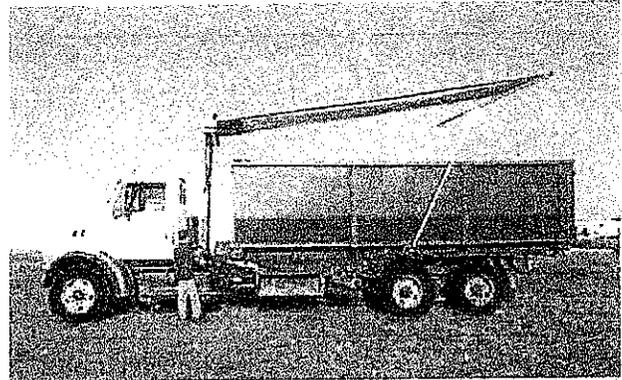
NEW  
&  
IMPROVED!

# QUICK FLIP II

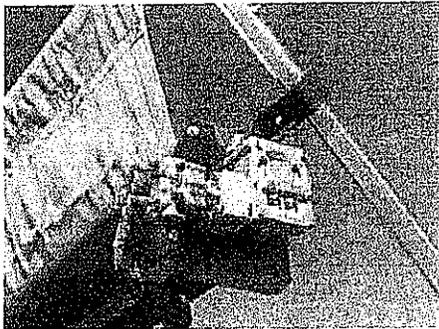
Automatic Rolloff Tarp System



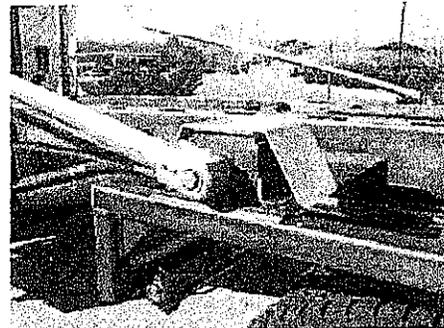
Pivot arms **Guaranteed for Life** not to break due to defects in material.



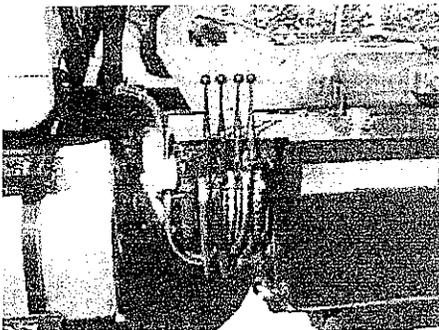
Gantry raises to 8' to cover 15-40 cu. yd. containers



Hydraulic direct drive motor deploys and retracts tarp.



Heavy duty spring housing offers easy access for maintenance



2-spool control valve & priority flow control valve included.



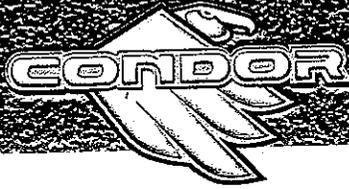
Each QuickFlip II system includes a 8' x 28' Mighty Mesh tarp at no up charge! (Mighty Mesh is the most durable tarp fabric available anywhere... bar none!)

Call Lynn or Jody today to find a Donovan dealer near you!



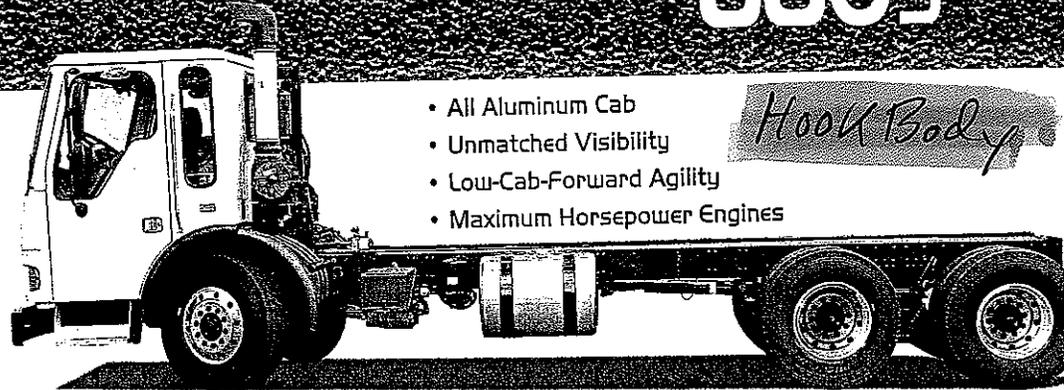
1-800-327-8287 • Fax: 772-287-0431  
[www.donovan-ent.com](http://www.donovan-ent.com)

Hook  
body



# 880S

The Condor 880S offers the roomiest interior of any low-cab-forward vocational truck on the market, with unmatched visibility and operator comfort. Designed for severe service applications like refuse, concrete pumping, and construction industries, the Condor 880S can deliver maximum torque without sacrificing required horsepower.



- All Aluminum Cab
- Unmatched Visibility
- Low-Cab-Forward Agility
- Maximum Horsepower Engines

*Hook Body*

shown with optional aluminum wheels

## STANDARD SPECIFICATIONS

### ENGINE

CUMMINS ISL	.....	345 HP
HORSEPOWER	.....	1150 LBS/FT @ 1400
TORQUE	.....	.....
GOVERNED SPEED, RPM	.....	.....
EMISSION DATA	.....	2010 EPA/Carb Emission Certification
ENGINE AFTERTREATMENT DEVICE, RH OUTBOARD FRAME MOUNTED, AUTOMATIC OVER THE ROAD REGENERATION AND DASH MOUNTED REGENERATION REQUEST SWITCH	.....	.....

### COOLING

RADIATOR	.....	1500 Square Inch Aluminum Radiator
COOLANT	.....	Anti-Freeze to -30° F, Ethylene Glycol Pre-Charged SCA Heavy Duty Coolant
HOSES	.....	Gates Blue Stripe Coolant Hoses
CLAMPS	.....	Constant Torque Hose Clamps
RADIATOR SURGE TANK	.....	Remote Mounted
RADIATOR FAN CONTROL	.....	Automatic

### TRANSMISSION

ALLISON 4500 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION	.....	.....
GEARING	.....	5 Speed RDS (Package 113)
SHIFT MECHANISM	.....	Push Button Electronic
TRANSMISSION OIL-CHECK & FILL	.....	Electronic Oil Level Check
TRANSMISSION OIL COOLER	.....	Water to Oil

### AXLES & SUSPENSION

FRONT AXLE	.....	MFS-18-133A FL1, Single Front Axle
FRONT AXLE CAPACITY	.....	18,000 lbs.
FRONT AXLE WHEEL CUT	.....	45 Degrees
FRONT AXLE SUSPENSION	.....	18,000 lbs. Flat Leaf
REAR AXLE	.....	RT-40-145 R-Series Tandem Rear Axle
REAR AXLE CAPACITY	.....	40,000 lbs.
REAR AXLE SUSPENSION	.....	40,000 lbs., Hendrickson HN402
SUSPENSION RIDE HEIGHT - REAR (SCO)	.....	Hendrickson HN 400/480 - 9.56"
AXLE SPACING, TANDEM DRIVE	.....	54"

### FRAME

FRAME RAIL	.....	Steel, 11/32" X 3-1/2" X 10-15/16" 120KSI
REAR FRAME OVERHANG	.....	75"
FRONT BUMPER	.....	10" Painted Steel - HD 1/4"
TOW/LIFTING DEVICE	.....	Front Tow Hooks - Frame Mounted

### PAINT

CAB EXTERIOR	.....	One Solid Color, B91776 White PPG Delta
CAB INTERIOR	.....	Painted Same as Cab Color
CHASSIS	.....	Black, High Solids Polyurethane Chassis Paint
BUMPER	.....	Bumper Painted Same as Chassis
WHEELS	.....	White Wheels & Rims
UNDERCOATING	.....	Corrosion Resistant Coating on Underside of Cab

### TIRES & WHEELS

FRONT TIRES	.....	Michelin XZU-S 315/80R22.5 20 PLY RADIAL
FRONT WHEELS	.....	Accuride 22.5X9.00, 10-Hub Pilot Steel Disc
REAR TIRES	.....	Michelin XZE 11R22.5 14 PLY RADIAL
REAR WHEELS	.....	Accuride 22.5X8.25, 10-Hub Pilot Steel Disc

### CAB

All Aluminum Cab  
 Black Polyurethane Quarter Fenders Behind Front Wheels  
 Cab Doors Open 90 Degrees  
 Hydraulic Cab Tilt Mechanism with Manual Pump, Located Behind Cab LH Side  
 Painted Cab-Mounted Grill w/Quick-Release Latches  
 Fixed Cab Mounted Steps RH/LH for Cab Entry, 18 Inches Ground Clearance  
 Tinted Door Glass and Windshield, 20"X36" Tinted Rear Window  
 RH & LH Electric Powered Windows  
 Dual Stainless Steel West Coast Mirrors  
 Interior And Exterior Grab Handles for Cab Access on Driver and Passenger Sides  
 Dual Electric Motor Windshield Wiper w/Delay  
 Adjustable Tilt and Telescoping Steering Column  
 Gray Standard Interior  
 Driver's Seat, National 2000 Series Mid-Back with Active Air Lumbar Support, Vinyl Covering  
 Passenger Seat, National 2000 Series Mid-Back Non-Suspension, Vinyl Covering  
 Driver/Passenger Interior Sun Visors  
 Tunnel/Firewall Liner for Engine Compartment Noise Shield  
 Cab Insulation with Additional Noise/ Thermal Treatment  
 Roof Mounted Storage Console  
 LH/RH Door Storage Pockets Integrated into Molded Door Panels  
 (2) Cup Holders LH/RH Integral with Engine Tunnel Cover

### LIGHTING & ELECTRICAL

Dual Rectangular Halogen Headlights  
 (5) Amber Marker Lights  
 Marker Light Switch Integral w/Headlight Switch  
 Turn Signals Standard Front with Surface Mounted Side Auxiliary Turn Signal  
 Self-Cancel Turn Signal Switch w/Dimmer, Headlamp Flash, Wash/Wipe/Intermittent  
 Door Activated Center Dome Lamp w/Switch

Auto Self-Reset Circuit Breakers and Fuses  
 Steel Battery Box, Frame Mounted Left-Hand Side  
 Frame Ground Return for Battery Cables; Ground Cable from L & R Frame to Engine  
 (2) 1231 GRP31 12V MF 2200 CCA Threaded Stud Batteries

### GAUGES & INSTRUMENTS

Integral Gauges Mounted in Instrument Panel Cluster  
 Electronic MPH Speedometer w/ Secondary KPH Scale, w/Odometer  
 Integrated Speedometer Message Center LCD Display, Data Linked  
 Trip Hour Meter Integral w/Speedometer Message Center (SMC)  
 Electronic Tachometer 3000 RPM  
 Voltmeter; Low Voltage Warning Light & Buzzer  
 Dual Needle Primary and Secondary Air Pressure Gauge  
 Electric Fuel Gauge  
 In-Tank Fuel Level Sender  
 Electric Engine Oil Pressure Gauge  
 Electrical Engine Coolant Temperature Gauge  
 Transmission Oil Temperature Gauge  
 Interaxle and/or Differential Lockout with Indicator Light  
 Low Air Pressure Light and Buzzer

### WARRANTY

1-Year Basic Warranty; 3-Year Cab Structure; 5-Year Frame Warranty  
 2-Year Factory Cummins Engine; 2-Year Factory Allison Transmission  
 Extended Warranty Packages Available



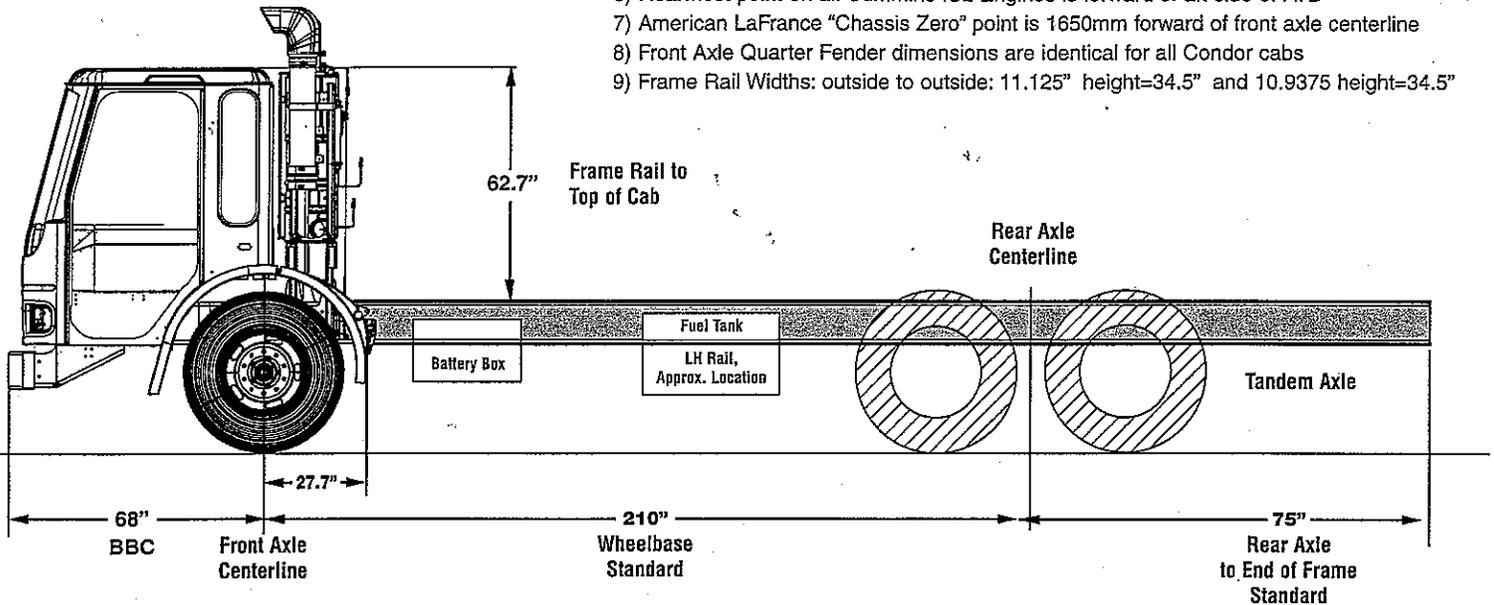
1090 Newton Way • Summerville, SC 29483  
 888-253-8725 • www.condortrucks.com



# DIMENSIONS

## DIMENSION NOTES

- 1) Front Axle Centerline to Quarter Fender Above Rail is 25.5" for ISC and ISL
- 2) Front Axle Centerline to Rear of ATD is 22.5" for ISC and ISL
- 3) Contact American LaFrance for ISX Dimensions
- 4) Rail Heights are 1) 11.125 or 10.9375. Upper rail height difference in height is .09"
- 5) For Tandem Rear Axles, rear axle centerline is middle point between the 2 rear axles
- 6) Rearmost point on all Cummins ISL Engines is forward of aft side of ATD
- 7) American LaFrance "Chassis Zero" point is 1650mm forward of front axle centerline
- 8) Front Axle Quarter Fender dimensions are identical for all Condor cabs
- 9) Frame Rail Widths: outside to outside: 11.125" height=34.5" and 10.9375 height=34.5"



THIS DRAWING IS FOR REFERENCE ONLY.  
ALL SPECIFICATIONS AND DIMENSIONS ARE SUBJECT TO CHANGE.

# RECOMMENDED OPTIONAL EQUIPMENT

## ENGINES

(ALL 2010 EPA/Carb Emission Certification)

MODEL	HORSEPOWER	TORQUE
CUMMINS ISC 8.3L	270	800 ft./lbs.
	300	860 ft./lbs.
	330	1,000 ft./lbs.
	350	1,000 ft./lbs.
CUMMINS ISL 9L	380	1,300 ft./lbs.
CUMMINS ISL-GAS	320	1,000 ft./lbs.
CUMMINS ISX 11.9L	350	1,350 ft./lbs.
	350	1,450 ft./lbs.
	385	1,450 ft./lbs.
CUMMINS ISX 11.9L (approved applications only)	425	1,650 ft./lbs.

## TRANSMISSIONS

ALLISON AUTOMATIC 3000, 3500, 4000 Series

## AXLES & SUSPENSIONS

FRONT AXLES	.....20K
REAR AXLES	.....Single Axles 23K-30K, Tandems 46K-52K
FRONT SUSPENSIONS	.....20K
REAR SUSPENSIONS	.....26K-52K Hendrickson
PUSHER AND TAG AXLES	.....Hendrickson (various)

## STEERING CONFIGURATIONS

(ALL FACTORY INSTALLED)

Left-Hand Sit-Down, Right Hand Sit-Down, Dual Sit-Down, Right Hand Stand-Up

## MISCELLANEOUS OPTIONS

- Engine Block Heaters
- Engine Oil Pre-Heater
- Horizontal Aftertreatment Device
  - ISL-Gas Only
- Auxiliary Fuel Tank, RH
- Air Conditioning
- Third-Man Jump Seat, RH or LH drive positions only; location behind passenger seat
- Battery Shutoff Switch
- Methane Detection System
- Fire Extinguisher
- Backup Alarm
- Air Horn
- Heated Mirrors
- Monitors, Wiring, Inputs for Customer Supplied Rear and Side Vision
- Cameras
- LED Stop/Tail Lights with Separate Backup Lights
- Fog Lights
- Utility Work Lights
- Strobe Lights
- Extra Switches in Dash (1, 2, 3 or 5)
- Molded Pod and Armrest for Joystick, LH or RH (joystick customer furnished)
- Vehicle Cruise Control
- Radio - AM/FM/WB/CD
- PTO, Transmission Mounted - Chelsea
- Shock Absorbers, Rear
- Polished Aluminum Wheels, Front/Rear
- C-Channel Inner Frame Reinforcement
- Fifth Wheel
- Bi-Fold Doors

The Leader in Factory Installed Alternative Gas Solutions



**CONDOR OF SO. FLA., MIAMI-DADE COUNTY, ROLL-OFF 01/28/2013****BASE MODEL**

TR02	X	001-552	AMERICAN LAFRANCE CONDOR LOW CAB FORWARD CHASSIS
	X	004-213	2013 MODEL YEAR SPECIFIED
	X	652-020	AMERICAN LAFRANCE CONDOR NAME PLATES

**VEHICLE CONFIGURATION**

X	002-004	SET BACK AXLE - TRUCK
X	019-002	STRAIGHT TRUCK PROVISION

**STEERING LOCATION**

X	003-001	LH PRIMARY STEERING LOCATION
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**ENGINE & ENGINE EQUIPMENT**

X	101-665	CUMMINS ISX 12L 350R, 350 HP @ 1800 RPM, 2100 GOV SPD / 1450FT-LBS @ 1200 RPM, Refuse Engine
X	107-032	WABCO/CUMMINS 18.7 CFM COMPRESSOR
X	266-1AP	1500 SQUARE INCH COPPER/BRASS RADIATOR (AVAILABLE ONLY/REQ'D FOR FEPTO)
X	168-004	STEEL RADIATOR, OIL PAN AND TRANSMISSION GUARDS
X	103-041	ANTIFREEZE TO -34F, ETHYLENE GLYCOL, NITRITE & SILICATE FREE, HEAVY DUTY EXTENDED LIFE COOLANT
X	273-018	HORTON DRIVEMASTER ON/OFF FAN DRIVE
X	99C-013	2010 EPA/CARB EMISSION CERTIFICATION, CUMMINS 2013 ENGINE MODEL YEAR w/DIAGNOSTICS
X	105-022	REMOTE ENGINE MOUNTED OIL CHECK & FILL
X	131-002	TEFLON COMPRESSOR DISCHARGE LINE
X	160-012	DIAGNOSTIC INTERFACE CONNECTOR, 9 PIN, SAE J1587/1708/1939, LOCATED BELOW DASH
X	162-002	IGNITION SWITCH CONTROLLED ENGINE STOP
X	171-007	GATES BLUE STRIPE COOLANT HOSES
X	172-001	CONSTANT TORQUE HOSE CLAMPS FOR COOLANT HOSES
X	270-010	RADIATOR DRAINCOCK
X	188-074	STATIONARY VERTICAL AIR INTAKE LOCATED LH SIDE
X	190-057	RACOR ECO III 1-STAGE AIR CLEANER
X	192-013	AIR CLEANER MOUNTED HORIZONTAL LH SIDE ABOVE FRAME RAIL (RH EXHAUST)
X	014-1ML	VERTICAL SNORKEL AND RACOR HIGH CAPACITY AIR CLNR MTD HORIZ LH. BOC
X	191-998	NO AIR INTAKE BRIGHTWORK
X	193-005	RAM AIR SCOOP
X	124-1CN	DR 12V 145 AMP 24-SI QUADRAMOUNT PAD ALTERNATOR
X	290-085	STEEL BATT BOX FRAME MTD LEFT-HAND SIDE, LOWERED 5"
X	289-011	NON-POLISHED BATTERY BOX COVER WITH 3/16" TETHER ON FORWARD SIDE OF COVER/ BOX
X	292-098	(2) 1231 GRP 31 12V MF 2200 CCA THREADED STUD BATTERIES
X	293-037	FLAMING RIVER BATTERY SHUTOFF SWITCH W/LOCK PROVISION MTD AFT SIDE OF BAT BOX OUTBOARD OF FRAME
X	295-021	POSITIVE & NEGATIVE POSTS FOR JUMPSTART MOUNTED TO SIDE OF BATTERY BOX
X	155-064	DELCO 12V 39MT+ HD STARTER W/INTEGRATED MAGNETIC SWITCH ( DIESEL ENGINE ONLY)
X	156-007	KEY OPERATED IGN SWITCH & INTEGRAL START POSITION 4 POSITION OFF/RUN/START/ACC
X	016-1BW	RH OUTBOARD FRAME MOUNTED VERTICAL AFTERTREATMENT DEVICE WITH TOPSTACK
X	234-026	VERTICAL AFTERTREATMENT DEVICE
X	235-079	RH OUTBOARD FRAME MOUNTED VERTICAL AFTERTREATMENT DEVICE
X	233-005	STAINLESS STEEL MUFFLER INLET ELBOW(S) WITH PLAIN STACK(S)
X	237-1AJ	VERTICAL TAILPIPE(S) WITH 90 DEGREE CURVED TOP STACK
X	239-001	STANDARD EXHAUST SYSTEM HEIGHT/LENGTH
X	242-043	ALUMINUM AFTERTREATMENT SYSTEM SHIELDING (DIESEL ENGINE ONLY)
X	110-003	CUMMINS SPIN ON FUEL FILTER (NO WATER SENSOR)
X	118-007	FLEETGUARD LF-9009 COMBINATION FULL FLOW/BYPASS OIL FILTER - ENGINE MOUNTED
X	120-021	FLEETGUARD COOLANT FILTER, W/(2) SHUTOFF VALVES INLET/OUTLET SIDES
X	114-998	NO BYPASS OIL FILTER
X	132-998	NO AIR INTAKE WARMER
X	23C-001	10 GALLON DEF TANK, NON-HEATED, LH RAIL MOUNTING
X	23G-001	3 GALLON DEF FLUID (DIESEL ONLY)
X	166-998	NO OIL PREHEATER
X	138-998	NO BLOCK HEATER
X	140-998	NO ENGINE HEATER RECEPTACLE
X	360-008	1410 ADAPTER FLANGE FOR FRONT PTO PROVISION
X	106-002	ELECTRONIC FOOT ACCELERATOR
X	149-998	NO SPEED CONTROL
X	148-004	PROGRAMMABLE RPM CONTROL WITH PRE-SET FAST IDLE
X	152-041	ELEC ENG INTEGRAL SHUTDOWN PROTECTION SYSTEM
X	150-008	CUMMINS ELECTRONIC ENGINE CONTROLS
X	128-998	NO ENGINE BRAKE
X	276-001	AUTOMATIC CONTROL W/O DASH SWITCH
X	28F-002	ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND DASH MOUNTED REGENERATION REQUEST SWITCH

**TRANSMISSION AND TRANSMISSION EQUIPMENT CONDOR HD**

X	342-1M3	ALLISON 4500 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION
X	595-086	SYNTHETIC LUBE TRANSMISSION & SYNTHETIC LUBE 75W-90 ALL AXLES

X	341-018	MAGNETIC PLUGS, ENGINE DRAIN TRANSMISSION DRAIN, AXLE(S) FILL & DRAIN
X	343-029	WTEC CALIBRATION - 6 SPEED RDS (PACKAGE 142)
X	34V-023	ALLISON 4TH GEN A42
X	353-001	TRANSMISSION VEHICLE INTERFACE CONNECTOR WIRED TO TRANSMISSION ECU
X	370-006	WATER TO OIL TRANSMISSION COOLER
X	345-027	PUSH BUTTON, ELECTRONIC SHIFT CONTROL, ENGINE TUNNEL MOUNTED
X	346-003	TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK
X	362-998	NO MAIN TRANSMISSION MOUNTED PTO
X	363-998	NO PTO MOUNTING LOCATION
X	364-998	NO JOYSTICK
X	365-998	NO JOYSTICK WIRING/PLUMBING
X	372-998	NO PTO CONTROLS
X	386-027	18N MERITOR (#2) DRIVELINE FULL RND
X	388-008	17N MERITOR (#3) DRIVELINE FULL RND
X	393-998	NO DRIVELINE GUARD

**FRONT AXLE**

X	400-1AC	MFS-20-133A FL1 20,000# SINGLE FRONT AXLE
X	408-001	VENTED FRONT HUB CAPS - OIL
X	410-001	FRONT SHOCK ABSORBERS
X	409-002	CHICAGO RAWHIDE SCOTSEAL CLASSIC FRONT OIL SEALS
X	416-022	STANDARD SPINDLE NUTS FOR ALL AXLES
X	418-001	IRON FRONT HUBS
X	402-064	MERITOR 16.5X7 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES
X	403-012	REFUSE SEVERE SERVICE, NON-ASBESTOS FRONT LINING
X	404-074	HALDEX LONG STROKE FRONT BRAKE CHAMBERS
X	405-003	HALDEX AUTOMATIC FRONT SLACK ADJUSTERS
X	419-021	GUNITE CAST IRON FRONT BRAKE DRUMS
X	427-998	NO FRONT BRAKE DUST SHIELDS
X	536-024	TRW TAS-85 POWER STEERING WITH RH RAM ASSIST (REQUIRED FOR 18K AND 20K AXLES)
X	539-006	VICKERS V20 POWER STEERING PUMP
X	533-998	NO OIL/AIR POWER STEERING COOLER
X	534-003	4 QUART POWER STEERING RESERVOIR
X	620-006	20,000# FLAT LEAF FRONT SUSPENSION
X	619-004	GRAPHITE BRONZE BUSHINGS WITH SEALS - FRONT SUSPENSION
X	502-433	ACCURIDE 29039 22.5X9.00 10-HUB PILOT 5.25 INSET 5-HAND STEEL DISC FRONT WHEELS
X	524-998	NON POLISHED ALUMINUM FRONT WHEELS
X	962-976	BLACK POWDER COAT F WHEELS
X	093-350	GOODYEAR G289 WHA 315/80R22.5 20 PLY RADIAL FRONT TIRES (20,000 LBS)

**REAR AXLE**

X	420-103	RT-46-160 R-SERIES TANDEM REAR AXLE @ 46,000#
X	421-563	5.83 REAR AXLE RATIO
X	452-998	NO TRACTION EQUALIZER
X	440-001	CHICAGO RAWHIDE SCOTSEAL CLASSIC REAR OIL SEALS
X	450-002	GUNITE IRON REAR AXLE HUBS
X	438-998	NO HUBODOMETER
X	42T-001	STANDARD REAR AXLE BREATHER(S)
X	423-019	MERITOR 16.5 X 8.62 Q+ CAST SPIDER CAM REAR BRAKES WITH DOUBLE ANCHORS AND FABRICATED SHOES
X	426-075	HALDEX LONGSTROKE 2-DRIVE AXLES SPRING PARKING CHAMBERS
X	428-003	HALDEX AUTOMATIC REAR SLACK ADJUSTERS
X	433-035	REFUSE SEVERE SERVICE NON-ASBESTOS REAR LINING
X	451-021	GUNITE CAST IRON REAR BRAKE DRUMS
X	425-998	NO REAR BRAKE DUST SHIELDS
X	434-003	STANDARD BRAKE CHAMBER LOCATION
X	622-1E7	HENDRICKSON HAULMAAX REAR SUSPENSION @ 46,000#
X	621-1AP	HENDRICKSON HAULMAAX - 10.5" RIDE HEIGHT, STD HAULMAAX 40/46 DEFAULT RIDE HEIGHT
X	910-998	NO REAR CHASSIS SUSPENSION AIR PIPING
X	876-998	NO AIR PP/ELECT AXLE SHIFT,CAB
X	624-009	54" AXLE SPACING
X	628-010	HENDRICKSON HN AND HAULMAAX SERIES STEEL BEAMS WITH BAR PIN
X	623-006	FORE/AFT AND TRANSVERSE CONTROL RODS
X	439-002	REAR SHOCK ABSORBERS - TWO AXLES (TANDEM)
X	505-445	ACCURIDE 29300 22.5X9.00 10-HUB PILOT 5-HAND STEEL DISC REAR WHEELS
X	525-998	NO POLISHED REAR WHEELS
X	986-976	BLACK POWDER COAT R WHEELS
X	094-350	GOODYEAR G289 WHA 315/80R22.5 20 PLY RADIAL REAR TIRES (36,360 lbs/axle)

**AUXILIARY AXLE**

X	035-998	NO PUSHER/TAG PACKAGE
X	449-998	NO PUSHER OR TAG HUBS
X	442-998	NO PUSHER/TAG AXLE OIL SEALS

X	444-998	NO PUSHER OR TAG HUB CAPS
X	456-998	NO PUSHER/TAG BRAKES
X	467-998	NO BRAKE LINING-PUSHER/TAG(SCO)
X	448-998	NO REAR BRAKE DRUMS/ROTOR FOR PUSHER/TAG
X	445-998	NO PUSHER OR TAG BRAKE CHAMBERS
X	429-998	NO PUSHER/TAG BRAKE DUST SHIELDS
X	626-998	NO PUSHER OR TAG SUSPENSION
X	627-998	NO PUSHER/TAG AXLE SPACING
X	874-998	NO PUSHER/TAG AXLE LIFT
X	896-998	NO PLUMBING FOR LIFT AXLE
X	509-998	NO PUSHER/TAG DISC WHEELS
X	526-998	NO PUSHER/TAG POLISHED WHEELS
X	495-998	NO PUSHER/TAG WHEEL MOUNTING NUTS
X	095-998	NO PUSHER/TAG TIRES

**ABS AND AIRING SYSTEM CONDOR HD**

X	490-100	WABCO 4S/4M ABS W/O TRACTION CONTROL ENHANCEMENT
X	882-041	ONE VALVE PARKING BRAKE SYSTEM (PP1) OFFSET TOWARDS DRIVERS POSITION
X	883-998	NO TRAILER HAND CONTROL BRAKE VALVE
X	878-001	INTERAXLE AND/OR DIFFERENTIAL LOCKOUT WITH INDICATOR LIGHT
X	890-998	NO 5TH WHEEL PLUMBING
X	901-001	COTTON BRAID HOSE FRONT SERVICE BRAKE
X	902-001	COTTON BRAID HOSE REAR SERVICE BRAKE
X	904-001	COTTON BRAID PARKING BRAKE HOSE
X	914-998	NO PLUMBING FOR AIR TO EOF
X	919-998	NO OPTIONAL CHASSIS AIR SYSTEM PIPING, VALVES, OR AIR UNLOADER SYSTEM
X	871-001	REINFORCED NYLON,FABRIC BRAID/WIRE BRAID CHASSIS AIR LINES
X	482-998	NO TRACTOR PROTECTION VALVE
X	476-998	NO AIR HOSE HANGER
X	481-998	NO TRAILER AIR HOSE
X	484-998	NO TRAILER CABLE & GLAD HAND STORAGE
X	460-008	STEEL AIR BRAKE RESERVOIRS MOUNTED INSIDE RAIL
X	46A-998	NO AUXILIARY AIR TANK
X	477-019	BW DV-2 AUTO DRAIN VALVE W/ HEATER ON WET TANK ONLY;DRAIN VALVE CABLES ON ALL OTHER TANKS
X	480-066	BW AD-9IP-EP BRAKE LINE AIR DRYER WITH HEATER (REQ'D FOR REFUSE VOCATION)
X	479-003	AIR DRYER MTD ON LH RAIL/ INBOARD
X	485-998	NO EXTERNAL CHARGING GLADHAND
X	488-998	NO AUXILIARY AIR OUTLET
X	498-998	NO TIRE VALVE STEM/CAP/EXTENSIONS

**WHEELBASE, FRAME & EQUIPMENT**

X	545-547	5475 mm (241") WHEELBASE
X	552-054	2275MM (40") REAR FRAME OVERHANG
X	546-101	1 1/32" X 3-1/2" X 10-15/16" STEEL FRAME (8.73MM X 277.8MM/344" X 10.94") 120KSI
X	547-001	1/4" (6MM) C-CHANNEL INNER FRAME REINFORCEMENT
X	551-002	HUCK-SPIN ROUND COLLAR CHASSIS FASTENERS
X	549-083	4" BOLT-ON FRONT FRAME SPACER
X	558-001	FRONT TOW HOOKS - FRAME MOUNTED
X	587-003	REAR TOW HOOKS
X	553-001	SQUARE END OF FRAME
X	607-998	CHASSIS CONFIGURATION - NONE
X	560-001	UNDERSLUNG CROSSMEMBER (at transmission, engineering driven, n/a w/single rear axle)
X	562-001	STANDARD MIDSHIP CROSSMEMBERS
X	565-002	HEAVY DUTY SUSPENSION CROSSMEMBER
X	572-001	STANDARD REARMOST CROSSMEMBER
X	556-052	10" PAINTED STEEL BUMPER - HD 1/4"
X	574-001	BUMPER MTG FOR SINGLE LICENSE PLATE
X	575-998	NO REAR LICENSE PLATE BRACKET
X	578-998	NO FIFTH WHEEL
X	577-998	NO 5TH WHEEL LOCATION
X	579-998	NO FIFTHWHEEL RELEASE/INST.
X	582-998	NO 5TH WHEEL LEG HEIGHT
X	667-020	BLACK POLYURETHANE QUARTER FENDER BEHIND FRONT WHEEL
X	586-998	NO FRONT MUD FLAPS
X	585-998	NO MUD FLAP(S) BRACKETS
X	590-998	NO REAR MUDFLAP
X	592-998	NO DECK PLATE
X	665-998	NO CHASSIS ACCESS STEPS
X	583-998	NO REAR QUARTER FENDERS
X	754-001	2" FENDER EXTENSIONS
X	55C-998	NO SNOWPLOW DEVICE

**FUEL SYSTEMS CONDOR HD**

X	204-156	100 GALLON / 378 LITER ALUMINUM FUEL TANK - LH
X	206-998	NO RH FUEL TANK
X	212-007	FUEL TANK(S) FORWARD
X	218-006	25" DIAMETER FUEL TANK(S)
X	215-005	PLAIN ALUMINUM/PAINTED STEEL FUEL TANK, PAINTED BANDS
X	219-004	FUEL DRAW - INBOARD
X	230-998	NO BETWEEN RAIL FUEL TANK
X	202-016	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE
X	216-020	INBOARD FUEL SYSTEM
X	213-998	NO FUEL LINE INSULATION
X	220-998	NO FUEL HEATER
X	221-001	FUEL COOLER (diesel engine only)

**FUEL TANK ACCESSORIES**

X	205-001	FUEL TANK CAP(S)
X	207-998	NO FUEL TANK SCREENS
X	232-505	5 GALLONS ADDITIONAL FUEL
X	210-008	MAGNETIC DRAIN PLUG FOR FUEL TANK (DIESEL TANK ONLY)
X	122-1D4	DAVCO 382 FUEL/WATER SEPARATOR WITH WATER SENSOR LIGHT

**CAB EXTERIOR**

X	629-068	68" BBC LOW CAB FORWARD ALUMINUM CAB
X	653-015	RH CAB DOOR WITH 90 DEGREE DOOR STRAP
X	651-015	LH CAB DOOR WITH 90 DEGREE DOOR STRAP
X	657-001	ALL CAB LOCKS AND IGNITION KEYED THE SAME
X	655-001	CAB DOOR LATCHES WITH MANUAL DOOR LOCKS
X	650-009	RUBBER CAB MOUNTS
X	677-005	FIXED CAB MOUNTED STEPS RH/LH FOR CAB ENTRY
X	686-001	TWO GRABHANDLES MOUNTED ON FRONT OF CAB BELOW WINDSHIELD
X	663-013	TINTED WINDSHIELD
X	767-998	CAB SIDEWALL WINDOWS - NONE
X	661-006	CAB DOOR WINDOWS - TINTED, LH/RH
X	768-032	CAB BACKWALL WINDOW - (1) TINTED 20"X36" CENTER, FIXED
X	769-998	CAB LOWER DOOR WINDOW - NONE
X	670-012	HYDRAULIC CAB TILTMECHANISM WITH MANUAL PUMP, LOCATED BEHIND CAB RH SIDE
X	671-001	HYDRAULIC CAB LATCH
X	744-007	DUAL CAB MIRRORS - VELVAC 7" X 16", STAINLESS STEEL, MANUAL ADJUSTMENT, NON-HEATED, WITH LOWER 8" ROUND CONVEX
X	74A-998	NO MIRROR AUXILLARY UPPER - DOWN VIEW, CAB SIDE
X	065-000	PAINT - CAB ONE SOLID COLOR
X	980-3ZB	CAB COLOR A: B91776 WHITE PPG
X	964-993	BUMPER PAINTED SAME AS CHASSIS
X	986-020	BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT
X	963-002	RUST PREVENTION COATING ON UNDERSIDE OF CAB
X	764-998	NO CAB EXTERIOR SUN VISOR
X	649-998	NO FRONT CAB GUARD
X	648-998	NO RADIATOR GRILLE SCREEN
X	646-028	PAINTED CAB MTD GRILL W/QUIK-RELEASE LATCHES
X	674-998	NO CAB GRAB HANDLE CHASSIS ACCESS
X	660-002	CAB WINDSHIELD WIPER - DUAL ELECTRIC MOTORS WITH DELAY FEATURE
X	659-003	1 GALLON WINDSHIELD WASHER RESERVOIR

**CAB INTERIOR**

X	678-006	INTERIOR AND EXTERIOR GRAB HANDLES FOR CAB ACCESS ON DRIVER AND PASSENGER SIDES
X	690-002	TUNNEL/FIREWALL LINER
X	691-001	FORWARD ROOF MOUNTED CONSOLE
X	739-020	CAB INSULATION W/ADDITIONAL NOISE/ THERMAL TREATMENT
X	765-002	DRIVER / PASSENGER INTERIOR SUN VISORS
X	700-002	HEATER, DEFROSTER AND AIR CONDITIONER
X	703-014	MAIN HVAC CONTROLS WITH MANUAL AIR CONDITIONER ON/OFF SWITCH
X	701-001	STANDARD HVAC DUCTING
X	170-015	STANDARD HEATER PLUMBING
X	698-001	RADIATOR MTD A/C CONDENSER
X	130-003	SANDEN COMPACT AIR CONDITIONER COMPRESSOR
X	702-012	BINARY CONTROL, R-134A, W/RECEIVER DRIER
X	707-019	GRAY STANDARD INTERIOR
X	679-001	OVERHEAD INSTRUMENT PANEL
X	680-004	LOW CAB FORWARD DASH
X	772-003	SLIP RESISTANT FLOORING
X	708-021	RH INTERIOR DOOR TRIM, ABS UPPER AND LOWER PAINTED ALUMINUM
X	706-021	LH INTERIOR DOOR TRIM ABS UPPER AND LOWER PAINTED ALUMINUM
X	711-998	NO DOOR MOUNTED ARM REST

X	654-011	RH AND LH ELECTRIC POWERED WINDOWS
X	532-002	ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN
X	540-020	2-SPK 450MM(18") BLACK STEERING WHEEL(S)
X	185-004	STANDARD FOOT PEDAL SYSTEM
X	756-082	BOSTROM 910 MID BACK TALLADEGA AIR SUSPENDED DRIVER'S SEAT
X	758-032	FLAT VINYL, DRIVER'S SEAT
X	760-232	NATIONAL 2000 SERIES MID-BACK NON-SUSPENSION PASSENGER SEAT (N/A ON DUAL DRIVE TRUCKS)
X	761-032	FLAT VINYL, PASSENGER SEAT
X	762-998	NO REAR CREW SEATS
X	755-998	NO SEAT COVERS PASSENGER,REAR
X	763-011	3 POINT ADJUSTABLE D-RING RETRACTOR DRIVER AND PASSENGER SEATBELTS
X	757-998	NO SEAT SKIRT(S)
X	759-002	ARMREST INBOARD DRIVER AND PASSENGER SEATS
X	67A-002	ADDITIONAL CAB INTERIOR TRIM
X	693-019	LH/RH DOOR STORAGE POCKETS INTEGRATED INTO MOLDED DOOR PANELS
X	785-998	NO DASH MOUNTED ASH TRAYS & LIGHTER
X	720-003	5 LB. FIRE EXTINGUISHER
X	722-998	NO REFLECTOR/FLARE KIT
X	714-998	NO FIRST AID KIT

**INSTRUMENTS AND CONTROLS**

X	732-006	INTEGRAL GAUGES MTD IN INSTUMENT PANEL CLUSTER
X	734-004	GRAY CENTER INSTRUMENT PANEL
X	870-001	BLACK GAUGE BEZELS
X	017-072	CONDOR STANDARD GAUGE PACKAGE
X	810-027	ELECTRONIC MPH SPEEDOMETER W/ SECONDARY KPH SCALE, W/O ODOMETER
X	812-001	ELECTRONIC TACHOMETER 3000 RPM
X	844-021	2" ELECTRIC FUEL GAUGE WITH INTEGRATED DEF GAUGE
X	847-002	IN TANK FUEL LEVEL SENDER(S)
X	840-001	DUAL NEEDLE PRIMARY AND SECONDARY AIR PRESSURE GAUGE (PSI ONLY)
X	486-001	LOW AIR PRESSURE LIGHT AND BUZZER
X	852-002	ELECTRIC ENGINE OIL PRESSURE GAUGE (PSI ONLY)
X	854-001	ENGINE OIL TEMPERATURE GAUGE
X	856-001	ELECTRICAL ENGINE COOLANT TEMP GAUGE
X	198-006	ENGINE COMPARTMENT MOUNTED AIR RESTRICTION INDICATOR WITH GRADUATIONS, WITH WARNING LIGHT IN DASH
X	864-001	TRANSMISSION OIL TEMPERATURE GAUGE
X	866-998	NO AXLE TEMPERATURE GAUGE
X	838-998	NO AIR APPLICATION GAUGE
X	830-005	(2) HOBBS ENGINE HOURMETERS: (1) ENGINE HOURMETER, (1) P.T.O. OPERATION HOURMETER
X	836-010	VOLTMETER; LOW VOLTAGE WARNING LIGHT & BUZZER
X	846-998	NO AMMETER
X	726-001	SINGLE ELECTRIC HORN
X	727-072	HADLEY AIR HORN, SINGLE BASE; 2 TRUMPETS DUAL TONE 12.5/10.25" MTD BEHIND GRILLE
X	736-998	NO OBSTACLE DETECTION SYSTEM
X	73A-998	NO REAR REFLECTIVE DEVICE
X	746-1AF	AM/FM/WB RADIO
X	747-002	ROOF/OVERHEAD CONSOLE MOUNTED RADIO
X	748-998	NO CB RADIO/PROVISION
X	75A-998	NO RADIO-MTG,UHF/VHF
X	749-998	NO CB RADIO MOUNTING PROVISION
X	750-002	(2) RADIO SPEAKERS (CAB ONLY)
X	752-998	NO CB ANTENNA, BRACKET OR LEAD
X	753-018	AM/FM FLEXIBLE COMPOSITE ANTENNA MTD ON LH FRONT A-PILLAR

**ELECTRICAL SYSTEMS AND CONTROLS CONDOR HD**

X	280-008	TRUCK ELECTRICAL SCHEMATIC/MANUAL 12V
X	285-005	AUTO SELF-RESET CIRCUIT BREAKERS AND FUSES
X	298-019	NON-POLARITY SENSITIVE ELECTRONIC FLASHER
X	320-004	STANDARD WIRING
X	324-068	DOOR ACTIVATED CENTER DOME LAMP W/SWITCH
X	339-998	NO INTERLOCK/ELECTRICAL LOAD MANAGER
X	860-002	STANDARD WIRING-CAB,DASH,CENTER
X	329-998	NO EXTRA SWITCH IN DASH
X	284-045	(2) DASH MNTD POWER RECEPT (REQUIRES 785-998 NO DASH 12 V. OUTLETS)
X	300-014	STANDARD FRONT WITH SURFACE MOUNTED SIDE AUX TURN SIGNAL
X	312-003	DUAL RECTANGULAR HALOGEN HEADLIGHTS
X	316-998	NO SPOTLIGHTS
X	318-998	NO UTILITY/ADVERTISING LIGHT

X	315-998	NO ROADLIGHTS
X	302-001	(5) AMBER LED MARKER LIGHTS
X	294-025	WIRING HARNESS ONLY TO END OF FRAME FOR STOP, TAIL, TURN SIGNALS
X	311-998	NO DAYTIME RUNNING LIGHTS
X	304-012	HEADLIGHT SW W/INTEGRAL PANEL DIMMER, MARKER LAMPS WIRED TO BATT SW
X	299-020	SELF-CANCEL TURN SIGNAL SWITCH W/DIMMER, HEADLAMP FLASH, WASH/WIPE/INTERMITTENT
X	721-998	NO BACKUP ALARM
X	71T-998	NO SMOKE/CO2 DETECTOR
X	310-998	NO TRAILER ELECTRICAL CABLE
X	296-998	NO SPECIAL PRIMARY RECEPTACLE WIRING
X	297-998	NO TRAILER CABLE RECEPTACLE
X	331-998	NO SUPPLEMENTAL ISO 3731 7-WAY TRAILER ABS RECEPTACLE
X	303-998	NO ADDITIONAL TRAILER CABLE RECPT

**VOCATION AND COMMODITY**

X	A84-1SA	SANITATION BUSINESS SEGMENT
X	A85-001	REFUSE SERVICE
X	AA1-002	TRUCK CONFIGURATION
X	AA2-998	NO TRAILER SPECIFIED
X	AA3-010	ROLL OFF/ROLL ON BODY
X	AA4-005	BUILDING MATERIAL COMMODITY
X	AA5-006	10% (SOME) OF THE TIME, IN-TRANSIT, IS SPENT ON NON-PAVED ROADS
X	AB1-012	MAXIMUM 12% EXPECTED GRADE
X	AB5-002	ROUGH, MAINTAINED CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE
X	AH6-998	NO TRAILERS
X	A63-99D	EXPECTED GROSS VEHICLE WEIGHT CAPACITY = 66,000 LBS
X	A66-99D	EXPECTED FRONT AXLE(S) LOAD = 20,000 LBS
X	A68-99D	EXPECTED REAR DRIVE AXLE(S) LOAD = 46,000 LBS
X	AA6-002	DOMICILED, USA 49 STATES (WITHOUT CALIFORNIA)

**NOTES/SPECIAL REQUESTS**

X	549-NOTE	EXTENDED AREA AT THE TOP OF THE BUMPER NEEDS TO BE COVERED WITH 1/4" PLATE OR EXPANDED METAL
X	720-NOTE	FIRE EXTINGUISHER MOUNTED ON THE FLOOR NEXT TO DRIVER'S SEAT, ACCESSABLE BY OPENING THE DRIVER'S SIDE DOOR
X	168-NOTE	BOLT ON SKID PLATE FABRICATED FROM 3/16" STEEL PLATE, W/MAX GROUND CLEARANCE AND ACCESS TO FILTERS AND DRAINS
X	239-NOTE	EXHAUST HEIGHT OF 12' 10" WITH A TOLERANCE OF +0"-2" FROM GROUND LEVEL
X	304-NOTE	OUTER CAB MARKER LIGHTS TO BE ILLUMINATED WHEN BATTERY SHUT OFF SWITCH IS IN THE "ON" POSITION
X		PURADYNE PFT-40 40 QUART OIL FILTRATION SYSTEM INSTALLED BY DEALER
X		ENGINE & TRANSMISSION EXTENDED WARRANTIES SUPPLIED BY DEALER
X		DELIVERY TO BODY COMPANY IN 120 TO 150 DAYS
X		DEALERSHIP: CONDOR OF SOUTH FLORIDA, 2911 S. ANDREWS AVE., FT. LAUDERDALE, FL. 33316
X		SALESMAN: BILL BROCKMEIER (305)731-3010 EMAIL: bbrock@truckmax.com
X		SHIP TO:
X		END USER: MIAMI-DADE COUNTY



## Condor On/Off-Highway Warranty

Coverage	Time <sup>1</sup>	Distance <sup>1</sup>
<b>BASIC VEHICLE</b> Coverage includes all factory-installed components of the vehicle/chassis that are not excluded elsewhere in the warranty, or by special agreement or described as having a different time, or distance or hours, or listed separately on this new vehicle warranty coverage chart.	1 yr	Unlimited
<b>ALLIANCE BATTERY</b> Only Company's private brand-label batteries sold under the Alliance Parts brand name will be warranted. Claims for all other brands must be submitted directly to the supplier. Warranty coverage includes the battery assembly only.	1 yr	100,000m/ 161 000k
<b>BRIGHTWORK</b> Coverage includes all factory-installed components with chrome, polished aluminum, or polished stainless steel surfaces. Excludes any damage to bumper, backside of bumpers, and concealed or inner surfaces.	6 mo	Unlimited
<b>CAB CORROSION/PERFORATION</b> Coverage is limited to rust-through or perforation of the cab and integral sleeper structure and sleeper box (if applicable) due to corrosion from within. Excludes all conditions of rust or corrosion that have not resulted in rust-through or perforation as well as surface rust or corrosion caused by non-adhesion. Excludes any damage to the paint such as chips or scratches.	5 yr	Unlimited
<b>CAB STRUCTURE</b> Coverage includes cab and integral sleeper structural components, structural components of factory installed sleeper boxes (if applicable), sheet metal panels, doors, and hoods. Excludes all bolt-on components including door and hood hinges, latches, guides, and other mounting hardware.	3 yr	Unlimited
<b>CORROSION</b> Coverage provides warranty against corrosion to any metal or metal alloy part of the vehicle. Exclusions to warranty include, but are not limited to, corrosion or rust on tone rings, rotors or drums (not including hydraulic disc rotors) and corrosion caused by general rust (for example, rust on the unfinished backside of a bumper); severe wash solutions, cleaning solvents, detergents, compounds, high-pressure washing; corrosive road salts/ chemicals or environmental damage (including ocean spray); airborne fallout (includes chemicals, tree sap, etc.), or other atmospheric conditions or other acts of nature; improper use, misuse or abuse, negligence including improper or insufficient maintenance; salinity in the environment or corrosive salts and/or chemicals used on the road surface; acid rain or other industrial fallout; surface rust caused by chips or scratches in the paint or chrome surfaces; improper prevention measures during storage or use.	6 mo	Unlimited
<b>CROSSMEMBERS</b> Coverage includes crossmembers, gussets, and huck-mounting bolts that attach gussets to crossmembers and gussets/crossmembers to frame rails. Excludes any bolt-on item attached with either conventional or huck bolts.	5 yr	300,000m/ 483 000k
<b>DRIVE AXLE</b> Coverage includes axle housing, carrier assembly, differential assembly, power divider, axle shafts, and gaskets and seals. Excludes suspension and torque rod brackets, wheel-end equipment, wiring, yokes, and attaching hardware.	3 yr	Unlimited
<b>FRAME RAILS</b> Coverage is limited to breaking or cracking of factory-installed frame rails, frame rail liners, frame rail extensions, and any item(s) factory-welded to them. Excludes all bolt-on items regardless if attached with conventional or huck bolts.	5 yr	300,000m/ 483 000k
<b>PAINT</b> Warranty covers factory-painted Body/Cab/Cowl (except what is covered under chassis paint) against orange peel, peeling/delaminating, cracking/checking, or loss of gloss due to cracking/checking.	1 yr	100,000/ 161 000k
<b>PAINT, CHASSIS</b> Coverage includes all factory-painted surfaces on frame rails, crossmembers/gussets, front and rear bumpers, suspension components, power train components, drivelines, fuel tanks, air tanks, wheel end equipment, tool boxes, battery boxes, access steps, and attaching brackets and hardware. Warranted against peeling or non-adhesion. Excludes U-joints and any damages to the paint or painted surface such as chips and scratches.	6 mo	Unlimited
<b>TRANSMISSION (file direct)</b> Coverage includes housing and all internally-lubricated parts, electric/air shift/control units, valves, gaskets, and seals. Excludes broken synchronizer pins, PTOs, transfer case(s), airlines, gauge senders, yoke(s), clutch, and clutch control components including clutch brake. Excludes Allison automatic transmissions and Twin Disc Automatic Transmissions.	2 yr	Unlimited

<sup>1</sup>Time or distance, whichever occurs first.

CATEGORY-3 APPLICATIONS – SEVERE SERVICE refer to data books for specific application category requirements		CATEGORY-4 APPLICATIONS – SEVERE SERVICE refer to data books for specific application category requirements	
Road Surface— most severe in-transit between sites	UP TO 25% OFF-HIGHWAY (rough concrete or asphalt roads)	Road Surface— most severe in-transit between sites	Up to 40% off-highway
GCW	140,000 lb/ 63 505 kg or less	GCW	140,000 lb/ 63 505 kg or less
with the below axles	using the below manufacturers GVW rating	with the below axles	using the below manufacturers GVW rating
2-axle unit	Up to and including 46,000 lb/ 20 866	2-axle unit	Up to and including 58,000 lb/ 26 310 kg
3-axle unit	Up to and including 66,000 lb/ 29 938	3-axle unit	Up to and including 76,000 lb/ 34 475 kg
4-axle unit	Up to and including 78,000 lb/ 35 361	4-axle unit	Up to and including 86,000 lb/ 39 010 kg
5-axle unit	Up to and including 90,000 lb/ 40 824	5-axle unit	Up to and including 98,000 lb/ 44 453 kg

## 1.0 New Vehicle Limited Warranty

Under this New Vehicle Limited Warranty ("Warranty"), Company warrants that each new vehicle will be free from defects in material and workmanship that occur under normal use within the applicable warranty period, subject to certain limitations and exclusions as specified in this document.

This warranty covers all components and parts unless specifically covered by other warranties or otherwise excluded by this document.

### 1.1 Limitations

This warranty does not apply to vehicles that are sold or domiciled outside of the United States (50 states and Washington, D.C.) and Canada.

This warranty does not apply to engines, Allison transmissions, tires, or other components or parts that are not manufactured by Company and that are warranted directly by their respective manufacturers. Progressive damage caused by these manufacturers' components to any other parts including, but not limited to, parts installed by Company is excluded from Company warranty coverage. With respect to the foregoing, Company makes no warranty whether express, implied, statutory or otherwise including, but not limited to, any warranty of merchantability or fitness for a particular purpose.

**THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES OF ANY KIND WHETHER WRITTEN, ORAL, OR IMPLIED INCLUDING, BUT NOT LIMITED TO ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS WARRANTY SPECIFICALLY EXCLUDES ANY OTHER WARRANTIES OR CONDITIONS PROVIDED FOR BY LAW, WHETHER STATUTORY OR OTHERWISE.**

**COMPANY'S SOLE OBLIGATION UNDER THIS WARRANTY SHALL BE TO REPAIR OR REPLACE, IN COMPANY'S SOLE DISCRETION, ANY DEFECTIVE COMPONENT OR PART. SUCH REPAIR OR REPLACEMENT SHALL BE WITHOUT COST TO PURCHASER WHEN PERFORMED WITHIN THE APPLICABLE WARRANTY PERIOD (TIME, DISTANCE, OR HOUR LIMIT, WHICHEVER OCCURS FIRST).**

Purchaser must notify Company within the applicable warranty period, of any failure of the vehicle to comply with this warranty and Purchaser must, at Purchaser's expense, promptly return the vehicle to an authorized Dealer for inspection and repair or replacement of any defect in material or workmanship occurring within the applicable warranty period.

The vehicle must be maintained and serviced according to the prescribed schedules outlined in the Driver's/Operator's and Maintenance Manuals. Receipted bills and other evidence that required maintenance and service have been performed are required by Company as a condition of this warranty.

After the Company's obligations under this warranty expire, all liabilities of Company to Purchaser under this warranty shall terminate. Repairs made under this warranty do not constitute an extension of the original warranty period for the vehicle or for any specific component or part.

To the extent that any provision of this warranty contravenes the law of any jurisdiction, such provision shall be inapplicable in such jurisdiction, and the remainder of the warranty shall not be affected.

## 1.2 Purchaser's Exclusive Remedy

**THIS WARRANTY SHALL BE THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY AGAINST COMPANY, WHETHER IN CONTRACT, UNDER STATUTE (INCLUDING STATUTORY PROVISIONS AS TO CONDITIONS AS TO QUALITY OR FITNESS FOR ANY PARTICULAR PURPOSE OF GOODS SUPPLIED PURSUANT TO THE CONTRACT OF SALE), WARRANTY, TORT, STRICT LIABILITY, OR ANY OTHER LEGAL THEORY.**

### 1.3 Limitation of Liability

**COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE COST TO REPAIR OR REPLACE, IN COMPANY'S SOLE DISCRETION, THE DEFECTIVE COMPONENT OR PART THAT IN NO EVENT SHALL EXCEED THE FAIR MARKET VALUE OF THE VEHICLE AT THE TIME THE DEFECT IS DISCOVERED.**

**IN NO EVENT SHALL COMPANY BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES INCLUDING, BUT NOT LIMITED TO, INJURIES TO PERSONS OR DAMAGE TO PROPERTY, LOSS OF PROFITS OR ANTICIPATED PROFITS, OR LOSS OF VEHICLE USE.**

### 1.4 Exclusions

The following components, parts, or conditions, are specifically excluded from coverage under this warranty.

#### AIR COMPRESSORS, ENGINE BRAKES, AND OTHER PROPRIETARY ENGINE COMPONENTS

The engine manufacturer installs most air compressors and engine brakes. Any failure of a proprietary engine component or Jacob® Brake component must be filed directly with the engine manufacturer. Failures on non-proprietary components can be filed through Freightliner LLC Dealers.

#### AIR SPRINGS

Tolerance buildup can occur during the assembly process of the rear suspension and rear cab air springs and can cause the springs to have the appearance of being crooked, misaligned, or mis-installed. This tolerance buildup is not detrimental to the operation of the vehicle and will not have an effect on either the quality of the ride or the durability of the components or vehicle. Straightening of these springs is not covered under this warranty.

#### ALLISON TRANSMISSIONS

Allison transmissions and components are not covered under this warranty, but are warranted separately by Allison. Information regarding Allison's warranty is provided for informational purposes only and is subject to change. For warranty or service information, contact Allison's authorized sales and service facility.

#### ALIGNMENT OF AXLES/WHEELS/STEERING WHEEL

Each manufacturing plant uses an integrated alignment system to align axles and wheels and to center the steering wheel to Company specifications. Realignment or readjustment of these items is not covered under warranty.

Any special alignment settings at the request of the Owner must be handled between the Dealer and Owner after delivery from factory. These special adjustments are not covered under warranty.

#### AXLE BREATHER VENTS

During the vehicle manufacturing process, an oil run or drip stain may appear at the breather vent. Removing the vent, applying pipe sealant to the threaded vent fitting, and re-installing the vent is unnecessary. Removing the axle breather

vent and re-sealing the threaded fitting is not covered under this warranty.

#### **CAB INTERIOR COMPONENTS**

The repair or replacement of cab interior components that are rendered unserviceable due to normal wear or abuse are not covered under this warranty. These components include, but are not limited to:

- Upholstery
- Floor coverings (including floor mats)
- Curtains
- Window shades
- Steering wheel
- Steering wheel wrap

#### **CHROME SURFACES, ALUMINUM AND STAINLESS STEEL COMPONENTS**

The following items ARE covered under this warranty:

- Chrome peeling off in sheets
- Chrome cut at mounting bolts due to over-torque at the factory
- Bubbles in the chrome that are not caused by rock chips and/or general rust conditions
- Isolated rust along seams or welds

The following items are NOT covered under this warranty:

- General rust, for example, rust on the unfinished backside of a bumper
- Dimpling at the mounting bolts
- Staining, bluing, and/or yellowing that can be cleaned with a quality cleaning-product
- Rust, pits, and/or nicks caused by road wash or road debris breaking the chrome surface
- Streaks/stains/corrosion caused by severe wash solutions or corrosive road salts/chemicals

Claims pertaining to failures of chrome surfaces, aluminum, and stainless steel components will not be processed unless a clear digital picture is provided that adequately shows the defect.

#### **CLUTCH ADJUSTMENT**

Clutch adjustments are normally required due to clutch wear and are considered normal maintenance. However, if the clutch adjustment is found to be outside of Company specifications during, or prior to, in-service of the vehicle, a warranty claim will be accepted on a one-time basis.

Claims for clutch adjustments will not be accepted unless the adjustment is found to be outside of Company specifications using the special clutch adjustment measuring tools provided by Company (e.g., adjusting the clutch to satisfy feel will not be accepted as warranty).

#### **COMPETITION**

Warranty will become void on any vehicle that is used in competition, including but not limited to:

- Racing
- Tractor pulls
- Other motor sports

#### **CONSUMABLE PARTS**

Parts that are subject to consumption during their normal service life and are routinely replaced during normal maintenance services are only covered under this warranty during the initial operating period. These items are:

- Antennas
- Ashtrays
- Belts

- Brake linings
- Cigarette lighter element
- Clutch brake
- Clutch linings
- Data logger batteries
- Desiccant cartridges
- Fire extinguishers
- Fluorescent ballast and tubes
- Fuses
- Gladhand
- Hosefennas
- Light bulbs
- Mattresses
- Mud flaps
- Mud flap mounting brackets
- Radiator cap
- Receiver-drier filter
- Sealed light assemblies
- Trailer air hoses
- Trailer electrical cables
- Windshield washer nozzles
- Wiper arms and blades

Consumable parts NOT covered under this warranty include, but are not limited to, the following:

- Antifreeze
- Filters (fuel, air, oil, water)
- Fluids (unless low due to a warrantable failure)
- Lubricants

#### **CORROSION**

Rust or corrosion to specific components and/or caused by certain conditions are excluded from all Company warranty coverage and will not be paid under Basic Vehicle, Cab Structure, or Cab Corrosion.

The following exclusions to warranty include, but are not limited to:

- Corrosion caused by general rust (for example, rust on the unfinished backside of a bumper)
- Surface rust caused by chips or scratches in the paint or chrome surfaces
- Corrosion caused by high-pressure washing, severe wash solutions, cleaning solvents, detergents, compounds
- Corrosion caused by salinity in the environment or corrosive salts and/or chemicals used on the road surface
- Corrosion caused by acid rain or other industrial fallout
- Corrosion due to improper prevention measures during storage or use.
- Corrosion or rust on tone rings, rotors or drums (not including hydraulic disc rotors).
- Corrosion due to environmental damage (including ocean spray); airborne fallout (includes chemicals, tree sap, etc.), or other atmospheric conditions or other acts of nature
- Corrosion due to improper use, misuse or abuse, negligence, including improper or insufficient maintenance

#### **DAMAGE**

The following are not covered under this warranty:

- Damage caused by use of the vehicle in any application that is not approved or is inconsistent with build specifications

- Damage resulting from improper use or misuse or abuse, negligence, improper operation, improper or insufficient maintenance (including, but not limited, to failure to maintain vehicle as outlined in the driver's/operator's and maintenance manuals), overloading, unauthorized modifications, accidents, or operation at excessive speeds
- Environmental damage, including airborne fallout (including chemicals, tree sap, etc.) or other atmospheric conditions, hailstones, or other acts of nature
- Damage caused by road salts/chemicals or cleaning solvents, detergents, or compounds
- Storage deterioration including damage caused by improper or insufficient storage or maintenance
- Damage caused by road hazards or road conditions
- Damage caused during transport
- Damages (including peeling or flaking) caused by high-pressure washing or steam-cleaning
- Damages occurring after in-service (e.g., from rock chips)
- Damages caused by customer-installed sealer in air conditioning systems
- Damages caused by engine horsepower/torque upgrades
- Damage due to vibration associated with misapplication or mis-operation of drivetrain components
- Damage due to terrorist activities
- Damage due to acts of war

#### **ENGINE**

The engine, including all of its components as supplied by the manufacturer, is not covered under this warranty, but is warranted separately by the manufacturer of the engine. For engine warranty or service, contact the engine manufacturer's authorized sales and service facility.

#### **EXHAUST SYSTEM CLAMPS**

During the early life of the vehicle or when the engine is cold, many exhaust clamps exhibit a soot trace. This condition is self-correcting and does not require adjustment, tightening, or replacement of the clamp. Claims for adjusting or tightening will not be paid under warranty.

#### **FIFTH WHEELS**

Adjustment of the locking mechanism, slide locking plungers, and the repair or replacement of lock guards are considered routine maintenance and are not covered under this warranty.

#### **FIRE PUMPS**

Fire pump warranty applies only to pumps that have been specified on the original truck sales order (TSO).

#### **GLASS, MIRRORS, LENS**

Glass, mirror or lens breakage or chips or scratches of glass, mirrors, or lenses are not covered by this warranty.

#### **MISAPPLICATION OF VEHICLE**

The warranty on any vehicle used inconsistent with its specified vocation/application will be downgraded to the warranty that is consistent with the vehicle use. Any and all claims associated with the misapplication of the vehicle will be subject to chargeback.

#### **MISCELLANEOUS EXPENSES**

Premium charges and work not directly related to the repair or replacement of a warranted part are not covered under this warranty. Examples include, but are not limited to:

- Federal, state, provincial, and local taxes
- Travel expenses
- Loss of revenue
- Customer labor including overtime labor
- Downtime
- Driver's expenses

- Cost of rental equipment
- Loss of cargo, including perishable cargo
- General housekeeping supplies (i.e. rags, solvents, sweeping compounds, coveralls, etc.)
- Communication charges
- Towing/road call assistance (unless coverage is specifically stated in the applicable warranty table)
- Repair or replacement of optional items not sold or installed by Company
- Removal or replacement of dealer, body builder, or customer-installed equipment
- Environmental fees
- Environmental cleanup
- Cost of emergency services

#### **MODIFICATIONS TO ORIGINAL EQUIPMENT**

Company does not warrant vehicle component or chassis modifications or equipment installations arranged by Dealers or Customers. In addition, the extra time necessary to remove body builder installed items and/or equipment to work on a warranted repair is not covered under this warranty unless Company sells the complete chassis/body/equipment as a package.

If Dealers or Customers perform any vehicle modifications or equipment installations, to the extent these modifications or equipment installations adversely affect other vehicle components or vehicle performance, Company shall not accept any product liability or claims under the terms of the vehicle warranty. These claims become the sole responsibility of the person performing the modifications or equipment installations.

#### **PAINT**

The following exclusions to paint warranty include, but are not limited to:

- Complete chassis repainting to repair paint damages
- Damages occurring after in-service (e.g., from rock chips)
- Peeling/flaking caused by high-pressure washing or steam cleaning
- Rusting of painted bumpers
- Removal and/or replacement of decals, striping, and/or lettering not applied by Company

Specific areas of the vehicle are **deliberately not painted** or are not painted to any standard and paint repairs are not warrantable, including, but not limited to:

- Underside of the hood, including the inside of the wheel wells
- Underside of the roof-mounted air fairings
- Underside of the exterior sun visor
- Inside of the side-mounted air fairings
- Inside of the bumper

Gloss warranty claims pertaining to gloss issues on vehicles painted with low-gloss colors (as identified in the Data Books) are the Dealer's responsibility and will not be honored by warranty.

#### **ROUTINE MAINTENANCE**

Routine maintenance, servicing, and adjustment, as defined in the applicable Vehicle Maintenance Manual and Driver's Manual, are excluded from warranty.

Periodic adjustment or retorquing of wheel bearings, wheel lug nuts, and suspension U-bolts are considered maintenance adjustments and are not covered under warranty.

Vibrations, squeaks, rattles, loose fittings/clamps, hose fitting leaks, loose nuts/bolts/screws, and loose electrical connections may develop during the initial trip(s) of the vehicle and these types of repairs/adjustments are covered under warranty one time during the following applicable initial operating periods unless excluded in the paragraphs below.

Reminder: After the **initial operating period (up to 15,000m/24 000k)**, the following developments are the result of use and their repair/adjustment activities are considered routine maintenance and thus excluded from warranty.

Exclusions from warranty during the initial operating period are:

Cab, hood, and fender-mounted mirrors are adjusted at the factory but may be retracted by the transporter to prevent damage during transport. Subsequent adjustments and tightening of mirror mounting hardware are considered part of the routine preparation of the vehicle before Customer delivery. Claims for adjusting the mirrors or tightening of the attaching hardware will not be paid under warranty during the initial operating period or after.

Claims for re-routing of electrical wiring, hoses, or lines which meet Company's routing standards will not be paid under warranty during the initial operating period or after.

Final preparation of the vehicle for Customer delivery to include cleaning/vacuumping interior of cab, washing windows, washing the exterior of the vehicle, polishing exterior chromed or painted surfaces are considered as delivering-Dealer responsibilities. Claims for these activities will not be paid under warranty during the initial operating periods or after.

The following is a summary of PDI activities, (as stated in the applicable vehicle service manuals), where the labor time for performing the activity is included in the normal PDI reimbursement process:

- Adjusting headlights
- Adjusting tire pressure
- Tightening of fittings, clamps, and connections on airlines; engine oil lines, radiator, coolant, and heater hoses; fuel lines; power steering and other hydraulic brake or clutch lines
- Tightening of spring/suspension u-bolts
- Tightening of drain and fill plugs
- Tightening of battery cable clamps and connections
- Torquing of drive-axle flanged fasteners
- Torquing of wheel nuts

Warranty claims for these repairs or adjustments will be allowed once during the initial operating period if performed by a Dealer other than the Dealer performing the PDI. Claims for these repairs or adjustments will not be accepted from the Dealer or center performing the PDI.

#### **SHIP LOOSE ITEMS AND COMPONENTS**

During the manufacturing process, certain vehicle components are normally placed in the cab of the vehicle or strapped down to the chassis for security reasons. It is the Dealer's

responsibility to mount these "ship loose" items in the correct location on the vehicle. Mounting of "ship loose" items will not be covered under warranty. These items include, but may not be limited to, the following:

- Antennas
- Fire extinguishers
- Trailer air hoses
- Trailer electrical cables
- Winter fronts
- Tire inflation hoses
- Spare wheels/tires
- Chrome lug nut covers
- Driver's pouch
- Jacks

Collapsible roof air fairings are collapsed on the roof of the vehicle at time of manufacture to accommodate the transport process. It is the Dealer's responsibility to mount these fairings correctly. Claims for mounting of these collapsed fairings will not be covered under warranty.

#### **TEST VEHICLES**

Any vehicles being used in testing or used to test specific components must be identified to the Warranty Department and accommodations must be made for claims that relate to the test item(s).

Any vehicles used in endurance testing, such as the Altoona Test, are void of all warranty, new or used.

#### **TIRES AND TIRE BALANCING**

The tires are not covered under this warranty but are warranted separately by the tire manufacturer. Tire balancing is not covered under warranty.

#### **1.5 Transfer of Warranty**

This warranty is transferable to a subsequent owner if it has not expired. Contact dealership to update ownership information.

#### **1.6 Change of Owner Address Information**

To ensure Company's ability to reach the current owner with Recall and Field Service campaign information, the owner's account must be updated whenever there is a change to the Owner's name or address. Contact dealership to update ownership information.

#### **1.7 Product Improvement**

Company reserves the right to make improvements or changes to the product at any time without incurring any obligation to make such changes or improvements to any other vehicle.

#### **1.8 Owner's Responsibilities**

It is the owner's responsibility to ensure the vehicle is maintained as outlined in the Driver's/Operator's and Maintenance Manuals. It is important to be familiar with the contents of the warranty information. When first receiving the vehicle, thoroughly review the owner's warranty information.

To initiate warranty, owner should provide dealer with completed and signed Warranty Start Form.



# Turning Radius Report

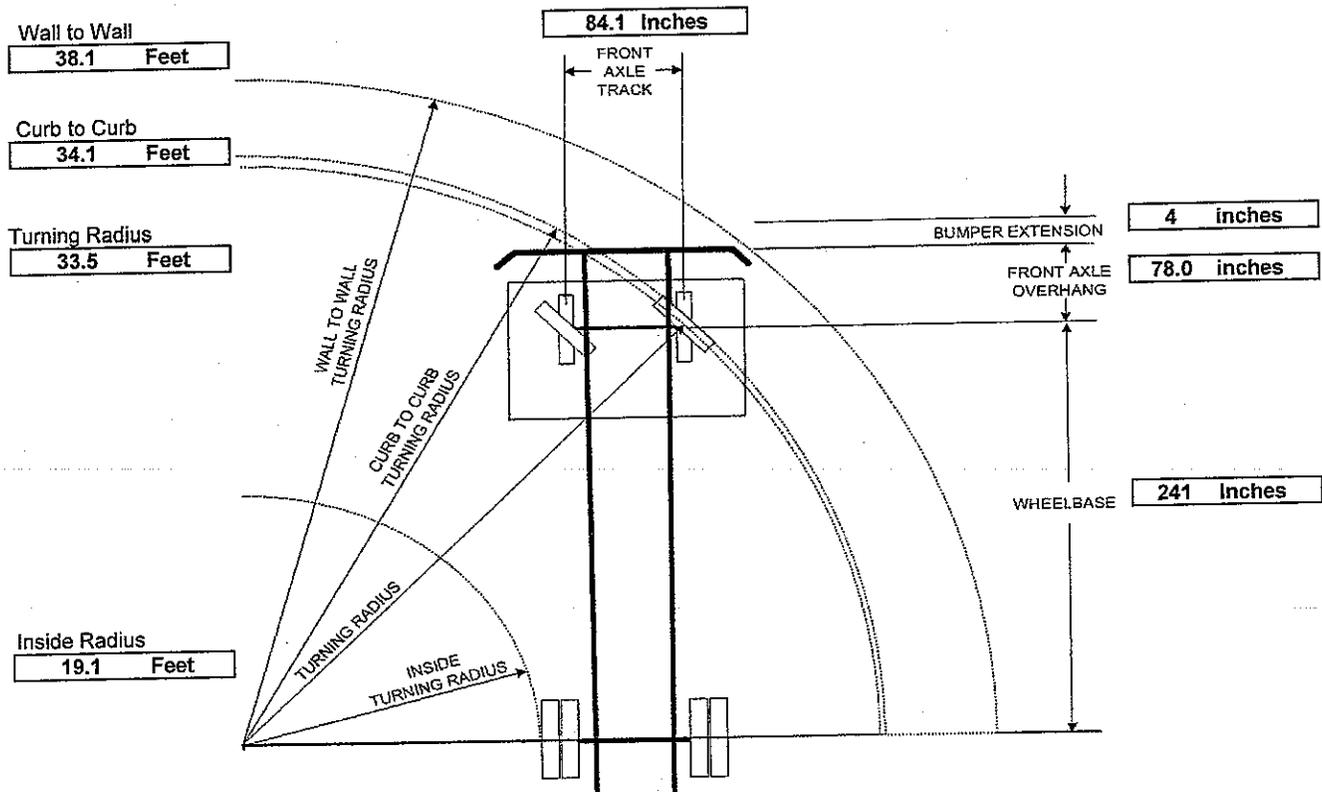
Prepared for: MIAMI-DADE COUNTY

Project: XXXXX

### Calculation Input Information :

Chassis Type: CONDOR LOW CAB FORWARD CHASSIS  
Front Axle: Front Axle Package, 20,000 lbs, Meritor, MFS-20-133A  
Front Tire: GOODYEAR G289 WHA 315/80R22.5 20 PLY RADIAL  
Front Wheel: ACCURIDE 29039 22.5X9.00 10-HUB PILOT 5.25 INSET 5-HAND STEEL DISC  
Front Brakes: Meritor 16.5"x 7" Q+ Drum Brakes  
Rear Axle: RT-46-160 R-Series Rear Axle @ 46,000#  
Rear Wheel Type: Steel Wheels  
Front Frame Ext: 4" Bolt-On Fire Service Front Frame Extension

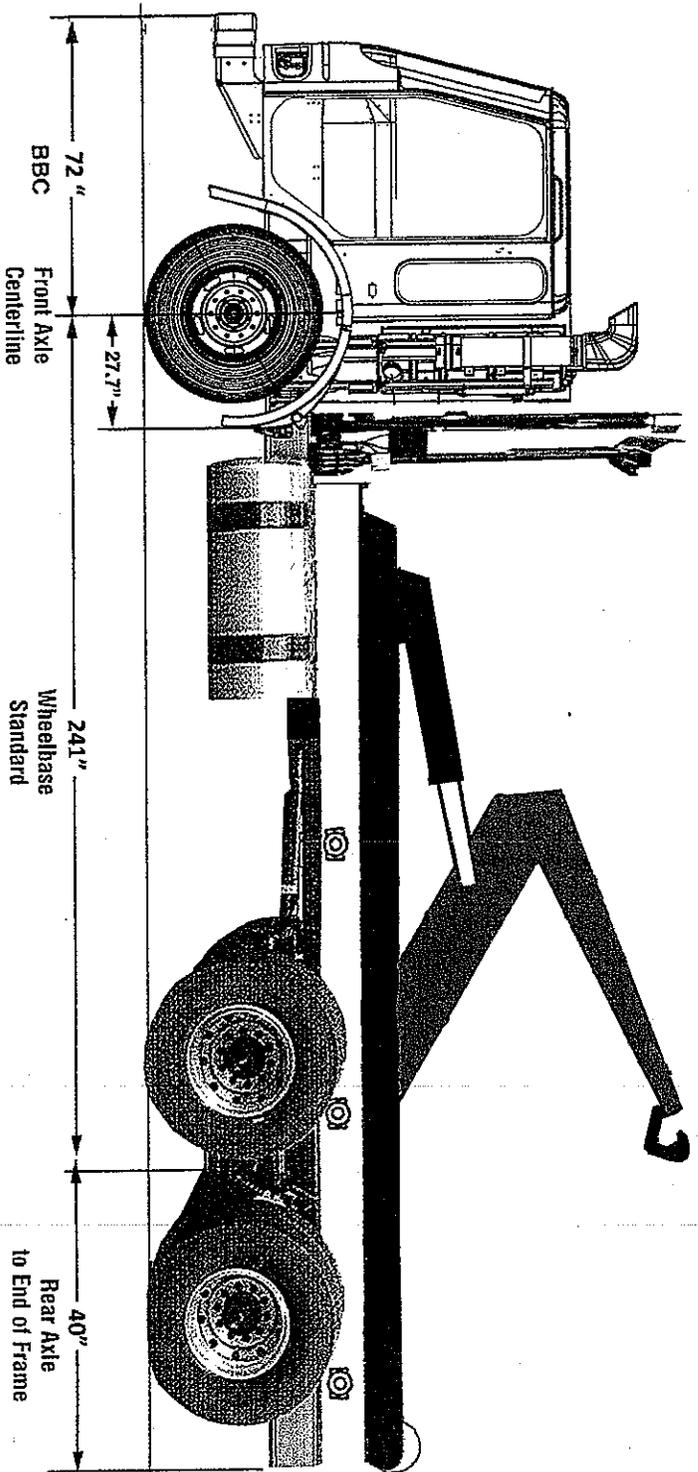
45	Maximum Turning Angle of Selected Axle in Degrees
45	Maximum Turning (Cramp) Angle of Axle with Selected Wheel Equipment in Degrees



The measurements provided are based on perfect Ackerman geometry. This is impossible to achieve on an actual chassis. The measurements could be plus or minus up to two feet based on the actual chassis produced. These measurements are meant to be used for general information and should not be used to design any permanent buildings or roadways.

# Metro Dade Bid #9719-0/18

Condor Model 880 / Galbreath U6-DPHK-200



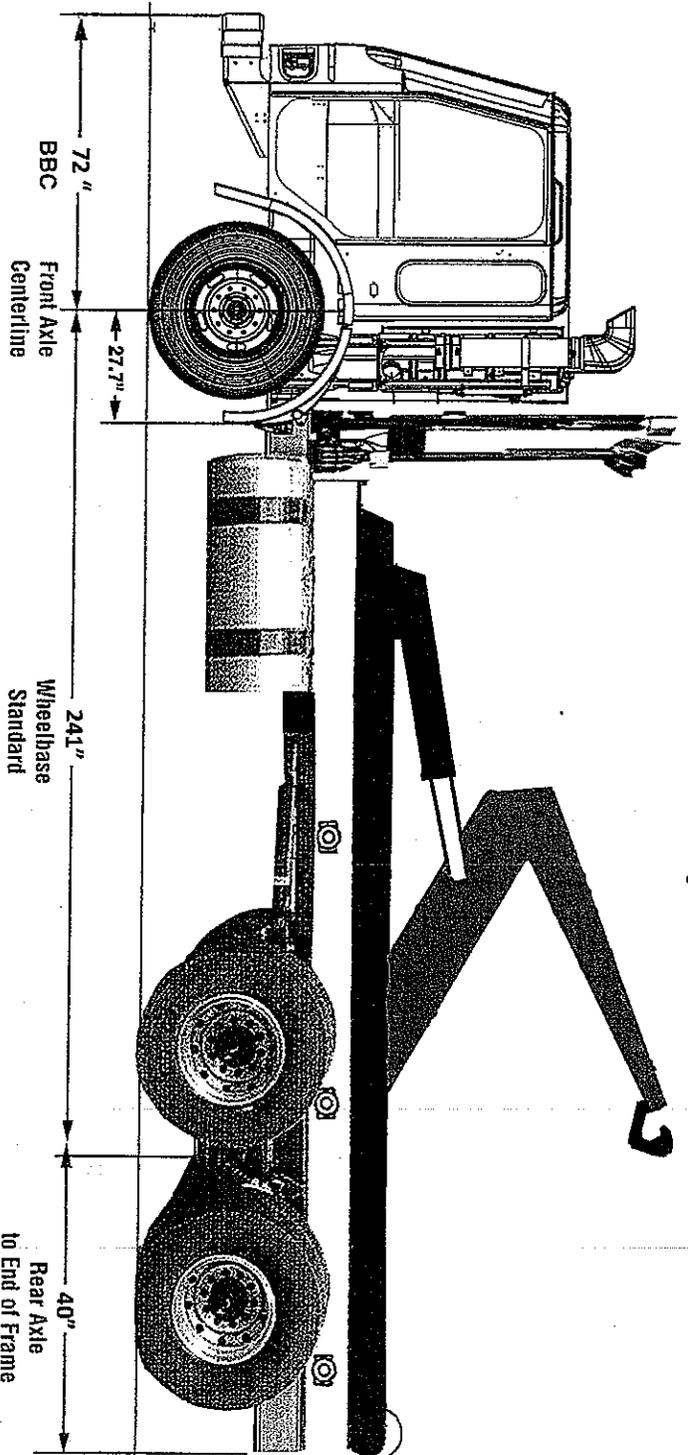
<b>Front</b>	<b>Rear</b>	<b>Total</b>
<b>Chassis</b>	<u>7,040 lbs.</u>	<u>18,995 lbs.</u>
<b>Body/Tarp</b>	<u>7,846 lbs.</u>	<u>8,500 lbs.</u>
<b>Payload</b>	<u>29,114 lbs.</u>	<u>34,505 lbs.</u>
<b>Total Front</b>	<u>44,000 lbs.</u>	<u>62,000 lbs.</u>

Note: Chassis weight has included (1) driver & (1) completely filled fuel Tank in its weight  
 This Total Capacity is based on the Metro Dade registering truck for the minimum axle weight.  
 Payload Capacity has container weight included.

## Weight Distribution & Dimension Chart LOADED

# Metro Dade Bid #9719-0/18

Condor Model 880 / Galbreath U6-DPHK-200



## Front

Chassis 11,955 lbs.

Body/Tarp 654 lbs.

## Rear

7,040 lbs.

7,846 lbs.

## Total

18,995 lbs.

8,500 lbs.

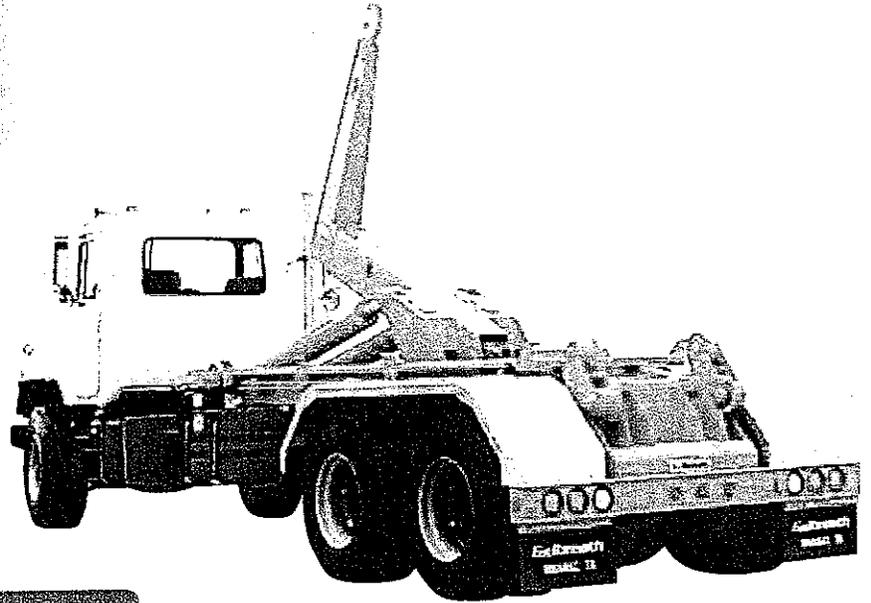
Note: Chassis weight has included (1) driver & (1) completely filled fuel Tank in its weight

Weight Distribution & Dimension Chart

UNLOADED

## 60,000 lb. Capacity

### Hook-Lift Hoists » Tandem Axle



### DOUBLE-PIVOT HOOK HOIST

#### **U6-DPHK-224**

- Use for Container Sizes: 20'-24'
- 60,000 lb. Capacity
- 224" CT (cab to trunnion) Dimension
- Double-Pivot Hook
- 61 3/4" Hook Height
- Rear Stabilizer Roller

#### **U6-DPHK-200**

- Use for Container Sizes: 18'-22'
- 60,000 lb. Capacity
- 200" CT (cab to trunnion) Dimension
- Double-Pivot Hook
- 61 3/4" Hook Height
- Rear Stabilizer Roller

#### **U6-DPHK-176**

- Use for Container Sizes: 16'-20'
- 60,000 lb. Capacity
- 176" CT (cab to trunnion) Dimension
- Double-Pivot Hook
- 61 3/4" Hook Height
- Rear Stabilizer Roller

**Ibreath®**

## 50,000 lb. Capacity » Hook-Lift Hoists » Tandem Axle

### DOUBLE-PIVOT HOOK HOIST

#### **U5-DPHK-224**

- Use for Container Sizes: 20'-24'
- 50,000 lb. Capacity
- 224" CT (cab to trunnion) Dimension
- Double-Pivot Hook
- 61 3/4" Hook Height

#### **U5-DPHK-200**

- Use for Container Sizes: 18'-22'
- 50,000 lb. Capacity
- 200" CT (cab to trunnion) Dimension
- Double-Pivot Hook
- 61 3/4" Hook Height

#### **U5-DPHK-176**

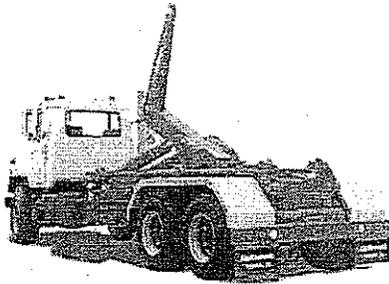
- Use for Container Sizes: 16'-20'
- 50,000 lb. Capacity
- 176" CT (cab to trunnion) Dimension
- Double-Pivot Hook
- 61 3/4" Hook Height

**Ibreath®**



[Request a Quote](#)

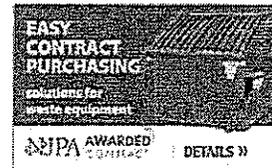
### GALBREATH HOOK HOISTS



The Galbreath Hook Hoist series is versatile and performs multiple functions such as dumping, spreading, transporting, flushing, hauling, recycling and cleaning. Hook hoists provide greater driver convenience since drivers never need to get out of the truck to load and unload a container. Galbreath Hook hoists also provide faster load/unload times. For use with outside rail containers.

**Features:**

- Superior maneuverability, versatility, and economy
- Tolerates imperfect alignment
- Up to a 62 degree dump angle for clean discharge
- Power loading and unloading for ultimate control
- Fast cycle times
- Superior in cab operation
- Bolt on replaceable hook for 30,000 - 60,000 lb. units
- All above chassis installation
- Counter balance valves in cylinders deter cylinder run-away
- Contoured steel fenders are standard on 30,000 - 60,000 lb. units
- Inside air controls are standard on 30,000 - 60,000 lb. units
- Hardened steel bushings on 30,000 - 60,000 lb. units
- Steel hydraulic tank is standard on 30,000 - 60,000 lb. units (all units)
- Bumper with recessed LED lights
- 3-year warranty on all hydraulic components

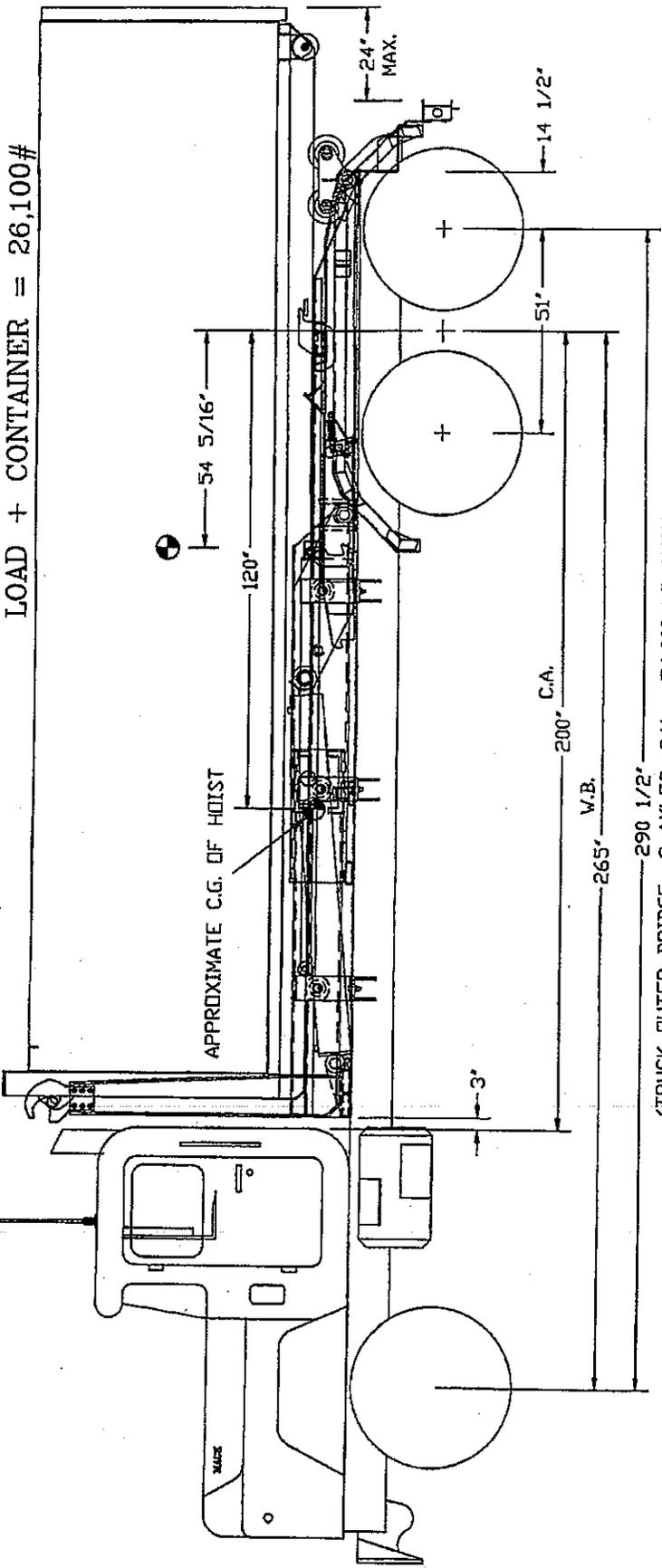


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NOTE: ADD 8"-11" FOR TARP SYSTEM CA208-211

LOAD + CONTAINER = 26,100#



(TRUCK OUTER BRIDGE- 3 AXLES, 24' - 54,000 L.B. MAX.)

FRONT AXLE TRUCK TANDEM

TRUCK	9,158 LB.	10,488 LB.
HOIST	3,509 LB.	4,241 LB.
LOAD	5,349 LB.	20,751 LB.
TOTAL	*18,016 LB.	35,480 LB.

RESULTS

TRUCK OUTER BRIDGE (25 FT. \ 3 AXLES): 53,496 LB.  
 TOTAL TRUCK WEIGHT = 53,496 LB.  
 \* LIMITING CAPACITY

WEIGHT DISTRIBUTION

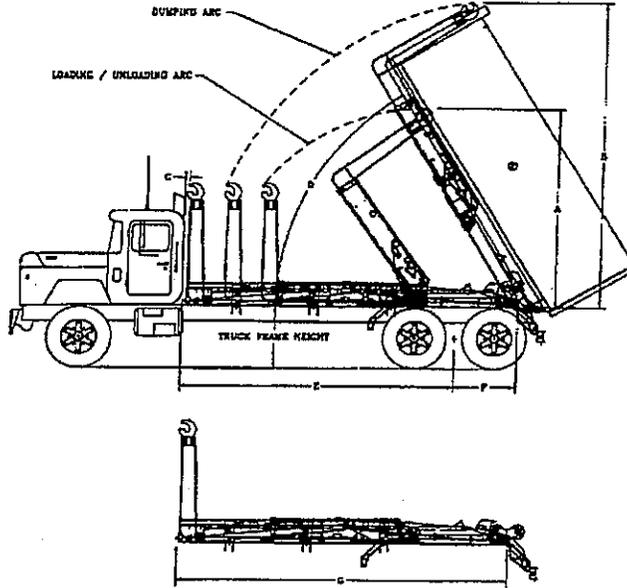
FRONT 34%  
 TANDEM 66%

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		SCALE 1/40" = 1'	BOOK NO. 18
INCORPORATED WINAMAC, INDIANA		BY GEORGE	NO. IS4355
		DATE 11/22/99	
		WEIGHT DISTRIBUTION 22FT CONT.	
		HOISTS H2	
		U5/U6-HK-200	



**SPECIFICATIONS:**

**U5-HK-176 / U5-HK-200 / U6-HK-176 / U6-HK-200**



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 Ph: 817-477-4564 • Fax: 817-473-7657  
 800-297-0668 (Inside USA)

Highway 75 South, Route #1, P.O. Box 160  
 Ider, AL 35981  
 Ph: 205-657-6140 • Fax: 205-657-6147  
 800-964-6478 (Inside USA)

HOIST MODELS	U5-HK-176	U5-HK-200	U6-HK-176	U6-HK-200
* (A) MAXIMUM HOOK HEIGHT ABOVE TRUCK FRAME LOADING / UNLOADING	132 5/8"	132 5/8"	132 5/8"	132 5/8"
* (B) MAXIMUM HOOK HEIGHT ABOVE TRUCK FRAME DUMPING	203 5/16"	203 5/16"	203 5/16"	203 5/16"
(C) CAB TO HOIST	3"	3"	3"	3"
(D) RAISED ANGLE	58°	58°	58°	58°
(E) CAB TO AXLE	176"	200"	176"	200"
(F) AFTER FRAME	40"	40"	40"	40"
(G) HOIST LENGTH	213"	237"	213"	237"
RATED CAPACITY	50,000 LBS	50,000 LBS	60,000 LBS	60,000 LBS
LIFT CYLINDERS	7" x 3 1/2" x 81"			
JIB CYLINDER	4" x 2 1/2" x 48"			
RECOMMENDED CONTAINER LENGTH	16' - 20'	18' - 22'	16' - 20'	18' - 22'
APPROX. WEIGHT	6,839 LBS	7,483 LBS	7,859 LBS	8,003 LBS

1. FACTORY TESTED WITH RECOMMENDED CONTAINER LENGTH AND WATER LEVEL LOAD.  
 2. WHEN RECOMMENDING CONTAINER LENGTHS, WEIGHT DISTRIBUTION, DUMP ANGLE, AND OVERHANG ARE FACTORS.

\* TOTAL MAXIMUM HEIGHT WILL DEPEND ON CONTAINER. CONSULT ENGINEERING FOR CLEARANCE.



## **MODEL U5-HK-176 / U5-HK-200 / U6-HK-176 / U6-HK-200**

**CROSS MEMBERS** — STRUCTURAL TUBING 62,000 LBS. MIN TENSILE A500 GRADE C

**MAIN FRAME** — HSLA A572 65,000 LBS. MIN TENSILE

**JIB FRAME** — A514 T-1 & STRUCTURAL TUBING A500 GRADE C

**PIVOT TUBE** — A514 T-1 100,000 PSI MINIMUM YIELD

**PICKUP HOOK** — A514 T-1 100,000 PSI MINIMUM YIELD

**LIFT CYLINDER PINS** — 2 3/4" SOLID ( 91,000 LB. TENSILE )

**HINGE SHAFT** — 2 1/2" SOLID ( 91,000 LB. TENSILE )

**JIB BEARING** — 6M POLYMER

**PAINTED BLACK**

**ALL PIVOT JOINTS HAVE HARDENED STEEL BUSHINGS AND GREASE FITTINGS**

**REAR STABILIZER STANDARD ON U6 MODELS**

**OUTBOARD SUPPORTED UPPER LIFT SHAFT**

**MECHANICAL INTERLOCK BETWEEN TAIL AND PIVOT ASSEMBLY**

**OUTSIDE CONTROLS STANDARD**

**ALUMINUM DIAMOND PLATE FENDER STANDARD**

**FULL WIDTH BUMPER WITH RECESSED LIGHTS STANDARD**

**RUBBER MOUNTED SEALED LIGHTS STANDARD**

**INSIDE AIR OPERATED CONTROLS STANDARD**

**POLYURETHANE RESERVOIR WITH 10 MICRON AIR BREATHER, 25 MICRON IN TANK RETURN FILTER AND FILLER, SIGHT GAUGE WITH TEMPERATURE GAUGE**

### **CYCLE TIMES AT APPROXIMATELY 37.5 GPM**

**EXTENDING DUMP (58°) - 43 SECONDS**

**EXTENDING JIB - 4 SECONDS**

**RETRACTING DUMP - 32 SECONDS**

**RETRACTING JIB - 3 SECONDS**

### **HYDRAULIC SYSTEM**

**2 SPOOL (U5 MODELS) 3 SPOOL (U6 MODELS) AIR OPERATED GRAPHITE IMPREGNATED SECTIONAL VALVE WITH MANUAL CONTROLS OUTSIDE**

**7" X 3 1/2" X 81" LIFT CYLINDERS WITH BUILT-IN COUNTERBALANCE VALVES**

**6" X 3" X 4.81" STABILIZER CYLINDERS WITH BUILT-IN COUNTERBALANCE VALVE ON U6 MODEL**

**4" X 2 1/2" X 48" JIB CYLINDER WITH BUILT-IN COUNTERBALANCE VALVE**

**OPERATING PRESSURE - 3500 PSI**

### **MINIMUM TRUCK SPECIFICATIONS**

**FRONT AXLE: 18,000 LB. (WITH POWER STEERING)**

**REAR AXLE: 44,000 LB.**

**TOTAL BENDING MOMENT (BOTH FRAME CHANNELS): 4,800,000 IN-LB.**

**36,000 PSI CHASSIS FRAME: MINIMUM SECTION MODULUS = 33.3 IN<sup>3</sup>**

**50,000 PSI CHASSIS FRAME OR MORE: MINIMUM SECTION MODULUS = 24 IN<sup>3</sup>**

**GALBREATH INCORPORATED**  
**MODEL U30, U5 & U6 HOOKLIFT HOIST**  
**LIMITED WARRANTY & LIMITED LIFETIME FRAME WARRANTY**

GALBREATH INCORPORATED ("GALBREATH") warrants its hook hoist pivot assembly weldment, and hook tube weldment against failure, as the result of corrosion, for the life of the hoist frame while it's mounted to the original chassis. (IS4064, IS4065)

GALBREATH warrants the reservoir, pump, hydraulic control valve, and hydraulic cylinders against operational failure caused by defective material or workmanship, which occurs during normal use within two (2) years from date of shipment from our factory.

GALBREATH warrants the polyurethane reservoir, direct mount pump, hydraulic control valve with air controls, hydraulic cylinders, and hoses against operational failure caused by defective material or workmanship, which occurs during normal use within two (2) years from date of shipment from our factory.

GALBREATH warrants all other products of it's manufacture against operational failure caused by defective material or workmanship, which occurs during normal use within one (1) year from date of shipment from our factory.

GALBREATH will replace all parts of our manufacture free of charge that our inspection at our factory shows to us to be defective in accordance with the above paragraph. **Written permission must be obtained from authorized Galbreath Personnel for any repairs performed other than in our factory.** All claims for reimbursement must be filed with proper documentation no later than forty-five (45) days after occurrence to be allowed.

All products purchased by GALBREATH from an outside vendor shall be covered by the warranty of that respective vendor only, and GALBREATH does not participate in or obligate itself to any such warranty.

No freight, travel cost, meals, lodging, or loss of hydraulic oil shall be covered by this warranty, all labor costs allowed shall be in accordance with GALBREATH'S established rate; in case of alleged defect, product shall be returned to GALBREATH with transportation charges prepaid. No freight collect shipment will be accepted.

GALBREATH makes no warranty on any of it's equipment used in any way except as it was designed, intended, and sold to perform.

**DISCLAIMER OF WARRANTIES.** THE LIMITED AND CONDITIONAL WARRANTY AND REMEDIES SET FORTH ABOVE ARE EXCLUSIVE AND IN LIEU OF ANY AND ALL REPRESENTATIONS, SPECIFICATIONS, WARRANTIES AND REMEDIES, EITHER EXPRESS OR IMPLIED, HEREIN OR ELSEWHERE, OR WHICH MIGHT ARISE UNDER LAW OR EQUITY, OR PURSUANT TO ANY COURSE OF DEALING OR CUSTOM OR USAGE OF TRADE, INCLUDING WITHOUT LIMITATION, ANY WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR ANY SPECIFIED OR INTENDED PURPOSE.

**LIMITATION OF REMEDIES AND LIABILITY.** PURCHASER'S SOLE AND EXCLUSIVE REMEDY AGAINST GALBREATH SHALL BE THE REMEDY OF DEFECTS IN PRODUCTS DELIVERED HEREUNDER AS PROVIDED BY, AND WITHIN THE TIME PERIOD SPECIFIED IN, GALBREATH'S LIMITED WARRANTY SET FORTH ABOVE. GALBREATH'S LIMITED WARRANTY CONSTITUTES THE SOLE REMEDY WITH RESPECT TO OR ARISING OUT OF THE EQUIPMENT, PRODUCTS OR SERVICES OF GALBREATH. NOTWITHSTANDING ANY OTHER PROVISIONS HEREOF, IN NO EVENT SHALL GALBREATH BE LIABLE IN CONTRACT, TORT OR EQUITY FOR ANY LOSS OF ANTICIPATED PROFITS, LOST SALES, INJURY TO PERSONS OR PROPERTY, LOSS BY REASON OF PLANT SHUTDOWN, NON-OPERATION OR INCREASED EXPENSE OF OPERATION, SERVICE INTERRUPTIONS, CLAIMS OF CUSTOMERS, COST OF MONEY, LOSS OF USE OF CAPITAL OR REVENUE, OR FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL LOSSES OR DAMAGES OF ANY KIND WHATSOEVER.

All claims shall be processed through the GALBREATH Customer Service Department or your authorized GALBREATH dealer.

GALBREATH INCORPORATED  
Revised 2/25/00

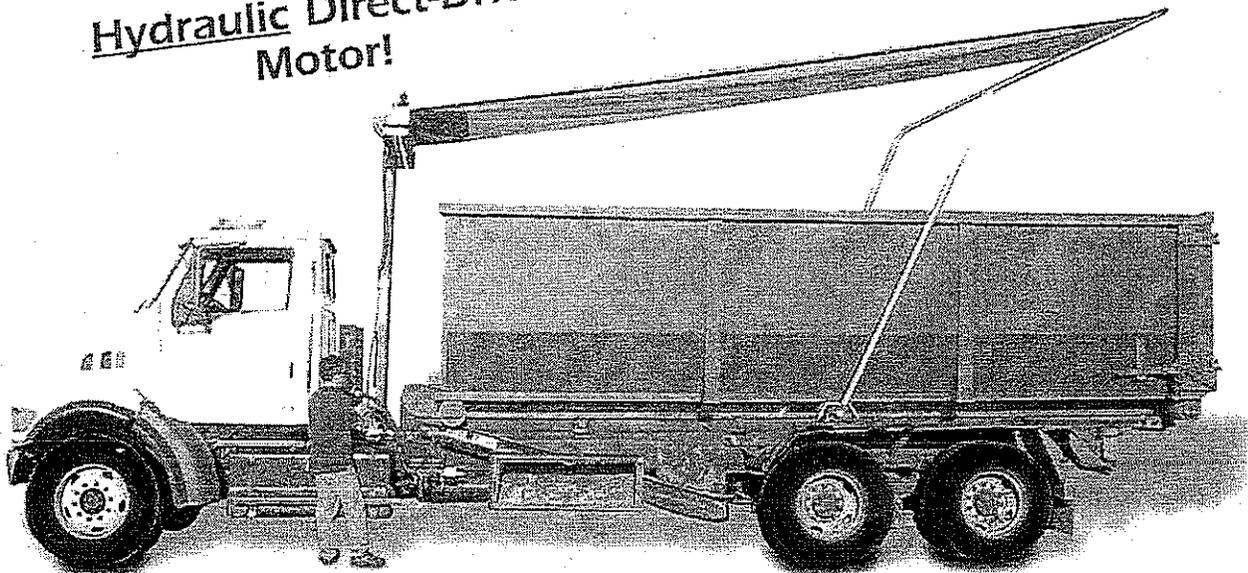
*Automatic rolloff tarping just got affordable!*

NEW  
&  
IMPROVED!

# QUICK FLIP II

Automatic Rolloff Tarp System

Featuring  
Hydraulic Direct-Drive  
Motor!



Longest lasting  
tarp in the industry -  
comes standard

**Affordable!**

All the performance at half the price of other tarpers!

**Hassle-Free Tarping!**

Easy to install, easy to maintain... less moving parts.

**Hydraulic Direct-Drive Motor!**

**Mighty Mesh Tarp!**

No other tarp comes close. #1 in durability. #1 in customer satisfaction!



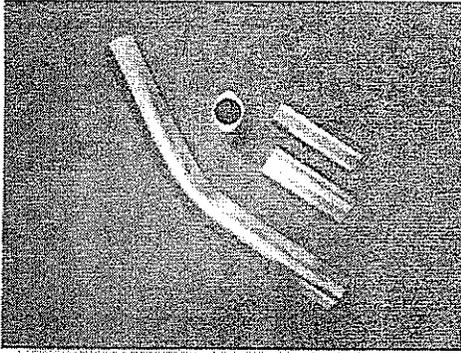
800-327-8287 ■ Fax: 772.287.0431  
[www.donovan-ent.com](http://www.donovan-ent.com)

*Automatic rolloff tarping just got affordable!*

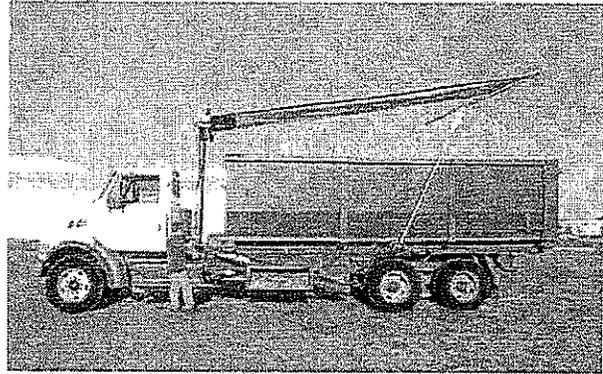
NEW  
&  
IMPROVED!

# QUICK FLIP II

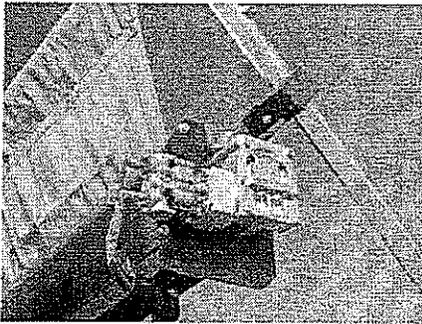
Automatic Rolloff Tarp System



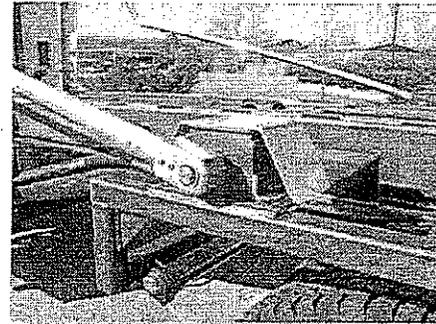
Pivot arms Guaranteed for Life not to break due to defects in material.



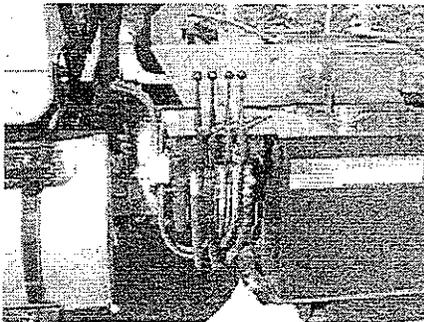
Gantry raises to 8' to cover 15-40 cu. yd. containers



Hydraulic direct drive motor deploys and retracts tarp.



Heavy duty spring housing offers easy access for maintenance



2-spool control valve & priority flow control valve included.



Each QuickFlip II system includes a 8' x 28' Mighty Mesh tarp at no up charge! (Mighty Mesh is the most durable tarp fabric available anywhere... bar none!)

Call Lynn or Jody today to find a Donovan dealer near you!



1-800-327-8287 • Fax: 772-287-0431  
[www.donovan-ent.com](http://www.donovan-ent.com)



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 800-285-0666 (Inside USA)

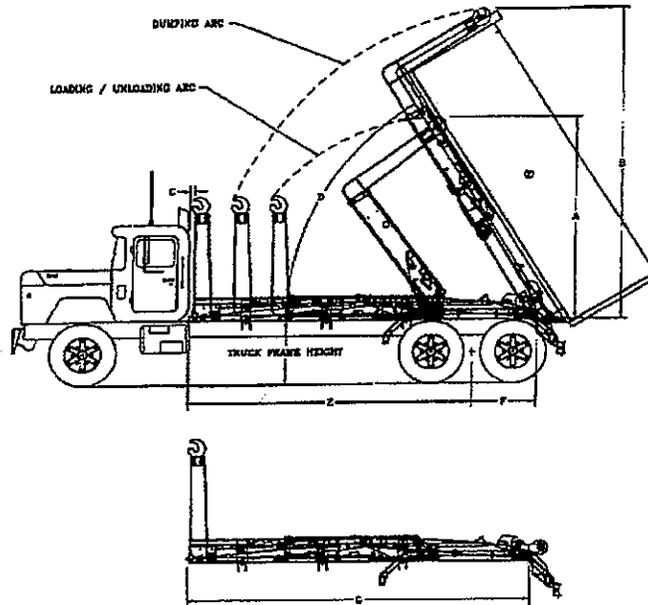
<http://www.galbreath-inc.com>

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 800-297-0668 (Inside USA)

Highway 75 South, Route #1, P.O. Box 160  
 Idet, AL 35981  
 Ph: 205-657-6140 • Fax: 205-657-6147  
 800-964-6478 (Inside USA)

**SPECIFICATIONS:**

**U5-HK-176 / U5-HK-200 / U6-HK-176 / U6-HK-200**



HOIST MODELS	U5-HK-176	U5-HK-200	U6-HK-176	U6-HK-200
* (A) MAXIMUM HOOK HEIGHT ABOVE TRUCK FRAME LOADING / UNLOADING	132 5/8"	132 5/8"	132 5/8"	132 5/8"
* (B) MAXIMUM HOOK HEIGHT ABOVE TRUCK FRAME DUMPING	203 5/16"	203 5/16"	203 5/16"	203 5/16"
(C) CAB TO HOIST	3"	3"	3"	3"
(D) RAISED ANGLE	58°	58°	58°	58°
(E) CAB TO AXLE	176"	200"	176"	200"
(F) AFTER FRAME	40"	40"	40"	40"
(G) HOIST LENGTH	213"	237"	213"	237"
RATED CAPACITY	50,000 LBS	50,000 LBS	60,000 LBS	60,000 LBS
LIFT CYLINDERS	7" x 3 1/2" x 81"			
JIB CYLINDER	4" x 2 1/2" x 48"			
RECOMMENDED CONTAINER LENGTH	16' - 20'	18' - 22'	16' - 20'	18' - 22'
APPROX. WEIGHT	6,839 LBS	7,483 LBS	7,859 LBS	8,003 LBS

- 1) FACTORY TESTED WITH RECOMMENDED CONTAINER LENGTH AND WATER LEVEL LOAD.
- 2) WHEN RECOMMENDING CONTAINER LENGTHS: WEIGHT DISTRIBUTION, DUMP ANGLE, AND OVERHANG ARE FACTORS.
- \* TOTAL MAXIMUM HEIGHT WILL DEPEND ON CONTAINER. CONSULT ENGINEERING FOR CLEARANCE.



## **MODEL U5-HK-176 / U5-HK-200 / U6-HK-176 / U6-HK-200**

**CROSS MEMBERS** — STRUCTURAL TUBING 62,000 LBS. MIN TENSILE A500 GRADE C

**MAIN FRAME** — HSLA A572 65,000 LBS. MIN TENSILE

**JIB FRAME** — A514 T-1 & STRUCTURAL TUBING A500 GRADE C

**PIVOT TUBE** — A514 T-1 100,000 PSI MINIMUM YIELD

**PICKUP HOOK** — A514 T-1 100,000 PSI MINIMUM YIELD

**LIFT CYLINDER PINS** — 2 3/4" SOLID ( 91,000 LB. TENSILE )

**HINGE SHAFT** — 2 1/2" SOLID ( 91,000 LB. TENSILE )

**JIB BEARING** — 6M POLYMER

**PAINTED BLACK**

**ALL PIVOT JOINTS HAVE HARDENED STEEL BUSHINGS AND GREASE FITTINGS**

**REAR STABILIZER STANDARD ON U6 MODELS**

**OUTBOARD SUPPORTED UPPER LIFT SHAFT**

**MECHANICAL INTERLOCK BETWEEN TAIL AND PIVOT ASSEMBLY**

**OUTSIDE CONTROLS STANDARD**

**ALUMINUM DIAMOND PLATE FENDER STANDARD**

**FULL WIDTH BUMPER WITH RECESSED LIGHTS STANDARD**

**RUBBER MOUNTED SEALED LIGHTS STANDARD**

**INSIDE AIR OPERATED CONTROLS STANDARD**

**POLYURETHANE RESERVOIR WITH 10 MICRON AIR BREATHER, 25 MICRON IN TANK RETURN FILTER AND FILLER, SIGHT GAUGE WITH TEMPERATURE GAUGE**

### **CYCLE TIMES AT APPROXIMATELY 37.5 GPM**

**EXTENDING DUMP (58°) - 43 SECONDS**

**EXTENDING JIB - 4 SECONDS**

**RETRACTING DUMP - 32 SECONDS**

**RETRACTING JIB - 3 SECONDS**

### **HYDRAULIC SYSTEM**

**2 SPOOL (U5 MODELS) 3 SPOOL (U6 MODELS) AIR OPERATED GRAPHITE IMPREGNATED SECTIONAL VALVE WITH MANUAL CONTROLS OUTSIDE**

**7" X 3 1/2" X 81" LIFT CYLINDERS WITH BUILT-IN COUNTERBALANCE VALVES**

**6" X 3" X 4.81" STABILIZER CYLINDERS WITH BUILT-IN COUNTERBALANCE VALVE ON U6 MODEL**

**4" X 2 1/2" X 48" JIB CYLINDER WITH BUILT-IN COUNTERBALANCE VALVE**

**OPERATING PRESSURE - 3500 PSI**

### **MINIMUM TRUCK SPECIFICATIONS**

**FRONT AXLE: 18,000 LB. (WITH POWER STEERING)**

**REAR AXLE: 44,000 LB.**

**TOTAL BENDING MOMENT (BOTH FRAME CHANNELS): 4,800,000 IN-LB.**

**36,000 PSI CHASSIS FRAME: MINIMUM SECTION MODULUS = 33.3 IN<sup>4</sup>**

**50,000 PSI CHASSIS FRAME OR MORE: MINIMUM SECTION MODULUS = 24 IN<sup>4</sup>**

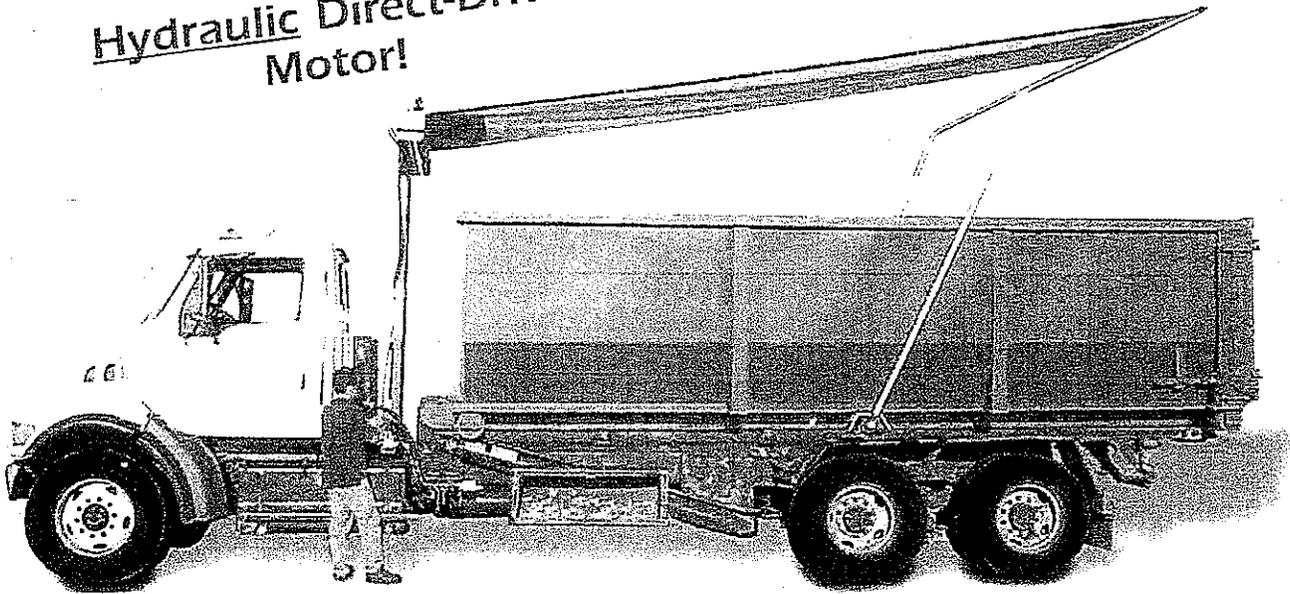
*Automatic rolloff tarping just got affordable!*

NEW  
&  
IMPROVED!

# QUICK FLIP II

Automatic Rolloff Tarp System

Featuring  
Hydraulic Direct-Drive  
Motor!



Longest lasting  
tarp in the industry -  
comes standard

**Affordable!**

All the performance at half the price of other tarpers!

**Hassle-Free Tarping!**

Easy to install, easy to maintain... less moving parts.

**Hydraulic Direct-Drive Motor!**

**Mighty Mesh Tarp!**

No other tarp comes close. #1 in durability. #1 in customer satisfaction!



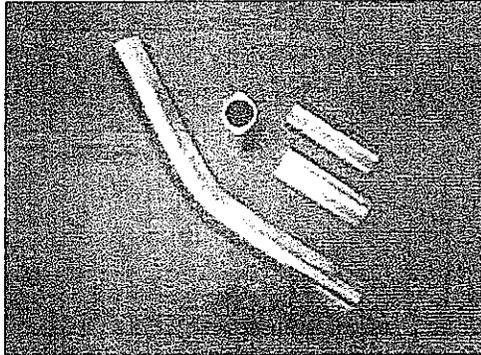
800-327-8287 ■ Fax: 772.287.0431  
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Automatic rolloff tarping just got affordable!

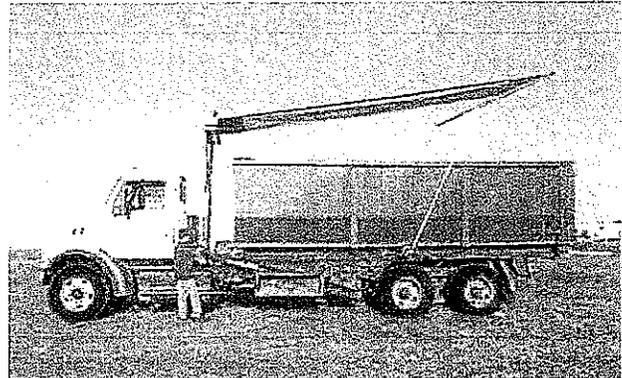
NEW  
&  
IMPROVED!

# QUICK FLIP II

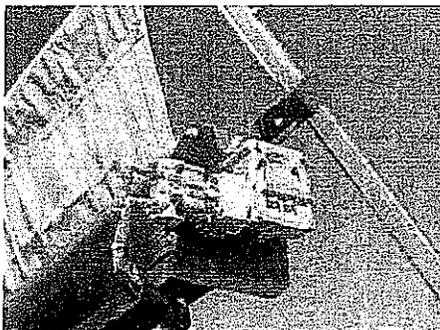
Automatic Rolloff Tarp System



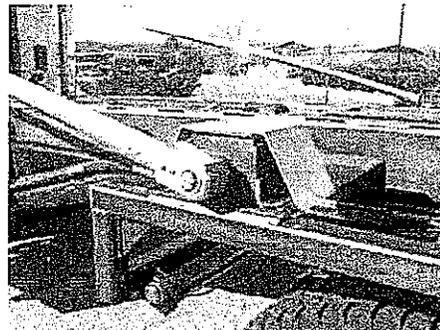
Pivot arms Guaranteed for Life not to break due to defects in material.



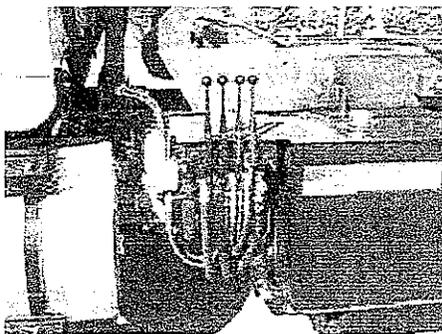
Gantry raises to 8' to cover 15-40 cu. yd. containers



Hydraulic direct drive motor deploys and retracts tarp.



Heavy duty spring housing offers easy access for maintenance



2-spool control valve & priority flow control valve included.



Each QuickFlip II system includes a 8' x 28' Mighty Mesh tarp at no up charge! (Mighty Mesh is the most durable tarp fabric available anywhere... bar none!)

Call Lynn or Jody today to find a Donovan dealer near you!



1-800-327-8287 • Fax: 772-287-0431  
[www.donovan-ent.com](http://www.donovan-ent.com)

**GALBREATH INCORPORATED**  
**MODEL U30,U5 & U6 HOOKLIFT HOIST**  
**LIMITED WARRANTY & LIMITED LIFETIME FRAME WARRANTY**

GALBREATH INCORPORATED ("GALBREATH") warrants its hook hoist pivot assembly weldment, and hook tube weldment against failure, as the result of corrosion, for the life of the hoist frame while it's mounted to the original chassis. (IS4064, IS4065)

GALBREATH warrants the reservoir, pump, hydraulic control valve, and hydraulic cylinders against operational failure caused by defective material or workmanship, which occurs during normal use within two (2) years from date of shipment from our factory.

GALBREATH warrants the polyurethane reservoir, direct mount pump, hydraulic control valve with air controls, hydraulic cylinders, and hoses against operational failure caused by defective material or workmanship, which occurs during normal use within two (2) years from date of shipment from our factory.

GALBREATH warrants all other products of it's manufacture against operational failure caused by defective material or workmanship, which occurs during normal use within one (1) year from date of shipment from our factory.

GALBREATH will replace all parts of our manufacture free of charge that our inspection at our factory shows to us to be defective in accordance with the above paragraph. **Written permission must be obtained from authorized Galbreath Personnel for any repairs performed other than in our factory.** All claims for reimbursement must be filed with proper documentation no later than forty-five (45) days after occurrence to be allowed.

All products purchased by GALBREATH from an outside vendor shall be covered by the warranty of that respective vendor only, and GALBREATH does not participate in or obligate itself to any such warranty.

No freight, travel cost, meals, lodging, or loss of hydraulic oil shall be covered by this warranty, all labor costs allowed shall be in accordance with GALBREATH'S established rate; in case of alleged defect, product shall be returned to GALBREATH with transportation charges prepaid. No freight collect shipment will be accepted.

GALBREATH makes no warranty on any of it's equipment used in any way except as it was designed, intended, and sold to perform.

**DISCLAIMER OF WARRANTIES.** THE LIMITED AND CONDITIONAL WARRANTY AND REMEDIES SET FORTH ABOVE ARE EXCLUSIVE AND IN LIEU OF ANY AND ALL REPRESENTATIONS, SPECIFICATIONS, WARRANTIES AND REMEDIES, EITHER EXPRESS OR IMPLIED, HEREIN OR ELSEWHERE, OR WHICH MIGHT ARISE UNDER LAW OR EQUITY, OR PURSUANT TO ANY COURSE OF DEALING OR CUSTOM OR USAGE OF TRADE, INCLUDING WITHOUT LIMITATION, ANY WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR ANY SPECIFIED OR INTENDED PURPOSE.

**LIMITATION OF REMEDIES AND LIABILITY.** PURCHASER'S SOLE AND EXCLUSIVE REMEDY AGAINST GALBREATH SHALL BE THE REMEDY OF DEFECTS IN PRODUCTS DELIVERED HEREUNDER AS PROVIDED BY, AND WITHIN THE TIME PERIOD SPECIFIED IN, GALBREATH'S LIMITED WARRANTY SET FORTH ABOVE. GALBREATH'S LIMITED WARRANTY CONSTITUTES THE SOLE REMEDY WITH RESPECT TO OR ARISING OUT OF THE EQUIPMENT, PRODUCTS OR SERVICES OF GALBREATH. NOTWITHSTANDING ANY OTHER PROVISIONS HEREOF, IN NO EVENT SHALL GALBREATH BE LIABLE IN CONTRACT, TORT OR EQUITY FOR ANY LOSS OF ANTICIPATED PROFITS, LOST SALES, INJURY TO PERSONS OR PROPERTY, LOSS BY REASON OF PLANT SHUTDOWN, NON-OPERATION OR INCREASED EXPENSE OF OPERATION, SERVICE INTERRUPTIONS, CLAIMS OF CUSTOMERS, COST OF MONEY, LOSS OF USE OF CAPITAL OR REVENUE, OR FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL LOSSES OR DAMAGES OF ANY KIND WHATSOEVER.

All claims shall be processed through the GALBREATH Customer Service Department or your authorized GALBREATH dealer.

GALBREATH INCORPORATED  
Revised 2/25/00

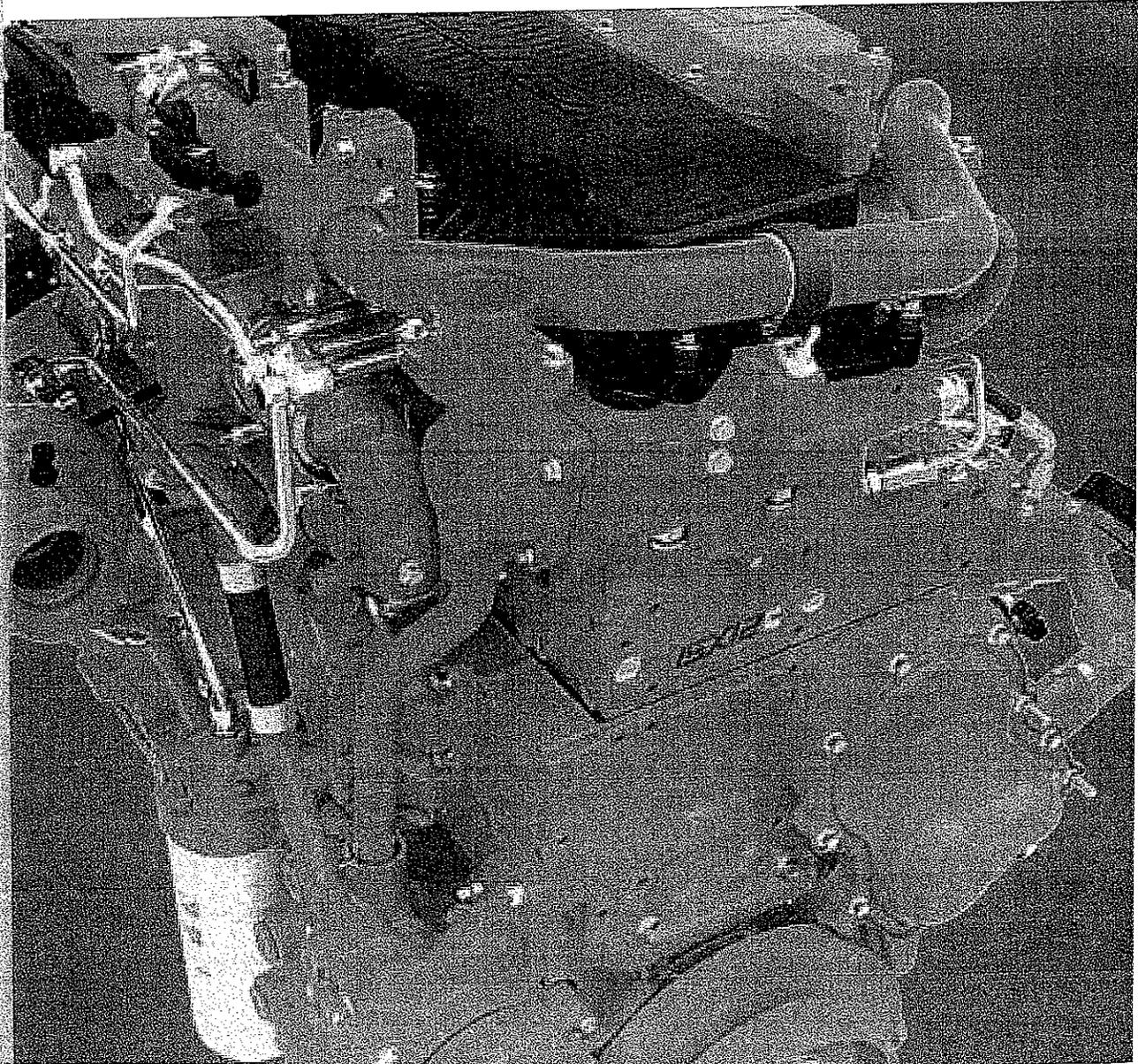
Engine / Trans

ENGINE / TRANS



Better. At Work.

Cummins 2013 ISX12 For Vocational  
And Day Cab Truck Applications.



# ISX12

## Better. Where It Counts.

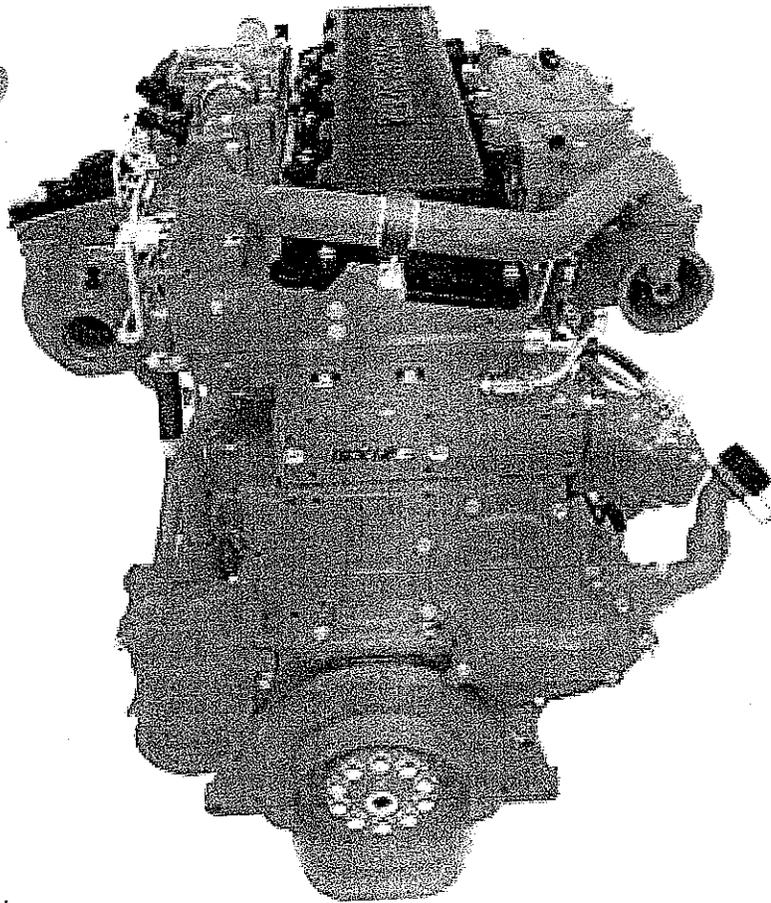
Cummins ISX12 is making a huge impact in work trucks of all types, from mixers and dump trucks to day cabs and less-than-truckload (LTL) operations. It combines the strength and reliability of proven technology from the ISX15 – the industry's most popular heavy-duty diesel – with a high power-to-weight ratio and over 800 lb-ft (1085 N•m) of clutch engagement torque.

To build on the success of the 2013 ISX12, we've refined our technology to deliver up to 2 percent better fuel economy versus the 2012 ISX12 while meeting 2014 U.S. Environmental Protection Agency (EPA) greenhouse gas (GHG) emissions standards and U.S. Department of Transportation (DOT) fuel-efficiency standards a full year ahead of schedule. How? A reduction in parasitic losses with a higher-efficiency water pump and fuel pump, optimized combustion and fewer active aftertreatment regenerations add up to better fuel economy.

Lowering fuel use results in less carbon dioxide (CO<sub>2</sub>) emissions (the main GHG being regulated), so achieving better fuel economy actually meets both standards.

Cummins is the only engine manufacturer that designs and develops every component from the air handling to the exhaust aftertreatment. Our totally integrated package allows us to optimize performance to a degree that no other engine manufacturer can match.

With the amount of fuel saved, you can expect your ISX12-powered trucks to meet the most demanding performance standards with a lower overall cost of operation. Because getting more out of every truck gets you more on the bottom line, every contract.



## Features For Every Function.

The ISX12 is ideal in operations calling for a compact heavy-duty engine. The ISX12 Vocational ratings are engineered to provide additional torque in the lower gear ranges, where it's needed most. We offer multiple options, including both Front- and Rear Engine Power Take-Off (FEPTO and REPTO) units and a selection of hydraulic drive options. This versatility makes the ISX12 an ideal choice for rear- and front-pouring mixers as well as dump trucks and refuse haulers.

We also offer standard ratings, with engine software configurations designed to deliver the precise combination of fuel economy and performance to meet the needs of regional and LTL fleets.

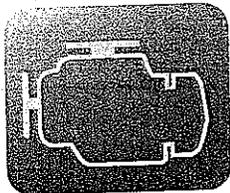
Regardless of your ISX12-powered application, you can expect Cummins ISX12 to deliver up to 2 percent better fuel economy versus the 2012 ISX12. The ISX12 is rated at 310 hp to 425 hp (231-317 kW), with up to 1650 lb-ft (2237 N•m) of peak torque.

Oil-change intervals for the 2013 ISX12 can be extended by 5,000 miles (8,000 km) with the use of Valvoline™ Premium Blue™ oil in normal-duty and light-duty cycle operation, helping to maximize uptime while reducing maintenance costs. The optional engine brake provides additional control, as it minimizes service brake wear and replacement costs.

### **New Standards. Proven Technology.**

The EPA and DOT have enacted new GHG and fuel-efficiency standards, scheduled to take effect in 2014.

The fact that Cummins is utilizing technology proven on commercial vehicle engines is one of the reasons we are meeting these requirements a full year ahead of schedule. Our Cummins 2013 engines will also be equipped with the required On-Board Diagnostics system that monitors and ensures optimal performance of the emissions system.



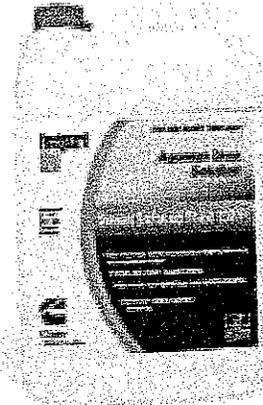
### **On-Board Diagnostics.**

Cummins proven On-Board Diagnostics system has been used in thousands of on-road vehicles since 2007. This system

continuously monitors performance of the emissions system, providing alerts via a Malfunction Indicator Lamp (MIL) on the instrument panel. The MIL illuminates when it detects a malfunction related to the emissions control system, alerting the operator that the engine needs proper troubleshooting and possible repair.

### **Every Benefit. Clear.**

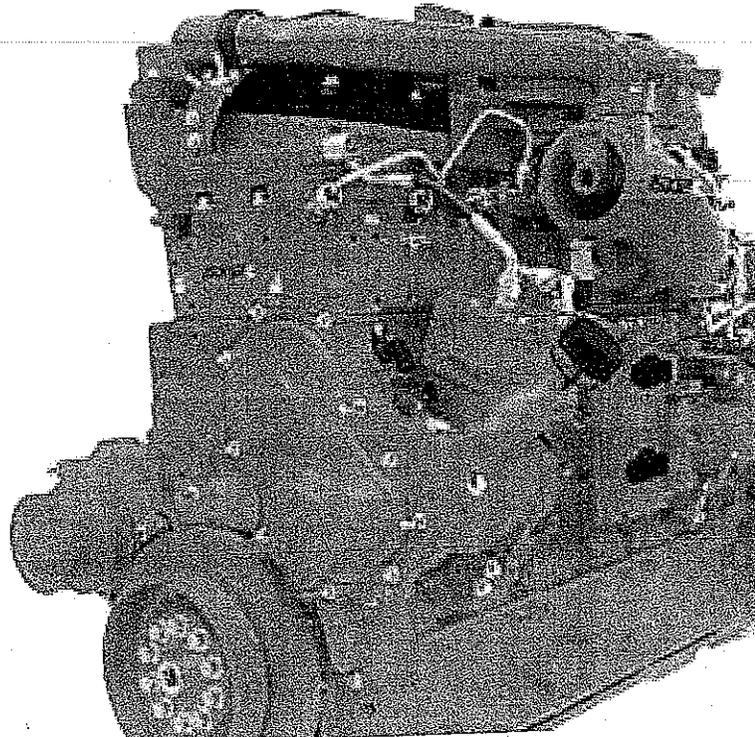
The Cummins Aftertreatment System has been proven for years and thoroughly tested under the most extreme conditions. This proven system consists of a Diesel Particulate Filter (DPF), Selective Catalytic Reduction (SCR) and a dosing system for the Diesel Exhaust Fluid (DEF). Designing and building the package in-house allows Cummins to calibrate the engine and aftertreatment system for optimum fuel economy and performance and near-zero emissions.



### **Diesel Exhaust Fluid.**

DEF is sprayed at a rate of approximately 3 percent to 4 percent of fuel consumption, and will need to be refilled periodically. Simply check the DEF gauge on your dashboard at each refueling. DEF is readily available at all Cummins distributors, through Cummins Filtration's distribution network and at major service stations and truck stops.

For more information, see the fuel and DEF usage calculator at [cumminsengines.com](http://cumminsengines.com).



## ISX12 Maintenance Intervals

Maintenance Item	Miles/Kilometers	Hours	Months
Coolant Filter*	50,000 MI 80,000 KM	1,500	12
Valve Adjustment	250,000 MI 400,000 KM	6,000	24
Coalescing Filter	150,000 MI 240,000 KM	4,000	
DEF Filter	300,000 MI 480,000 KM	6,750	
Hydrocarbon Doser Injector Cleaning	150,000 MI 240,000 KM	4,000	
Particulate Filter Cleaning	300,000 MI 480,000 KM	6,750	

\*With appropriate filter

## Oil Drain Intervals\*

### LINEHAUL TRUCKS

Duty Cycles	Miles/Kilometers	Hours	Months
Severe < 6 mpg	15,000 MI 24,000 KM	400	6
Normal = 6-7 mpg	25,000 MI 40,000 KM	400	6
Light > 7 mpg	35,000 MI 56,000 KM	400	6

### VOCATIONAL TRUCKS\*\*

	Miles/Kilometers	Hours	Months
	15,000 MI 24,000 KM	400	6

## Fuel Filter Change Intervals

### LINEHAUL TRUCKS

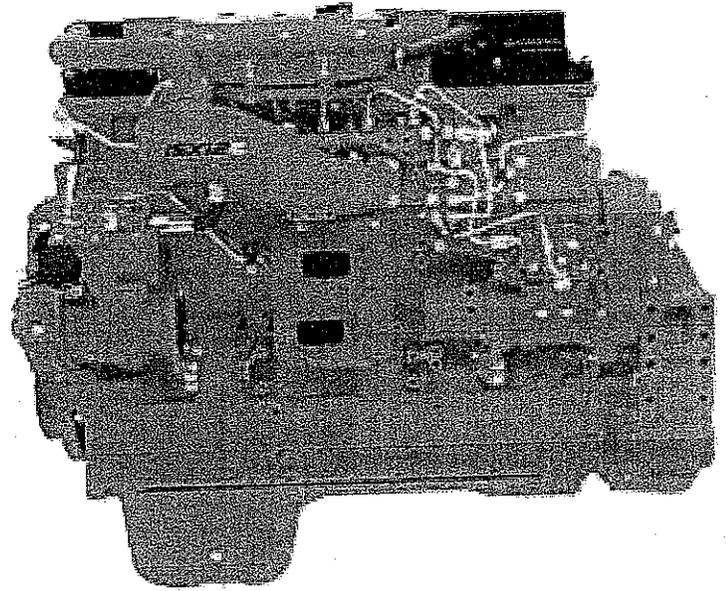
Duty Cycles	Miles/Kilometers	Hours	Months
Severe < 6 mpg	30,000 MI 48,000 KM	1,000	6
Normal = 6-7 mpg	30,000 MI 48,000 KM	1,000	6
Light > 7 mpg	35,000 MI 56,000 KM	1,000	6

### VOCATIONAL TRUCKS\*\*

	Miles/Kilometers	Hours	Months
	30,000 MI 48,000 KM	1,000	6

\*Using CJ-4 oil. When using Valvoline™ Premium Blue, add 5,000 miles (8,000 km) to normal-duty and light-duty cycle intervals.

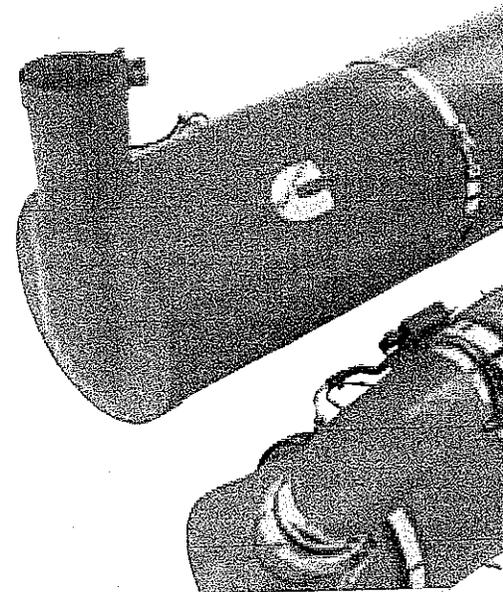
\*\*Includes refuse, mixer, dump and delivery trucks



## ISX12 Specifications

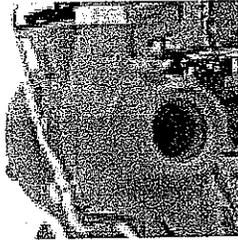
Advertised Horsepower	310-425 HP	231-317 KW
Peak Torque	1150-1650 LB-FT	1559-2237 N•M
Governed Speed	2100 RPM	
Clutch Engagement Torque	800 LB-FT	1085 N•M
Number of Cylinders	6	
System Weight	2,880 LB	1,306 KG
Engine (Dry)	2,640 LB	1,197 KG
Aftertreatment System*	240 LB	109 KG

\*Increase over standard muffler; does not include chassis OEM-supplied components



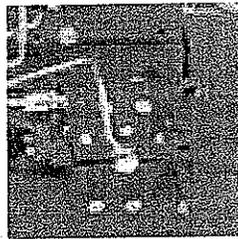
# Designed Better To Work Better

Cummins designs, develops and supports every component from the air handling to the exhaust aftertreatment to work as a totally integrated system – so we can optimize every function better than other engine manufacturers.



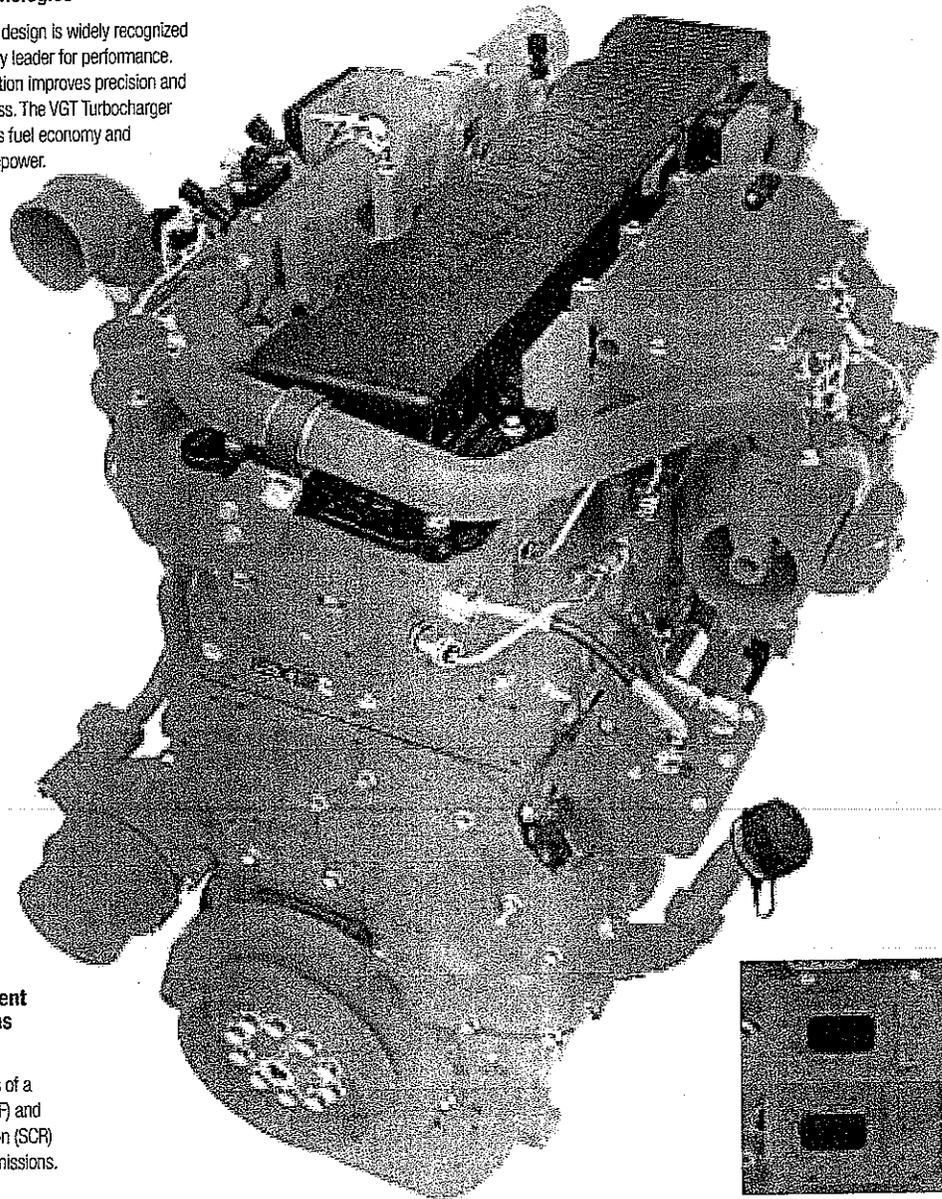
## VGT™ Turbocharger From Cummins Turbo Technologies

The patented design is widely recognized as the industry leader for performance. Electric actuation improves precision and responsiveness. The VGT Turbocharger also increases fuel economy and braking horsepower.



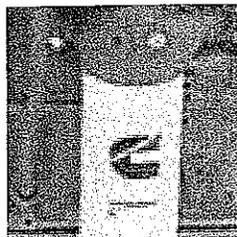
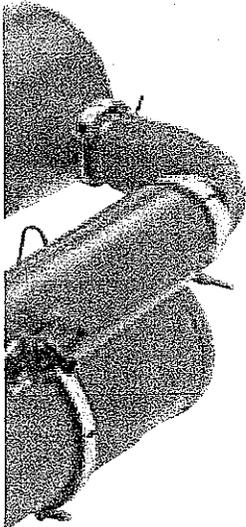
## XPI Fuel System From Cummins Fuel Systems

Delivers superior performance regardless of engine rpm. Multiple injection events per cycle improve fuel efficiency and enable smoother, quieter operation.



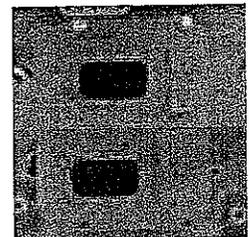
## Cummins Aftertreatment System From Cummins Emission Solutions

Proprietary system consists of a Diesel Particulate Filter (DPF) and Selective Catalytic Reduction (SCR) technology for near-zero emissions.



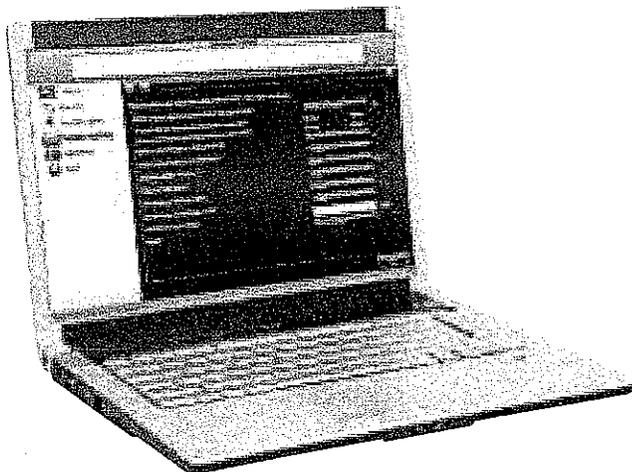
## Fleetguard® Fuel Filters, Lube Filters And DEF From Cummins Filtration

Fleetguard filters protect against corrosion and contaminants that can cause performance issues. High-quality DEF is widely available at authorized Cummins and Fleetguard locations, as well as in bulk delivery.



## Single High-Capacity Electronic Control Module (ECM)

A single ECM manages the engine and aftertreatment system for optimum performance and fuel efficiency.



### Better Spec'ing For Better Results.

Spec'ing your ISX12-powered vehicle is simple, with a user-friendly gearing calculator and a complete menu of programmable engine parameters that are easily customized using our online PowerSpec tool ([powerspec.cummins.com](http://powerspec.cummins.com)). PowerSpec helps you identify the correct axle ratio, with gearing recommendations and specifications for the equipment and duty cycles you run.

In addition to gearing recommendations, PowerSpec allows authorized users to customize the operating parameters on individual vehicles – or easily cascade a “hot spec” through an entire fleet. It also reads fault codes and can be programmed to collect trip information for multiple drivers on every truck.

### ISX12 Ratings

Engine Model	Advertised HP (kW)	Peak Torque LB-FT (N•M) @ RPM
ISX12 425	425 (317)	1650 (2237) @ 1100
ISX12 400	400 (298)	1650 (2237) @ 1100
ISX12 370	370 (276)	1450 (1966) @ 1100
ISX12 370	370 (276)	1350 (1830) @ 1100
ISX12 350	350 (261)	1350 (1830) @ 1100
ISX12 330	330 (246)	1350 (1830) @ 1100
ISX12 330	330 (246)	1250 (1695) @ 1100
ISX12 310	310 (231)	1150 (1559) @ 1100

### SmartTorque Ratings

ISX12 425 ST	425 (317)	1450/1650 (1966/2237) @ 1100
ISX12 400 ST	400 (298)	1450/1650 (1966/2237) @ 1100
ISX12 350 ST	350 (261)	1350/1450 (1830/1966) @ 1100
ISX12 330 ST	330 (246)	1250/1350 (1695/1830) @ 1100

### Vocational Ratings

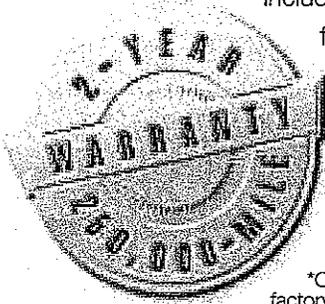
ISX12 425V	425 (317)	1650 (2237) @ 1100
ISX12 425V	425 (317)	1550 (2102) @ 1100
ISX12 400V	400 (298)	1650 (2237) @ 1100
ISX12 385V	385 (287)	1450 (1966) @ 1100
ISX12 385V	385 (287)	1350 (1830) @ 1100
ISX12 350V	350 (261)	1450 (1966) @ 1100
ISX12 350V	350 (261)	1350 (1830) @ 1100
ISX12 320V	320 (239)	1150 (1559) @ 1100

### Refuse Ratings

ISX12 385R	385 (287)	1450 (1966) @ 1100
ISX12 385R	385 (287)	1350 (1830) @ 1100
ISX12 350R	350 (261)	1450 (1966) @ 1100
ISX12 350R	350 (261)	1350 (1830) @ 1100
ISX12 330R	330 (246)	1250 (1695) @ 1100
ISX12 320R	320 (239)	1150 (1559) @ 1100

### Better Warranty Coverage.

Base engine warranty coverage\* for Cummins ISX12 includes parts and labor on warrantable failures for both the engine and aftertreatment system – all with no deductible. Cummins base warranty coverage is good for 2 years/250,000 miles (402,336 km).



\*Covers defects in Cummins materials or factory workmanship

### Every Confidence.

Peace of mind comes from knowing you've bought a quality product, and that the manufacturer will stand behind it for years to come. Cummins offers a wide variety of protection plans for ISX12 engines, tailored to meet the needs of specific applications and trade cycles. It's insurance that allows you to make financial plans with complete confidence, with options for up to 7 years or 500,000 miles (804,672 km) on all registered parts and labor. Cummins extended coverage plans cover internal components and major engine systems including the turbocharger, water pump and fuel injectors\* and, new for 2013, the air compressor, fuel pump and select engine sensors. For additional details, contact your local Cummins distributor or dealer.

\*Does not include hydrocarbon closer injector

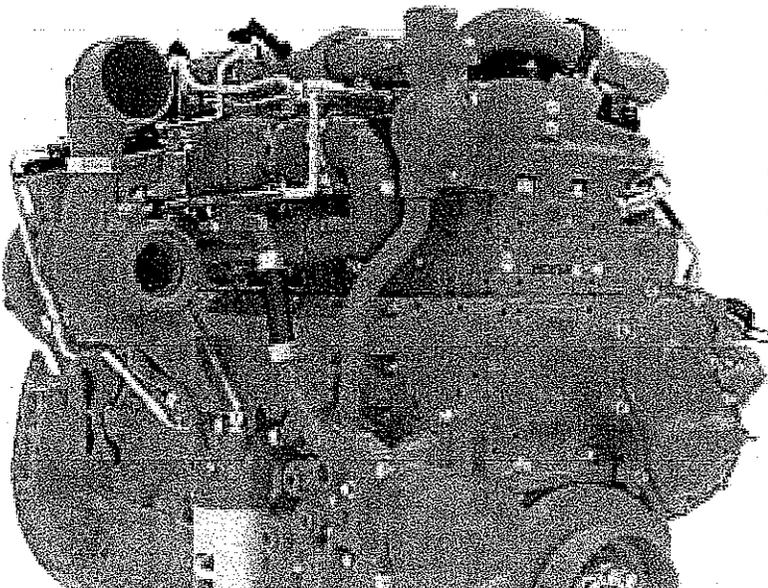


### Better Customer Care.

Cummins-powered vehicles are backed by the largest and most capable parts and service network in North America, with over 3,500 locations. Our authorized service technicians are fully trained on all of our engines, and have the necessary equipment and Genuine Cummins Parts to promptly handle any type of service issue. Call Cummins Care at 1-800-DIESELS™ (1-800-343-7357), and you'll get 24/7/365 assistance from a Cummins Care representative. If you need service, your Cummins Care representative will locate the nearest available and authorized facility.

### Better Answers.

From better fuel economy to stronger performance to enhanced reliability, the ISX12 delivers better where it counts. To learn more about the ISX12, visit [cumminsengines.com](http://cumminsengines.com), phone 1-800-DIESELS (1-800-343-7357) or contact your local Cummins distributor or dealer.





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Columbus, IN 47202-3005  
U.S.A.

Phone: 1-800-DIESELS™ (1-800-343-7357)  
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Internet: cumminsenines.com

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YouTube.com/CumminsEngines

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**2013 Certified ISX  
On Highway Truck  
ISX12 & ISX15  
Diesel**

**Base Warranty**

**2 Years / 250,000 miles**

**Travel/Towing  
Covered in  
Base Warranty**

- SCR Assembly
- Aftertreatment Injector
- Decomposition Reactor
- DPF Assembly
- Sensors
- Wiring Harness
- Vibration Damper
- Fan Hub Assembly & Belt Tensioner
- Thermostat
- Fuel Injectors
- Fuel Pump
- Air Compressor
- Select Engine Sensors
- Turbocharger
- Water Pump

- EGR Cooler, EGR Valve, EGR Mixer
- Cylinder Head Assembly
- Rocker Lever Assembly
- ECM
- Piston Rings & Liners
- Lube Oil Cooler Assembly
- Cylinder Block Assembly
- Crankshaft Assemblies
- Front Gear Cover
- Oil Pan
- Connecting Rod Assembly
- Lube Pump Assembly
- Cam & Bushings

**Protection Plan 1**

**Options available up to  
5yr/500,000 miles**

**Protection Plan 2**

**Options available up to  
5yr/500,000 miles**

<p>Break Housing, Bushings, Rocker Leavers, Roller Pin, Roller, Crosshead Pin, Crosshead including Mounting hardware and gaskets</p>			
<p>Engine Cylinder Block Casting  Engine Main Bearing Bolts  Engine Cylinder Head Casting  Engine Cylinder Head Capscrews  Engine Crankshaft Forging  Cam Follower Housing  Cam Follower Assemblies  Engine Connecting Rods &amp; Caps  Engine Connecting Rod Bolts  Intake Manifold Casting  Rocker Lever Housing  Gear Train Gears</p>			

**Extended Coverage Aftertreatment**

**Covered Components**

Nox & NH3 sensor probe  
DPR temp sensor probe  
AT temp sensor connector  
Deposition tube  
DEF dosing valve  
AT fuel pressure sensor body  
AT wiring pigtail  
AT differential pressure sensor body  
Catalytic converter particulate filter  
SCR/DPF temp sensor interface module

AT fuel return line  
Nox & NH3 sensor module  
SCR temp sensor  
AT DEF dosing unit  
AT SCR catalyst  
AT differential pressure sensor body  
AT fuel pressure sensor o-ring  
Ammonia sensor

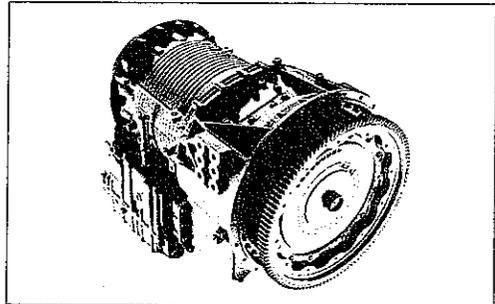
**Options available up to  
5yr/500,000 miles**

**Major Component**

**Options available up to  
7yr/700.000 miles**



## 4430/4440/4500/4600 Series



International Series 4430/4440/4500/4600

### RATINGS

Model <sup>(1)</sup>	Input Torque Gross N•m (lb-ft)	Input Power Gross <sup>(2)</sup> kW (hp)	Turbine Torque Net <sup>(3)</sup> N•m (lb-ft)	GCW/GVV kg (lbs)		
4430 General	1560 (1150)	283 (380)	3322 (2450)	n/a		
Highway, Fire Truck, Emergency, Airport Rescue and Fire-Fighting Vehicle, Heavy Equipment Transport	1560 (1150)	283 (380)	3525 (2600)	n/a		
Refuse Vehicles	1560 (1150)	283 (380)	3322 (2450)	n/a		
Ag Spreader, Sprayer, Blower, Feedlot Truck	1560 (1150)	283 (380)	3525 (2600)	n/a		
4430 ORS Articulated Dump, Rigid Dump	1600 (1180)	283 (380)	3322 (2450)	68,500 (151,017)		
Off-Road	CONTACT YOUR ALLISON REPRESENTATIVE FOR DETAILS					
4440 General	1776 (1310)	317 (425)	3322 (2450)	n/a		
Highway, Fire Truck, Emergency, Airport Rescue and Fire-Fighting Vehicle, Heavy Equipment Transport	1776 (1310)	317 (425)	3525 (2600)	n/a		
Refuse Vehicles	1776 (1310)	317 (425)	3322 (2450)	n/a		
Ag Spreader, Sprayer, Blower, Feedlot Truck	1776 (1310)	317 (425)	3525 (2600)	n/a		
4500 General <sup>(4)</sup>	1 <sup>st</sup> GEAR 2237 (1650)	2 <sup>nd</sup> GEAR 2400 (1770)	GEARS 3-6 2508 (1850)	421 (565)	3322 (2450)	n/a
Highway <sup>(4)</sup>	2237 (1650)	2400 (1770)	2508 (1850)	421 (565)	3525 (2600)	n/a
Fire Truck, Emergency, Airport Rescue and Fire-Fighting Vehicle <sup>(4)</sup>	2400 (1770)	2508 (1850)	2508 (1850)	447 (600)	3525 (2600)	n/a
Heavy Equipment Transport <sup>(4)</sup>	2237 (1650)	2508 (1850)	2508 (1850)	447 (600)	3525 (2600)	n/a
Refuse Vehicles	2102 (1550)	2102 (1550)	2102 (1550)	373 (500)	3322 (2450)	n/a
Ag Spreader, Sprayer, Blower, Feedlot Truck <sup>(4)</sup>	2237 (1650)	2400 (1770)	2400 (1770)	421 (565)	3525 (2600)	n/a
4500 ORS Articulated Dump <sup>(4)</sup>	GEARS 1-2 2102 (1550)	GEARS 3-6 2203 (1625)	358 (480)	3322 (2450)	68,500 (151,017)	
Rigid Rear Dump	2102 (1550)		358 (480)	3322 (2450)	68,500 (151,017)	
Off-Road	CONTACT YOUR ALLISON REPRESENTATIVE FOR DETAILS					
4500 OFS Oil Field Series	2237 (1650)		421 (565)	3525 (2600)	n/a	
4500 SP Specialty Vehicles <sup>(4)</sup>	1 <sup>st</sup> GEAR 2400 (1770)	GEARS 2-6 2508 (1850)	447 (600)	3525 (2600)	n/a	
4600 ORS Articulated Dump <sup>(4)</sup>	GEARS 1-2 2102 (1550)	GEARS 3-6 2305 (1700)	358 (480)	3322 (2450)	81,000 (178,574)	

(1). Models including vocational designations (ie: ORS, OFS, SP, MH) are for global markets. All other models within this document are targeted for non North American markets only.  
 (2). Gross Power rating as defined by ISO 1585 or SAE J1995. (3). Turbine Torque limit based on ISCAAN standard deductions. (4). With torque limiting.

### DRIVETRAIN INTERFACES

Acceptable full-load engine governed speed	1700 – 2300 rpm
Acceptable engine idle speed range (with transmission in Drive)	500 – 800 rpm

### MOUNTING

To Engine	SAE No.1
In Chassis	Rear support available (required for some installations)

### TORQUE CONVERTER

Model	Stall Torque Ratio
TC-521	2.42
TC-531	2.34
TC-541	1.90
TC-551	1.79
TC-561	1.58

Type: One stage, three element, polyphase. Includes standard integral damper which is operational in lockup.

### MECHANICAL RATIOS (Gear ratios do not include torque converter multiplication)

Range	Ratio
First	4.70 : 1
Second	2.21 : 1
Third	1.53 : 1
Fourth	1.00 : 1
Fifth	0.76 : 1
Sixth	0.67 : 1
Reverse	-5.55 : 1

# TERMS AND CONDITIONS FOR ALLISON TRANSMISSION COVERAGE

## TRANSMISSION COVERAGE DEFINITIONS AND REQUIREMENTS

### STANDARD LIMITED WARRANTY

All Allison automatic transmissions carry a Standard Limited Warranty based upon Vocational Model Series and vocations\*. Standard Limited Warranty includes 100% parts and labor for the designated coverage period. Mileage limitations for specific Vocational Model Series and/or vocations may apply. Summary of Standard Limited Warranty coverage is shown on the following charts.

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### EXTENDED TRANSMISSION COVERAGE

In addition to Standard Limited Warranty coverage, Allison transmissions are eligible for Extended Transmission Coverage. Extended Transmission Coverage begins at the end of the Standard Limited Warranty coverage period and increases the coverage period to a total of five years. Extended Transmission Coverage is available for purchase through Allison Authorized Distributors and Dealers. Details for Extended Transmission Coverage are shown on the following charts.

**COVERAGE REQUIREMENTS:** Use of Allison Approved TES 295 transmission fluid\*\* and Genuine Allison Filters is required. Failure to use Allison Approved TES 295 transmission fluid and Genuine Allison Filters will result in no coverage for repair beyond Standard Limited Warranty coverage. Transmissions that are not OEM factory filled with Allison Approved TES 295 transmission fluid and Genuine Allison Filters must have Allison Approved TES 295 transmission fluid and Genuine Allison Filters installed at the time of Extended Transmission Coverage purchase. Transmissions that are not OEM factory filled with Allison Approved TES 295 transmission fluid, or transmissions operating with non-TES 295 fluids, must be drained and filled with Allison Approved TES 295 transmission fluid to achieve 100% concentration. One hundred percent concentration is not achieved until the second consecutive fluid change using Allison Approved TES 295 transmission fluid. The second consecutive fluid change must be achieved at the time of Extended Transmission Coverage purchase.

*NOTE: Except as noted, all transmissions with Extended Transmission Coverage have 100% parts and labor coverage with no mileage limitations.*

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### COVERAGE PRICING

Extended Transmission Coverage must be purchased within one year of the delivery of the vehicle. Pricing shown in this brochure is applicable to Extended Transmission Coverage purchased in 2013.

Suggested retail prices are established for each transmission vocational model/vocation combination.

The terms and conditions under which Allison Transmission offers Extended Transmission Coverage are set forth on the back of the Extended Transmission Coverage Agreement Registration, available from any authorized Allison Transmission Distributor or Dealer.

Pricing and/or coverage details shown in the following charts are subject to change without notice. For current prices and coverage information, go to [www.allisontransmission.com](http://www.allisontransmission.com).

\* See Warranty Parchment for exact coverage details.

\*\* For a list of current Allison Approved TES 295 transmission fluids, go to: [www.allisontransmission.com](http://www.allisontransmission.com); click on service, then fluids.

## WHAT IS NOT COVERED

### • DAMAGE DUE TO ACCIDENT, MISUSE, or ALTERATION

Defects and damage caused as the result of any of the following are not covered:

- Flood, collision, fire, theft, freezing, vandalism, riot, explosion, or objects striking the vehicle;
- Misuse of the vehicle;
- Installation into unapproved applications and installations;
- Alterations or modification of the transmission or the vehicle, and
- Damage resulting from improper storage (refer to long-term storage procedure outlined in the applicable Allison Service Manual)
- Anything other than defects in Allison Transmission material or workmanship

**NOTE:** This warranty is void on transmissions used in vehicles currently or previously titled as salvaged, scrapped, junked, or totaled.

- **CHASSIS, BODY, and COMPONENTS** — The chassis and body company (assemblers) and other component and equipment manufacturers are solely responsible for warranties on the chassis, body, component(s), and equipment they provide. Any transmission repair caused by an alteration(s) made to the Allison transmission or the vehicle which allows the transmission to be installed or operated outside of the limits defined in the appropriate Allison Installation Guideline is solely the responsibility of the entity making the alteration(s).
- **DAMAGE CAUSED by LACK of MAINTENANCE or by the USE of TRANSMISSION FLUIDS NOT RECOMMENDED in the OPERATOR'S MANUAL** — Defects and damage caused by any of the following are not covered:
  - Failure to follow the recommendations of the maintenance schedule intervals applicable to the transmission;
  - Failure to use transmission fluids or maintain transmission fluid levels recommended in the Operator's Manual.
- **MAINTENANCE** — Normal maintenance (such as replacement of filters, screens, and transmission fluid) is not covered and is the owner's responsibility.
- **REPAIRS by UNAUTHORIZED DEALERS** — Defects and damage caused by a service outlet that is not an authorized Allison Transmission Distributor or Dealer are not covered.
- **USE of OTHER THAN GENUINE ALLISON TRANSMISSION PARTS** — Defects and damage caused by the use of parts that are not genuine Allison Transmission parts are not covered.
- **EXTRA EXPENSES** — Economic loss and extra expenses are not covered. Examples include but are not limited to: loss of vehicle use; inconvenience; storage; payment for loss of time or pay; vehicle rental expense; lodging; meals; or other travel costs.
- **"DENIED PARTY" OWNERSHIP** — Warranty repair parts and labor costs are not reimbursed to any participating or non-participating OEMs, dealers or distributors who perform warranty work for, or on behalf of, end users identified by the United States as being a "denied party" or who are citizens of sanctioned or embargoed countries as defined by the U.S. Department of Treasury Office of Foreign Assets Control. Furthermore, warranty reimbursements are not guaranteed if the reimbursement would be contrary to any United States export control laws or regulations as defined by the U.S. Department of Commerce, the U.S. Department of State, or the U.S. Department of Treasury.

### OTHER TERMS APPLICABLE TO CONSUMERS AS DEFINED by the MAGNUSON-MOSS WARRANTY ACT

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

Allison Transmission does not authorize any person to create for it any other obligation or liability in connection with these transmissions. **ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE APPLICABLE TO THESE TRANSMISSIONS IS LIMITED IN DURATION TO THE DURATION OF THIS WRITTEN WARRANTY. PERFORMANCE OF REPAIRS AND NEEDED ADJUSTMENTS IS THE EXCLUSIVE REMEDY UNDER THIS WRITTEN WARRANTY OR ANY IMPLIED WARRANTY. ALLISON TRANSMISSION SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES (SUCH AS, BUT NOT LIMITED TO, LOST WAGES OR VEHICLE RENTAL EXPENSES) RESULTING FROM BREACH OF THIS WRITTEN WARRANTY OR ANY IMPLIED WARRANTY.\*\***

\*\* Some states do not allow limitations on how long an implied warranty will last or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

### OTHER TERMS APPLICABLE TO OTHER END-USERS

**THIS WARRANTY IS THE ONLY WARRANTY APPLICABLE TO THE ALLISON TRANSMISSION MODELS LISTED ABOVE AND IS EXPRESSLY IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. ALLISON TRANSMISSION DOES NOT AUTHORIZE ANY PERSON TO CREATE FOR IT ANY OTHER OBLIGATION OR LIABILITY IN CONNECTION WITH SUCH TRANSMISSIONS. ALLISON TRANSMISSION SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM BREACH OF THIS WARRANTY OR ANY IMPLIED WARRANTY.**

### QUESTIONS

If you have any questions regarding this warranty or the performance of warranty obligations, you may contact any Allison Transmission Distributor or Dealer or write to:

Allison Transmission, Inc.  
P.O. Box 894  
Indianapolis, IN 46206-0894  
Attention: Warranty Administration PF-9

Form SE0617EN (201112)