



VILLAGE OF HARRISON HOT SPRINGS NOTICE OF MEETING AND AGENDA

REGULAR COUNCIL MEETING

Date: Monday, October 16, 2017
Time: 7:00 p.m.
Location: Council Chambers, 495 Hot Springs Road
 Harrison Hot Springs, British Columbia

1. CALL TO ORDER	
Meeting called to order by Mayor Facio.	
2. INTRODUCTION OF LATE ITEMS	
3. APPROVAL OF AGENDA	
4. ADOPTION OF COUNCIL MINUTES	
(a) THAT the Minutes of the Regular Council Meeting held on October 2, 2017 be adopted. Item 4(a) Page 1	
5. BUSINESS ARISING FROM THE MINUTES	
6. CONSENT AGENDA	
i. Bylaws	
ii. Agreements	
iii. Committee/ Commission Minutes	
iv. Correspondence	(a) Letter dated September 22, 2017 from Minister Selina Robinson Re: Thank you for your letter Item 6.iv.(a) Page 5
7. DELEGATIONS/PETITIONS	
8. CORRESPONDENCE	
(a) Letter dated September 18, 2017 from the Youth Parliament of British Columbia Alumni Society Item 8(a) Page 7 Re: British Columbia Youth Parliament, 89 th Parliament	
9. BUSINESS ARISING FROM CORRESPONDENCE	
10. REPORTS OF COUNCILLORS, COMMITTEES, COMMITTEE OF THE WHOLE AND COMMISSIONS	
11. REPORTS FROM MAYOR	

12. REPORTS FROM STAFF

(a) Report of Infrastructure Manager – October 4, 2017
Re: Purchase and installation of washroom at Spring Park

Item 12(a)
Page 9

Recommendation:

THAT Council receive this report regarding the installation cost of a washroom at Spring Park for information.

(b) Report of Infrastructure Manager – October 6, 2017
Re: Purchase of Capital Equipment

Item 12(b)
Page 11

Recommendation:

1. THAT Council approve the purchase of the Class 5 Truck with dump box, snow plow, and crane for \$105,728.86 and delivery date of March 16, 2018;
OR
THAT Council approve the purchase of the diesel Class 5 Truck with dump box, snow plow, and crane for \$125,500 and delivery date of early November 2017;
2. THAT Council approve the purchase of the replacement UTV with snow blower attachment for \$36,718;
3. THAT Council approve the purchase of the replacement manure collector for approximately \$15,000;
4. THAT Council approve the purchase of the Steamwand machine for approximately \$19,560; and
5. THAT Council approve an additional \$16,531 from current year surplus to pay for the purchases.

(c) Report of Community Services Manager – October 13, 2017
Re: 2017 Magic of Christmas

Item 12(c)
Page 89

Recommendation:

THAT the Village of Harrison Hot Springs continues to support the Magic of Christmas event through a financial contribution of up to \$1,000 as supported by the 2017 financial plan.

13. BYLAWS

14. QUESTIONS FROM THE PUBLIC (pertaining to agenda items only)

15. ADJOURNMENT

VILLAGE OF HARRISON HOT SPRINGS
MINUTES OF THE REGULAR MEETING OF COUNCIL

DATE: October 3, 2017
TIME: 7:00 p.m.
PLACE: Council Chambers
495 Hot Springs Road
Harrison Hot Springs, BC

IN ATTENDANCE: Mayor Leo Facio
Councillor John Buckley
Councillor Sonja Reyerse
Councillor John Hansen
Councillor Samantha Piper

Chief Administrative Officer, Madeline McDonald
Deputy Chief Administrative Officer/Corporate Officer, Debra Key
Financial Officer, Tracey Jones
Infrastructure Manager, Troy Davis

ABSENT:

Recording Secretary: Jaclyn Bhatti

1. CALL TO ORDER

Mayor Facio called the meeting to order at 7:00 p.m.

Mayor Facio presented Todd Richard with a Certificate of Appreciation for his recent contribution to the BC Fire Relief Fund.

2. INTRODUCTION OF LATE ITEMS

- Report of Infrastructure Manager – September 27, 2017
Re: Beach Lock Block Wall Erosion Project

3. APPROVAL OF AGENDA

Moved by Councillor Piper
Seconded by Councillor Hansen

THAT the agenda be approved as amended.

CARRIED
UNANIMOUSLY

4. ADOPTION OF COUNCIL MINUTES

Moved by Councillor Buckley
Seconded by Councillor Reyerse

THAT the minutes of the Regular Council Meeting held on September 18, 2017 be adopted.

CARRIED
UNANIMOUSLY

5. BUSINESS ARISING FROM THE MINUTES

None

Village of Harrison Hot Springs
Minutes of the Regular Council Meeting
October 3, 2017

6. **CONSENT AGENDA**

- i. Bylaws (a) Open Burning and Outdoor Fire Regulation Bylaw No. 1110, 2017
- ii. Agreements (b) Bylaw Notice Enforcement Amendment Bylaw No. 1111, 2017
- iii. Committee/
Commission
Minutes (c) Fire Department Regulation Amendment Bylaw No. 1112, 2017
- iv. Correspondence **Moved by Councillor Piper**
Seconded by Councillor Buckley

THAT Opening Burning and Outdoor Fire Regulation Bylaw No. 1110, 2017, Bylaw Notice Enforcement Amendment Bylaw No. 1111, 2017 and Fire Department Regulation Amendment Bylaw No. 1112, 2017 be adopted.

**CARRIED
UNANIMOUSLY**

7. **DELEGATIONS**

None

8. **CORRESPONDENCE**

- (a) Letter dated September 25, 2017 from Melissa Weed, Harrison Hot Springs Preschool
Re: Letter requesting support for childcare centre expansion

Moved by Councillor Reverse
Seconded by Councillor Buckley

THAT the correspondence be received.

**CARRIED
UNANIMOUSLY**

9. **BUSINESS ARISING OUT OF CORRESPONDENCE**

- (a) Letter dated September 25, 2017 from Melissa Weed, Harrison Hot Springs Preschool
Re: Letter requesting support for childcare centre expansion

Moved by Councillor Hansen
Seconded by Councillor Buckley

THAT a general letter supporting an expansion of licensed daycare facilities in the Village be sent to the Harrison Hot Springs Preschool.

**CARRIED
UNANIMOUSLY**

10. **REPORTS OF COUNCILLORS, COMMITTEES, COMMITTEE OF THE WHOLE AND COMMISSIONS**

Councillor Hansen

- Attended the Healthy Communities meeting where the opioid crisis and naloxone kits was discussed.

Reported that a new doctor will be starting in Agassiz this week and another will be coming in July 2018.

Councillor Reyerse

- Attended the Fraser Valley Regional Library In Camera and Regular Board Meetings. The 2018 draft budget was presented.
- Attended the Black Forest Restaurant fundraiser for the Harrison Hot Springs Fire Department on September 21, 2017.
- Attended various sessions, forums, receptions and Minister meetings this past week at the UBCM Convention.
- Attended the Public Engagement Opportunity for the Zoning Bylaw Review this afternoon.

Councillor Buckley

- Attended the Black Forest Restaurant fundraiser for the Harrison Hot Springs Fire Department and thanked them for their efforts.
- Attended UBCM convention. It was filled with energy and enthusiasm.

Councillor Piper

- Attended a fundraiser for the Harrison Hot Springs Fire Department at the Black Forest Restaurant.
- Thanked staff for putting on the Zoning Bylaw Review Public Engagement Opportunity and everyone who attended.

11. **REPORTS FROM MAYOR LEO FACIO**

- Attended the Black Forest Restaurant fundraiser for the Harrison Hot Springs Fire Department. There was a great turn out by fire department members.
- Attended the UBCM Convention last week. Met with Ministers regarding an emergency route, RMI funding, and health services for the Village and attended other sessions and forums.
- Reported on and read a student's school project about Harrison Hot Springs.

Village of Harrison Hot Springs
Minutes of the Regular Council Meeting
October 3, 2017

- Reported that the Black Forest Restaurant raised \$4127.00 at their fundraiser for the Harrison Hot Springs Fire Department.

Vick Ghotra and Sunny Manahani of the Black Forest Restaurant presented Fire Chief David Whittaker with a cheque donated to the Harrison Hot Springs Fire Department.

Chief Whittaker thanked the Black Forest Restaurant for their support and inspiration.

Mayor Facio presented Vick Ghotra and Sunny Manahani of the Black Forest Restaurant with a Certificate of Appreciation for their support to the Harrison Hot Springs Fire Department.

12. **REPORTS FROM STAFF**

- (a) Report of Infrastructure Manager – September 27, 2017
Re: Beach Lock Block Wall Erosion Project

Moved by Councillor Buckley
Seconded by Councillor Reyerse

THAT the budget for the beach lock block wall erosion be increased for a total of \$50,000 from Resort Municipality Initiative funds.

**CARRIED
UNANIMOUSLY**

13. **BYLAWS**

None

14. **QUESTIONS FROM THE PUBLIC (pertaining to agenda items only)**

Questions from the public were entertained.

15. **ADJOURNMENT**

Moved by Councillor Buckley
Seconded by Councillor Hansen

THAT the meeting be adjourned at 7:32 p.m.

**CARRIED
UNANIMOUSLY**

Leo Facio
Mayor

Debra Key
Corporate Officer



RECEIVED

OCT 05 2017

BY VILLAGE OF HARRISON HOT SPRINGS

September 22, 2017

Ref: 206346

His Worship Mayor Leo Facio
Village of Harrison Hot Springs
PO Box 160
495 Hot Spring Rd
Harrison Hot Springs BC V0M 1K0

Dear Mayor Facio:

Thank you for your email and attached letter expressing your congratulations on my appointment as Minister of Municipal Affairs and Housing. I apologize for the delay in responding.

I appreciate your taking the time to write and for your thoughtful words. It is an exciting time as there are many opportunities to work with partners to address the issues that are top-of-mind for British Columbians.

Thank you again for writing and for welcoming me to my new position. I look forward to working with you and your Council.

Sincerely,

Selina Robinson
Minister

FILE #	DATE
0400-20	Oct 5/17
<input type="checkbox"/> CAO	<input type="checkbox"/> CO
<input type="checkbox"/> DCAO	<input type="checkbox"/> ADMIN/ FINANCE
<input type="checkbox"/> DIRF	<input type="checkbox"/> B/L ENF
<input type="checkbox"/> MGR REV SVCS	<input type="checkbox"/> MAYOR
<input type="checkbox"/> CEDO	<input type="checkbox"/> COUNCIL
<input type="checkbox"/> OP. MGR	
ITEM	A B C
COUNCIL AGENDA	
DATE Oct 16/17	
INITIAL <i>SB</i>	
(ITEMS: A-REQ, ACTION: B - INFO - WRESP; C - INFO ONLY)	



VILLAGE OF HARRISON HOT SPRINGS

REPORT TO COUNCIL

TO: Mayor and Council DATE: October 4, 2017

FROM: Troy Davis FILE: 0810-20-12
Infrastructure Manager

SUBJECT: Purchase and installation of washroom at Spring Park

ISSUE: To install a permanent washroom near the Spring Park parking lot.

BACKGROUND:

Council directed staff at the September 11, 2017 Council meeting to further identify the feasibility of installing a permanent toilet at Spring Park between the parking lot off of Eagle Street and the tennis courts. Staff have found that installing a permanent toilet in this location would cost approximately \$39,500 if connected directly to the lift station. However, the Chief Utilities Operator has expressed concerns that doing so may create further cavitation issues for the pumps in that lift station. If the toilet was connect to the sewer line, and avoid the possible cavitation issues, the cost would be \$139,600. A breakdown of the costs can be seen below in Table 1.

Table 1 Breakdown of cost to install washroom at Spring Park

	Connecting directly to lift station	Connecting to sewer line
Building costs	\$16,000.00	\$16,000.00
Shipping	\$4,500	\$4,500
Electrical	\$1,600.00	\$1,600.00
Water supply costs	\$5,400.00	\$5,400.00
Sewer excavation costs	\$16,500.00	\$116,600.00
Total	\$46,000.00	\$144,100.00

It should also be noted that it is not possible to fund the installation of this washroom through Resort Municipal Initiative (RMI) as the Resort Development Strategy indicates that the funds are to be used in the beach and lagoon area. At this time the budget does not support this expenditure.

RECOMMENDATION:

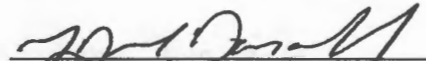
THAT Council receive this report regarding the installation cost of a washroom at Spring Park for information.

Respectfully submitted;

Reviewed by:



Troy Davis
Infrastructure Manager



Madeline McDonald
Chief Administrative Officer



VILLAGE OF HARRISON HOT SPRINGS

REPORT TO COUNCIL

TO: Mayor and Council **DATE:** October 6, 2017

FROM: Troy Davis
Infrastructure Manager **FILE:** 1220-20-12/1220-20-13

SUBJECT: Purchase of Capital Equipment

ISSUE: To purchase a reliable truck for plowing snow with a crane that can be used for lift station repair and maintenance; replace the Kubota UTV with a unit that also has a snow blower; replace the goose manure sweeper; and purchase a machine that uses saturated steam and hot water to kill weeds.

BACKGROUND:

Truck Purchase

It has become necessary to replace the 1993 International dump truck, as it is no longer dependable for snow removal. Council requested that staff research the possibility of purchasing a used unit to reduce the cost. However, when speaking with individuals in the used truck industry staff were informed that it is very difficult to find a Class 6 or 7 single axel dump truck in good condition.

Knowing the budget constraints, staff posted a Request for Quotes (RFQ) for a Class 5 truck with dump box, snow plow, and crane. A truck of this size is less expensive, more versatile and is better suited for year-round landscaping and maintenance work. As well, the smaller size will allow it to be more maneuverable while plowing snow.

The addition of a crane is being considered because currently staff use the backhoe to pull pumps out of the lift stations. Using the backhoe is not ideal, as it is quite challenging to pull the pump at the correct angle with the backhoe. Hiring a crane is expensive, and not convenient when a pump failure occurs. The proposed crane will have a winch that will be able to safely and securely pull the pumps without causing jams or other damage.

The Request for Quotes (RFQ) which closed on October 10, 2017, requested that the truck be new; supplied with a new dump box, snow plow, and crane.

There were two valid quotes submitted from two companies, and prices varied from \$105,301 to \$105,724.00 (including tax). Staff scored the two proposals on how well they met the specification and other preferred requirements outlined in

the RFQ. From the bids received staff recommend purchasing a Ford F550 with Henderson dump body and snow plow, and Hiab crane from Falcon Equipment for \$105,301.00.

Delivery should occur within 150 days from date of order.

Please see Appendix 1 – Class 5 Truck Information for more details on the recommended vehicle.

Due to concerns about not having a new plow truck available for the coming winter staff have identified an alternative solution that could be delivered by early November. It is possible to purchase a new 2017 Ford F550 diesel with Hiab crane, Henderson dump body, and Boss snow plow blade for \$125,500.00 including taxes. See Appendix 2 – Alternate Truck Information for details on this vehicle.

Utility Vehicle Replacement

The current utility vehicle, a Kubota 1100 RTV, was purchased in 2009. Staff use it every day, and it is becoming worn out. Staff recommend that it be replaced with a similar unit that also has a snow blower attachment to help with sidewalk snow removal.

Staff posted a Request for Quotation (RFQ) which closed on October 12, 2017. The RFQ requested that the replacement UTV be new, have an enclosed cab, a powered cargo box, a snow blade, and snow blower.

There were four valid quotes submitted from four companies, and prices varied from \$40,268 to \$37,671 (including tax). From the bids received staff recommend purchasing a 2017 RTV 1100C from Avenue Machinery for \$37,671 including taxes and an extended warranty. The unit would include the UTV and a snow blower, as the Public Works supervisor does not feel the blade is necessary.

Please see Appendix 3 – UTV Information for more details on the recommended vehicle. Delivery should occur within four weeks from date of order.

Manure Sweeper

The current goose manure sweeper was purchased approximately 15 years ago and is becoming worn out. It is used for two to three hours every day during the spring, summer, and fall. Staff have researched a replacement for this unit and have found that Metal Form from Griffin Georgia builds a suitable unit. The other similar units that were found would not be suitable for our application. An image of the unit can be seen in Appendix 4 – Manure Sweeper Information.

The recommended sweeper is the Tow and Collect 1500 Pro. It is wider than the current unit (i.e. 60" versus 42"), and can clear approximately 1/2 an acre per hour.

The cost of the manure collector including freight, taxes, brokerage fees, and exchange will be approximately \$15,000.

Steamwand Weeder

A company called Weedtechnics demonstrated a device to staff that kills vegetation using saturated steam and boiling water. Staff were informed that most broad leaf weeds are killed instantly, while vegetation such as grass can take a few days or treatments to appear dead. It was suggested that due to our climate that four to five treatments would be required per year along sidewalks and other areas.

About the technology

Staff research has shown that the vast majority of chemical free treatment options have been developed in Australia. Some of the reasons that they have developed the technology are:

1. Reduce employee exposure to toxic chemicals;
2. Project a positive green image to the visitors and the public;
3. Public are not restricted access to areas that have been recently treated;
4. Far less concern about the wrong plants being killed by wind drift;
5. No water or soil contamination;
6. No contamination to the habitats of sensitive species such as frogs, bees, etc.; and
7. Prevent herbicide resistance of plants.

The effects of a treatment can be seen in the photos in Appendix 5 – Steamwand Before and After Photos Appendix 5 – Steamwand . It should be noted that treating weeds with saturated steam and hot water is slower than treating with herbicides. However, the day of treatment was cool with intermittent showers and a light breeze, and little public pedestrian traffic. Using herbicides in similar conditions would not have been financially prudent (i.e. a waste of chemicals and staff time), and the breeze would have likely caused off target damage. Therefore treatment can occur when there are few public using the areas being treated, with similar results, all while demonstrating the Village's commitment to being environmentally responsible.

The pressure washer produces ~1000psi, and is powered by a small gasoline motor, while the water is heated by a diesel burner. The unit comes with 30m of hose and two types of applicators – a hood that is 300mm wide (see Figure 1) and a 50mm wide open head (see Figure 2)

Figure 1 - 300mm Wide Closed Hood



Figure 2 - 50mm Wide Open Head on an Applicator Gun



Other applicators that are available include a set of spikes and pressure washer spray tips. The spikes allow the saturated steam and hot water to be applied to the roots of plants that have deeper root structures such as dandelions. There is some hope that it may be effective treating Japanese Knotweed, though that has not been proven. The spray tips provide the ability to remove gum, grease, and other stains from sidewalks; to sanitize garbage cans, benches, and other outdoor furniture; and remove grease and oil from public works equipment such as the backhoe. Using this equipment as a pressure washer is preferable in as the lower pressure (i.e. 1000psi vs 3000+psi) coupled with hot water does not erode the surfaces of the item being washed while still removing it effectively.

Other products

Staff have compared the costs for other comparable units. The only unit that is similar a vegetable based foam in addition to the saturated steam and hot water. The base cost of that unit is \$60,000. Staff have not had a demonstration at the time of writing this report, but from online accounts it is quite effective. Staff are also aware that the municipality of Courtney uses one of these units.

Models

There are two models of the Steamwand machines that staff have priced. The Steamwand 700 is marketed as being ideal for schools and nurseries, while the Steamwand 800 is promoted as being for municipal and small organic farm applications. Staff feel that with the large area to be treated along the Esplanade (i.e. sidewalk, rock wall, and patio brick areas) that it would be worthwhile to purchase the machine meant for municipal use. A cost comparison of the two units can be found in Table 4.

FINANCE FOR ALL PURCHASES

The Financial Officer has reviewed these costs and has determined that the purchase can be funded as follows:

Costs

Table 1 Truck with March Delivery Date Costs

Truck Chassis	\$43,910.66
Dump Body	\$17,654.91
Snow Plow	\$12,496.80
Crane	\$31,238.49
Total	\$105,728.86

*Prices include tax

Table 2 Diesel Truck with November Delivery Date Costs

Truck Chassis	\$64,109.80
Dump Body	\$17,654.91
Snow Plow	\$12,496.80
Crane	\$31,238.49
Total	\$125,500.00

*Prices are approximate for chassis and plow, and include tax

Table 3 Cost of UTV with Snow Plow and Snow Blower

UTV	\$24,247
Snow Blower	\$13,424
Total	\$37,671

*Including tax

Originally the budget for this item was \$25,000. However, with the addition of the snow blower implement the budget has been exceeded.

Table 4 Comparison of Steamwand Machine Costs

	Steamwand 700	Steamwand 800
Machine	\$12,990	\$15,490
Injection Spike Kit	\$1,290	\$1,290
Training Cost (mandatory)	\$1,500	\$1,500
Sub total	\$15,780	\$18,280
Tax	\$1,105	\$1,280
Total	\$16,885	\$19,560

Table 5 Cost of New Equipment Purchases from Existing Capital Budget

Truck (March delivery date) with box, plow (crane excluded)**	\$74,000
Replacement for UTV with snow blower	\$37,671
Replacement for Goose Manure Sweeper (approximate)	\$15,000
Steamwand Machine	\$19,560
Total	\$146,231

with March Delivery Date for Truck

Table 6 Cost of New Equipment Purchases from Existing Capital Budget with November Delivery Date for Truck

Truck (November delivery date) with box, plow (crane excluded)**	\$94,300
Replacement for UTV with snow blower	\$37,671
Replacement for Goose Manure Sweeper (approximate)	\$15,000
Steamwand Machine	\$19,560
Total	\$166,531

**As the purpose of the crane is to allow staff to maintain and repair lift station pumps, this equipment will be funded from the Waste Water Capital Fund for Sewer Equipment.

Funding

Funding for these purchases is available through the following sources.

Table 7 Capital Funds Available for Public Works Equipment Purchases

Previously approved borrowing for equipment purchases	\$110,000
Prior Year Surplus	\$40,000
Current Year Surplus (to be approved)	\$16,531
Total	\$166,531

RECOMMENDATIONS:

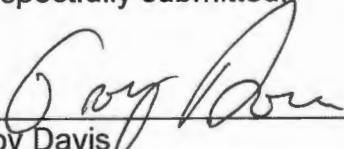
1. THAT Council approve the purchase of the Class 5 Truck with dump box, snow plow, and crane for \$105,728.86 and delivery date of March 16, 2018;

OR

THAT Council approve the purchase of the diesel Class 5 Truck with dump box, snow plow, and crane for \$125,500 and delivery date of early November 2017;

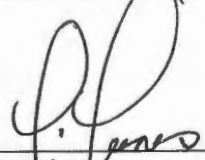
2. THAT Council approve the purchase of the replacement UTV with snow blower attachment for \$36,718;
3. THAT Council approve the purchase of the replacement manure collector for approximately \$15,000;
4. THAT Council approve the purchase of the Steamwand machine for approximately \$19,560; and
5. THAT Council approve an additional \$16,531 from current year surplus to pay for the purchases.

Respectfully submitted;



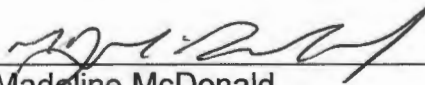
Troy Davis
Infrastructure Manager

REVIEWED BY: (if applicable)



Tracey Jones
Financial Officer

REVIEWED BY:



Madeline McDonald
Chief Administrative Officer

Appendices

Appendix 1 – Class 5 Truck Information



STRONGER MEANS LONGER

THE HIAB TWO-YEAR WARRANTY



HIAB TWO-YEAR WARRANTY FLYER

THE STANDARD WARRANTY

HIAB loader cranes are built like no other. For that reason, they come with a promise like no other.

Introducing the HIAB two-year warranty.



TWO YEARS ON ALL PRODUCTS AND COMPONENTS

HIAB loader cranes are built to perform, with strong materials and a quality of workmanship no other supplier can match. And because we build them with care, we stand behind them with confidence.

Today all HIAB cranes come with a two-year standard warranty that applies to all components. Not only does it cover the parts you expect, it also covers the following wear parts:

- Painting
- Seals (both internal and external)
- Flexible hoses



THAT SETS A NEW STANDARD

FIVE YEARS FOR STEEL

In fact, our standard warranty goes much further than the first two years. For all HIAB cranes with lift counts, the warranty is five years for all steel components.

Even on cranes without lift counts, * our warranty for structural steel components is three years – regardless of hook or tool mode. And best of all, you can extend the standard warranty for any HIAB crane by signing a service agreement.

**Applies to CL/CLX cranes, only available in certain countries.*

A ONE-OF-A-KIND PROMISE

HIAB customers are the first to enjoy such a comprehensive standard warranty. But that should be no surprise. No other manufacturer has ever gone so far – because no other crane goes as far as a HIAB.



BUILT TO PERFORM

Hiab is the world's leading provider of on-road load handling equipment. Customer satisfaction is the first priority for us. Hiab's product range includes HIAB loader cranes, JONSERED recycling and forestry cranes, LOGLIFT forestry cranes, MOFFETT truck mounted forklifts and MULTILIFT demountables, as well as DEL, WALTCO and ZEPRO tail lifts.

hiab.com

Hiab is part of Cargotec.
cargotec.com



hiab.com

HIAB XS 044 Range 3.7-4.0 tm



Product brochure

www.hiab.com





Provides excellent outreach



The HIAB XS 044 is a complete crane experience

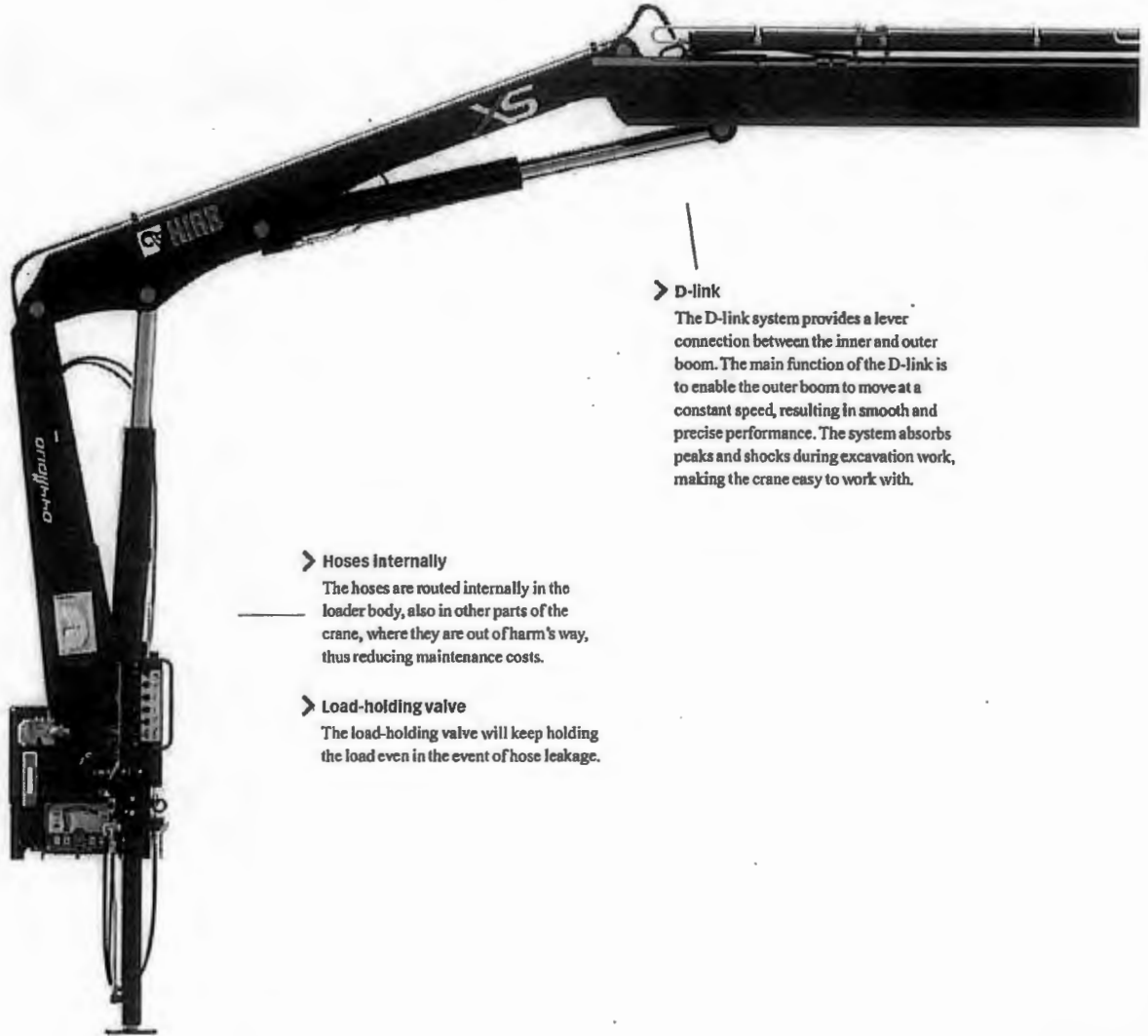
Hiab has always been associated with high quality and continuous improvements. Especially designed for long outreach, the HIAB XS 044 goes far beyond your expectations. If you choose to fit your crane with D-link and the maximum of four boom extensions you are provided 330 kg loading capacity at an outreach over nine metres – with performance and smoothness as distinguishing features.

Standard crane base width of the HIAB XS 044 is 1900 mm. The crane can be operated from the side of the truck or by remote control. It can be delivered with the CLX, Duo or HiDuo control system. The HIAB XS 044 is a light, compact crane ensuring high reliability and flexibility for everyday use.

HIAB / 044 Range 3.7-4.0 tm

A perfect working companion

The HIAB XS 044 has a solid casted base which provides an outstanding stress distribution, enhanced strength and prolonged life. All sensitive parts, like pressure gauges and hydraulics, are strategically placed to facilitate service and maximize uptime. Customizing the crane with respect to type of controlling, links, and number of extensions makes the HIAB XS 044 a perfect match to your business.



> D-link

The D-link system provides a lever connection between the inner and outer boom. The main function of the D-link is to enable the outer boom to move at a constant speed, resulting in smooth and precise performance. The system absorbs peaks and shocks during excavation work, making the crane easy to work with.

> Hoses Internally

The hoses are routed internally in the loader body, also in other parts of the crane, where they are out of harm's way, thus reducing maintenance costs.

> Load-holding valve

The load-holding valve will keep holding the load even in the event of hose leakage.

➤ **Hexagonal boom profile**

The hexagonal profile used on Hiab booms is a ground-breaking design introduced by Hiab many years ago. It is now standard throughout the market for loader cranes. Even the smallest Hiab crane benefits from this design.



➤ **JIC couplings**

JIC couplings are standard on most Hiab cranes. They ensure easy and secure coupling, but are still very simple to disconnect for service.

➤ **Large slide pads**

The hexagonal profile enables the use of larger slide pads. This makes the extensions move more smoothly and reduces mechanical wear on the boom.

➤ **Attachable tools**

A wide range of attachable tools are available for your Hiab crane. These make sure you can carry out a lot of different tasks.

HIAB XS 044 Range 3.7-4.0 tm

➤ CLX control system

The CLX control system gives you an excellent and versatile crane, providing all the functionality you need to perform a wide range of general cargo handling tasks. CLX cranes are controlled manually via side controls. The hydraulic system of this CLX crane feature HIAB Valve 30.

➤ Duo control system

The Duo control system provides your crane with a little bit more of Hiab's world class features. Duo has manual operator controls, and the SPACE 3000 intelligence system. The main hydraulic valve of this crane is the HIAB Valve 30 – a reliable valve, perfect for smaller cranes mounted on lighter commercial vehicles. The valve ensures an even oil flow which generate very precise movements.

➤ HiDuo control system

The HiDuo control system is based upon the renowned HIAB Valve 80. HiDuo comes with the SPACE 4000 intelligence system which intelligently monitors and controls the electronic functions of your crane. These functions are focused on assisting the operator in two aspects, safety and productivity. The HiDuo control system support remote controlling with the XSDrive remote control.

➤ SPACE 3000

The SPACE 3000 intelligence system is a low-cost alternative for managing the most fundamental safety and productivity functions. The SPACE 3000 is a part of the Duo control system.

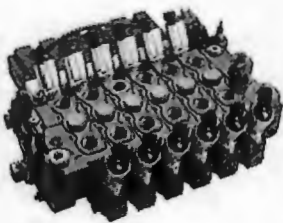
➤ SPACE 4000

The SPACE 4000 system intelligently monitors and controls the electronic functions of your crane.

Safety is managed by an Over Load Protection (OLP) function and productivity is increased in terms of the extra efficiency provided by remote controlling. Furthermore, the system handles functions primarily used by service personnel such as fault code indication and load cycle data.

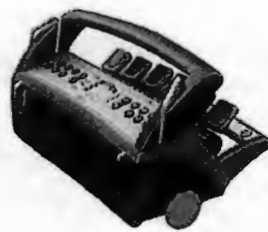
➤ Link systems

A mechanical link is quite simply a piece of steel. For those who simply want a solid, all-round crane with an outstanding reach and without compromising an inch on quality, cranes without links, the B-link system, remain an excellent investment. An outer boom link, known as D-link system, causes the outer boom to move at constant speed and adds to the capacity of this particular crane range.



^ Valve 80

The HIAB Valve 80 is a top-of-the-line open-centre valve based on well-proven technique which gives superb reliability. The valve handles large oil flows and provides great precision and ease of operation.



^ XSDrive

The HIAB XSDrive can handle up to 24 proportional functions, thereby controlling all movements with the same precision.







HIAB

Hiab is part of Cargotec Corporation



FF-0435-EN-WW_040324

Henderson MARK III

Utility-sized dump body for unsurpassed versatility.

The Henderson MARK III is living proof that you don't need to sacrifice rugged, heavy-duty service just because you don't need a behemoth dump truck. It is designed for the customer who needs a utility-sized body.

It has the same rugged features as its bigger relatives. Features like: unibody design with a one-piece floor joined by a radius to the sides with a continuous weld, cross-memberless under-structure to prevent washboarding;

exclusive trunnion-mounted telescopic hoist for enormous lifting power, shorter cycle time and reduction of sway; double-walled tailgate and a 9" mounting height for a lower center of gravity and increased stability.

But that is not all. The MARK III is styled to look better longer through outward sloped rails that shed dirt and debris. All welds are continuous seams to add rigidity and to prevent water infiltration. And much more from...



- Head sheet has two built-in windows to provide a better view for backing up or checking on a load while protecting the cab widow.
- Cab shield is an integral part of the head sheet and has streamlined end plates to eliminate sharp edges.
- The nitrided, trunnion-mounted telescopic hoist provides superior lift capacity and faster cycle time
- Quick-release handles on the sides give you instant side release from a single point-of-use. Latch is positive cam-action **OPTIONAL** on the tailgate.
- Includes electric gear pump with reservoir, hydraulic plumbing, electric push-button hoist control and mounting hardware.
- Five-inch structural I-beam longitudinals provide support instead of the traditional cross-members known to cause wash boarding problems.
- One-piece, double-walled fixed side panels with boxed top rail strengthen the body to prevent it from twisting. Panels stay better looking longer. Rail edges have a soft contour to resist paint chipping.
- All top rails and rub rails slope outward to shed debris.
- Unibody design features a 3/16", one-piece, seamless floor with formed 2" floor-to-side radius. The low 9" mounting height increases stability and accessibility.
- Full-depth rear corner posts tied to 5" structural channel rear apron.
- Stop/turn/tail light mounted in reach rear corner post with side clearance light and reflectors.
- Double-walled, double-acting tailgate with full perimeter boxing. Flame-cut latches are mounted to reinforce plates that overlap the rear corner post and apron to prevent spreading of sides.
- Shock resistant stop/turn/tail lights and I.C.C. light cluster are provided with a one-piece sealed wiring harness.
- The rear hinge assembly built tough to resist twisting. 1-1/4" diameter pins connect through 4" hinge bushings.
- Premium hoist control for electric/hydraulic power unit. Shock-resistant case affords long life.

FEATURES & SPECIFICATIONS

MARK III DIMENSIONS AND CAPACITY CHART

LENGTH	WIDTH		HEIGHT			CAPACITY		TYPE CLASS	CLASS (NTEA)	HOIST	
	INSIDE	OUTSIDE	SIDES	TAILGATE	HEAD	SIDES/ENDS (cu. yd.)	W/SIDEBOARDS (cu. yd.)			NTEA RATED CAPACITY Tons @ Critical Angle	CAPACITY Tons @ Lutoff
8'	85"	95"	13"	19"	42"	2.3/3.3	5.9	M-80-3.5-3	20	12.7 @ 39.1°	19.4
8'	85"	95"	18"	24"	42"	3.2/4.2	5.9	M-80-3.5-3	20	12.7 @ 39.1°	19.4
9'	85"	95"	13"	19"	42"	2.5/3.7	6.0	M-80-3.5-3	20	9.5 @ 34.6°	19.1
9'	85"	95"	18"	24"	42"	3.5/4.7	6.5	M-80-3.5-3	20	9.5 @ 34.6°	19.1
10'	85"	95"	13"	19"	42"	2.8/4.2	6.6	M-80-3.5-3	20	7.3 @ 29.8°	18.9
10'	85"	95"	18"	24"	42"	3.9/5.3	7.2	M-80-3.5-3	20	7.3 @ 29.8°	18.9
11'	85"	95"	13"	19"	42"	3.4/4.6	7.3	M-80-3.5-3	20	5.5 @ 33.4°	18.6
11'	85"	95"	18"	24"	42"	4.3/5.8	7.9	M-80-3.5-3	20	5.5 @ 33.4°	18.6

UNIBODY DESIGN

One-piece floor with 2" formed radius to join sides. Full-depth rear corner posts tied to 5" structural channel rear apron. Smooth under structure has 5" structural steel I-beam longitudinals with no cross-members and a low 9" mounting height.

HOIST

Three-stage telescopic, trunnion-mounted hoist with nitrated cylinder tubes. Hydraulic plumbing and electric push button hoist included. Two-year warranty.

MOUNTING

- Low 9" mounting height
- Full sub-frame cradle and rear hinge assembly built in for quick installation
- Includes premium in-cab control, electric gear pump/reservoir, and mounting hardware

FLOOR

- One-piece, 3/16" steel
- 2" formed in floor-to-side radius
- 5" x 10.0 lbs./ft. I-beams longills with no cross-members

SIDES

Double-wall, 12-gauge steel with sloped, formed top rail.

HEADSHEET

12-gauge steel with integral cab shield and two pre-punched windows. (Varying cab shield heights available to optimize fit on different brands of chassis.)

TAILGATE

- One-piece 12-gauge steel.
- Double-wall sheet with full perimeter boxing and sloped top rail.
- Flush-mount, off-set tailgate hinge plates with easy-release pins.
- 1" top and 1-1/4" bottom latch pins.
- Manual over-center tailgate release mechanism with rubber covered handle.

LIGHT PACKAGE

- Stop/turn/tail lights are mounted in rear corner post.
- I.C.C. and rear clearance lights with reflectors are also included.
- All lights are rubber mounted, shock resistant and feature one-piece sealed wiring harness.

BODY PREPARATION

- Entire body is chemically cleaned with a phosphate solution before being primed.
- Primed with high-quality primer.

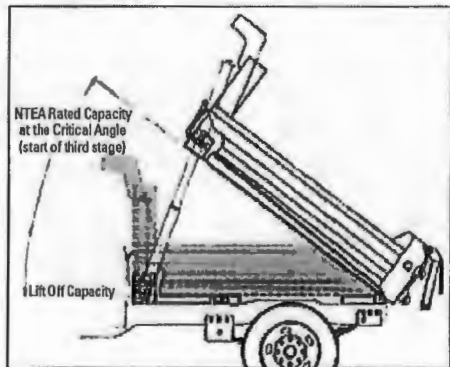
OPTIONS

- Aerodynamically contoured, tapered headsheet has integral cab shield.
- Headsheet without integral cab shield
- 304 Stainless steel body construction
- One-piece, 12-gauge sloping side boards
- Quick-release, fold-down sides features sloped surface to shed debris.
- Quick-release, drop-down tailgate.
- Coal chute.
- Direct mount PTO pump.
- L.E.D. light kit
- 1st Stage Power Down Cylinder



OPTIONAL contoured, tapered headsheet is aerodynamically shaped to complement the new cab designs and increase visibility.

OPTIONAL quick-release, fold-down sides and convenience. The sturdy hinge is positioned beneath the body, out of the way of falling debris. Sloped surfaces on the sides and floor help shed debris during dumping.



Illustrated above are the NTEA Capacity and Lutoff Capacity point of measure for the hoist.



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HP-022 7.5M 03/16

Henderson

SNOWFOE MSP

MID-SIZE REVERSIBLE SNOW PLOW

Heavy-duty muscle for mid-range trucks

Designed to work in close partnership with the new mid-range trucks (or full-size trucks in "low snow" areas, Henderson's MSP carries all of the rugged characteristics of its big brother...the one that's aggressively clearing the roads under the toughest conditions imaginable. The MSP mid-size reversible plow is the perfect mate for the new mid-range trucks that are being put to work on parkways, parking lots, ramps and on roads where the "monsters" are overkill.

The unique rolled moldboard (steel or polymer) moves snow to the side effortlessly for a cleaner surface with less wear on the vehicle. It is virtually self-cleaning to reduce back-up and drifting for improved driver visibility.

What's more, the MSP is priced to fit the mid-range truck too. Competitively. All in all, it's the ideal marriage of two great ideas... the mid-range truck and the mid-range snow plow. And of course, it's what you would expect from...

The Dependable Ones™



The roll-formed moldboard features 10-gauge steel with roll-formed ribs continuous welded for optimum strength and rigidity. An optional 3/8" UHMW polymer moldboard with non-stick surface is also available. It is solid clear-through orange with black powder-coat frame members.



- Eight 3/8" x 3" ribs for extra strength and rigidity.
- Moldboard curvature designed to improve snow moving capabilities while minimizing "drift".
- Supported by the Henderson Hitch, the plow in any position remains level to the road.
- One-piece moldboard is rolled instead of brake formed presenting a smooth, clean surface for better material flow.
- OPTIONAL - Two easily adjustable compression springs have six position settings for variable control of the trip force.
- OPTIONAL - Full-width push tube (14% longer than other makes) gives greater blade stability.
- Five moldboard-to-push frame pivot points more evenly distribute push force throughout the entire plow. (Six pivot points on adjustable cutting edge trip).
- 1-1/4" bushings are welded through ribs to provide greater pivot pin bearing surface and enhanced durability.
- Twin reversing cylinders are located above the push frame for protection against road debris.
- Three-position attack angle adjustment (5°, 10°, 20° approx.) to meet all snow and ice removal conditions.
- Moldboard height measures from the road surface to inside of arc - not top of ribs as with some manufacturers.
- Twin 2-1/2" x 6" nitrified hydraulic cylinders are double-acting for heavy-duty power reversing.
- One-piece 1/2" x 6" cutting edge gives extended wear and is bolted on for easy replacement.
- Trip-spring anchor plates are encased and continuous welded to the push frame providing greater strength.
- All parts are continuous welded which minimizes corrosion points.
- All surfaces are high pressure cleaned and degreased with phosphate solution before powdercoat Highway Orange paint. Push frame assembly and hitch components are powder coat painted black.

FEATURES & SPECIFICATIONS

TWO MAJOR TYPES OF TRIP DESIGNS TO MEET YOUR PLOWING CONDITIONS

MOLDBOARD	POLY		CARBON OR STAINLESS STEEL	
	STANDARD SHIELD (lbs)	INTEGRAL SHIELD (lbs)	STANDARD SHIELD (lbs)	INTEGRAL SHIELD (lbs)
9'	456	549	505	574
10'	488	585	647	615
11'	520	621	689	656
12'	574	688	631	697



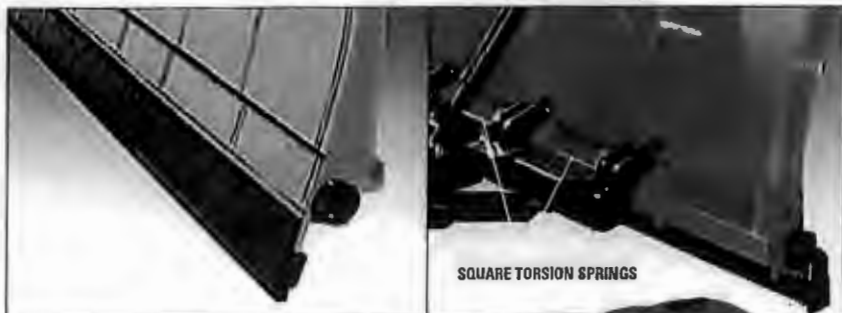
STANDARD NON-ADJUSTABLE SPRING SHOWN

FULL MOLDBOARD TRIP

Available in poly, painted mild steel, or stainless steel.



APPROX. ATTACK ANGLE ADJUSTMENT: 5°, 10°, AND 20°



SQUARE TORSION SPRINGS

ADJUSTABLE CUTTING EDGE TRIP

- One-piece trip edge with five 3/4" adjustable square torsion springs.
- Zero insertion force for easy and safe spring replacement.
- Each spring features individual three-position trip tension adjustment (wrench included).
- Cutting edge trip design allows for smoother trip action and minimizes shock to the truck chassis and driver.



Available in poly, painted mild steel, or stainless steel.



STANDARD SHIELD

INTEGRAL SHIELD
Helps prevent blowover & improves driver visibility

CUTTING PATH

- Cutting path at 35° for a 9' length is 7'4"
- Cutting path at 35° for a 10' length is 8'2"
- Cutting path at 35° for a 11' length is 9'0"
- Cutting path at 35° for a 12' length is 9'10"

MOLDBOARD

- "Level lift" design allows the plow to remain level with road in any position when using Henderson Hitch.
- 10-ga. Grade 50 rolled moldboard with 3/8" x 3" ribs.
- Continuous welded one-piece moldboard.
- Reinforced 3.5" x 3.5" x 1/2" bottom angle.
- 2" x 3" x 1/4" top angle with holes to allow moisture to escape moldboard.
- Two horizontal stiffeners for added rigidity.
- Attack angle is adjustable to approx. 5°, 10° and 20°.
- 1/2" x 6" one-piece cutting edge with AASHO punching is standard.

PUSH FRAME

- Push frame width is 82".
- Semi-circle is 3-1/2" x 3" x 3/8" angle welded to 3" x 3" x 3/8" structural tube.
- Five moldboard-to-push frame pivot points with 1-1/4" bushings pin to two 1/2" mounting ears (four pivot points on adjustable cutting edge trip).

OPTIONS

- Integral shield moldboard
- 3/16" moldboard
- 3/8" WHMV polymer moldboard
- 304 stainless steel moldboard sheet
- Curb bumper (1/2 moon)
- Wraparound curb guard
- Rubber deflector
- Sight markers
- Carbide blades
- Rubber blades
- Electric power unit
- Plow light kit
- Cushion valve
- Various other hitches offered for full-size trucks
- Rectangular wear shoes, carbide shoes, mushroom shoes, 8" and 10" caster wheels, pneumatic wheels, moldboard shoes



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HP-092 2.5M 12/15



Dams Ford Lincoln Sales Ltd.
19330 Langley Bypass, Surrey, British Columbia,
V3S7R2
Office: 604-532-9921

2017 F-550 Chassis, SD Regular Cab
4x2 SD Regular Cab 169" WB DRW XL(F5G)
Price Level: 730 Quote ID: HarrisnF5G

Warranty - Standard Equipment & Specs

Warranty

Basic

Distance 37283 miles Months 36 months

Powertrain

Distance 62139 miles Months 60 months

Corrosion Perforation

Distance Unlimited miles Months 60 months

Roadside Assistance

Distance 62139 miles Months 60 months

Accessories

Distance 37283 miles Months 36 months

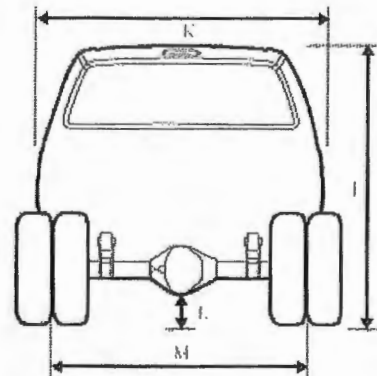
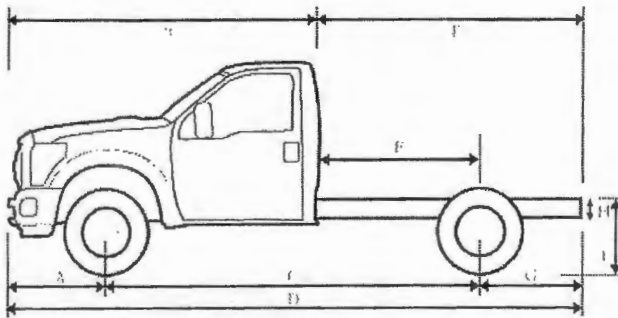
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Prepared for: Troy Davis
By: Chenn Bergen Date: 10/05/2017



Performance

Performance predictions in this report represent an estimate of vehicle performance based on standard operating conditions. Variations in customer equipment, load configuration, ambient conditions, and/or operator driving techniques can cause significant variations in vehicle performance. These values are not representative of results that may be shown in actual dynamometer tests. This report should therefore be used as a guide for comparative vehicle performance.



Dimensions

A	Front of Bumper to Front Axle	38.30 in.
B	Front Bumper to Back of Cab (BBC)	123.70 in.
C	Wheelbase (WB)	169.00 in.
D	Overall Length (OAL)	254.80 in.
E	Back of Cab to Rear Axle (CA)	84.00 in.
F	Back of Cab to End of Frame	131.20 in.
G	Rear Axle to End of Frame (AF)	47.20 in.
H	Frame Section Height	N/A
I	Rear Frame Height Unloaded	34.40 in.
I	Rear Frame Height Loaded	28.60 in.
J	Cab Height	81.70 in.
K	Body Width	80.00 in.
L	Maximum Ground Clearance	N/A
L	Minimum Ground Clearance	8.30 in.
M	Front Tread	74.80 in.
M	Rear Tread	74.00 in.

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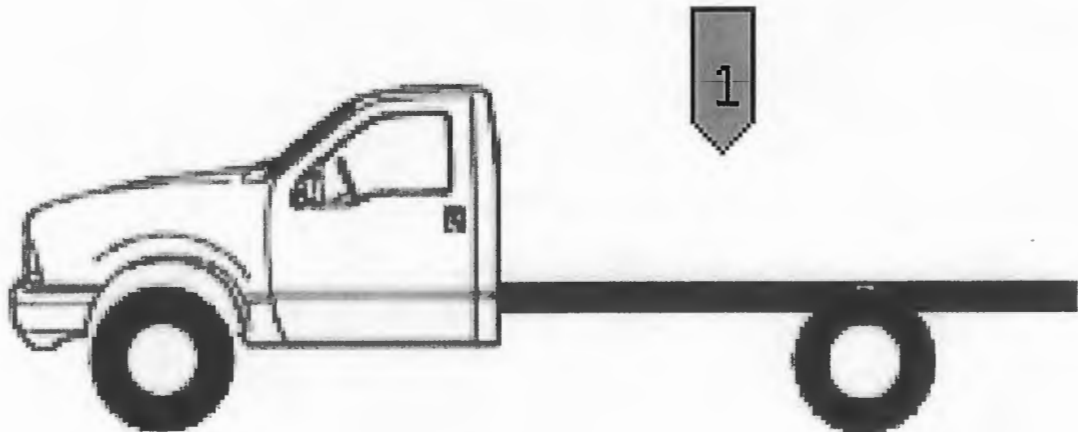
Prepared for: Troy Davis
 By: Chenn Bergen Date: 10/05/2017



Dams Ford Lincoln Sales Ltd.
 19330 Langley Bypass, Surrey, British Columbia,
 V3S7R2
 Office: 604-532-9921

2017 F-550 Chassis, SD Regular Cab
 4x2 SD Regular Cab 169" WB DRW XL(F5G)
 Price Level: 730 Quote ID: HarrisnF5G

Performance (cont'd)



Weight

GVW	Front Axle	Rear Axle	Totals
Chassis	3,740 lbs	3,139 lbs	6,879 lbs
Body	0 lbs	0 lbs	0 lbs
Occupants Weight	300 lbs	150 lbs	450 lbs
1 Max Payload - (Max Payload)	2,460 lbs	9,711 lbs	12,171 lbs
TOTAL	6,500 lbs	13,000 lbs	19,500 lbs

Ratings	Front Axle	Rear Axle	GVWR
GAWR	6,500 lbs	14,706 lbs	19,500 lbs
Wheels/Tires	7,500 lbs	15,000 lbs	
Suspension	6,500 lbs	15,000 lbs	
Axle	7,000 lbs	14,706 lbs	
Legal Axle Limit	0 lbs	0 lbs	

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Prepared for: Troy Davis
 By: Chenn Bergen Date: 10/05/2017



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 19330 Langley Bypass, Surrey, British Columbia,
 V3S7R2
 Office: 604-532-9921

2017 F-550 Chassis, SD Regular Cab
 4x2 SD Regular Cab 169" WB DRW XL(F5G)
 Price Level: 730 Quote ID: HarrisnF5G

Performance (cont'd)

Start, Grade and Speed

Start	Ratio	Desired	Calculated
Start grade capability in 1st gear	3.97	15.00 %	24.15 %
Start grade capability in reverse	3.13	15.00 %	19.01 %
Grade	Ratio	Desired	Calculated
Maximum grade in 4th gear	1.15	3.00 %	7.35 %
Maximum grade in 5th gear	0.86	3.00 %	5.49 %
Maximum grade in 6th gear	0.67	3.00 %	4.31 %
Speed		Desired	Calculated
Top Speed (level grade)		75 mph	85 mph
<i>To meet your requirement you need a maximum axle ratio of 8.83</i>			
Top Speed on 3.0% grade		55 mph	
<i>To meet your requirement you need a maximum of 122 hp</i>			
Cruise Speed		60 mph	74 mph
Engine RPM at desired cruise speed			2,121 rpm

Variables in Use

Rear axle ratio:	4.88/4.88	Peak Torque RPM:	3,000 rpm
Tire size:	225/70R19.5 (645 rev/mile)	Frontal Area:	40.39 Sq.Ft.
Gross Vehicle Weight (GVW):	19,500 lbs	Cruising RPM	2,600 rpm
Clutch engagement torque:	212 ft.lbs.	Worst road surface	Typical Highway
Torque conversion ratio:	1.90	Final Drive Ratio:	0.67
Peak engine torque:	424 ft.lbs.	Drag Coefficient	0.80
Engine Power:	288 hp @ 4,000 rpm		

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Prepared for: Troy Davis
 By: Chenn Bergen Date: 10/05/2017

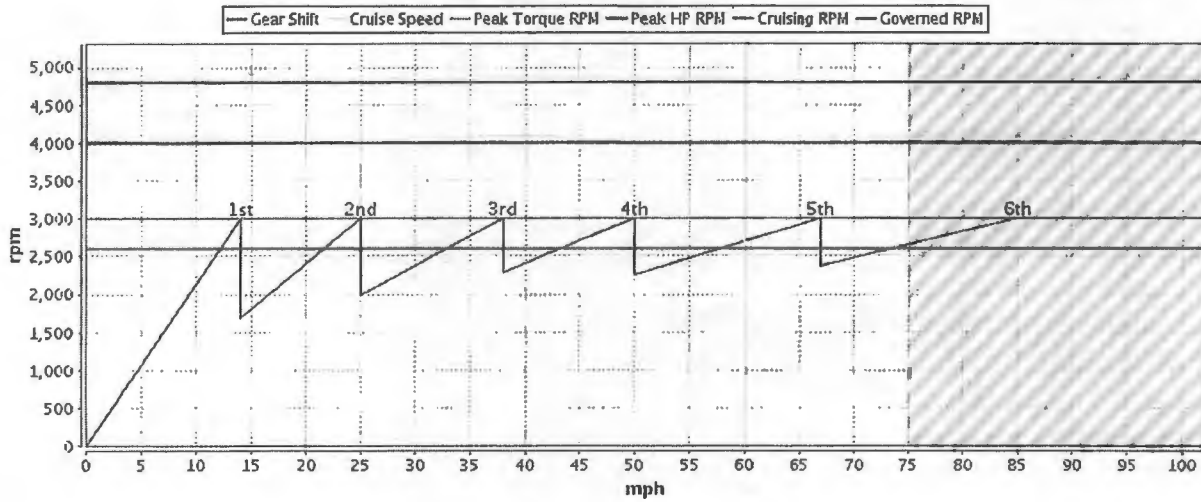


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2017 F-550 Chassis, SD Regular Cab
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 Price Level: 730 Quote ID: HarrisnF5G

Performance (cont'd)

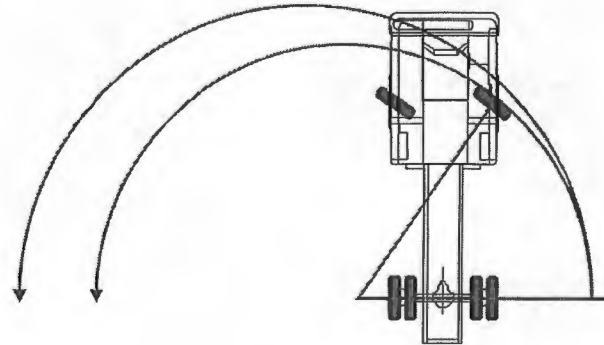
Shift Chart



Turning Radius

Turning Radius

24.25 ft



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Prepared for: Troy Davis
 By: Chenn Bergen Date: 10/05/2017

Appendix 2 – Alternate Truck Information

2017 Ford F-550 4X4 with 6.7L Power Stroke Diesel engine



Dams Ford Lincoln Sales Ltd.
19330 Langley Bypass, Surrey, British Columbia, V3S7R2
Office: 604-532-9921 Fax: 604-530-2525

Customer Proposal

Prepared for:

Mr. Monty Smith
Office: 604-888-5066

Prepared by:

Chenn Bergen
Office: 604-532-9921

Date: 10/11/2017

Vehicle: 2017 F-550 Chassis XLT
4x4 SD Regular Cab 169" WB DRW

Quote ID: FalcondF5H





Dams Ford Lincoln Sales Ltd.
 19330 Langley Bypass, Surrey, British Columbia,
 V3S7R2
 Office: 604-532-9921

2017 F-550 Chassis, SD Regular Cab
 4x4 SD Regular Cab 169" WB DRW XLT(F5H)
 Price Level: 730 Quote ID: FalcondF5H

Warranty - Standard Equipment & Specs

Warranty

Basic

Distance	37283 miles	Months	36 months
----------	-------------	--------	-----------

Powertrain

Distance	62139 miles	Months	60 months
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Corrosion Perforation

Distance	Unlimited miles	Months	60 months
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Roadside Assistance

Distance	62139 miles	Months	60 months
----------	-------------	--------	-----------

Accessories

Distance	37283 miles	Months	36 months
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Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See salesperson for the most current information.

Prepared for: Mr. Smith
 By: Chemn Bergen Date: 10/11/2017



Dams Ford Lincoln Sales Ltd.
19330 Langley Bypass, Surrey, British Columbia,
V3S7R2
Office: 604-532-9921

2017 F-550 Chassis, SD Regular Cab
4x4 SD Regular Cab 169" WB DRW XLT(F5H)
Price Level: 730 Quote ID: FalcondF5H

Selected Options

Code	Description	MSRP
Base Vehicle		
F5H	Base Vehicle Price (F5H)	\$55,899.00
Packages		
663A	Order Code 663A	N/C
	<p><i>Includes:</i></p> <ul style="list-style-type: none"> - Engine: 6.8L 3-Valve SOHC EFI NA V10 - CNG/Propane Gaseous Engine Prep Package - Includes hardened engine intake valves and valve seats. <i>NOTE: This package does not include CNG/Propane fuel tanks, lines, etc. Vehicle will be equipped with the standard factory gasoline fuel system. Additional equipment combined with certified calibration reflash is required, from an external upfitter, to convert the vehicle to a CNG/Propane fueled vehicle. Ford Motor Company does not provide an exhaust or evaporative emissions certificate with this option when converted to use CNG or Propane fuel. Ford does not represent that a vehicle converted to use CNG or Propane will comply with all applicable U.S. or Canadian safety standards. It is the responsibility of the final stage manufacturer (body builder, installer, alterer or subsequent stage manufacturer) to determine that any vehicle converted to use CNG or Propane complies with U.S. Federal, California, or Canadian exhaust and evaporative emission requirements, Federal fuel economy standards, U.S. and Canadian safety standards, labeling and any other requirements.</i> - Transmission: TorqShift 6-Speed Automatic w/OD (6R140). Includes SelectShift and tow/haul mode. - Limited Slip w/4.88 Axle Ratio - GVWR: 8,165 kgs (18,000 lbs) Payload Package - Tires: 225/70Rx19.5G BSW AS - Wheels: 19.5" Painted Steel - Cloth 40/20/40 Split Bench Seat w/Recline - Includes fold down centre armrest with 2 cupholders, lift up centre-seat with locking storage, powerpoint, driver's side manual lumbar and 4-way adjustable driver and passenger headrests. - Radio: Premium AM/FM Stereo w/Single-CD/MP3 Player - Includes digital clock, 5-speakers and SiriusXM satellite radio with 6-month prepaid subscription. 	
Powertrain		
99T	Engine: 6.7L 4V OHV Power Stroke V8 Turbo Diesel B20	\$9,450.00
	<p><i>Includes transmission mounted live drive and stationary mode PTO, 27 litre (7.2 gallon) plastic urea tank, exhaust brake, B20 capability, urea gauge and intelligent oil life monitor.</i></p> <p><i>Includes:</i></p> <ul style="list-style-type: none"> - Dual 78-AH 750 CCA Batteries - Rapid-Heat Supplemental Cab Heater - Dual Extra Heavy-Duty Alternators (Total 377-Amps) - 4.2" LCD Display in Centre-Stack 	
44W	Transmission: TorqShift 6-Speed Automatic	N/C
	(6R140), Includes SelectShift and tow/haul mode.	
X8L_	Limited Slip w/4.88 Axle Ratio (w/99T/68M)	N/C
68M	GVWR: 8,845 kgs (19,500 lbs) Payload Plus Package	\$380.00
	LATE AVAILABILITY Job 2 when 63C Aft-Axle Frame Extension is on order.	
	<i>Includes upgraded frame, upgraded rear-axle, low deflection/high capacity rear springs and 14,706 lbs. max rear GAWR. NOTE: See Super Duty Supplemental Reference Manual for further details on GVWR.</i>	
Wheels & Tires		
TGB	Tires: 225/70Rx19.5G BSW Max Traction	\$320.00

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Prepared for: Mr. Smith
By: Chenn Bergen Date: 10/11/2017



Dams Ford Lincoln Sales Ltd.
19330 Langley Bypass, Surrey, British Columbia,
V3S7R2
Office: 604-532-9921

2017 F-550 Chassis, SD Regular Cab
4x4 SD Regular Cab 169" WB DRW XLT(F5H)
Price Level: 730 Quote ID: FalcondF5H

Selected Options (cont'd)

Code	Description	MSRP
64Z	Wheels: 19.5" Painted Steel <i>Includes 4 traction tires on the rear and 2 traction tires on the front. Not recommended for over the road applications; could incur irregular front tire wear and/or NVH. Optional spare is BSW traction.</i>	Included
Seats & Seat Trim		
3	Cloth 40/20/40 Split Bench Seat w/Recline <i>Includes fold down centre armrest with 2 cupholders, lift up centre-seat with locking storage, powerpoint, driver's side manual lumbar and 4-way adjustable driver and passenger headrests.</i>	Included
Other Options		
PAINT	Monotone Paint Application	STD
169WB	169" Wheelbase	STD
76Z	Advanced Security Pack <i>Includes inclination/intrusion sensors in overhead console.</i>	\$100.00
98R	Operator Commanded Regeneration (OCR)	\$290.00
76C	Exterior Back-Up Alarm	\$150.00
52B	Trailer Brake Controller <i>Includes smart trailer tow connector. Verified to be compatible with electronic actuated drum brakes only.</i>	\$350.00
43C	110V/400W Outlet <i>Includes 1 in-dash mounted outlet.</i>	\$250.00
63A	Utility Lighting System <i>Includes LED side-mirror spotlights.</i>	\$250.00
18B	Platform Running Boards	\$490.00
585	Radio: Premium AM/FM Stereo w/Single-CD/MP3 Player <i>Includes digital clock, 5-speakers and SiriusXM satellite radio with 6-month prepaid subscription.</i>	Included
913	SYNC 3 Communications & Entertainment System <i>Includes 8" centre-stack touch-screen with audio control and compass, 4.2" productivity screen in IP cluster and 2 USB ports.</i>	\$500.00
166	Carpet Delete (LPO) <i>Replaced with black flooring.</i>	N/C
473	Snow Plow Prep Package <i>Includes pre-selected springs (see Super Duty Supplemental Reference Manual for springs/GAWR of specific vehicle configurations). NOTE 1: Restrictions apply; see Super Duty Supplemental Reference Manual or Body Builders Layout Book for details. NOTE 2: Also allows for the attachment of a winch.</i>	\$160.00
Interior Colors		
3S_02	Medium Earth Grey	N/C

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Prepared for: Mr. Smith
By: Chenn Bergen Date: 10/11/2017



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4x4 SD Regular Cab 169" WB DRW XLT(F5H)
Price Level: 730 Quote ID: FalcondF5H

Selected Options (cont'd)

Code	Description	MSRP
Primary Colors		
Z1_01	Oxford White	N/C
SUBTOTAL		\$68,589.00
Destination Charge		\$1,800.00
TOTAL		\$70,389.00

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Pricing - Single Vehicle

	MSRP
<i>Vehicle Pricing</i>	
Base Vehicle Price	\$55,899.00
Options & Colours	\$12,690.00
Upfitting	\$0.00
Destination Charge	\$1,800.00
<hr/>	
Subtotal	\$70,389.00
 <i>Pre-Tax Adjustments</i>	
Description	
Air Excise Tax	\$100.00
Small Municipalities / Indian Bands	\$0.00
	-\$13,941.00
<hr/>	
Total	\$56,548.00

 Customer Signature

 Acceptance Date

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Prepared for: Mr. Smith
 By: Chann Bergen Date: 10/11/2017

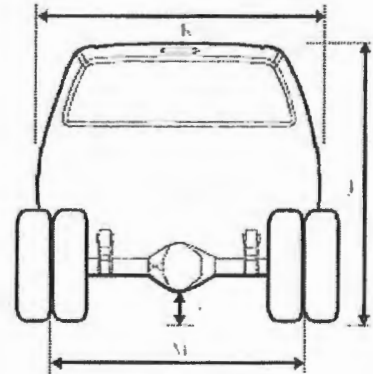
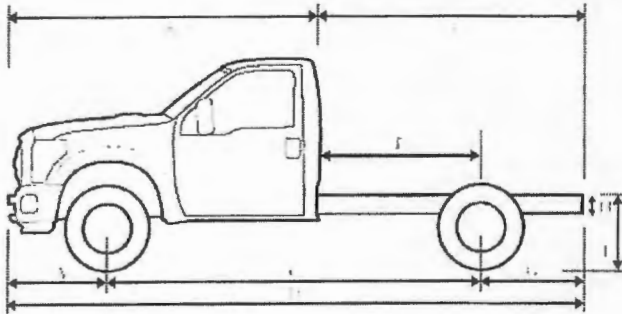


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 Price Level: 730 Quote ID: FalcondF5H

Performance

Performance predictions in this report represent an estimate of vehicle performance based on standard operating conditions. Variations in customer equipment, load configuration, ambient conditions, and/or operator driving techniques can cause significant variations in vehicle performance. These values are not representative of results that may be shown in actual dynamometer tests. This report should therefore be used as a guide for comparative vehicle performance.



Dimensions

A	Front of Bumper to Front Axle	38.30 in.
B	Front Bumper to Back of Cab (BBC)	123.70 in.
C	Wheelbase (WB)	169.00 in.
D	Overall Length (OAL)	254.80 in.
E	Back of Cab to Rear Axle (CA)	84.00 in.
F	Back of Cab to End of Frame	131.20 in.
G	Rear Axle to End of Frame (AF)	47.20 in.
H	Frame Section Height	N/A
I	Rear Frame Height Unloaded	34.50 in.
I	Rear Frame Height Loaded	28.60 in.
J	Cab Height	81.10 in.
K	Body Width	80.00 in.
L	Maximum Ground Clearance	N/A
L	Minimum Ground Clearance	8.30 in.
M	Front Tread	74.80 in.
M	Rear Tread	74.00 in.

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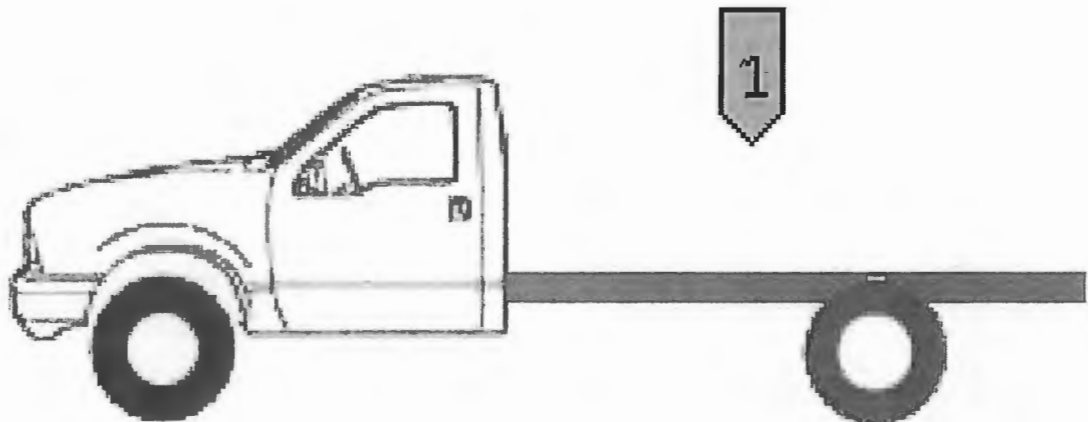
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Performance (cont'd)



Weight

<u>GVW</u>	<u>Front Axle</u>	<u>Rear Axle</u>	<u>Totals</u>
Chassis	4,756 lbs	3,249 lbs	8,005 lbs
Body	0 lbs	0 lbs	0 lbs
Occupants Weight	300 lbs	150 lbs	450 lbs
1 Max Payload - (Max Payload)	1,944 lbs	9,101 lbs	11,045 lbs
TOTAL	7,000 lbs	12,500 lbs	19,500 lbs

<u>Ratings</u>	<u>Front Axle</u>	<u>Rear Axle</u>	<u>GVWR</u>
GAWR	7,000 lbs	14,706 lbs	19,500 lbs
Wheels/Tires	7,500 lbs	15,000 lbs	
Suspension	7,000 lbs	15,000 lbs	
Axle	7,000 lbs	14,706 lbs	
Legal Axle Limit	0 lbs	0 lbs	

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Performance (cont'd)

Start, Grade and Speed

Start	Ratio	Desired	Calculated
Start grade capability in 1st gear	3.97	15.00 %	42.71 %
Start grade capability in reverse	3.13	15.00 %	33.62 %
Grade	Ratio	Desired	Calculated
Maximum grade in 4th gear	1.15	3.00 %	13.00 %
Maximum grade in 5th gear	0.86	3.00 %	9.71 %
Maximum grade in 6th gear	0.67	3.00 %	7.63 %
Speed		Desired	Calculated
Top Speed (level grade)		75 mph	88 mph
<i>To meet your requirement you need a maximum axle ratio of 5.74</i>			
Top Speed on 3.0% grade		55 mph	
<i>To meet your requirement you need a maximum of 122 hp</i>			
Cruise Speed		60 mph	65 mph
Engine RPM at desired cruise speed			2,121 rpm

Variables in Use

Rear axle ratio:	4.88/4.88	Governed RPM:	3,120 rpm
Tire size:	225/70R19.5 (645 rev/mile)	Frontal Area:	40.06 Sq.Ft.
Gross Vehicle Weight (GVW):	19,500 lbs	Cruising RPM	2,300 rpm
Clutch engagement torque:	375 ft.lbs.	Worst road surface	Typical Highway
Torque conversion ratio:	1.90	Final Drive Ratio:	0.67
Peak engine torque:	750 ft.lbs.	Drag Coefficient	0.80
Engine Power:	330 hp @ 2,600 rpm		

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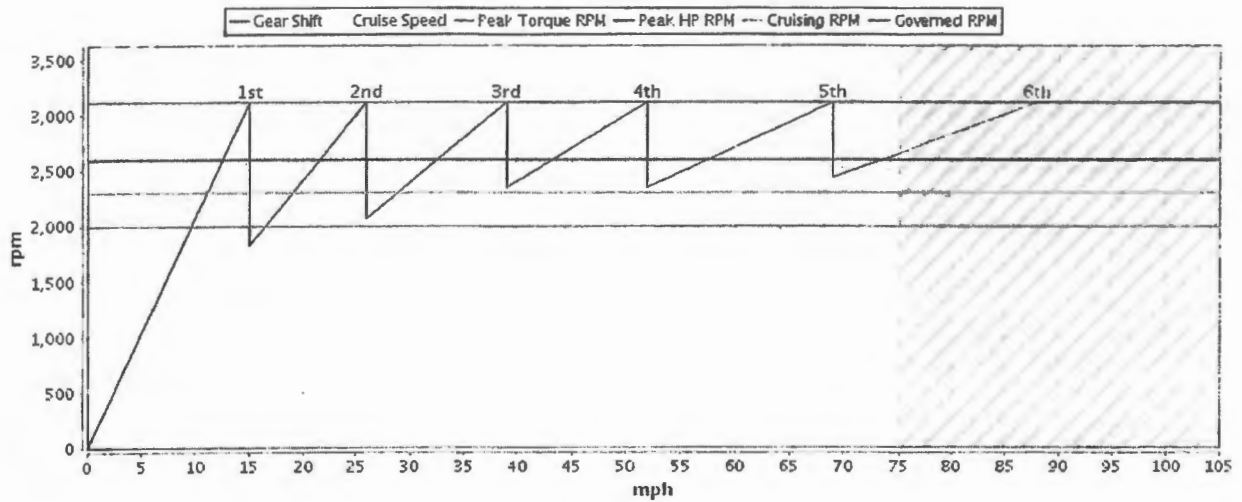


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Performance (cont'd)

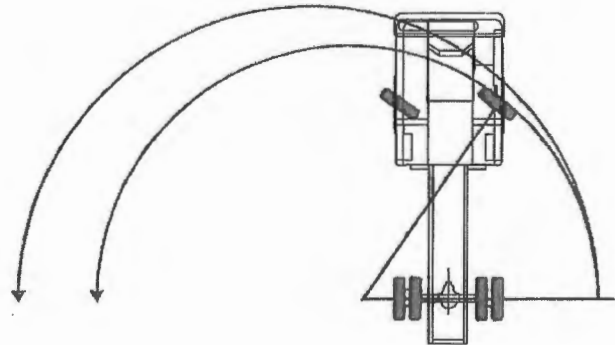
Shift Chart



Turning Radius

Turning Radius

24.25 ft



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 By: Chenn Bergen Date: 10/11/2017

Hiab 044D-2 CLX – Same as unit in Appendix 1

Henderson Mark III dump body – Same as unit in Appendix 1

Boss front plows for dual rear wheel chassis

PROFESSIONAL-USE PLOWS SUPER-DUTY STRAIGHT-BLADE

VEHICLE APPLICATION: 4X4 1/2 TO 1-TON TRUCKS AND SUVs

Steel
• 7'6"
• 8'0"
• 8'6"
• 9'0"



Poly
• 8'0"



SPECIFICATIONS	7'6" Super-Duty	8'0" Super-Duty	8'6" Super-Duty	9'0" Super-Duty**	8'0" Super-Duty Poly
Blade Width (Straight)	90" (229 cm)	96" (244 cm)	102" (259 cm)	108" (274 cm)	96" (244 cm)
Plowing Width @ 30° Angle	78" (198 cm)	83" (211 cm)	88" (224 cm)	93½" (238 cm)	83" (211 cm)
Blade Height	29" (74 cm)	29" (74 cm)	29" (74 cm)	29" (74 cm)	29" (74 cm)
Blade Thickness	11-ga steel	11-ga steel	11-ga steel	11-ga steel	¾" (1 cm) Poly
Cutting Edge	½" x 6" (1.3 cm x 15 cm)	½" x 6" (1.3 cm x 15 cm)	½" x 6" (1.3 cm x 15 cm)	½" x 6" (1.3 cm x 15 cm)	½" x 6" (1.3 cm x 15 cm)
Reinforcement Ribs	7 vertical, 2 diagonal	7 vertical, 2 diagonal	7 vertical, 2 diagonal	7 vertical, 2 diagonal	7 vertical, 2 diagonal
Plow Shoes	Cast iron	Cast iron	Cast iron	Cast iron	Cast iron
Trip Springs	4	4	4	4	4
Angle Cylinders	1½" x 10" (4 cm x 25 cm)	1½" x 10" (4 cm x 25 cm)	1½" x 10" (4 cm x 25 cm)	1½" x 10" (4 cm x 25 cm)	1½" x 10" (4 cm x 25 cm)
Lift Cylinder	2" x 1½" x 10" (5 cm x 3 cm x 25 cm)	2" x 1½" x 10" (5 cm x 3 cm x 25 cm)	2" x 1½" x 10" (5 cm x 3 cm x 25 cm)	2" x 1½" x 10" (5 cm x 3 cm x 25 cm)	2" x 1½" x 10" (5 cm x 3 cm x 25 cm)
Shock Absorber	1	1	1	1	1
Attachment System	SmartHitch 2	SmartHitch 2	SmartHitch 2	SmartHitch 2	SmartHitch 2
Plow Weight*	680 lb ⁹ (308 kg)	698 lb ⁹ (317 kg)	720 lb ⁹ (327 kg)	742 lb ⁹ (337 kg)	722 lb ⁹ (328 kg)
Plow Lights	SmartLight 2	SmartLight 2	SmartLight 2	SmartLight 2	SmartLight 2

*Plow weight does not include vehicle mount weight. ⁹Vehicle mount weight range: 75–105 lb (34–48 kg). **Includes 1-ton trucks with dual rear wheels.

TWO-YEAR LIMITED WARRANTY

ALL BOSS SNOWPLOWS AND EQUIPMENT ARE GUARANTEED TO BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR TWO FULL YEARS FROM THE DATE OF PURCHASE. STOP BY ANY AUTHORIZED BOSS DEALER TO RECEIVE COMPLETE DETAILS ON OUR TWO-YEAR PARTS AND LABOR WARRANTY.

LEGAL STATEMENT

VEHICLES INTENDED TO BE EQUIPPED WITH A SPREADER AND/OR SNOWPLOW MUST COMPLY WITH THE VEHICLE MANUFACTURERS' SPECIFICATIONS FOR EQUIPMENT APPLICATION. BOSS PRODUCTS/NORTHERN STAR INDUSTRIES, INC. RESERVES THE RIGHT UNDER ITS PRODUCT IMPROVEMENT POLICY TO CHANGE CONSTRUCTION OR DESIGN DETAILS AND FURNISH EQUIPMENT WHEN SO ALTERED WITHOUT REFERENCE TO ILLUSTRATIONS OR SPECIFICATIONS USED HEREIN.



BOSS SNOWPLOW PRODUCTS ARE DESIGNED AND MANUFACTURED IN AN APPROVED ISO 9001:2000 REGISTERED FACILITY.

BOSS PRODUCTS ARE COVERED UNDER ONE OR MORE OF THE FOLLOWING PATENT NUMBERS: U.S. PATENTS: 4,074,448; 4,658,519; 5,568,694; 6,170,178; 6,134,814; 6,108,946; 6,467,199; 7,437,839. CANADIAN PATENTS: 1,300,877; 2,330,135. OTHER PATENTS PENDING. ©2009 BOSS PRODUCTS/NORTHERN STAR INDUSTRIES, INC. ALL RIGHTS RESERVED. PRINTED IN U.S.A.



PUSHING THE EDGE

FOR MORE INFORMATION OR THE BOSS DEALER NEAREST YOU, CALL 800-286-4155 OR VISIT BOSSPLOW.COM

Appendix 3 – UTV Information

KUBOTA 4WD DIESEL UTILITY VEHICLE

For Earth, For Life

Kubota

RTV X-Series





Get ready for a whole new RTV experience.

Kubota RTVs have been the best-selling diesel utility vehicles in North America since 2004.* And no wonder. Each year, they set the standard for ruggedness and reliability, proving themselves ready to work day after day under all kinds of conditions.

Well, the best just got a whole lot better. Meet the all-new Kubota RTV X-Series, three rough-and-ready RTV's that raise the bar on comfort, convenience, and performance.

It's a whole new driving experience, too, with a smoother ride, better driveability, more legroom, and improved ergonomics throughout.

Ready for an RTV experience you won't soon forget? Visit your Kubota dealer today and experience for yourself the all-new RTV X-Series.

*Power Products Marketing North American Utility Vehicle Market Reports

KUBOTA 4WD DIESEL UTILITY VEHICLE

RTV X-Series

**The Kubota RTV X-Series. All-new performance,
all-new comfort, all the time.**

RTV-X900

Comfort and versatility make this Kubota's most popular model for all types of jobs. It comes with a powerful 21.6 HP diesel engine and your choice of Kubota Orange or Realtree AP Camo styling.



When there's work to be done on the far side of nowhere, you need a vehicle that can get you there quickly, get the job done efficiently, and get you back comfortably.

RTV-X1120D

A step up in power, comfort, convenience and style, the all-new RTV-X1120D has everything you need to get the job done, including a rugged and dependable 24.8 HP diesel engine and handsome blue-tinted halogen headlights.

Introducing the all-new RTV X-Series from Kubota. Three rugged and reliable utility vehicles with more of the things that you need to get the job done right.

RTV-X1100C

The first RTV to offer a factory-installed unibody A/C cab, the RTV-X1100C is still the industry leader in work comfort. The fully enclosed cab features air conditioning, defroster, and heating systems to keep you comfortable in all types of weather for all types of jobs.



Kubota diesel engines—dependable power, when and where you need it.

Power when and where you need it

Even when the path disappears, you can rely on the RTV X-Series' powerful diesel engines to keep you moving forward. Kubota-built and trail-proven, these 3-cylinder liquid-cooled diesel engines have a well-earned reputation for dependable performance even in the harshest terrains. The RTV-X900 comes with a robust 21.6 HP engine, while the RTV-X1120D and RTV-X1100C provide an extra boost of power from 24.8 HP engines.



RTV-X900

VHT-X (Variable Hydraulic Transmission)

Kubota has more experience in variable hydraulic transmissions than any other Utility Vehicle manufacturer. Kubota's advanced VHT-X offers a wide torque band and large oil coolers that boost performance and durability.



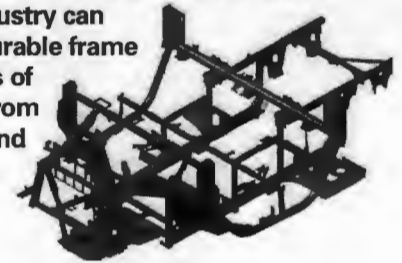
Two-speed In-line Shift

You'll shift less often and maintain better control, thanks to new transmission gearing with just two forward speeds (high and low), plus neutral, and reverse.



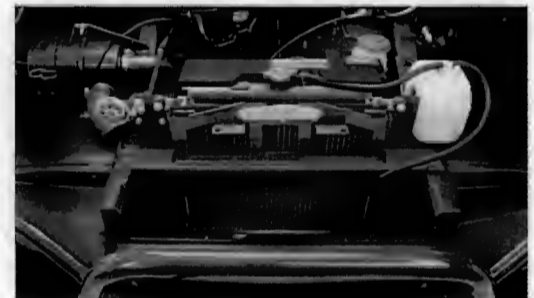
Strong High-rigidity Frame

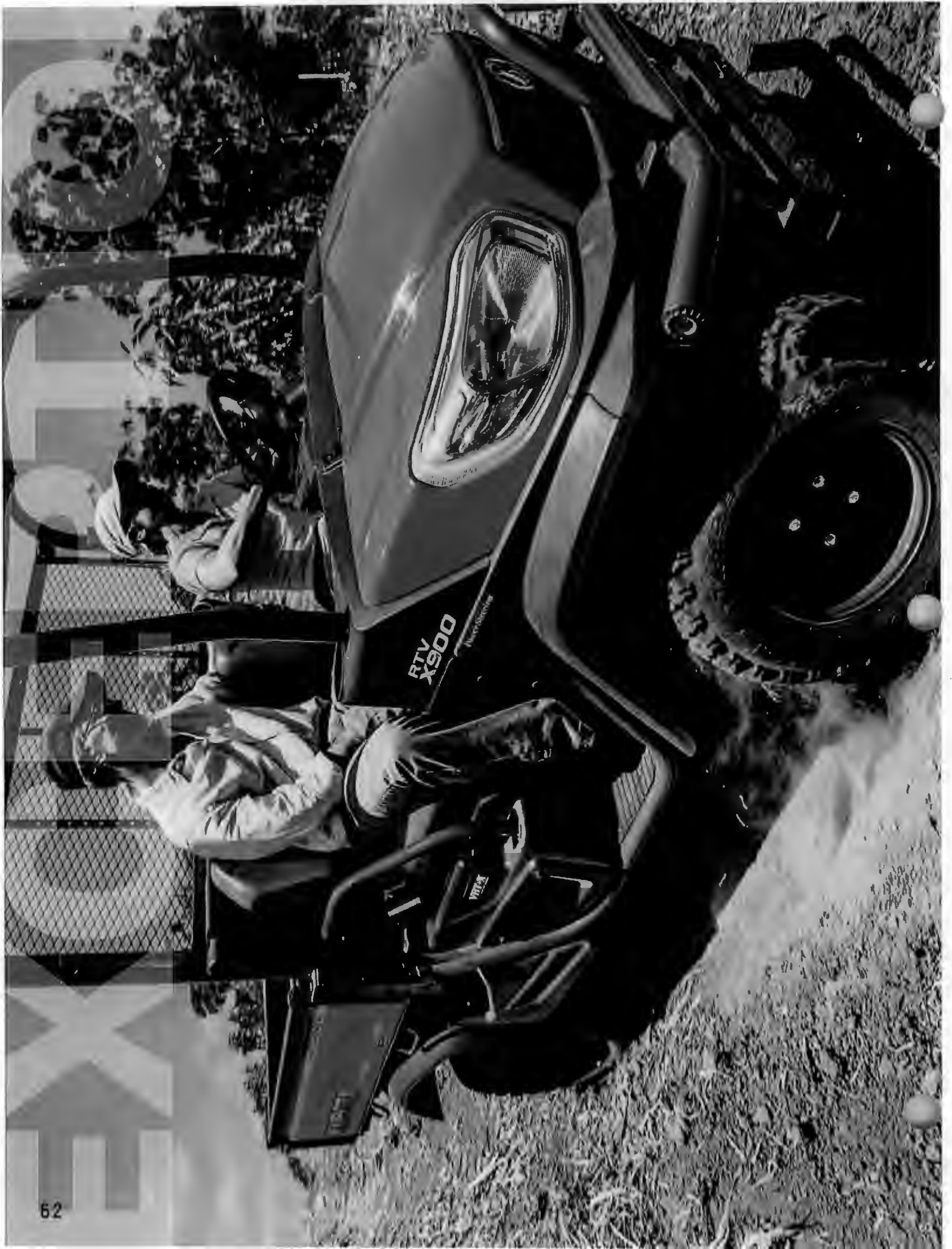
The high-rigidity steel frame isolates the occupants from noise, vibrations, and harshness. With structural strength that few in the industry can match, this durable frame can take years of punishment from heavy loads and rough terrain.



20% Larger, Clog-resistant Radiator

Open the hood, and you'll find the radiator and air-intake located high and up front, where the air is cleaner and cooler. This improves both radiator performance and simplifies maintenance. Kubota's wide fin pitch design minimizes clogging, further improving radiator performance.





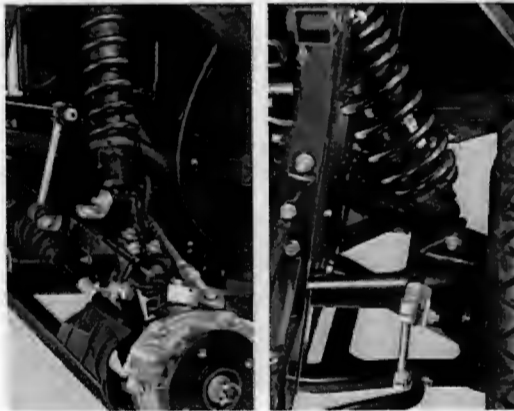
ALL RIDE

Get in and buckle up. You're about to experience a whole new level of driving performance.

Front & Rear Independent Suspension



Regardless of the terrain or load, independent suspension on all four wheels ensures a truly exceptional ride. Kubota's Extra Duty IRS (Independent Rear Suspension) technology also sets a new standard for durability.



Height-adjustable Front and Rear Suspension

Whether you've got a heavy load or no load at all, adjustment of the front and rear suspension height will ensure the proper vehicle height for a smooth ride and optimum driveability for hard to get to work environments.

High Ground Clearance

The new X-series raises the bar on ground clearance—to a full 10.4" with 8" of suspension travel—letting you glide over the bumps rather than through them.

Limited-Slip Front Differential

True 4-wheel drive with a limited-slip front differential and a locking rear differential help reduce wheelspin to a minimum, giving you greater control and a smoother ride on rough or muddy terrain.

Dynamic Braking

You'll feel more secure, especially when traveling down long inclines, knowing that dynamic braking is providing additional braking power and greater driving control.



CV Joint Protectors and Skid Plates

Obstacles on the path? CV joint protectors and heavy-duty skid plates will protect the most critical parts of the engine and transmission.





A whole new experience in driving comfort.

The experience begins the moment you step into the driver's compartment and settle into the seat. Clearly, the X-Series was designed for driving comfort and convenience under tough working conditions. More room for your legs, controls that fall naturally under your hands, plenty of utility storage space... from head to toe and side to side, it's a whole new level of easy, practical driveability that must be experienced to appreciate.



60:40 Split-bench Seats

The split-bench style seat is ergonomically designed to provide hours of working comfort. The driver's side is adjustable fore and aft.*

**Driver's side seat adjuster is not available on RTV-X900 General Purpose models.*



Power Steering

Responsive hydrostatic power steering gives you the control you need to tame any terrain. The steering wheel is tilt-adjustable, allowing you to set the optimum angle for your driving style.*

**Tilt-feature is not available on RTV-X900 General Purpose models.*



Digital Meter Cluster

Bright, with large, easy-to-read indicators, this digital meter cluster keeps you informed of all critical driving conditions, including speed, hours, and miles traveled. An Overheat Alarm (light and audio) helps prevent engine damage.



Easily accessible Parking Brake

The parking brake is conveniently located on the dashboard for easier access as well as more legroom.



Glove Box*

A large glove box on the passenger side provides fast access to critical tools and personal effects.

**Glove box is not available on RTV-X1100C models.*

**Glove box cover is optional on RTV-X900 General Purpose models.*



Under-seat Storage Compartments

Large compartments under the split-bench seats provide plenty of convenient storage space for tools, tie-downs, and personal items.

CAPABILITIES

The capacity for hauling, the strength for towing.

Carry up to 15.2 cubic feet of cargo

It's not enough to get you there and back. You need to get your stuff there and back, as well. This heavy-duty steel cargo box can do that for you, carrying up to a half-ton (1,102 lbs.) of tools, firewood, gear, supplies...whatever you need to haul from here to there and back again. Cargo tie-down hooks help keep your gear secure.

Dumping Cargo Box*

With the flick of a single lever, the hydraulic-lift cargo box rises and your cargo slides out. Cargo that could take significant physical strength and time to unload can now be dumped with little effort in mere seconds.

**Manual dumping on RTV-X900 General Purpose model.*



**Photo with factory installed Spray-on Bedliner option.*



Spray-on Bed Liner (factory option)

An optional factory-installed bed liner helps protect the cargo bed from dirt and damage. Four tie-down hooks in the corners help keep loads in place.

Towing Capacity

Standard two-inch hitch receivers at the front and back let you tow up to 1,300 lbs. of gear.



Get ready for an all-new level of comfort and performance. Get ready

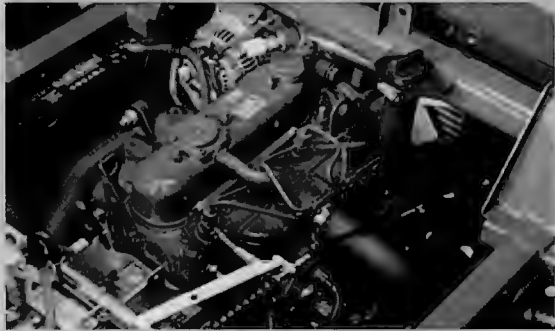
Here's the one you've been waiting for. The one with more of everything.

More power, more convenience, more comfort, more style. We call it the RTV-X1120D. You'll call it amazing.

RTV X1120D

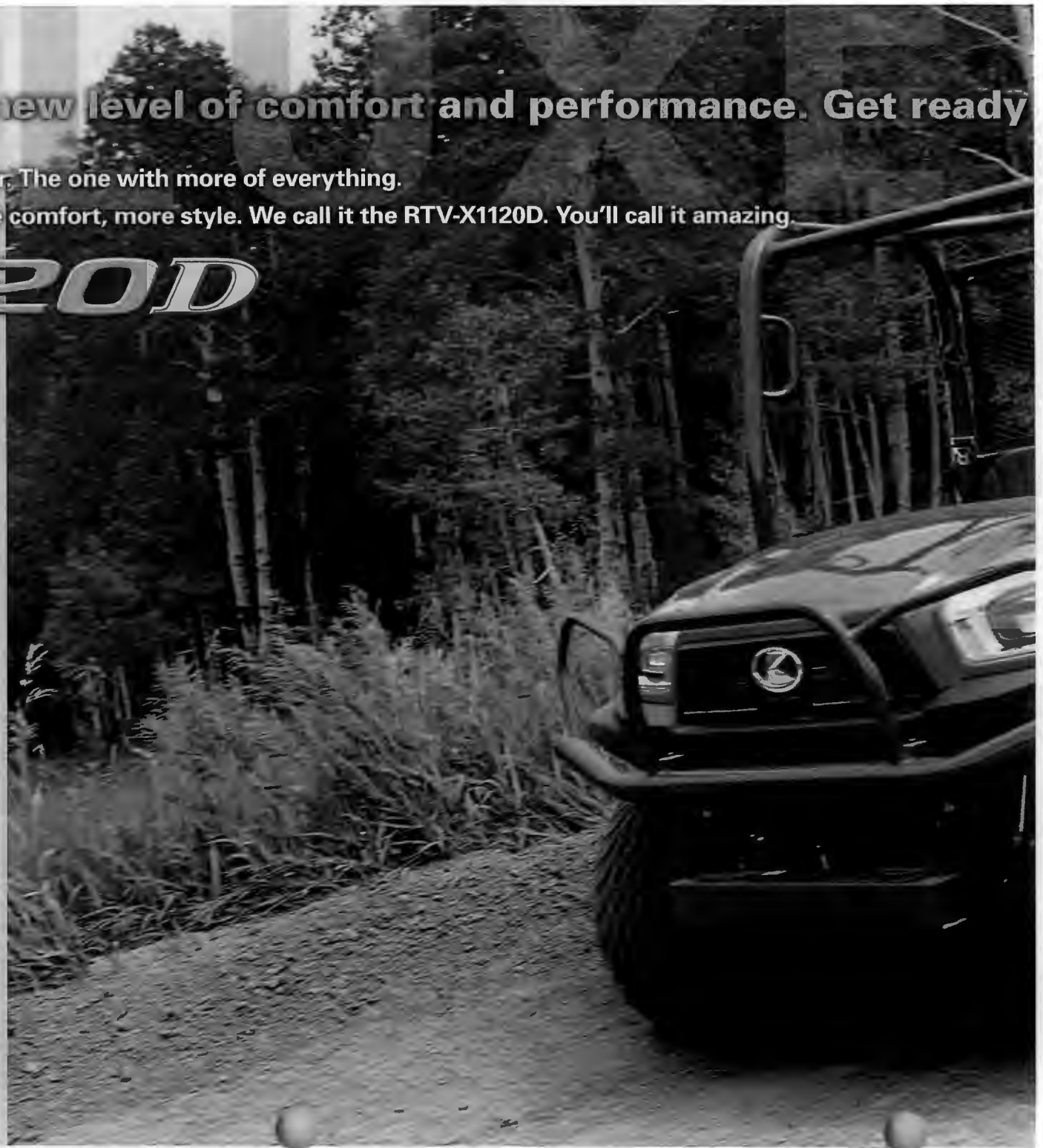
More Powerful Engine

For jobs that require extra acceleration and climbing power, the RTV-X1120D is the obvious choice. It packs Kubota's proven 24.8 HP diesel engine, which provides a top speed of 29 mph and plenty of hill-climbing power.



Sculpted, Blue-tinted Headlights

Bright and far-reaching halogen headlights with adjustable optical axis provide plenty of light for driving in dim-light conditions. Sculpted and tinted blue, these handsome lights add a touch of class to the RTV-X1120D's distinctive styling.



for the RTV-X1120D.



69

RTV-X1120D

Three-point Seatbelts

With the RTV-X1120D's increased speed comes increased dynamic loads; so you and your passenger are strapped in with three-point seatbelts.

Half Door

Half doors on the driver and passenger sides help keep out the dirt, brush, and other external objects, while letting you enter and exit with ease.



New Alloy Wheels

You'll travel in style with these good-looking, machine-polished alloy wheels.* Clear Coating helps keep them bright and shiny.

**Realtree AP Camo model features black alloy wheels with polished outer surfaces.*



HERCO

**So comfortable, so fun to drive,
you'll find excuses to take it for a spin.**

Premium Grand Cab

Whether it's hot and humid, cold and windy, or raining cats and dogs, you'll stay dry and comfortable inside the RTV-X1100C's quiet and luxurious air-conditioned and heated cab. Built around a unibody frame that is virtually airtight, soundproof, and rattle-free, the cab incorporates highly efficient air-conditioning, heating, and defogging functions, as well as antennas and speakers for an optional radio.

And when the weather is nice? Just roll down the fully opening windows. This truly is the best all-weather, all-comfort, all-the-time working environment you'll ever experience on the trail.



COMFORT CAB

RTV-X1100C

Air Conditioner and Heater

Hot or cold, rain or shine, the temperature inside can always be just right for you. The air conditioner, defroster, and heater system are powerful, efficient, and standard equipment on the RTV-X1100C.



Unibody Cab and Chassis Frame

You'll enjoy a smoother, quieter, more comfortable ride, thanks to the RTV-X1100C's integrated unibody cab and chassis frame. They form a rigid yet lightweight unit that is rugged, airtight, low-noise, and rattle-free. Even more impressive, the cab meets SAE J2194 and OSHA 1928 ROPS standards.



SPECIFICATIONS

Model		RTV-X900 General Purpose	RTV-X900 Worksite		RTV-X
Body color		Kubota Orange	Kubota Orange	Realtree® AP Camo	Kubota Orange
Engine	Make	KUBOTA D902-E4-LV			
	Type	3-cylinders, 4-cycle, diesel, OHV			
	Displacement	cu.in (cc)	54.8 (898)		
	Horsepower	HP (kW)/rpm	21.6 (16.1)@3200		
	Cooling system		Liquid		
Battery			540 CCA		
Transmission			Variable hydro transmission (VHT-X)		
Gear selection			Hi-Lo range forward, neutral, reverse		
Max. traveling speed		mph (km/h)	0-25 (0-40)		0-29
4WD system	Front differential		Limited-slip differential		
	Rear differential		Foot operated differential lock		
Steering			Hydrostatic power		
Brakes	Front / Rear		Wet-disc brakes		
	Parking brake		Rear wheel, hand operated		
Suspension	Front suspension		Independent, Dual A-arms with adjustable spring		
	Front suspension travel	in. (mm)	8 (205)		
	Rear suspension		Independent with coil over shock		
	Rear suspension travel	in. (mm)	8 (205)		
Ground clearance	Front	in. (mm)	10.5 (266)		
	Rear	in. (mm)	10.4 (263)		
	Under foot platform	in. (mm)	11.0 (280)		
Headlights			Two 37.5 watt halogen		Two 37.5 watt blue-tint halogen,
Occupant Protective System (OPS)	Tubular overhead structure	in. (mm)			2.0 (50.8) steel tube
	Seat belts		2-point		3-
	Certification		SAE J2194 and OSHA 1928 ROPS		SAE J2194 and OSHA 1928
Dimensions	Length	in. (mm)	120.3 (3055)		122.5
	Width	in. (mm)		63.2 (1605)	
	Height, overall	in. (mm)		79.5 (2020)	
	Front tread centers	in. (mm)			48.8 (1240)
	Rear tread centers	in. (mm)			48.8 (1240)
	Wheelbase	in. (mm)			80.5 (2045)
	Turning radius	ft. (m)			13.1 (4.0)
Weight	lbs. (kg)	1907 (865)		1973 (895)	2061
Towing capacity	lbs. (kg)				1300 (590)
Payload capacity	lbs. (kg)	1664 (755)		1598 (725)	1510
Cargo bed	Material		Steel		
	Width x Length x Depth	in. (mm)	57.7 (1465) x 40.5 (1030) x 11.2 (285)		
	Volume	cu. ft. (m³)	15.2 (0.43)		
	Bed height (unloaded)	in. (mm)	34.9 (887)		
	Cargo bed load	lbs. (kg)	1102 (500)		
	Dumping system		Manual		
Fuel tank capacity	U.S. gals (ℓ)				7.9 (30)
Sound rating at operator's ear at max rpm		dB. (A)	85		
Tires	Front and rear	ATV			25x10-12, 6-ply
		HDWS			25x10-12, 6-ply
	TURF	25x10-12, 4-ply		—	—
Front guard design			Simple, center only	Center and bumper	
Alloy wheel (not available with Turf tire)				Opt.	
Hydraulic bed lift			Opt.		
Spray-on bed liner			—		

ACCESSORIES & ATTACHMENTS

Please visit your local dealer or www.kubota.com for details

Modular "Build Your Own" Cab Enclosure System

Step 1: Pick a Canopy

- Canopy- Metal FOPS (Black or Orange)
- Canopy- Plastic (Black)

Step 2: Pick a windshield

- Windshield- Tempered Glass
- Windshield- Laminated Glass
- Windshield- Hard-coated Polycarb

Step 3: Pick door type

- Doors- Metal (Black or Orange)
- Doors- Vinyl with Metal frame (Black)

Step 4: Add Rear Panel to complete enclosure

- Rear Panel- Metal (Black)

Step 5: Add accessories to customize your Cab Enclosure

- Mirrors- External Deluxe
- Cab Heater
- Interior Dome Light
- LED Worklights- Front and/or Rear
- Strobe Light
- Dash Panel Switch/Harness Panel

Stand-alone Canopies & Windshields, ROPS Accessories

- Windshield- Acrylic (Clear or Tinted)
- Windshield- Uncoated Polycarb (Clear or Tinted)
- Plastic Canopy- Black
- Halogen Worklights- Front and/or Rear
- Mirror for ROPS RTVs
- ROPS Organizer

Front Attachments, Rear Sprayers and Spreaders

(may require additional components)

- General Duty Front 72" Straight Blade
- Commercial HD Front 72" Straight & V-Blades
- Commercial HD 60" Rotary Broom
- Front Hydraulic Quick Hitch
- Deluxe Hydraulic Controls & Valve Kits
- 68 Gallon Sprayer System
- 10 cubic foot Cargo Box Salt/Sand Spreader
- 3 cubic foot Rear Mount Spreaders

Exterior, Mechanical & Electrical Accessories

- Alloy Wheels & Tires
- 4,000 lbs Winch Kit
- RAC "Rapid Access Cargo" System
- 2" Trailer Hitch Ball Mount Kit
- Vehicle Storage Cover
- Plastic Cargo Bedliner
- Tail Lamp Guard Kit
- Splash Guard Kits
- CV Joint Guards- front or rear
- Turn Signal/Hazard Light Kit
- Backup Alarm Kit
- Front HD Spring & Damper Kits
- Engine Block Heater Kit
- Engine Hand Throttle Kits

120D	RTV-X1100C
Realtree® AP Camo	Kubota Orange
Realtree® AP Camo	Realtree® AP Camo
KUBOTA D1105-E4-UV	
3-cylinders, 4-cycle, diesel, OHV	
68.5 (1123)	
24.8 (18.5) @ 3000	
Liquid	
650 CCA	
0-48.4)	0-25 (0-40)
reload	
optical axis adjustment	Two 37.5 watt halogen
point	2-point
ROPS and ANSI B71.9 (3110)	SAE J2194 and OSHA 1928 ROPS
	65.4 (1660)
	82.3 (2090)
(935)	2370 (1075)
(685)	1628 (739)
power lift	
84	83
	25x10-12, 4-ply
Center, bumper and lens	
Std.	Opt.
Std.	
Opt.	

**Realtree® is a registered trademark of Jordan Outdoor Enterprises, Ltd.

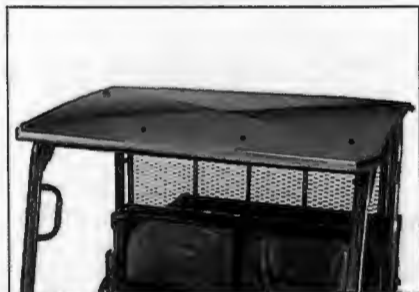
The company reserves the right to change the above specifications without notice.

This brochure is for descriptive purposes only. Please contact your local Kubota dealer for warranty and safety information.

The values in "Ground clearance" and "Weight" are those of the machine equipped with the tires in the table above.

Some RTVs in this brochure are shown with optional accessories. For off-highway use only.

ACCESSORIES & ATTACHMENTS



■ **Metal FOPS Canopy**
(RTV-X900 & RTV-X1120D only)
VC5000



■ **Plastic Canopy**
(RTV-X900 & RTV-X1120D only – Shown with VC5056
LED Strobe Light)
VC5011



■ **Roof and Windshield**
(RTV-X900 & RTV-X1120D only – Not compatible
with "VC" canopies/windshields)
V5221 – Plastic Canopy
V5259 – Uncoated Polycarb Windshield



■ **Hardened Acrylic Windshields**
(RTV-X900 & RTV-X1120D only – Compatible with
all "VC" canopies)
V5027 – Clear Acrylic Windshield
V5028 – Tinted Acrylic Windshield



■ **Laminated Windshield**
(RTV-X900 & RTV-X1120D only)
VC5020



■ **Tempered Glass Windshield**
(RTV-X900 only)
VC5025



■ **Poly Windshield**
(RTV-X900 & RTV-X1120D only)
VC5023



■ **Metal Doors with sliding windows**
(RTV-X900 & RTV-X1120D only)
VC5090 – Black
VC5091 – Orange



■ **Kubota Vinyl Door**
(RTV-X900 & RTV-X1120D only)
VC5095



■ **Rear Panel**
(RTV-X900 & RTV-X1120D only – Shown with
optional rear worklights and flashers)
VC5040



■ **RTV Mirror Kit**
(RTV-X900 & RTV-X1120D only)
VC5076



■ **Rear View Mirror**
(RTV-X900 & RTV-X1120D only)
VC5070



■ **Dome Light**
(RTV-X900 & RTV-X1120D only)
 VC5053



■ **Wiper** *(RTV-X900 & RTV-X1120D only)*
 VC5030



■ **LED Front Worklights (x2)**
(RTV-X900 & RTV-X1120D only)
 VC5050



■ **Rear Work Light**
(RTV-X900 & RTV-X1120D only)
 VC5051



■ **Strobe Light**
 VC5056 – RTV-X900 & RTV-X1120D
 VC5058 – RTV-X1100C



■ **RTV Mirror Kit** *(RTV-X1100C only)*
 V5059 – Cab



■ **72" General Duty Straight Blade with Quick Hitch**
 V5008



■ **Commercial 72" Hydraulic Straight Blade**
 V5290



■ **Commercial 72" V-Blade**
 V5291



■ **60" Hydraulic Rotary Broom**
 V5260



■ **Front Hydraulic Quick Hitch**
 V5289



■ **Hydraulic Control & Valve System**
 V5232 – 2-function Control & Valve
 V5233 – 3-function Hydraulic Valve Upgrade Kit *(not shown)*

ACCESSORIES & ATTACHMENTS



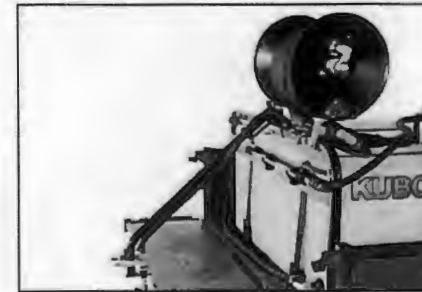
■ Curb Guard
V5256



■ Front Guard Adapter Kit
V5255



■ Dust Suppression System for
Rotary Broom (requires V5292 68 Gallon tank)
V4496



■ 68 Gallon Tank and with Hose
Reel & Spray Wand
V5292



■ Cargo Box Spreader
(RTV-X900 & RTV-X1100C only)
V5005



■ Material Control Tube for V5005
V4407



■ Winch Kit (4,000lbs capacity)
V5244



■ Trailer Hitch Ball Mount Kit
V5200



■ Vehicle Storage Cover
V4382



■ Plastic Cargo Bedliner
V5229



■ Tail Lamp Guard
V5227



■ Turn Signal/Hazard Light Kit
V5237



■ RAC "Rapid Access Cargo" System* (RTV-X900 & RTV-X1100C only)
V5012 – Full RAC Frame System



■ RAC "Rapid Access Cargo" System* (RTV-X900 & RTV-X1100C only)
V5015 – Extender Basket



■ RAC "Rapid Access Cargo" System* (RTV-X900 & RTV-X1100C only)
V5016 – Half Clip Basket



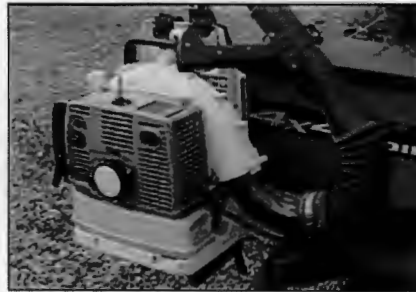
■ RAC "Rapid Access Cargo" System* (RTV-X900 & RTV-X1100C only)
V5017 – Full Clip Basket



■ RAC "Rapid Access Cargo" System* (RTV-X900 & RTV-X1100C only)
V4418 – Long Handle Tool Carrier



■ RAC "Rapid Access Cargo" System* (RTV-X900 & RTV-X1100C only)
V4419 – String Trimmer Holder



■ RAC "Rapid Access Cargo" System* (RTV-X900 & RTV-X1100C only)
V4421 – Backpack Blower Holder



■ RAC "Rapid Access Cargo" System* (RTV-X900 & RTV-X1100C only)
V4422 – Cooler/Bucket Cruiser



■ Alloy Wheels and Tires
(Standard on RTV-X1120D models)
V5203 – Black wheels
V5205 – Silver wheels

■ Splash Guard Kit
V5225 – Front Wheels
V5226 – Rear Wheels

■ CV Joint Guards
V5238 – Front
V5239 – Rear

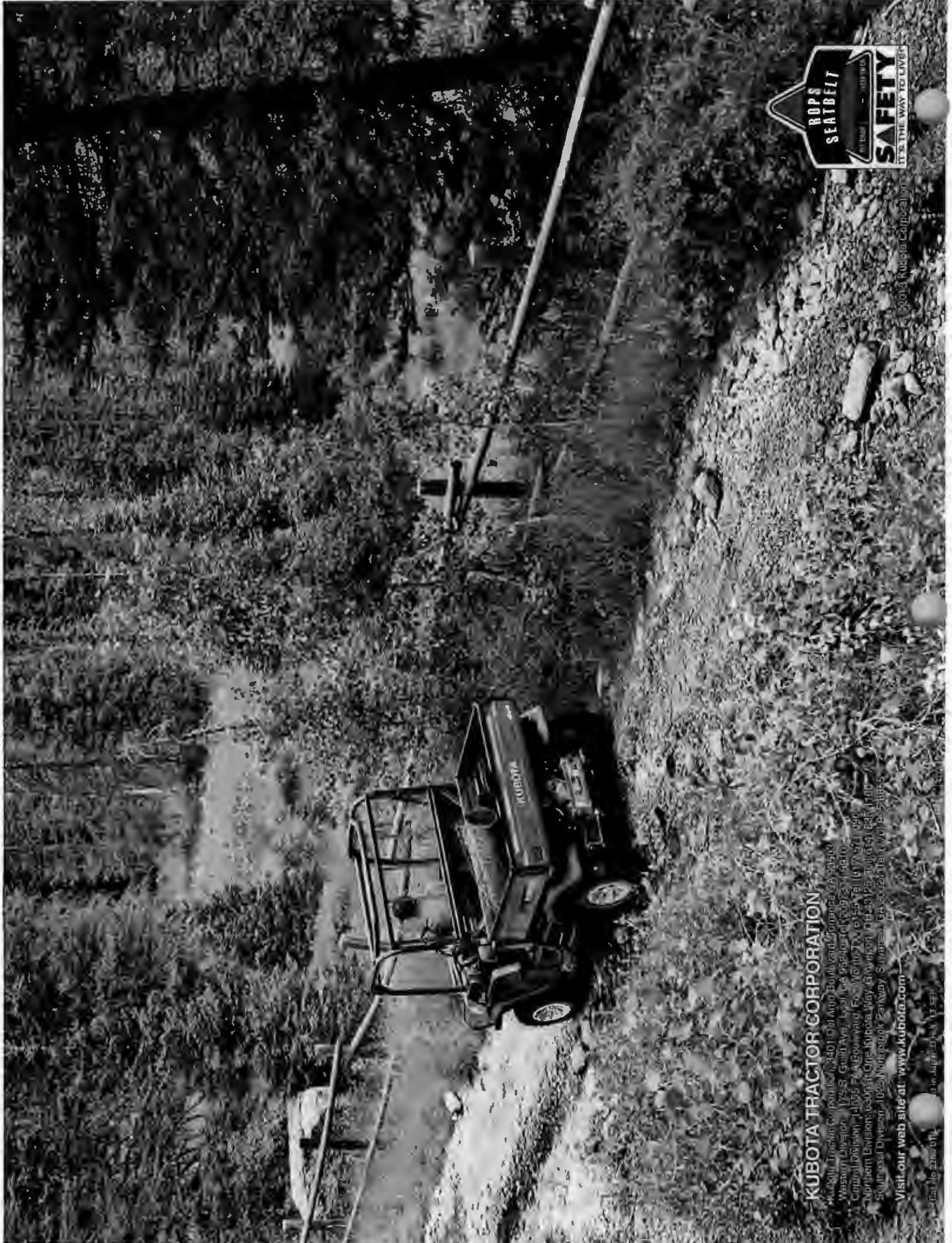
■ Backup Alarm Kit
V5236

■ Halogen Worklights
(RTV-X1100C only)
V5282 – Front Lights
V5283 – Rear Lights

■ Front Heavy Duty Spring & Damper Kits (RTV-X900 & RTV-X1120D only)
V5218 – Front HD Springs (x2)
V5219 – Front HD Springs & Struts (x2)

■ Engine Hand Throttle Kit
V5241 – RTV-X900
V5243 – RTV-X1120D & RTV-X1100C

* RAC System does not include blowers, coolers, or any props shown in photos.



KUBOTA TRACTOR CORPORATION

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Appendix 4 – Manure Sweeper Information

HOME ATV ATTACHMENTS MANURE SWEEPER TOW AND COLLECT – PRO
1500

TOW AND COLLECT – PRO 1500

TOW AND COLLECT

Pro 1500

The Tow and Collect 1500 Pro is a speedy solution to cleaning large areas with ease.







COLLECTION WIDTH

60 inches (5 Foot)

ENGINE MODEL

Kohler CH270 – 7hp

ENGINE FUEL

4 Stroke, 91 Octane

BRUSH DRIVE SYSTEM

Chain Drive thru 2:1 Reduction Gear

COLLECTION CAPACITY

160 Gallons

SIZE ASSEMBLED

7ft 3" x 6ft 6" x 3ft (L x W x H)

SIZE CRATED

4ft 9" x 6ft 8" x 2ft 3" (L x W x H)

WEIGHT UNCRATED

540 lbs

WEIGHT CRATED

720lbs

JOCKEY WHEEL

Optional

ELECTRIC KEY START

YES

TOW HITCH

2" Coupling or 1 7/8" Hole



BY METALFORM

Appendix 5 – Steamwand Before and After Photos

Before treatment





Immediately after treatment



Three days after treatment







VILLAGE OF HARRISON HOT SPRINGS

REPORT TO COUNCIL

TO: Mayor and Council **DATE:** October 13, 2017
FROM: Community Services Manager **FILE:** 8100-20-02
SUBJECT: 2017 Magic of Christmas

ISSUE:

The Village of Harrison Hot Springs funding and organizing the annual Magic of Christmas event in partnership with other community stakeholders.

BACKGROUND:

Over the last three years, the Village of Harrison Hot Springs has been part of organizing Magic of Christmas, a special event geared at families that celebrates community, fellowship and the holiday season.

The event is organized and funded in partnership with five main stakeholders: Village of Harrison Hot Springs, District of Kent, Fraser Valley Regional Library Agassiz Branch, Agassiz-Harrison Community Services, and Seabird Island Band.

Each of the three communities takes turns hosting the event. In 2015 and 2016 Agassiz and Seabird Island hosted the event respectively. The 2017 event is scheduled to be held in the Village of Harrison Hot Springs.

The event takes place on Saturday, December 2, 2017, in Saint Alice Hall, through an in-kind donation from the Harrison Hot Springs Resort. A total of 350-400 tickets will be distributed throughout the communities.

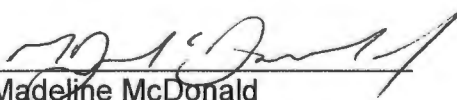
RECOMMENDATION:

THAT the Village of Harrison Hot Springs continues to support the Magic of Christmas event through a financial contribution of up to \$1,000 as supported by the 2017 financial plan.

Respectfully submitted:

REVIEWED BY:


 Chelsea Woolhouse
 Community Services Manager


 Madeline McDonald
 Chief Administrative Officer