

Engine

TREE FELL ON MACHINE AND SMASHED HOOD.

REPLACE HOOD, HOOD PIVOT FRAME, AND HOOD CATCH.

2/23/23. 188. Removed hood from machine. Took control valve loose and held in place. Removed rear pivot frame. Jumped estop switch and track speed switch. Removed broken bolt from main frame.

3/17/23. 188. Installed new rear hood pivot frame. Installed frame ,lock latch, and stops. Installed new lower pivot bolts. Installed new gas struts.

3/20/23. 188. Removed new hood from shipping pack. Inspected hood and confirmed no damage.

Installed front top cover on new hood.

3/21/23. 188. Installed hood on rear hood pivot.

3/22/23. 188. Installed rear control valve and wire harness tired wire harness in place and installed rear control valve covers. Installed remote control cannon plug in rear control frame. Installed wire harness on rocker switches and estop. Installed rear travel control handles on control valve.

Installed rear door on pivot frame. Installed hydraulic tank access cover

frame and cover on back of hood. Installed rubber baffle on inside of top access door. Installed exhaust pipe on hood.

Exhaust pipe was not fitting correctly. Made a small piece of flat stock and ovaled the holes in flat stock to take up gap

ALL PARTS RETURNS SUBJECT TO 20 PERCENT RESTOCK FE
ELECTRICAL & SPECIAL ORDERED PARTS ARE NON-RET'BLE

Amount

Continued

between exhaust pipe and hood. Painted spacer.
 3/23/23. 188. Installed hood decals. Installed warning decals.
 Installed exhaust spacer. Installed wash wand quick disconnect
 in
 rear door.
 3/30/23. 188. Installed panel and stiffening bracket on inside of
 hood.

12	1809005	NUT-SMFLGTL-.25-
1	218080001	LATCH - COMPRESS
1	2326324	DECAL - WARNING/
1	2326595	DECAL- VERMEER 4
1	235869001	SPRING-EXT. 3/4
5	240056001	SCREW-SHSS-38-16
2	251144001	SPRING - GAS ASS
3	282764001	TAPE-CC FOAM-.75
2	285088001	HINGE - DOOR
4	285784001	BALL - STUD
1	296274624	SLIDE - HOOD CAT
1	296274625	SLIDE - HOOD LOC
2	296276018	MOUNT - HEAVY DU
1	296294086	PLATE - HOOD REL
6	296300751	SCREW-HFS-.25-20
2	296300771	SCREW-HFS-.38-16
4	296300772	SCREW-HFS-.38-16
16	296300773	SCREW-HFS-.38-16
2	296300775	SCREW-HFS-.38-16
18	296300850	NUT-HEXFLGTL-.38
2	296300851	NUT-HEXFLGTL-.50
2	296300922	SCREW-HFS-.38-16

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Amount

Continued

2	296300929	SCREW-HFS-.50-13
1	296300931	SCREW-HFS-.38-16
3	296303697	FASTENER - THUMB
3	296303698	RETAINER-NYLON-B
3	296303699	RECEPTACLE - CLI
1	296306067	FRAME - HOOD PIV
1	296306072	WELDMENT - EXHAU
1	296308029	WELDMENT - REAR
1	296320699	RUBBER - RADIATO
1	296320719	PLATE - BAFFLE C
1	296320724	WELDMENT - TOP H
1	296364312	HOOD-D20X22II TI
1	296377261	DOOR - HYD TANK
1	296385047	PLATE - HOOD KNO
1	296385048	PLATE - HOOD KNO
12	373005	BOLT-CARG-.25-20
10	375010	BOLT-CARG-.38-16
1	56254001	SPACER
1	70000614	DECAL-MODEL NAVI
2	7000A576	DECAL - DANGER
1	7000B812	DECAL - WARNING
1	7000C463	DECAL - SERIES I
1	7000D581	DECAL - D20X22II
1	700IF088	DECAL - HOOD LAT
1	902402001	GROMMET-1 1/2"RU
10	LG CABLE TIE	
1	INBOUND FREIGHT & HANDLING CHARGE	

Total for segment

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Amount

Continued

EQUIPPED TO DO MORE.

Electrical

Seat Assembly R&R CMP

2/23/23 188. Removed seat from seat base

3/7/23 188. Installed new seat on seat base. Connected seat switch.

Confirmed seat switch operation.

1	296377268	SEAT ASSEMBLY
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Total for segment
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Engine

REMOVE RADIATOR.

REPLACE RADIATOR MOUNTS

REPLACE ENGINE FAN

3/1/23. 188. Drained water from radiator. Disconnected radiator

hoses and pulled radiator mounting bolts. Pulled engine fan and fan shroud. Fan shroud is broken in a few spots.

3/2/23. 188. Cleaned up fan shroud with wire wheel and welded fan shroud in place. Welded broken loop back on fan shroud. Nut for one radiator mount is

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Amount

Continued

lost. Welded new nut to inside of mount. Fit fan shroud and confirmed fit. Installed fan shroud and radiator mounts. Installed radiator on fan shroud. Installed engine fan and shroud braces.

3/2/23. 188. Removed radiator from machine. Took radiator off of radiator shroud/mount. Made repairs to shroud/mount. Welded nut to bottom of mount for bolt. Welded up fan guard. Guard was broken in a couple spots. Removed broken fan blade off engine. Picked old broken blades out of engine compartment. Installed new mounts and hardware. Installed radiator and shroud. Installed engine fan. Installed new support brackets. Radiator hoses are swollen from oil and the lower radiator hose has been rubbing. Ordered new radiator hoses for radiator.

1	235713001	WASHER-FLATSTL-
1	235723001	SCREW-HCS-.38-16
8	255048001	RADIATOR ISOLATO
3	276477001	BOLT-ELEV-.25-20
2	291550001	SPACER RADIATOR
2	294553001	MOUNT - UPPER RA
2	296300757	SCREW-HFS-.25-20
10	296300773	SCREW-HFS-.38-16
1	296306125	FAN - 19in BLOWE
1	296306369	SUPPORT - LEFT R
1	296306370	SUPPORT - RIGHT
16	613948001	WASHER-FLATWRT-

Total for segment

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Amount

Continued

Machine Display R&R CMP

4/6/23. 188. Installed new DP10 display. Confirmed display operation.

1	296365090	ASM - DP10 D20X2
1	INBOUND FREIGHT & HANDLING CHARGE	

Total for segment
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ENVIRONMENTAL FEE-SHOP SUPPLIE

Total parts	Total labor	Total misc
	WI32	Sub Total
		:

ALL PARTS RETURNS SUBJECT TO 20 PERCENT RESTOCK FE
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Amount

19,237.25

1	1	296284496	PUMP WATER
	1	FREIGHT & DROP SHIP	CHARGES
			Sub Total

ALL PARTS RETURNS SUBJECT TO 20 PERCENT RESTOCK FE
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Total Invoice
Due By:
03/29/22

6,085.84

EQUIPPED TO
DO MORE.

2	240032001	PIN-QUICK-RELEAS
1	296387479	FILTER ELEMENT -

Total for segment

Equip ID:D20X222-1238

Setup

BASIC EQUIPMENT INSPECTION - 101-Inspect Frame For Rust/Damage

Check Safety Functions And Condition Of Decals

Check All Fluid Levels

Check Condition Of All Wear Items

Check For Required/Recommended Maintenance And Kits

155 02-06-2023 Inspected machine and found some problems.

Diesel in the coolant system, radiator mounts broken, fan has only two blade on it, needs a full service, Hood is junk, leak hyd oil from

both stake down motors, leaking hyd oil thrust motor area, seat in bad shape, left joystick broken and taped together, Missing rod indicator and rear pulley plus the mount is bent. Play in the

rotation gear box slides, rack has a lot of wear in it, vise jaws are

bad. about half of the rod are not in good shape, mud pump is

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Amount

Continued

EQUIPPED TO DO MORE.™

leaking a little, missing strike alert ring, missing ant-freeze tank lid.

4/7/23. 188. Greased machine. Found a couple broken grease fittings on the rear outriggers. Used a extractor and removed old

fittings. Installed new fittings and greased pins.

3	CH356-1	RV-100 ANTI-FREE
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Total for segment
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COOLANT SYSTEM HAS DIESEL FUEL IN IT.

DRAIN AND FLUSH COOLANT SYSTEM

FILL WITH WATER LET RUN AND SEE IF FUEL IS GETTING IN THE COOLANT SYSTEM.

155 02-08-2023 Flushed out cooling system and ran still has diesel in system.

155 02-09-2023 Flushed out cooling system again and ran outside for a couple hours. Diesel came back in to cooling system.

SERVICE LABOR

1	ASSORTED METRIC HARDWARE
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Total for segment
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Amount

Continued

CLEAN RADIATOR.

3/2/23 188. Degreased radiator and let it soak. Poured degreaser inside radiator. Used hot pressure washer and cleaned radiator. Cleaned both sides and washed out inside. Inspected radiator

with a light. Radiator is clean.

3/6/23. 188. Picked engine pack up and installed new lower radiator hose.

		SERVICE LABOR
1	296284437	HOSE LOWER RADIA
1	296284438	HOSE-UPPER RADIA
1	INBOUND FREIGHT & HANDLING CHARGE	

Total for segment

RACK IS WORN WHERE CARRIAGE SLIDES RIDE.

WELD FLAT STEEL TO WORN AREA

2/28/23. 188. Removed carriage from rack. Set carriage back out of the way. Cleaned rack and prepped for welding.

Drilled holes flat steel every couple inches for plug welds. Set steel on rack and clamped it down. Tacked steel strap down. Checked that steel strap was not crooked and welded in

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Amount

Continued

place. Cleaned welds with grinder and confirmed no high spots.
 3/6/23. 188. Cleaned inside edge of rack. Marked and punched
 and drilled plug weld holes in steel. Installed steal on rack
 and clamped down tight to edge. Plug welded and stitched to
 rack. Cleaned all welds and welded seam where pieces meet.
 Installed carriage on rack and installed lower wear slides. Ran
 carriage on rack and checked for proper operation.
 3/23/23. 188. Rack gear is loose. Bolts in rack gear are
 loose.
 Took bolts out and cleaned up bolts. Bolts are pitted and some
 are bent. Installed new bolts and used blue lock tight. Torqued
 bolts down. Confirmed operation.

		SERVICE LABOR
17	4478030	SCREW-SHSC-.38-1

Total for segment
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Vise Jaws/Freeman
 Vise Dies/Grips (all) R&R CMP - 101-Vermeer Parts Manual Page
 2/23/23. 188. Ran unit and removed both vise jaws. Pins were
 frozen. Lubed up pins with penetrating oil and worked pins
 loose.
 Pulled pins and jaws. Inspected front rod roller. Roller is
 loose and hasn't been greased. Greased front rod roller.
 2/28/23. 188. Installed new vise dies. Installed new dies and

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Amount

Continued

pins in both front and rear vise. Ran unit and confirmed vise operation.

2	240032001	PIN-QUICK-RELEAS
2	296279701	JAW - 2.06 STEM
2	296279704	JAW - 2.06 STEM

Total for segment

Electrical

Rack Proximity Switch (each) R&R CMP- FRONT SLOW DOWN
2/24/23. 188. Replace missing front slow down proximity switch.
Took screws out of broken off base and installed new switch.
Installed screws and tightened down proximity switch. Front stop
proximity switch is also damaged. Took switch loose and tried to
disconnect cable. Switch end broke off in cable connector.
Pulled harness out and cut bad end off and spliced in a new
connector end. Ran harness back in and connected to new proximity
sensor. Turned unit on and confirmed that sensors are working.

2	296289831	SENSOR-PROXIMITY
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Total for segment

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Amount

Continued

Hydraulic

HYDRAULIC LEAK ON TOP OF THRUST MOTORS

2/28/23. 188. Rear thrust motor is leaking. Took tubes off motor

and removed fittings from thrust motor. Installed new orings on fittings for thrust motor and installed. Found that steel tube from thrust valve

to motor is cracked in the taper inside the nut.

Ordered new tube and installed tube. Ran unit and checked for leaks. No more oil leaking on thrust motor.

1	296306304	TUBE - .75 X .10
2	792029	ORING
1	INBOUND FREIGHT & HANDLING CHARGE	

Total for segment

Stake Down - TL

BOTH STAKEDOWN MOTORS ARE LEAKING. RESEAL MOTORS (3.5)

2/24/23. 188. Took stakedown motors off machine. Cleaned motors and marked motors. Took motors apart.

2/28/23. 188. Re sealed motors and put motors back together.

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Amount

Continued

Needle bearings for motor shafts feel out of races when disassembled.

Had to grease inside of bearings and lay needles in races.

Installed new shaft seals. Torqued hardware. Installed motors back on machine and connected stakedown augers to motors.

Installed new pins and orings on stakedowns. Connected hoses to motors and ran machine. Ran stakedowns and checked for hydraulic oil leaks.

4	163719527	DOWEL PIN - 1/2
2	236219003	SEAL KIT-HYD. MO
4	236229001	O-RING - 2-329
1	INBOUND FREIGHT & HANDLING CHARGE	

Total for segment

REPLACE MISSING ROD POSITION INDICATOR CABLE AND PULLEYS. (1)

3/9/23. 188. Replaced missing pulley for rod position cable on fuel tank. Bracket is bent and guard will not sit correctly.

Used torch to warm up steel and straightened bracket. Installed new pulley on machine and installed new pulley on rod box.

3/27/23. 188. Welded crack on rear pulley bracket where it comes up from fuel tank mount.

Ran machine and run carriage back and forth. Carriage and hose track are not contacting pulley or bracket.

3/28/23. 188. Install rod box on drill. Rod box pins are bent. Put pins in press and straightened pins out. Installed rod box

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Amount

Continued

pins.

3/29/23. Adjusted rod box. Installed new rod position cable and spring. Adjusted cable and set bulb at indicator. Ran a drill rod out and confirmed that the indicator is lined up and working correctly.

		SERVICE LABOR
1	1789013	SPRING - EXT, #7
2	1794003	PIN-HAIR-.15X2.9
1	296293961	CABLE - NCS - C
1	296293969	RD - MARKER
3	296506048	SLEEVE, ALUM., 1
2	510470001	PULLEY -TWINE
1	94207001	SCREW-SSET-8-32X
4	WIRE CONNECTOR	

Total for segment

REPLACE MISSING PAD ON TOP OF REAR ROD LOADER ARM (1)

2/23/23. 188. Chained rods up inside rod box. Removed rod box pins and pulled rod box.

2/24/23. 188. Removed rod magnets to access wear pad bolts.

Installed new wear pad on rear rod loader arm with new hardware.

Installed rod loader magnets back on rod loader arm.

3/6/23. 188. Bolt for the rear rod loader finger is loose.

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Amount

Continued

Tightened up bolt and arm will not move. Ordered new bolt from parts and installed bolt. Bolt is tight and arm moves freely.

		SERVICE LABOR
4	157923001	SCREW INSERT, PL
1	240056001	SCREW-SHSS-38-16
1	296278741	PLATE - STRIP WE
6	296278932	SCREW-SFHCS-.38-
2	296300895	NUT-HEXFLG-.38-1
2	296367784	BOLT-ELEV-.38-16

Total for segment

Engine

DIESEL LEAKING INTO COOLANT. RETURN FUEL RUN THROUGH HEAD.

REPLACE HEAD

3/7/23. 188. Took air cleaner, exhaust, and turbo off engine.

Removed fuel lines and valve cover from engine.

3/8/23. 188. Removed Injectors from engine. Number one and number two fuel injectors are stuck in cylinder head. Had to use air hammer and bar to remove injectors. Removed exhaust studs from old head. Removed rockers and rocker shaft. Removed EGR valve and tube. Removed push rods and valve stem bridges. Removed head bolts. Removed cylinder head. Removed intake and

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Amount

Continued

cleaned intake and EGR valve. Removed thermostat housing and cleaned. Cleaned gasket surfaces. Installed thermostat housing and intake on new cylinder head. Torqued down bolts. Cleaned cylinder block and put straight edge on block. Cleaned head bolt holes in block. Installed new head gasket and installed cylinder head. Installed new head bolts. Lightly oiled threads on bolts. Torqued bolts to 83ft lbs. Went over head bolts with torque wrench several times. Installed push rods and valve bridges. Installed rockers and rocker shaft. Installed fuel return lines and fuel filter. Installed exhaust manifold studs and manifold gasket. Cleaned up gasket surfaces on valve cover and engine air intake.

Cleaned out EGR cooler.

3/16/23. 188. Resealed injectors and installed injectors in head. Installed injector hold downs and torqued hold downs. Installed injector return line and seals. Installed new fuel line seals in valve cover. Installed valve cover and injector lines.

Installed egr valve and crossover tube. Installed exhaust manifold, turbo, and exhaust.

3/17/23. 188. Filled radiator with green coolant. Ran engine and got engine up to temperature. Checked for leaks. Drained engine oil and changed oil filter. Filled engine with 16qts of 15w-40 bulk oil. Changed fuel filter. Let engine run again to see if there are any leaks.

3/31/23. 188. Checked coolant level and engine oil level. Took machine outside and ran to get machine up to temp. Function tested unit and let engine run.

1 296302380 OIL FILTER

ALL PARTS RETURNS SUBJECT TO 20 PERCENT RESTOCK FE
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Amount

Continued

1	81831	FILTER FUEL TURN
4	04814-00150	O-RING
4	04814-05110	O-RING
18	1C010-03450	BOLT, CYLINDER HEAD
4	1C020-53810	SEAL (INJECTION PIPE)
5	1C020-96730	GASKET
1	1C050-03020N	CYLINDER HEAD
1	1G514-03314	GASKET, CYL. HEAD
1	1G556-99352	KIT GASKET UPPER
1	1H772-33660	GASKET, COPPER
1	1J574-17380	GASKET, INLET
4	1J864-53620	PACKING
4	50/50	ANTI FREEZE (GL)
16	15W40	ENGINE OIL (QT)
2		INBOUND FREIGHT & HANDLING CHARGE

Total for segment

Electrical

LEFT DRILL JOYSTICK IS TAPPED TOGETHER- CAN IT BE REPAIRED?
 2/24/23. 188. Took tape off joystick and
 found that the handle base is broken and the switch plate is
 broken also. Allen bolts holding down console plate are froze
 up. Ground heads off screws and removed console plates and
 joystick.

ALL PARTS RETURNS SUBJECT TO 20 PERCENT RESTOCK FE
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Amount

Continued

Removed molded inserts in console and installed new joystick.
Installed console plate with 1/4 inch bolts and nuts. Tightened
down everything. Confirmed operation.

1	296533510	JOYSTICK - SINGL
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Total for segment
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REPLACE CARRIAGE SLIDE PINS AND BUSHINGS (4.5)

3/2/23. 188. Rotation gearbox slide pins and bushings are worn.
Took hardware loose and removed front block. Slide pins came
out.

One pin was broke and threads were stuck in carriage frame.
Other pin threads were bad and threads in carriage frame were
worn. Welded on broken piece of pin and was able to build it up
and weld a nut to the pin end. Worked broken pin back and forth
and was able to get broken end out. Drilled out threads on
other side of carriage frame. Re-threaded carriage frame and
installed

new thread insert. Used torch and lanced bushings in rotation
gearbox. Cleaned up gearbox and installed new bushings
Installed pins and set gearbox on carriage. Threaded pins into
carriage
and installed front block and bolts. Torqued down hardware.

		SERVICE LABOR
4	280691001	BUSHING-SPLIT-1.
2	296281196	SLIDE ROD CARRIA

ALL PARTS RETURNS SUBJECT TO 20 PERCENT RESTOCK FE
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Amount

Continued

2	296300821	SCREW-HFS-.75-10
1	FLAP WHEEL	

Total for segment
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Hydraulic

HYDRAULIC LEAK FORM PUMP AREA

3/30/23. 188. Took unit outside and ran unit. Was running rods out of rod box and went to unthread from rod and hydraulic line from pump to torque limiter valve ruptured. Took line off and made new line. Installed new line on machine. Brought unit back in and filled hydraulic tank. Added 15qts of AW68 bulk hydraulic oil. Washed off machine and degreased engine bay.

2	10643-8-8	HYD. FITTING
2	471TC-8	1/2" HYDRAULIC H
15	HYDRAULIC OIL (QT)	

Total for segment
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Water System/Kits

CHECK WATER SYSTEM FOR LEAKS

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Amount

Continued

3/30/23. 188. Put bleach in water tank. Filled with water and run drill rod out. Turned on water system and flushed mud pump and lines. Found a leak on the pressure line from the mud pump to the ball valve. Removed hose and made new hose. Installed hose on machine. Ran unit and had a leak at the ball valve from water tank.

Took fitting loose and put new thread sealant on pipe and installed back on fitting. Turned on water and no leaks.

3/31/23. 188. Washed off unit and took machine outside. Ran machine and confirmed no leaks in water/mud system. Ran out a row

of drill rod and run mud pump.

1	10643-12-12	HYD. FITTING
1	13943-12-12	HYD. FITTING
2	471TC-12	3/4" HYDRAULIC H
1	278003001	VALVE - 1 1500

Total for segment

Rod Loader

FRONT ROD LOADER ARM IN NOT COMING OUT FAR ENOUGH TO LINE UP WITH ROD IN VISE.

4/19/23. 188. Front rod loader is not coming to the stop. Tried adjusting arm was not able to get it to sit in a good position.

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Amount

Continued

Could get it to the stop if you used a pipe wrench on the coupler. Front rod loader arm shaft and coupling are worn and allowing movement. Took bearings and front rod loader shaft out of machine. Cleaned up bearings and installed new coupler of shaft. Installed new rod loader arm shaft and set shaft and gear. Locked down front bearing on shaft. Installed rear bearing and locked down set screws. Installed coupler and turned rear rod loader arm to align the shaft and coupler splines. Installed spring pin in coupling. Loaded rod on arms and checked alignment. Adjusted rod box to help aid with rod loading on front arm from rod box. Some rods are bent and still hang up in front of rod box.

1	296269731	GEAR - SPLINED R
1	296287853	HUB - 1.25 - 14T
1	296287915	1/2 X 2 ROLL PI

Total for segment

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Amount

17,571.57

EQUIPPED TO DO MORE.