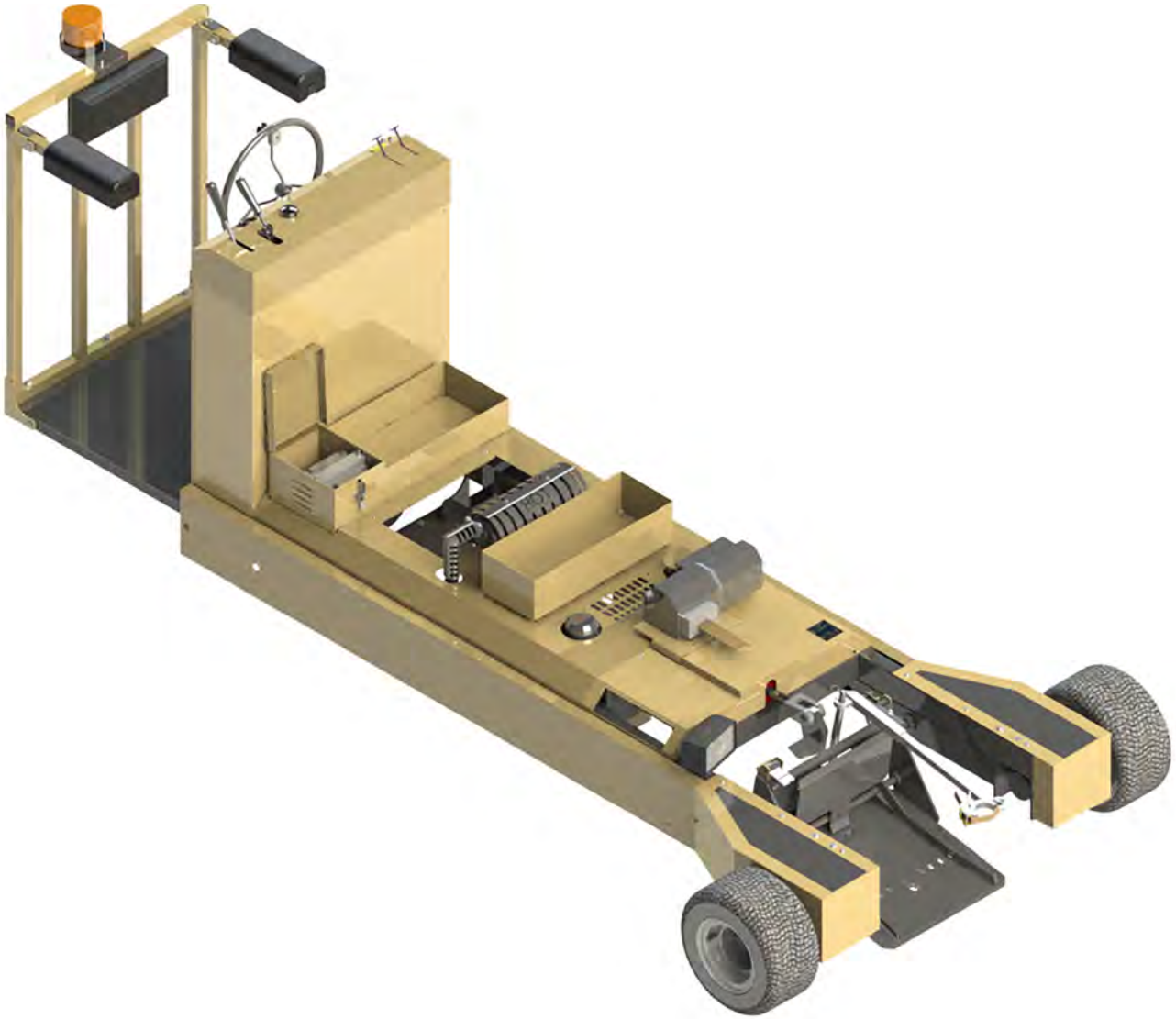
model: 747B

Technical Manual & Parts List

Revision 1
Jan 8, 2015



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Priceless Aviation Products

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IMPORTANT

It is important to read and understand the information contained within this manual before attempting to operate the machine. Priceless Aviation Products shall not be held liable for damage resulting from misuse of the information presented within, and reserves the right to change the information contained within, without prior notification.

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General Information

This manual applies to Priceless Aviation Products Model No. 747B.

To The New Owner

The purpose of this manual is to assist owners and operators in maintaining and operating the 747B. Please read it carefully; information and instructions furnished can help you achieve years of dependable performance.

> **IMPORTANT**
>
> **The engine owner's manual is included with your owner's packet which contains additional information that will not be repeated in this manual. You are urged to refer to the engine owner's manual before attempting any operation or repair of the unit.**

It is the **owner's responsibility** to make certain the operator reads and understands this manual before operating this machine. It is also the **owner's responsibility** to make certain that the operator is a qualified and physically able individual, properly trained in the operation of this equipment.

Using This Manual

General operation, adjustment and maintenance guidance is outlined for both the experienced and novice user. Operating conditions vary considerably and cannot all be addressed individually. Through experience, however, operators should find no difficulty in developing good operating skills suitable to most conditions.

Directions used in this manual, for example RIGHT or LEFT, refer to directions when standing in front of handle bar facing forward, unless otherwise stated.

Photographs and illustrations used were current at the time of printing, but subsequent production changes may cause your machine to vary slightly in detail. Priceless Aviation Products reserves the right to redesign and change the machine as deemed necessary, without notification. If a change has been made to your machine which is not reflected in this owner's manual, or the parts manual, contact Priceless Aviation Products for current information and parts.

Delivery

Check for damage upon delivery of the machine. Contact the delivery carrier and Priceless Aviation Products immediately, if damage is noticed. Keep all shipping papers for Priceless Aviation Products Service Representative.

Perform the following steps before starting the tug.

STEPS

1) Clean unit, removing dirt and debris accumulation.
2) Check the engine oil level. Refer to the Briggs & Straton Engine Manual.
3) Check the hydraulic oil levels.
4) Tighten any bolts that may have loosened and make sure all hair pins, cotter pins and clevis pins are in place.
5) Install all safety shields and review safety precautions listed in this manual.
6) Fill the gas tank with fresh gasoline. Run the tug at half speed for 5 minutes, checking operation of the steering, braking, scoop lift, and other functions.
7) Shut engine off and check for any fluid leaks and/or loose fittings. Adjust and tighten bolts and/or fittings if necessary.

Parts and Service

Use Priceless Aviation Products replacement parts only. To obtain prompt, efficient service, always provide the following information when ordering parts or requesting technical service:

- ☑ Correct part number and description, as listed in the assembly drawings located in the back of this manual.
- ☑ Correct model number.
- ☑ Correct serial number.

Parts orders placed before 12:00 pm (EST) will ship the same day, if the items are in stock.

Office Hours

Monday - Friday: 7:00 am - 5:00 pm (EST)

Contact Information

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Safety Precautions

Throughout this manual, safety related information is displayed with a signal word. The signal word designates the level of hazard. The following examples explain the level of hazard connected with each signal word.

DANGER

DANGER statements refer to immediate hazards or unsafe practices which WILL result in severe personal injury or death; including extensive equipment or property damage.

WARNING

WARNING statements refer to hazards or unsafe practices which COULD result in severe personal injury or death; including major equipment or property damage.

CAUTION

CAUTION statements refer to hazards or unsafe practices which COULD result in minor personal injury; or damage to the equipment or property.

IMPORTANT

IMPORTANT statements refer to special instructions to avoid unnecessary steps, avoid damage to parts, or to make a procedure easier. These statements are NOT USUALLY safety related.

Safety should be a constant concern for EVERYONE. ALWAYS be careful when working with this equipment. While normal safety precautions were taken in the design and manufacture of this equipment, there are some potential safety hazards.

IMPORTANT

EVERYONE involved with the operation and maintenance of this should read and follow the instructions in this manual.

Operate the equipment only as stated in this manual. Incorrect use cause damage to the equipment or personal injury.

It is the owner's responsibility to make certain that the operator reads understands this manual before operating this equipment. It is also owner's responsibility to make certain that the operator is a qualified physically able individual, properly trained in the operation of equipment.

Specific safety warning decals are located on the equipment near the immediate areas of potential hazards. These decals should not be removed or obliterated. Replace them if they become non-readable.

- ALWAYS keep safety shields and covers in place, except for servicing.
- ALWAYS maintain a safe distance from people when operating.
- ALWAYS operate equipment in daylight or with adequate working lights. Follow daily and weekly checklists, making sure hoses are tightly secured and bolts are tightened.
- ALWAYS watch and avoid holes or deep depressions.
- ALWAYS wear adequate eye protection when servicing the hydraulic system and battery.
- NEVER operate a poorly maintained machine.
- NEVER attempt high speed maneuvering, especially in crowded or congested areas.
- NEVER allow persons to operate this machine without proper instruction.
- NEVER put hands or feet under any part of the machine while it is running.
- NEVER leave machine unattended with ignition key in switch.
- NEVER refuel unit while engine is running; NEVER refuel near an open flame or near devices which can create a spark. Refuel outdoors preferably, or in well ventilated areas.
- NEVER attempt to start engine when there is a strong odor of gasoline fumes present. Locate and correct cause.
- NEVER run the engine in an enclosed area unless exhaust is vented to the outside. Exhaust gases contain carbon monoxide which is odorless and deadly poison.
- NEVER attempt to make any adjustments or repairs to the machine while the tug engine is running. Repairs or maintenance requiring engine power should be performed by trained personnel only.
- NEVER work under the machine unless it is safely supported with stands, blocks or a hoist and blocks.
- Do not touch hot parts of machine.
- Do not operate where the machine could slip or tip.
- Wet terrain can dramatically affect traction. Extreme caution should be observed to avoid loss of control due to the inability to stop.

Installation

Installing the Rider Platform

Refer to Figure 1.

1) Manually activate and lock wheel brakes.
2) Position wheel chocks against both sides of the tires. Make sure they are snug and in the center of the tire.
3) Insert the mounting tubes of the Rider Platform (1) into the receiver tubes of the main tug assembly. Line up the holes and lock into place using the bolts and washers (2) provided.

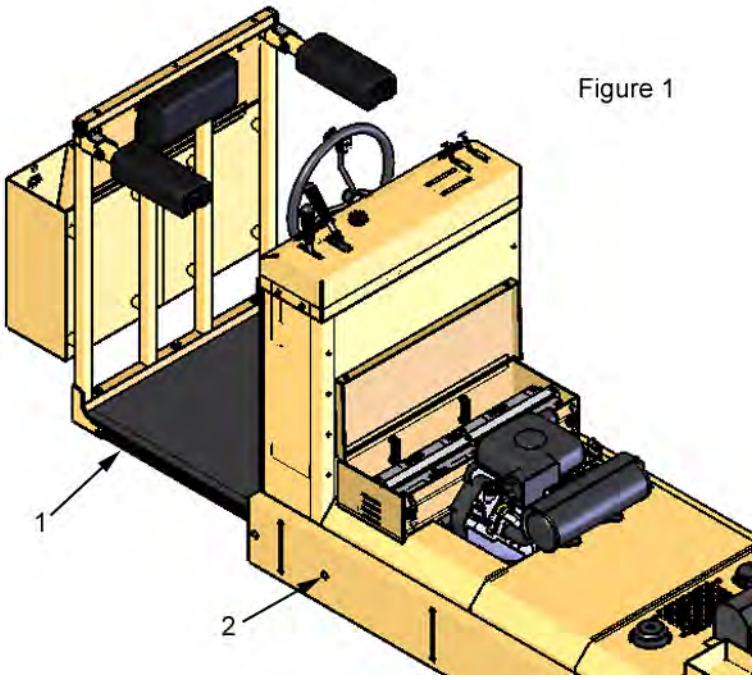


Figure 1

4) Install the Push/Pull control cables to the cable bracket.

5) Adjust the stop switch limit bolts until the cable's rod ends align with the tapped holes in the cable brackets.

6) Bolt the cables rod ends into the bracket.

7) Adjust the stop switch limit bolts again to allow proper stroke of the gas springs.

Technical Data

Specifications

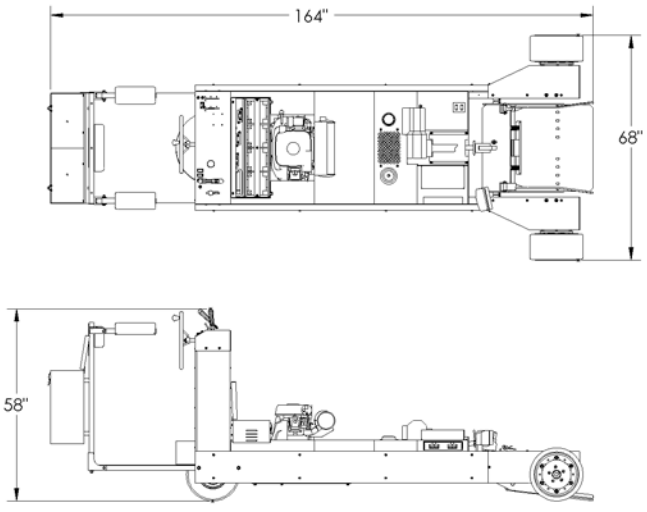
- 23hp Briggs & Straton Engine
- Steering wheel for easy turning.
- Hydraulic wheel motor drive
- Electric winch & quick-lock strap.
- Super-duty solid traction tires.
- Automatic parking brake.
- Heavy-duty alternator.
- Battery charging system
- Electric key start.
- No-skid riding platform surface.
- Electro-hydraulic nose wheel pan.
- Headlight
- Capable of moving aircraft weighing up to 25,000 lbs.

Dimensions

Approx. 156” x 69” x 59”

Options

- Forward/Reverse alarm
- Cirrus Attachment
- Amber Strobe Light
- Pintle Hitch
- 2nd Headlight
- Dual drive wheels
- Fire Extinguisher



Component Identification

Refer to Figure 5.

1. Steering Wheel
2. Rider Platform
3.Engine Hours Counter
4. Gas Tank
5. Oil Filter

7. Headlight
8. Air Filter
9. Oil Reservoir / Gauge
10. Secondary Winch Controls
11. Winch
12. Nose Gear Arm
13. Wheel Scoop
14. Forward/Reverse Lever
15. Throttle
16. Light Switch
17. Winch In/Out Switch
18. Scoop Lift Switch
19. Ignition Switch
20. Choke
21. Parking Brake

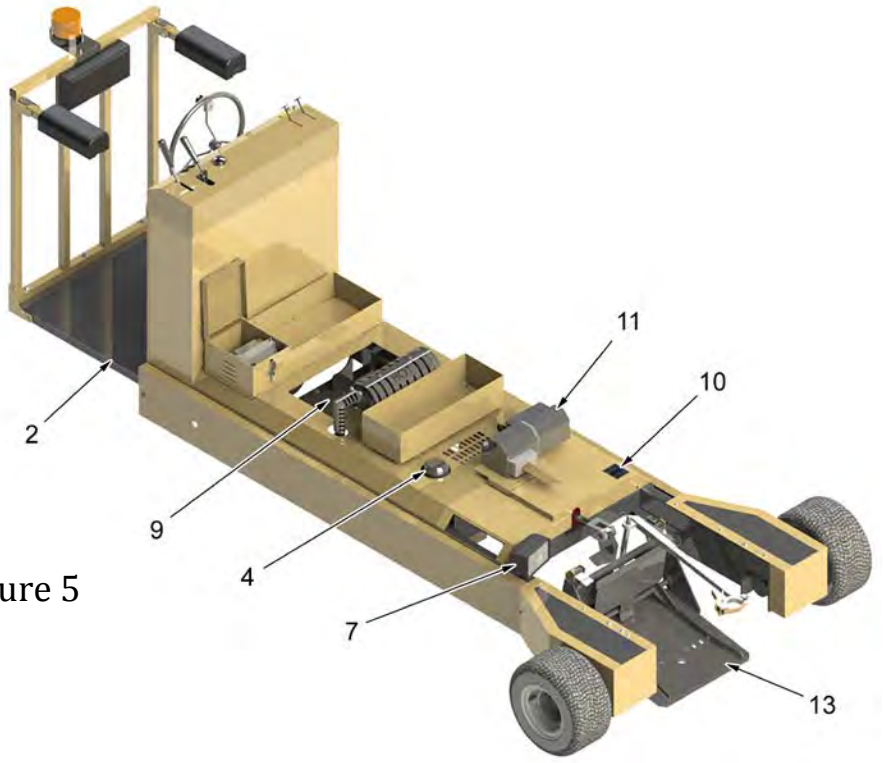
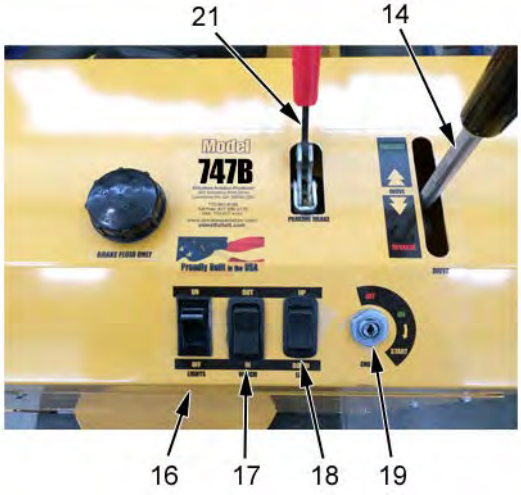


Figure 5



Operating the Tug

It is important that the operator read this manual and become familiar with all of the functions and safety concerns of this unit before operating.

Slow moving, practice maneuvers are recommended to become familiar with the speed controls and steering methods before attempting normal speed, aircraft towing operation.

DANGER

Prior to operating the tug the operator should be thoroughly familiar with the proper use and operation of the equipment, should read the manual completely and thoroughly, and should have attempted slow moving maneuvers to become familiar with the operation of the equipment before attempting normal speed operation.

Starting the Engine

1) Pull the choke all the way open.
2) Set the throttle to half way.
3) Turn the key in the On/Off switch to the Start position and hold it there while pushing the choke down.
4) Once the engine is started, return the key to the On position.
5) Set the desired throttle adjustment.

Driving the Tug

Refer to Figure 9.

The 747BFBO tug is moved forward and/or reverse by pushing or pulling the Forward/Reverse lever (1). The speed is determined by the amount of pressure applied to the Forward/Reverse lever (1).

Note: When the Forward/Reverse lever is released, it will return to the neutral position and the tug will stop.

Steering the Tug

Steering is achieved by turning the Steering Wheel (2). Turning the steering wheel clockwise will turn the tug to the right. Turning the steering wheel counter-clockwise will turn the tug to the left.

Note: The operator must be standing on the foot pedal. As a safety precaution, when the foot pedal is released, the tug's brakes will activate and the tug will stop.

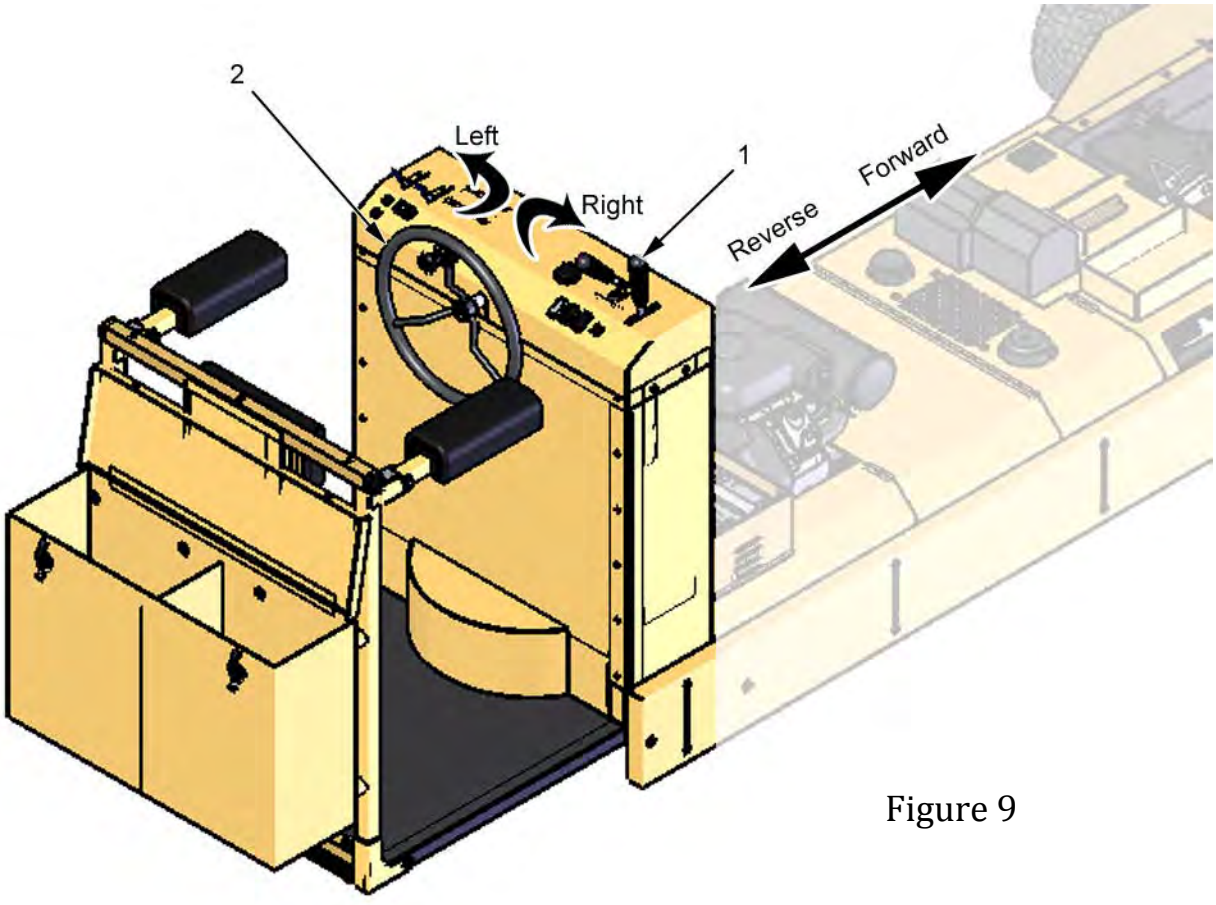


Figure 9

Loading the Nose Gear

Refer to Figures 10 and 11.

1) Perform the following steps to properly load the nose gear of an aircraft.

Start the tug engine. See “Starting the Engine” on page 8.

2) Ensure the Scoop assembly (3) is in the raised position before moving the unit.

To raise the Scoop assembly, press UP on the Lift Switch (1).

3) Position the Scoop in-line with and as close to as possible to the nose gear.
4) Press DOWN on the Lift Switch (1) to lower it to the ground.
5) Use the strap provided to secure the nose gear.
6) Press IN on the Winch Switch (2) to pull the nose gear onto the Scoop assembly.
7) Press UP on the Lift Switch (1) to raise the Scoop and nose gear.
8) Check to make sure the strap is tightly wrapped around the nose gear.

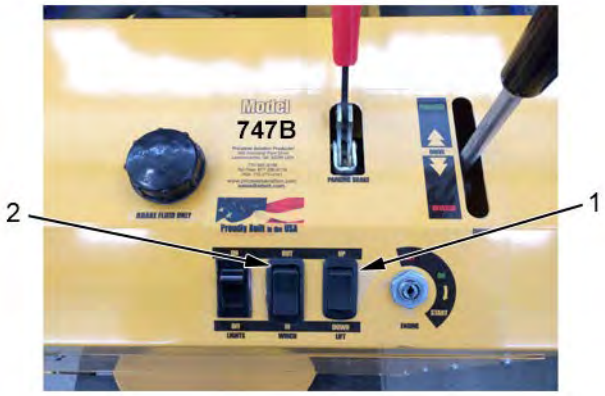


Figure 10

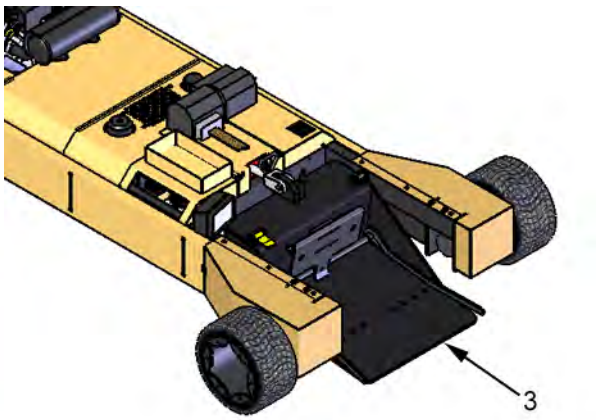


Figure 11

Maintenance

Regular maintenance is the best prevention for costly downtime or expensive, premature repair. The following pages contain suggested maintenance information and schedules which the operator should follow.

Remain alert for unusual noises. They could be signaling a problem. Visually inspect the machine for any abnormal wear or damage. A good time to detect potential problems is while performing scheduled maintenance service. Correcting the problem as quickly as possible is the best insurance.

Keep your machine clean, remove heavy deposits of trash and clippings, they can cause engine overheating as well as excessive belt wear. Clear away heavy build-up of grease, oil and dirt, especially in the area of reservoir oil and engine combustion air; minute dust particle are abrasive to close-tolerance engine and hydraulic assemblies.

Some repairs require the assistance of a trained service mechanic and should not be attempted by unskilled personnel. Consult Priceless Aviation Products when assistance is needed

IMPORTANT

Read and observe safety warnings in front of manual.

WARNING

Unless specifically required, DO NOT have engine running when servicing or making adjustments to tug. Repairs or maintenance requiring engine power should be performed by trained personnel only.

WARNING

To prevent carbon monoxide poisoning, be sure proper ventilation is available when engine must be operated in an enclosed area.

Maintenance Schedule

NOTES:

1. Initial oil change is after 5 hours of operation. Thereafter, change oil after every 100 hours operation. Change more often under dusty or dirty conditions and during hot weather periods.
2. Torque initially and after first 2 hours of operation.
3. Change engine oil filter per the engine manufacturer's recommendations. Refer to Engine Owner's Manual.

SERVICE AT INTERVALS INDICATED	WEEKLY OR 50 HRS	MONTHLY OR 100 HRS	ANNUALLY OR 300 HRS
Visually inspect unit (a)	Before each use.		
Visually inspect tires (a)	Before each use.		
Check oil level	Before each use.		
Check fuel level (a)	Before each use.		
Change engine oil filter			200 hours
Change engine oil and filter (a)	After first 20 hours of operation		
Check battery connection (a)	x		
Replace air cleaner element		x	
Check the pressure with a gauge (a)		x	
Tighten lug nuts on wheels		x	
Check hydraulic fluid level (a)		x	
Clean engine exterior (b)		x	
Clean and recap spark plugs (b)		x	
Check fuel lines and hydraulic lines		x	
Change fuel filter (a)		x	
Change hydraulic filter and fluid			x
Apply Grease To Fittings		x	

REFERENCES:
a. Refer to this Owner's Manual
b. Refer to Engine Owner's Manual

NOTE: After completing maintenance cycle (500 hours), repeat cycle

WARNING

Particular attention must be given to tightening the drive wheel lug nuts and wheel motor nuts. Failure to correctly torque these items may result in the loss of a wheel, which can cause serious damage or personal injury.

Torque Values

Torque values given below:

	Ft.-lbs.	Nm
Wheel (lug) nuts	75-80	88.14-101.7

It is recommended that these be checked after the first 2 hours of operation, initially and every 50 hours following removal for repair or replacement.

For engine torque values, see engine owner's manual.

Tire Specifications

The main drive tires are solid filled and require no air pressure.

The two steering tires are air filled and it is important that both tires be inflated to the exact same pressure. The recommended pressure for these tires is 55 psi.

Electric System

The 747B is equipped with (4) 12 volt batteries. They provide 925 cranking amps.

WARNING

Disconnect the batteries when servicing or performing any type of repairs to the tug. Risk of electric shock is present when batteries are connected.

WARNING

If the battery casings show signs of damage or if any of the internal fluids of the batteries are visible, replace battery immediately.

Follow battery manufacturer's maintenance, safety, storing and charging specifications.

Common circuit failures are usually caused by shorting, corroded or dirty terminals, loose connections, defective wire insulation or broken wires. Switches, solenoids and ignition components may also fail, causing a shorted or open circuit.

Before attempting any failure diagnosis of the electrical system, use a test light or voltmeter to check the battery voltage. If the battery voltage is satisfactory, check the cleanliness and tightness of the terminals and ground connections. A general understanding of electrical servicing and use of basic test equipment is necessary for troubleshooting and repair.

Fuel System

WARNING

Observe usual fuel handling precautions; do not smoke while refueling, do not fill tank with engine running or while engine is hot; allow engine to cool before storing machine inside a building, keep fuel away from open flame or spark and store machine away from open flame or spark if there is fuel in the tank. Read and observe safety precautions at front of this manual.

Use regular unleaded gasoline with an octane rating of 87 or 100LL aviation fuel.

Hydraulic Systems

There are two separate hydraulic systems on the 747B. One provides power to the drive wheels. The other provides the lifting of the Scoop assembly and nose gear.

IMPORTANT

These two systems use two unique types of fluids.

The hydraulic system that powers the wheels uses 20W50 Motor Oil.

The hydraulic system that powers the Scoop assembly uses Dextron III Automatic Transmission Fluid.

IMPORTANT

Hydraulic fluid escaping under pressure can penetrate skin. Hydraulic fluid may cause infection in a minor cut or opening in the skin. If exposed to hydraulic fluid, see a doctor at once.

Before applying pressure to hydraulic system, make sure all connections are tight and all hoses and lines are in good condition. To find a leak under pressure, use a piece of cardboard or wood — never use your hands. Relieve all pressure in the system before disconnecting or working on hydraulic lines.

Check the fluid level in hydraulic system after every 100 hours of operation or monthly, whichever occurs first. Check more often if system appears to be leaking or otherwise malfunctioning. Fluid level should be approximately 1” below top of the reservoir.
Refer to Figure 12.
In the drive system reservoir (1) use only 20W50 Motor Oil
In the scoop lift system reservoir (2) use only Dextron III Automatic Transmission Fluid.

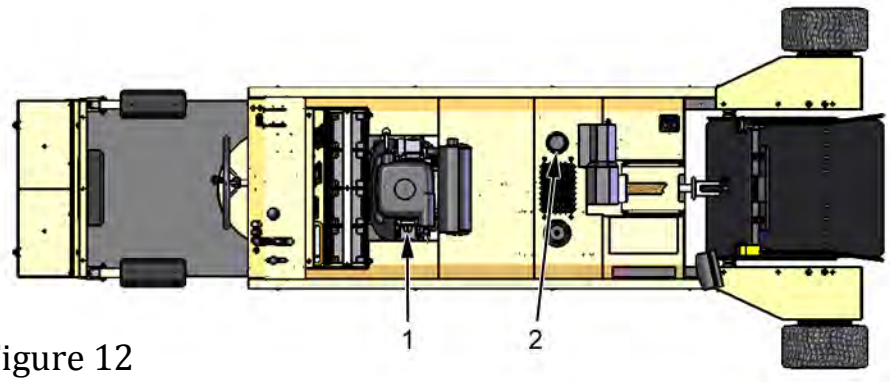


Figure 12

Engine Oil & Filter

Check engine oil daily and after every 4 hours of operation. Unit must be setting level when checking oil. Refer to engine manual and maintenance schedule for oil recommendation and capacities. Use 5W30 Motor oil.

Change the engine oil and filter after the first 5 hours of operation, per the engine manufacturer's recommendations after that. If tug is being operated in extremely dirty conditions, then it is recommended oil being changed more frequently.

General Engine Maintenance

Detailed instructions and recommendations for break-in and regular maintenance are specified in the respective Engine Owner's manual. Please refer to this manual for engine servicing, lubricating oil levels with quality and viscosity recommendations, bolt torques, etc. The engine warranty is backed by engine manufacturer. Special attention should be paid to applicable data which will not be duplicated here.

V-Belt Maintenance

Most belts stretch after the first few hours of operation. It's best to check the tension frequently at first. Inspect the tension after eight hours of operation, and then check it again at 150 hours, thereafter twice a month. The rule of thumb for tension is between one-quarter and one half of an inch of deflection when firmly depressed with your thumb at mid span. Too much tension will impose excessive load; too little causes slippage and excessive belt wear.

Belts that squeal during acceleration or when operating at full load usually have slippage, never add a lubricant to the belts. Squealing merely indicates that the belts need to be tightened.

Preventive maintenance tips include regular inspection for nicks, cuts, abrasion, and glazing. If you find problems replace the belts. The belts must be replaced in matched sets. Never replace only one belt.

Checking brakes

To check the brake tension:

Chalk the wheels and look under the rider platform to see if there is a minimum of ¾ “gap between brake pedal flange and platform. If you ever step off the platform and hear metal taping; the brakes need adjusting.

Adjusting the brakes

Chalk the wheels and loosen the nuts at point A and B on both sides in order to adjust the brake tension.

Adjust the cabling until there is a minimum of 3/4in gap between the brake pedal flange and the platform. Once adjusted, retighten nuts at point A and B on both sides.

Storage

When storing the machine for a period of time, perform the following steps to prevent damage.

1) Remove all dirt and debris from machine. Clean machine and touch up all scratches with Priceless Plane Products spray paint.
2) Check thoroughly for any worn or damaged parts that need replacing and order them from your dealer.
3) Check hydraulic fluid level. Add fluid if necessary. Change oil and filter if not done in last 500 hours.
4) Block tug up so weight is off tires. Do not deflate tires.
5) Protect batteries from freezing temperatures. Occasionally recharging batteries during storage will extend battery life.
6) Perform separate engine preparation as listed below.
7) Store in a clean, dry place.

Preparing the Engine for Storage

Perform the following steps when engine is to be unused for a long period of time.

1) Run engine for a minimum of 15 minutes.
2) Drain oil from crankcase while engine is still warm.
3) Refill with fresh oil of proper viscosity. (5W30)
4) Drain fuel tank and run the engine until it stops from lack of fuel. Gasoline evaporates if left in carburetor for long periods, forming gum and varnish deposits in carburetor. These deposits will cause engine flooding and loss of power.
5) Remove and replace fuel filter if not done in previous 100 hours.
6) Clean exterior surface of engine. Spread a light film of oil over any exposed metal surfaces of engine that are subject to corrosion.
7) Clean dirt and debris from cylinders and fins, blower housing and muffler.
8) Check oil filler cap and fuel tank cap to make certain they are securely in place.

Operating the Tug after Storage

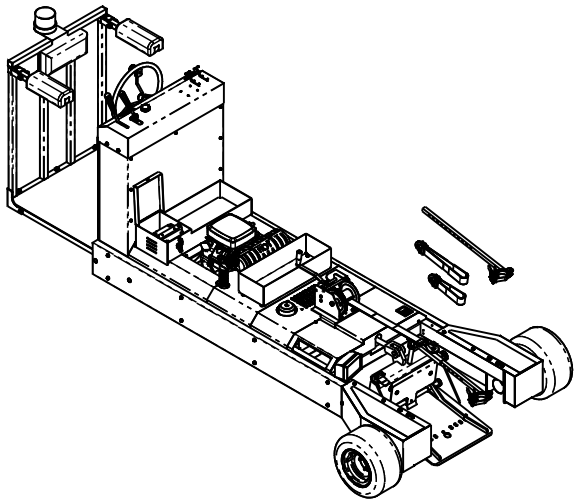
Perform the following steps before starting the machine after storage for a long period of time.

1) Clean machine, removing oil and dirt accumulation.
2) Check engine oil and hydraulic fluid levels.
3) Fill fuel tank with fresh gasoline. Run machine at half speed for 5 minutes, checking operation of steering control lever. Stop engine and check for oil leaks, loose fittings and so forth.
4) Tighten any bolts that may have loosened and make sure all cotter pins and clevis pins are in place.
5) Install all safety shields and review safety precautions listed in this manual.
6) Check and inflate steering tires to 55 psi.

Assembly Drawings & Parts Lists

The materials contained herein are confidential and proprietary information of Priceless Aviation. In addition to any confidentiality and non-disclosure obligations that currently exist between you and Priceless Aviation, your use of these materials serves as an acknowledgment of the confidential and proprietary nature of these materials and your duty not to make any unauthorized use or disclosure of these materials.

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
123	2	SSHC98040	10-32X5/8 HEX HD
124	22	SSSC01064	1/4-20 X 1 SOC CAP
125	8	SSSC01128	1/4-20 X 2 SOC CAP
126	4	SSSC01160	1/4-20 X 2-1/2 SOC CAP
127	4	SSSC10080	5/16-18 X 1-1/4 SOC CAP
128	8	SSSC45176	SCREW,SOCKET CAP
129	2	SSSC98040	10-32 X 5/8 SOC CAP
130	43	WWF1/4	WASHER, FLAT, 1/4", COM
131	3	WWF1/4SS	WASHER, FLAT, 1/4",SS
132	12	WWF3/8	WASHER,FLAT,3/8 OR 10MM
133	12	WWF5/16	WASHER,FLAT,5/16
134	AR	WWF8	WASHER, FLAT, #8
135	9	WWFS1/2	WASHER,FLAT,SAE,1/2
136	59	WWFS1/4	WASHER,FLAT,SAE,1/4
137	AR	WWFS3/8	WASHER,FLAT,SAE,3/8
138	2	WWFS5/16	WASHER,FLAT,SAE,5/16
139	39	WWFS10	WASHER, FLAT, #10, SAE
140	17	WWL1/2	1/2 LOCK WASHER
141	97	WWL1/4	WASHER,LOCK,1/4
142	3	WWL1/4S	WASHER,LOCK,1/4,SS
143	4	WWL3/8	WASHER, LOCK, 3/8
144	2	WWL3/8S	WASHER, LOCK, 3/8,S/S
145	14	WWL5/16	WASHER, LOCK, 5/16
146	AR	WWL8	WASHER,LOCK,#8
147	41	WWL10	WASHER,LOCK,#10



NOTE: FOR VARIOUS "AS REQUIRED" OPTIONS SEE SHEET 5

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
62	4	CCCL24F	COLLAR,CLAMP,1.5 BORE
63	AR	EE2W815L	LIMIT SWITCH,MINIATURE
64	3	EE24M3281	SWITCH, ROCKER,ON-OFF-ON
65	1	EE900	LIGHT,FLOOD,WATERPROOF
66	1	EE17195442	PANEL PLUG
67	1	FSF11N06ANCD06	SUCTION FILTER, .25"
68	1	HYFR1030F6T	VALVE,FLOW CONTROL
69	1	HYG03C6D1251	SOLENOID VALVE, 12V
70	1	HYHGM15E3051	HYD WHEEL MOTOR,4514 IP
71	1	HYHGM15E3055	HYD WHEEL MOTOR,4514 IP
72	1	MM4F662	FLOW DIVIDER, 10-20GPM
73	1	MM12U381VHM	WINCH,3000 LB,MOD
74	14"	MM100-1/8	DOOR TRIM-BLACK
75	1	MM3042T950	CLAMPING U-BOLT,1-3/8OD
76	50.5"	MM6970T53	TAPE, ANTISLIP 6"
77	AR	MMWM112A	CHARGER,BATTERY TENDER
78	1	NBHH175	FUEL LINE,1/4" ID
79	2	NNE1/2-13	NUT,NYLOCK,1/2-13
80	11	NNE1/4-20	NUT,ELASTIC LOCK,1/4-20
81	AR	NNE3/8-16	NUT, ELASTIC 3/8-16
82	8	NNH1/2-13	NUT,HEX,1/2-13
83	4	NNH1/2-20GR8	NUT,HEX,1/2-20,GRADE 8
84	4	NNH3/8-16	NUT,HEX,3/8-16
85	8	NNH5/16-18	5/16-18 HEX NUT
86	4	NNK5/16-18	NUT,KEP,5/16-18
87	1	PPP204	HUB,WHEEL,4-BOLT
88	1	PPP3011	FUEL FILTER,
89	1	PPP4553BB5072B	CABLE,PUSH-PULL,72"L
90	AR	PPP15830M	OIL COOLER W/12V FAN,MOD
91	2	PPP30250	TIRE&WHEEL ASSY,18.X8.5
92	1	PPP468855A	CARBON CANISTER,400CC
93	1	PPP483788	CAP, FUEL
94	18	PPP611016	NUT,LUG,1/2-20
95	1	PPPLAB2	LABEL,WINCH STRAP WARNING
96	1	PPPLAB3	LABEL,HYD OIL TANK
97	1	PPPMANUAL	CD,MANUALS AND VIDEOS
98	2	SSBC01032S	1/4-20 X 1/2 BUT CAP SC
99	58	SSHC01032	1/4-20 X 1/2 HHCS
100	1	SSHC01032S	1/4-20 X 1/2 HHCS,SS
101	1	SSHC01048	1/4-20 X 3/4 HEX CAP
102	4	SSHC01056	1/4-20 X 7/8 HEX CAP
103	5	SSHC01064	1/4-20 X 1 HHCS
104	4	SSHC01080	1/4-20 X 1-1/4 HHCS
105	2	SSHC01112	HEX HEAD BOLT 1/4-20X1.75
106	3	SSHC01128	1/4-20 X 2 HEX CAP
107	2	SSHC01160	1/4-20 X 2-1/2 HHCS
108	12	SSHC05032	1/4-28 X 1/2 HEX CAP
109	4	SSHC10032	5/16-18 X 1/2 HHCS
110	6	SSHC10048	5/16-18 X 3/4 HHCS
111	4	SSHC10064	5/16-18 X 1 HHCS
112	4	SSHC25048	3/8-16X3/4,HEX CAP
113	4	SSHC25064	3/8-16X1,HEX CAP
114	2	SSHC25064S	3/8-16X1,HEX CAP,S/S
115	AR	SSHC25128	3/8-16 X 2 HEX CAP
116	1	SSHC45064	1/2-13X1 HEX CAP
117	2	SSHC45096	1/2-13X1-1/2 HEX CAP
118	1	SSHC45144	1/2-13X2 HEX CAP
119	1	SSHC45160	1/2-13X2-1/2 HEX CAP
120	2	SSHC46080F	1/2-20X1-1/4 HEX CAP
121	AR	SSHC90032	#8-32 X 1/2 HEX CAP
122	37	SSHC98024	10-32 X 3/8 HEX CAP

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	757BFBO-HYD	HYDRAULIC LINE ROUTING
2	1	757FBO-LAB2	LABEL,FWD CONTROL BOX
3	1	757FBO-WD	DIAGRAM,WIRING,757FBO
4	1	757GT	5 GAL FUEL TANK, POLYMER
5	2	757KBH	DISC BRAKE WITH CALIPER
6	1	1000114	ROD,STR,1.5DIAX34.0L
7	1	1000135	CYLINDER,HYDRUALIC,3"BORE
8	1	1000191	ARM ASSY,PLANE MOVER
9	1	1000192	CABLE PACKAGE,757
10	AR	1000312	PINTLE HITCH
11	1	1000907	FILTER MOUNT
12	1	1002599	ARM ASSY,4" LONGER
13	1	1002778	TURNING WHEEL ASM
14	16	1002908	GUIDE BLOCK, WIRE/HOSE
15	1	1002914	STEERING/CONTROL MAST
16	1	1002920	COVER,PUMP
17	1	1002925	COVER, TANKS W OIL CLR
18	1	1002928	COVER, ENGINE LEFT SIDE
19	1	1002929	COVER, ENGINE RIGHT SIDE
20	1	1002931	PANEL,SIDE COVER LEFT
21	1	1002932	PANEL,SIDE COVER RIGHT
22	1	1002934	FRAME,TUG, 757BFBO
23	1	1002938	COVER, BATTERY W TRAY
24	1	1002949	PLATE,WINCH,MOUNT
25	1	1002959	STEERING LINKAGE
26	1	1002971	WHEEL COVER WLMT
27	2	1002985	BRAKE CALIPER BRACKET
28	1	1002986	PLATFORM ASM
29	2	1002988	PLATE, FRAME CONNECTOR
30	8	1002991	COVER MOUNT BLOCK
31	2	1002998	MAST STABILIZER
32	1	1003006	FUEL TANK SUPPORT
33	1	1003017	FENDER,LEFT,WLDMT
34	1	1003018	FENDER,RIGHT,WLDMT
35	1	1003028	MTG BRKT,RELIEF VALVE
36	1	1003029	CRANK SPINDLE,WLDMT
37	1	1003033	GROUND ROD
38	1	1003044	HYD TANK ASSY
39	1	1003066	CAP GUARD
40	4	1003081	SPACER,TOOL BOX
41	1	1003082	TOOL BOX
42	1	1003085	EXHAUST BRACKET
43	AR	1003092	KIT, WARNING LIGHT
44	1	1003099	CARB CANISTER MNT/SHIELD
45	1	1003103	HEAT SHIELD, FRONT
46	1	1003104	SCOOP,747B PLANE MOVER
47	1	1003106	CLEVIS, MNT,REVERSABLE
48	1	1003107	EXHAUST PIPE,WLDMT
49	2	1003114	WHEEL ADAPTER ASSY
50	1	1003115	MOTOR-PUMP ASSEM,23HP
51	1	1003116	HEAT SHIELD, REAR
52	1	1003124	EXHAUST EXTENSION SHIELD,
53	AR	1003128	ELECTRIC WINCH ASSY,12V
54	1	1003179	BATTERY BOX ASSY,
55	AR	1003296	MOTOR-PUMP ASSY,CONT. USE
56	1	1003297	COVER
57	1	1003348	CLAMP STRAP
58	1	1359311	WASHERS, VIB DAM
59	1	03010842	CARTRIDGE,RELIEF VALVE
60	1	03037778	MANIFOLD,RELIEF VALVE
61	16	AAF3/16	CLAMP, BLACK PLASTIC

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2013

J	ZDM	9/25	RB	RB
I	ZDM	8/28	RB	RB
NO	ECR NO	DATE	DR	CK

SHEET 1 OF 5

FINISH	DEFAULTS
PLAIN/CLEAN	COUNTERSINKS:
BURR BENCH	
BLACKOXIDE	
HEAT TREAT	
SAND BLAST	
BUFF	
PAINT	
CLEAR CHROMATE	
TIMESAVE	
OIL	
Weld	

ATLANTA ATTACHMENT COMPANY

NAME	AIRCRAFT TUG,HD CRADLE,
2nd DES.	HYD. MTRS,BRIGGS
MATERIAL	NOTED
ASSEMBLY	747B
PART NO.	747B
DES. BY	Richard Brock
DR. BY	RICH BROCK
CK. BY	-
SCALE	1:24
DATE	12/23/2013
DWG SIZE	C
WEIGHT	
DRAWING NO.	9005360
REV	2

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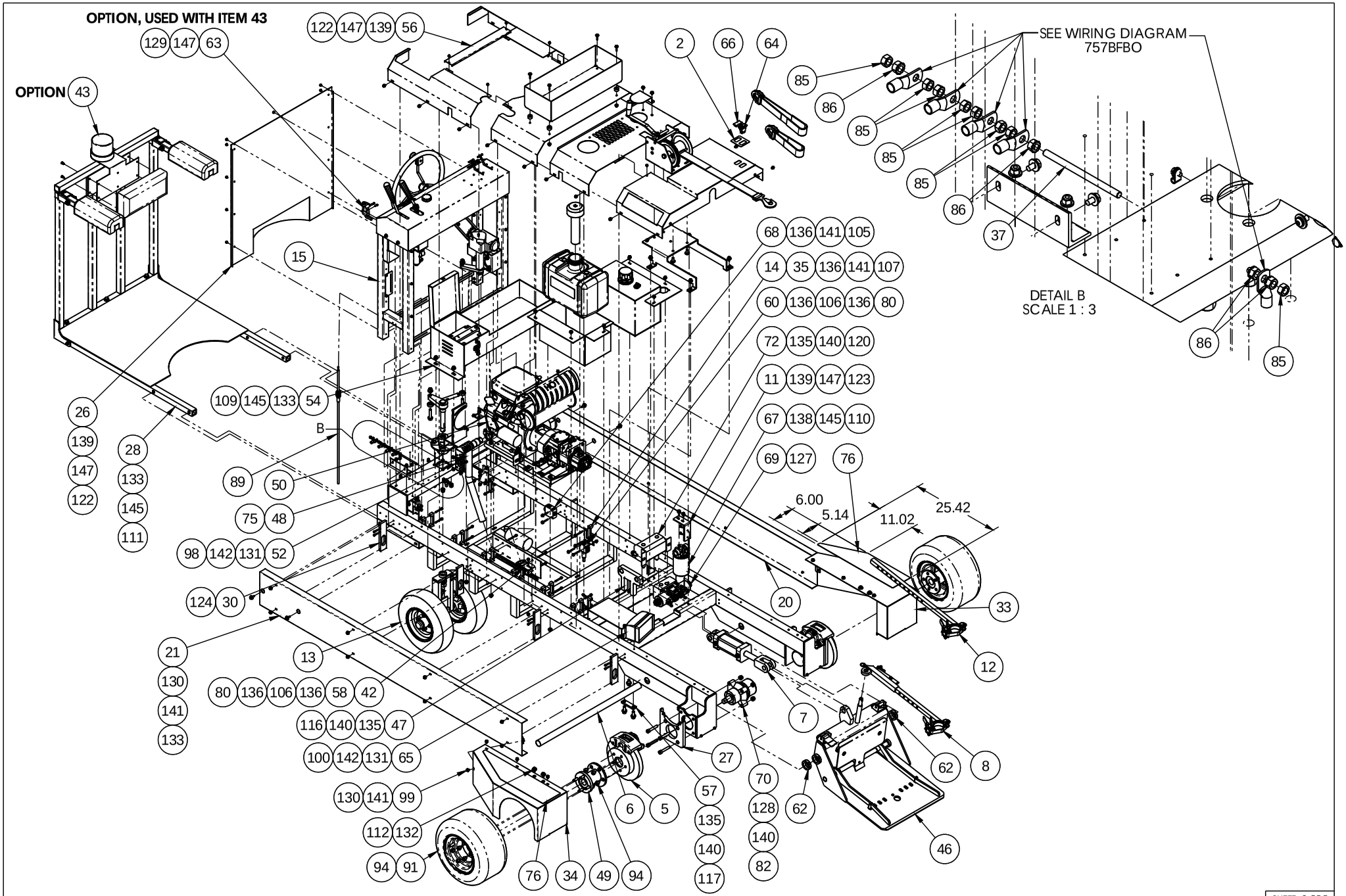

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2013

FINISH	DEFAULTS
PLAIN/CLEAN	COUNTERSINKS: .02
BURR BENCH	
BLACKOXIDE	
HEAT TREAT	
SAND BLAST	
BUFF	
PAINT	
CLEAR CHROMATE	
TIMESAVE	
OIL	
Weld	

ATLANTA ATTACHMENT COMPANY

NAME	AIRCRAFT TUG,HD CRADLE,
2nd DES.	HYD. MTRS,BRIGGS
MATERIAL	NOTED
ASSEMBLY	747B
PART NO.	747B
DES. BY	Richard Brock
DR. BY	RICH BROCK
CK. BY	-
DRAWING NO.	9005360
REV	2
SCALE	1:15
DATE:	12/23/2013
DWG SIZE:	C
WEIGHT	

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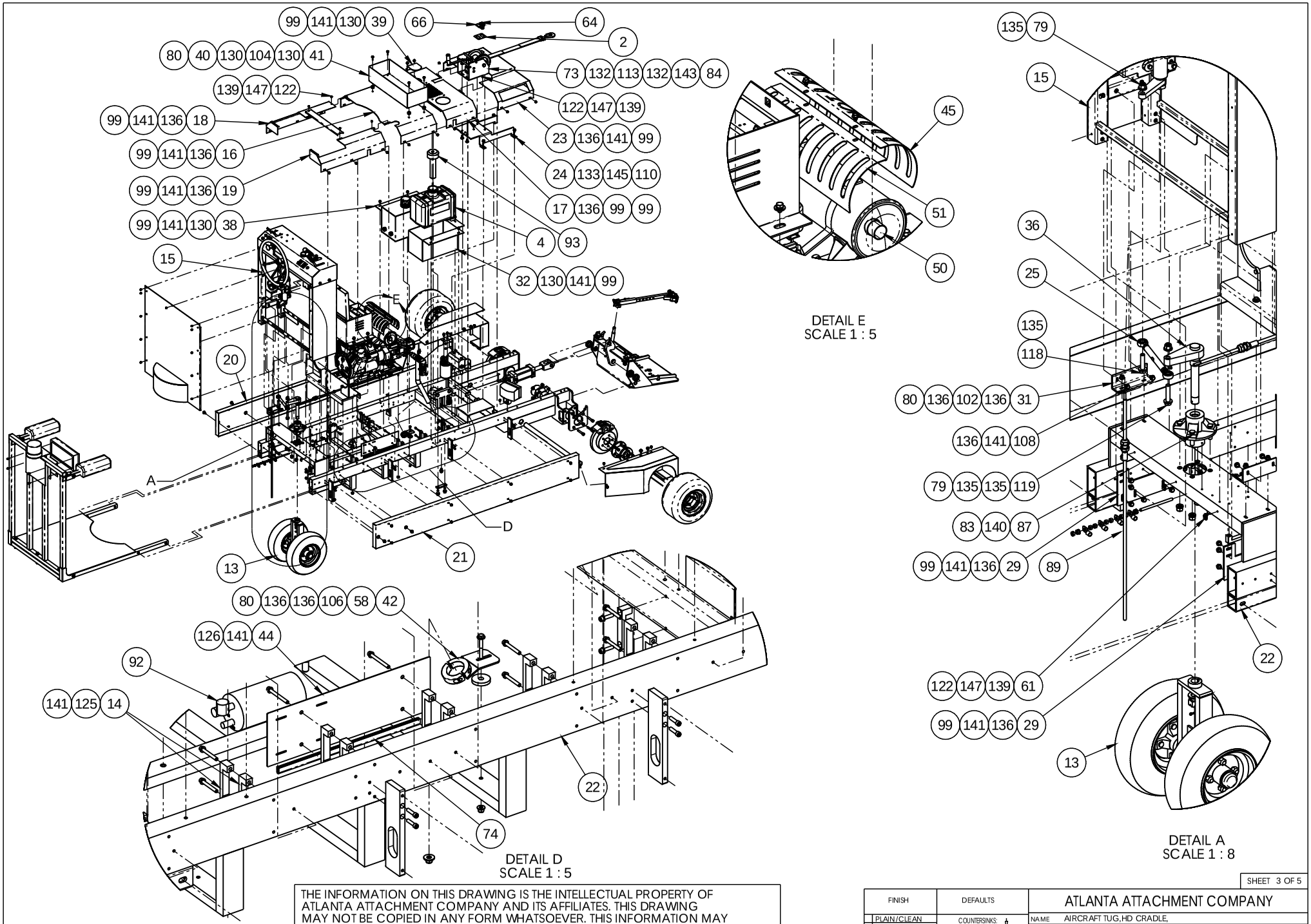

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2013

FINISH	DEFAULTS
PLAIN/CLEAN	COUNTERSINKS: .02
BURR BENCH	
BLACKOXIDE	
HEAT TREAT	
SAND BLAST	
BUFF	
PAINT	
CLEAR CHROMATE	
TIMESAVE	
OIL	
Weld	

ATLANTA ATTACHMENT COMPANY

NAME	AIRCRAFT TUG,HD CRADLE,
2nd DES.	HYD. MTRS,BRIGGS
MATERIAL	NOTED
ASSEMBLY	747B
PART NO.	747B
DES. BY	Richard Brock
DR. BY	RICH BROCK
CK. BY	-
DRAWING NO.	9005360
REV	2
SCALE	1:22
DATE:	12/23/2013
DWG SIZE:	C
WEIGHT	

SHEET 3 OF 5

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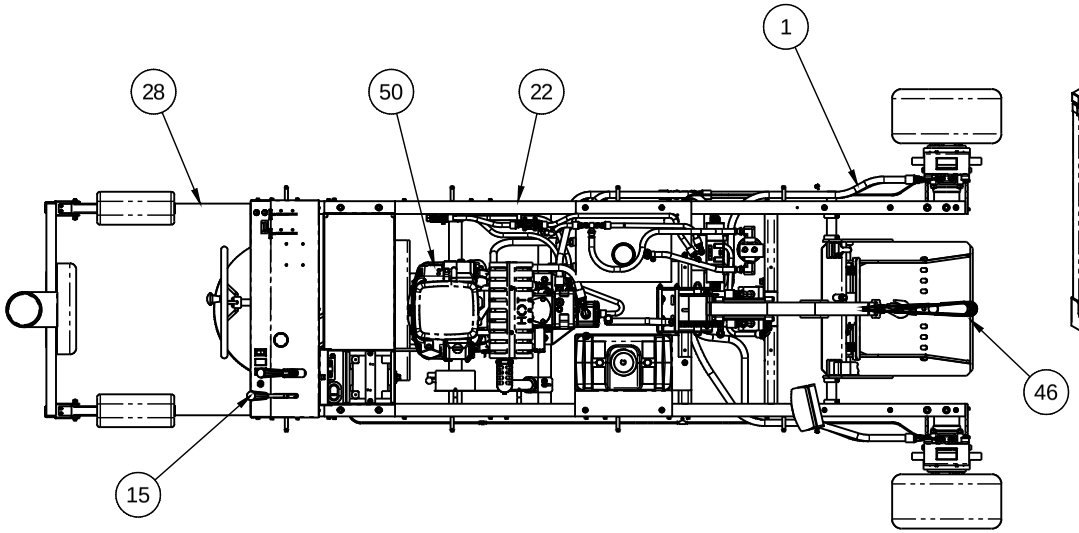

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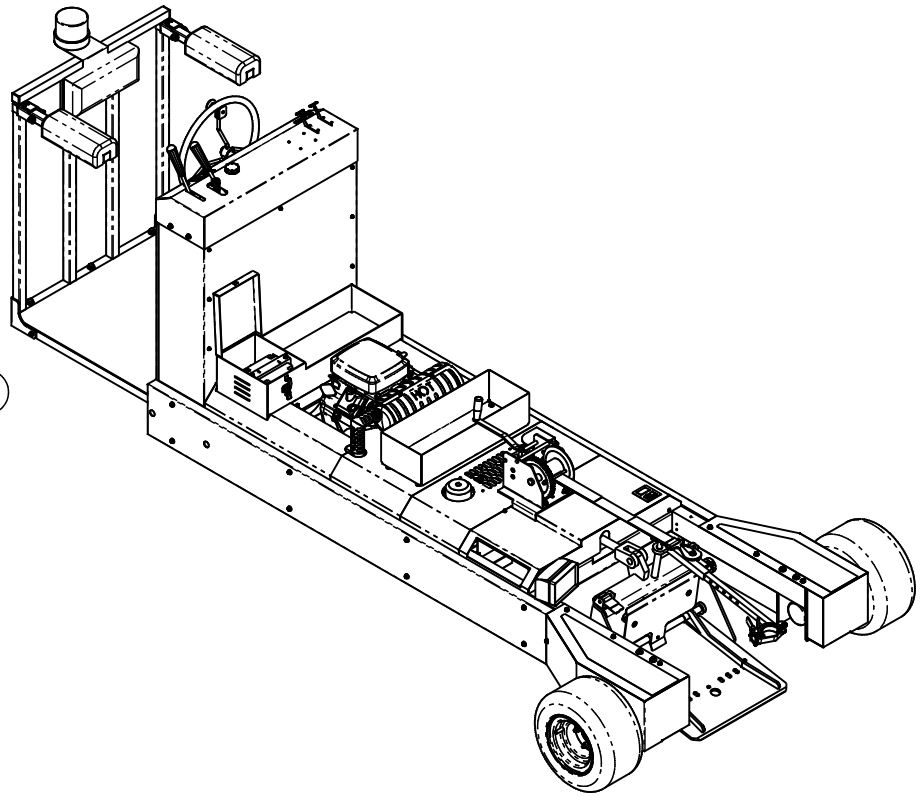

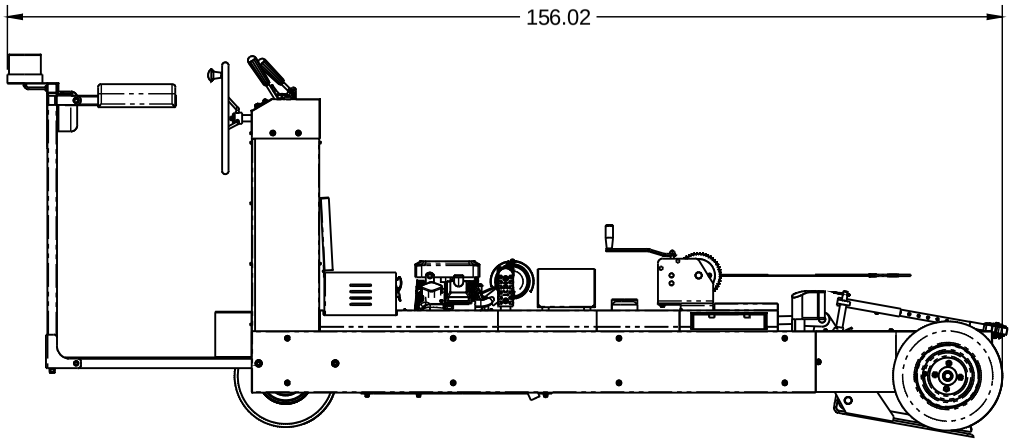

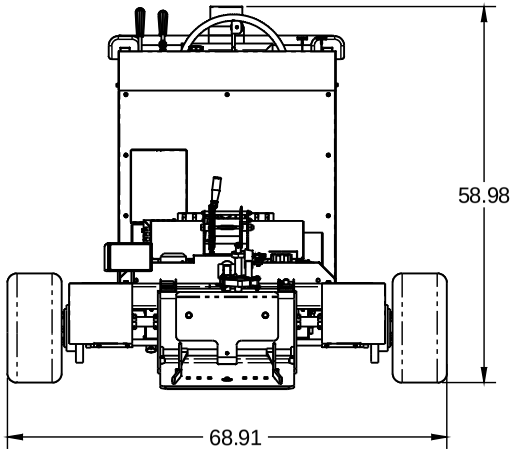

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2013

FINISH	DEFAULTS
PLAIN/CLEAN	COUNTERSINKS: .02
BURR BENCH	
BLACKOXIDE	
HEAT TREAT	
SAND BLAST	
BUFF	
PAINT	
CLEAR CHROMATE	
TIMESAVE	
OIL	
Weld	

ATLANTA ATTACHMENT COMPANY

NAME	AIRCRAFT TUG,HD CRADLE,
2nd DES.	HYD. MTRS,BRIGGS
MATERIAL	NOTED
ASSEMBLY	747B
PART NO.	747B
DES. BY	Richard Brock
DR. BY	RICH BROCK
CK. BY	-
DRAWING NO.	9005360
REV	2
SCALE	1:15
DATE:	12/23/2013
DWG SIZE:	C WEIGHT

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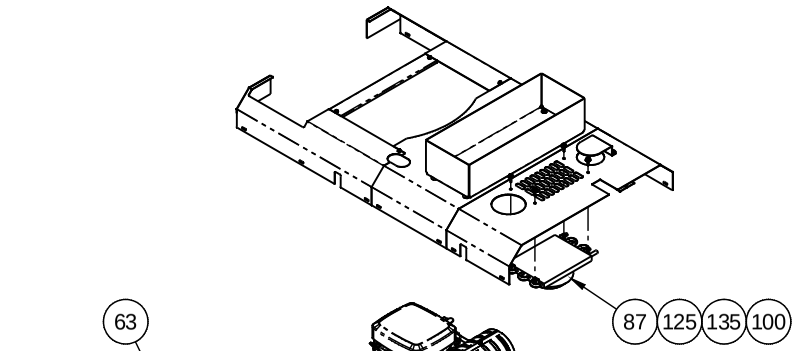
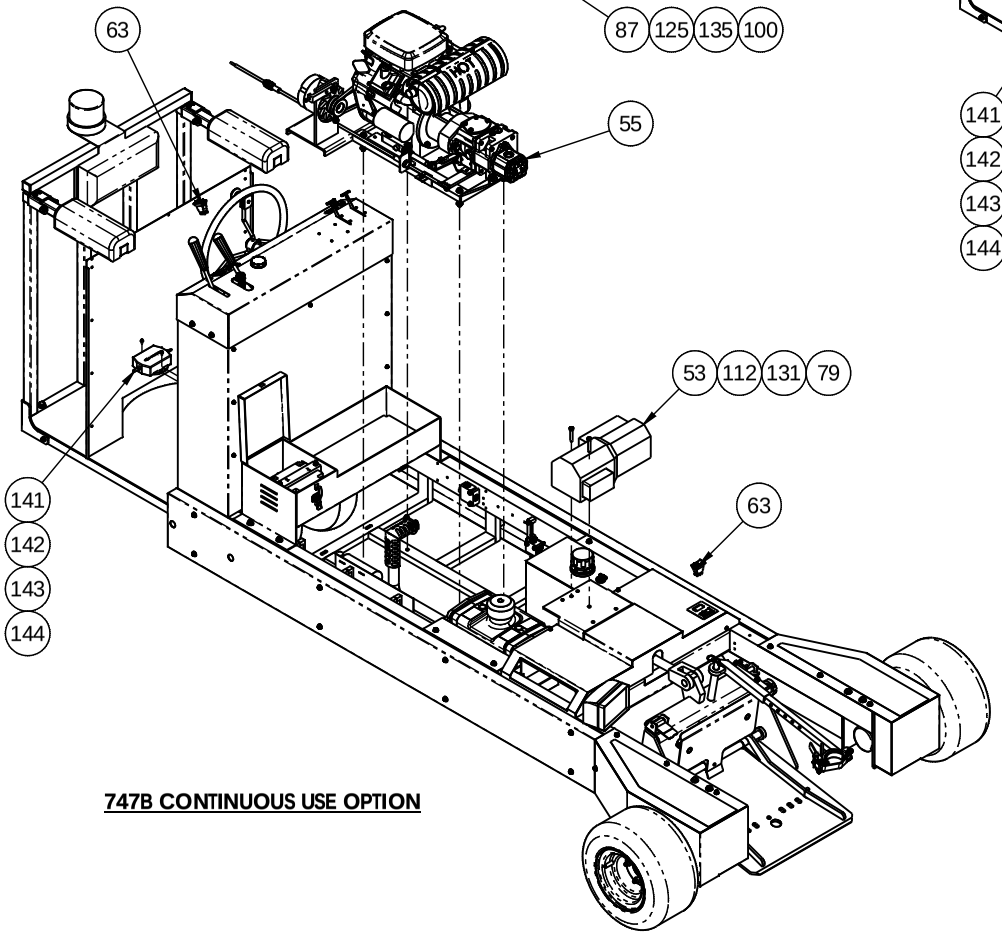
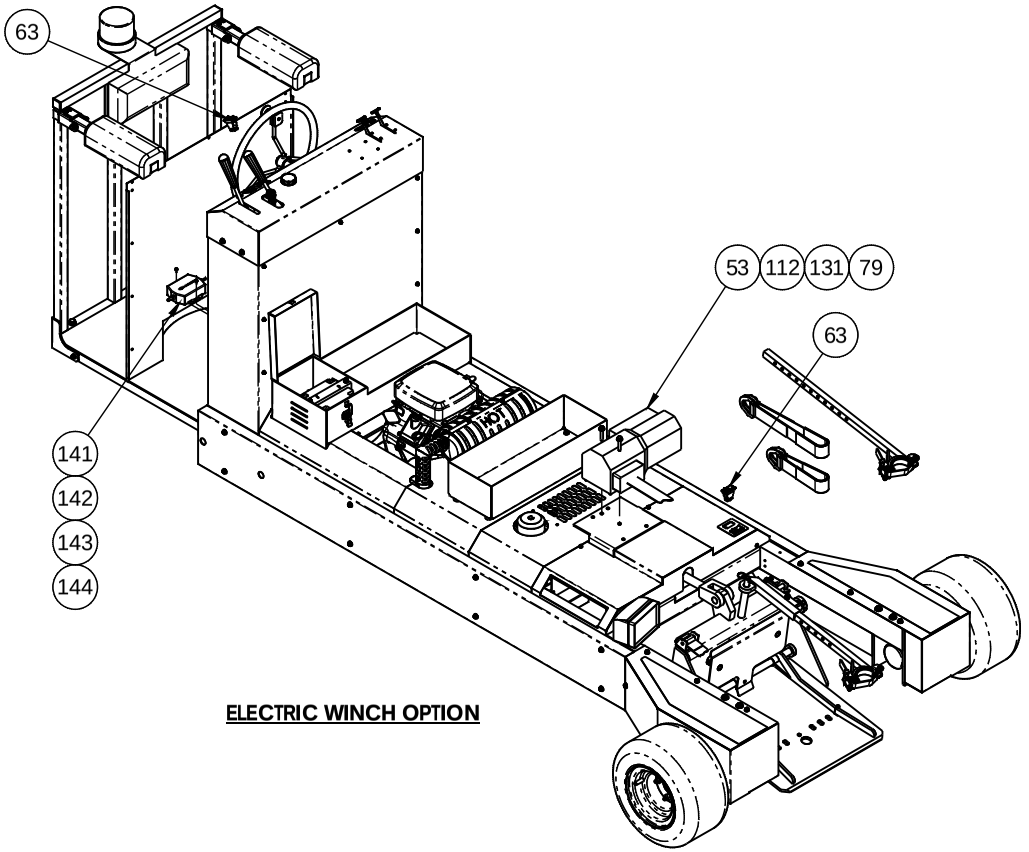
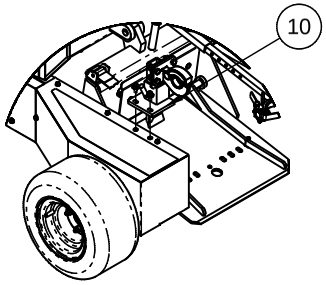




747B CONTINUOUS USE OPTION



ELECTRIC WINCH OPTION



PINTLE HITCH OPTION

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2013

FINISH	DEFAULTS
PLAIN/CLEAN	COUNTERSINKS: .02
BURR BENCH	
BLACKOXIDE	
HEAT TREAT	
SAND BLAST	
BUFF	
PAINT	
CLEAR CHROMATE	
TIMESAVE	
OIL	
Weld	

ATLANTA ATTACHMENT COMPANY

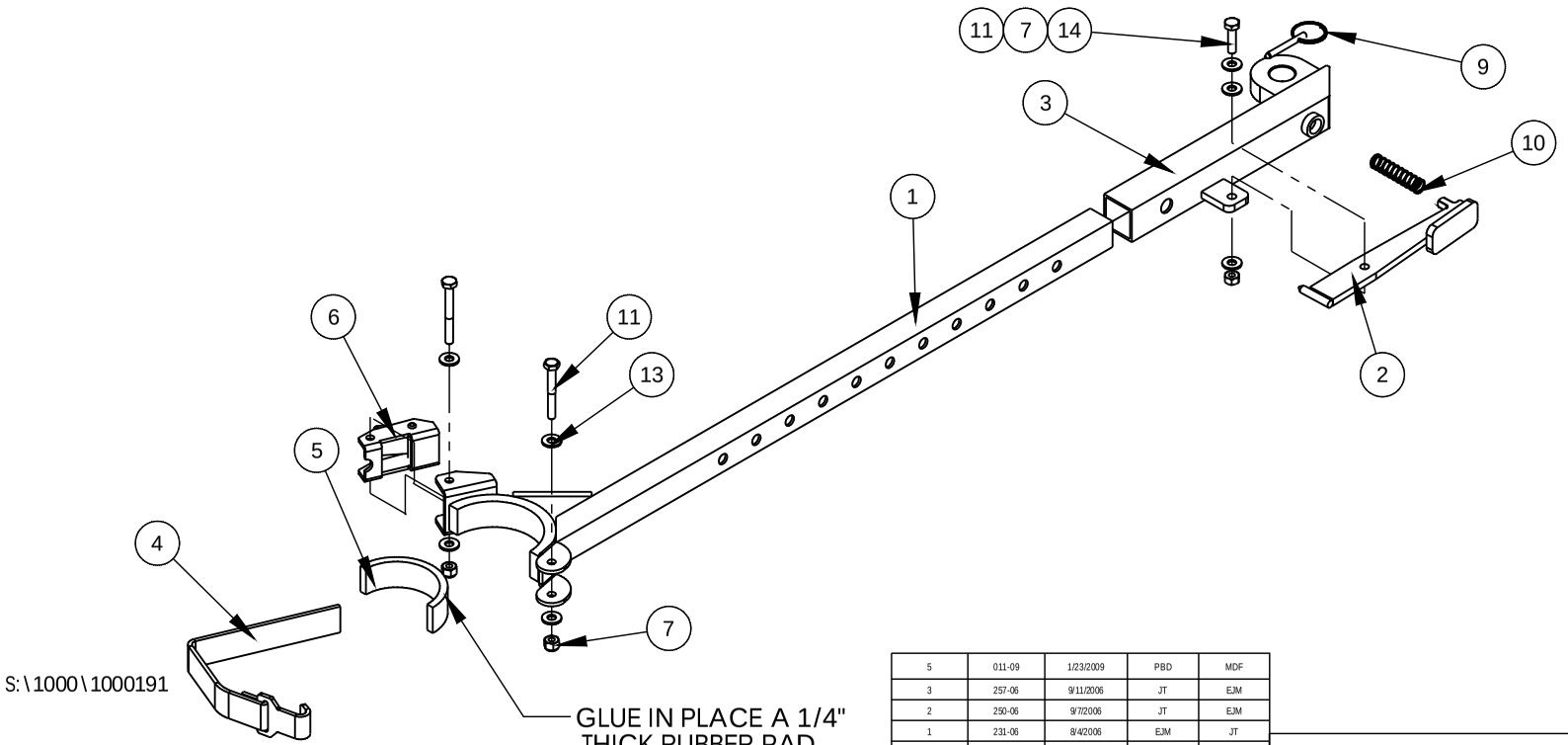
NAME	AIRCRAFT TUG,HD CRADLE,
2nd DES.	HYD. MTRS,BRIGGS
MATERIAL	NOTED
ASSEMBLY	747B
PART NO.	747B
DES. BY	Richard Brock
DR. BY	RICH BROCK
CK. BY	-
DRAWING NO.	9005360
REV	2
SCALE	1:14
DATE:	12/23/2013
DWG SIZE:	C WEIGHT

S:\PPP\747B

FOR OLD UNITS SEE 1000191_OLD

THE NEW HOLDER WILL NOT WORK
WITH THE OLD ARM ASBLY(TOO SHORT)

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	1000147	ARM ASSY,PLANE MOVER
2	1	1000153	LOCKING PIVOT ASSY
3	1	1000154	HOLDER
4	1	1000775	STRAP, 1"W X 15"L
5	1	9900074	RUBBER PAD,1/4X1X4.75
6	1	MM3648T31	STEEL BUCKLES 1"
7	2	NNE1/4-20	NUT,ELASTIC LOCK,1/4-20
8	1	NNH1/4-20	NUT,HEX,1/4-20
9	1	PPP90170A650	LINCH PIN, 3/16"
10	1	RRLC045G10	SPRING,COMP,.045X.48X2
11	1	SSHC01128	1/4-20 X 2 HEX CAP
12	1	SSHC01144	HEX HEAD BOLTS
13	7	WWFS1/4	WASHER,FLAT,SAE,1/4
14	1	SSHC01064	1/4-20 X 1 HHCS



S:\1000\1000191

REV	ECR	DATE	DR	CK
5	011-09	1/23/2009	PBD	MDF
3	257-06	9/11/2006	JT	EJM
2	250-06	9/7/2006	JT	EJM
1	231-06	8/4/2006	EJM	JT

FINISH	DEFAULTS
PLAIN/CLEAN	COUNTERSINKS: .02
BURR BENCH	
BLACKOXIDE	Loose Tolerance
HEAT TREAT	.X = ±.100
SAND BLAST	.XX = ±.050
BUFF	.XXX = ±.015
PAINT	.XXXX = AS SPECIFIED
CLEAR CHROMATE	
TIMESAVE	
OIL	
Other	

348-05

ATLANTA ATTACHMENT COMPANY

NAME	ARM ASSY,PLANE MOVER		
2nd DES.			
MATERIAL	NOTED		
ASSEMBLY	757	PART NO.	1000191
DES. BY	EJM	DRAWING NO.	1000191
DR. BY	E. McCartin	REV	5
CK. BY	-JEFF THOMAS		
SCALE	1:6	DATE: 11/30/2005	DWG SIZE: A WEIGHT 2686.21286

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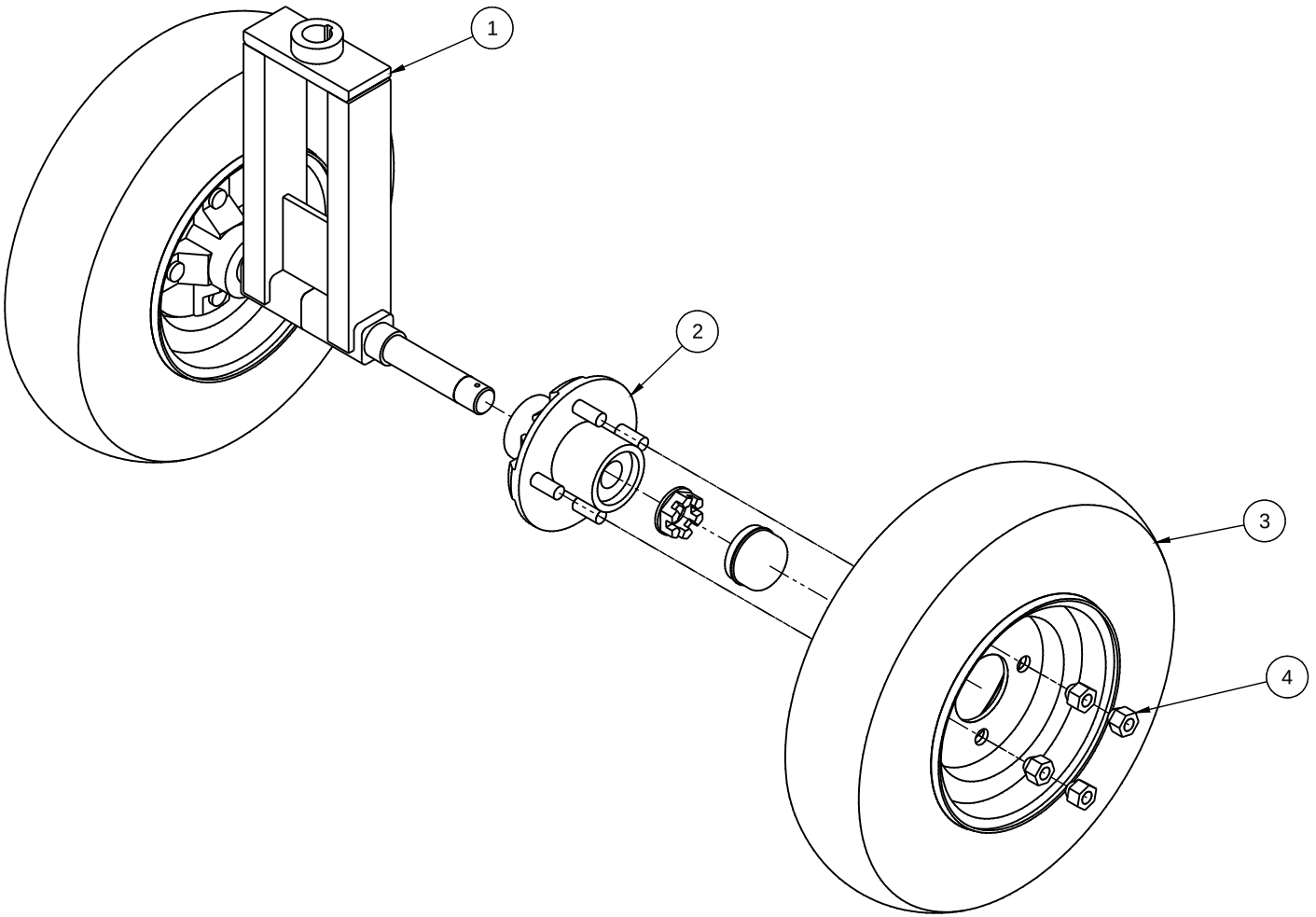
ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	1000416	WHEEL MOUNT ASSY
2	2	PPP204	HUB,WHEEL,4-BOLT
3	2	PPP12112	TIRE ASSY,16.5X4.8X8
4	8	PPP611016	NUT,LUG,1/2-20



S:\1002\1002778

RESEARCH & DEVELOPMENT		
WORK ORDER:		
MACHINE TIME	QTY. FOR TRIAL	1
DESIGN TIME:	QTY. PER ASSY.	1
NEEDED BY:		
CHECKED BY:		
RETURN TO:	ERIC GAGNON	

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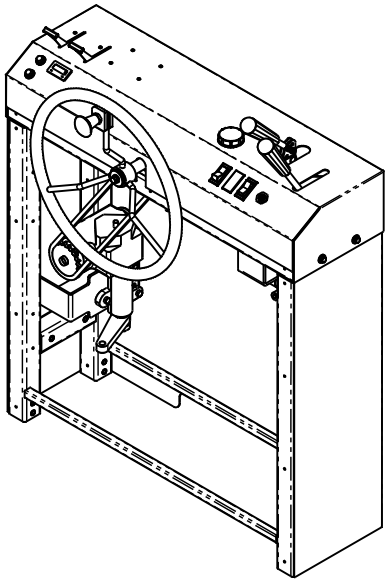
XXX-XX

FINISH	DEFAULTS
PLAIN/CLEAN	COUNTERSINKS: .02
BURR BENCH	
BLACKOXIDE	
HEAT TREAT	
SAND BLAST	
BUFF	
PAINT	
CLEAR CHROMATE	
TIMESAVE	
OIL	
Other	

SHEET 1 OF 1

ATLANTA ATTACHMENT COMPANY

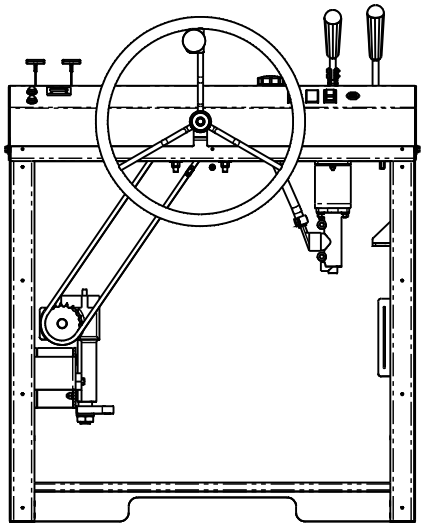
NAME	TURNING WHEEL ASM		
2nd DES.			
MATERIAL	NOTED		
ASSEMBLY	757BFBO	PART NO.	1002778
DES. BY	EG	DRAWING NO.	REV
DR. BY	ERIC GAGNON	1002778	0
CK. BY	-		
SCALE	1:3	DATE: 3/15/2013	DWG SIZE: C WEIGHT 81.477540

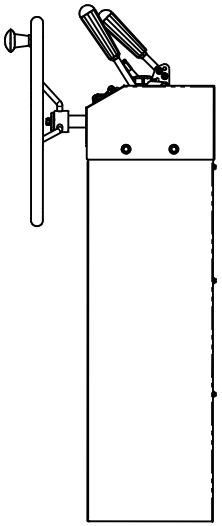


ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
51	4	SSHC25064	3/8-16X1,HEX CAP
52	1	SSHC25112	3/8-16 X 1-3/4 HEX HEAD
53	4	SSHC25224	3/8-16 X 3.5 HEX CAP
54	7	SSHC98024	10-32 X 3/8 HEX CAP
55	2	SSHC98048	SCREW, HEX CAP #10-32X.75
56	2	SSZS93032	SCREW, SHT.METAL 10 ZIP
57	4	WWF1/4	WASHER, FLAT, 1/4", COM
58	8	WWF3/8	WASHER,FLAT,3/8 OR 10MM
59	4	WWF5/16	WASHER,FLAT,5/16
60	1	WWF5/16S	WASHER,FLAT,5/16 NARROW
61	4	WWFM5S	WASHER, FLAT, M5 I.D.,SS
62	9	WWFS1/4	WASHER,FLAT,SAE,1/4
63	2	WWFS3/8	WASHER,FLAT,SAE,3/8
64	3	WWFS5/16	WASHER,FLAT,SAE,5/16
65	11	WWFS10	WASHER, FLAT, #10, SAE
66	1	WWFS10S	WASHER,FLAT,#10,SAE,S/S
67	9	WWL1/4	WASHER,LOCK,1/4
68	5	WWL5/16	WASHER, LOCK, 5/16
69	1	WWL5/16S	WASHER, LOCK, 5/16,S/S
70	13	WWL10	WASHER,LOCK,#10

" * " ITEM(S) NOT SHOWN

SEE SHEET 2 FOR EXPLODED VIEW





ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	1002432	BRACKET,THROTTLE PIVOT
2	1	1002548	CLAMP,SPINNER KNOB,BACK
3	1	1002549	CLAMP,SPINNER KNOB,FACE
4	1	1002888	PANEL, FRONT MAST
5	1	1002913	CONTROL MAST WLDMT
6	1	1002944	STEERING SHAFT
7	1	1002983	HANDLE,HYDRO CONTROL
8	1	1003020	MTG. PLATE,BRAKE RES.
9	1	1003025	WAGO MTG. PLATE
10	1	1003057	PANEL,CONTROL
11	1	1003058	BRAKE MOUNT BRKT,WLDMT
12	1	1003062	ADAPTER,TOGGLE CLAMP
13	1	1003063	BRAKE MOUNT BRACKET
14	1	1003302	CABLE EXTENSION
15	1	1306005	RETAINER,SHAFT,GEARBOX
16	*2	A-2014-42	BULB (32072)
17	2	A-2014-43	SOCKET, LAMP
18	1	A-2014-43L	LENS, RED
19	1	A-2014-44	LENS, AMBER
20	1	BBAW-4	BEARING,ROD END,FEMALE
21	1	EE24M3281	SWITCH, ROCKER,ON-OFF-ON
22	1	EE1105	SWITCH, ROCKER 28V ILLUM.
23	1	EE17195442	PANEL PLUG
24	1	FF79998861	HOUR METER, 8 DIGIT LCD
25	1	MM2N3600	WHEEL,STEERING,17.5 OD
26	1	MM40B20-5/8M	SPROCKET,#40,20T,.7178B
27	1	MM2800T11	KNOB,SPINNER,STEERING
28	1	MM5093A74M	TOGGLE CLAMP,MODIFIED
29	2	MM5413K51	CLAMP,HOSE,SOFT TUBING
30	1	MM6280K814	SPROCKET,20T,1/2"P,1"B
31	4	MM91920A865	STANDOFF,1/4 H,1.5L,10-32
32	2	MMVPLS-116	BEARING,PILLOW BLOCK 1.0B
33	9	NNE3/8-16	NUT, ELASTIC 3/8-16
34	5	NNE10-32	NUT,ELASTIC LOCK
35	5	NNH5/16-18	5/16-18 HEX NUT
36	3	NNK1/4-20	NUT,HEX,KEP,1/4-20,W/LOCK
37	50"	PPP40	CHAIN,#40 RIVET
38	1	PPP40CL	LINK,CONNECTING,#40
39	1	PPP806014	BORGESON, STEERING ARM
40	1	PPP920022	16:1 STEERING GEAR
41	1	PPP2603378	MASTER CYLINDER, 1"B, 1"S
42	2	PPPDC122046	THROTTLE LEVER/CABLE
43	1	PPPMC624	VOLTAGE REGULATOR,24V
44	1	PPPW463	IGNITION SWITCH
45	5	SSHC01048	1/4-20 X 3/4 HEX CAP
46	4	SSHC01080	1/4-20 X 1-1/4 HHCS
47	3	SSHC01192	HEX HEAD BOLTS, 1/4-20 X
48	2	SSHC10064	5/16-18 X 1 HHCS
49	1	SSHC10064S	SCREW,HEX,S/S,5/16-18X1
50	3	SSHC10080	5/16-18 X 1-1/4 HHCS

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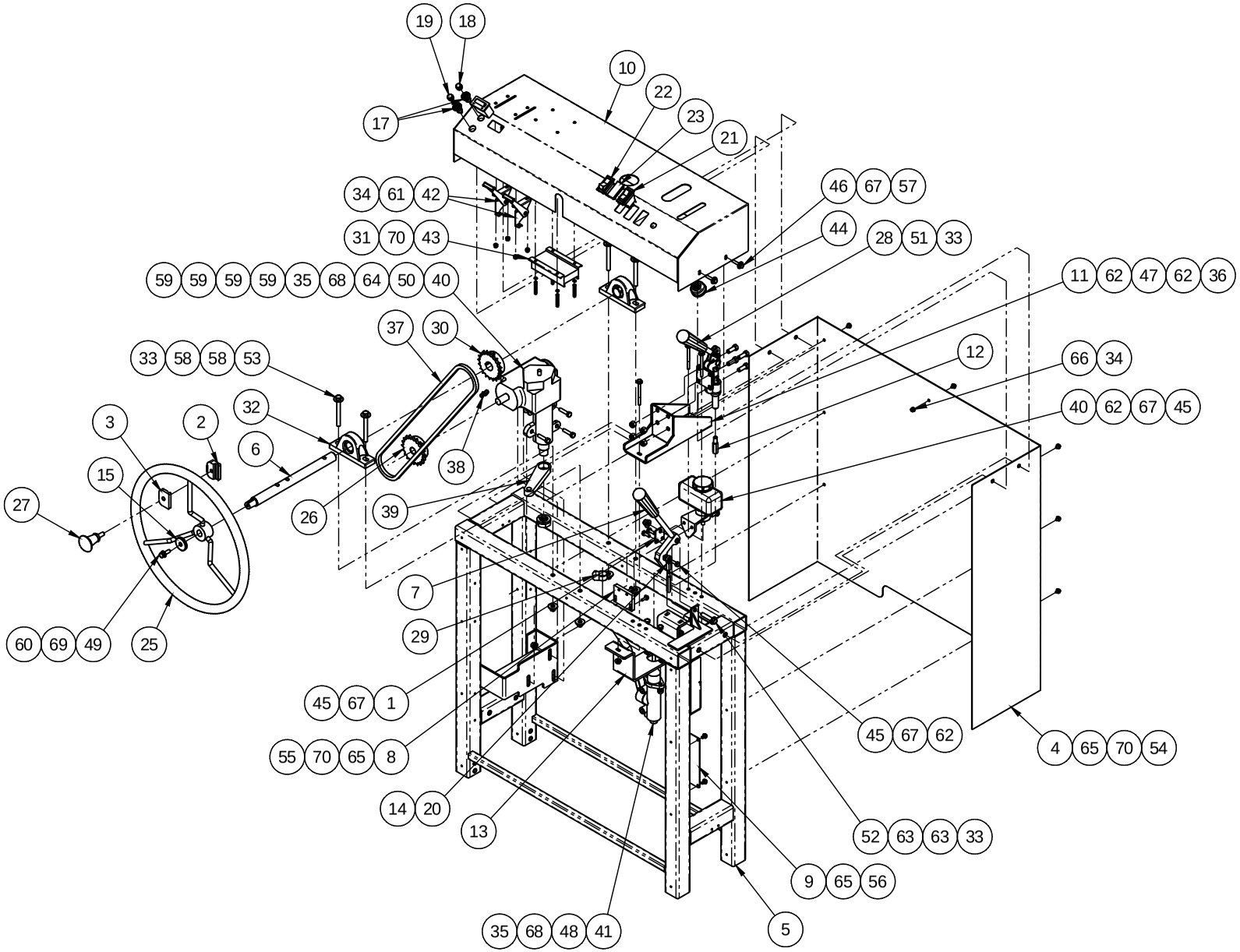
2013

FINISH	DEFAULTS
X PLAIN/CLEAN	COUNTERSINKS: .02
BURR BENCH	
BLACKOXIDE	
HEAT TREAT	
SAND BLAST	
BUFF	
PAINT	
CLEAR CHROMATE	
TIMESAVE	
OIL	
Weld	

ATLANTA ATTACHMENT COMPANY

NAME	STEERING/CONTROL MAST		
2nd DES.	757BFBO		
MATERIAL	NOTED		
ASSEMBLY	757BFBO	PART NO.	1002914
DES. BY	EG	DRAWING NO.	REV
DR. BY	EG	1002914	4
CK. BY	-		
SCALE	1:8	DATE: 3/14/2013	DWG SIZE: C WEIGHT

S:\1002\1002914



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2013

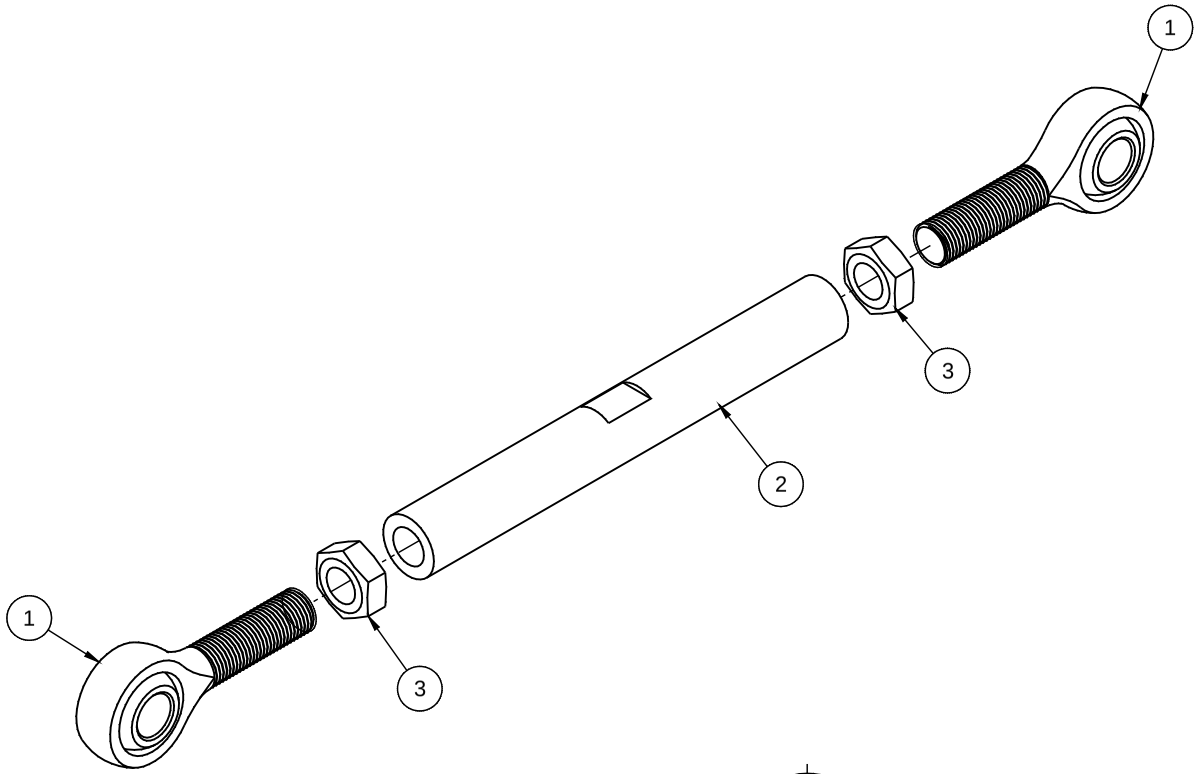
FINISH	DEFAULTS
X PLAIN/CLEAN	COUNTERSINKS: .02
BURR BENCH	
BLACKOXIDE	
HEAT TREAT	
SAND BLAST	
BUFF	
PAINT	
CLEAR CHROMATE	
TIMESAVE	
OIL	
Weld	

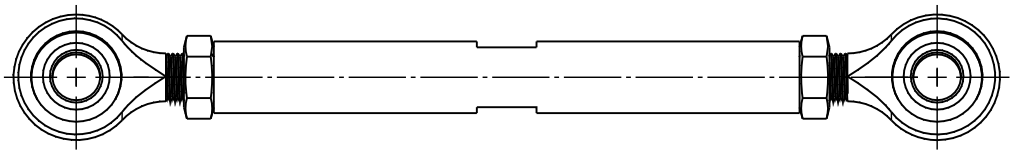
ATLANTA ATTACHMENT COMPANY

NAME	STEERING/CONTROL MAST		
2nd DES.	757BFBO		
MATERIAL	NOTED		
ASSEMBLY	757BFBO	PART NO.	1002914
DES. BY	EG	DRAWING NO.	REV
DR. BY	EG	1002914	4
CK. BY	-		
SCALE	1:8	DATE: 3/14/2013	DWG SIZE: C WEIGHT

S:\1002\1002914

ITEM NO.	Default/Hardware Shown/QTY.	PART NUMBER	DESCRIPTION
1	2	1325-11	BERNG RD ED MALE, 1/2-20
2	1	1002958	CONNECTOR, LINKAGE
3	2	NNJ1/2-20	1/2-20 JAM NUT





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SHEET 1 OF 1

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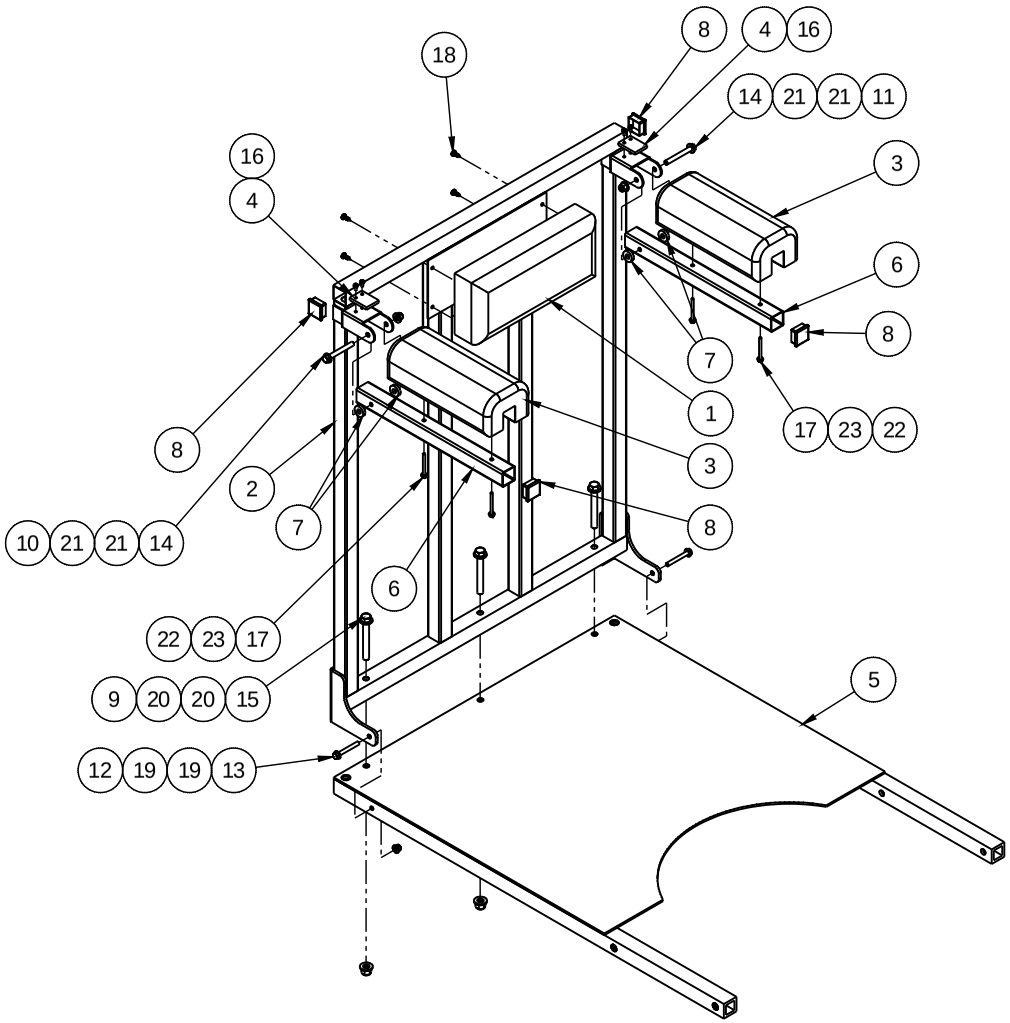
XXX-XX

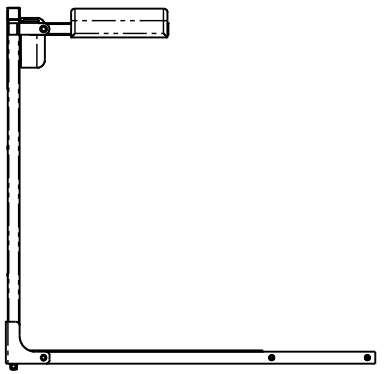
FINISH	DEFAULTS
PLAIN/CLEAN	COUNTERSINKS: .02
BURR BENCH	
BLACKOXIDE	
HEAT TREAT	
SAND BLAST	
BUFF	
PAINT	
CLEAR CHROMATE	
TIMESAVE	
OIL	
Weld	

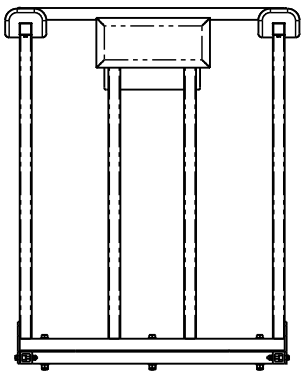
ATLANTA ATTACHMENT COMPANY

NAME	STEERING LINKAGE		
2nd DES.	757		
MATERIAL	NOTED		
ASSEMBLY	757BFBO	PART NO.	1002959
DES. BY	EG	DRAWING NO.	REV
DR. BY	Eric Gagnon	1002959	0
CK. BY	-		
SCALE	1:1	DATE: 3/15/2013	DWG SIZE: C WEIGHT

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	1000301	BACK REST,TUGS
2	1	1002471	BACK REST,WELDMENT
3	2	1002543	ARM REST, AFBO
4	2	1002641	BUMPER,PIVOT ARM
5	1	1002902	PLATFORM, OPERATOR
6	2	1002987	BRACE,SAFETY,757AFBO
7	4	1002997	SPACER,ARM
8	4	MM9565K27	END CAP,SQ,BLACK,1.5
9	3	NNE1/2-13	NUT,NYLOCK,1/2-13
10	1	NNE3/8-16	NUT, ELASTIC 3/8-16
11	1	NNE3/8-16S	NUT,ELASTIC LOCK,3/8-16
12	2	NNE5/16-18S	NUT,LOCK,5/16-18,S/S
13	2	SSHC10160	BOLT, HEX
14	2	SSHC25192	3/8-16 X 3 HEX CAP SC
15	3	SSHC45256	1/2-13X4 HEX CAP
16	4	SSPS98024	10-32X3/8 PAN HD SLOT
17	4	SSPS98144	#10-32 X 2 1/4 PAN HD SLOT
18	4	SSZP#14048	SCR,PAN,SHEET METAL,14X3/4
19	4	WWF5/16S	WASHER,FLAT,5/16 NARROW
20	6	WWFS1/2	WASHER,FLAT,SAE,1/2
21	4	WWFS3/8	WASHER,FLAT,SAE,3/8
22	4	WWFS10	WASHER, FLAT, #10, SAE
23	4	WWL10	WASHER,LOCK,#10







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2013

FINISH	DEFAULTS
X PLAIN/CLEAN	COUNTERSINKS:
BURR BENCH	
BLACKOXIDE	
HEAT TREAT	
SAND BLAST	
BUFF	
PAINT	
CLEAR CHROMATE	
TIMESAVE	
OIL	
Weld	

SHEET 1 OF 1

ATLANTA ATTACHMENT COMPANY

NAME	PLATFORM ASM
2nd DES.	757BFBO
MATERIAL	NOTED
ASSEMBLY	757BFBO
PART NO.	1002986
DES. BY	EG
DR. BY	Richard Brock
CK. BY	-
SCALE	1:8
DATE:	3/15/2013
DRAWING NO.	1002986
REV	2
DWG SIZE:	C
WEIGHT	

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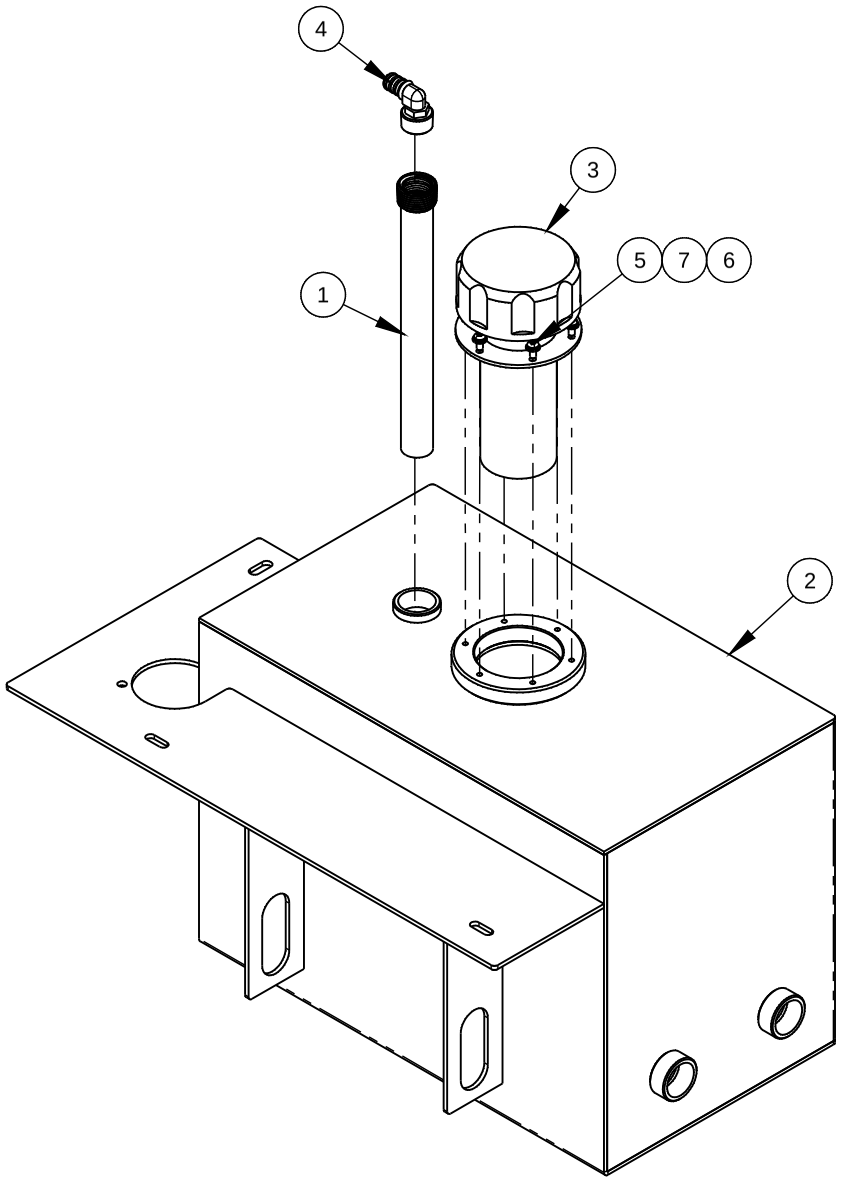
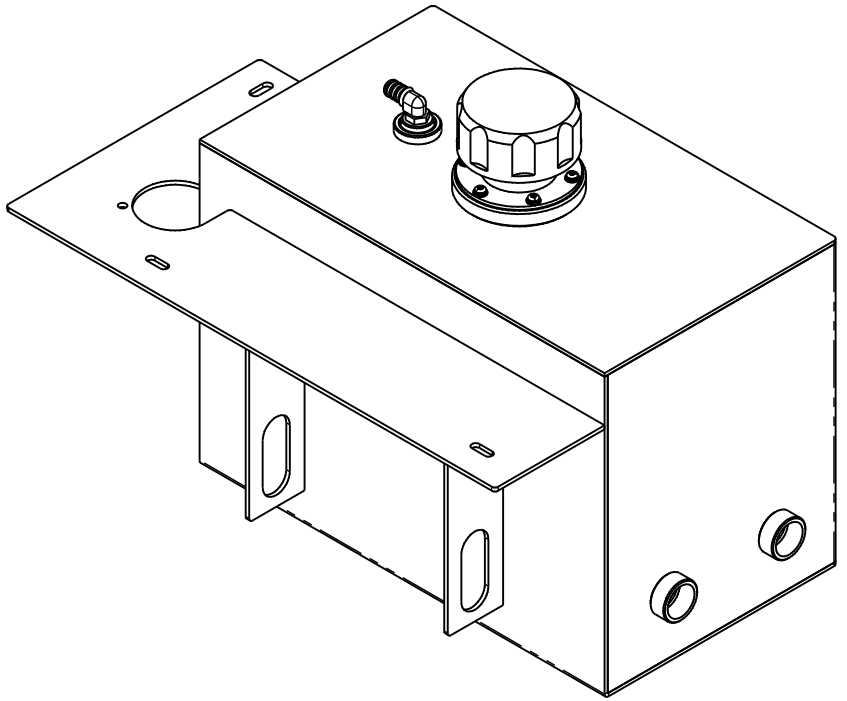
ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	1003030	TUBE,HYD TANK
2	1	1003043	HYD TANK,WLDMT
3	1	BVFC4473K42	WETATHERPROOF/W TANK FILL FILTER
4	1	MM53525K58	BARB ADAPTER,1/2"X1/2MNPT
5	6	SSBC90024	8-32X3/8 BUTTON CAP
6	6	WWF8	WASHER, FLAT, #8
7	6	WWL8	WASHER,LOCK,#8





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REV	ECR	DATE	DR	CK

SHEET 1 OF 1

FINISH	
X	PLAIN/CLEAN
	BURR BENCH
	BLACKOXIDE
	HEAT TREAT
	SAND BLAST
	BUFF
	PAINT
	CLEAR CHROMATE
	TIMESAVE
	OIL
	Weld

DEFAULTS

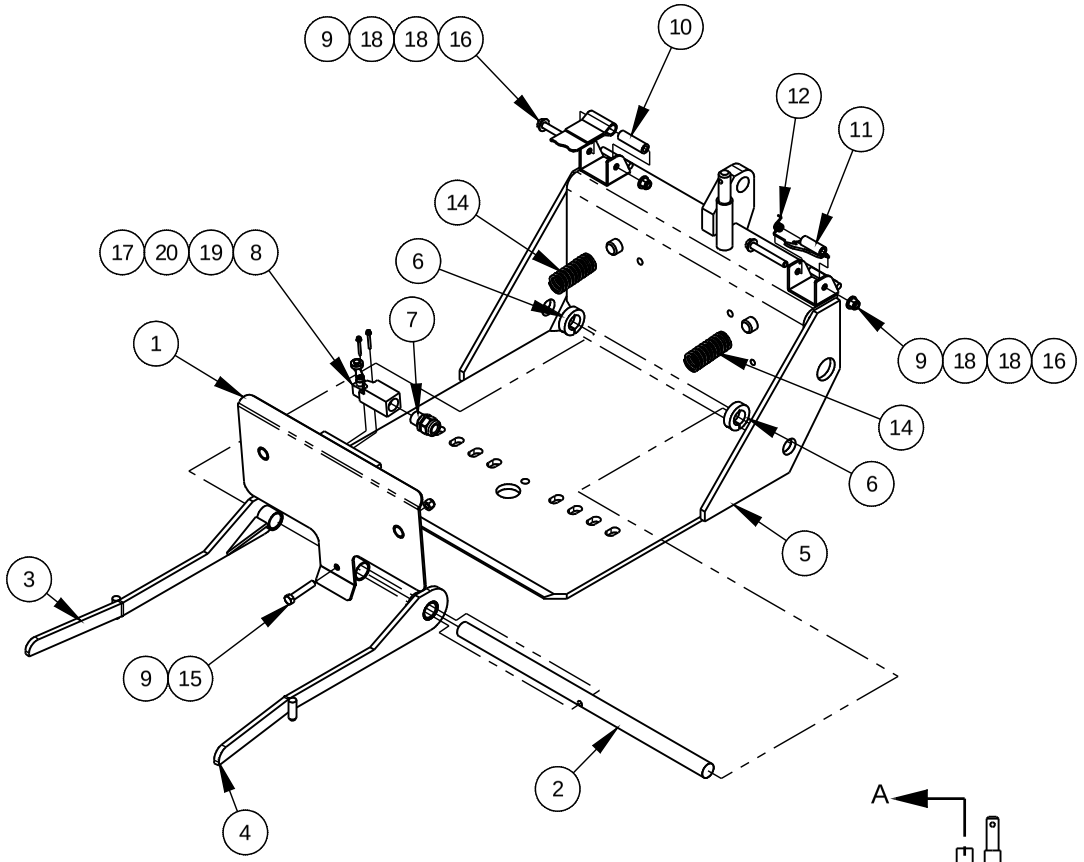
COUNTERSINKS .02

ATLANTA ATTACHMENT COMPANY

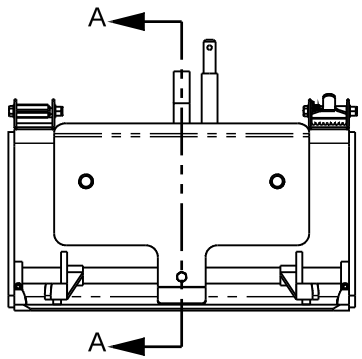
NAME	HYD TANK ASSY
2nd DES.	757BFBO
MATERIAL	NOTED
ASSEMBLY	757BFBO,757BFBO-NJ
PART NO.	1003044
DES. BY	RICH BROCK
DR. BY	RICH BROCK
CK. BY	
SCALE	1:5
DATE	7/31/2013
DWG SIZE	A
WEIGHT	

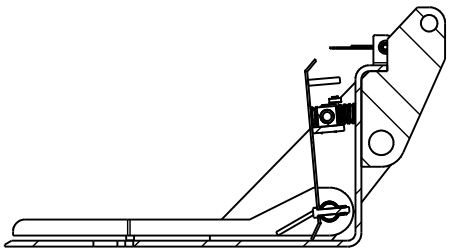
DRAWING NO. 1003044 REV 0

S:\1003\1003044



ITEM NO.	Hardware Shown/QTY.	PART NUMBER	DESCRIPTION
1	1	1000278	WHEEL STOP
2	1	1000356	ROD,STR,1X21.75
3	1	1000366	LEFT TIRE GUIDE
4	1	1000368	RIGHT TIRE GUIDE
5	1	1003105	SCOOP WELDMENT
6	2	CCCL16F	COLLAR,1" CLAMP TYPE
7	AR	FF3200	STRAIN RELIEF,1/2NPT
8	AR	FFEVN2000A	SWITCH,LIMIT,ROLLER ARM
9	3	NNE3/8-16	NUT, ELASTIC 3/8-16
10	1	PPP204009A	SLEEVE,STRAP CLAMP
11	1	PPP204021A	STRAP CLAMP WELDMENT
12	1	PPP204022A	SPRING,STRAP LATCH
13	1	PPP204052A	STRAP,HOLD DOWN
14	2	RRLC112N04M	SPRING,COMP,.112X1.22X3
15	1	SSHC25128	3/8-16 X 2 HEX CAP
16	2	SSHC25192	3/8-16 X 3 HEX CAP SC
17	AR	SSSC80080	6-32 X 1-1/4 SOC CAP SC
18	4	WWFS3/8	WASHER,FLAT,SAE,3/8
19	AR	WWFS6	WASHER, FLAT, #6
20	AR	WWL6	WASHER,LOCK,#6





SECTION A-A

SHEET 1 OF 1

REV	ECR	DATE	DR	CK
1	2014	10/29	RB	RB

FINISH	DEFAULTS
PLAIN/CLEAN	COUNTERSINKS: .02
BURR BENCH	
BLACKOXIDE	Loose Tolerance
HEAT TREAT	.X = ±.100
SAND BLAST	.XX = ±.050
BUFF	.XXX = ±.015
PAINT	.XXXX = AS SPECIFIED
CLEAR CHROMATE	
TIMESAVE	
OIL	
Weld	

ATLANTA ATTACHMENT COMPANY

NAME	SCOOP,747B PLANE MOVER		
2nd DES.			
MATERIAL	NOTED		
ASSEMBLY	747B	PART NO.	1003104
DES. BY	JPP	DRAWING NO.	1003104
DR. BY	Richard Brock		REV 1
CK. BY			
SCALE	1:12	DATE: 11/27/2013	DWG SIZE: A WEIGHT

S:\1003\1003104

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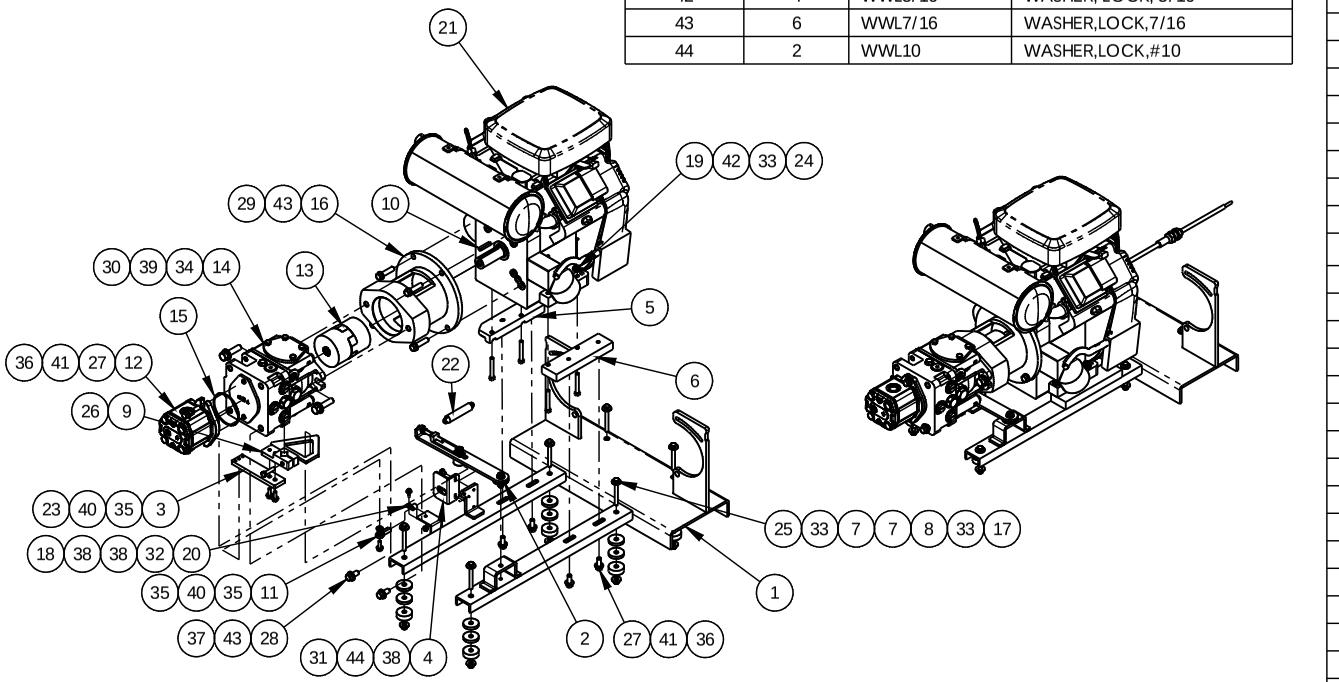
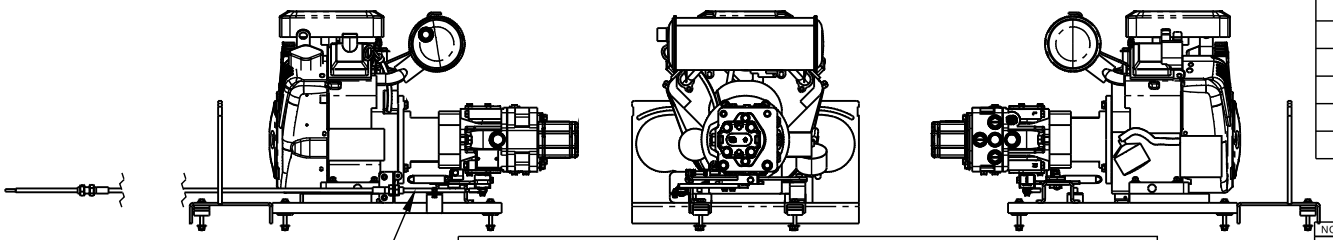
ITEM NO.	Hardware Shown/QTY.	PART NUMBER	DESCRIPTION
37	2	WWFS7/16	WASHER,FLAT,7/16
38	4	WWFS10	WASHER, FLAT, #10, SAE
39	2	WWL1/2	1/2 LOCK WASHER
40	3	WWL1/4	WASHER,LOCK,1/4
41	6	WWL3/8	WASHER, LOCK, 3/8
42	4	WWL5/16	WASHER, LOCK, 5/16
43	6	WWL7/16	WASHER,LOCK,7/16
44	2	WWL10	WASHER,LOCK,#10





PART OF 1002914

ITEM NO.	Hardware Shown/QTY.	PART NUMBER	DESCRIPTION
1	1	1002876	MOUNT, MOTOR & PUMP,
2	1	1002880	CAM FOLLOWER ARM
3	1	1003026	LEVER EXTENSION
4	1	1003027	CABLE ANCHOR BRACKET
5	1	1003095	ENGINE SPACER, LH
6	1	1003096	ENGINE SPACER, RH
7	12	1359311	WASHERS, VIB DAM
8	6	1359312	SPACER, MOTOR MOUNT
9	1	1359344	CAM, MODIFIED
10	1	1359384	ENGINE COUPLE KEY
11	1	BBAW-4	BEARING,ROD END,FEMALE
12	1	HY1112013000	HYDRAULIC PUMP,GEAR
13	1	HYL110N1391	COUPLING,HYD PUMP SPLINE
14	1	HYMPV025C	HYDRAULIC PUMP,PISTON
15	1	MM90041001520	O-RING,3.25ID,.094 THICK
16	1	MMG212056	ENGINE-PUMP ADAPTER 1359
17	6	NNE5/16-18	NUT,ELASTIC LOCK,5/16-18
18	1	NNE10-32	NUT,ELASTIC LOCK
19	4	NNH5/16-18	5/16-18 HEX NUT
20	1	PPP2215B	WIRE CLAMP, .193I.D.
21	1	PPPVG23GHP	23HP, GAS, B&S ENGINE
22	1	RR9654K303	SPRING,EXT,2.65 LONG
23	3	SSHC01056	1/4-20 X 7/8 HEX CAP
24	4	SSHC10144	SCREW,HEX,5/16-18X2-1/4
25	6	SSHC10176	SCREW,HEX CAP
26	1	SSHC20080	5/16-24 X 1-1/4 HEX CAP
27	6	SSHC25064	3/8-16X1,HEX CAP
28	2	SSHC38064	7/16-14 X 1 HEX CAP
29	4	SSHC38112	7/16-14 X 1-3/4 HEX CAP
30	2	SSHC45128	1/2-13X2 HEX CAP
31	2	SSHC98032	10-32X1/2 HEX HD
32	1	SSSC98040	10-32 X 5/8 SOC CAP
33	16	WWF5/16	WASHER,FLAT,5/16
34	2	WWFS1/2	WASHER,FLAT,SAE,1/2
35	4	WWFS1/4	WASHER,FLAT,SAE,1/4
36	6	WWFS3/8	WASHER,FLAT,SAE,3/8

SHEET OF 1

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2013

NO	ECR NO	DATE	DR	CK

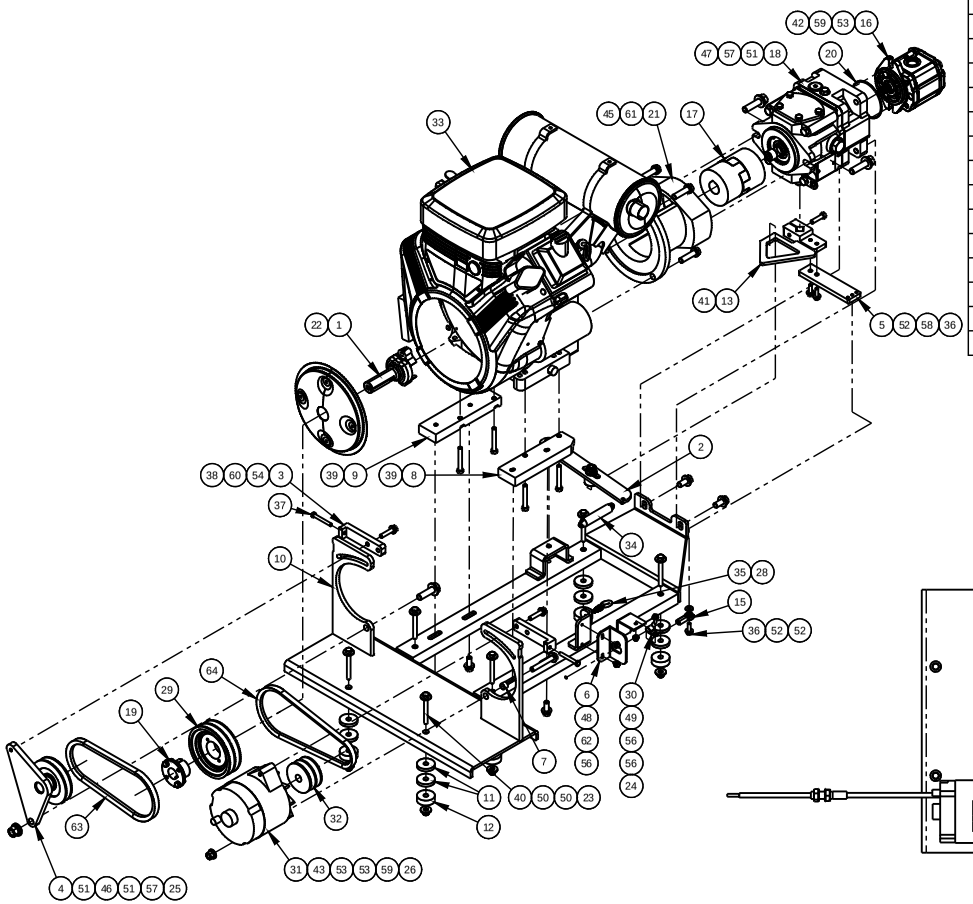
FINISH: PLAIN/CLEAN, BURR BENCH, BLACKOXIDE, HEAT TREAT, SAND BLAST, BUFF, PAINT, CLEAR CHROMATE, TIMESAVE, OIL, Weld

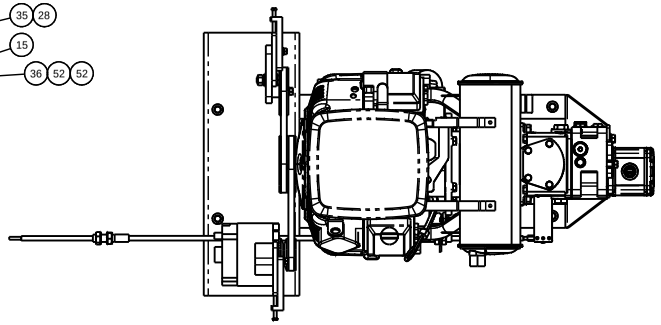
DEFAULTS: COUNTERSINKS: .02

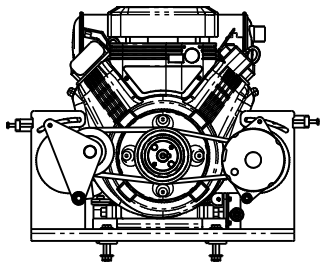
ATLANTA ATTACHMENT COMPANY

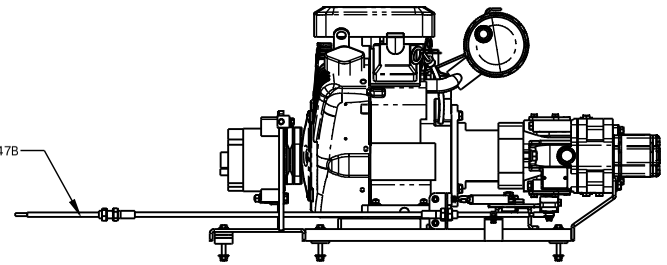
NAME	MOTOR-PUMP ASSEM,23HP		
2nd DES.	TUG		
MATERIAL	NOTED		
ASSEMBLY	747B	PART NO.	1003115
DES. BY	Richard Brock	DRAWING NO.	1003115 REV 0
DR. BY	Richard Brock		
CK. BY	-		
SCALE	1:12	DATE: 12/6/2013	DWG SIZE: B WEIGHT

S:\1003\1003115









ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
51	4	WWFS1/2	WASHER,FLAT,SAE,1/2
52	4	WWFS1/4	WASHER,FLAT,SAE,1/4
53	8	WWFS3/8	WASHER,FLAT,SAE,3/8
54	2	WWFS5/16	WASHER,FLAT,SAE,5/16
55	2	WWFS7/16	WASHER,FLAT,7/16
56	4	WWFS10	WASHER, FLAT, #10, SAE
57	3	WWL1/2	1/2 LOCK WASHER
58	3	WWL1/4	WASHER,LOCK,1/4
59	7	WWL3/8	WASHER, LOCK, 3/8
60	6	WWL5/16	WASHER, LOCK, 5/16
61	6	WWL7/16	WASHER,LOCK,7/16
62	2	WWL10	WASHER,LOCK,#10
63	1	ZX5025	V-BELT
64	1	ZX5026	V BELT, 1/2" X 26"

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	841580	STUB SHAFT KIT,PPPVG23GHP
2	1	1002880	CAM FOLLOWER ARM
3	2	1002882	ARM, TENSIONER
4	1	1003023	TENSIONER,V-BELT
5	1	1003026	LEVER EXTENSION
6	1	1003027	CABLE ANCHOR BRACKET
7	1	1003035	SLEEVE,ALTERNATOR
8	1	1003095	ENGINE SPACER, LH
9	1	1003096	ENGINE SPACER, RH
10	1	1003300	MOUNT, MOTOR & PUMP,
11	12	1359311	WASHERS, VIB DAM
12	6	1359312	SPACER, MOTOR MOUNT
13	1	1359344	CAM, MODIFIED
14	1	1359384	ENGINE COUPLE KEY
15	1	BBAW-4	BEARING,ROD END,FEMALE
16	1	HY1112013000	HYDRAULIC PUMP,GEAR
17	1	HYL110N1391	COUPLING,HYD PUMP SPLINE
18	1	HYMPV025C	HYDRAULIC PUMP,PISTON
19	1	MM00226251	QD BUSHING,TAPERED 1"B
20	1	MM90041001520	O-RING,3.25ID,.094 THICK
21	1	MMG212056	ENGINE-PUMP ADAPTER 1359
22	2"	MMKEY1-4	KEYSTOCK,1/4 SQ.
23	6	NNE5/16-18	NUT,ELASTIC LOCK,5/16-18
24	1	NNE10-32	NUT,ELASTIC LOCK
25	1	NNH1/2-13	NUT,HEX,1/2-13
26	1	NNH3/8-16	NUT,HEX,3/8-16
27	4	NNH5/16-18	5/16-18 HEX NUT
28	1	NNJ1/4-20	NUT, HEX, JAM, 1/4-20
29	1	PP2AK49H	PULLEY,V-BELT,4.75" OD,
30	1	PPP2215B	WIRE CLAMP, .193I.D.
31	1	PPP2134011	ALTERNATOR,12V,63 AMP
32	1	PPP7807704	SHEAVE,DUAL-V,17MMB,1/2" BELT
33	1	PPPVG23GHP	23HP, GAS, B&S ENGINE
34	1	RR9654K303	SPRING,EXT,2.65 LONG
35	1	SSBE01060	EYEBOLT,1/4-20 X .88
36	3	SSHC01056	1/4-20 X 7/8 HEX CAP
37	2	SSHC01128F	1/4-20X2 HEX CAP,FULL THD
38	2	SSHC10096	5/16-18 X 1-1/2 HHCS
39	4	SSHC10144	SCREW,HEX,5/16-18X2-1/4
40	6	SSHC10176	SCREW,HEX CAP
41	1	SSHC20080	5/16-24 X 1-1/4 HEX CAP
42	6	SSHC25064	3/8-16X1,HEX CAP
43	1	SSHC25160	3/8-16X2-1/2 HEX CAP SC
44	2	SSHC38064	7/16-14 X 1 HEX CAP
45	4	SSHC38112	7/16-14 X 1-3/4 HEX CAP
46	1	SSHC45112	1/2-13X1-3/4 HEX CAP
47	2	SSHC45128	1/2-13X2 HEX CAP
48	2	SSHC98024	10-32 X 3/8 HEX CAP
49	1	SSSC98040	10-32 X 5/8 SOC CAP
50	16	WWF5/16	WASHER,FLAT,5/16

" * " ITEM(S) NOT SHOWN

S:\1003\1003296

RESEARCH & DEVELOPMENT		
WORK ORDER:	Set Number	
MACHINE TIME	QTY. FOR TRIAL	1
DESIGN TIME:	QTY. PER ASSY.	1
NEEDED BY:	9/25/2014	
CHECKED BY:		
RETURN TO:	TUGS	

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2013

REV	ECR	DATE	DR	CK

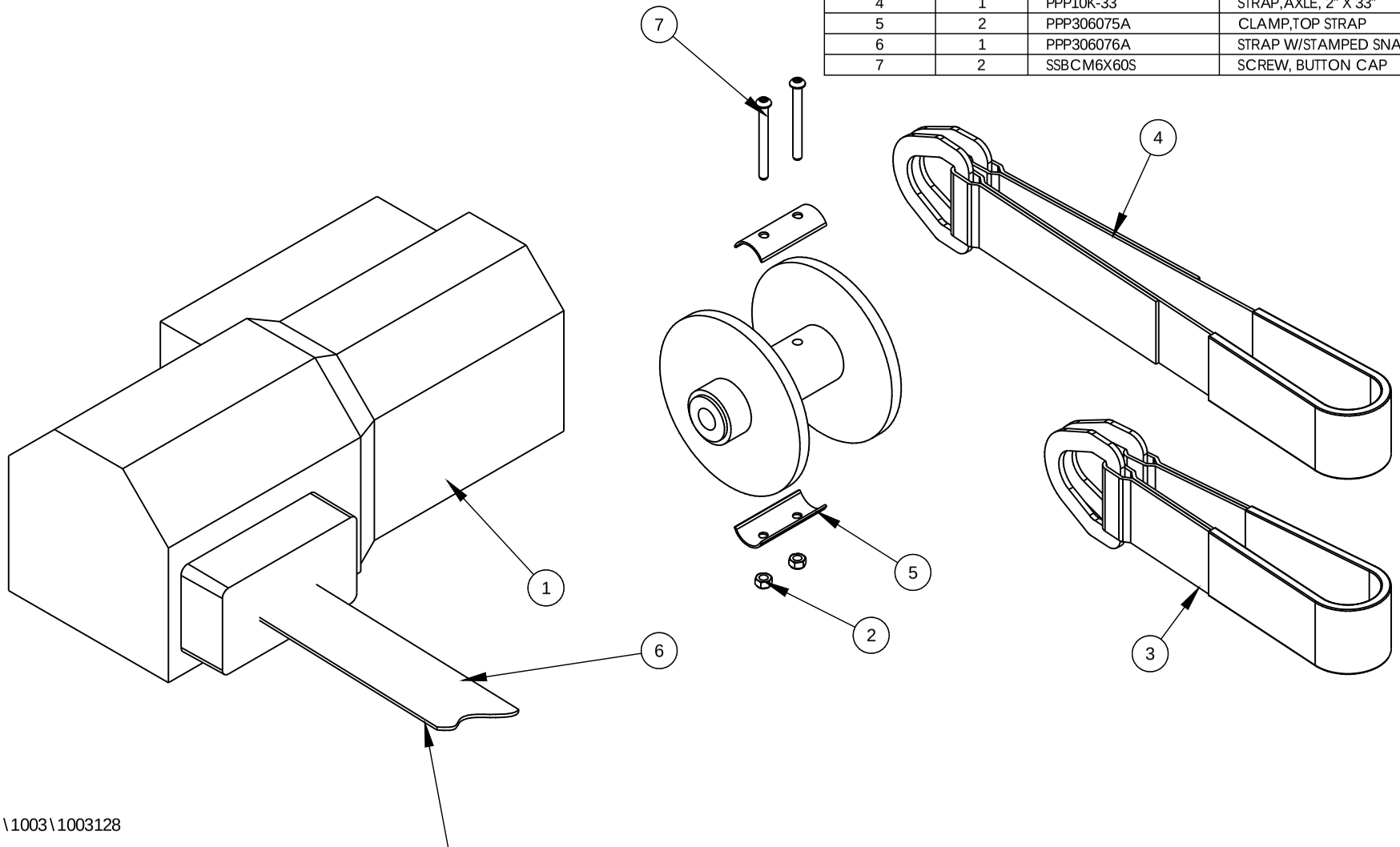
SHEET 1 OF 1

FINISH	DEFAULTS
X PLAIN/CLEAN	COUNTERSINKS:
BURR BENCH	
BLACKOXIDE	
HEAT TREAT	
SAND BLAST	
BUFF	
PAINT	
CLEAR CHROMATE	
TIMESAVE	
OIL	
Weld	

ATLANTA ATTACHMENT COMPANY

NAME	MOTOR-PUMP ASSY,CONT. USE
2nd DES.	TUG
MATERIAL	NOTED
ASSEMBLY	747B
PART NO.	1003296
DES. BY	Richard Brock
DR. BY	Richard Brock
CK. BY	-
DRAWING NO.	1003296
REV	0
SCALE	1:8
DATE:	9/25/2014
DWG SIZE:	C
WEIGHT	

ITEM NO.	QTY	PART NUMBER	DESCRIPTION
1	1	MM1450200	SUPERWINCH S5000,12VDC
2	2	NNEM6-1.0S	NUT, LOCK M6-1.0,SS
3	1	PPP10K-21	STRAP,AXLE W/12" SLEEVE
4	1	PPP10K-33	STRAP,AXLE, 2" X 33"
5	2	PPP306075A	CLAMP,TOP STRAP
6	1	PPP306076A	STRAP W/STAMPED SNAP HOOK
7	2	SSBCM6X60S	SCREW, BUTTON CAP



S:\1003\1003128

PAINT THE LAST FOOT OF THE STRAP RED.

319-05

FINISH	DEFAULTS
PLAIN/CLEAN	COUNTERSINKS: .02
BURR BENCH	
BLACKOXIDE	
HEAT TREAT	
SAND BLAST	
BUFF	
PAINT	
CLEAR CHROMATE	
TIMESAVE	
OIL	
Weld	

ATLANTA ATTACHMENT COMPANY

NAME	ELECTRIC WINCH ASSY,12V		
2nd DES.			
MATERIAL	NOTED		
ASSEMBLY	757BFBO-NJ	PART NO.	1003128
DES. BY	Richard Brock	DRAWING NO.	1003128
DR. BY	Richard Brock	REV	0
CK. BY			
SCALE	1:4	DATE: 1/7/2014	DWG SIZE: A WEIGHT

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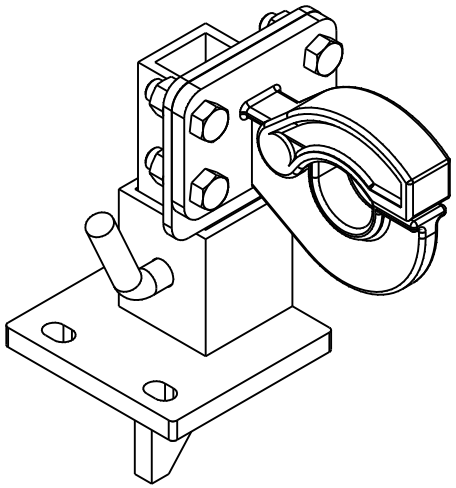
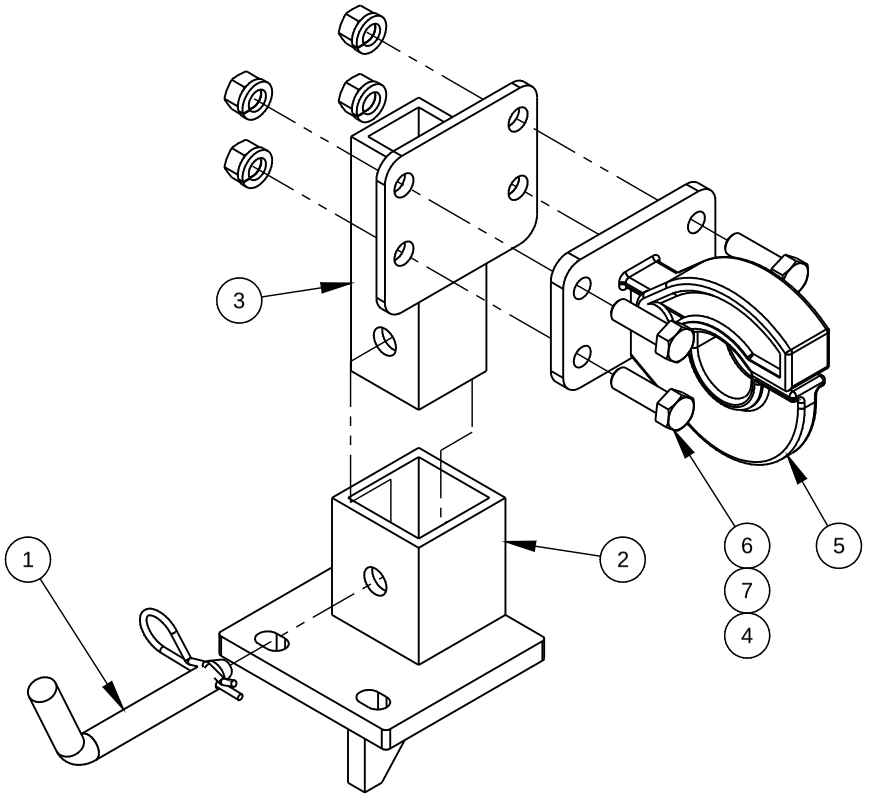
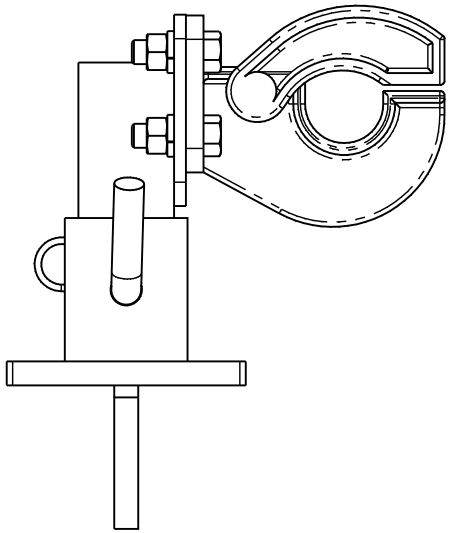
ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	33053	HITCH PIN AND CLEVIS
2	1	1000308	WELDMENT,HITCH MNT
3	1	1000311	WELDMENT,PINTLE HITCH
4	4	NNH1/2-13	NUT,HEX,1/2-13
5	1	PPP2853T1	PINTLE HITCH DRAWBAR
6	4	SSHC45096	1/2-13X1-1/2 HEX CAP
7	4	WWL1/2	1/2 LOCK WASHER







S:\1000\1000312

XXX-XX

1	2012	10/26	RB	RB
REV	ECR	DATE	DR	CK

FINISH	DEFAULTS
PLAIN/CLEAN	COUNTERSINKS: .02
BURR BENCH	
BLACKOXIDE	
HEAT TREAT	
SAND BLAST	
BUFF	
PAINT	
CLEAR CHROMATE	
TIMESAVE	
OIL	
Other	

ATLANTA ATTACHMENT COMPANY

NAME	PINTLE HITCH		
2nd DES.			
MATERIAL	NOTED		
ASSEMBLY		PART NO.	1000312
DES. BY	Matt Dasher	DRAWING NO.	1000312
DR. BY	Matt Dasher		REV 1
CK. BY	Matt Dasher		
SCALE	1:4	DATE: 12/11/2006	DWG SIZE: A WEIGHT 11.292680

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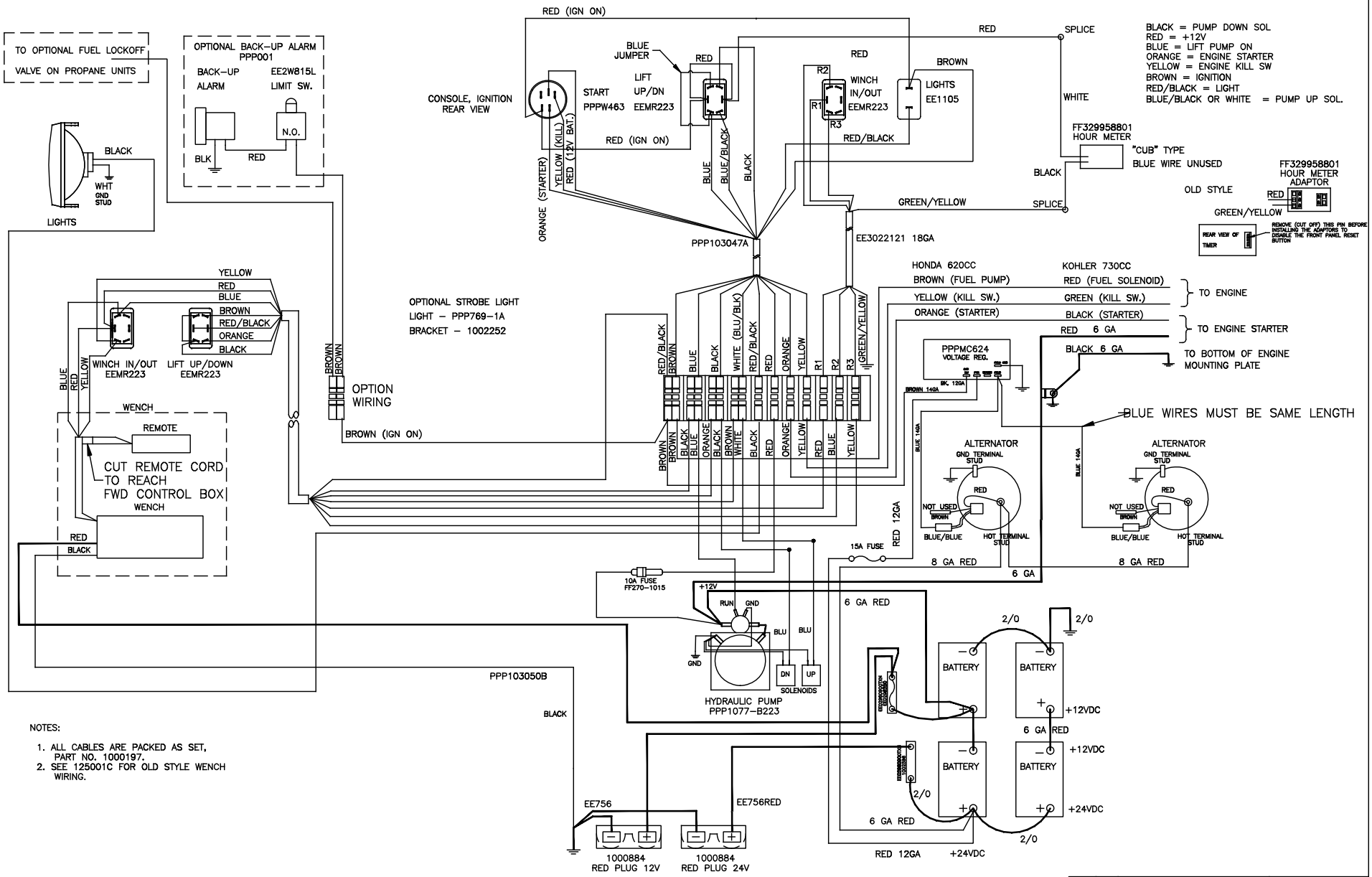

NO.	REVISION	DATE	DR.	CK.
2	2012	12/20	PD	RB

FINISH	DEFAULTS
PLAIN/CLEAN	
BURR BENCH	
BLACKOXIDE	
HEAT TREAT	
SAND BLAST	
BUFF	
PAINT	
CLEAR CHROMATE	
TIMESAVE	
OIL	

QTY. REQD.	ITEM NO.	DESCRIPTION	PART NO. STOCK SIZE

ATLANTA ATTACHMENT COMPANY

NAME	DIAGRAM,WIRING,UNIVERSAL
2nd DES.	757FBO
MATERIAL	.
NEXT ASSY	.
PART NO.	757FBO-WD
DES. BY	PBD
DR. BY	PBD
CK. BY	MATT DASHER
DRAWING NO.	125795B
REV	2
SCALE	2:1
DATE	6-15-09
DWG SIZE	C

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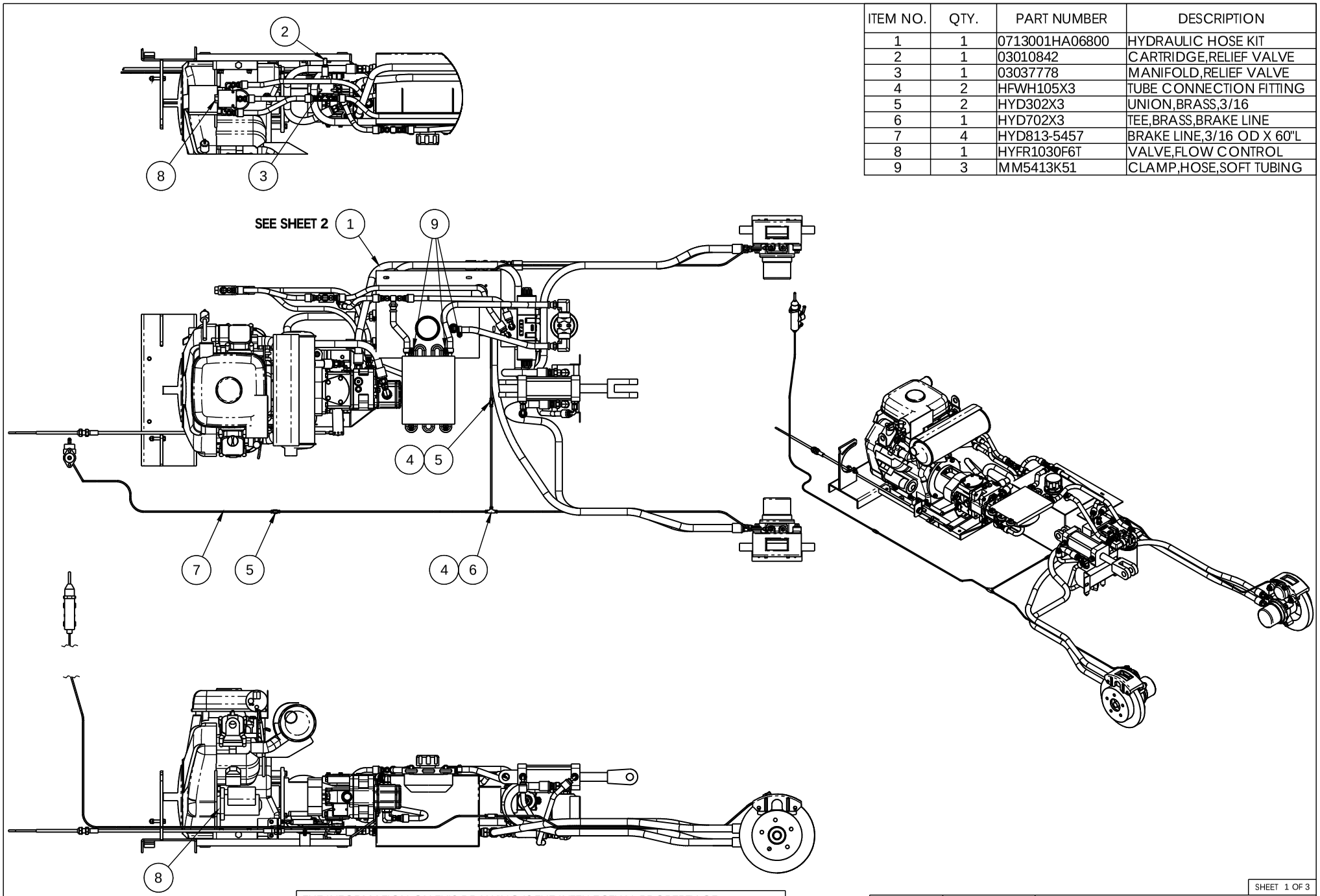

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	0713001HA06800	HYDRAULIC HOSE KIT
2	1	03010842	CARTRIDGE,RELIEF VALVE
3	1	03037778	MANIFOLD,RELIEF VALVE
4	2	HFWH105X3	TUBE CONNECTION FITTING
5	2	HYD302X3	UNION,BRASS,3/16
6	1	HYD702X3	TEE,BRASS,BRAKE LINE
7	4	HYD813-5457	BRAKE LINE,3/16 OD X 60"L
8	1	HYFR1030F6T	VALVE,FLOW CONTROL
9	3	MM5413K51	CLAMP,HOSE,SOFT TUBING

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2013

S:\PPP\757BFBO-HYD

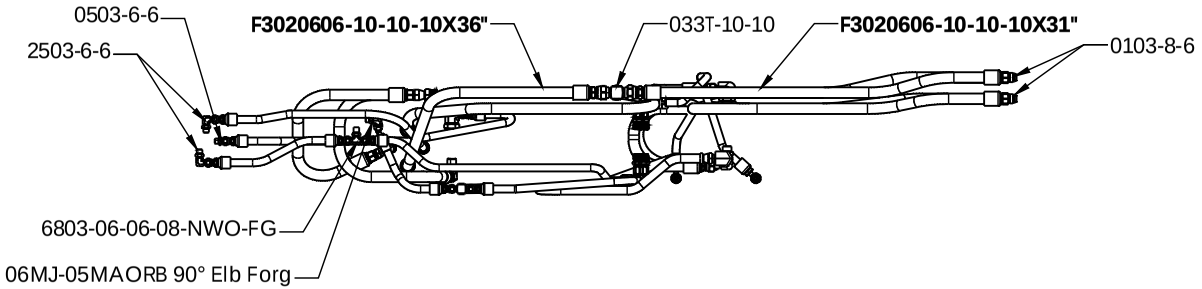
SHEET 1 OF 3

FINISH	DEFAULTS
PLAIN/CLEAN	COUNTERSINKS: .02
BURR BENCH	
BLACKOXIDE	
HEAT TREAT	
SAND BLAST	
BUFF	
PAINT	
CLEAR CHROMATE	
TIMESAVE	
OIL	
Weld	

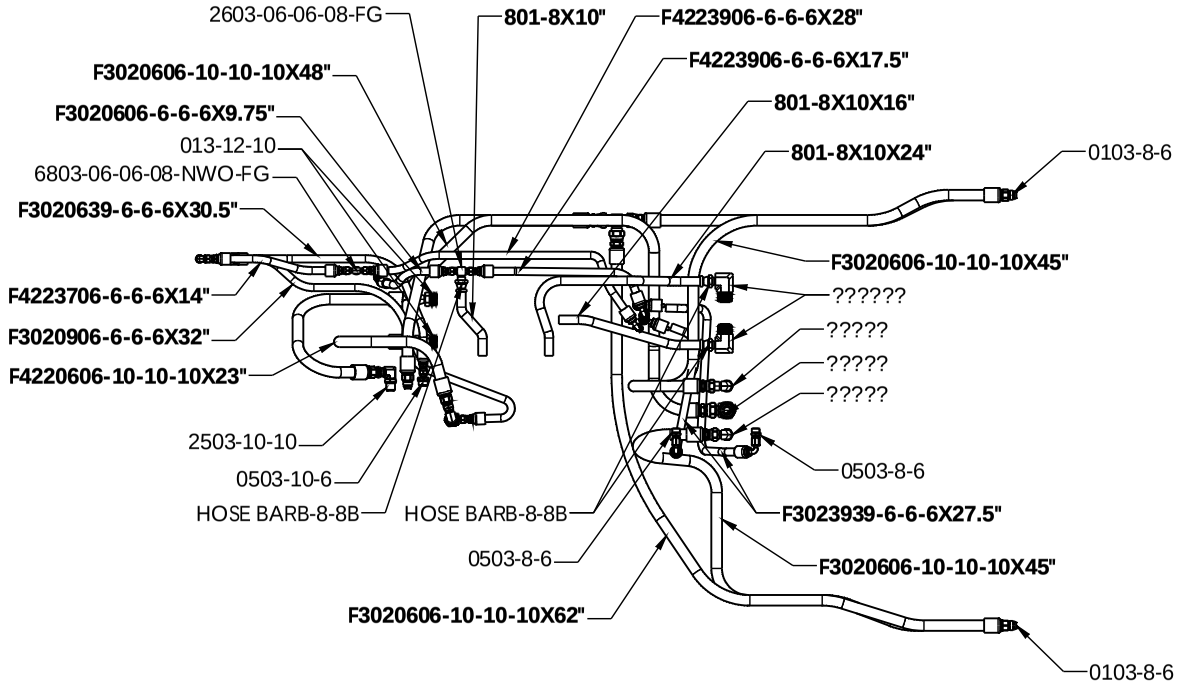
ATLANTA ATTACHMENT COMPANY

NAME	HYDRAULIC LINE ROUTING
2nd DES.	& FITTINGS,757BFBO
MATERIAL	NOTED
ASSEMBLY	757BFBO
PART NO.	757BFBO-HYD
DES. BY	EG
DR. BY	RICH BROCK
CK. BY	-
DRAWING NO.	9005016
REV	0
SCALE	1:9
DATE:	3/15/2013
DWG SIZE:	C
WEIGHT	

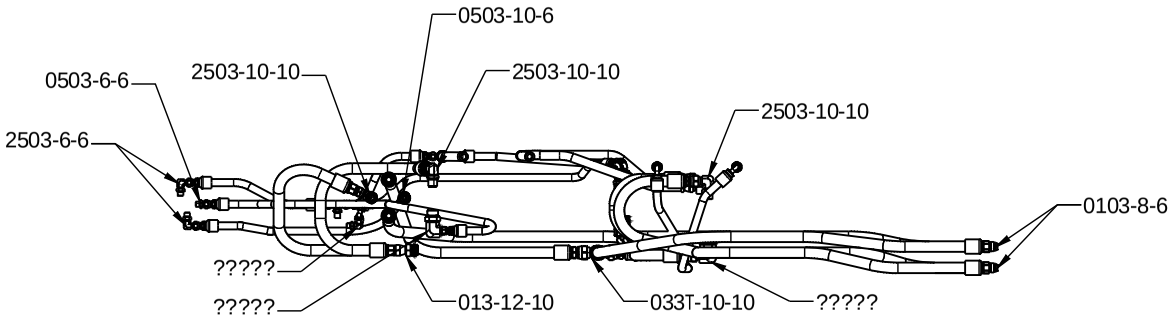
LEFT SIDE

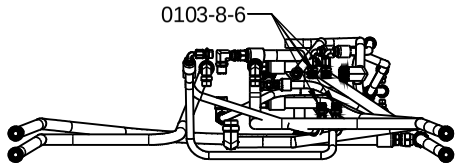


TOP VIEW



RIGHT SIDE





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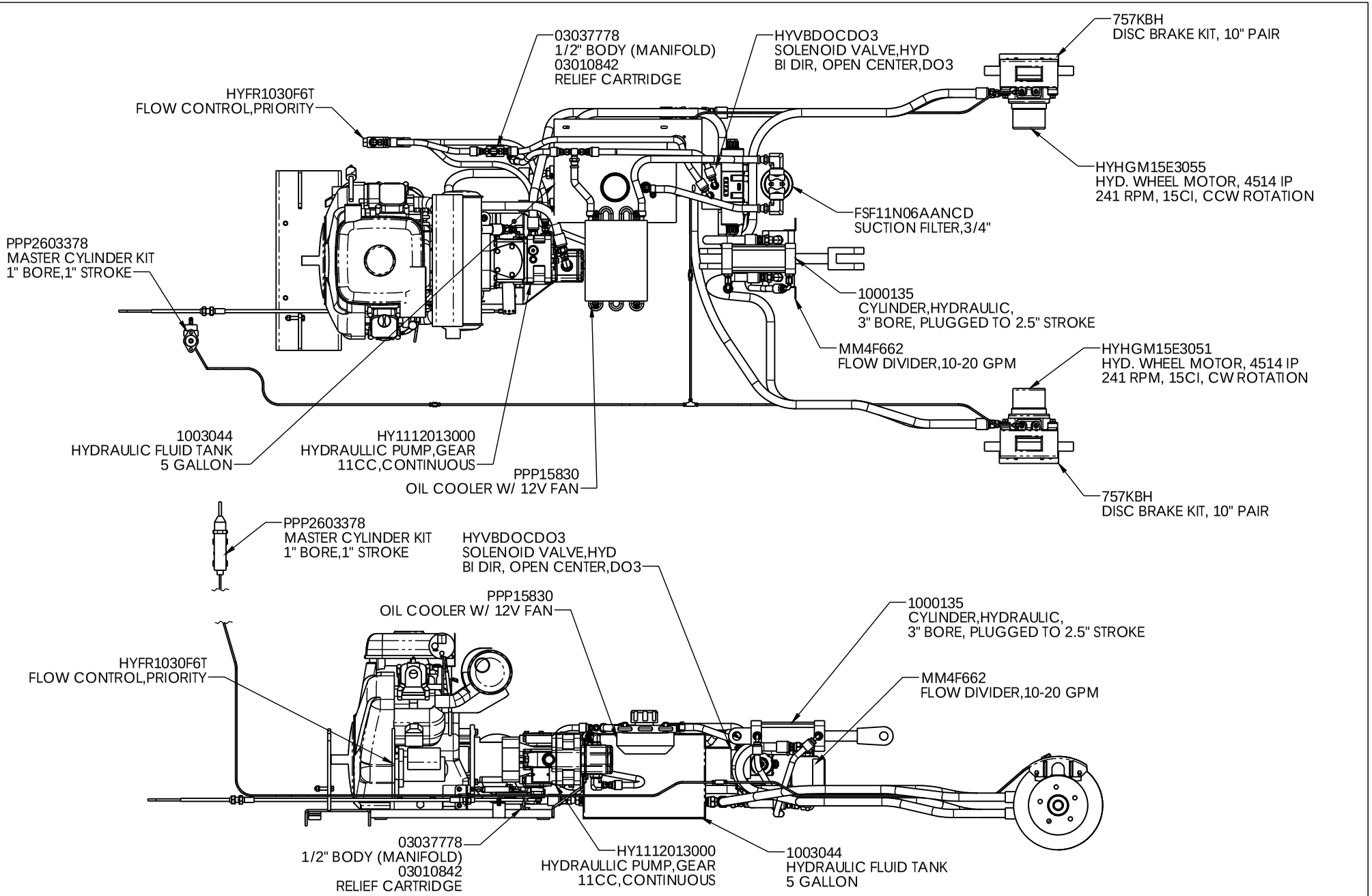
FINISH	DEFAULTS
PLAIN/CLEAN	COUNTERSINKS:
BURR BENCH	
BLACKOXIDE	
HEAT TREAT	
SAND BLAST	
BUFF	
PAINT	
CLEAR CHROMATE	
TIMESAVE	
OIL	
Weld	

ATLANTA ATTACHMENT COMPANY

NAME	HYDRAULIC HOSE KIT
2nd DES.	757BFBO
MATERIAL	PURCH
ASSEMBLY	757BFBO-HYD
PART NO.	0713001HA06800
DES. BY	RICH BROCK
DR. BY	RICH BROCK
CK. BY	
SCALE	1:9
DATE:	7/19/2013
DWG SIZE:	C
WEIGHT	
DRAWING NO.	9005016
REV	0

S:\PPP\0713001HA06800



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2013

FINISH	DEFAULTS
PLAIN/CLEAN	COUNTERSINKS:
BURR BENCH	
BLACKOXIDE	
HEAT TREAT	
SAND BLAST	
BUFF	
PAINT	
CLEAR CHROMATE	
TIMESAVE	
OIL	
Weld	

ATLANTA ATTACHMENT COMPANY

NAME	HYDRAULIC LINE ROUTING
2nd DES.	& FITTINGS,757BFBO
MATERIAL	NOTED
ASSEMBLY	757BFBO
PART NO.	757BFBO-HYD
DES. BY	EG
DR. BY	RICH BROCK
CK. BY	-
DRAWING NO.	9005016
REV	0
SCALE	1:8
DATE:	3/15/2013
DWG SIZE:	C
WEIGHT	

S:\PPP\757BFBO-HYD

Priceless Aviation Products Limited Warranty

1) **WHAT IS COVERED BY THIS WARRANTY**: Priceless Aviation Products, makes the following warranty to the original purchaser only:

Within one year of the date of delivery, Priceless Aviation Products provides a limited warranty on all materials and workmanship. If the Purchaser discovers within this warranty period a defect in materials or workmanship, he must promptly notify Priceless Aviation Products in writing of the defect. In no event shall such notification be received by Priceless Aviation Products later than (13) months from the date of delivery. Within a reasonable time after such notification, Priceless Aviation Products, will correct any defect in material or workmanship on the Priceless Aviation Products equipment, with either new or used replacement parts. Such repair, including parts and labor, shall be at the expense of Priceless Aviation Products, and,

All warranty service must be performed by authorized representatives of Priceless Aviation Products. For warranty service, contact in writing: Priceless Aviation Products, LLC, 362 Industrial Park Drive, Lawrenceville, GA 30046

2) **WHAT IS NOT COVERED BY THIS WARRANTY**: Priceless Aviation Products does not warranty: (a) batteries, tires, and other products, components or parts not manufactured by Priceless Aviation Products; (b) repairs made by unauthorized persons; (c) damage caused by use of the Priceless Aviation Products Equipment for purposes other than those for which it was designed; (d) damages caused by disasters such as fire, flood wind and lightning; (e) damages caused by neglect, abuse, abnormal use, improper or unreasonable use, accident, or misuse; (f) damages caused by unauthorized attachments, alterations or modifications; (g) Priceless Aviation Products Priceless Aviation Products equipment which has the serial number removed or made illegible; or (h) normal wear of the Priceless Aviation Products equipment.

   Service calls and/or transportation of product to and from the dealer's or service center's place of business, for any premium charged for overtime labor requested by the purchaser, and for any service and/or maintenance not directly related to any defect covered under the warranties below.
3) **DISCLAMER OF WARRANTY**: THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. HOWEVER, IF THE Priceless Aviation Products EQUIPMENT IS PURCHASED AS A CONSUMER PRODUCT, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS LIMITED TO THE DURATION OF THIS LIMITED WARRANTY, THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.
4) **LIMITATION OF REMEDIES**: In no case shall Priceless Aviation Products be liable for any special, incidental, or consequential damages based upon breach of warranty, breach of contract, negligence, strict liability in tort, or any other legal theory. Such damages include, but are not limited to, loss of profits, loss of savings or revenue, loss of use of the Priceless Aviation Products or any associated equipment, cost of capital, cost of any substitute equipment, facilities, or services, downtime, the claims of third parties including customers, and injury to property. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you
5) **TIME LIMIT**: Any action for breach of warranty must be commenced within sixty (60) months following delivery of the goods.
6) **NO OTHER WARRANTIES**: Unless modified in writing, signed by both parties, and approved by the President of Priceless Aviation Products, this agreement is understood to be the complete and

exclusive agreement between the parties, superseding all prior agreements, oral or written, and all other communications between the parties relating to the subject matter of this agreement. No employee of Priceless Aviation Products or any other party is authorized to make any warranty in addition to those made in this agreement.

7) **ALLOCATION OF RISK**: This agreement allocates the risks of product failure between Priceless Aviation Products, and the purchaser. This allocation is recognized by both parties and is reflected in the price of the goods.
8) **SECURING WARRANTY SERVICE**: To ensure warranty service, the purchaser must (1) report the product defect to an authorized dealer in writing and request repair within the applicable warranty term, (2) present evidence of the warranty start date, and (3) make the product available to the dealer or service center within a reasonable period of time.
9) **NO DEALER WARRANTY**: The selling dealer makes no warranty of its own and the dealer has no authority to make any representation or promise on behalf of Priceless Aviation Products, or to modify the terms or limitations of this warranty in any way.

THIS EQUIPMENT LIKE ANY OTHER POWERED EQUIPMENT IS POTENTIALLY DANGEROUS UNLESS PROPERLY OPERATED BY QUALIFIED PERSONNEL. Any Operator MUST be cautious and keep safety in mind at all times. Any operator, prior to using the Priceless Aviation Products Equipment, should thoroughly familiarize himself with the owner's manual regarding operation and safety of the equipment, as well as all safety warnings on the machine itself.

WARRANTY REGISTRATION

The Warranty Registration Form MUST be completed and signed by the original purchaser.
For validation, the completed Warranty Registration form MUST be forwarded to Priceless Aviation Products, within ten (10) days following the date of purchase.
The date of purchase constitutes delivery.

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