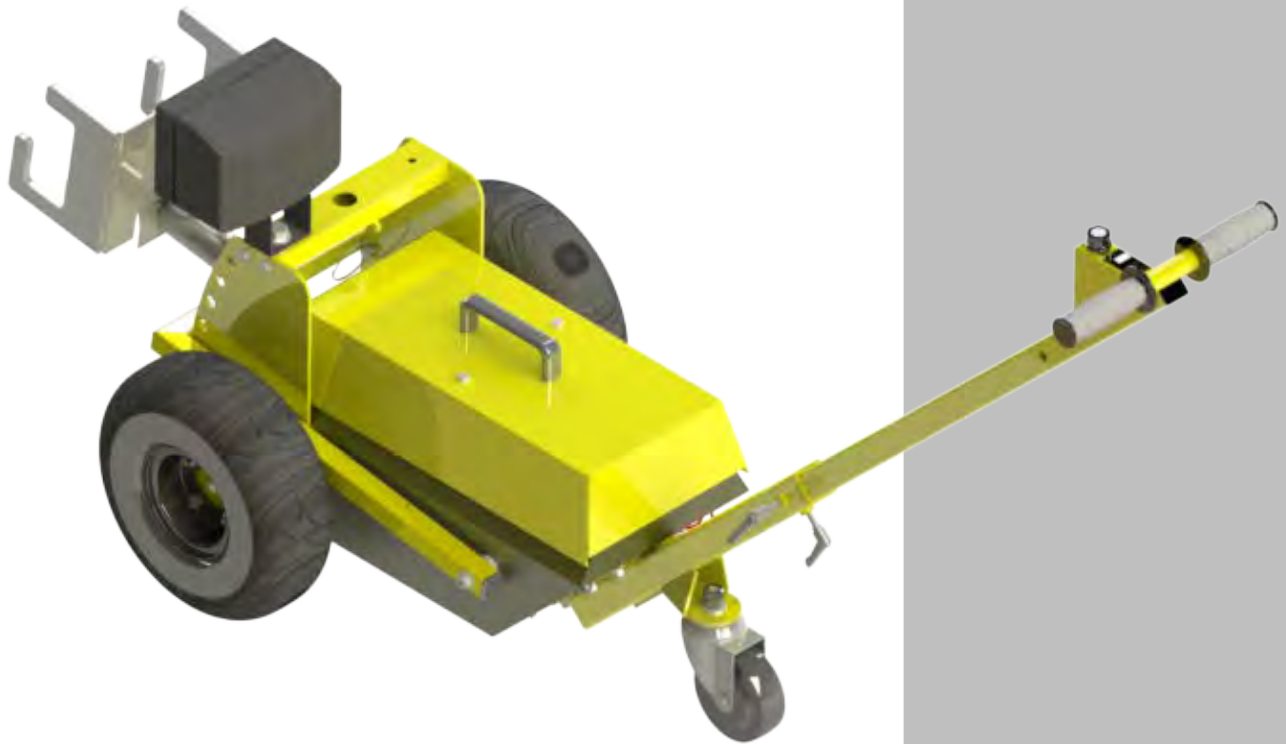




Model **701D**

Revision 2 Updated Dec 14, 2015

# Technical Manual & Parts Lists



**Atlanta Attachment Company**

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Lawrenceville, GA 30046

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# ATLANTA ATTACHMENT COMPANY, INC.

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## **IMPORTANT**

**It is important to read and understand the information contained within this manual before attempting to operate the machine. Atlanta Attachment Co., Inc. 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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## Safety Instructions



**WARNING:** All persons involved in operating and/or performing maintenance to this equipment should read and follow the instructions of this manual. Use this equipment only in the way this manual explains. The incorrect use can cause damage to the equipment or personal injuries. It is the responsibility of the owner to be sure that the operator of this equipment read and understand this manual before operate it. It is also the responsibility of the owner to be sure that the operator is qualified and in good physical conditions, and also has the adequate training in its operation.

### General



The guidelines on security mentioned in this manual cover the entire line of products manufactured by Atlanta Attachment Company. Some warnings and instructions may not be applied to this unit in particular. All maintenance should be performed by a qualified technician.

Security should be a constant concern for everybody. Always be very careful when working with this equipment. Although all normal security precautions were taken in the design and fabrication of this equipment, there are some potentially risk factors of security.

- Warning labels of specific security can be found on the equipment near to the immediate areas of potential danger. These labels shouldn't be eliminated or erased. Replace them if they turn unreadable.

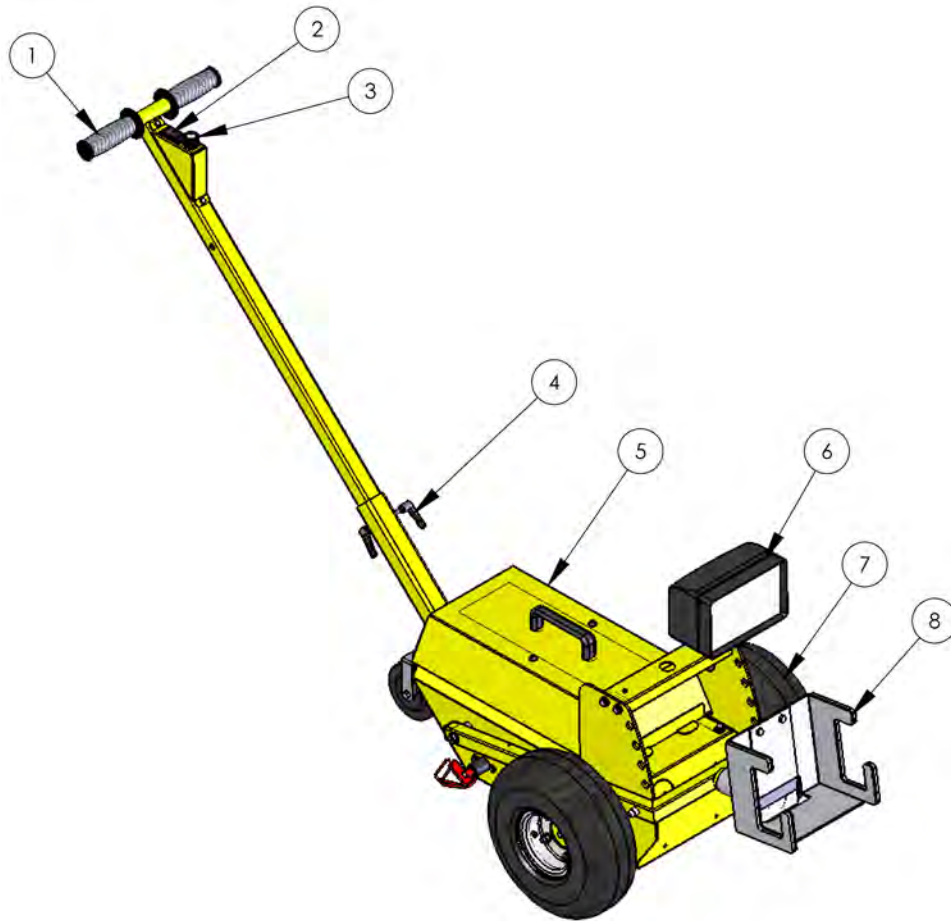
- ALWAYS keep safety shields and covers in place, except for servicing.
  - ALWAYS operate equipment in daylight or with adequate working lights.
  - Follow daily and weekly checklists, making sure hoses are tightly secured and bolts are tightened.
  - ALWAYS watch and avoid holes or deep depressions.
  - ALWAYS wear adequate eye protection when servicing the hydraulic system and battery.
  - NEVER operate a poorly maintained machine.
  - NEVER 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 attempt to make any adjustments or repairs to the machine while running. Repairs or maintenance 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.
  - NEVER touch hot parts of machine.
- 
- Do not operate the machine in areas where it can fall or overturn .
  - Wet terrain can affect dramatically the traction.

# 1.- INSTALATION MANUAL`



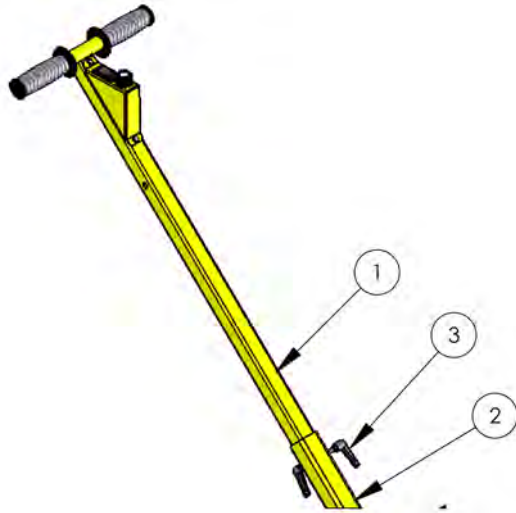
**WARNING:** *It is important that the utility tug operator read this manual and is familiar with all the functions and safety concerns of the unit before operating.*

## 1.1.- Pieces and Components



1	Handle	7	Tires
2	Forward/Reverse switch	8	Tighten the Cart Clamp
3	Speed Control		
4	Adjust height of Handle		
5	Batteries Chamber		
6	Light		

## 2.2.- Handle Bar Installation



**1. Push the handle tube (1) inside the receiving tube (2).**

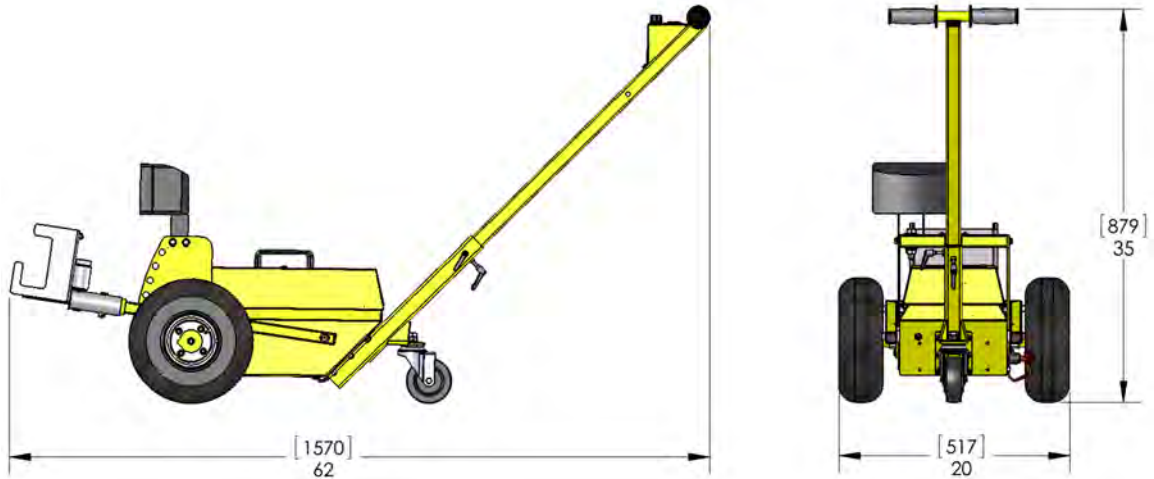
2. Position the lever at the desired height and tighten the threaded shaft (3) to set its location.

## 2.3.- Specifications

Effective Power	400W
Motor Voltage	24 V CC
Voltage Charger	1 ph 110/240V 50/60 Hz
Maximum Speed	3,7 mph / 6 kph
Battery Duration	3 hrs
Weight	110 Lbs / 50 Kgs

## 2.4.- Dimensions

Aprox. 62 "x 35" x 20 "(1570mm x 879mm x 517mm) depending on accessories



## 2.5.- Options

- Hitch ball attachment to facilitate movement of boats and trailers.



- Light



- Adapters

- Batteries



- Clamps depending on hooks



## 2.- OPERATING MANUAL



**WARNING:** *It is important that the utility tug operator read this manual and is familiar with all the functions and safety concerns of the unit before operating.*

### 2.1.- General Description

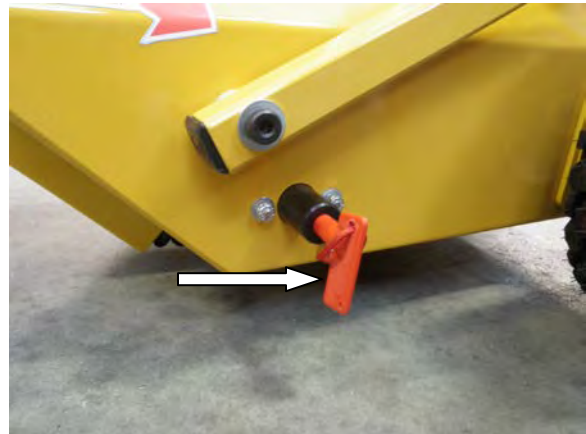
This equipment is designed to move loads in flat surfaces to a maximum weight of 4.700 lbs. (2.000 Kgs.). There is not any other particular use implicit.

#### a.- Main Switch.



**WARNING:** *The unit should remain de-energized when is not in use.*

The main Switch is located in the bottom right. It is responsible for cutting the energy to the unit.



#### b.- Control Lever

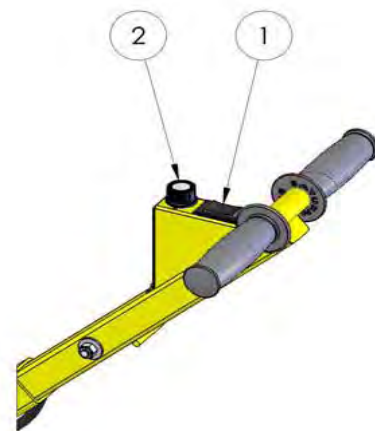
The main operator control is located on top of the control handlebar. It consists of the following parts:

#### c.- Direction Control (1)

The utility tug moves forward or reverse by pressing the corresponding side of the forward/reverse switch (1). It has three positions: Forward / Reverse / Center (Off).

#### d.- Speed Control (2)

Turn the speed control to the right to increase speed. Turn the speed control in the opposite way to reduce speed. The motor control has a “soft start” and “soft stop”, function that allows it to maneuver carefully.



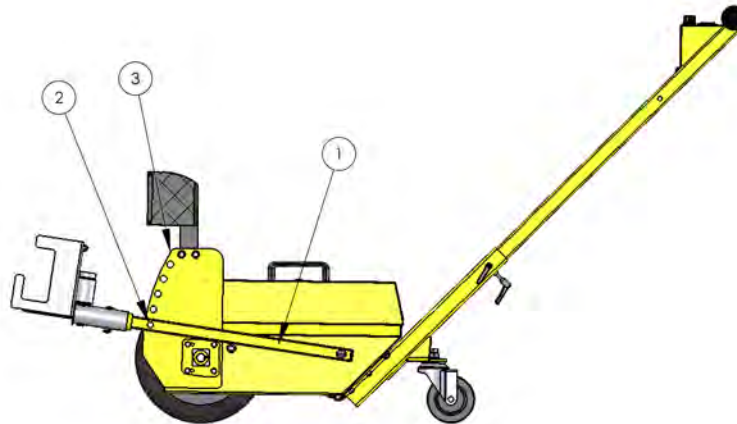


## 2.2.- Operation



**WARNING:** It is important that the utility tug operator read this manual and is familiar with all the functions and safety concerns of the unit before operating.

### a.- Adjusting the Chassis Height

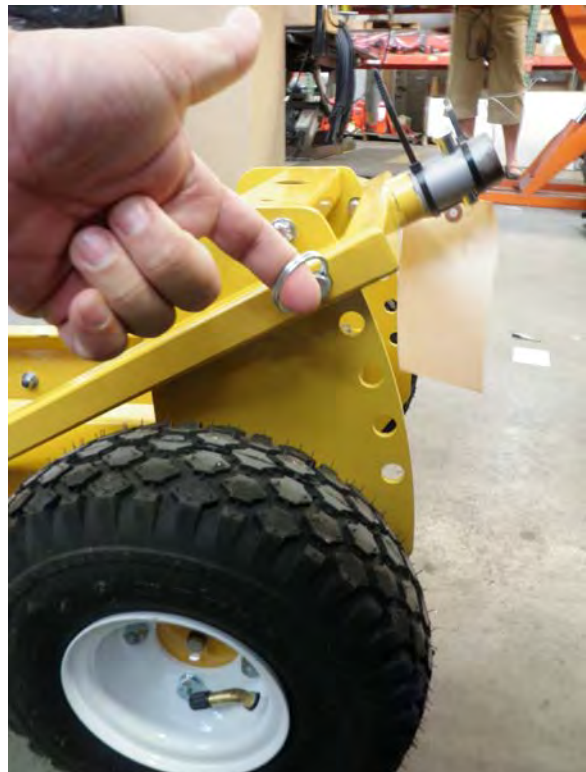


When the utility tug and the car to be towed are connected, it should be a minimum of two inches (51mm) free space between the ground and the rest of the foot in the utility tug. This assures that the utility tug will be able to pass over any irregular surface and ensures the traction of the equipment.

The adjustment is to change the angle of the clamp (1).

1. Remove the clevis pins (2) of the side plates.

2. Align the holes in the clamp with the corresponding holes in the side plates which provide the necessary angle to reach the minimum space of 2"



## b.- Operating the Unit



**WARNING:** Before operating the utility tug, the operator should be completely familiar with the proper use and functioning of the equipment, it should read the manual totally, and it should have practiced the slow maneuvers to be very familiar with the functioning of the equipment before try an operation at a regular speed.

1. If it is necessary install a new battery (see battery replacement)

2. Turn the switch On/Off to the On position. The utility tug is active and ready to function. Remember that when the operation is completed return the switch to the Off position.

3.- Turn the speed potentiometer de counterclockwise to reach a slow speed.



**WARNING:** It is advisable to practice all maneuvers to become familiar with the speed, controls and directional methods before trying regular speed.

4.- Grab the handlebar firmly with both hands. Active with one finger the directional button and follow the force exerted by the tug. Readjust the potentiometer if it is necessary. Turn the speed control to the right to increase speed. Turn the control in the opposite direction to reduce speed



**Note:** The Tug electronics will shut off automatically in case of over or under load.

5.- Turn the handlebar in the desire direction.

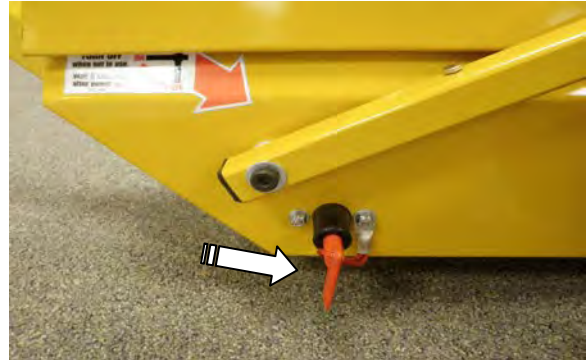




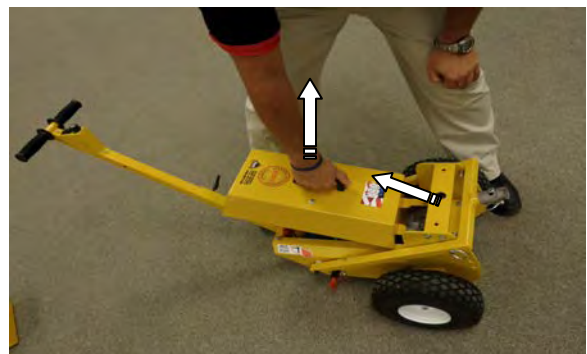
## 2.3.- Replacing the Battery

**WARNING:** Always wear appropriate protectors when handling batteries.

1.- Before taking out the battery from the unit be sure that the switch On/Off is in the Off position.



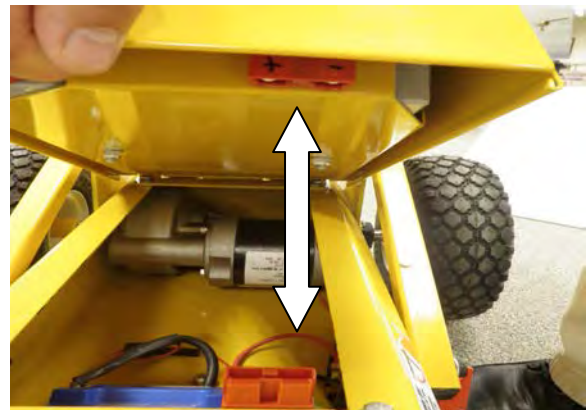
2.- Grab the battery from its handle, push it up and remove it from its chamber..



3.- Do the opposite to place the battery back.



4.- Be sure that the battery connector snaps into the receptacle of the unit.





## 2.4.- Charging the Battery



**WARNING:** Always wear appropriate protectors when handling batteries

Before connecting the battery to the charging unit, be sure that the switch On/Off is in the Off position

1. Plug the cable from the load unit to an AC power source. (110 / 240 volts 50/60 Hz).

2. Take the battery by the carrying handle and insert it into the charging receptacle; ensure it is attached to the connector receptacle



3.- Make sure the connectors are coupled.



4.- Change the position of the switch to On.



5.- The charger unit will determine automatically the batteries status and it will charge them accordingly with their status. A FLICKERING light in the charger (Red Arrow) will indicate that the batteries are fully charge. A STEADY light in the charger indicates that charge is in progress. Once the charge is finished, turn the switch off and remove the battery.



### 3.- SERVICE MANUAL



**WARNING:** *It is important that the utility tug operator read this manual and is familiar with all the functions and safety concerns of the unit before operating.*

#### 3.1.- Tire Specifications

It is important that the tires are inflated and that both have a pressure of 25 psi. (1.7 bar) For heavy load operations reduce the pressure of the tires a 20 psi. (1.4 bar) These lower pressures allow a better grip and prevent with heavy loads the tires from sliding.



**WARNING:** *Use extreme precaution when inflating the tires. Avoid over inflation because there is a danger of explosion.*

#### 3.2.- Preventive Maintenance

Regular maintenance is the best prevention to avoid costly downtime and early repair jobs

##### a.- Daily

- 1.- Keep the unit clean; remove deposits of dirt and debris that can cause malfunctions etc.
- 2.- Clean grease deposits, oil and debris, especially in the battery area.
- 3.- Make sure there are not threads or strings of rope entangled in the tires.



**NOTE:** *This unit does not require practically of a preventive maintenance but the following recommendations are important:*

- a.- Be aware of noises that could potentially indicate a problem.
- b.- Inspect visually the unit for any abnormal wear or damages.
- c.- A good moment to detect potential problems is with a programmed maintenance. To fix the problems as quick as possible is the best insurance.

PIN, SPRING & SPACER COME WITH CLAMP ASBLY

AR\* OPTIONAL ITEM

ITEM NO.	Hardware Shown, Cover Closed/Qty.	PART NUMBER	DESCRIPTION
1	2	1002390	SPACER
2	1	1002418	WELDMENT FRAME PIVOT
3	1	1002604	CHARGING STATION
4	2	1002609	BATTERY PACK, REMOVABLE
5	1	1002610	BATTERY BOX RETAINER
6	1	1002611	BATTERY BOX RETAINER
7	1	1002612	HANDLE ASSEMBLY
8	AR*	1002614	CART CLAMP ASBLY
9	1	1002650	TUG SUB-ASBLY, 701
10	1	1002699	HANDLE BASE WELDMENT
11	1	1002700	WIRING DIAGRAM MOTOR CNTR
12	1	201A-WD	WIRING DIAGRAM POWER
13	AR*	201D-WD	WIRING DIAGRAM MOTOR
14	1	EE500	LIGHT FLOOD WATERPROOF
15	1	1447261-2002	CONTRACTOR CONDUIT BRAD RED
16	2	MA15/4-20	CASTER RUBBER, 4
17	6	NNH1/4-20	CASTER RUBBER, 6
18	1	NNH5/16-18	CASTER RUBBER, 1/4-20
19	3	NNH5/16-13	CASTER RUBBER, 1/2-13
20	2	NNH1/2-13	5/16-18 HEX NUT
21	2	NNK6-32	1/2-13 JAM NUT
22	2	PPRMANUAL	KEEP NUT, 6-32
23	2	SSA5024096	CD MANUALS AND VIDEOS
24	2	SSP580048	SHOULDER BOLT 3/8 X 1.50L
25	2	TH32415	#6-32 X 3/4 LG PAN HD
26	3	WWF5/16	HANDLE THREADED, 1/4-20X7/16
27	3	WWF5/16	WASHER FLAT SAE, 1/2
28	2	WWF5/16	WASHER FLAT SAE, 3/8
29	1	WWL1/2	WASHER LOCK, 5/16
30	1	SSHC45144	1/2 LOCK WASHER
31	1	SSHC45144	1/2-13X2 HEX CAP

FINISH: 1135Z2, 1135Z1, 1135Z0, 1135Z3, 1135Z4, 1135Z5, 1135Z6, 1135Z7, 1135Z8, 1135Z9, 1135Z10, 1135Z11, 1135Z12, 1135Z13, 1135Z14, 1135Z15, 1135Z16, 1135Z17, 1135Z18, 1135Z19, 1135Z20, 1135Z21, 1135Z22, 1135Z23, 1135Z24, 1135Z25, 1135Z26, 1135Z27, 1135Z28, 1135Z29, 1135Z30, 1135Z31, 1135Z32, 1135Z33, 1135Z34, 1135Z35, 1135Z36, 1135Z37, 1135Z38, 1135Z39, 1135Z40, 1135Z41, 1135Z42, 1135Z43, 1135Z44, 1135Z45, 1135Z46, 1135Z47, 1135Z48, 1135Z49, 1135Z50, 1135Z51, 1135Z52, 1135Z53, 1135Z54, 1135Z55, 1135Z56, 1135Z57, 1135Z58, 1135Z59, 1135Z60, 1135Z61, 1135Z62, 1135Z63, 1135Z64, 1135Z65, 1135Z66, 1135Z67, 1135Z68, 1135Z69, 1135Z70, 1135Z71, 1135Z72, 1135Z73, 1135Z74, 1135Z75, 1135Z76, 1135Z77, 1135Z78, 1135Z79, 1135Z80, 1135Z81, 1135Z82, 1135Z83, 1135Z84, 1135Z85, 1135Z86, 1135Z87, 1135Z88, 1135Z89, 1135Z90, 1135Z91, 1135Z92, 1135Z93, 1135Z94, 1135Z95, 1135Z96, 1135Z97, 1135Z98, 1135Z99, 1135Z100.

CONNECTIONS: 1135Z101, 1135Z102, 1135Z103, 1135Z104, 1135Z105, 1135Z106, 1135Z107, 1135Z108, 1135Z109, 1135Z110, 1135Z111, 1135Z112, 1135Z113, 1135Z114, 1135Z115, 1135Z116, 1135Z117, 1135Z118, 1135Z119, 1135Z120, 1135Z121, 1135Z122, 1135Z123, 1135Z124, 1135Z125, 1135Z126, 1135Z127, 1135Z128, 1135Z129, 1135Z130, 1135Z131, 1135Z132, 1135Z133, 1135Z134, 1135Z135, 1135Z136, 1135Z137, 1135Z138, 1135Z139, 1135Z140, 1135Z141, 1135Z142, 1135Z143, 1135Z144, 1135Z145, 1135Z146, 1135Z147, 1135Z148, 1135Z149, 1135Z150, 1135Z151, 1135Z152, 1135Z153, 1135Z154, 1135Z155, 1135Z156, 1135Z157, 1135Z158, 1135Z159, 1135Z160, 1135Z161, 1135Z162, 1135Z163, 1135Z164, 1135Z165, 1135Z166, 1135Z167, 1135Z168, 1135Z169, 1135Z170, 1135Z171, 1135Z172, 1135Z173, 1135Z174, 1135Z175, 1135Z176, 1135Z177, 1135Z178, 1135Z179, 1135Z180, 1135Z181, 1135Z182, 1135Z183, 1135Z184, 1135Z185, 1135Z186, 1135Z187, 1135Z188, 1135Z189, 1135Z190, 1135Z191, 1135Z192, 1135Z193, 1135Z194, 1135Z195, 1135Z196, 1135Z197, 1135Z198, 1135Z199, 1135Z200.

NAME: CARL TUG  
2nd DES: DETACHABLE BATTERY  
MATERIAL NOTED  
PART NO. 701D  
DES BY: PRD  
DATE: 7/10/11  
SCALE: 1:10  
DATE: 6/10/2011  
DWG. USE: B  
PAGES: 44, 25, 27  
REV: 5

ATLANTA ATTACHMENT COMPANY

FOR MODELS WITH NON CASTER HANDLE BAR MOUNT USE 1002692 TO UPDATE WITH CASTER.

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XXX-11

5:\VPP\701D

SHEET OF 2

ITEM NO.	Hardware Shown/Qty.	PART NUMBER	DESCRIPTION
1	1*	701A-WD	WIRING DIAGRAM MOTOR CNTR
2	1	1002342	WELDMENT CROSS TUBE
3	2	1002381	SIDE PLATE
4	1	1002468	BATTERY DISCONNECT SWITCH
5	1	1002469	BUMPER ADJ ARM
6	2	1002550	RETAINER TRANSAXLE
7	2	1002566	NUT PLATE
8	1	1002660	CONTROLER PROGRAMMABLE
9	1	1002777	BOX FRAME WELDMENT
10	1*	EE276-1281	INLINE FUSE HOLDER
11	1*	FF27D-1015	FUSE 10A FAST BLOW
12	8*	PF5556	FEMALE PIN 16-27 GA
13	1*	FF5557-16R	RECEPTACLE 16 PIN
14	2	MW9520A-693	CLEVIS PIN 1/2"D. 1.3" L
15	2	NN10-32	NUT ELASTIC LOCK
16	4	NN68-32	NUT KEF-B-32
17	2	PPP701 WHEEL ASSY	WHEEL ASSEMBLY
18	1	PPP45292100	MOTOR MK-400 SERIES
19	5	SHC01064	1/4-20 X 1 HHCS
20	4	SSH0900325	#8-32 X 1/2 HEX CAP
21	2	SHC96048	SCREW HEX CAP # 10-32X.75
22	8	SSH06A0205	SCREW HEX CAP # 10-32X.75
23	8*	TI8628	TERMINAL RING #10 STD
24	2*	TI8628	TERMINAL RING #10 STD
25	3*	TI865063	TERMINAL 25 FULLY INSUL
26	2	WI17	CABLE GRP FOR 3 #14 WIRE
27	1	WWF1/4	WASHER FLAT 1/4" COM
28	4	WWS1/4	WASHER FLAT SAE 1/4
29	2	WWS10	WASHER FLAT #10 SAE
30	4	WW11/4	WASHER LOCK 1/4
31	8	WW1M6	WASHER LOCK M6

\* NOT SHOWN

REV	DATE	BY	CHKD	DESCRIPTION
5	2018	10/11	MS	REV
4	2018	11/13	TM	REV
3	12/21/11	8/15	TM	REV
2	11/25/11	8/15	TM	REV
1	10/01/11	8/09	TM	REV
ASL	03/01/06	DATE	02/11/06	REV

FINISH: DEFAULTS  
CONFORMS:

NAME: TUG SUB-ASSEMBLY 701  
2ND DESL: ATLANTA ATTACHMENT COMPANY  
MATERIAL NOTED:   
ASSY: 701C-701D  
DES BY: PRD  
DRAWING NO.: 1002650  
JOB REF: PRD  
DATE: 7/22/2011  
PAGE: 1/6  
REV: 5

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SHEET OF 1

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