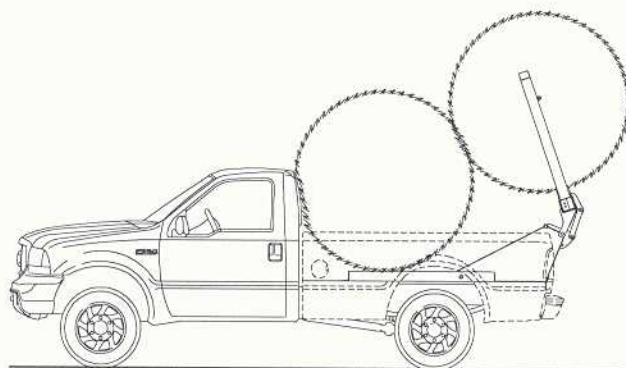


305 Bale Pick-up

OPERATION & SERVICE MANUAL



DewEze MANUFACTURING
HARPER, KANSAS

FOR YOUR RECORDS

Date of Purchase _____

Dealer's Name _____

Dealer's Phone _____

Serial Number _____

Last update:

3/99

Following publication of this manual, certain changes in standard or optional equipment may have occurred which would not be included in these pages. Your DewEze dealer is the best source for up to date information.

DewEze Manufacturing reserves the right to change product specifications at any time without incurring obligation to provide such updates to previously manufactured units.

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151 E. Hwy. 160
Harper, KS 67058

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DEWEZE MANUFACTURING

WARRANTY POLICY

Statement of Warranty

DewEze Manufacturing warrants to each purchaser of DewEze new equipment from an authorized dealer or representative that such equipment to be free from manufacturing defects in normal service for a period of one (1) year commencing with delivery to the original user.

The obligation of DewEze Manufacturing under this warranty is expressly limited, at our option, to replacement or repair at DewEze Manufacturing, 151 E. Hwy. 160, Harper, Kansas 67058, or at a service facility designated by DewEze Manufacturing of such parts or part as inspection shall disclose to have been defective. This warranty does not apply to defects caused by damage or unreasonable use (including failure to provide reasonable and necessary maintenance) while in the possession of the consumer.

DewEze Manufacturing **shall not be liable for consequential damages of any kind**, including but not limited to, consequential labor costs or transportation charges in connection with replacement or repair of defective parts.

DewEze Manufacturing makes no warranty with respect to trade accessories. They are subject to the warranties of their manufacturers.

Any implied or statutory warranties, including any warranty of merchantability or fitness for a particular purpose, are expressly limited to the duration of this written warranty. DewEze Manufacturing makes no other express warranty, nor is anyone authorized to make in behalf of DewEze Manufacturing.

For information on warranty procedures please contact your nearest dealer.

365 BALE PIK-UP SPECIFICATIONS

Weight Frame Only.....720 lbs.

Weight Frame with E/H Unit.....800 lbs.

Frame Length.....83 Inches

Frame Width

Front.....42 Inches

Rear.....37 Inches

Distance Between Arms:

Open.....86 Inches

Closed.....52 Inches

with 4FT Bale Adapters

Open.....75 Inches

Closed.....41 Inches

Lifting Capacity.....2000 lbs

Hydraulics:

Self-Contained 12VDC Electric/Hydraulics

Under Hood Hydraulics

Minimum Hydraulic Requirements.....2250 PSI, 1.5 to 2.0 GPM

Truck Requirements:

1. Truck should be of 3/4 Ton or equivalent rating to handle the bale weight properly.
2. A high AMP battery and heavy duty alternator are optimum for the Electric Power unit system. An additional battery wired appropriately is recommended.

SAFETY PRECAUTIONS

Read this manual carefully. It will instruct you on how to operate and service your machine safely and correctly. Failure to do so could result in personal injury and/or equipment damage.

1. Operator should read and understand operators manual before operating BALE PIK-UP.
2. BALE PIK-UP is rated to fit 3/4 ton truck. Check with your truck dealer for load limits in your application, additional suspension or tire changes may be required.
3. BALE PIK-UP main frame must be securely attached to truck bed at front and back before operating.
4. Never stand in truck bed or under hugger arms while operating even when empty. Personal injury may result.
5. Make sure hinges, joints, and sliding parts are well lubricated, especially during off season, to prevent rusting and binding.
6. When carrying a bale down any public road, make sure tail lights are visible.
7. Units are factory set at 2250 PSI. Do not exceed, greater pressure settings may cause damage to unit.
8. The 12 volt solenoids on the E/H control valve are not rated for continuous operation. It is recommended that each solenoid not be used for more than (2) two minutes out of any (5) five minute period.
9. Battery cables should be routed so as to avoid cables hanging down. This will eliminate the possibilities of cables becoming snagged and pulled loose or causing electrical shorts.
10. Battery cables should be hooked directly to battery. It is recommended a high AMP battery and heavy duty alternator be used with Electric/Hydraulic unit to provide optimum service. An additional battery wired appropriately is recommended.

It is the responsibility of the owner and operator to be aware of safety precautions while operating this machine.

OPERATION INSTRUCTION

OPERATION INSTRUCTIONS

Loading Bale:

Back the truck to bale, open hugger arms by pushing out button on hand control. Lower arms by pushing unload button on hand control until arms are beside bale. When arms are aligned with bale push in button on hand control, this will squeeze the bale with arms. To lift bale onto truck push load button on hand control till bale is in bed. To Release bale push out button on hand control till arms clear bale. A second bale can now be loaded. Follow above procedure except do not release bale after bale is loaded onto truck. Bales can now be hauled to your destination.

Unloading Bale:

Reverse above procedures for unloading bales.

Unrolling Bales:

Place the optional Spinners in the eye of the arms. Position the arms over bale so that the Spinners are at the center of the bale. Close arms and pick bale up. To unroll bale, lower arms until bale is on ground, cut strings and drive forward. Gradually lower arms as the bale unrolls.

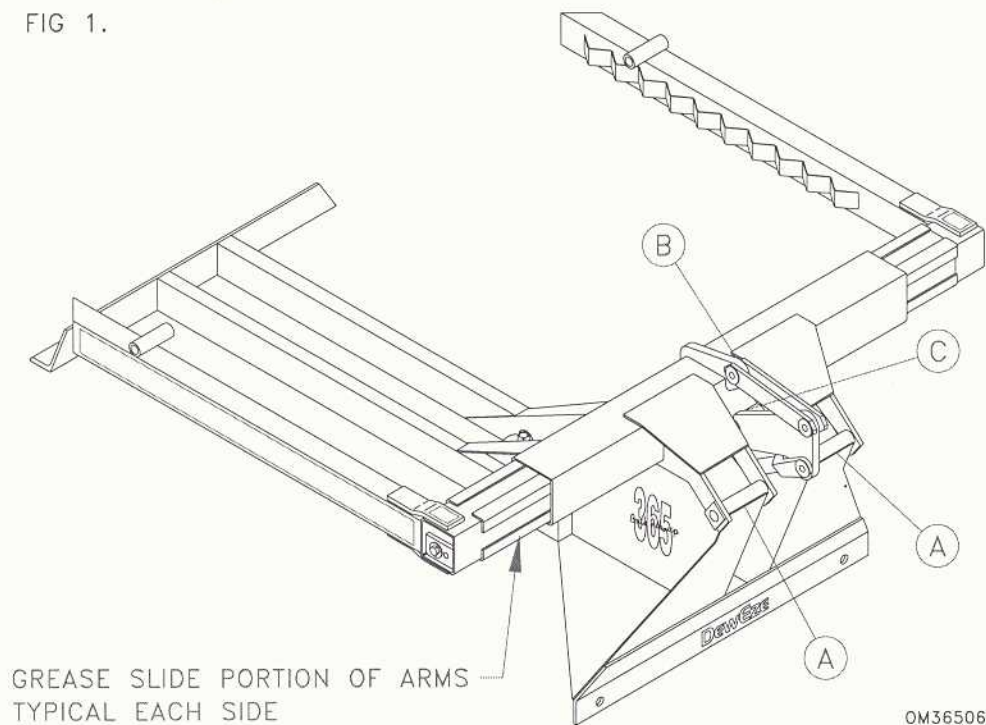
SERVICE & MAINTENANCE

LUBRICATION REQUIREMENTS

Lubrication requirements varies with usage of equipment, operating condition equipment is used in, and loads when operated.

1. Lubricate pivot points A, B, & C on a daily schedule. Apply lubrication to hugger arm slides weekly or as needed. See Fig. 1.
2. Oil Reservoir must be kept full at all times. Fill Reservoir until oil is within 1 to 2 inches from top of Reservoir. Reservoir holds approximately (3) three gallons.
3. Slight oil leaks in system can quickly deplete oil Reservoir and cause serious damage to unit.
4. In cold weather, oil viscosity is higher causing oil to thicken. It is recommended to operate unit unloaded to warm the oil and thin it, before using unit under load.

FIG 1.



INSTALLATION INSTRUCTIONS

INSTALLATION INSTRUCTIONS

The 365 Bale Pik-up can be mounted in a truck bed two ways, permanent mounting or quick attach mounting. Follow the instructions below for which ever application is appropriate.

PERMANENT MOUNT

Remove tail gate from truck. Set Bale Pik-up in truck bed and center. Mark rear mounting holes on truck bed. (Note: Make sure front of Bale Pik-up is setting down on truck bed.) Remove Bale Pik-up and drill marked holes to 13/16" diameter. (Note: Before drilling holes make sure no obstruction are on back side of truck bed. (like wiring harnesses, frame supports)) Place Bale Pik-up on truck bed. Use 3/4" bolts of appropriate length, and place 3/4" flat washers between frame and truck bed, also on back side of hole in truck bed, and outside of frame when attaching Bale Pik-up at rear. Do not completely tighten these bolts at this time.

When attaching front of Bale Pik-up, first measure distance of truck frame width outside to outside, retain this measurement. Frame widths vary from truck manufactures. The front angle on main frame is provided with two slots, these should match any truck frame widths. It is recommended that a mounting plate be fabricated to bolt to outside of truck frame and match up to slots in main frame front angle. **Do not drill thru top flange of truck frame, this can cause frame to fatigue and break.**

When fabricated mounting plates are mounted on truck frame, measure distance from truck frame to mounting hole. Add this dimension twice to frame width measured earlier. Transfer this distance to truck bed and match slots with measurement. Drill 13/16" diameter holes in appropriate slots. (Note: Before drilling holes make sure there is no obstructions. (like wiring harnesses, fuel lines, etc.)) Securely fasten front mounting angle to fabricated mounting plates thru truck bed, this will carry load while loading and unloading bales. After front bolts are tightened securely tighten bolts at rear of Bale Pik-up installed earlier.

QUICK ATTACH MOUNTING

Remove tail gate from truck. Set Bale Pik-up in truck bed and center. Mark rear mounting holes in truck bed. (Note: Make sure front of Bale Pik-up frame is setting down on truck bed.) Move Bale Pik-up frame and drill marked holes to 1 1/16" diameter. (Note: Before drilling check back side of frame for any obstructions. (like wiring harnesses or mounting brackets)) Assemble Quick Attach Pins to rear of frame using 3/4" flat washers, 3/4" lock washers and 3/4" hex nuts. (Note: Quick Attach Pins must face towards truck bed.) Slide Bale Pik-up back onto truck bed, aligning pins and holes in truck bed. Slide pins thru holes making sure unit is completely up against truck bed.

QUICK ATTACH MOUNTING CONTINUED

Now attach front Quick Attach Mounting Plate to front of Bale Pik-up frame. Make sure rear of frame is up against rear of truck bed and Quick Attach Mounting Plate lip is up against front edge of frame angle. The Quick Attach Plate is supplied with (2) two 3/4" diameter holes, fabricate a mounting plate that mounts to outside of truck frame to match these holes. Securely attach Quick Attach Mounting Plate to these fabricated frame mounts with 3/4" diameter bolts and nuts. After Quick Attach Mounting Plate is securely fastened at front, place 1" flat washers over Quick Attach Pins and insert lynch pins.

Bale Pik-up unit can be easily removed by detaching control cable and battery cables at quick disconnects, and removing lynch pins and washers from rear Quick Attach Pins. Slide unit back until front frame angle clears mounting plate and rear pins clear truck bed. Lift unit from truck bed, always replace washers and lynch pin on rear Quick Attach Pins before storing.

When reinstalling unit on truck bed make sure slots under Quick Attach Mounting plate is clean so unit will slide completely into slot.

PARTS LISTINGS

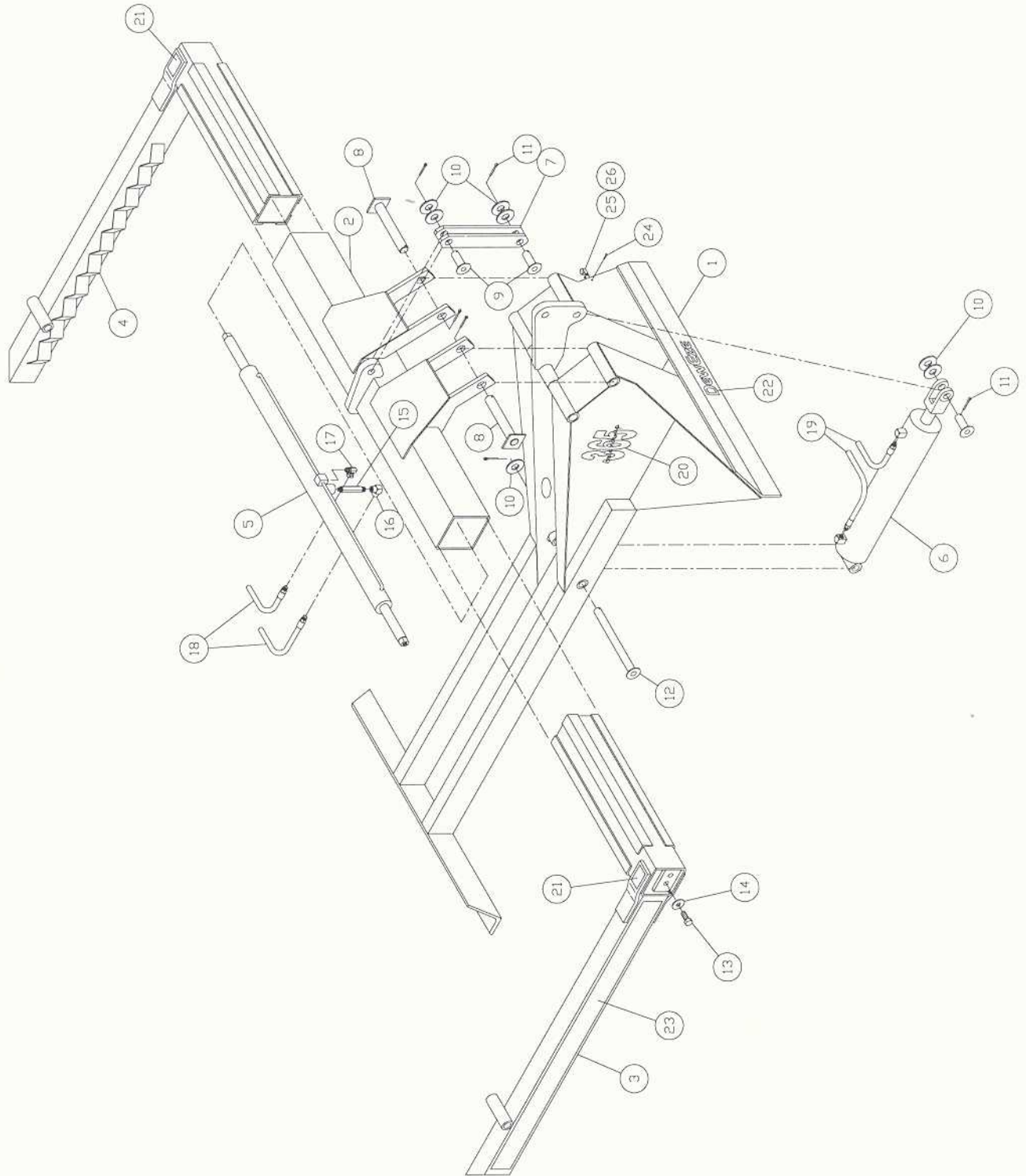
365 FRAME COMPONENTS

<u>Item</u>	<u>Qty</u>	<u>Part No.</u>	<u>Description</u>
1	1	210781	Main Frame Weldment
2	1	210785	Cross Tube Weldment
3	1	210188	Hugger Arm Weldment L.H.
4	1	210227	Hugger Arm Weldment R.H.
5	1	220002	Cylinder Squeeze 2" x 34"
6	1	220478	Cylinder Lift 4" x 18"
7	2	210793	Link Arm
8	2	210795	Riser Pin Weldment
9	2	210221	Link Arm Pin Weldment
10	7	510173	Washer 1.00" Flat SAE
11	4	510175	Cotter Pin .188" x 2.00"
12	1	210852	Cylinder Base Pin
13	2	210128	Bolt .625"-18 x 1.500"
14	2	310344	Washer .625" Flat
15	1	220003	Adapter 6MB-6MP
16	1	220219	Adapter 6FP-6FP90
17	1	220025	Adapter 6MB-6FPX90
18	2	220022	Hose .375" x 47.00"
19	2	220023	Hose .375" x 39.00"
20	2	200141	Decal "365"
21	2	200010	Decal "Danger"
22	1	200105	Decal "Deweze"
23	8.5ft	100478	Decal "Striping"
24	1	110164	Screw #10-24 x .750"
25	1	540078	Nut #10-24 Lock
26	1	200020	Clamp Adel #22

SEAL KITS FOR CYLINDERS

220060	Seal Kit for 220478 Cylinder
220056	Seal Kit for 220002 Cylinder

365 FRAME COMPONENTS

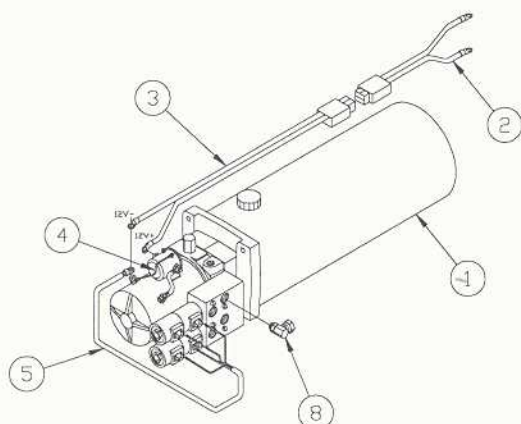


ELECTRIC/HYDRAULIC COMPONENTS

ITEM	PART #	NAME
1	220476	Hydraulic Power Unit 12VDC
2	230116	Battery Cable / Battery End
3	230117	Battery Cable / E/H End
4	230118	Wire / Starter Solenoid Ground
5	230119	Cable / Solenoid Ground
6	230120	Control Cable / E/H Half
7	150025	Hand Control Cable Assy
8	220025	Adapter 6MB/6FPX90
9	410217	Bolt .375"-16 x 3.50"
10	710586	Screw .250" x 1.00"
11	510271	Washer .375" x 1.00"
12	200141	Decal "365"
13	210787	Spacer
14	210848	Motor Shield E/H
15	210870	E/H Valve Complete
16	210871	Solenoid Valve Cartridge (Cartridge includes nut and spacer)
17	210872	Solenoid Coil 12VDC Dual Spade
18	210873	O-Ring #019 Bruna-90
19	210874	Washer .250 Hi-Collar Lock
20	210875	Bolt .250 x 2.250 SHCS Grd8
21	210881	Motor Starter Switch
22	210884	Motor 12VDC
23	210888	Motor Brush Set
24	210880	Relief Valve Kit
25	220066	Pump .194 cu. in.
26	210887	Pump Seal Kit
27	210883	Reservoir
28	210885	Reservoir O-Ring
29	210886	Bolt .250" x .625"
30	220155	Breather/Filler Cap
31	220088	Strainer
32	210882	Pump/Motor Adapter Bracket
33	240001	Motor/Pump Coupler

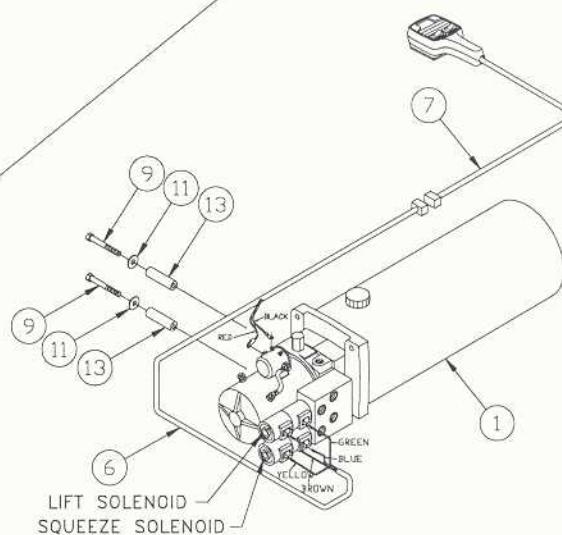
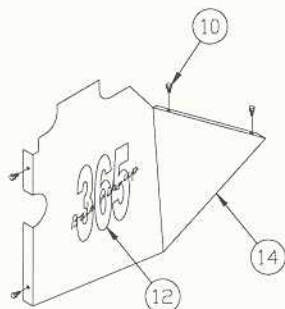
ELECTRIC/HYDRAULIC COMPONENTS

BATTERY CABLE, GROUND & SOLENOID GROUND WIRE HOOK-UPS

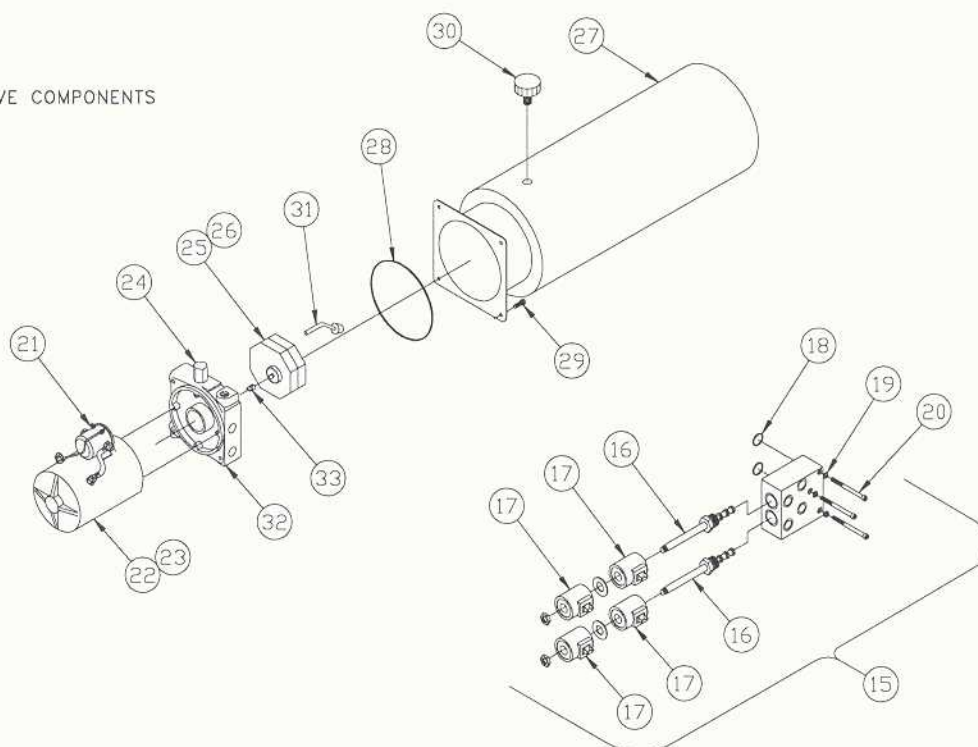


NOTE: CONNECT WIRES TO SPADE CONNECTORS
CLOSEST TO TANK ON EACH SOLENOID.

CONTROL CABLE HOOK-UPS



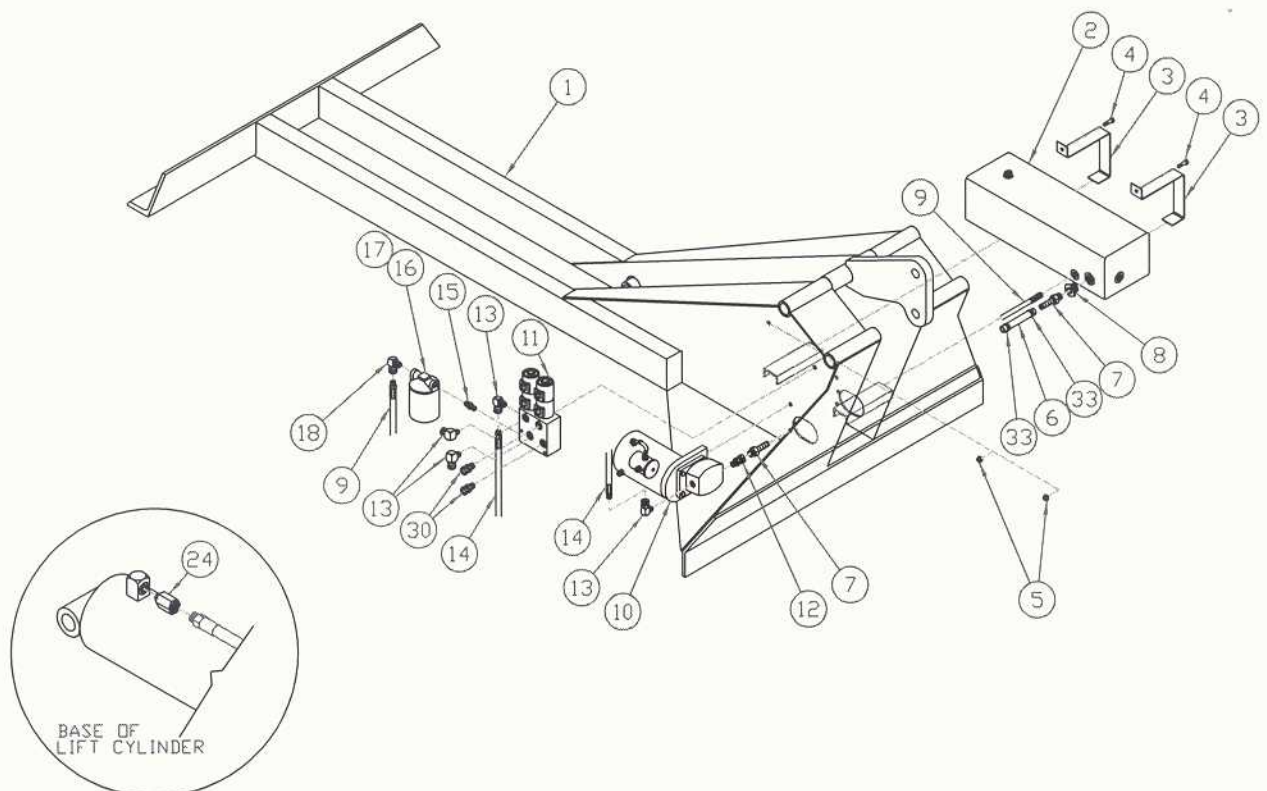
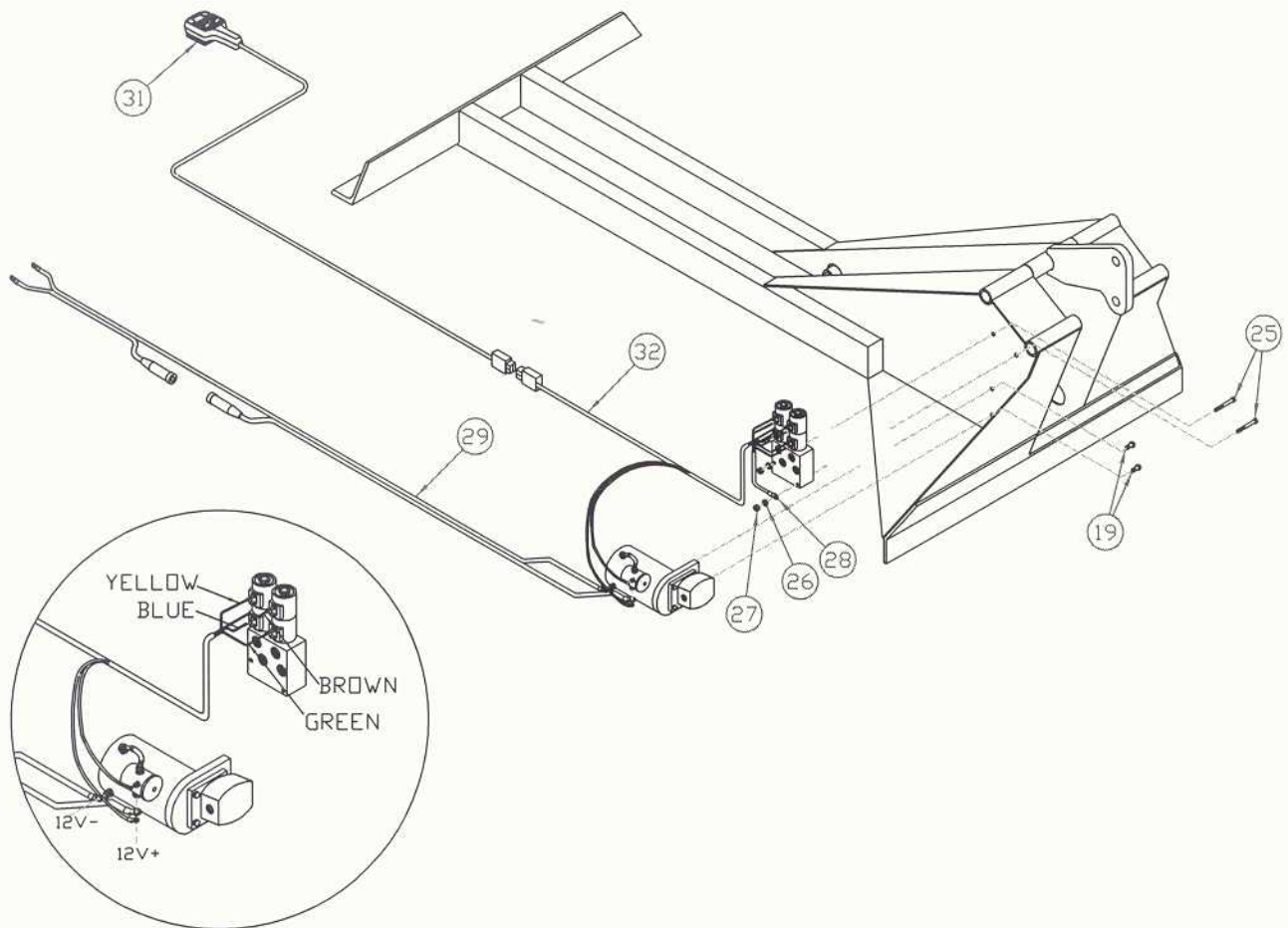
E/H PUMP & VALVE COMPONENTS



ELECTRIC/HYDRAULIC ASSEMBLY

ITEM	PART #	NAME
1	210796	365 Complete
2	220549	E/H Resivior assy.
3	211150	Resivior Straps
4	510090	5/16 x 1.00 Bolt
5	510096	5/16 Wiz Nut
6	220561	Suction Hose
7	520365	Hose End 8-6MP
8	220529	3/4-3/8 NPTBushing
9	220546	Hose assy
10	220562	Pump / Motor
	210884	Motor
	230045	Solenoid
11	220492	Valve
12	720078	Adapter 8MB-6FPX
13	220025	Adapter 6MB-6FPX90
14	220560	Hose assy
15	120074	Adapter 6MB-6MP
16	220558	Spin on Filter Head
17	220559	Filter
18	220108	Adapter 6MP-6FPX90
19	510257	3/8 x 0.750 Bolt
20	710586	1/4 x 1.00 Screw
21	210848	Shield / Resivior
22	211148	Shield / Motor
23	200141	Decal 365
24	220509	Restrictor
25	410216	5/16 x 2.500 Bolt
26	510335	5/16 Lock Washer
27	510208	5/16 Nut
28	230119	Cable Solenoid Ground
29	230145	Battery Cable / 365
30	420041	Adapter 6MB-6FPX
31	150025	Hand Control assy.
32	230120	Control / E/H Half
33	520098	Hose Clamp #10 0.50"

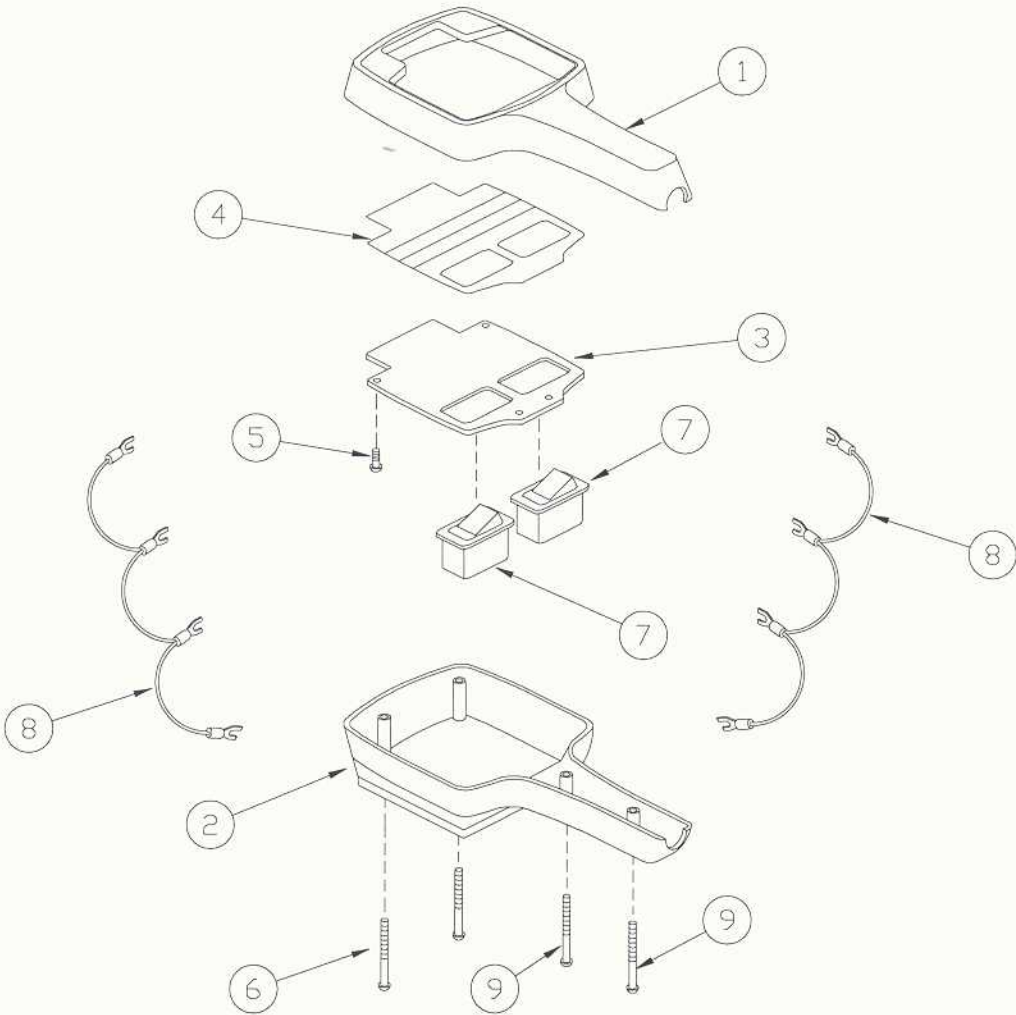
ELECTRIC/HYDRAULIC ASSEMBLY



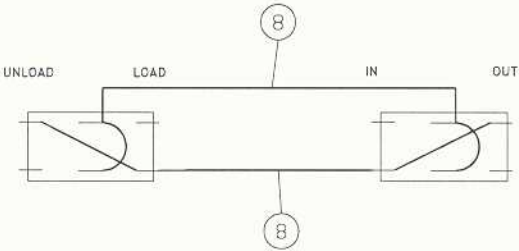
HAND CONTROL COMPONENTS

<u>Item</u>	<u>Qty</u>	<u>Part No.</u>	<u>Description</u>
	1	150025	Hand Control w/Cable Complete
	1	150024	Hand Control Housing Assy
1	1	150001	Top Housing
2	1	150003	Bottom Housing
3	1	150022	Switch Plate
4	1	150023	Decal "Hand Control"
5	4	150013	Screw #6-32 x 1.00" Rnd Head
6	2	150015	Screw #6-32 x 1.50" Sht Metal
7	2	130029	Switch Rocker DPDT
8	2	230122	Jumper Wire Assy
9	2	150014	Screw #6-32 x 1.00" Sht Metal

HAND CONTROL COMPONENTS



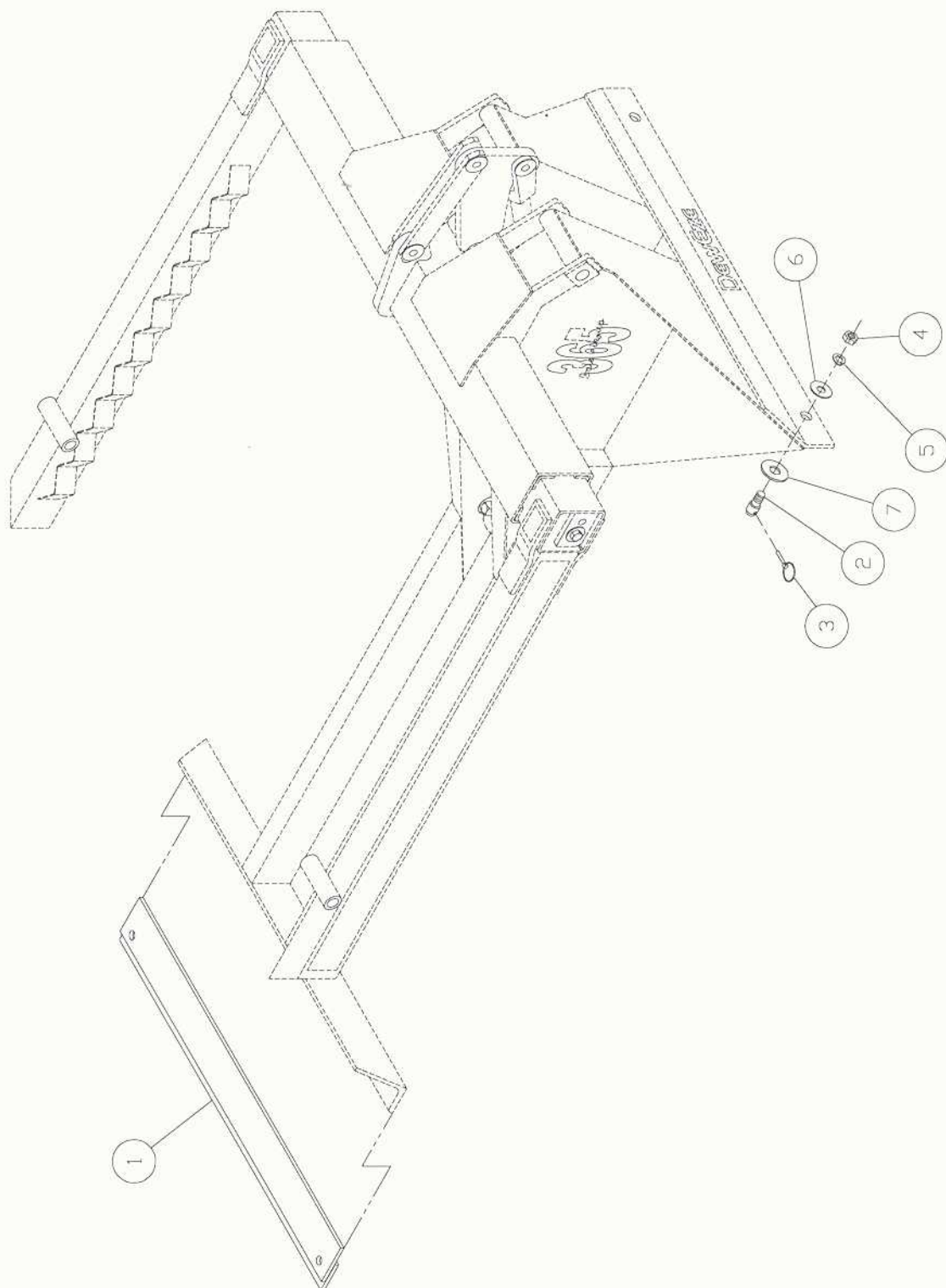
JUMPER WIRE WIRING DETAIL



QUICK ATTACH COMPONENTS

<u>Item</u>	<u>Qty</u>	<u>Part No.</u>	<u>Description</u>
1	1	210836	Front Clamp Plate Weldment
2	2	210837	Rear Quick Attach Pin
3	2	210006	Pin Lynch .250"
4	2	410201	Nut .750"-10 Hex
5	2	310032	Washer .750" Lock
6	2	510461	Washer .750" Flat SAE
7	2	110038	Washer 1.00" Flat

QUICK ATTACH COMPONENTS



OPTIONAL COMPONENTS

SPINNERS

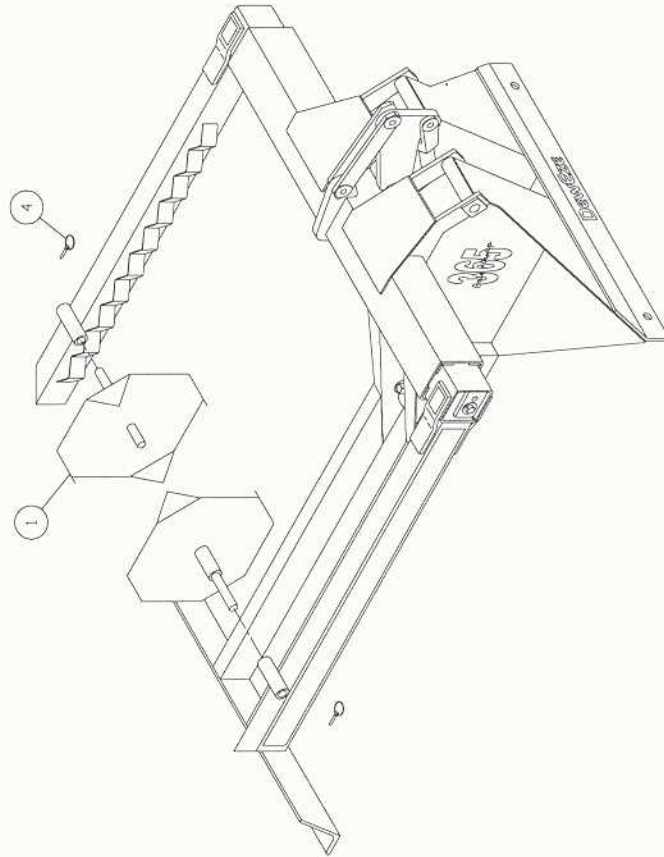
<u>Item</u>	<u>Qty</u>	<u>Part No.</u>	<u>Description</u>
	1	210008	Spinner Set (<i>Includes</i> <i>2-Spinners and 2-Lynch Pins</i>)
1	2	210007	Spinner Weldment
2	2	210006	Lynch Pin .250"

4FT BALE ADAPTERS

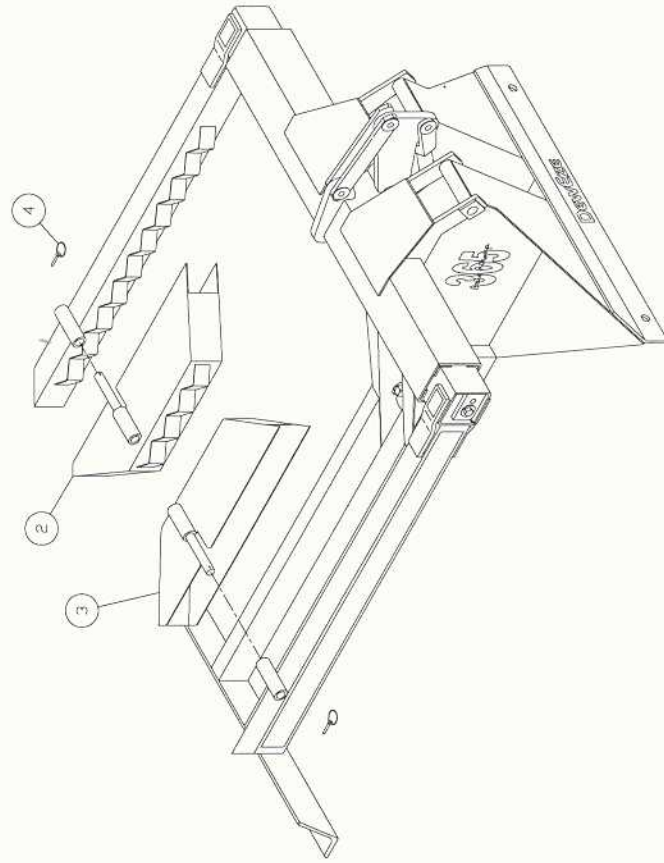
<u>Item</u>	<u>Qty</u>	<u>Part No.</u>	<u>Description</u>
	1	210869	4FT Bale Adapter Set (<i>Includes RH & LH Bale</i> <i>Adapters and 2-Lynch Pins</i>)
1	1	210867	Bale Adapter RH Weldment
2	1	210868	Bale Adapter LH Weldment
3	2	210006	Lynch Pin .250"

OPTIONAL COMPONENTS

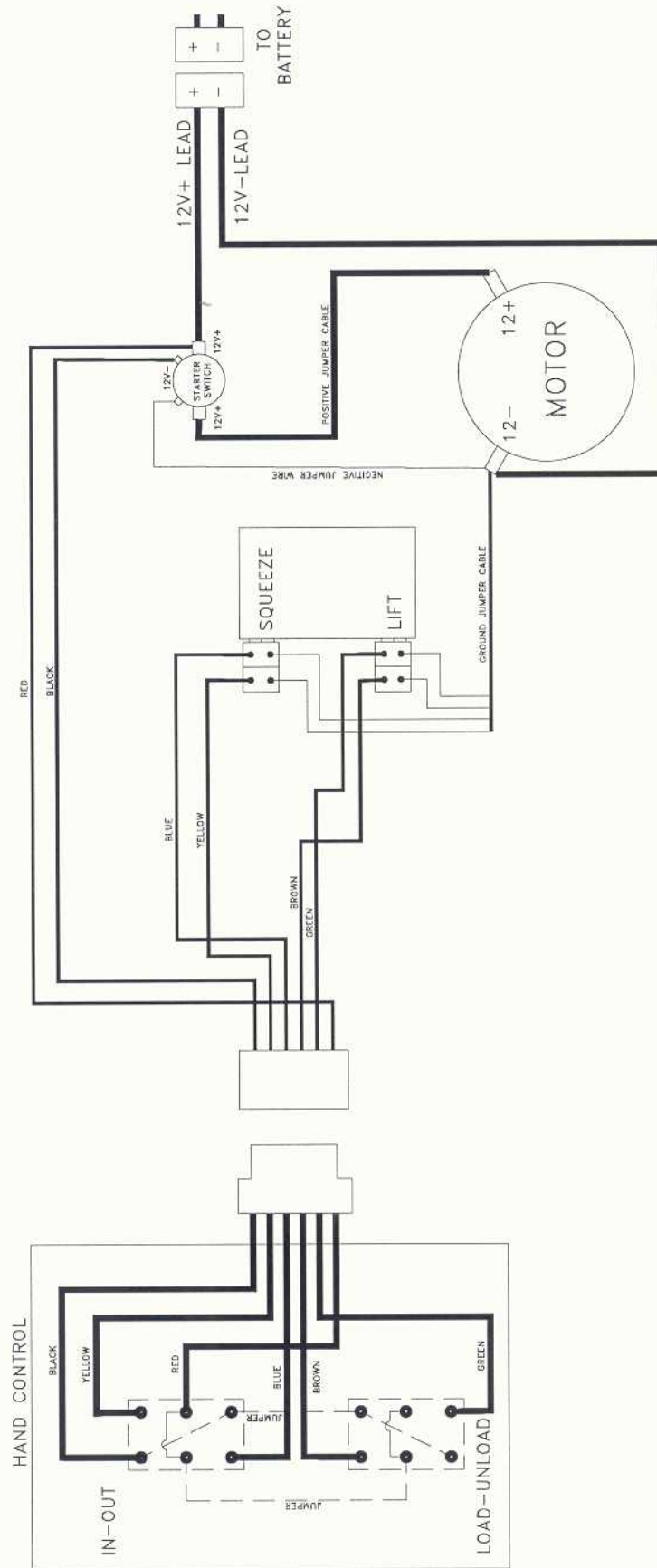
SPINNERS



4FT BALE ADAPTERS



E/H ELECTRICAL SCHEMATIC



OM36504

E/H HYDRAULIC SCHEMATIC

