ODP 100 PP5



The information, specifications, and illustrations in this manual are on the basis of information available at the time it was written. The specifications, torque values, pressures of operation, measurements, adjustments, illustrations, and other items can change at any time. These changes can affect the service of the given product. For the complete and most current information, contact:

> Hogg & Davis, Inc P.O. Box 405 / 3800 Eagle Loop Odell, OR 97044-0405 541-354-1001 541-354-1080 Fax

> > For most recent manual version please visit: <u>www.hoggdavis.com</u>

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Product Warnings

A DANGER

AN UNTRAINED OPERATOR SUBJECTS HIMSELF AND OTHERS TO

DEATH OR SERIOUS INJURY YOU MUST NOT OPERATE THIS MACHINE UNLESS

You have been trained in the safe operation of this machine.

 You have read, understand and follow the safety and operating recommendations contained in the machine manufacturer's manuals, your employer's work rules and applicable government regulations.

• You are sure the machine is operating properly and has been inspected and maintained in accordance with the manufacturer's manuals.

• You are sure that all safety signs, guards and other safety features are in place and in proper condition.









These warning labels and others like it are placed in critical areas of the machine. The warnings are to be read and fully understood prior to operation of the unit.



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General Specifications

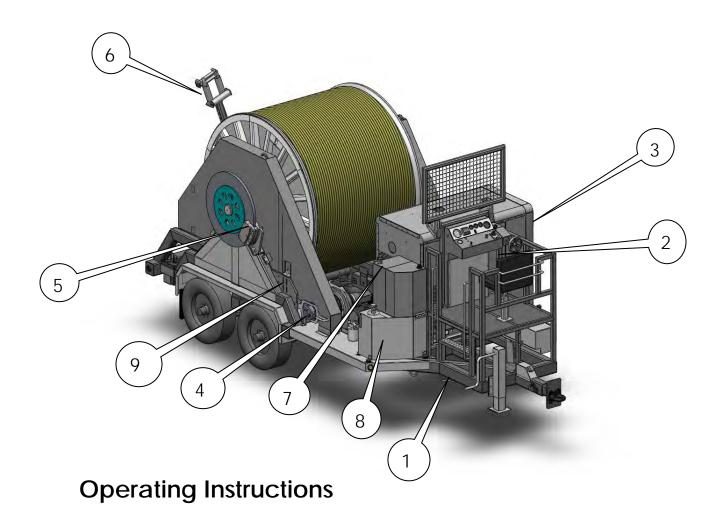
This unit is designed to install overhead cable/conductor.

- Single Reel Puller
- Pulling Computer
- Constant Line Pull System
- 10,000 lbs Maximum Line Pull
- 185 hp John Deere Tier III Diesel
- 20,000' of 1" synthetic rope capacity
- Post Style Level wind
- Dual Drive System
- Fuel Capacity 26 Gallons
- Hydraulic Oil Capacity 37 Gallons









All persons operating this machine must read and understand this manual as well as the operating, danger, and warning decals placed on the machine. Failure to read and understand these items subjects the operator and others to **DEATH or SERIOUS INJURY**.

Operators shall make themselves familiar with the placement of the following operating and safety features of the machine.



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Puller – Main Unit Curb Side

1. Grounding Lugs. There are two lugs welded to the front of the trailer tongue as well as one welded to the rear of the trailer.

They are to be used for grounding only.

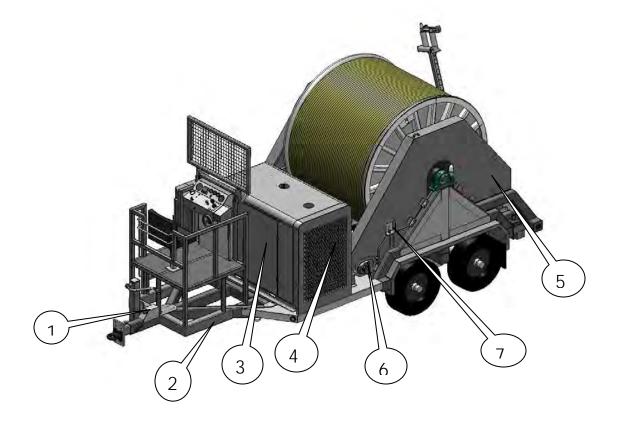
- 2. Operators Station
- **3.** Hydraulic Oil Cooler. This unit transfers the heat from the hydraulic oil during use. It is to be kept clean and clear of dust and debris. Failure to do so may increase hydraulic system operating temperature and may also damage the components in the system.
- 4. Drive Dog Clutches. There is a unit located on both sides. These are the primary drives for the pulling operation. They are able to be engaged and disengaged by removing the drive pin and pulling or pushing on the lever provided. <u>DO</u> <u>NOT OPERATE THE UNIT WITHOUT BOTH DRIVES ENGAGED.</u> It may be necessary for the operator to rotate the reel to allow for the drive dogs to be engaged. Placing pressure on the lever while rotating the reel allows for this to happen. <u>NEVER OPERATE THE UNIT WITHOUT THE PINS ENGAGED.</u>
- 5. Brake Rotor and Caliper. This brake system is for use during the free wheel payout of the installation rope. During the free wheel operation of the unit, this rotor will become extremely hot. <u>DO NOT OPERATE THE PULLING FUNCTION OF THIS UNIT</u> <u>WHILE THE BRAKE SYSTEM IS APPLIED.</u>
- 6. Levelwind. This unit is controlled by a momentary switch on the operators console. It is independently operated.
- 7. Fuel Tank . 26 gallons. DEISEL FUEL ONLY
- 8. Hydraulic Tank. ISO 46 or equivalent . 37 gallons
- 9. Drive Chain Tensioner.



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Puller – Main Unit – Street Side

- 1. Lighting Connector
- 2. Grounding Lug
- 3. Engine Access
- 4. Oil cooler and radiator
- Chain Guards. Located on both sides of large secondary sprocket. <u>DO NOT OPERATE PULLER WITHOUT GUARDS IN</u> <u>PLACE.</u>
- 6. Drive Dog Clutches. There is a unit located on both sides. These are the primary drives for the pulling operation. They are able to be engaged and disengaged by removing the drive pin and pulling or pushing on the lever provided. <u>DO NOT</u> <u>OPERATE THE UNIT WITHOUT BOTH DRIVES ENGAGED.</u> It may be necessary for the operator to rotate the reel to allow for the drive dogs to be engaged. Placing pressure on the lever while rotating the reel allows for this to happen.



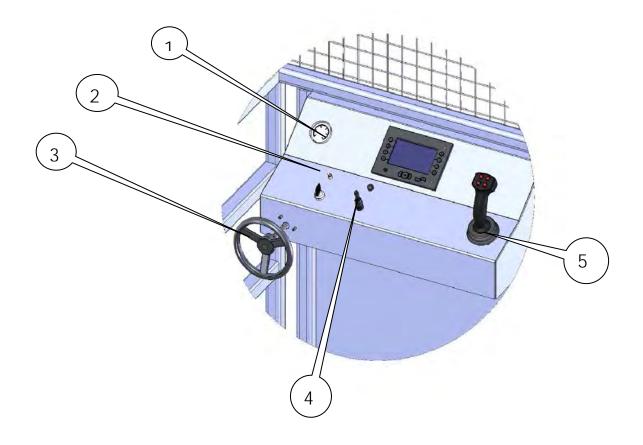
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NEVER OPERATE THE UNIT WITHOUT THE PINS ENGAGED.

7. Drive Chain Tensioner

Control Panel



- Over spin Brake Pressure. This gauge displays the pressure at which the Over spin Brake is operating. <u>DO NOT EXCEED 600</u> <u>PSI.</u>
- 2. Sensor Heat. In cold conditions, it may be necessary to heat the pulling sensor for a few minutes prior to operation

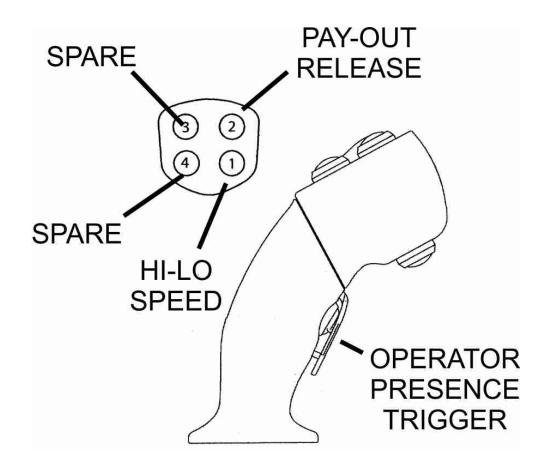


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- Over spin Brake. This controls the over spin brake and at what pressure you apply. Clockwise to apply and counter clockwise to release. <u>DO NOT OPERATE PULLER WITH BRAKE APPLIED</u>. Damage to the brake caliper and rotor may occur as well as providing false pressure readings.
- 4. Level wind control.
- 5. Joystick. This joystick is a friction style control. It has a positive stop but releasing control will <u>NOT</u> return control to neutral. In order to stop pull, operator must return joystick to neutral.

Joystick Functions





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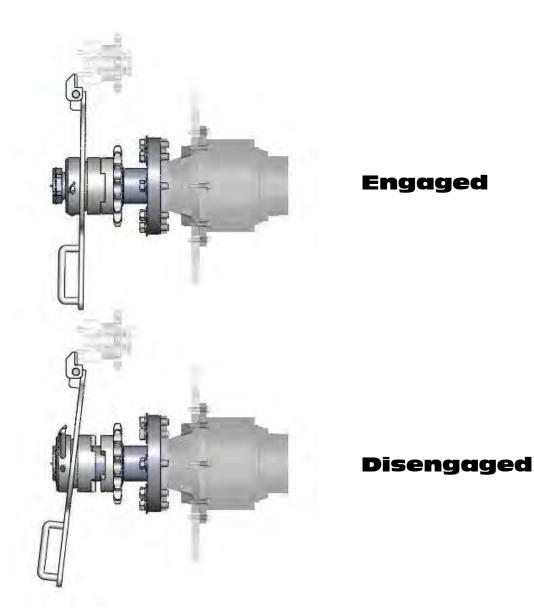
- Pay Out Release. This button must be pressed while attempting to pay out under power. By pressing the Operator Presence Trigger while pressing the Pay Out Release, moving the Joystick towards the Pay Out position will allow the reel to pay out under power. Once the reel begins to pay out, these buttons may be released. The Pay Out Lockout will automatically reset when the Joystick is returned to neutral.
- Hi-Lo Speed. Pressing this button during take up or payout will manually shift the pull speed. Although the computer is still in control of the maximum line speed and line pull and it will not be exceeded.
- Operator Presence Trigger. This must be pressed during the beginning of all Joystick functions. Once the unit is working, it may be released. The trigger will reset when the Joystick is returned to neutral.

Warning: These functions are present to protect the operator and the crews on the ground. If any of these are not functioning properly, contact vendor immediately. These are not to be circumvented in any way. Creating shortcuts to control machines of this nature can cause <u>SERIOUS INJURY or DEATH</u> to those operating this machine and those that are working with it.



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Drive Engagement

Above is a top view of the drive dog couplers in their engaged and disengaged state. Please be sure all clutch pins are installed when engaged and disengaged, or damage may occur.



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Setup on the Job

Setup of the unit

Hogg & Davis, Inc. recommends following the methods described in the following publications:

IEEE Std 524-1992 IEEE Guide to the Installation of Overhead Transmission Line Conductors

IEEE Std 542a-1993 IEEE Guide to Grounding During the Installation of Overhead Transmission Line Conductors

Position of unit

Position the unit with the centerline of the trailer in line with the pull. Place the unit at a minimum of two times the height of the first block. Positioning the unit this way decreases the stress on the level wind system.

Tie Down/ Brake/ Chock

Chock all wheels and set brakes (if applicable). It should be noted that the fully loaded puller weight may exceed the tension desired during the pull. As the pull progresses, the weight of the puller may increase or decrease, therefore proper securing procedures should be followed during operation.



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Rope Payout Procedure (Free Wheel)

When beginning the rope payout feature, be sure that the engine is turned off. Ensure that all tension is removed from the pulling rope before attempting to release drive dogs.

Adjust reel brake to provide tension to the reel of rope. Disengage the drive dog(s) from the sprocket drive(s). Begin to pull rope through the blocks while continuing to adjust the over spin brake. When the rope install is completed, engage both of the sprocket drives.

***These instructions assume that the operator has set the proper drive dog(s) for the reel to be pulled in.

Pulling Computer

This unit is equipped with a computer control that allows the operator to preset the Maximum Line Pull as well as the Maximum Line Speed. During the pull, no matter the length of cable in the air, the computer calculates the drum diameter and adjusts the hydraulic system to provide a constant pulling control. Throughout the pull, the Line Pull and the Line Speed will be maintained at a constant set by the operator. This type of system allows for greater control of the overall pull, as well as eliminating the "estimation process" and constant adjustment of hydraulic system to maintain the maximum preset.

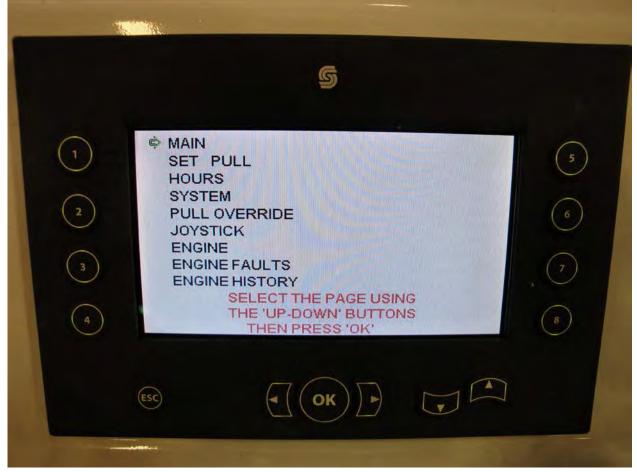


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Operation

Setup Screen. Select the page using the "up-down" buttons and then press enter.





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Set Pull

There can be up to four preset "Pulls" in the computer at one time. They are labeled, Pull 1-4 and utilize the corresponding buttons on the left hand side of the pulling computer control.

Select the pull you wish to modify and increase the Maximum Pull by using the "up-down" buttons. When the desired Line Pull Max is set, press enter.

The computer can also control the line speed for that set pull. The buttons on the right side of the pulling computer 5-8 correspond with the pulls set 1-4. Pressing the 5-8 buttons will allow the operator to set the maximum Line Speed for the pull. FPM and MPH are both displayed. They are set relevant to the other. Example 352 FPM = 4.0 MPH.

When the Maximum Line Pull and Line Speed are set, press the ESC key and return to Pull Screen.

Pull Screen - MAIN

The pull screen displays the most needed displays for the pull.

- Pull This displays the Current Line Pull in Ibs. NOT THE MAXIMUM
- Fuel Fuel Level in the Puller tank.
- Drum Diameter Current diameter of the drum.
- FPM Current FPM
- MPH Current MPH
- Engine Gauges This display's the engine temp, oil pressure, RPM PCT of Load and battery voltage.
- Throttle The engine throttle is increased or decreased by using the Left-Right buttons on each side of the OK button.



"Rugged Dependability." © c



- Menu Returns to the Main Menu Screen.
- Pull and Speed Below the Menu label on the screen, the PRESET Maximum Line Pull and Speed are displayed.
- Select Pull This button brings up the Select Pull Screen.
- Camera If the unit is equipped, this will allow for remote viewing.

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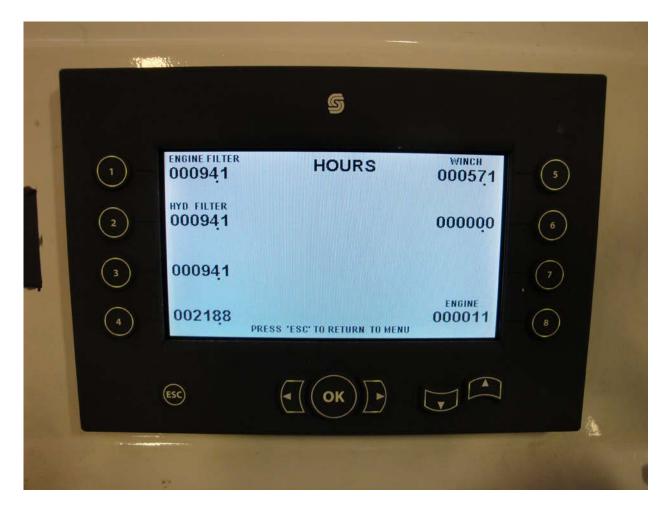


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Hours Screen

This screen displays the current hours on the engine oil filters, hydraulic oil filters, the time the winch has been activated (pay in and pay out time) and engine hours.





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System Screen

This screen displays the current System Pressure, Charge Pressure, Motor RPM, and the Drum Diameter. This screen is primarily used for troubleshooting.





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Joystick

This screen gives a graphic display of the Joystick and its functions.





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Engine

This screen displays all current information regarding the engine on the puller.





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Pulling Control

The Following instructions explain how to properly set up the unit.

- 1. Release the hydraulic over spin brake.
- 2. Set Job Pull Settings on the Pull Computer.
- 3. Return computer to Main Screen.
- 4. Increase Throttle to 1500 RPM or desired setting.
- 5. Squeeze trigger and move Joystick to take up.
- 6. Adjust line speed with joystick.
- 7. Return joystick to neutral to stop pull and set holding brake.

System Brakes

The internal braking system is spring applied / hydraulic release on the drive motors. When the joystick is in neutral, the brakes are automatically applied

Level wind

This unit is equipped with manual post style level wind. Operator must control during pull as needed for even take up of rope on reel.

LUBRICATION AND MAINTENANCE

This unit has no set PM schedule beyond that of the engine manufacturers suggested maintenance schedule. This unit should be visually inspected prior to each use while repairing any and all discrepancies prior to use.



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Items to be inspected prior to use are:

- Drive Chains and sprockets for wear and slack
- All welds and seams
- Loose or missing fasteners (bolts, nuts, set screws)
- Loose or leaking hydraulic hoses
- Damaged or worn hydraulic hoses
- Brake calipers (loose fittings, hoses, worn linings)
- Brake Pads (over spin brake)
- Brake rotors
- Tires and brakes
- Engine and hydraulic system fluid levels.
- Set screws (see set screw section)

Lubrication Schedule

- Drive chain and sprockets (daily)
- Reel Shaft Bearings (as needed)
- Reel Bearings (as needed)
- Engine oil as per manufacturers recommendation
- Idler sprocket (daily)
- Axle Bearings (as needed)
- Level wind grease fittings (as needed)

Set Screws

Due to the rugged nature of this machine. All set screws on the shafts, reels and bearings have a thread locker and may be double set screwed. Please do not assume that screws are tight when performing maintenance. When checking or tightening these set screws, remove the first and then tighten the first.



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15-15 Warranty

Hogg and Davis, Inc. warrants its trailers against defects in material or workmanship for period of 15 months from the date of shipment from Hogg and Davis, Inc. (see General Conditions & Exceptions). Hogg and Davis, Inc. will replace, free of charge, F.O.B. Hogg and Davis, Inc. factory, such parts or parts thereof, that in their judgement have proven defective. Additionally, Hogg and Davis, Inc. will pay reasonable and customary labor charges when defective part is replaced, installed or repaired by a fully authorized Hogg and Davis, Inc. trailer dealer at his facility.

Warranty credit will be issued only upon receipt and inspection of defective parts of at the Hogg and Davis, Inc. factory. Hogg and Davis, Inc. warrants it's trailer main frame assemblies (except pintle eyes or other towing attachments, spindles and axles) against defects in material or workmanship for a period of **15 years** from the date of shipment from Hogg and Davis, Inc. (see General Conditions & Exceptions). Hogg and Davis, Inc. shall replace or repair, in a manner as it shall determine, free of charge, F.O.B. factory, any

parts or parts thereof, that in its judgement have proven defective. Additionally, Hogg and Davis, Inc. will pay reasonable and customary labor charges when defective part is replaces,

installed or repaired by a fully authorized Hogg and Davis, Inc. trailer dealer at his facility

General Conditions & Exceptions

All warranties, options and representations made herein shall apply only provide such equipment shall not have been subject to misuse, negligence or accident and has been operated in accordance with factory approved procedures. This warranty does not obligate Hogg and Davis, Inc. or its authorized dealers to bear the cost of parts obtained from or labor performed by unauthorized sources. Nor does it obligate Hogg and Davis, Inc. or its authorized dealers to bear the cost of transportation of parts or equipment for repair or **replacement purposes**. This warranty is in lieu of any other warranty, expressed **or implied**, or any other obligation or liability on the part of Hogg and Davis, Inc and no persons or entity is authorized to make any representation beyond those stated herein.

Hogg and Davis, Inc. shall not be held liable for consequential damage of any kind. Hogg and Davis, Inc. also reserves the right to make changes and improvements in its products without incurring any obligation to install any such changes or improvements upon its products previously manufactured.

The above warranty shall not be misconstrued to mean warranty of tires, clutch, transmission assemblies or customer requested accessory equipment other than the warranty extended by their respective manufactures to Hogg and Davis, Inc. In addition, friction, drive rollers are warranted only to extent of bonding failure. All warranties, options and representations made herein are applicable to the original end-user of the product and are not sellable or transferable in any manner.



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Parts and other manufacturer manuals

The Following drawings are for part identification only. Please reference the unit V.I.N. number and the corresponding part number when ordering.

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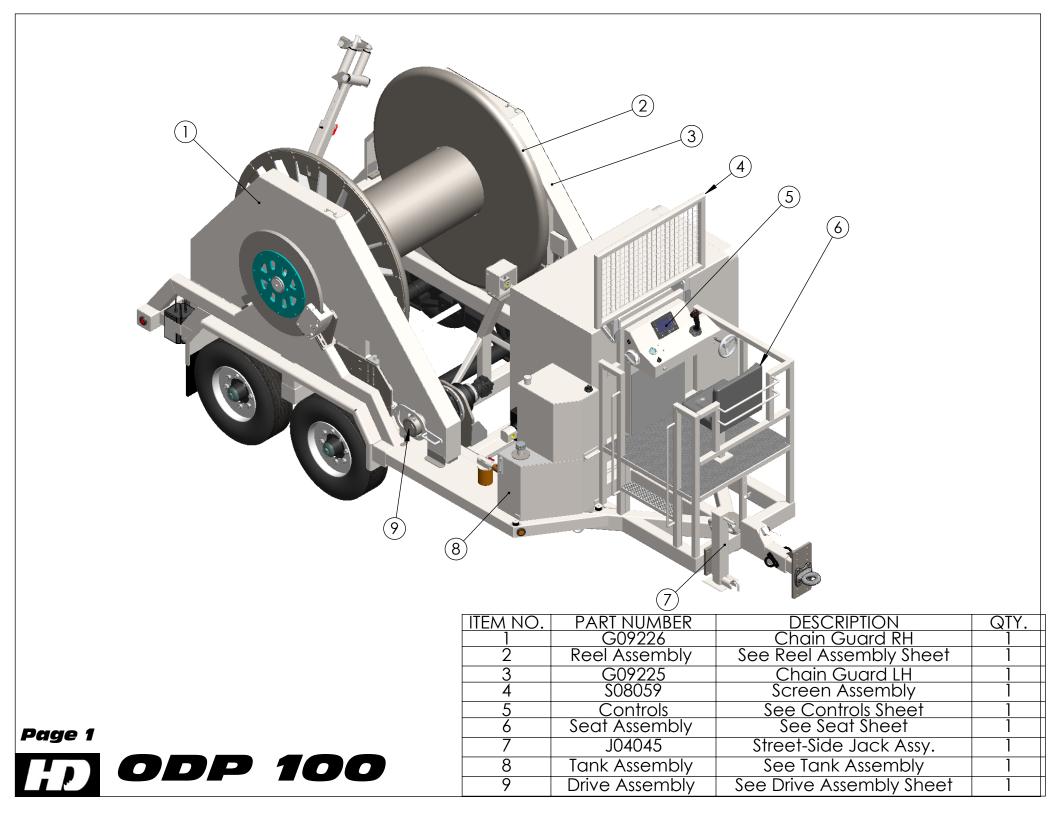


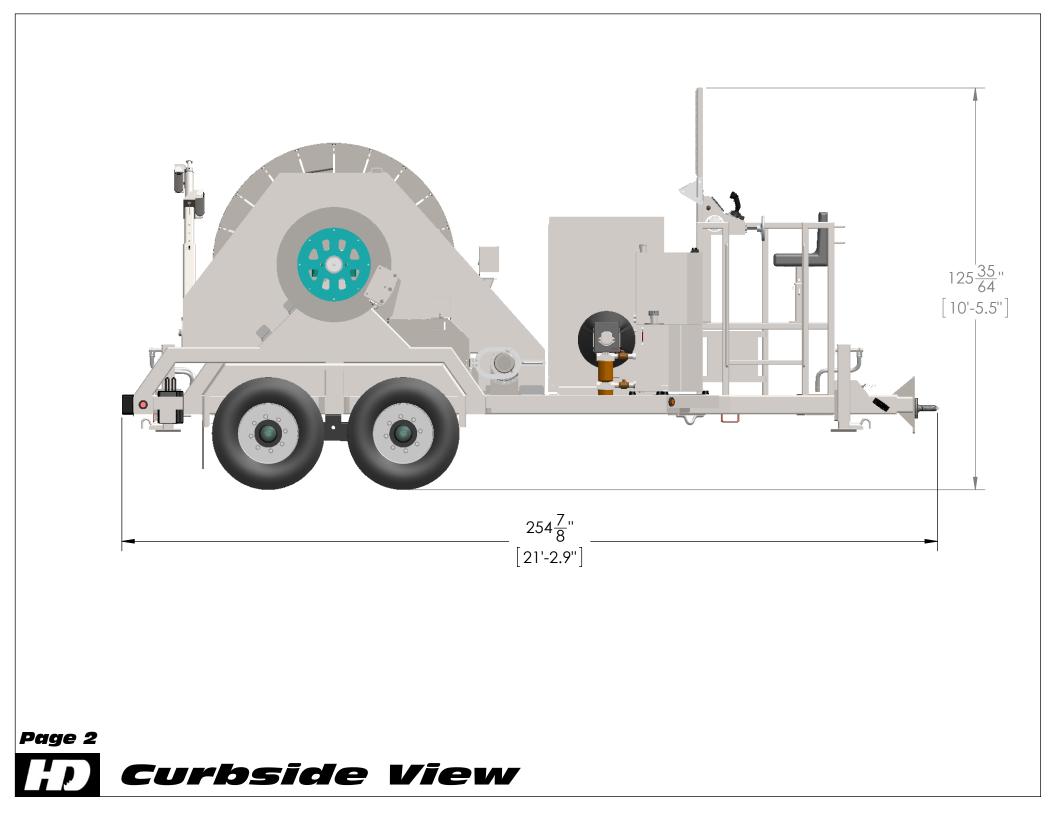
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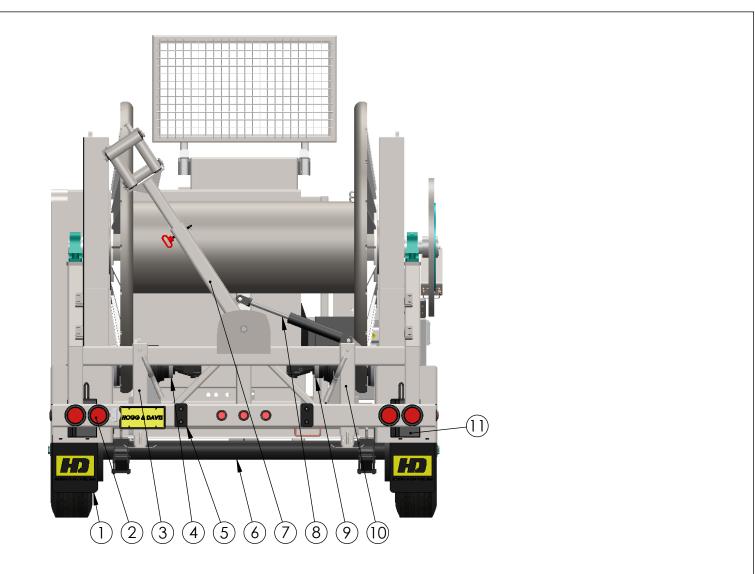
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Isometric View	1
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Brake Assembly	5
Overspin Brake	6
Levelwind Assembly	7
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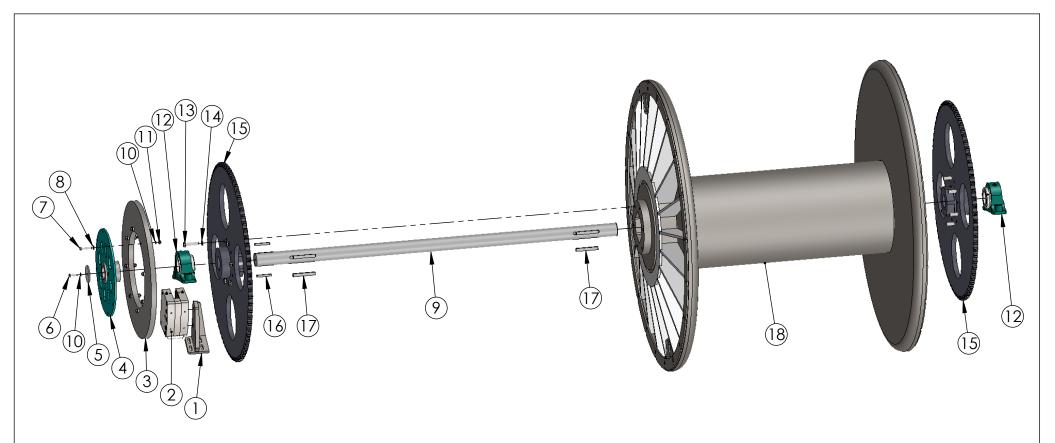


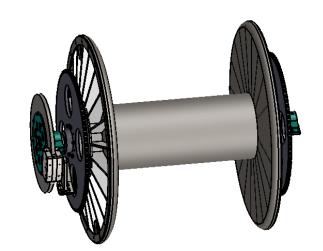


[ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
	1	F10010	Mud Flap	2
	2	Lighting	See Lighting Sheets	1
[3	J04047	Jackstand	1
	4	Drive Assembly LH	See Planetary Drive Sheet	1
Ī	5	B20002	3X6 Bumper	2
[6	A07115	AXLE	1
	7	Levelwind Assembly	See Levelwind Sheet	1
	8	C32020	Cylinder, Levelwind	1
[9	Drive Assembly RH	See Planetary Drive Sheet	1
┏ [10	J04046	Jackstand	1
	11	C12005	Wheel Chock	4

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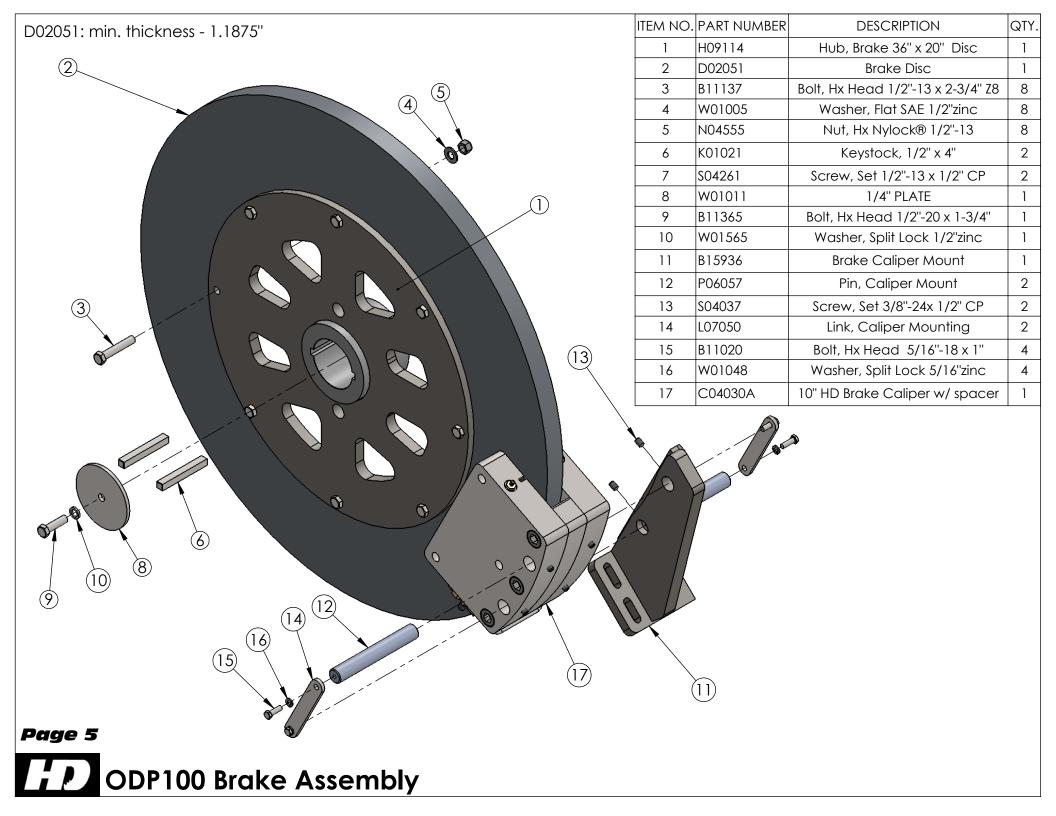


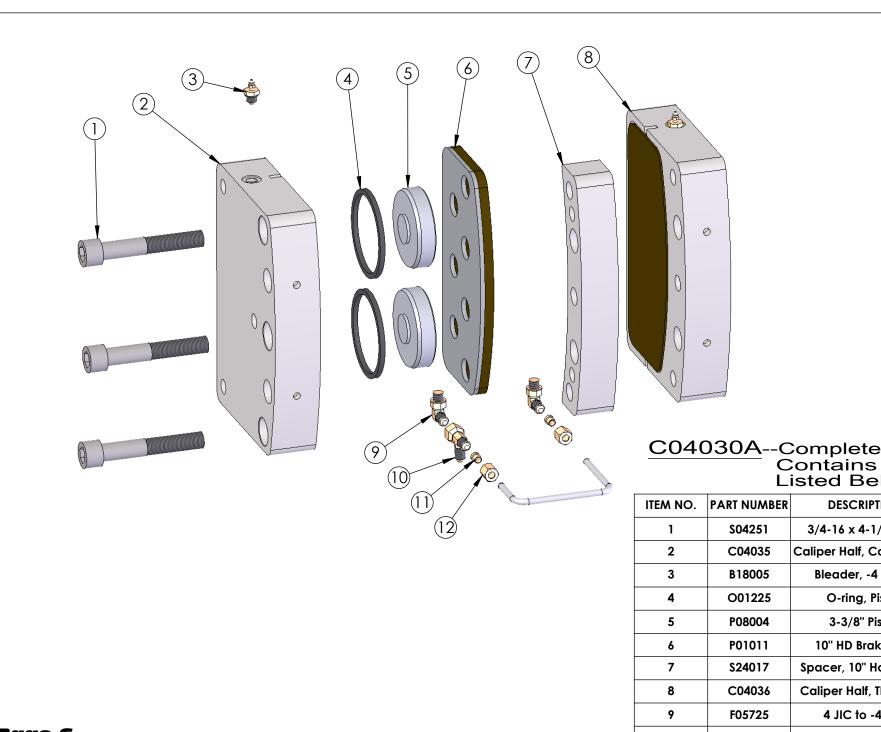


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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	B15936	Brake Caliper Mount	1
2	C04030A	10" HD Brake Caliper w/ spacer	1
3	D02045	Brake Disc	1
4	H09114	Hub, Brake Disc	1
5	W01011	Cap, Hub	1
6	B11365	Bolt Hx head 1/2-20x1-3/4	1
7	B11137	Bolt Hx head 1/2-13x2-3/4 Z8	8
8	W01005	Washer Flat SAE 1/2	8
9	S43051	Shaft, 3 7/16" Stress Proof	1
10	W01565	Washer, Split Lock 1/2"	9
11	N04555	Nut, Hex Nylock® 1/2"-13	8
12	B07406	Bearing, Pillow Block	2
13	B11464	Bolt Hx head 3/4-10x3-1/2 Z8	12
14	W01585	Washer Split Lock 3/4	12
15	\$29071	Sprocket	2
16	K01021	Keystock, 1/2" x 4"	2
17	K01022	Keystock, 3/4"	4
18	R07021	ODP100 Reel	1



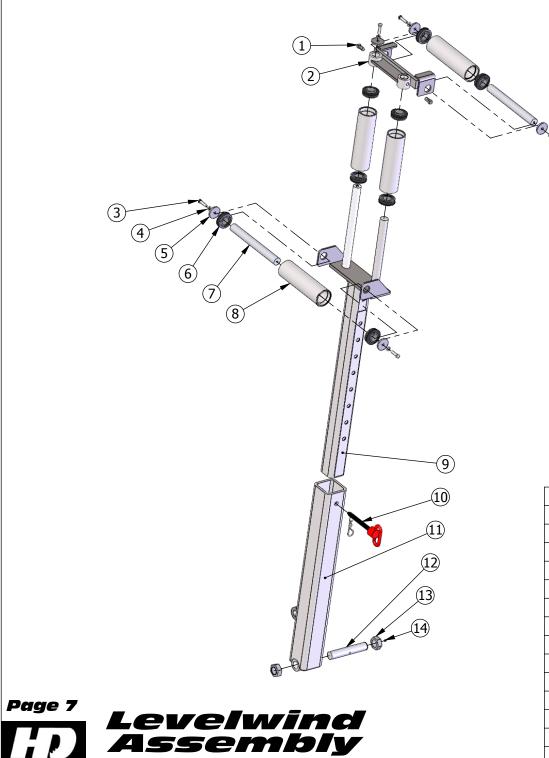


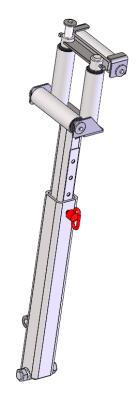
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10" HD Brake Caliper Assembly

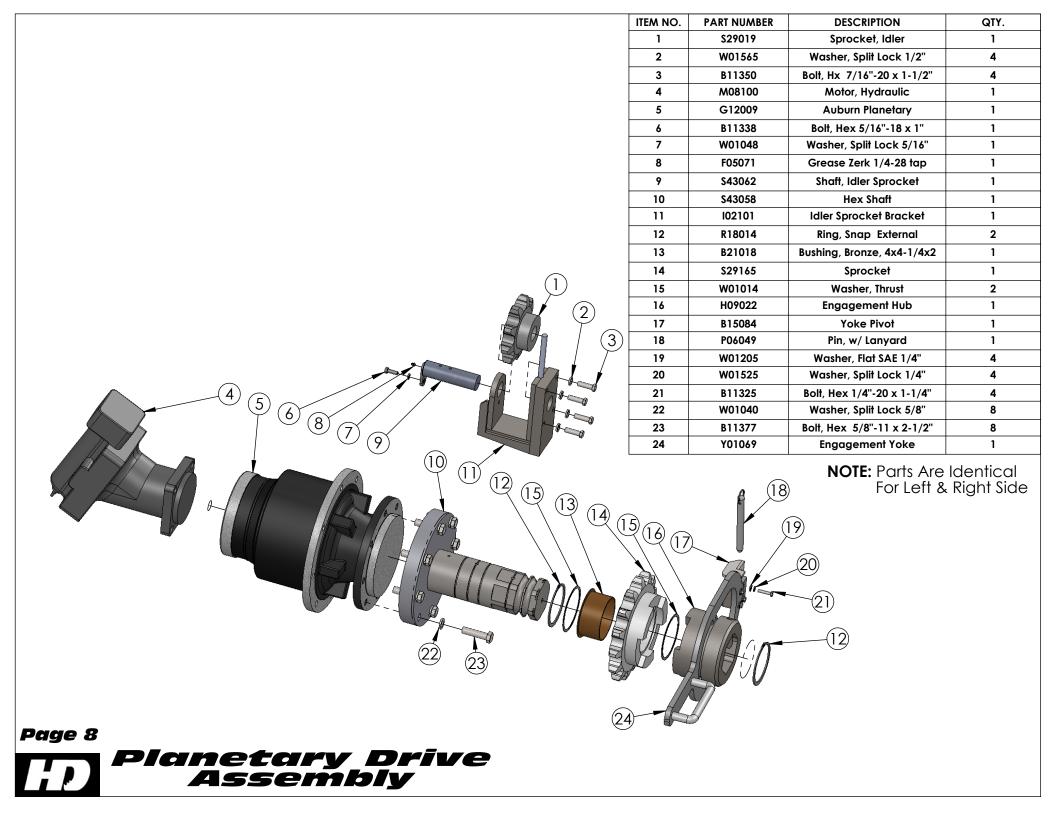
C04030A Contains all parts Listed Below

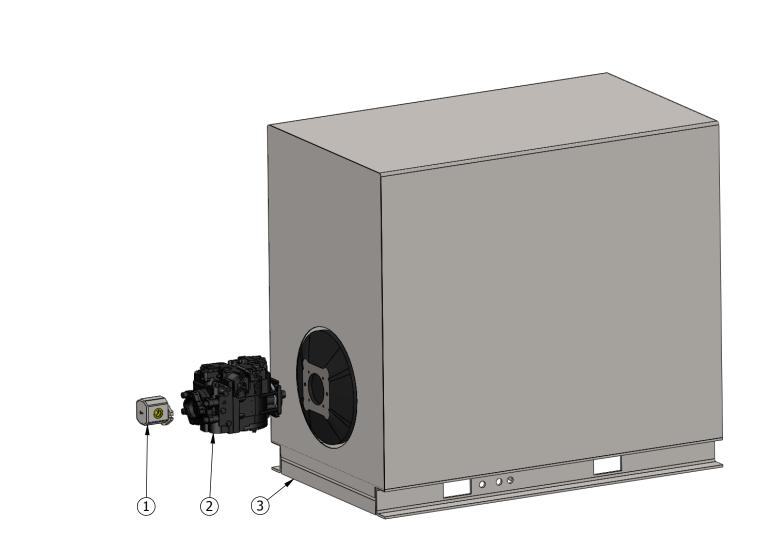
ITEM NO.	PART NUMBER	DESCRIPTION	Qty.
1	\$04251	3/4-16 x 4-1/2 SHCS	3
2	C04035	Caliper Half, Countersink	1
3	B18005	Bleader, -4 o-ring	2
4	O01225	O-ring, Piston	4
5	P08004	3-3/8" Piston	4
6	P01011	10" HD Brake Pad	2
7	S24017	Spacer, 10" Hd caliper	1
8	C04036	Caliper Half, Threaded	1
9	F05725	4 JIC to -4 SAE	2
10	F05067	-4 Swivel Nut Run T	1
11	F05113	Fitting, Sleeve -4	2
12	F05300	Fitting, -4 nut	2





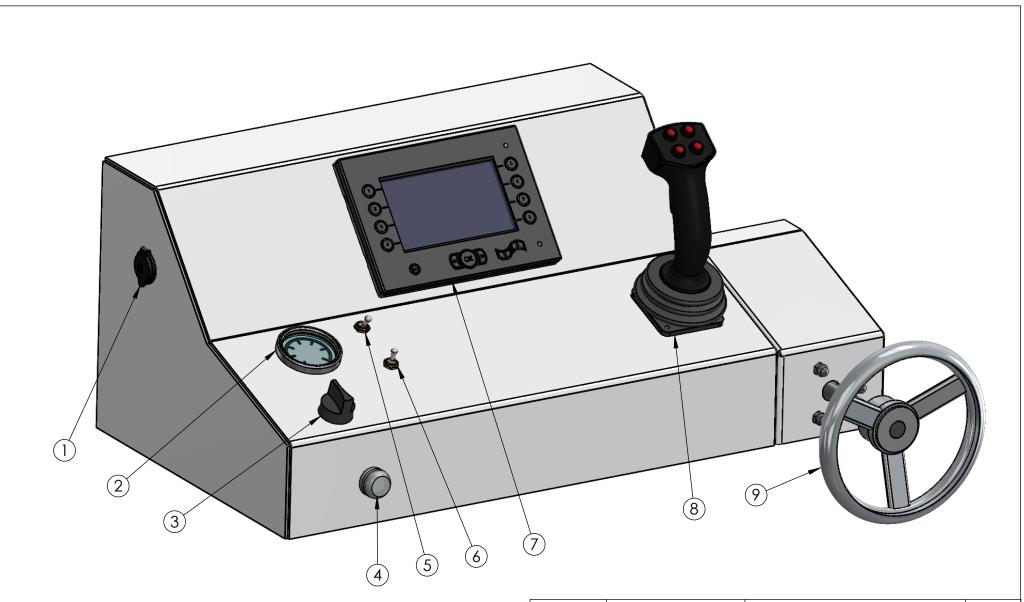
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	S04475	Screw, Set Sq Head 1/2 x 1	2
2	B15897	Bracket Assembly	1
3	B11344	Bolt Hx head 3/8-16x1-1/2	5
4	W01545	Washer, Split Lock 3/8"	5
5	C06041	Cap, End	5
6	B07110	Bearing, Roller	8
7	S43129	Shaft, Roller	2
8	R20044	Roller, Painted Steel	4
9	A08091	Arm, Levelwind Carriage	1
10	P06027	Pin, Height Adjust	1
11	S17001	Sleeve Arm	1
12	P06156	Pin, Levelwind Pivot	1
13	N04097	Nut Hex Jam 1-1/4-12	2
14	F05071	Grease Zerk 1/4"-28 tap	1







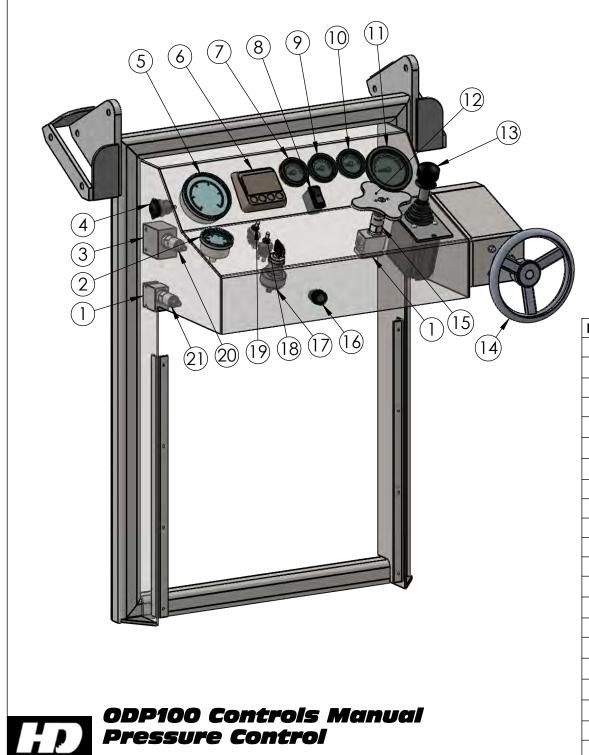
ITEM NO.	PART NUMBER	DESCRIPTION	For Manual/QTY.
1	P20103	Pump, 10gpm	1
2	P20007	Pump	1
3	E02085	John Deere 185 HP engine	1



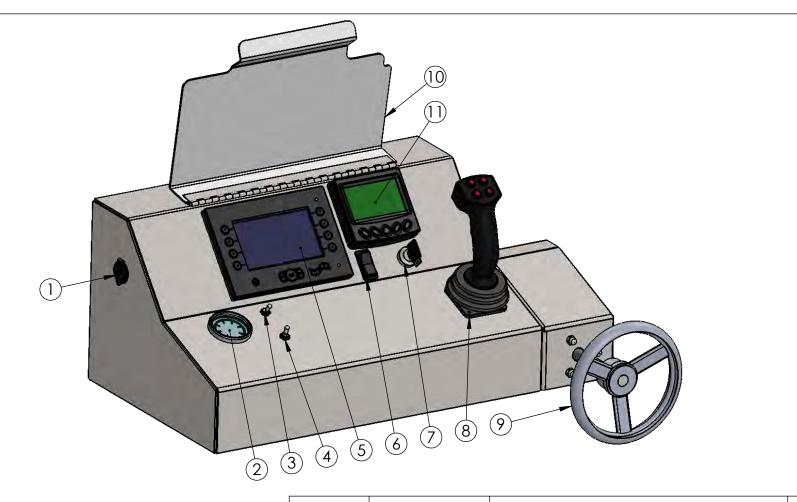
Page 10)
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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	S21020	12v Socket	1
2	G02008	3" 600PSI GAUGE	1
3	S40070	Switch, Key Cole Hersee	1
4	S40169	Switch, Payout Lock-Out	1
5	\$40035	Switch, SP/ST Toggle	1
6	S40100	Switch, SP/DT Momentary	1
7	D09020	Display, Color DP600 TFT	1
8	8 C34033 JS6000 +1 Joystick Controller		1
9	C32004	Brake Cylinder	1

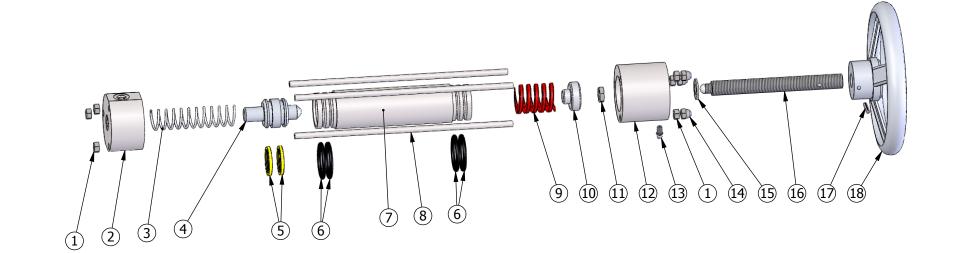


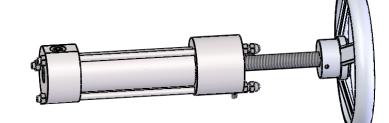
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	M04051	Manifold, Aluminum	2
2	G02008	Gauge, 3" 600PSI	1
3	M04052	Manifold, Steel	1
4	R12005	12v Socket	1
5	G02007	Gauge, 4" 600PSI	1
6	D09001	John Deere PowerView Gauge	1
7	Water Temp	Water Temp John Deere	1
8	T06007	Throttle Switch, John Deere	1
9	Volts	Voltmeter John Deere	1
10	Oil Psi	Oil Pressure John Deere	1
11	Tachometer	Tachometer John Deere	1
12	H02062	RV-5 Handle	1
13	C34030	Controller, Joystick MCH	1
14	C32004	Brake Cylinder	1
15	V02076	Valve, Relief RV5 /50	1
16	\$40169	Switch, Payout Lock-Out	1
17	\$41100	Switch Ignition JDD	1
18	\$40100	Switch, SP/DT Momentary	1
19	\$40035	Switch, SP/ST Toggle	1
20	V02077	Valve, Relief RV1 /9	1
21	V02078	Valve, Relief RV1 /18	1



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	R12005	12v Socket	1
2	G02008	Gauge, 3" 600PSI	1
3	S40035	Switch, SP/ST Toggle	1
4	S40100	Switch, SP/DT Momentary	1
5	D09020	Display, Color DP600 TFT	1
6	T06007	Throttle Switch, John Deere	1
7	S41100	Switch Ignition JDD	1
8	C34033	JS6000 +1 Joystick Controller	1
9	C32004	Brake Cylinder	1
10	C29037	Cover, Display	1
11	PV480	Display, Engine	1

Controls Tier 4 Final





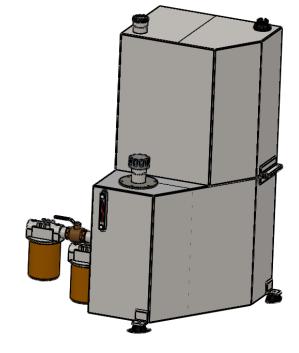
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	N04107	Nut Hex 5/16"-18	6
2	C06009	Bar round 3" 1018	1
3	S28022	Return Spring	1
4	P08017	Piston, Aluminum two groove	1
5	O01061	Seal	2
6	O01060	O-Ring	4
7	H08003	Cylinder Tube	1
8	R19007	Bar round 5/16" 1018	3
9	S28021	Spring	1
10	P08016	2" Aluminum RB	1
11	N04039	Nut Hex Jam 1/2-20	1
12	C06012	Bar round 3" 1018	1
13	F05630	Fitting, 1/4"-28 Zerk	1
14	N04103	Nut Hex 5/16"-18 Acorn	3
15	W01005	Washer, Flat SAE 1/2"	1
16	S04006-001	Bar 3/4"-8 acme thread	1
17	P06186	Pin, Roll 3/16 "x 1"	1
18	H02060	Handle, 8" Dia.	1

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C32004 HD Brake Cylinder

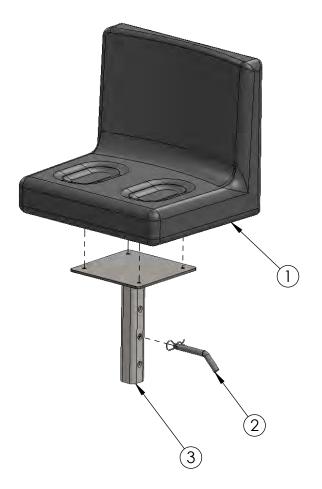
(1)(2)(3) 10 9 8 6 (7)6 (5) 4 do. (11) (12)

> Hydraulic/Fuel Tank Assembly



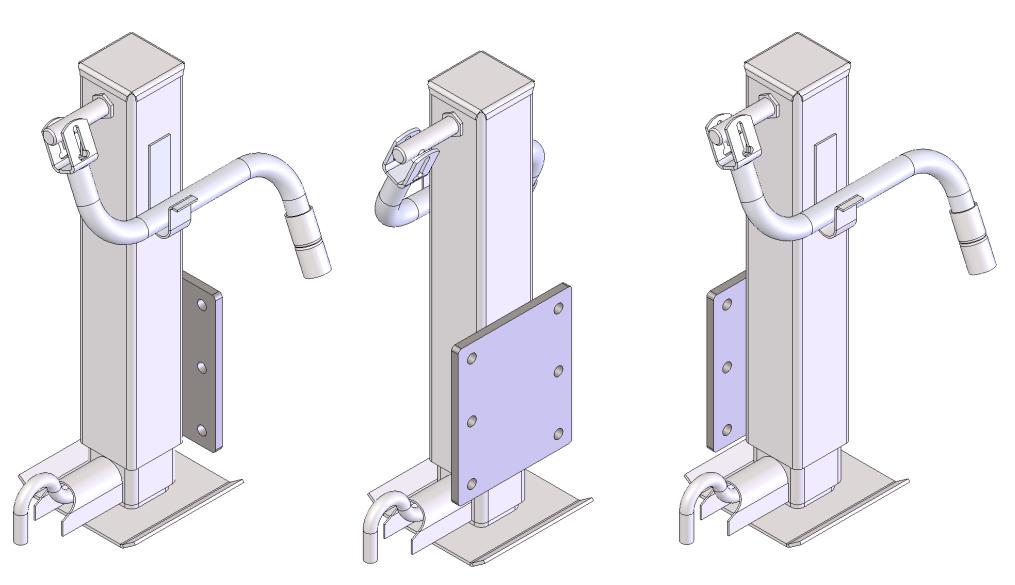
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	C06205	Cap, Fuel	1
2	T01009	Tank, Fuel 26 Gallon	1
3	S46006	Fuel Sender	1
4	F04020	Filter 10 micron	2
5	F04021	Filter Head	2
6	N02001	Nipple, 1-1/4" x 3"LG	4
7	V02001	Valve, Ball 1-1/4" NPT	2
8	G02046	Gauge, Hyd oil level	1
9	N07002	Neck, Hydraulic fill	1
10	C06155A	Cap, Hydraulic	1
11	T01105	Tank, Hydraulic 37.5 gallon	1
12	I04003	Insulator, Small	4





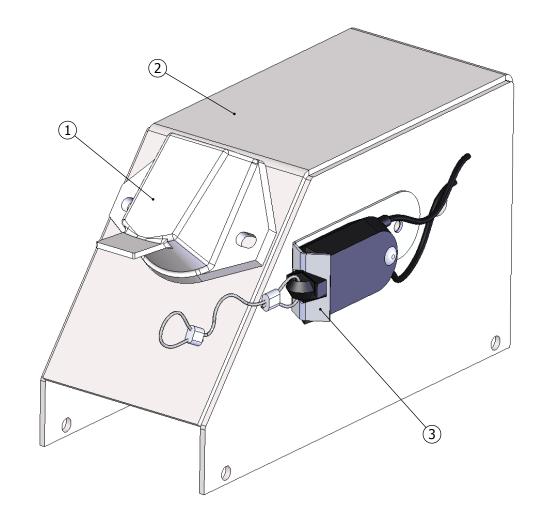
Page 13	ITEM NO.	PA
Seat Assembly	1	
	2	
	3	

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	S03040	Seat, Operator JD	1
2	P06999	Pin, Bent Hitch 5/8 x 3"	1
3	P14051	Post, Seat Mount	1



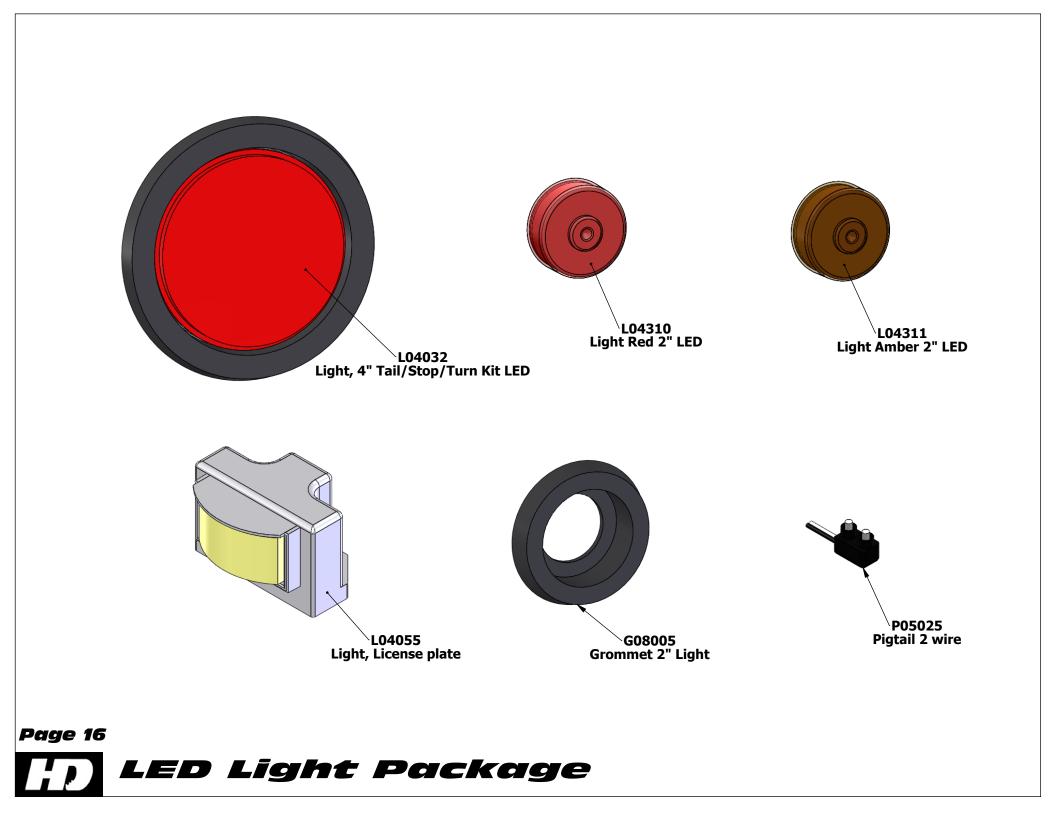
J04041 Front Jackstand J04046 Streetside Rear Jackstand J04047 Curbside Rear Jackstand

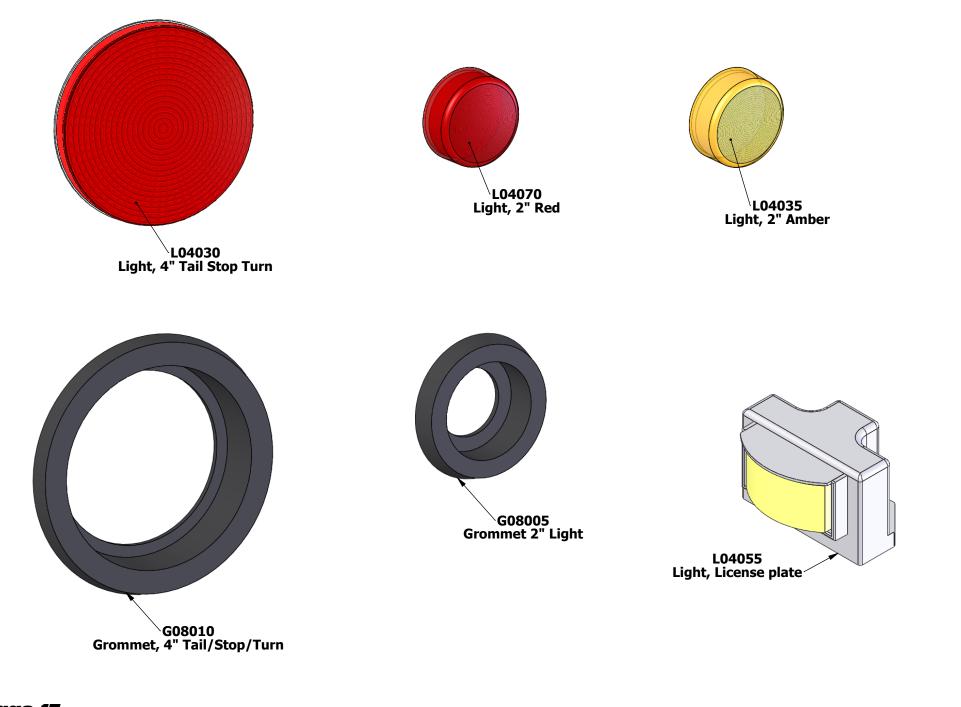




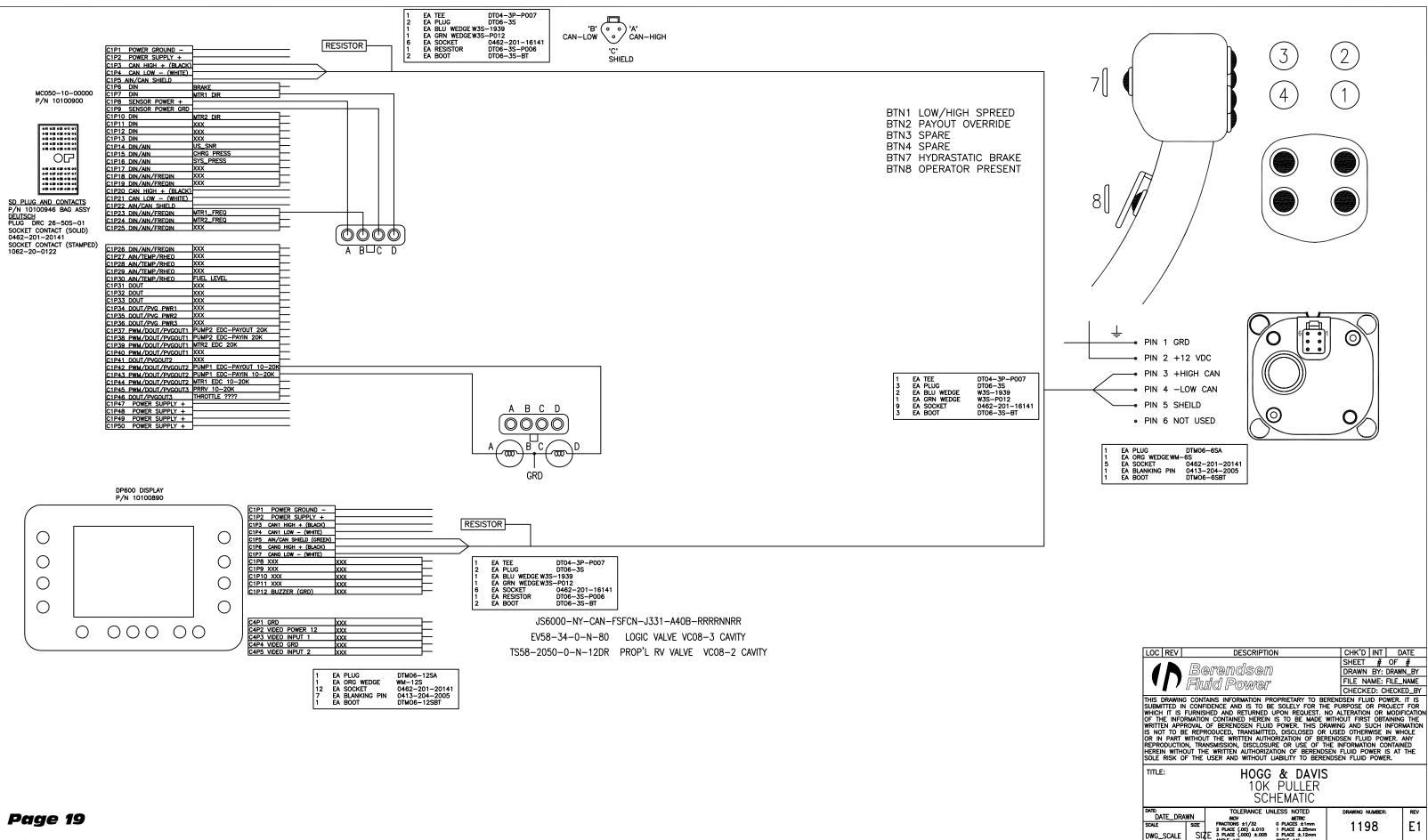


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	S21035	Socket 7-wire Pollak	1
2	H05072 Hood, Electrical		1
3	S40003	Switch, Breakaway	1





Page 17 Standard Lighting



 SIZE
 FRACTIONS ±1/32

 DWG_SCALE
 SIZE
 2 PLACE (.00) ±.010

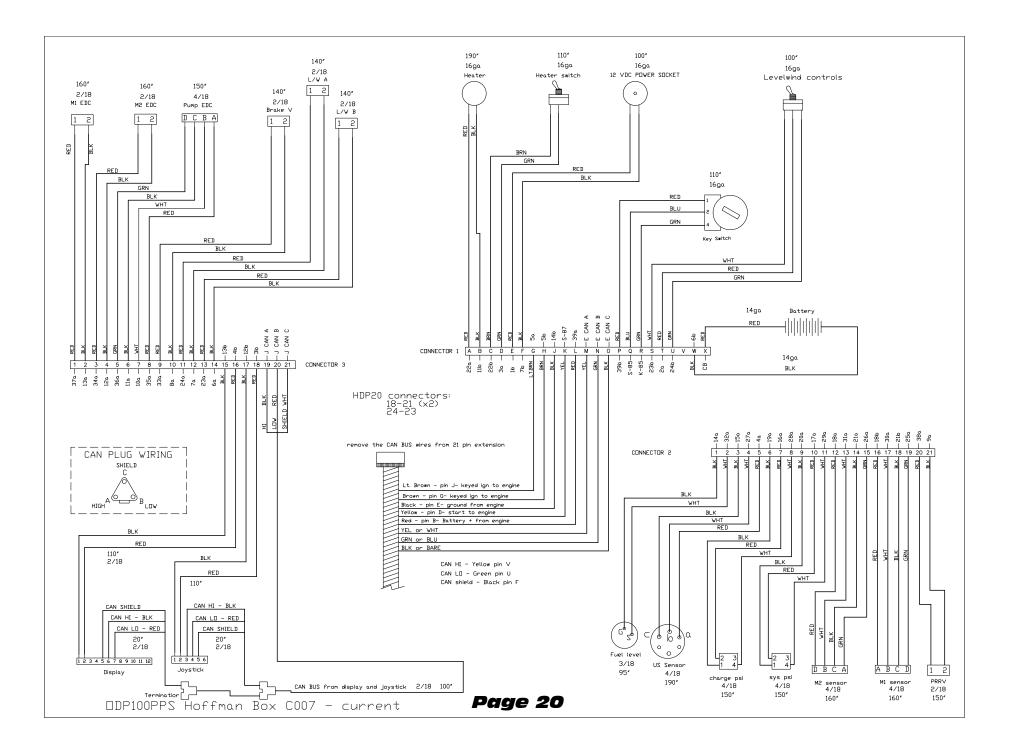
 ANGLE ±1*
 ANGLE ±1*

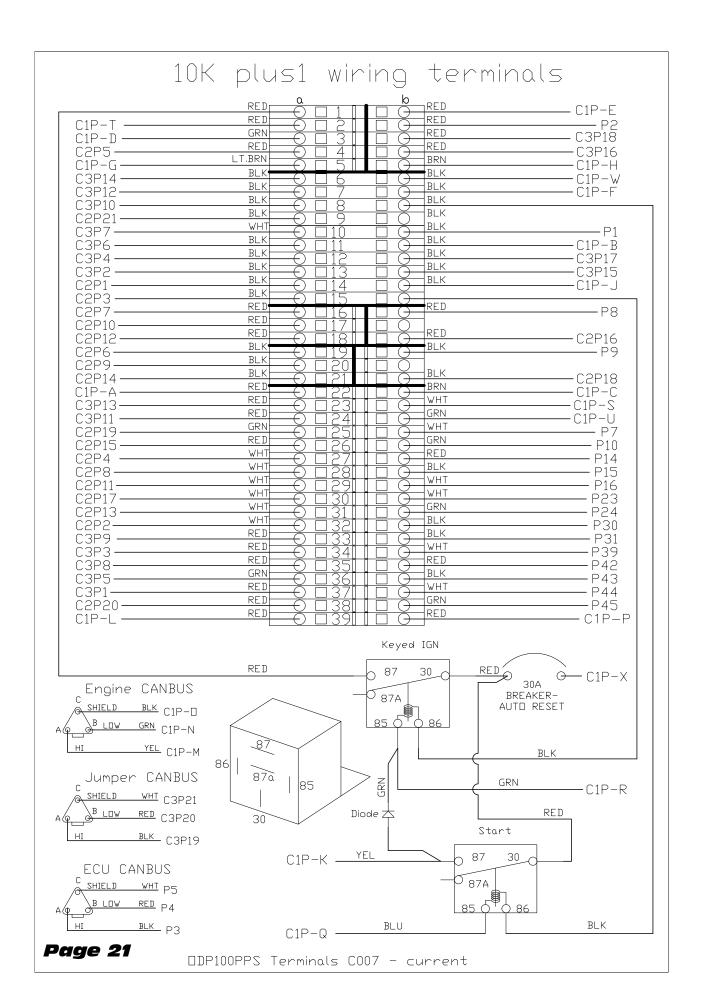
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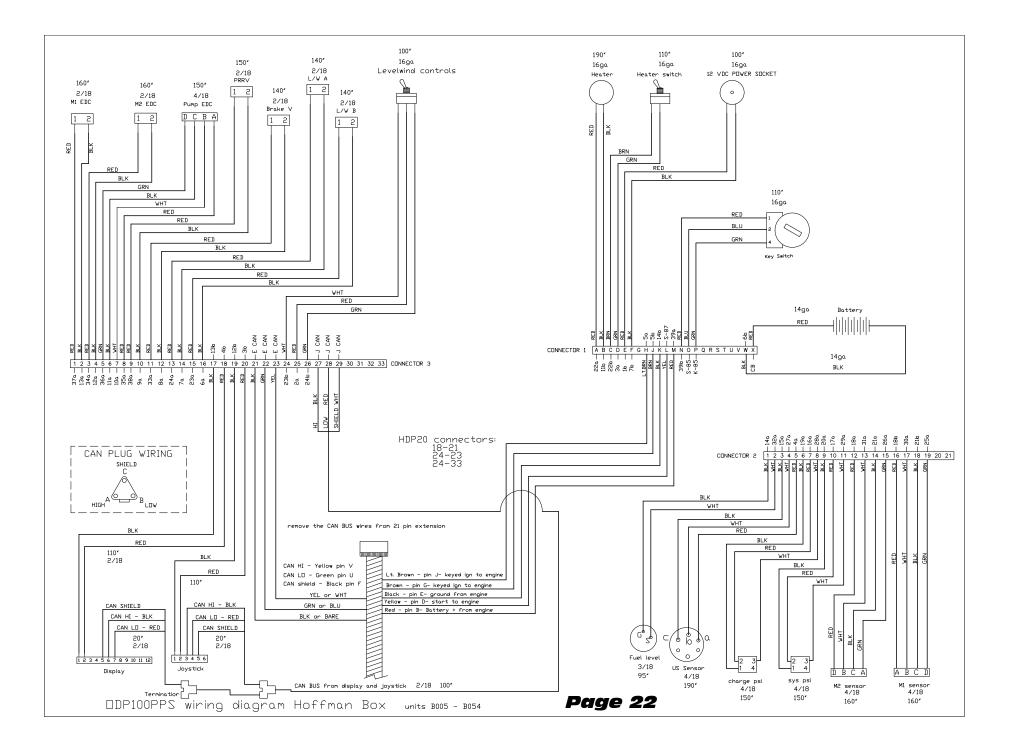
GLE ±1

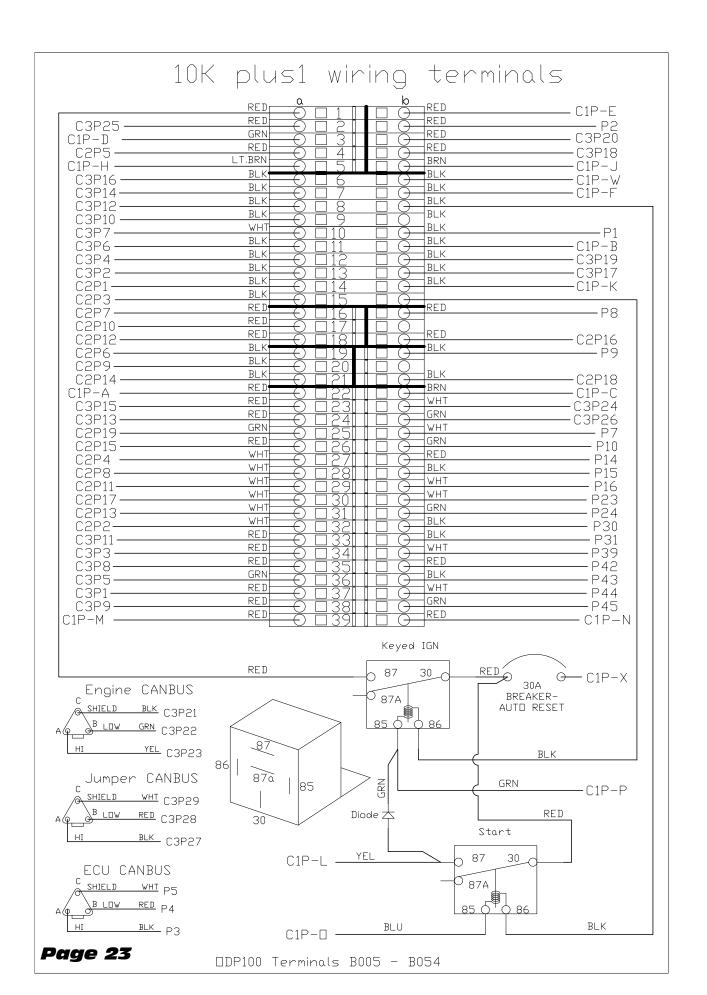
ACAD

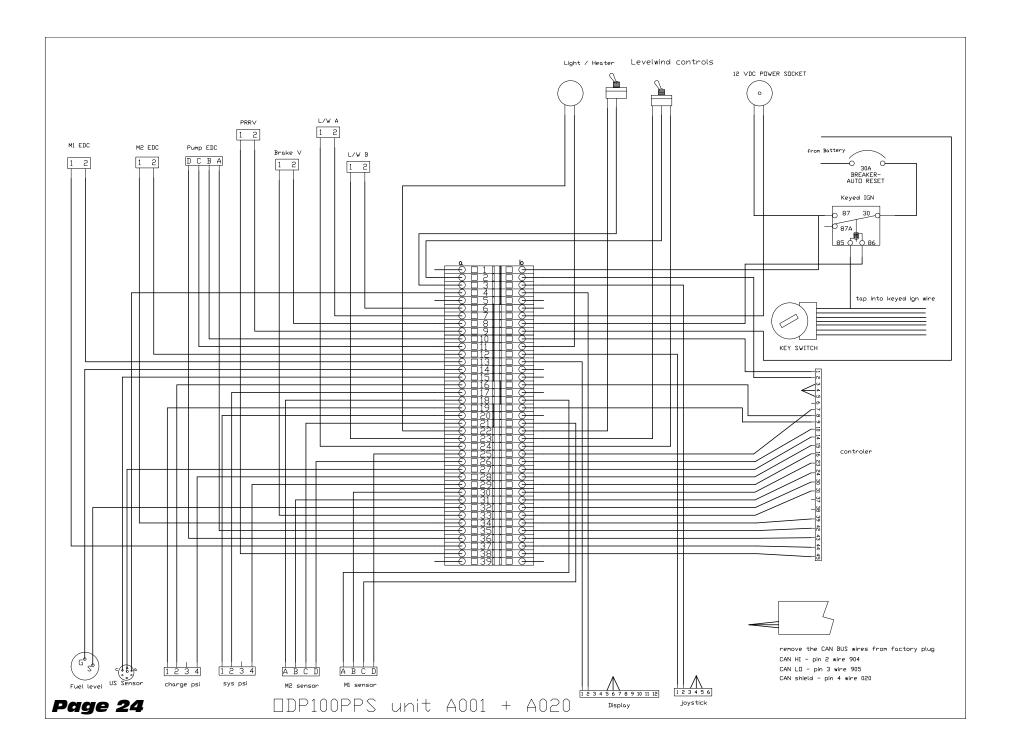
SCALE





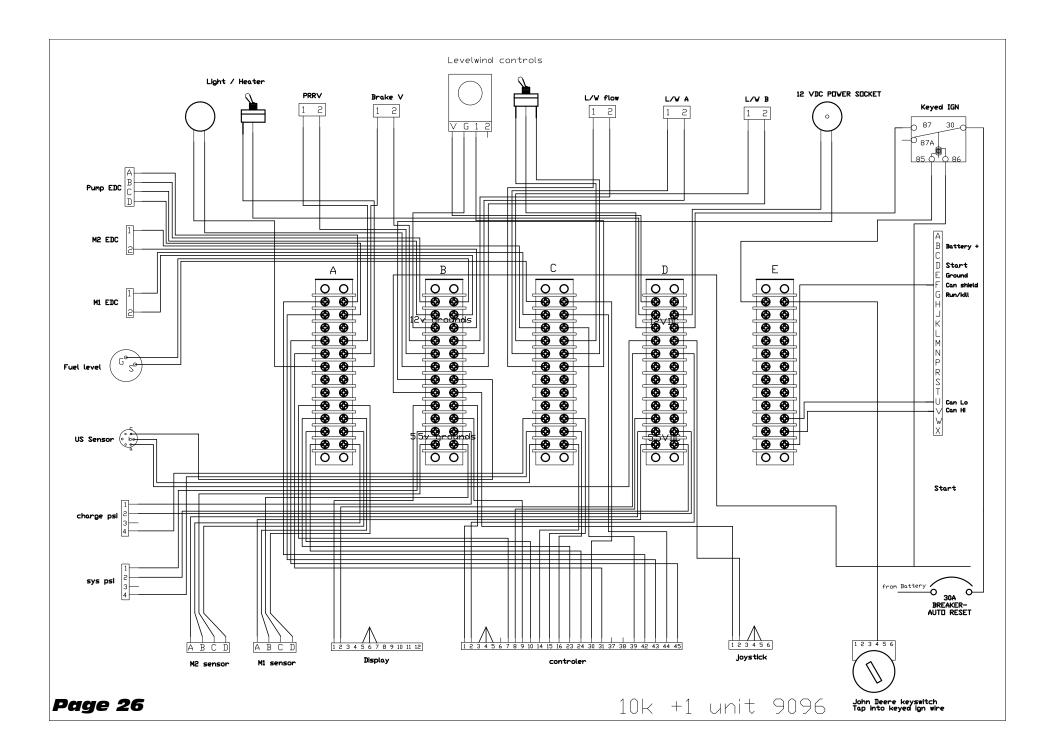


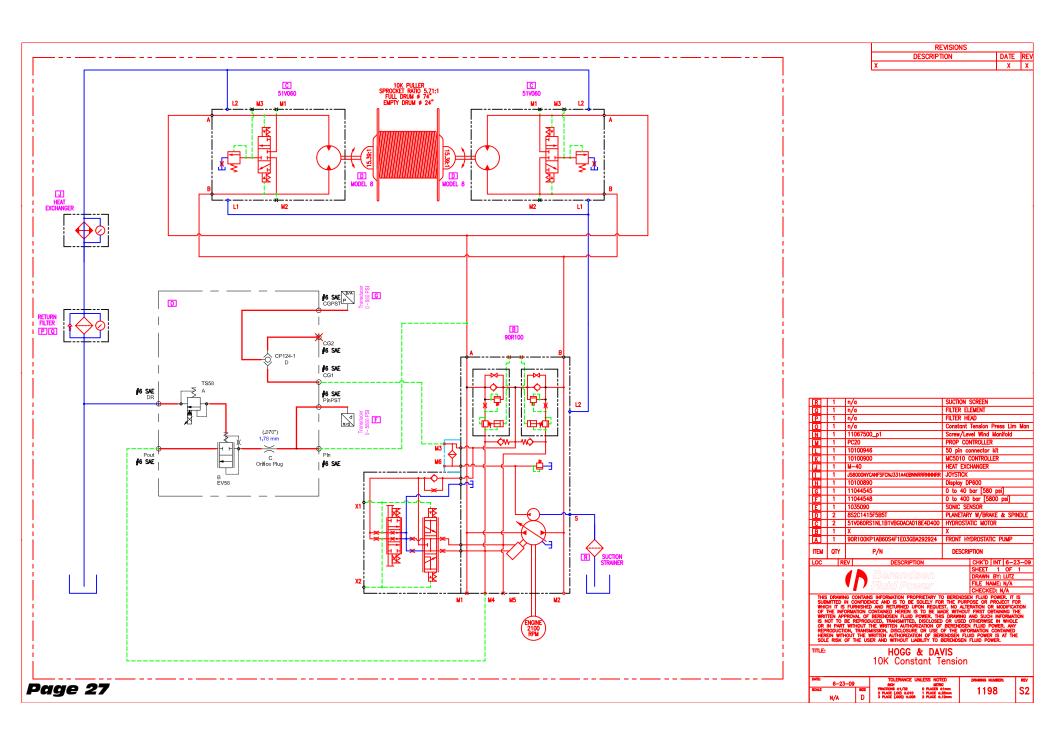




10K	plus1	wining	termina	ls
	-			
	α		RED	— 12V from relay
12V Levelwind switch—			RED	-12V to contoller
12)/ light/hooton cwitcl				— 12V to joystick
12V light/heater switch 12V US Sens	sor ^{ked}	□ 4 🛛 🗆 ⊖-		— 12V to display
Grnd L/W B	BLK OI		_	
Grnd L/W A	BLK		BLK	$a = 12 \sqrt{2}$
Grnd Brake	BLK			round 12V socket switched 12V relay
Grnd PRRV			TBLK CAR	und from battery
Grnd pump 1 EDC (B)-		10 G	BLK	ground controller
Grnd Pump 1 EDC (C)-	BLK D	$\Box 11 \square \Theta$		ound light/heater
Grnd M2 EDC			BLK	— ground joystick — ground display
Grnd M1 EDC	BLK O			— ground display
Grnd Fuel level——— Grnd US Sensor———	BLK 0	□14 □ 0 □15 □ 0	_	
5V+ Charge psi-				/+ from controller
5V+ System psi-				
5V+ MŹ sensor ———	RED 0	181 🗆 Ŏ-	RED	— 5V+ M1 sensor
Grnd charge psi		<u> 19 </u>	<u>BLK</u> 5\	/- from controller
Grnd System psi	BLK D		BLK	
Grnd M2 sensor — Light/heater —	RED		BRN Light (bog	5V- M1 Sensor ter switch output
L/W B			WHT Ugritz riet	Levelwind switch A
		<u> </u>		Levelwind switch B
M1 Sensor (D)———		□25 □ ↔	- WHT - GRN	——————————————————————————————————————
M2 Sensor (D)				C1P10 M2 dir
US Sensor (B)	WHT OI		DL 17	- C1P14 US Sensor
Charge psi	WHT CI			-C1P15 Charge psi -C1P16 System psi
System psi— M1 Sensor (B)—				
M2 Sensor (B) —		<u> </u>	UKIN	
Fuel level — — — — — — — — — — — — — — — — — — —		_32] [_ ⊖-		– C2P30 Fuel level
Brake valve		<u>] 33 [</u>	<u>- вік</u> - wht	1 Planetary brake
M2 EDC			RED	
P1 EDC (A) — P1 EDC (D) —	GRN GRN		BLK	- C2P42 P1 EDC (A) - C2P43 P1 EDC (D)
M1 EDC			WHT	- C2P44 M1 EDC
PRRV		<u> </u>	GRN	C2P45 PRRV
		<u> 391100</u>		
	\square	hit + c	$\wedge \cap \cap 1 +$	$\land \land ? \land$
DAAD 25				

Page 25





Wheel Torque Requirements

Be sure to use only the fasteners matched to the cone angle of your wheel (usually 60° or 90°). The proper procedure for attaching your wheels is as follows:

- 1. Start all bolts or nuts by hand to prevent cross threading.
- 2. Tighten bolts or nuts in the sequence shown for wheel torque requirements.
- 3. The tightening of the fasteners should be done in stages. Following the recommended sequence, tighten fasteners as shown in the chart below.
- 4. Wheel nuts/bolts should be torqued before first road use and after each wheel removal. Check and re-torque after the first 10 miles, 25 miles and again at 50 miles. Check periodically thereafter.

Wheel Size	1st Stage	2nd Stage	3rd Stage		
12"	20-25	35-40	50-75		
13"	20-25	35-40	50-75		
14"	20-25	50-60	90-120		
15"	20-25	50-60	90-120		
16"	20-25	50-60	90-120		
16.5" x 6.75"	20-25	50-60	90-120		
16.5" x 9.75"	55-60	120-125	175-225		
14.5" Demount	Tighten Seq	85-95			
17.5" Hub Pilot Clamp Ring & Cone Nuts	50-60	100-120	190-210		
17.5" Hub Pilot 5/8" Flange Nuts	50-60	90-200	275-325		

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6 BOLT

8 BOLT

5 BOLT

4 BOLT

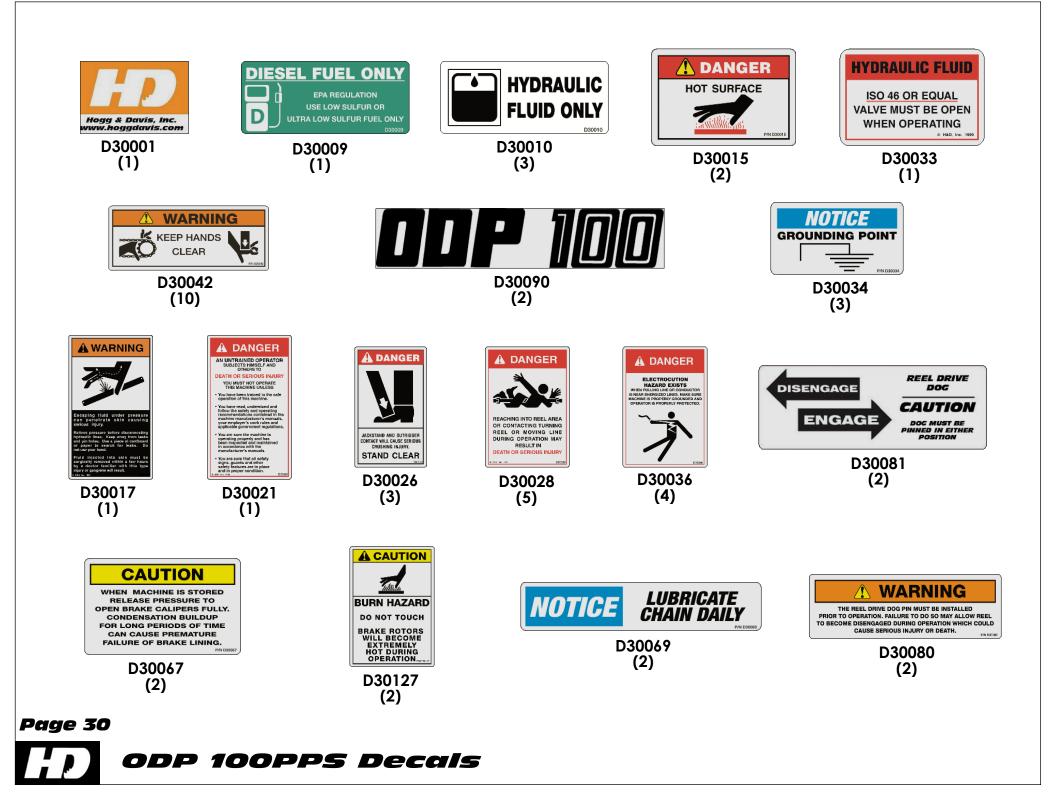
Maximum Wheel Fastener Torque

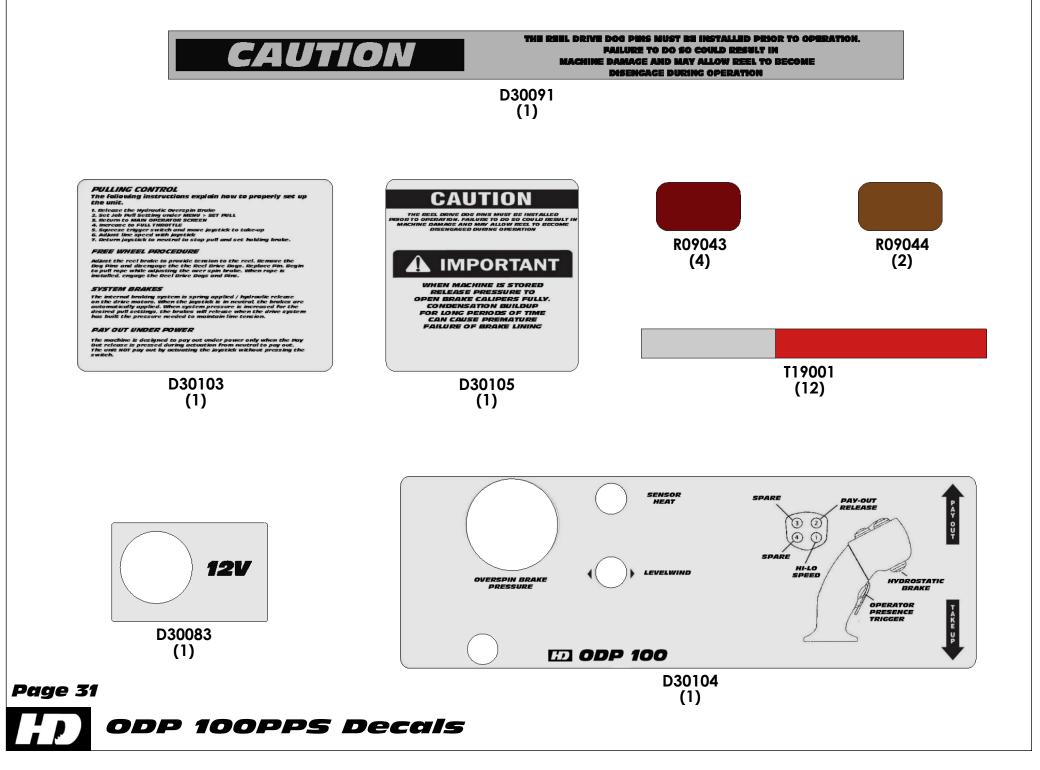
The wheel mounting studs used on Dexter Axles conforms to the SAE standards for grade 8. The maximum torque level that can be safely applied to these studs is listed in the following chart:

Stud Size	Max. Torque
1⁄2"-20 UNF, class 2A	120 lb ft.
9/16"-18, class 2A	170 lb ft.
5/8"-18, class 2A	325 lb ft.

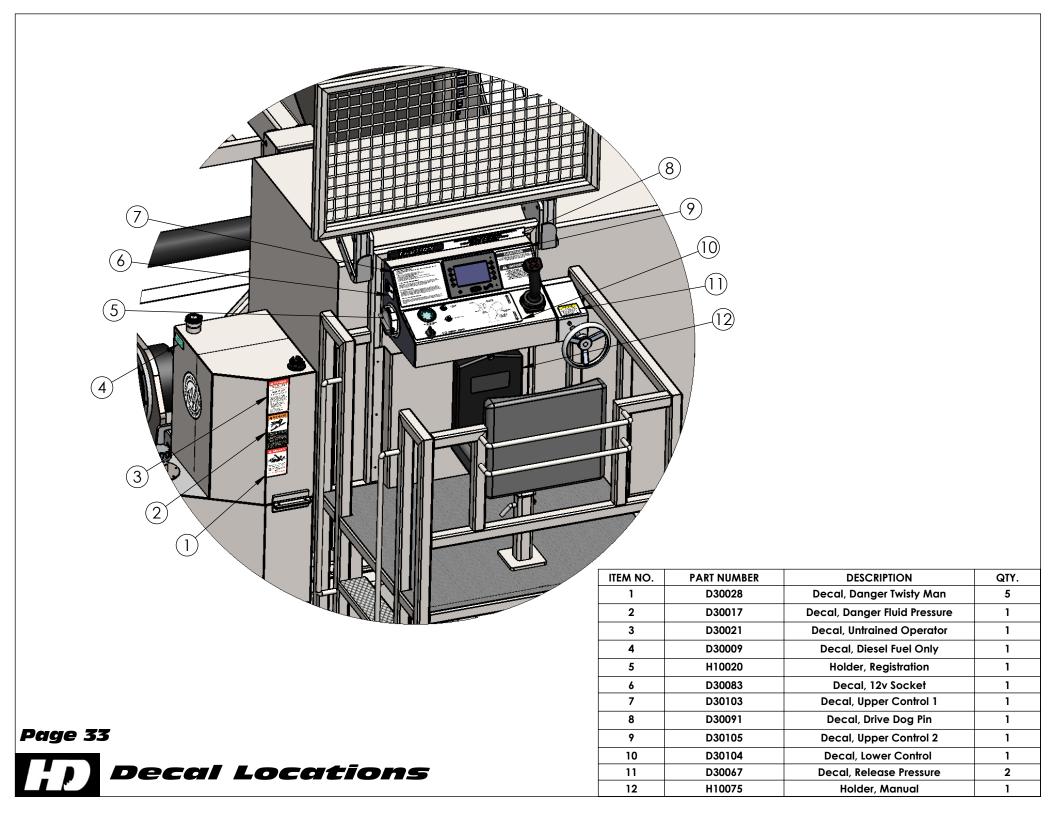
CAUTION

Exceeding the above listed torque limits can damage studs and/or nuts and lead to eventual fractures and dangerous wheel separation.





	ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
	1	R09043	Reflector, Red 2x3-1/2	4
	2	D30001	HD Logo 6x9	1
	3	D30042	Decal, Keep Hands Clear	10
	4	D30015	Decal, Hot Surface	2
	5	D30010	Decal, Hydraulic Fluid Only	3
	6	D30069	Decal, Lubricate Chain Daily	2
	7	D30080	Decal, Caution Drive Dogs	2
	8	D30081	Decal, Reel Drive Dog Engage	2
	9	D30009	Decal, Diesel Fuel Only	1
	10	R09044	Reflector, Amber 2x3-1/2	2
	11	D30034	Decal, Grounding Lug	3
	12	D30090	Tongue Decal ODP100	2
	13	D30026	Decal, Danger Stand Clear	3
Page 32	14	D30028	Decal, Danger Twisty Man	5
	15	D30036	Decal, Electrocution Hazard	4
Decal Locations	16	D30127	Decal, Burn Hazard	2
	17	D30067	Decal, Release Pressure	2



9 10			
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	D30090 D30034	Tongue Decal ODP100 Decal, Grounding Lug	2
2 3	R09044	Reflector, Amber 2x3-1/2	3 2
3 4	T19001	Red/White Reflective tape	12
5	D30015	Decal, Hot Surface	2
6	D30081	Decal, Reel Drive Dog Engage	2
7	D30042	Decal, Keep Hands Clear	10
8	D30080	Decal, Caution Drive Dogs	2
9	D30028	Decal, Danger Twisty Man	5
10	D30036	Decal, Electrocution Hazard	4
11	D30069	Decal, Lubricate Chain Daily	2

D30127

D30001

R09043

D30010

Decal, Burn Hazard

HD Logo 6x9

Reflector, Red 2x3-1/2

Decal, Hydraulic Fluid Only

2

1

4

3

12

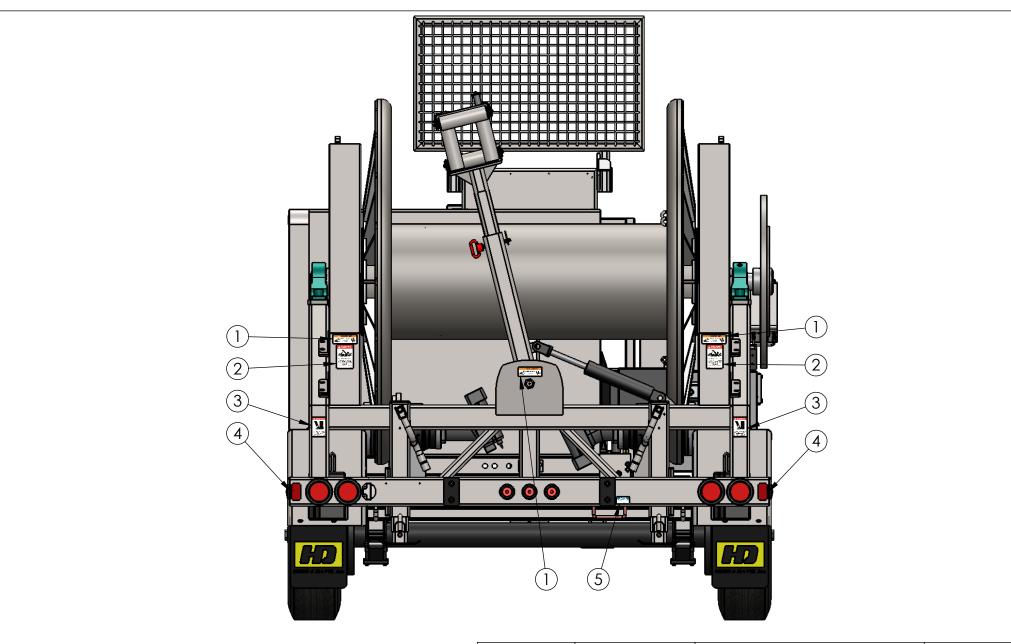
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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	D30042	Decal, Keep Hands Clear	10
2	D30028	Decal, Danger Twisty Man	5
3	D30026	Decal, Danger Stand Clear	3
4	R09043	Reflector, Red 2x3-1/2	4
5	D30034	Decal, Grounding Lug	3

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Decal Locations



