



# NYC DuraPack® 5000

25EA SERIES 001-007

**SERVICE MANUAL**

ISSUED FEBRUARY 2021

**TP1NYDP5-SM-0221**

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**Environmental  
Solutions Group**

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# WARNING

**IF INCORRECTLY USED, THIS EQUIPMENT CAN CAUSE SEVERE INJURY. THOSE WHO USE AND MAINTAIN THE EQUIPMENT SHOULD BE TRAINED IN ITS PROPER USE, WARNED OF ITS DANGERS, AND SHOULD READ AND FULLY UNDERSTAND THIS ENTIRE MANUAL BEFORE ATTEMPTING TO SET UP, OPERATE, ADJUST OR SERVICE THE EQUIPMENT. KEEP THIS MANUAL FOR FUTURE REFERENCE**

## IMPORTANT SAFETY NOTICE

Proper service and repair are important to the safe, reliable operation of Heil Co.'s products. Service procedures recommended by Heil are described in this service manual and are effective for performing service operations. Some of these service operations may require the use of tools or blocking devices specially designed for the purpose. Special tools should be used when and as recommended. It is important to note that some warnings against the use of specific methods that can damage the product or render it unsafe are stated in the service manual. It is also important to understand these warnings are not exhaustive. Heil could not possibly know, evaluate and advise the service trade of all conceivable ways in which service might be done or of the possible hazardous consequences of each method. Consequently, Heil has not undertaken any such broad evaluations. Accordingly, anyone who uses service procedures or tools which are not recommended by Heil must first satisfy himself thoroughly that neither his safety nor the product safety will be jeopardized by the method he selects.

“Heil Environmental, as manufacturer of the equipment that is covered by this manual, is providing a product to the user who has acknowledged to have superior knowledge of the conditions of the use to which the product will be put. Heil Environmental relies upon the user's superior knowledge in specifying any changes or modifications including, but not limited to, the inclusion or non inclusion of options that are required by the user and the Heil product, and for the particular application of the user relative to the Heil product.”

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**NYC DuraPack® 5000**

**25DY SERIES 001-083, 121-131**

**SERVICE MANUAL**

**ISSUED JANUARY 2021**

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## NOTES

# **SERVICE MANUAL**

# NYC DuraPack® 5000

# **BODY AND TAILGATE**

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## Body and Tailgate

### SPECIFICATIONS

Hydraulic Oil Tank .....	54 Gal.
Hydraulic In-Tank Oil Filter .....	3-Micron Absolute
Hydraulic Oil Tank Suction Strainer .....	100 Mesh Screen
Hydraulic Pump .....	Per Pump – 25 Gal/Min @ 1200 RPM @ 2700 PSI
Body Valve Main System Relief Pressure Setting .....	2900 PSI
P1 and P2 Pump Max Pressure Compensator's Setting .....	2900 PSI
Tailgate Valve:	
Blade (Hydraulic Detent) .....	2400 PSI
Slide (Hydraulic/Electric Detent) .....	2400 PSI/Electric
Blade Back Off .....	3900 PSI
Ejector Blade Logic Valve B .....	2100 PSI
Ejector Blade Logic Valve C .....	2350 PSI
Cycle Times – PTO Direct Mount Without Drive Line @ 27 GPM .....	26-28 Second

### INTRODUCTION

The following sections are a guide for maintenance and service of the Heil unit. The sections cover preventive maintenance, adjustment, and troubleshooting hints. Before performing maintenance, check the work area carefully to find all the hazards present and make sure all necessary safeguards or safety devices are used to protect all persons and equipment involved. In order to diagnose a problem quickly and effectively, a service person must be thoroughly familiar with the machine.

This section explains the system and its major components. Diagrams and schematics of the electrical and hydraulic systems are in the Service Manual Schematics section.



#### IMPORTANT!

- Before starting any maintenance, study this section of the manual.
- Read all hazard warnings and decals on the unit.
- Clear the area of other persons before performing any maintenance.
- Know and understand safe use of all controls.
- It is your responsibility to understand and follow manufacturer's instructions on equipment and care.

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## Body and Tailgate

### SERVICE/PARTS ASSISTANCE

Assistance in troubleshooting repair and service is available by contacting the authorized Heil Dealer in your area. Parts are available at your Heil Dealer or through Heil. Heil personnel are trained to give prompt, professional assistance.

ALWAYS give the unit serial number in all correspondence relating to the equipment.

See the back cover of this manual for Heil contact information.

### PRECAUTIONARY STATEMENTS

Listed below are the definitions for the various levels of hazards. It is important that the operators of this equipment and people who service units read and understand all warnings as they relate to this equipment operation.

- **DANGER** – indicates a hazardous situation, which if not avoided WILL result in DEATH or SERIOUS INJURY if you do not follow proper instructions.
- **WARNING** – indicates a hazardous situation, which if not avoided COULD result in DEATH OR SERIOUS INJURY if you do not follow proper instructions.
- **CAUTION** – indicates a hazardous situation, which if not avoided COULD result in MINOR to MODERATE INJURY if you do not follow proper instructions.
- **NOTICE** – addresses practices not related to personal injury, such as property damage or damage to the equipment.

The following warnings are generally in the Operator's Manual for each specific unit or are generic safety messages if an Operator's Manual does not have these safety messages. Other safety alert messages may be in other sections of the Parts and Service Manual or in an Operator's Manual. You must read and obey all safety alert messages in any manual produced by Heil to support your unit.

#### **WARNING**

Failure to follow all instructions and safety precautions in this manual, in the Service Manual, in other manufacturer's manuals and on the safety decals attached to the product could result in serious injury or death to operators or bystanders and/or damage to property. Do not operate this vehicle before you read and understand the Operation Manual, the Parts Service Manual for this unit, other applicable manufacturer's manuals and the safety decals on the product. Each operator of this unit must read and understand all directions in this manual before they first operate this vehicle. Keep this manual in the cab for new operators and to remind all operators about safe use.

#### **DANGER**

Do not operate the unit or perform repair or maintenance procedures on the unit until you read and understand all of the instructions in this manual. Failure to do so can result in death or serious injury to operators or bystanders.

#### **DANGER**

Make sure the unit is on firm, stable ground before you raise the body and clear the area of all unnecessary people. Do not prop a body unless it is on firm, stable ground. A unit not on firm, stable ground can roll when raising or propping the body. This can cause death or serious injury to you or bystanders.

#### **DANGER**

Always prop the tailgate when you leave it raised for maintenance, service or cleaning procedures. Any part of your body between the unit's body and the tailgate while you prop the tailgate or when the tailgate is propped is dangerous. Death or serious injury can occur if any part of your body is between the tailgate and the body if the tailgate suddenly closes.

#### **DANGER**

A tailgate in motion is dangerous. Serious injury or death can occur if a person is struck by a moving tailgate or becomes trapped between the tailgate and the body. Clear the area near the tailgate of all unnecessary people before you lower the tailgate.



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## Body and Tailgate

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### **DANGER**

The packer and crusher panels are dangerous. They can cause death or serious injury if a person is inside the hopper. Make sure no one is inside the hopper before you begin a packer or crusher function. Put the unit in the Lock-Out/Tag-Out mode if it is necessary to enter the hopper area.

### **DANGER**

Keep all parts of your body out from underneath the unit's body and away from the cylinders when raising or lowering the body. Serious injury or death will occur if the unit's body suddenly lowers and traps a part of your body.

### **DANGER**

Do not raise a body that has refuse while you do maintenance or service procedures. Refuse in the body can make the unit unstable. Always unload refuse from the body before you raise it for maintenance or service procedures. Always use the body props when you raise the body for maintenance or service procedures.

### **DANGER**

A full or partially full load of refuse is dangerous while you lower the body with inoperative controls. Refuse in the body can make the unit unstable and cause it to overturn. Serious injury or death can occur if the unit overturns due to instability caused by the loaded refuse. REMOVE the refuse before you block the body.

### **DANGER**

Lifting equipment that does not have sufficient lifting capability is dangerous. Equipment can fail and cause death or serious injury to the operator or bystanders. Make sure the lifting equipment has sufficient lifting capability and clear ALL persons not involved with the procedure away from the area.

### **DANGER**

The lifting equipment can fail. Serious injury or death can occur if the lifting equipment breaks and the body falls or the unit rolls over. Do not place your body or limbs between the unit's body and chassis while you remove the body-supporting timbers. Be attentive and prepared to move quickly away from the unit in the event there is an equipment failure.

### **DANGER**

Contact of the unit with overhead electric lines is dangerous. Death or serious injury can occur. Make sure there is adequate overhead clearance before you raise the container. If the unit does make contact with overhead electric lines do not touch any metal in the cab. Stay in the unit until help arrives..

### **WARNING**

Make sure the unit is in the Lock-Out/Tag-Out mode when you do maintenance or service procedures, or when you go in the hopper, climb in or on the body or on equipment. Equipment can be operated when the unit is not in the Lock-Out/Tag-Out mode. When the unit is not in the Lock-Out/Tag-Out mode, equipment operated while you do maintenance or service procedures, go in the hopper or climb in or on the body or on equipment can cause death or serious injury.

### **WARNING**

Moving equipment can be dangerous to bystanders. Death or serious injury can occur if a person is in the wrong area or is not attentive to the operations. Clear the area of all unnecessary people before you operate the controls.

### **WARNING**

Raising the body with the tailgate closed can damage the underride bumper. The under ride bumper can hit the ground when the tailgate is not fully raised before you raise the body. Death or serious injury can occur and also cause damage to the unit.

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## Body and Tailgate

### **WARNING**

Clear all people of the area before you lift a refuse container. Make sure the refuse is secure in the refuse container before you lift the container. Loose refuse can fall and cause death or serious injury.

### **WARNING**

The hydraulic fluid can be under pressure and can spray while you open the connection. Hydraulic fluid can cause damage to your eyes, hands or skin. Wear protective eye glasses, gloves and other clothing as necessary to protect you from the hydraulic fluid.

### **WARNING**

A unit that needs service or repair can malfunction and create a dangerous condition. A part failure during operation can cause death or serious injury to a person or damage to the unit. Repair or replace any failed or defective part immediately.

### **WARNING**

Improper dumping of the refuse can cause the unit to tip or rollover. Death or serious injury can occur if the unit rolls or tips over. Empty as much refuse as you can with the packer panel before you raise the body.

### **WARNING**

Do not move the unit forward or backwards excessively fast (lurch) to dump the refuse load. Excessively fast movements with the body raised can make the body unstable and tip or roll the unit over. This can result in death or serious injury to the operator and damage the unit. Use only sufficient movement to loosen the load so that it will leave the body.

### **WARNING**

Isopropyl alcohol is flammable and is harmful to eyes and skin. Keep isopropyl alcohol away from heat or open sources of ignition. Flush eyes and skin with water for 15 minutes after contact. Seek immediate medical help.

### **WARNING**

A container that is not locked to the container lift mechanism is dangerous. The container can fall off the container lift mechanism and cause death or serious injury. Make sure you engage and lock the container latch bars before you lift the container.

### **WARNING**

Grabbing a refuse container with too much pressure can damage the container. Pieces of the container can “fly” off the container and cause moderate or minor injury to a bystander. Use enough pressure with the grabber to raise the container with the lift arm and not damage the container.

### **NOTICE**

Do not move the unit forward or backwards excessively fast (lurch) to dump the refuse load. Excessively fast movements with the body raised puts a very high load on the body raise cylinders and could damage one or both cylinders and make the body unstable unable to lower. Inspect the cylinders after you dump each load and replace if necessary.

### **NOTICE**

Do not operate the unit or perform repair or maintenance procedures on the unit until you read and understand the instructions in this manual. Failure to do so can result in damage to the unit or other property. If you do not understand a procedure or instruction, tell the owner or the designated person immediately. Do not operate the unit if you do not understand all procedures and instructions in this manual. The owner or designated person can contact your Heil dealer or Heil for additional help. See the Operator's Manual or Service Manual for contact information.

**NOTICE**

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Grabbing a refuse container with too much pressure can damage the container. The container can become unusable. Use enough pressure with the grabber to raise the container with the lift arm and not damage the container.

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**NOTICE**

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Always use your employer's Lock-Out/Tag-Out procedures. If your employer does not have Lock-Out/Tag-Out procedures, use the procedures that follow. Contact your supervisor or ESG Technical Service if you have any questions about Lock-Out/Tag-Out procedures.

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**NOTICE**

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You can order Lock-Out/Tag-Out Tags through your Heil Dealer or through Heil.

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# NYC DuraPack® 5000

## Body and Tailgate

### LOCK-OUT/TAG-OUT PROCEDURES

#### NOTICE

Always use your employer's Lock-Out/Tag-Out procedures. If your employer does not have Lock-Out/Tag-Out procedures, use the procedures that follow. Contact your supervisor or Heil Technical Service if you have any questions about Lock-Out/Tag-Out procedures.

Put the unit in a Lock-Out/Tag-Out mode:

- BEFORE you enter the unit's body
- BEFORE you do maintenance, repair or cleaning procedures on the unit.



Figure 1. Lock-Out/Tag-Out (Do Not Operate) Tag

Follow These Steps:

1. APPLY the brakes. MAKE SURE the brakes do not let the unit move and they work properly.
2. Chock all wheels.
3. SET the tailgate props when you raise the tailgate for service, maintenance or cleaning.
4. SET the body props when you raise the body for service, maintenance or cleaning.
5. When there are in-cab controls, turn the ignition switch to ON then:
  - a. Move the switches of the hydraulic controls. This relieves the pressure in the cylinders.
  - b. Turn the ignition switch to OFF.
6. When there are no in-cab controls, move the outside control levers to relieve the pressure in the cylinders.
7. Put a LOCK-OUT/TAG-OUT Tag onto the steering wheel.
8. Remove the ignition key from the cab, lock the vehicle, and put the key in a secure location.
9. You can order Lock-Out/Tag-Out Tags (Part Number 212-1586) through your Heil Dealer or through Heil.

## **STORING REFUSE IN THE BODY**

Heil does not recommend storing refuse in the body overnight. The different types of debris and corrosive elements usually collected can cause severe corrosion inside the body decreasing the life of your body. This corrosion can affect unloading and decrease the structural life of the body. In addition, storing refuse in the body overnight can increase the risk of fire.

## **MAINTENANCE/LUBRICATION INFORMATION**

Before performing maintenance, check the job carefully to find all the hazards present and make sure all safe guards or safety devices are in place to protect all persons and equipment involved.

## **GREASE LUBRICANT RECOMMENDATION**

Use a grease gun. Before engaging grease gun, clean the fitting. Always pump enough grease to purge the joint of contaminated grease and wipe off the excess grease. Lubricate a unit as given on the lubrication decal on the unit and in the Parts and Service Manual and Operator's Manual. Use NLGI 000 grease.

## **OIL LUBRICANT RECOMMENDATION**

Use only non-detergent engine oil to lubricate all moveable mechanical parts not furnished with grease fittings. Apply sufficient oil to give good lubrication, but do not bathe parts in oil. Always wipe off excess oil.

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## Body and Tailgate

### HYDRAULIC OIL SPECIFICATIONS

Hydraulic fluid is one of the most important component in hydraulic system. It transmits power, provides lubrication and cooling function and has following features:

- High viscosity index
- Long service life
- Outstanding cold temperature flow properties
- Fast water separation
- Excellent anti-wear performance
- Long term oxidation stability
- Superior rust and corrosion protection
- Exceptional shear stability / filterability
- Excellent thermal and hydrolytic stability
- Anti-foam characteristics
- High performance of air release characteristics

Current Heil standard hydraulic oil is Shell Tellus S2 VX 32. Please see product TDS and MSDS for more detail information about it. We strongly recommend to use it on Heil products to get best system performance and oil service life.

The following oils can be used on Heil products if Heil standard hydraulic oil (Shell Tellus S2 VX 32) is not available. But system performance and/or oil service life may be compromised.

- Castrol Dual Range HV 32
- Chevron Rando HDZ 32
- Mobil DTE 10 Excel 32

### STANDARD TORQUE DATA FOR NUTS AND BOLTS

The following recommended torque data is for use as a general guideline. Recommended torque, in foot pounds, for all Standard Application nuts and bolts provided in the following table.

#### NOTICE

Torque specifications on a drawing override torque values in the Standard Torque Data for Nuts and Bolts Table.

- All thread surfaces are clean and lubricated with SAE-30 engine oil. See notice above.
- Joints are rigid, that is no gaskets or compressible materials are used
- When re-using nuts or bolts use minimum torque values

STANDARD TORQUE DATA FOR NUTS AND BOLTS TABLE							
Bolt Size (D)	Nut Type (STD/Lock)	Thread Turns per Inch (p)	Grade	Heil Plain Dry Condition Torque Value (ft-lbs)	Heil Zinc Plated Fastener Torque Value (ft-lbs)	Heil Lubricated Fastener Torque Value (ft-lbs)	Heil Deformed Lock Nut Torque Value (ft-lbs)
1/4 0.25	STD	20	5	9	8	6	
			8	13	12	8	
		28	5	10	9	7	
			8	15	13	10	
	Lock	20	5				6
			8				8
		28	5				7
			8				10
5/16 .3125	STD	18	5	19	17	12	
			8	27	24	17	
		24	5	21	19	14	
			8	29	27	19	
	Lock	18	5				12
			8				17
		24	5				14
			8				19
3/8 .375	STD	16	5	33	30	22	
			8	47	42	31	
		24	5	38	34	25	
			8	54	48	35	
	Lock	16	5				22

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## Body and Tailgate

### STANDARD TORQUE DATA FOR NUTS AND BOLTS TABLE

Bolt Size (D)	Nut Type (STD/Lock)	Thread Turns per Inch (p)	Grade	Heil Plain Dry Condition Torque Value (ft-lbs)	Heil Zinc Plated Fastener Torque Value (ft-lbs)	Heil Lubricated Fastener Torque Value (ft-lbs)	Heil Deformed Lock Nut Torque Value (ft-lbs)
			8				31
		24	5				25
			8				35
7/16 .4375	STD	14	5	53	48	35	
			8	76	68	49	
		20	5	60	54	39	
			8	84	76	55	
	Lock	14	5				35
			8				49
		20	5				39
			8				55
1/2 .500	STD	13	5	82	73	53	
			8	115	104	75	
		20	5	92	83	60	
			8	130	117	84	
	Lock	13	5				53
			8				75
		20	5				60
			8				84
9/16 .5625	STD	12	5	118	106	77	
			8	166	150	108	
		18	5	131	118	85	
			8	186	167	121	
	Lock	12	5				77
			8				108
		18	5				85
			8				121
5/8 .625	STD	11	5	162	146	106	
			8	230	207	149	
		18	5	184	166	120	
			8	260	234	169	



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## Body and Tailgate

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### STANDARD TORQUE DATA FOR NUTS AND BOLTS TABLE

Bolt Size (D)	Nut Type (STD/Lock)	Thread Turns per Inch (p)	Grade	Heil Plain Dry Condition Torque Value (ft-lbs)	Heil Zinc Plated Fastener Torque Value (ft-lbs)	Heil Lubricated Fastener Torque Value (ft-lbs)	Heil Deformed Lock Nut Torque Value (ft-lbs)
	Lock	11	5				106
			8				149
		18	5				120
			8				169
3/4 0.750	STD	10	5	288	260	188	
			8	408	367	265	
		16	5	322	290	209	
			8	455	409	295	
	Lock	10	5				188
			8				265
		16	5				209
			8				295
7/8 0.8750	STD	9	5	465	418	302	
			8	657	591	427	
		14	5	513	461	333	
			8	724	652	471	
	Lock	9	5				302
			8				427
		14	5				333
			8				471
1 1.0000	STD	8	5	697	627	453	
			8	984	886	640	
		14	5	782	704	508	
			8	1105	994	718	
	Lock	8	5				453
			8				640
		14	5				508
			8				718
1-1/8 1.1250	STD	7	5	869	782	565	
			8	1395	1256	907	
		12	5	975	877	634	

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## Body and Tailgate

### STANDARD TORQUE DATA FOR NUTS AND BOLTS TABLE




Bolt Size (D)	Nut Type (STD/Lock)	Thread Turns per Inch (p)	Grade	Heil Plain Dry Condition Torque Value (ft-lbs)	Heil Zinc Plated Fastener Torque Value (ft-lbs)	Heil Lubricated Fastener Torque Value (ft-lbs)	Heil Deformed Lock Nut Torque Value (ft-lbs)
	Lock		8	1564	1408	1017	
		7	5				565
			8				907
		12	5				634
			8				1017
1-1/4 1.2500	STD	7	5	1227	1104	797	
			8	1969	1772	1280	
		12	5	1358	1222	883	
			8	2179	1961	1417	
	Lock	7	5				797
			8				1280
		12	5				883
			8				1417
1-3/8 1.3750	STD	6	5	1608	1447	1045	
			8	2580	2322	1677	
		12	5	1830	1647	1190	
			8	2938	2644	1909	
	Lock	6	5				1045
			8				1677
		12	5				1190
			8				1909
1-1/2 1.5000	STD	6	5	2134	1921	1387	
			8	3425	3083	2226	
		12	5	2401	2161	1561	
			8	3854	3468	2505	
	Lock	6	5				1387
			8				2226
		12	5				1561
			8				2505

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## Body and Tailgate

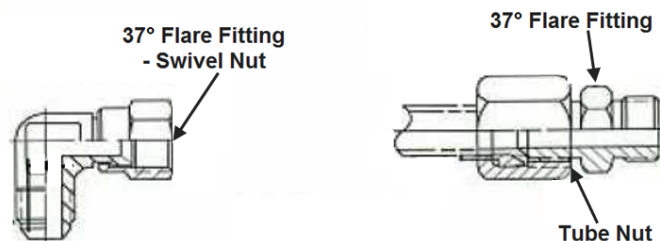
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### BOLT TYPE IDENTIFICATION CHART

IH Type	S.A.E. Grade	Description	Bolt Head Marking**
1	1 or 2	No radial lines. Low or medium carbon steel not heat treated. NOT USED, replace with same grade bolt.	
5	5	Three radial lines. Quenched and tempered medium carbon steel.	
8	8	Six radial lines. Quenched and tempered special carbon or alloy steel	

### TORQUE FOR HYDRAULIC FITTINGS

37 Degree Flare (JIC) Fittings		
	SET WRENCH TO	
Nominal Tube OD	Torque Wrench Setting	Alternate Torque Units
1/8"	6.5 ft-lbs.	80 in-lbs.
3/16"	9 ft-lbs.	110 in-lbs.
1/4"	12.5 ft-lbs	150 in-lbs.
5/16"	16.5 ft-lbs	200 in-lbs.
3/8"	21 ft-lbs	250 in-lbs.
1/2"	41 ft-lbs	490 in-lbs.
5/8"	64 ft-lbs	770 in-lbs.
3/4"	89 ft-lbs	1070 in-lbs.
7/8"	105 ft-lbs	1260 in-lbs.
1"	130 ft-lbs	1560 in-lbs.
1-1/4"	142.5 ft-lbs	1710 in-lbs.
1-1/2"	178.5 ft-lbs	2140 in-lbs.
2"	250 ft-lbs	3000 in-lbs.



# NYC DuraPack® 5000

## Body and Tailgate

### BATTERY DISCONNECT SWITCH

The battery box is typically located on the streetside of the chassis frame near the front of the body, however it can be mounted at a different location on different chassis. Become familiar with the location of the battery box and battery disconnect switch on your unit.

1. You must turn the battery disconnect switch to the OFF position whenever the unit is shut off for any length of time – especially when the unit will be left unattended.
2. You must turn the battery disconnect switch to the ON position whenever you will use the unit.
3. You must check the position of the battery disconnect switch as part of the daily inspection.

#### NOTICE

Battery cables must be securely anchored and not rubbing other equipment. Cable insulation must be free of damage and abrasion. Inspect weekly.

#### NOTICE

Always disconnect the battery before welding on the chassis or body.

### INSPECT PROXIMITY SWITCHES

See **Proximity Switch Troubleshooting**  201 for recommended procedures for inspecting proximity switches.

### PROXIMITY SWITCH TROUBLESHOOTING

When one or more of a unit's functions do not operate properly and there are proximity switches in the circuits of the unit for these functions, refer to the following table as a guide to find the problem(s).

#### NOTICE

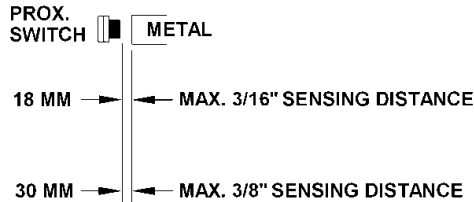
Heil proximity switches have a Light Emitting Diode (LED) on the switch to indicate that the switch is sensing metal. The light changes color when the switch senses metal. Green indicates the switch is ON. Yellow indicates the switch senses metal. Some proximity switches only have the yellow light.

PROXIMITY SWITCH TROUBLESHOOTING TABLE	
Probable Cause	Remedy
Loose or corroded electrical connections.	Replace the electrical connections.
Damaged Switch A. Cracked Ferrite core causing the fine internal wire to break. B. Cracked Ferrite core – but wire is not broken – the sensitivity of switch will increase which causes sensing distance to increase or switch work intermittently as the temperature changes.	<ul style="list-style-type: none"> <li>• DO NOT strike switch to make it work.</li> <li>• DO NOT damage the switch when you adjust it.</li> <li>• DO NOT adjust switch too close to the metal it is sensing.</li> </ul>
Voltage spikes from truck chassis electrical system will break down the internal electronics of the proximity switch.	1. Make sure the power source from the chassis manufacturer is clean. 2. The body electrical system is protected from voltage spikes.
Improper Sensing Range	Adjust proximity switches to sense metal as follows:

# NYC DuraPack® 5000

## Body and Tailgate

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PROXIMITY SWITCH TROUBLESHOOTING TABLE	
	
If the controller input light stays on when a switch is unplugged <b>(the signal wire is carrying +12V DC)</b>	Check the proximity switch electrical circuits for the source of the problem.
If proximity switch LED light is NOT ON.	<ol style="list-style-type: none"> <li>1. Check the fuse relay block (Half/Packs with IFM controllers). The fuse/relay box is located in the cab. Or Check the in-line fuses (Side Loaders with IFM controllers). The in-line fuses are located in the cab.</li> <li>2. Unplug proximity switch.</li> <li>3. Check the power wire (terminal C) for +12 VDC with a multi-meter.</li> <li>4. Check ground signal with multi-meter for continuity to chassis ground.</li> <li>5. Check the signal wire for continuity to appropriate controller input terminal. (Refer to SM9.)</li> <li>6. If all three (3) wires are good, replace the proximity switch.</li> </ol>

# NYC DuraPack® 5000

## Body and Tailgate

### PROXIMITY SWITCH ADJUSTMENTS

#### **DANGER**

Before entering the body area, place the unit in Lock-Out/Tag-Out mode. See Service Manual Section 1 for the Lock-Out/Tag-Out Procedure. By these proper steps not being taken, it may result in injury or death.

#### **NOTICE**

The LED indicator light on the side of the switch will be OFF; the indicating switch is in an open position.

#### **NOTICE**

The LED indicator light on the side of the switch will be ON, the indicating switch is in a closed position.

#### A. Throttle Advance Switch Adjustment

1. With the blade and slide spools in neutral position, proximity switch striker should be centred directly in front of and 3/16" away from the face of the proximity switch. See Figure 2 Slide Panel.
2. Moving the proximity switch striker away from the switch by shifting one slide or blade panel spools in either direction will cause the proximity switch to close and actuate the throttle advance.
3. Adjust the switch by loosening the clamp mounting hardware and moving the switch to within 3/16" from striker.
4. Tighten clamp after adjustment has been made.

#### B. Tailgate Raise/Unlock Alarm Switch Adjustment

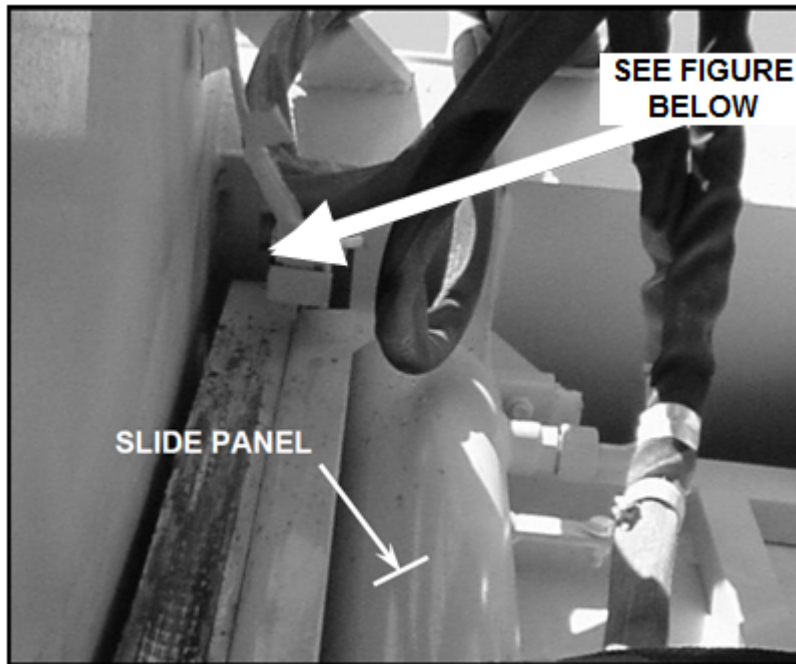
This switch is used to indicate the tailgate has been unlocked and raised to the open position.

1. When the tailgate is unlocked and raised, the proximity switch will close and cause the tailgate alarm to sound. See Figure 3 Slide Retract Proximity Switch.
  - a. When tailgate is open, power is sent to alarm.
  - b. When tailgate is CLOSED, power is off from alarm.
2. When tailgate is lowered and locked, proximity switch will open and the alarm will stop.
3. Adjust the switch by loosening the clamp mounting hardware and moving the switch to within 3/16" from striker.
4. Tighten clamp after adjustment has been made.

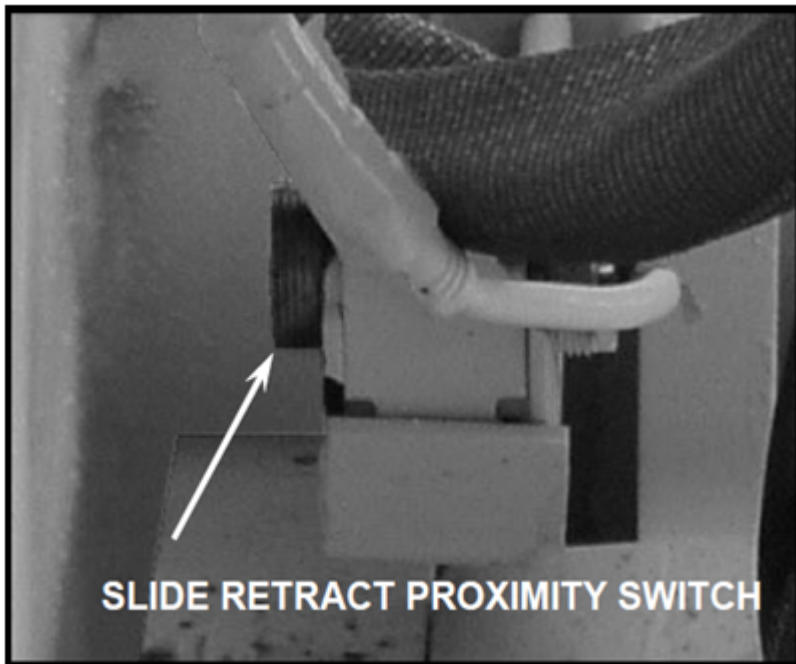
#### C. Slide Retract Switch Adjustment

1. Start engine and engage PTO (or front mount pump).
2. Using the slide control mechanism, position slide to fully in (retracted) position.
3. Place unit in LOTO
4. Adjust proximity switch to sense striker in this position. Adjustments are made by loosening the striker, and positioning it 3/16" away from the proximity switch.
5. Remove unit from LOTO
6. Start engine and engage PTO (or front mount pump).
7. Run full slide panel cycle (in and out) to verify adjustment of proximity striker.

**PROXIMITY SWITCH ADJUSTMENTS (CONTINUED)**



**Figure 2**



**Figure 3**

# NYC DuraPack® 5000

## Body and Tailgate

### DECALS ON THE UNIT

Make sure you can read all hazard and instruction decals. Clean decals if you cannot read the words. See for directions on cleaning decals.

Replace any decal that is damaged, missing, or is not readable.

When you replace a part that has a decal, make sure a new decal is installed on the new part. See the Parts and Service manual for a complete decal kit and individual decals. Order the decal kit or individual decals from your Heil Dealer or from Heil.

### DECAL CARE

It is important that the decals are properly cleaned to make sure that they are readable and do not come off the unit. Use the following steps to clean the decals.

#### A. General Instructions

Following these instructions helps the decals adhere longer.

- Wash the decals with a blend of mild car wash detergent and clean water
- Rinse with clean water
- Let the vehicle air-dry or dry with a micro-fiber cloth
- Do not allow fuels to stay in contact with the decal for an extended period of time. Remove the fuel contamination as quickly as possible
- Do not use carnauba-based wax over the decals
- Do not use a mechanical brush while washing the decals.

#### B. Pressure Washer Precautions

Pressure washing can cause damage to decals. It can cause the edges of the decals to lift and peel the decal away from the unit. Over time, the decal can fade, crack or chip away.

Use pressure washing only when other cleaning methods are not effective. If you use a pressure washer, use the following precautions.

- Spray nozzle opening: 40° wide pattern
- Spray angle: 65° from vehicle's body (do not use sharp angles – this can lift the decals from the unit)
- Distance of nozzle to decal: 15" minimum
- Water pressure: ≤ 800 psi
- Length of time: not more than 30 sec.
- NEVER use a "turbo pressure nozzle".

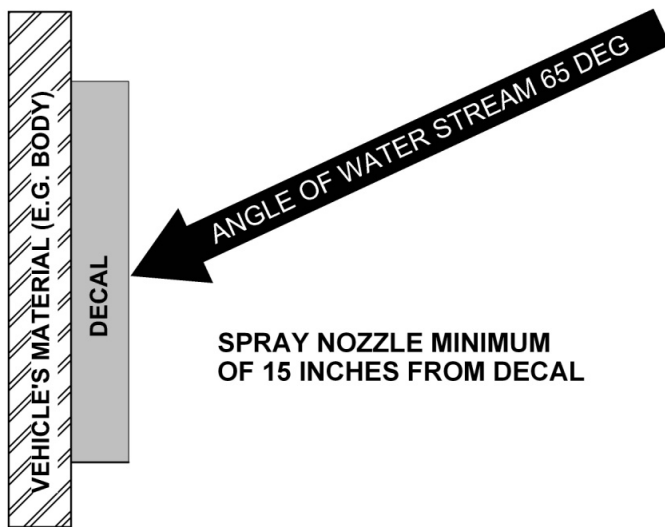
#### C. Remove Difficult Debris

When normal cleaning procedures do not remove difficult debris from the decals, try the following:

- Spot clean the decal with Isopropyl Alcohol and a micro-fiber cloth (rag)
- If these methods do not work on a problem area, call a Heil Dealer or Heil Customer Support.

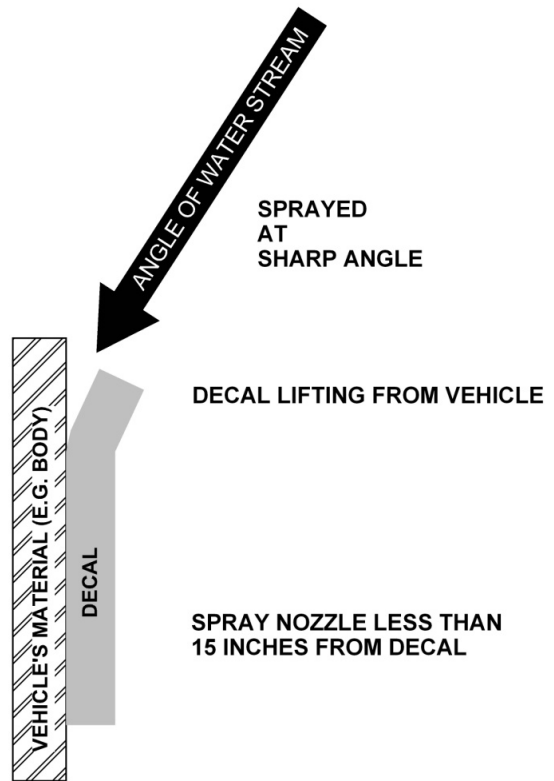


**DECAL CARE (CONTINUED)**



**RECOMMENDED TECHNIQUE**

**Figure 4. Recommended Technique**



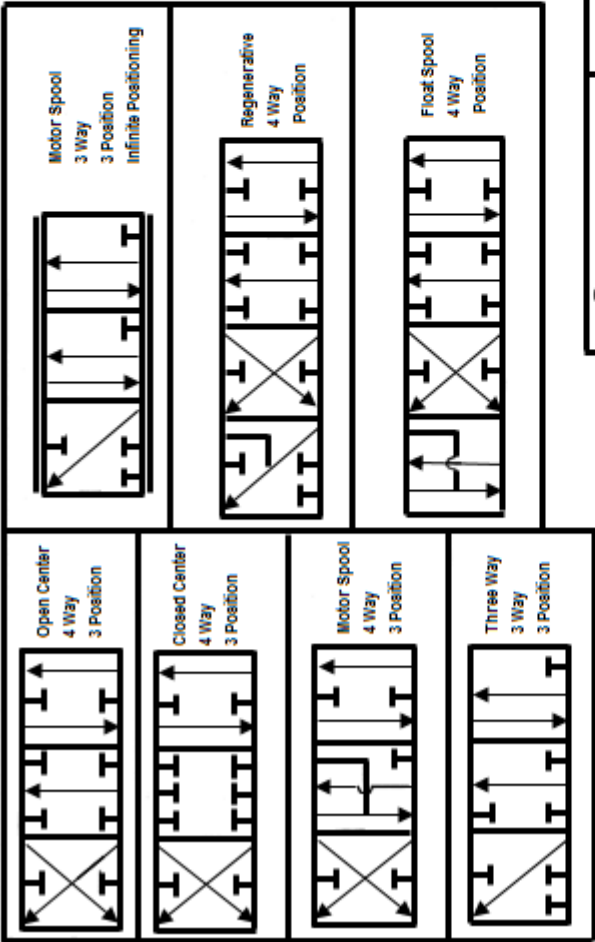
**INCORRECT TECHNIQUE**

**Figure 5. Incorrect Technique**

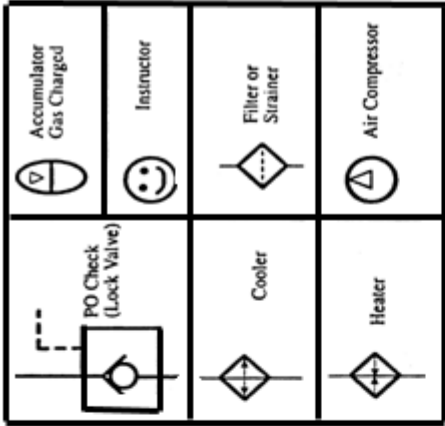
NYC DuraPack® 5000  
Body and Tailgate

HYDRAULIC SYMBOLS

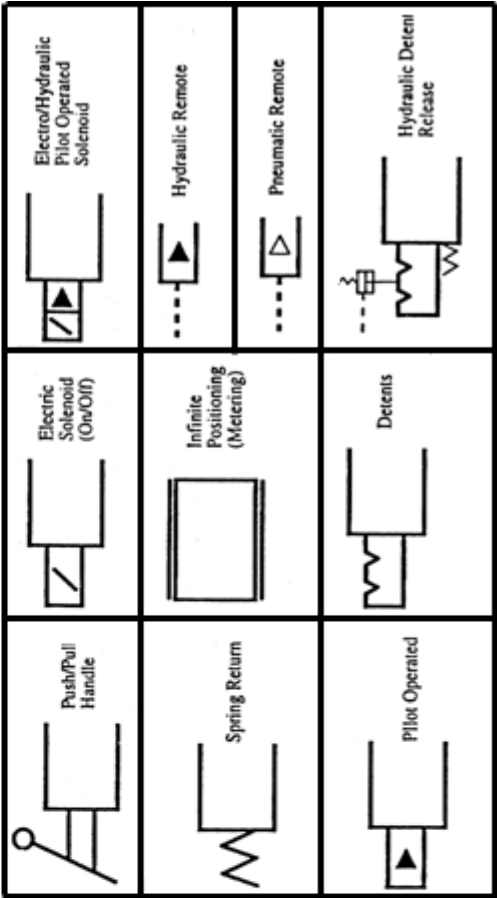
Directional Control Valves



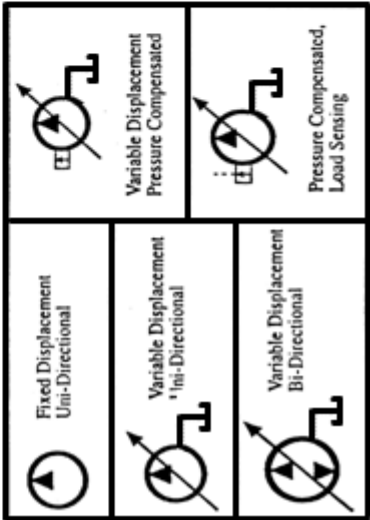
Miscellaneous



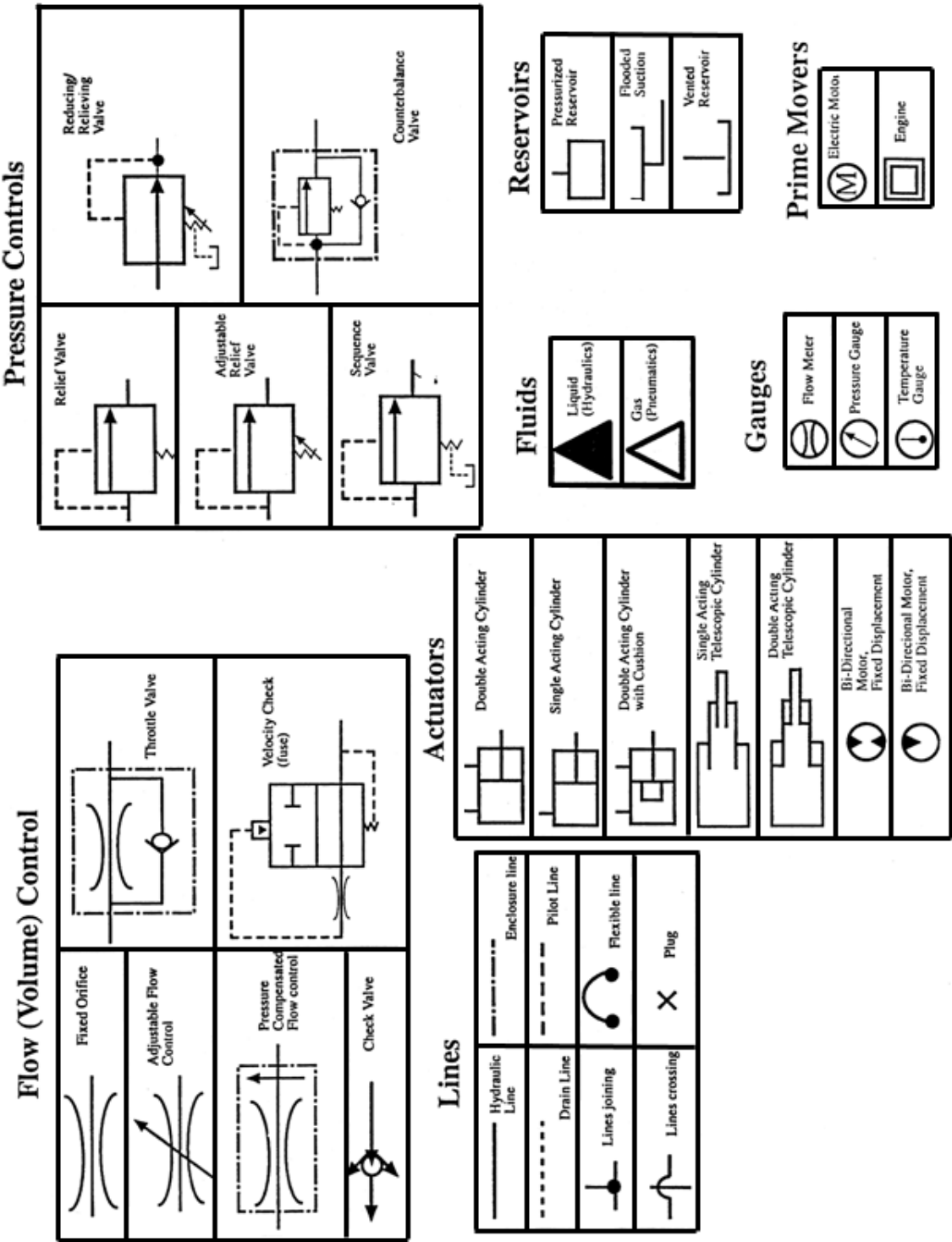
Spool Action Options



Pumps



HYDRAULIC SYMBOLS (CONTINUED)


















# NYC DuraPack® 5000

Body and Tailgate

## ELECTRICAL SYMBOLS

### SYMBOL DEFINITIONS

	<b>BATTERY</b>
	<b>FUSE</b>
	<b>SOLENOID</b>
	<b>CONTACT RELAY</b>
	<b>NORMALLY OPEN CONTACT OF CR1</b>
	<b>NORMALLY CLOSED CONTACT OF CR1</b>
	<b>INDICATOR LIGHT (GREEN)</b>
	<b>PUSH BUTTON SWITCH NORMALLY CLOSED</b>
	<b>PUSH BUTTON SWITCH NORMALLY OPEN</b>
	<b>TOGGLE SWITCH</b>
	<b>DIODE</b>
	<b>PRESSURE SWITCH</b>
	<b>LIMIT SWITCH NORMALLY OPEN</b>
	<b>LIMIT SWITCH NORMALLY CLOSED</b>
	<b>CAPACITOR</b>

### SIDE ACCESS DOOR

#### **DANGER**

Before entering the body area, place the unit in Lock-Out/Tag-Out. See Service Manual Section 8 for Lock-Out/Tag-out Procedure. When the unit is in Lock-Out/Tag-Out the engine will be off, brakes will be set, all wheels will be chocked and the Lock-Out tag will be placed on steering wheel. The body **SHOULD NOT** be entered without the Lock-Out/Tag-Out Procedure being in place.

#### **DANGER**

Keep the access door closed when packer/ejector is in operation and in motion. Failure to do so may result in injury or death.

A hinged side access door is installed on both sides of the body and provides access to the body area for clean-out purposes. Be sure doors are closed and latched properly at all times. See Figure 6 Side Access Door.



**Figure 6 Side Door**

# NYC DuraPack® 5000

## Body and Tailgate

### BODY NOMENCLATURE

The figure below shows the major components and their typical locations on the unit.

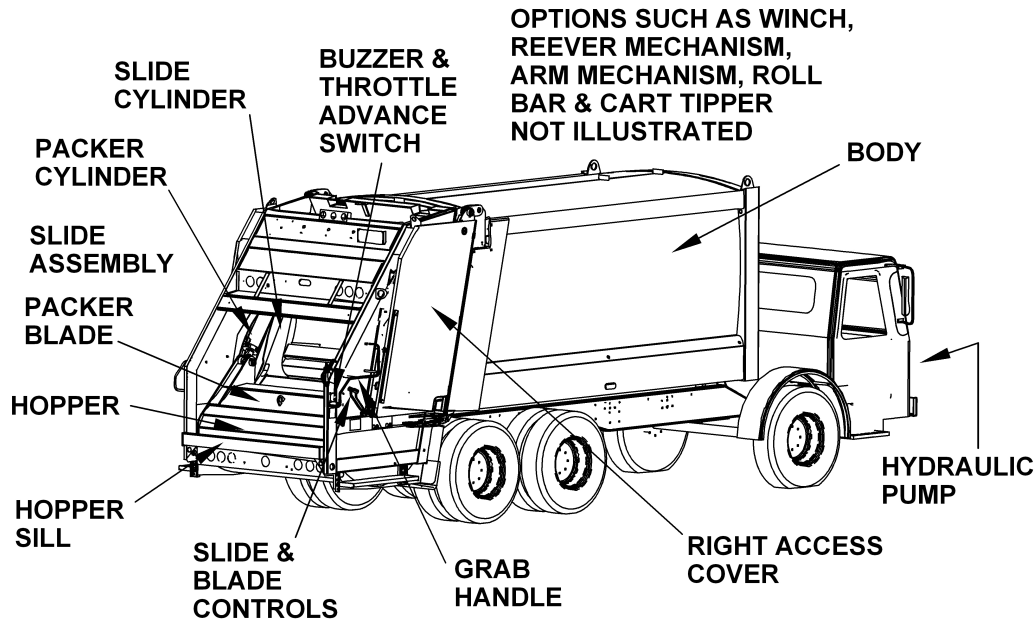


Figure 7

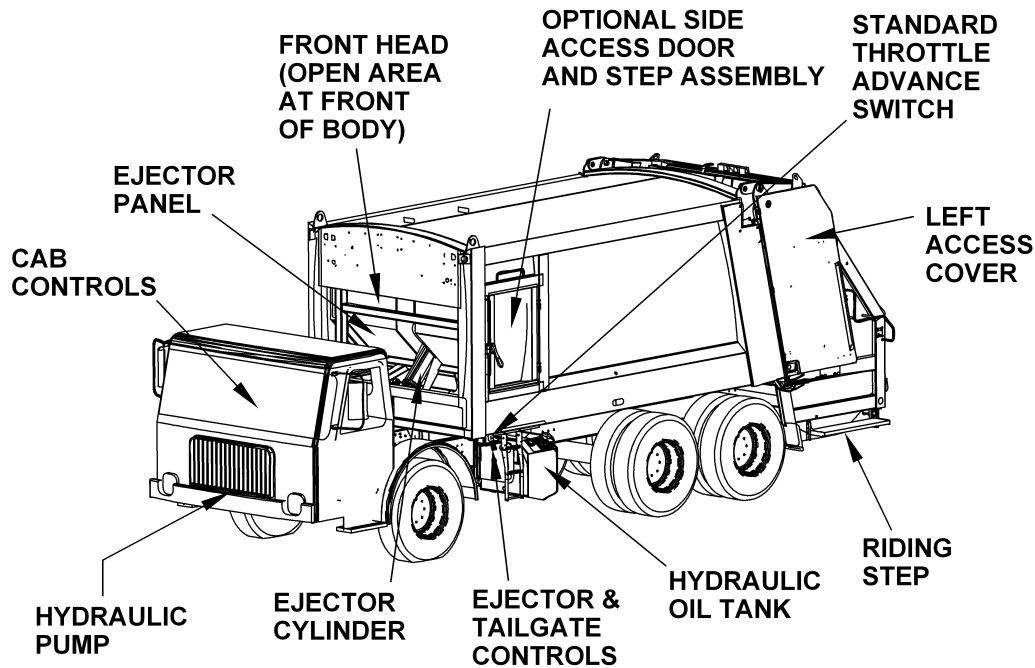


Figure 8

# **MAINTENANCE AND ADJUSTMENT**

# NYC DuraPack® 5000

## Maintenance and Adjustment

### BODY DAILY CHECKLIST

Make sure you perform a daily check of the unit. Refer to the Operator's Manual for the Daily Checklist. Many checks in the Daily Checklist are maintenance related, such as checking tire pressures and hoses for wear and damage.

DAILY CHECKLIST MAINTENANCE ITEMS	
ITEM	REQUIRED ACTION
Low air pressure in tires	Inflate the tire to the correct air pressure given on the tire.
Worn tire	Replace when the wear is greater than allowed by law or before the tread is no longer visible.
Damaged tire	Replace immediately <b>BEFORE</b> going on route.
Hydraulic pump leaks	Determine the cause of the leak and repair immediately.
Damaged hydraulic pump	Repair or replace <b>IMMEDIATELY</b> .
Loose or missing hardware for the hydraulic pump	Tighten loose hardware. Replace missing hardware immediately.
Damaged decal or decal not readable	Replace decal immediately.
Low level of hydraulic oil	Fill the hydraulic oil tank immediately.
Worn or damaged hoses	Replace immediately.
Leaks at cylinders, hoses or fittings	Tighten loose connection.
Loose or missing hardware	Tighten loose connections. Replace missing hardware.
Worn fiber guards	Replace hoses/fittings as necessary. Install new fiber guard on new hoses.
Worn or damaged tailgate lock components	Replace worn or damaged components.
Loose or missing tailgate lock hardware	Tighten loose hardware. Replace missing hardware.
Damaged tailgate seal	Replace seal.
Body structure has loose or missing hardware	Tighten loose hardware. Replace missing hardware.
Body structure has cracked weld joints	Repair immediately.
Body mounting brackets have loose hardware, damaged hardware or cracked welds	Tighten loose hardware. Replace missing hardware. Repair cracked welds.
Air regulator	90 PSI, typically located at front of body.



# NYC DuraPack® 5000

## Maintenance and Adjustment

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### BODY PREVENTIVE MAINTENANCE CHART

Preventive maintenance must be performed to ensure the safe and reliable operation of your unit. Use the chart below as a guideline for when essential items should be checked and serviced. Severe use or adverse conditions may require more frequent maintenance.

BODY PREVENTIVE MAINTENANCE CHART						
*HOURS OF OPERATION						
COMPONENT/SYSTEM	8	40	200	1000	2000	CHECK/SERVICE
Hydraulic System	<input checked="" type="checkbox"/>					Check oil level – add if necessary
		<input checked="" type="checkbox"/>				Check cylinders, pump, hoses, tubes, fittings, and adapters for leaks. Check hoses for cracks, crushes, and cover blisters. Repair or replace if necessary with genuine Heil parts. Any replacement hose should be the same size and pressure rating as listed on the original OEM hose.
		<input checked="" type="checkbox"/>				Check Control valve seals for leaks. Repair or replace if necessary.
				<input checked="" type="checkbox"/>		Replace filter after first 30 days of operation, then every 6 months or 1000 hours of operation OR when filter bypass light is ON.
				<input checked="" type="checkbox"/>		Replace tank breather/filter every time you replace filter element.
					<input checked="" type="checkbox"/>	Drain, flush, and refill. Change filter element.
Electrical, Battery Cables	<input checked="" type="checkbox"/>					Check for proper operation.
		<input checked="" type="checkbox"/>				Check battery cables from battery to starter for loose cables, rubbing or damage and abrasions to cables. Replace if necessary.
Operator Controls	<input checked="" type="checkbox"/>					
Front Mount Pump or Power Take-Off (PTO)		<input checked="" type="checkbox"/>				Check seals for leaks and operation. Replace if necessary
		<input checked="" type="checkbox"/>				Check drive line for smooth operation. Replace as necessary.
		<input checked="" type="checkbox"/>				Check set screws for tightness. Tighten as necessary.
		<input checked="" type="checkbox"/>				Make sure keys are in place. Replace if necessary.
			<input checked="" type="checkbox"/>			Remove the pump's 40blt flange about 2 inches from the PTO and apply grease to female pilot of PTO pump flange. Failure to lubricate female pilot of PTO as given may cause damage to the pump shaft.
					<input checked="" type="checkbox"/>	Drain, flush and refill.

# NYC DuraPack® 5000

## Maintenance and Adjustment

BODY PREVENTIVE MAINTENANCE CHART						
*HOURS OF OPERATION						
COMPONENT/SYSTEM	8	40	200	1000	2000	CHECK/SERVICE
						Change filter element.
Grease Fittings		<input checked="" type="checkbox"/>				Lubricate as shown on Body Lube Chart.
Body Undercoating					<input checked="" type="checkbox"/>	Inspect body undercoating and repair as necessary.
* Daily = 8 hrs. Weekly = 40 hrs. Monthly = 200 hrs. 6 Months = 1000 hrs. Yearly = 2000 hrs.						

# NYC DuraPack® 5000

## Maintenance and Adjustment

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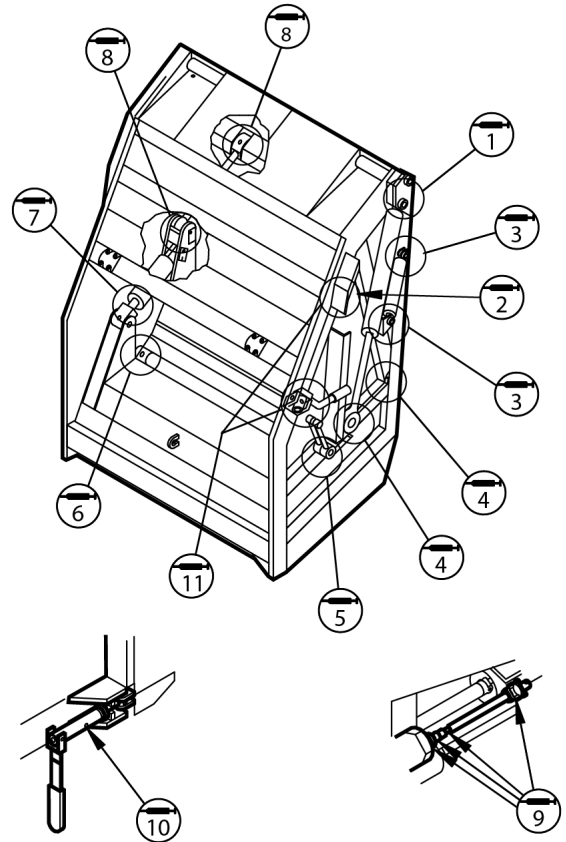
### LUBRICATION GUIDE

#### NYC DuraPack® 5000 25DN Series, 101-211 Lubrication Guide

Note: Clean fittings then pump grease into fittings. Always pump enough grease to flush old grease from fittings. Remove excess grease from fittings.

Note: Lubricate moveable, mechanical parts with non-detergent motor oil every 60 days.

REF. NO.	LOCATION	QTY.	INTERVAL
1	Tailgate Hinge	2	Weekly/40 Hours
2	Outside Packing Cylinder (Both Ends)	4	Weekly/40 Hours
3	Tailgate Raise Cylinder (Both Ends)	4	Weekly/40 Hours
4	Lower Link Pivot (Both Ends)	4	Weekly/40 Hours
5	Control Handles/Linkage:		
	A. Upper Bellcranks	2	Weekly/40 Hours
	B. Kick-Out Lever	1	
	C. Lower Yoke Ass'y	2	
	D. Control Handle Pivots	2	
6	Packer Panel Pivot (Bottle Pin to Upper Panel)	4	Weekly/40 Hours
7	Inside Packing Cylinder (Both Ends)	4	Weekly/40 Hours
8	Upper Link Arms	4	Weekly/40 Hours
9	PTO (Pump) Drive Shaft	4	Weekly/40 Hours
	Front Mount Drive Shaft	3	Weekly/40 Hours
10	Tailgate Turnbuckle Clamps	2	Weekly/40 Hours
11	Container Mech. Control:		
	A. Handle	1	Weekly/40 Hours
	B. Upper Pivot	1	Weekly/40 Hours
12	Ejector Cylinder (Not Shown)	1	Weekly/40 Hours



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# NYC DuraPack® 5000

## Maintenance and Adjustment

### PACK/EJECT CYLINDERS MAINTENANCE

Heil Environmental recommends completing the following tasks to make sure the pack/eject cylinders are working properly and not damaged.

#### **WARNING**

Make sure that the unit is in Lock-Out/Tag-Out mode before you perform maintenance/service procedures, or when you enter or climb on the hopper/body/related assemblies. Equipment is operational when the unit is not in Lock-Out/Tag-Out mode. Equipment operated while you do maintenance or service procedures can cause serious injury or death so also make sure to clear the area around the unit of all bystanders.

#### **DO**

##### **DAILY**

1. Remove all trash, metal, etc. from behind the packer panel.
2. Visually inspect packer tracks and hopper floor for excessive wear or damage. Repair or replace if necessary

##### **WEEKLY**

1. Inspect pack/eject cylinder pins (both ends) for wear or damage. Replace if necessary.
2. Grease all pins.

#### **DO NOT**

1. Damage cylinder rod by striking it with any piece of metal, shovel, etc, when cleaning behind the panel.
2. Leave trash, metal, etc. behind the packer panel to accumulate as damage to cylinder may occur.

#### **WARNING**

Failure to follow these instructions can result in damage to the Heil body, truck chassis or can cause personal injury!

## HYDRAULIC SYSTEM

### **CAUTION**

Contamination is a hydraulic system's worst enemy. DO NOT let dirt enter the system. Use a clean rag and remove dirt or other contamination around any system component before you disconnect or remove it. While you fill the reservoir, filter the oil through a 200 mesh (or finer) screen. NEVER use a cloth to filter the oil.

### **NOTICE**

The oil tank is mounted behind the chassis cab. Fill it to the level indicated on the sight gauge or between the two lines on the oil level decal. DO NOT overfill, overfilling will cause breather element to fail.

#### A. Hydraulic Oil Tank

The hydraulic tank for the system is bolted to the front head of the body. The hydraulic pump is located below the truck chassis.

#### B. Hydraulic Pump

The pump takes oil through a strainer at the bottom of the tank and sends oil to a 2-section valve under the body. A high pressure carryover in the under body valve sends the oil to a control valve on the tailgate. From the tailgate valve, the oil returns through the filter into the tank.

## COLD WEATHER WARM-UP PROCEDURE

When ambient air temperature is cold (below 0 degrees F), it is necessary to warm up the unit's hydraulic oil before you start your daily route operation or to check the oil level. The hydraulic oil is sufficiently warmed when the temperature is between 120° and 160°F.

### **WARNING**

Moving parts on the unit are dangerous. Serious injury or death can occur if a person is struck by the equipment. Clear all people from the area before you operate the unit

Follow the steps below to warm up the hydraulic oil.

1. START the TRUCK and let the engine idle.
2. APPLY the PARKING BRAKE and make sure it holds.
3. ENGAGE the HYDRAULIC PUMP for approximately five minutes.
4. MAKE SURE the AREA IS CLEAR of all unnecessary people BEFORE you operate the controls.
5. OPERATE the PACKER EXTEND and PACKER RETRACT functions through ten (10) cycles while the engine idles. See the Operator's Manual for operation instructions.
6. Make sure the oil temperature on the site gauge is between 120° and 160°F. If not, repeat step 5.
7. Check for fluid leaks. Repair if necessary.
8. The unit is now ready to go on route.

# NYC DuraPack® 5000

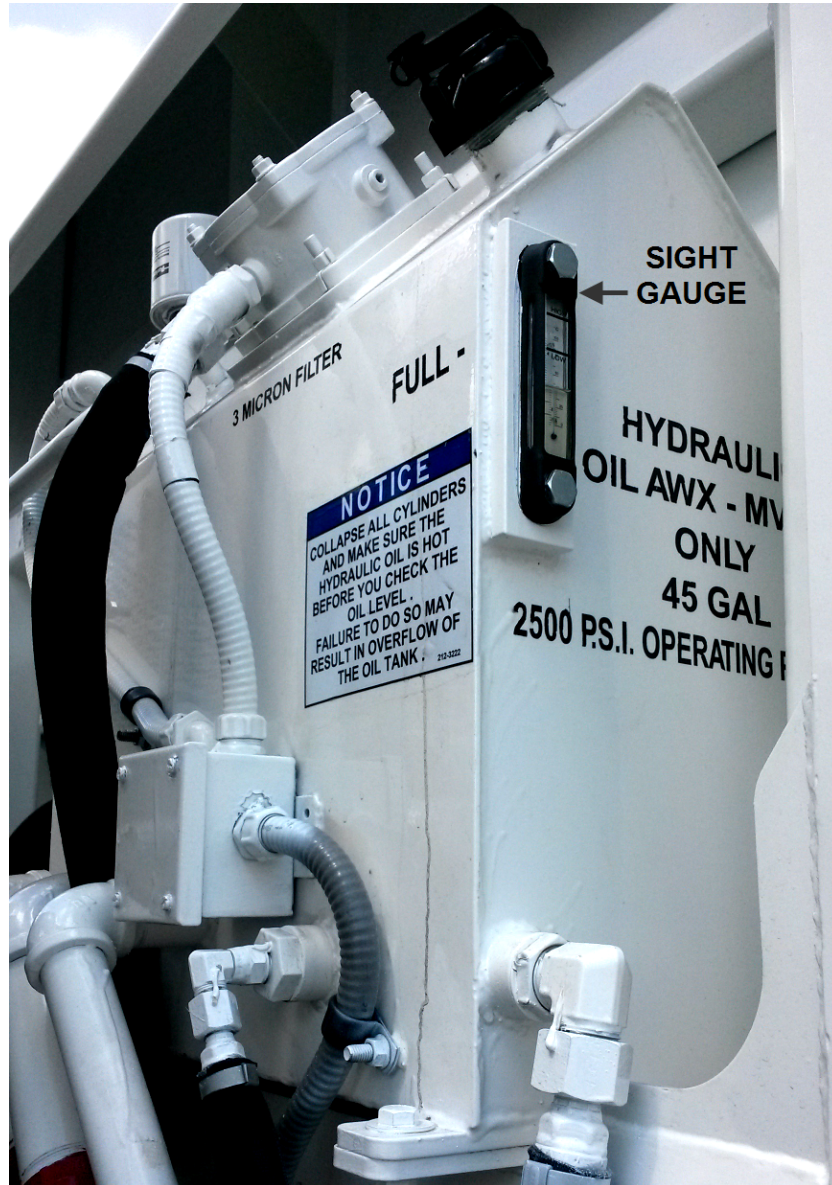
## Maintenance and Adjustment

### PREPARING THE UNIT TO CHECK THE OIL LEVEL

Before checking the oil level or adding oil, make sure the unit is in the following position with all cylinders collapsed:

- Truck – on level ground
- Tailgate and Body – fully down and locked
- Ejector Panel – at the front of the body
- Packer Panel – in the in-transit position with all cylinders retracted

The oil tank is mounted behind the chassis cab. The oil level in the standard tank must be kept between the low and full marks as indicated on the sight gauge. See the figure below.



**Figure 9 Hydraulic Oil Tank Nomenclature**

## **CHECK OIL LEVEL**

Check the hydraulic oil level (after warming up the oil) daily or every eight (8) hours, whichever comes first. Fill as necessary.

Important: Contamination is a hydraulic system's worst enemy. Do not let dirt enter the system. Use a clean rag and remove dirt or other contamination around any system component before you disconnect or remove it. While you fill the reservoir, filter the oil through a 200 mesh (or finer) screen. Never use a cloth to filter the oil.

## **WHEN TO CHANGE OIL FILTER ELEMENT**

Change the filter more often under certain conditions such as an extremely dusty atmosphere or area. Use only Heil replacement filters. Purchase the filter element from your local Heil distributor.

Change the filter element every 1000 hours or every six (6) months or when indicated by the filter monitor light located in the cab.

# NYC DuraPack® 5000

## Maintenance and Adjustment

### CHANGE HYDRAULIC OIL FILTER ELEMENT

To change the hydraulic oil filter, refer to the figure below and follow these steps:

1. Remove nuts and filter cover.
2. Remove the filter element with the by-pass assembly and discard as required.
3. Clean the housing with a clean, lint-free cloth.
4. Check the o-ring and gasket. Replace them if necessary.
5. Lubricate all o-rings and gaskets.
6. Install new element.
7. Reinstall cover with nuts. Torque nuts to 13 ft/lbs.

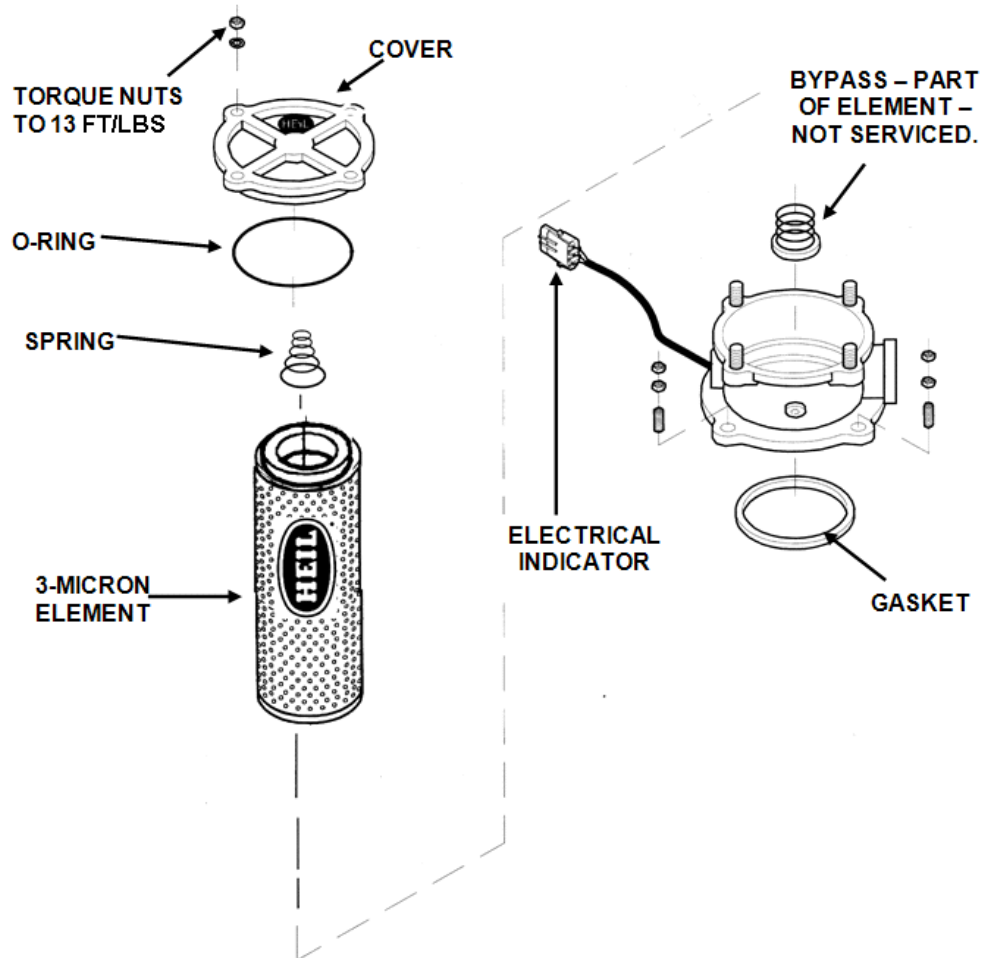


Figure 10. Hydraulic Oil Filter



## **DRAIN AND CLEAN THE HYDRAULIC OIL TANK**

Change the hydraulic oil at least annually or every 2000 hours of operating time, whichever comes first.

Remember that almost all hydraulic system malfunctions can be traced to dirt in the fluid. When working with the hydraulic system, the hands, tools, working area and parts must be as clean as possible.

### **CAUTION**

Wear proper eye protection when you are working on or around hydraulic lines or components. Wear proper eye protection and avoid contact with hydraulic oil if possible. Never check for oil leaks with your hands.

To drain and clean the hydraulic oil tank, follow these steps:

1. Disengage the pump, shut off the engine and remove the ignition key.

### **WARNING**

Make sure the unit is in the Lock-Out/Tag-Out mode when you do maintenance or service procedures, or when you go in the hopper, climb in or on the body or on equipment. Equipment can be operated when the unit is not in the Lock-Out/Tag-Out mode. When the unit is not in the Lock-Out/Tag-Out mode, equipment operated while you do maintenance or service procedures, go in the hopper or climb in or on the body or on equipment can cause serious injury or death.

### **NOTICE**

If your employer or company has Lock-Out/Tag-Out procedures that are different from the following procedures, use your employer's or company's procedures. If your employer or company does not have Lock-Out/Tag-Out procedures, use the procedures that follow.

2. Contact your supervisor if you have any questions about Lock-Out/Tag-Out procedures. If your supervisor has any questions, that person can contact ESG Technical Service. Perform the **Lock Out/Tag Out procedures** <sup>12</sup>.
3. Remove the fill cap from the top of the tank.
4. Remove the drain plug from the bottom of the tank so that the oil drains into a container.
5. While fluid is draining from the tank, remove and replace the filter/breather assembly. Change the assembly every time the in-tank filter is replaced.
6. To drain the entire hydraulic system, disconnect all hoses at the adapter and drain the hoses into a container.
7. Remove and replace the in-tank filter as described in **Change the Hydraulic Oil Filter**.
8. Remove the outlet flange and 100 mesh suction strainer to gain access to the tank inside.
9. Remove sediment from the tank bottom.
10. Install the outlet flange with a new gasket and the 100 mesh suction strainer into the tank.
11. Install the drain plug in the tank bottom.
12. Reconnect and tighten all hose connections that were disconnected.

# NYC DuraPack® 5000

## Maintenance and Adjustment

### DRAIN AND CLEAN THE HYDRAULIC OIL TANK (CONTINUED)

#### NOTICE

Before filling the tank be sure the funnel is clean and 200 mesh (or finer) screen is used to strain the hydraulic oil.

13. Fill tank with recommended oil, checking the sight gauge as you fill. Refer to **Hydraulic Oil Specifications** <sup>14</sup>.
14. Check the entire system to make sure all connections are tight and no leaks are found.
15. Start the truck's engine and engage the pump.

#### WARNING

Moving equipment can be dangerous to bystanders. Serious injury or death can occur if a person is in the wrong area or is not attentive to the operations. Clear the area of all unnecessary people before you operate the controls.

16. Operate the packing panel through 10 cycles to be sure all air is out of the circuits.
17. Operate the automated container lift mechanism.
18. Operate tailgate – full up and full down.
19. Operate body raise (dump units) – full up and full down.
20. With the packing panel in the retracted position and lift in the in-transit position, check tank oil level. If necessary, add recommended as described under **Check Oil Level** <sup>39</sup>.

### PURGE THE HYDRAULIC SYSTEM

If the hydraulic system becomes contaminated because of component failure or some other reason, you must purge the hydraulic system.

To purge the system, follow these steps:

1. Extend the packer/ejector cylinder to lower the oil level in the tank.
2. Remove and replace the in-tank oil filter element in the tank.
3. Engage the packer/ejector control lever and allow the oil to circulate through the new filter, cleaning the oil.

#### NOTICE

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Before filling the tank be sure the funnel is clean and 200 mesh (or finer) screen is used to strain the hydraulic oil.

---

4. Repeat the procedure as necessary until the system is purged.

#### NOTICE

---

If contaminated hydraulic oil reaches the cylinders, the unit may need to be removed from service until the contamination is removed. For more information, contact the Heil Technical Services.

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# NYC DuraPack® 5000

## Maintenance and Adjustment

### LOW OIL/HIGH TEMPERATURE/FILTER BY-PASS INDICATORS

#### **CAUTION**

The pump will shut off if any of the following conditions occur. Unit needs to be taken out of service and repaired immediately. If the unit is not taken out of service it can be damaged permanently.

---

#### A. Low Oil Indicator

Means the hydraulic oil tank is low on oil and oil needs to be added to the tank. The hydraulic pump will shut off.

#### B. High Temperature Indicator

This measures the oil temperature in the tank. If light illuminates, the oil temperature is approximately 200°F and a hydraulic system problem has occurred (dirty oil or low oil level). The pump will shut off.

#### C. Filter By-Pass Indicator

This measures the cleanliness of the oil filter element. Light will illuminate when element is clogged and the hydraulic pump will shut off if filter element is not changed.

### AUXILIARY QUICK DISCONNECT HOOK-UP

If the unit has hydraulic system trouble and is unable to use the hydraulic system, either body can be emptied of refuse by hooking up an auxiliary pump system to the quick disconnect on the unit. The suction line disconnect is located at the back of the oil tank. See the figure below.

#### **CAUTION**

Never connect a disabled unit to another unit as the system is designed for auxiliary pump usage only. Doing this may result in damage to the unit or injury to a person.

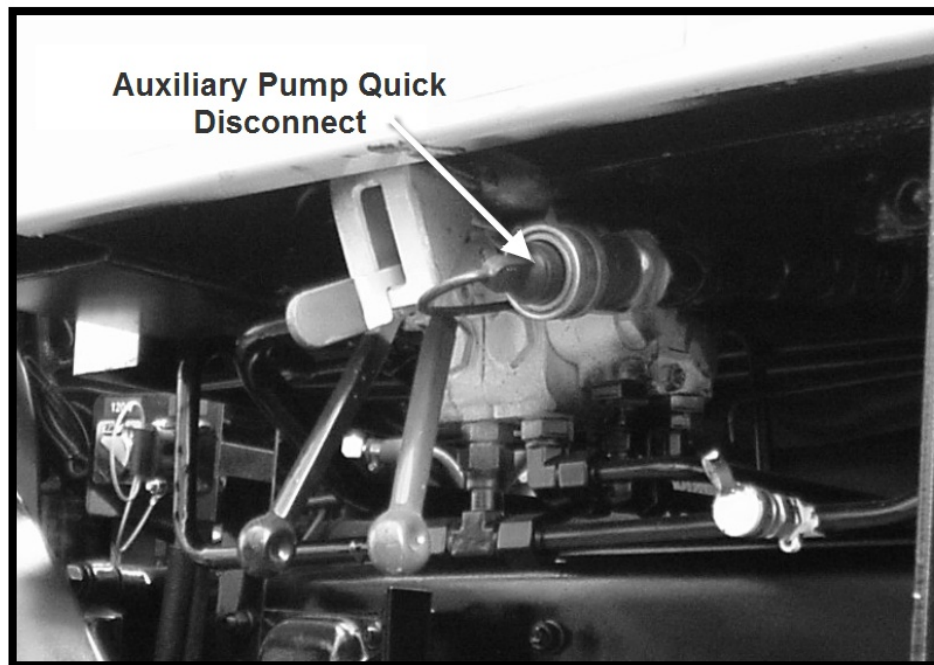


Figure 11. Auxilliary Pump Quick Disconnect

# NYC DuraPack® 5000

## Maintenance and Adjustment

### PRESSURE ADJUSTMENT PROCEDURES

#### **DANGER**

Stand clear when packing mechanism is in motion. Standing close to the unit when it is in motion or operation may result in injury or death.

#### **DANGER**

Do not stand in the hopper or on the hopper sill while adjustments are being made on the packing mechanism with the unit running. Doing this may result in injury or death.

#### **CAUTION**

Always remove dirt and grease from around the main relief valve. Leaving a build up of dirt or grease may result in damage to the valve.

#### **CAUTION**

Be careful not to force the adjusting screw or it may deform the internal adjusting rod and make the valve inoperative.

Install accurate 0-5000 PSI glycerin filled pressure gauge in the gauge port at the underbody valve.

#### A. Before Starting Adjustments

If hydraulic oil temperature is not a minimum of 100 degrees F, warm oil by:

1. Tailgate must be down and locked.
2. Hold throttle advance switch. Unit Throttle advance is used to activate the hydraulic pump. Move ejector panel IN and OUT through 5 cycles.
3. Run tailgate packing mechanism through 10 cycles.
4. Repeat steps (2)–(4) until oil temperature reaches 100 degrees F.

#### B. Order of Adjustment Procedures

1. Tailgate Valve
  - a. Blade Detent
  - b. Slide Detent
2. Underbody Valve – Main Relief

#### C. Tailgate Valve

The packing mechanism is controlled by two levers at both corners of the tailgate. The two levers operate the lower panel (blade) and upper panel. Refer to Operator's Manual for proper operations of controls.

All adjustments must be made with Throttle Advance Engaged:

1. Start engine and engage PTO (or front mount pump). Pump will not engage until Throttle advance is activated.
2. Position the upper panel in fully out position.
3. Turn PTO (or front mount pump) OFF.
4. Turn engine ignition OFF, remove keys and follow the Lock-Out/Tag-Out procedure in Service Manual Section 1.
5. All mechanical linkage must be free of any binding. Blade Spool must move freely in either direction.
6. REMOVE any dirt or grease around the underbody valve main relief.

**PRESSURE ADJUSTMENT PROCEDURES (CONTINUED)**

7. DECREASE the main relief pressure on the underbody valve by:
  - a. Remove dome nut.
  - b. Loosen lock nut.
  - c. Turn adjusting screw out (counter-clockwise) of body valve four times to decrease the pressure setting.
8. Take unit out of Lock-Out/Tag-Out and start engine.
9. Engage the pump and turn throttle switch ON.
10. ENGAGE blade control mechanism to shift spool in either direction.
11. Blade should complete movement and remain engaged (should not detent).
12. If Blade detents:
  - a. Manually shift control mechanism to disengage blade function.
  - b. Adjust Main Relief adjusting screw out (counter-clockwise) 1 additional turn.
  - c. Repeat steps (10) and (11).
13. Slowly turn main relief adjusting screw IN to increase pressure. Watch the pressure gauge to see what the pressure is when the spool kicks out or detents (returns to neutral). The correct kick out pressure is 2400 PSI.
14. If the setting is incorrect, place unit in Lock-Out/Tag-Out.
15. Remove the rubber plug from the end of the blade spool to expose the detent release adjusting screw.
16. Insert a screwdriver and turn adjusting screw in to the spool (clockwise) to increase the kick out pressure or turn adjusting screw out of the spool (counter clockwise) to decrease pressure.
17. Repeat steps 8 thru 12 to check results.

**D. Ejector Unload Valve Adjustments**

The ejector unload valve is located next to the underbody valve. There are two different adjustments to make on this valve. Do the following before you make the adjustments:

1. Start the engine and engage the front mount pump.
2. Extend the outside cylinders fully out.
3. Turn the front mount pump OFF.
4. Turn the ignition OFF and remove the ignition keys.
5. Disconnect the top kick-out on the tailgate control lever by removing the retaining cap screw from the kick out pivot and pull control lever off the pin. See Figure 14 Ejector Unload Valve.
6. Start the engine and engage the front mount pump.
7. Push the upper panel control lever to move the upper panel to a full UP position. Manually shift the lever back to neutral.

# NYC DuraPack® 5000

## Maintenance and Adjustment

### PRESSURE ADJUSTMENT PROCEDURES (CONTINUED)

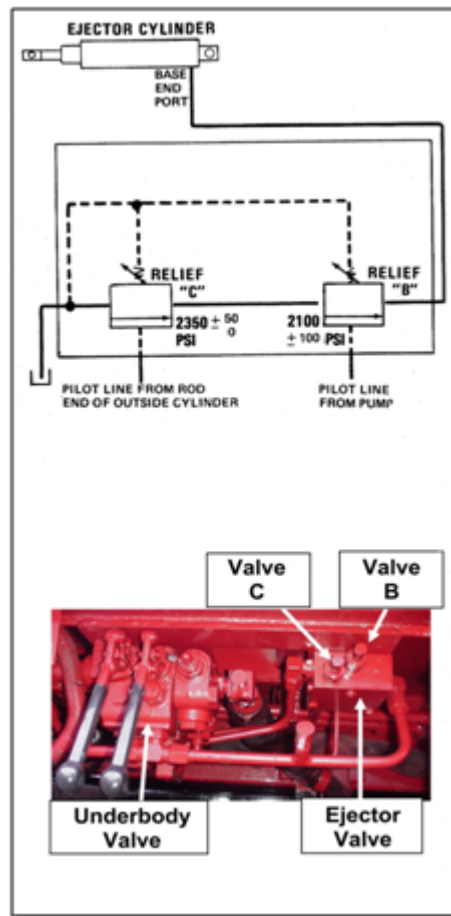


Figure 12 Adjust Valve Relief

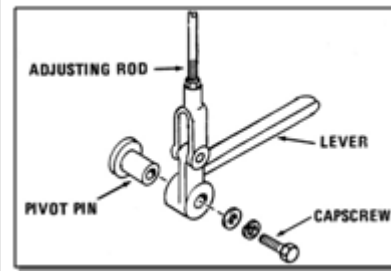


Figure 13 Ejector Control

#### E. Adjust Relief Valve B

1. Lock the tailgate and read the main system pressure gauge. Adjust the main system pressure down until the gauge reads 2100 PSI.
2. Remove plugs covering the relief valve B and relief valve C on the ejector unload valve. See Figure 13 B and C Valves.
3. Turn the slotted adjustment screw or Allen adjustment screw on valve C out of the body two full turns, counterclockwise.
4. Turn the slotted adjustment screw or Allen adjustment screw on valve B into the body two full turns, clockwise.
5. Pull the ejector cylinder control lever to extend the cylinder full out and momentarily bottom cylinder. Release the lever.
6. Pressure is now trapped in the cylinder. Check the pressure gauge in the ejector line. It should read approximately 1800\* PSI.
7. Push the upper panel control lever and leave it in detent position (outside cylinders bottomed in retracted position).
8. Observing both pressure gauges, slowly turn out (counterclockwise) the relief B adjusting screw until relief B reaches 2100 PSI, the ejector line pressure gauge will fall to 0 PSI. Relief B is now set to 2100.



## **PRESSURE ADJUSTMENT PROCEDURES (CONTINUED)**

### **F. Adjust Relief Valve C**

1. Lock the tailgate and read the main system pressure gauge. Adjust the main system pressure until the gauge reads 2300 PSI.
2. Using a screwdriver or wrench, turn slotted adjusting screw of relief C in (clockwise) 2-1/2 turns.
3. Pull the ejector cylinder control lever to extend the cylinder full out and momentarily bottom the cylinder. Release the lever.
4. Pressure is now trapped in the cylinder. Check the pressure gauge in the ejector line. It should read approximately 1800\* PSI.
5. Push the upper panel control lever and leave it in detent position, (outside cylinders bottomed in retracted position).
6. Observing both pressure gauges, slowly turn out (counterclockwise) on relief C adjusting screw until relief C reaches 2350 PSI, the ejector line pressure gauge will fall rapidly to 0 PSI. Relief C is now set at 2350 PSI.
7. Manually Shift the upper panel control lever to neutral.
8. Reinstall plugs or caps covering reliefs B and C.
9. Reconnect the top kick-out, reverse step 5 in relief B adjustment.
10. Follow procedures to readjust the main relief.

### **DANGER**

Do not apply torque beyond this point, as damage to the adjusting screw could occur. If this happens, adjusting screw will not operate properly and remain at maximum pressure even when the setting is lowered.

### **G. Underbody Valve – Main Relief**

Steps to adjust the underbody valve – Main Relief

1. Move tailgate with control panel to lower and hold, while reading the main system pressure gauge.
2. It should read 2900 PSI.
3. Loosen lock nut.
4. Turn adjusting screw out of body (counter clockwise) to decrease the pressure or turn screw in (clockwise) to increase the pressure.
5. Tighten lock nut on Main Relief Valve.
6. Recheck system pressure.
7. Remove pressure gauge.
8. Check for any leaks.

# NYC DuraPack® 5000

## Maintenance and Adjustment

### BLADE BACK-OFF RELIEF VALVE

A relief is provided in the tailgate valve to allow the lower panel to back off slightly (2 to 5 inches of cylinder stroke) during the final stages of packing the load.

If the cylinders back-off excessively (5 to 7 inches of cylinder stroke) the back-off relief needs to be replaced.

### KICK-OUT ADJUSTMENTS

#### A. Upper Kick-Out Adjustment

1. Retract outside cylinders to the full up position.
2. Check the distance from the cylinder packing nut to the center of the cylinder mounting pin. The distance should be  $4\frac{3}{4} + \frac{1}{4}$ ". See Figure 15 Kick-Out Adjustments.
3. If incorrect, loosen jam nuts and turn the adjusting rod clockwise to lengthen or counter clockwise to shorten the rod.

#### B. Lower Kick-Out Adjustment

1. Extend outside cylinders to the full out position.
2. Check the distance from the cylinder packing nut to the center of the cylinder mounting pin. The distance should be  $39\frac{1}{4}$ ". See Figure 15
3. If Incorrect, loosen jam nuts and turn the adjusting rod clockwise to lengthen or counter clockwise to shorten the rod.

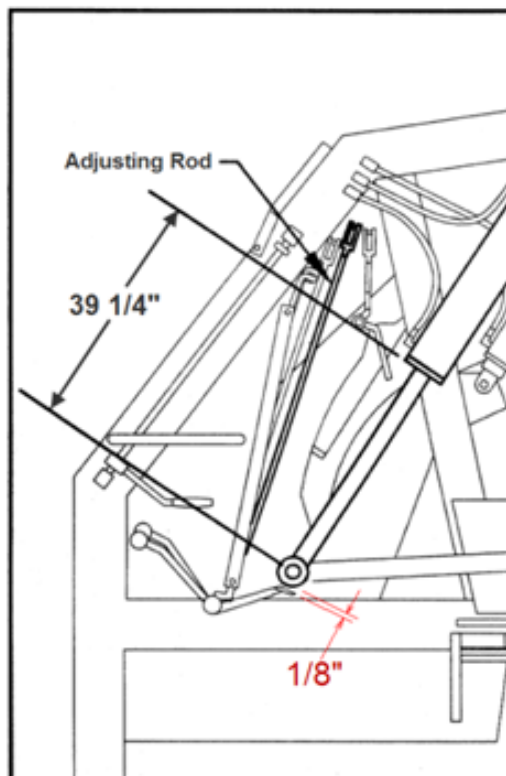


Figure 14 Kick-Out Adjustment

## **SNOW PLOW VALVE ADJUSTMENT**

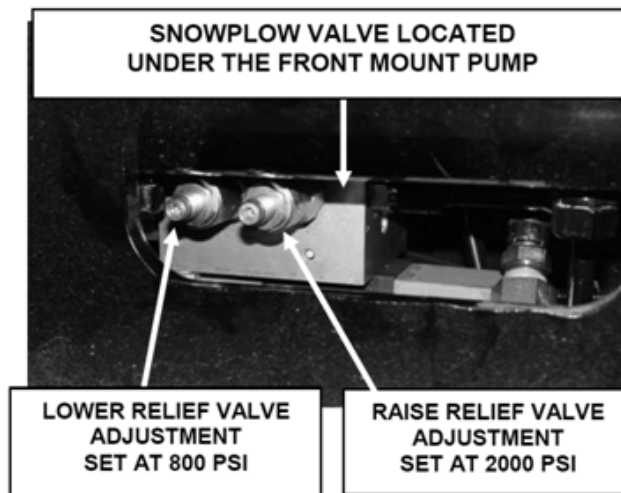
The snow plow has two pressure adjustments and is set at 2000 PSI for raising the snow plow and 800 PSI for lowering the snow plow. See the figure below.

### **A. Before Starting Adjustments**

1. The hydraulic oil must be at or near operating temperature before attempting pressure adjustments.
2. These adjustments require at least two people.
3. Tools required include (1) 3/4" open end wrench and (1) 5/32" allen wrench.
4. TURN the Packer and snow plow switches OFF.
5. SET the chassis parking brake and make sure it is holding.
6. START the engine.

### **B. Adjustment Procedures**

1. INSTALL an accurate 0-5000 PSI glycerine filled pressure gauge into the gauge disconnect on the snow plow.
2. REMOVE the protective caps on the relief valves.
3. TURN on the snow plow switch and place the snow plow Raise/Lower toggle switch to raise position.
4. Using the allen wrench, turn clockwise on the adjusting screw to raise the pressure or turn counter clockwise on the adjusting screw to LOWER the pressure until the pressure reads 2000 PSI +/- 100.
5. Place the Raise/Lower toggle switch to LOWER position.
6. Using the allen wrench, turn clockwise on the adjusting screw to RAISE the pressure or turn counter clockwise on the adjusting screw to lower the pressure until the pressure reads 800 PSI +/-100.
7. TIGHTEN the lock nuts and reposition the protective caps on the relief valves when the correct pressures are attained.
8. REMOVE the pressure gauge and turn the engine off.



**Figure 15. Snow Plow Valve**

# NYC DuraPack® 5000

## Maintenance and Adjustment

### WELDING AND ELECTRONIC DEVICES / ELECTRICAL LUBRICANTS

Before welding on any unit with electronic devices like the Cortex Controller™, electronic control units (ECUs), and proximity switches complete the following procedures.

#### **WARNING**

Never weld on a compressed natural gas vehicle unless the compressed natural gas fuel system has been purged with inert gas. See Service Manual Section 1.

- Disconnect all battery connections.
- Place welding ground as close as possible to the area that is being repaired.
- Disconnect the Cortex Controller and all other electronic control units (ECUs).
- If welding within 24 inches of a proximity switch, remove the switch from the unit.

#### **NOTICE**

Failure to follow these procedures may cause damage to the devices. The damage comes from the inability of the devices to withstand the amperage, open circuit voltage and magnetic flux a welder can produce.

#### **Electrical Anti-Corrosion Lubricant**

It is very important that all Packard connectors are properly lubricated. The following compounds, by brand name, or functional equivalents, are approved for use.

- Truck-Lite Corrosion Preventive Compound
- GB ox-gard, anti-oxidant compound
- Burndy Penetrox A electrical joint compound.

These lubricants may be obtained at an electrical supply store.

### REPAIRING CRACKED WELD JOINTS

Repair all cracked weld joints immediately after finding cracked weld joints. If you are unsure of the proper repair procedure, call Heil Technical Services at 866-310-4345.

## TAILGATE LOCK AND UNLOCK INSPECTIONS

### NOTICE

The operator of the unit should always check the unit to make sure everything is latched and secure before operation. Not doing so may cause damage to the unit or an injury to a person.

Listed are the steps required to ensure the tailgate is locked on the unit. See Figure below for locked position of the indicator arrows.

#### A. Pre-Trip Inspection

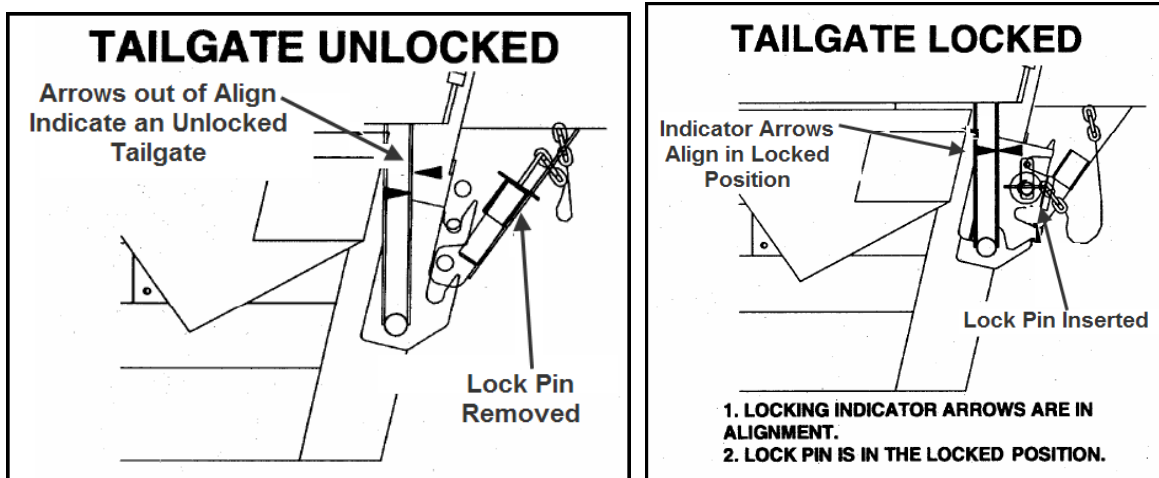
1. RED indicator arrows are aligned on the locking arm and the body anchor.
2. Locking pin is installed in the hole.
3. The RED tailgate operating lever on the underbody control valve is in the center (neutral position).
4. The large indicator light and alarm in the cab are OFF.

#### B. Tailgate Unlock/Raise Procedure

1. Remove the lock pin and store in the keeper provided.
2. Unlock and raise the tailgate by PULLING the red rear handle on the underbody valve. It takes 6 seconds for the tailgate to unlock and begin to rise. See Figure below for unlocked position of the indicator arrows.
3. Continue to PULL and HOLD the handle to raise tailgate completely. This takes approximately 35 seconds.

#### C. Tailgate Lock/Lower Procedure

1. To lower the raised tailgate, PUSH and HOLD the rear red handle on the underbody valve. From the fully raised position it will take approximately 28 seconds to lower the tailgate to position.
2. Continue to PUSH and HOLD the valve handle until the indicator arrows are aligned and the indicator light and alarm (in cab) are off.
3. Remove the locking pin from the keeper and INSTALL the pin into the anchor hole.



# NYC DuraPack® 5000

## Maintenance and Adjustment

### TAILGATE PROPS

#### TAILGATE PROP OPERATION

**IMPORTANT: TAILGATE MUST BE FREE OF REFUSE AND ALL PERSONS CLEAR OF TAILGATE BEFORE PERFORMING THE FOLLOWING STEPS.**



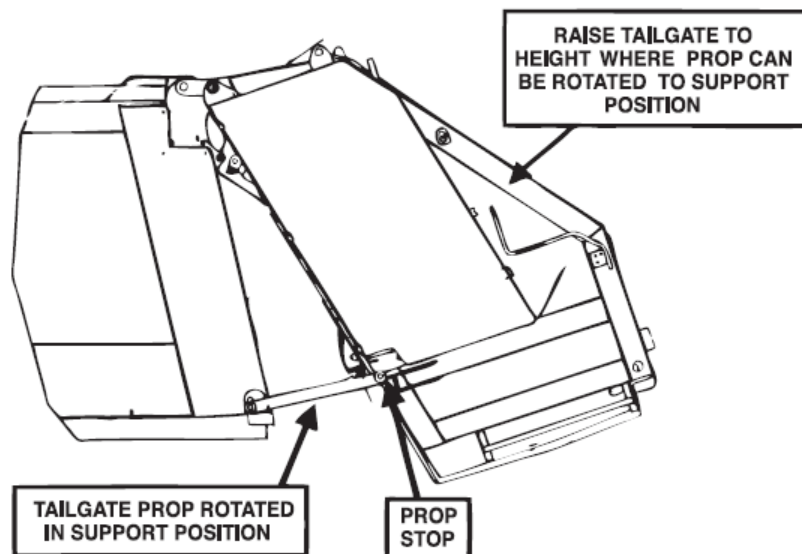
**TWO PROPS ARE INSTALLED ON THE UNIT. BOTH MUST BE USED!**

##### TO USE PROPS

2. Set unit on level surface and apply parking brake.
3. Loosen turnbuckle clamps. (Units with automatic tailgate locks do not use these clamps.)
4. Remove pins holding prop in stored bracket.
5. Raise tailgate to height where props can be rotated to support position.
6. Rotate props.
7. Lower tailgate until props mate with tailgate stop.
8. Turn engine off and remove ignition key.

##### TO STORE PROPS

1. Raise tailgate slightly and rotate prop to stored position and install pin.
2. Lower tailgate completely and tighten turnbuckle clamps.



212-2791

### TAILGATE CONTROL LEVER ALIGNMENT

The tailgate control handles should be in line when in the neutral position. Adjustments can only be made to blade control rod. See the figure below.

If Handle is Out of Align:

1. Loosen jam nuts on blade control adjusting rod.
2. Turn rod clockwise to shorten or counter clockwise to lengthen, to raise or lower control handle.

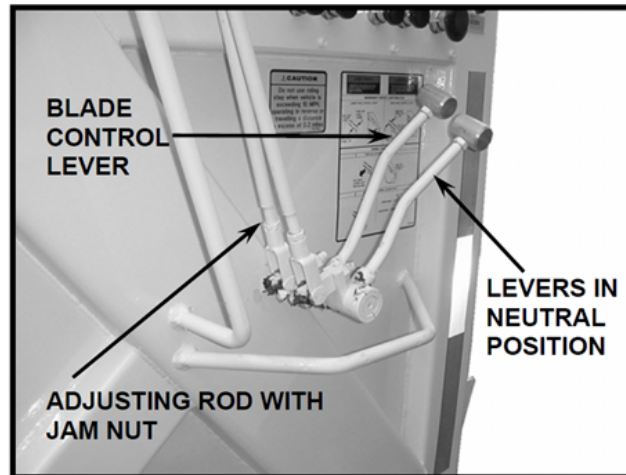


Figure 16 TAILGATE CONTROL LEVER

### TAILGATE LUBRICATION

See **Grease Lubrication Recommendation** and **Body Lubrication Guide** in this section.

### CLEAN AND INSPECT THE TAILGATE SEAL

Periodically check the tailgate seal to make sure it mates properly with the body and inspect for possible wear, damage or leaking. Replace the seal as necessary. See the figure below.

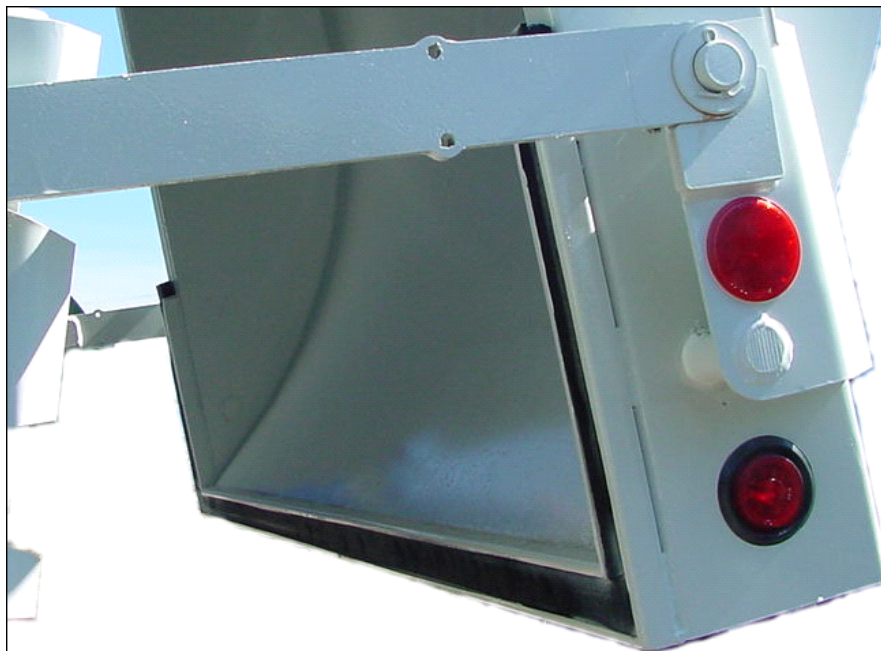


Figure 17. Tailgate Seal

# **NYC DuraPack® 5000**

## **Maintenance and Adjustment**

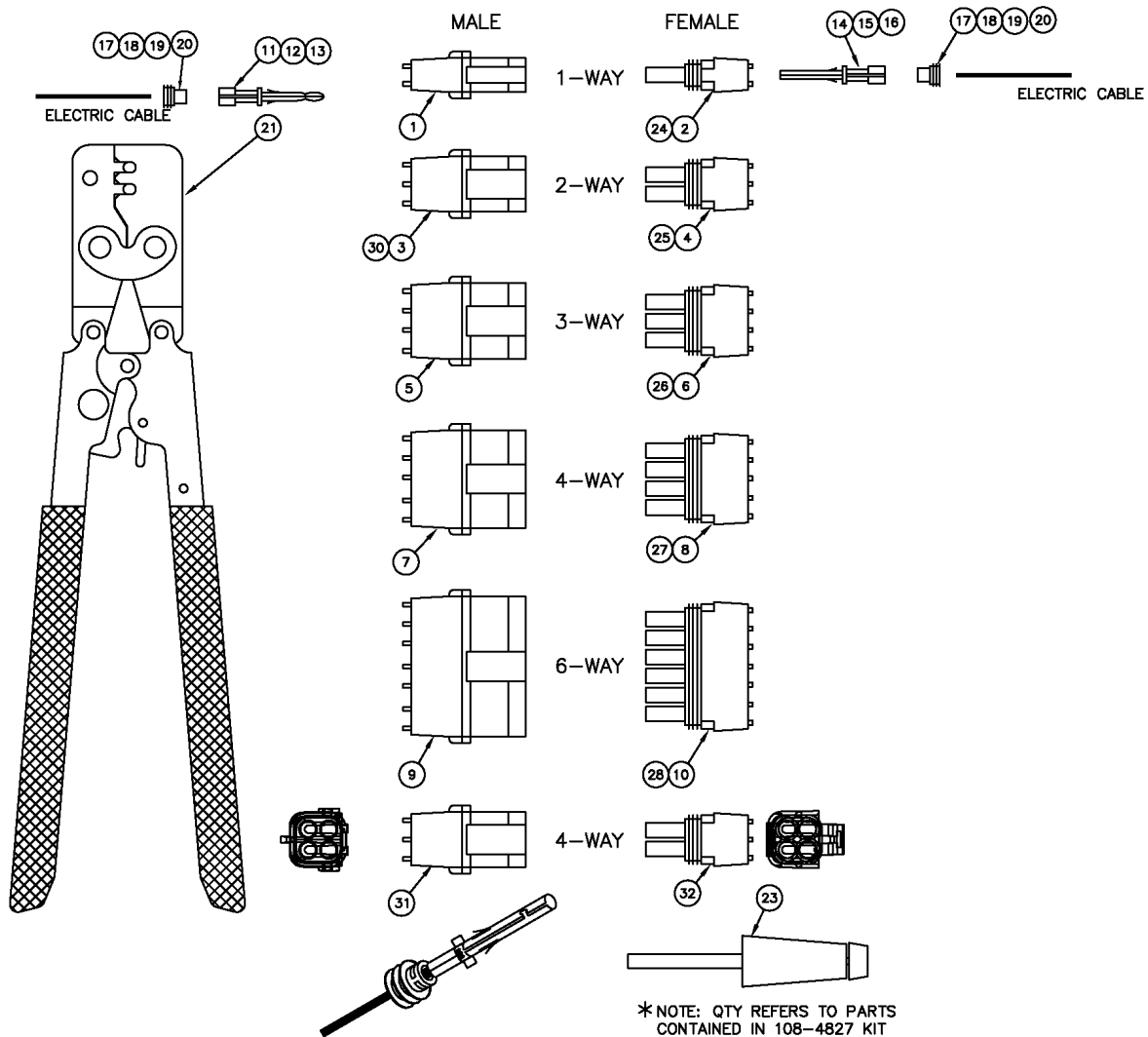


# SCHEMATICS

# NYC DuraPack® 5000

## Schematics

### PACKARD CONNECTION KIT, 108-4827



## Schematics

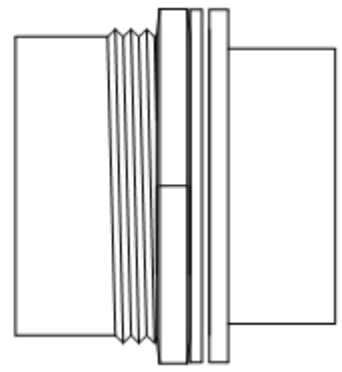
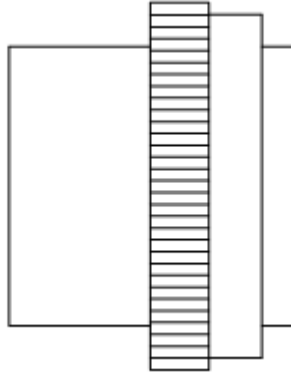
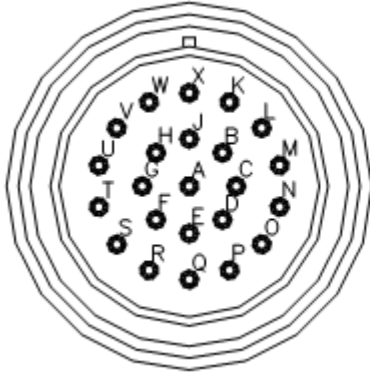
### PACKARD CONNECTION KIT, 108-4827

ITEM	PART NO.	DESCRIPTION	EFF	QTY
-	108-4827	KIT, Packard connection .....	-	REF
1	108-4827-001	CONNECTION, 1-Way Male .....	-	20
2	108-4827-002	CONNECTION, 1-Way Female .....	-	20
3	108-4827-003	CONNECTION, 2-Way Male .....	-	20
4	108-4827-004	CONNECTION, 2-Way Female .....	-	20
5	108-4827-005	CONNECTION, 3-Way Male .....	-	20
6	108-4827-006	CONNECTION, 3-Way Female .....	-	20
7	108-4827-007	CONNECTION, 4-Way Male .....	-	20
8	108-4827-008	CONNECTION, 4-Way Female .....	-	20
9	108-4827-009	CONNECTION, 6-Way Male .....	-	20
10	108-4827-010	CONNECTION, 6-Way Female .....	-	20
11	108-4827-110	TERMINAL, Male (18-20 AWG) .....	-	60
12	108-4827-111	TERMINAL, Male (16-14 AWG) .....	-	200
13	108-4827-112	TERMINAL, Male (10-12 AWG) .....	-	60
14	108-4827-120	TERMINAL, Female (18-20 AWG) .....	-	60
15	108-4827-121	TERMINAL, Female (16-14 AWG) .....	-	200
16	108-4827-122	TERMINAL, Female (10-12 AWG) .....	-	60
17	108-4827-130	SEAL, Cable – (20 GA) .....	-	20
18	108-4827-131	SEAL, Cable – (18 GA) .....	-	100
19	108-4827-132	SEAL, Cable – (16-14 GA) .....	-	400
20	108-4827-133	SEAL, Cable – (12 GA) .....	-	100
21	108-4827-134	PLUG, Cavity .....	-	20
22	108-4828-001	TOOL, Installation .....	-	1
23	108-4828-002	TOOL, Removal .....	-	1
24	108-4827-014	SEAL, 1-Way Female Connection .....	-	A/R
25	108-4827-015	SEAL, 2-Way Female Connection .....	-	A/R
26	108-4827-016	SEAL, 3-Way Female Connection .....	-	A/R
27	108-4827-017	SEAL, 4-Way Female Connection .....	-	A/R
28	108-4827-018	SEAL, 6-Way Female Connection .....	-	A/R
29	108-4827-200	GREASE, Trucklite, NYK .....	-	A/R
30	108-4827-020	CONNECTION, 2-Way Male .....	-	A/R
31	108-4827-211	CONNECTION, 4 Way Male .....	-	A/R
32	108-4827-212	CONNECTION, 4 Way Female .....	-	A/R

# NYC DuraPack® 5000

## Schematics

### CONNECTORS, PLUGS, PINS AND ACCESSORIES FOR DEUTSCH ELECTRICAL PARTS, 108-4815

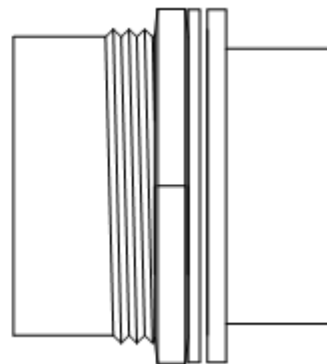
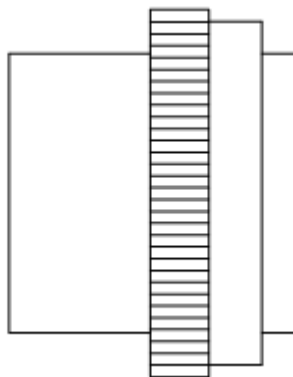
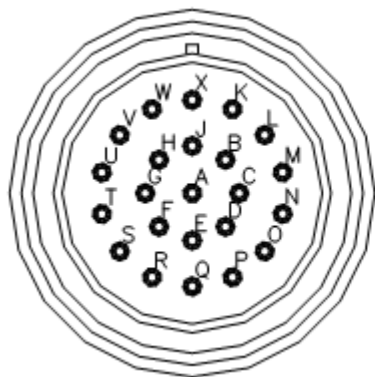


#### PINS AND SOCKETS

108-4815-101	PIN (6 GA)
108-4815-102	SOCKET (6 GA)
108-4815-103	SEALING PLUG (6 GA)
108-4815-104	PIN (8-10 GA)
108-4815-105	SOCKET (8-10 GA)
108-4815-106	SEALING PLUG (8-10 GA)
108-4815-107	PIN (12-14 GA)
108-4815-108	SOCKET (12-14 GA)
108-6461-100	SEALING PLUG (12-14 GA)
108-4815-110	PIN (16-18 GA)
108-4515-111	SOCKET (16-18 GA)
108-6461-100	SEALING PLUG (16-18 GA)
108-4815-112	PIN (20-24 GA)
108-4815-113	SOCKET (20-24 GA)
108-4815-114	SEALING PLUG (20-24 GA)
108-4815-300	SOCKET (10 GA)
108-4815-301	SOCKET (12-14 GA)
108-4815-302	SOCKET (12-16 GA)
108-4815-303	SOCKET (14-18 GA)
108-4815-304	SOCKET (16-22 GA)
108-4815-400	PIN (10 GA)
108-4815-401	PIN (12-14 GA)
108-4815-402	PIN (12-16 GA)
108-4815-403	PIN (14-18 GA)
108-4815-404	PIN (16-22 GA)
108-4815-405	PIN (16-18 GA)
108-4815-407	SOCKET (16-18 GA)

#### GOLD PINS & SOCKETS

108-4815-120	PIN (12-14 GA)
108-4815-121	SOCKET (12-14 GA)
108-4815-124	PIN (14-16 GA)
108-4815-125	SOCKET (14-16 GA)
108-4815-122	PIN (16-18 GA)
108-4815-123	SOCKET (16-18 GA)
108-4815-126	PIN (20-24 GA)
108-4815-127	SOCKET (20-24 GA)

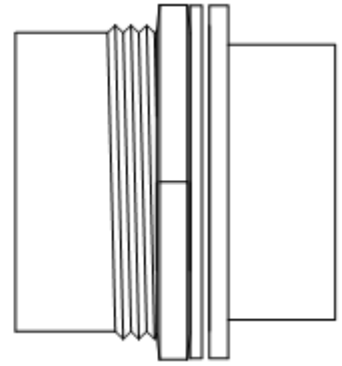
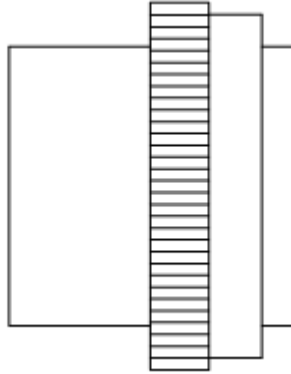
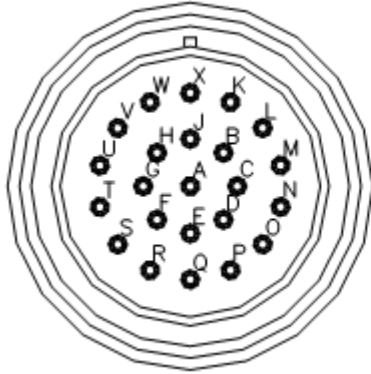


### PLASTIC CONNECTOR SHELLS

108-4815-018	8 (Socket) PLUG (12 GA)
108-4815-020	21-PIN RECEPTACLE
108-4815-021	21-PIN SOCKET
108-4815-022	19-PIN RECEPTACLE
108-4815-023	19-PIN SOCKET
108-4815-024	23-PIN RECEPTACLE
108-4815-025	23-PIN SOCKET
108-4815-030	31 PIN RECEPTACLE
108-4815-031	31 SOCKET PLUG
108-4815-032	16 PIN PLUG
108-4815-033	16 SOCKET RECEPTACLE
108-4815-034	16 PIN RECEPTACLE
108-4815-035	16 SOCKET RECEPTACLE
108-4815-036	16 PIN RECEPTACLE
108-4815-037	29 PIN RECEPTACLE
108-4815-038	9 SOCKET RECEPTACLE
108-4815-068	29 SOCKET PLUG WITH RING ADAPTER
108-4815-069	9 SOCKET PLUG WITH RING ADAPTER
108-4815-070	8 PIN RECEPTACLE (12-16)
108-4815-071	8 PIN PLUG (12-16)
108-4815-420	21 PIN RECEPTACLE
108-4815-430	31 PIN RECEPTACLE
108-4815-424	23 PIN RECEPTACLE
108-4815-425	9 PIN PLUG
108-4815-432	9 PIN RECEPTACLE
108-4815-431	21 PIN PLUG
108-4815-019	14 PIN PLUG
108-4815-200	47 PIN PLUG
108-4815-201	47 PIN RECEPTACLE
108-4815-202	47 PIN RECEPTACLE
108-4815-203	21 PIN PLUG
108-4815-204	24 RECEPTACLE
108-4815-205	24 PLUG
108-4815-206	24 RECEPTACLE
108-4815-207	24 PLUG
108-4815-208	18 RECEPTACLE
108-4815-209	18 PLUG

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## Schematics



### ACCESSORIES

108-4815-150	PANEL NUT, 24 SHELL
108-4815-151	LOCKWASHER, 24 SHELL
108-4815-152	STRAIN RELIEF STRAIGHT 24
108-4815-153	STRAIN RELIEF 90° 24
108-4815-154	PANEL NUT, 18 SHELL
108-4815-155	LOCKWASHER, 18 SHELL
108-4815-156	STRAIN RELIEF STRAIGHT 18
108-4815-157	STRAIN RELIEF 90° 18
108-4815-158	REMOVAL TOOL (6 GA)
108-4815-159	REMOVAL TOOL (8-10 GA)
108-4815-160	REMOVAL TOOL (12-14 GA)
108-4815-161	REMOVAL TOOL (16-18 GA)
108-4815-162	REMOVAL TOOL (20-24 GA)
108-4815-163	CRIMP TOOL (12-24 GA)
108-4815-164	CRIMP TOOL (6-10 GA)
108-4815-165	RECEPTACLE CAP. 18 PIN
108-4815-166	RECEPTACLE CAP, 24 PIN
108-4815-167	PLUG CAP, 18 PIN
108-4815-168	PLUG CAP, 24 PIN
108-4815-169	****
108-4815-170	DT SCREWDRIVER TOOL
108-4815-180	PANEL NUT, 18 SHELL
108-4815-181	LOCKWASHER, 18 SHELL
108-4815-186	BACKSHELL, 90°, 24 SHELL
108-4815-187	BACKSHELL, STRAIGHT, 24
108-4815-188	LG COMPRESSION BACKSHELL
108-4815-189	LG COMPRESSION NUT
108-4815-190	SM COMPRESSION BACKSHELL
108-4815-191	SM COMPRESSIONS NUT
108-4815-192	BACKSHELL, 90°, 18 SHELL
108-4815-193	BACKSHELL, STRAIGHT 18

#### KIT 108-4815 IS COMPRISED OF THE FOLLOWING:

- 108-4815-021
- 108-4815-121
- 108-4815-124
- 108-4815-150
- 108-4815-151

#### KIT 108-4815-027 IS COMPRISED OF THE FOLLOWING:

- 108-4815-021
- 108-4815-121
- 108-4815-125

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## Schematics

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### DEUTSCH CONNECTION KIT, 108-6461-PC

ITEM	PART NO.	DESCRIPTION	EFF	QTY
-	108-6461-PC	KIT, Deutsch Connection .....	-	REF
1	108-6461-003P	PLUG, 3-Way .....	-	15
2	108-6461-003PW	WEDGE, 3-Way Plug .....	-	15
3	108-6461-003PB	BOOT, 3-Way Plug .....	-	15
4	108-6461-003R	RECEPTACLE, 3-Way .....	-	15
5	108-6461-003RW	WEDGE, 3-Way Receptacle .....	-	15
6	108-6461-003RB	BOOT, 3-Way Receptacle .....	-	15
7	108-6461-004P	PLUG, 4-Way .....	-	3
8	108-6461-004PW	WEDGE, 4-Way Plug .....	-	3
9	108-6461-004PB	BOOT, 4-Way Plug .....	-	3
10	108-6461-004R	RECEPTACLE, 4-Way .....	-	3
11	108-6461-004RW	WEDGE, 4-Way Receptacle .....	-	3
12	108-6461-004RB	BOOT, 4-Way Receptacle .....	-	3
13	108-6461-006P	PLUG, 6-Way .....	-	3
14	108-6461-006PW	WEDGE, 6-Way Plug .....	-	3
15	108-6461-006PB	BOOT, 6-Way Plug .....	-	3
16	108-6461-006R	RECEPTACLE, 6-Way .....	-	3
17	108-6461-006RW	WEDGE, 6-Way Receptacle .....	-	3
18	108-6461-006RB	BOOT, 6-Way Receptacle .....	-	3
19	108-6461-008P	PLUG, 8-Way .....	-	9
20	108-6461-008PW	WEDGE, 8-Way Plug .....	-	9
21	108-6461-008PB	BOOT, 8-Way Plug .....	-	9
22	108-6461-008R	RECEPTACLE, 8-Way .....	-	9
23	108-6461-008RW	WEDGE, 8-Way Receptacle .....	-	9
24	108-6461-008RB	BOOT, 8-Way Receptacle .....	-	9
25	108-6461-012P	PLUG, 12-Way .....	-	3
26	108-6461-CPW	WEDGE, 12-Way Plug .....	-	3
27	108-6461-CPB	BOOT, 12-Way Boot .....	-	3
28	108-6461-012R	RECEPTACLE, 12-Way .....	-	3
29	108-6461-CRW	WEDGE, 12-Way Receptacle .....	-	3
30	108-6461-CRB	BOOT, 12-Way Receptacle .....	-	3
31	108-6461-100	PLUG, Sealing .....	-	25
32	108-6461-101	PIN, Gold Plated .....	-	200
33	108-6461-102	SOCKET, Gold Plated .....	-	200
34	108-6461-200	CRIMPER, Production .....	-	1
35	108-6461-201	CRIMPER, Field Kit .....	-	1
36	108-6461-202	REMOVAL TOOL .....	-	1

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## Schematics

### DEUTSCH DT SERIES CONNECTOR KITS, 108-8411

ITEM	PART NO.	DESCRIPTION	EFF	QTY
-	108-8411	KITS, Deutsch Connector, DT Series .....	-	REF
1	108-8411-001	KIT, Deutsch Connector, DT Series .....	-	REF
-	108-8411-02R	RECEPTACLE, 2-Way .....	-	1
-	108-4815-401	PIN, Gold 12 AWG .....	-	2
-	108-8411-2RW	RECEPTACLE, 2-Way Wedge .....	-	1
-	108-6461-100	PLUG, Sealing .....	-	2
-	108-8411-2RB	BOOT, Receptacle .....	-	1
2	108-8411-002	KIT, Deutsch Connector, DT Series .....	-	REF
-	108-8411-02P	PLUG, 2-Way .....	-	1
-	108-4815-301	PIN, Gold 12 AWG .....	-	2
-	108-8411-2PW	PLUG, 2-Way Wedge .....	-	1
-	108-6461-100	PLUG, Sealing .....	-	2
-	108-8411-2RB	BOOT, Plug .....	-	1
3	108-8411-003	KIT, Deutsch Connector, DT Series .....	-	REF
-	108-8411-04R	RECEPTACLE, 4-Way .....	-	1
-	108-4815-401	PIN, Gold 12 AWG .....	-	4
-	108-8411-4RW	RECEPTACLE, 4-Way Wedge .....	-	1
-	108-6461-100	PLUG, Sealing .....	-	2
-	108-8411-4RB	BOOT, Receptacle .....	-	1
4	108-8411-004	KIT, Deutsch Connector, DT Series .....	-	REF
-	108-8411-04P	PLUG, 4-Way .....	-	1
-	108-4815-301	PIN, Gold 12 AWG .....	-	4
-	108-8411-4PW	PLUG, 4-Way Wedge .....	-	1
-	108-6461-100	PLUG, Sealing .....	-	2
-	108-8411-4PB	BOOT, Plug .....	-	1
5	108-8411-005	KIT, Deutsch Connector, DT Series .....	-	REF
-	108-8411-22R	RECEPTACLE, 2-Way Mounted .....	-	1
-	108-4815-401	PIN, Gold 12 AWG .....	-	2
-	108-8411-2RW	RECEPTACLE, 2-Way Wedge .....	-	1
-	108-6461-100	PLUG, Sealing .....	-	2
-	108-8411-2RB	BOOT, Receptacle .....	-	1
6	108-8411-006	KIT, Deutsch Connector, DT Series .....	-	REF
-	108-8411-24R	RECEPTACLE, 4-Way Mounted .....	-	1
-	108-4815-401	PIN, Gold 12-AWG .....	-	4
-	108-8411-4RW	RECEPTACLE, 4-Way Wedge .....	-	1
-	108-6461-100	PLUG, Sealing .....	-	2
-	108-8411-4RB	BOOT, Receptacle .....	-	1



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### DEUTSCH DT SERIES CONNECTOR KITS - BOOT, 108-6461

ITEM	PART NO.	DESCRIPTION	EFF	QTY
-	108-6461	KITS, Deutsch Connection, DT Series .....	- .....	REF
1	108-6461-3PB	BOOT, 3-Way Plug .....	- .....	A/R
2	108-6461-3RB	BOOT, 3-Way Receptacle .....	- .....	A/R
3	108-6461-4PB	BOOT, 4-Way Plug .....	- .....	A/R
4	108-6461-4RB	BOOT, 4-Way Receptacle .....	- .....	A/R
5	108-6461-6PB	BOOT, 6-Way Plug .....	- .....	A/R
6	108-6461-6RB	BOOT, 6-Way Receptacle .....	- .....	A/R
7	108-6461-8PB	BOOT, 8-Way Plug .....	- .....	A/R
8	108-6461-8RB	BOOT, 8-Way Receptacle .....	- .....	A/R
9	108-6461-CPB	BOOT, 12-Way Plug .....	- .....	A/R
10	108-6461-CRB	BOOT, 12-Way Receptacle .....	- .....	A/R
11	108-6461-2PB	BOOT, 2-Way Plug .....	- .....	A/R
12	108-6461-2RB	BOOT, 2-Way Receptacle .....	- .....	A/R

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## Schematics

### DEUTSCH DT SERIES CONNECTOR KITS - STRAIGHT, 108-6461

ITEM	PART NO.	DESCRIPTION	EFF	QTY
-	108-6461	KITS, Deutsch Connection, DT Series .....	-	REF
1	108-6461-001	KIT, Deutsch Connector, DT Series, Straight .....	-	REF
-	108-6461-311	PLUG, 3-Way .....	-	1
-	108-6461-319	PLUG, 3-Way Wedge .....	-	1
-	108-4815-303	SOCKET-NICKEL PLATED, STAMPED .....	-	REF
-	108-6461-111	PLUG, Sealing .....	-	REF
2	108-6461-002	KIT, Deutsch Connector, DT Series, Straight .....	-	REF
-	108-6461-301	RECEPTACLE, 3-Way .....	-	1
-	108-6461-309	RECEPTACLE, 3-Way Wedge .....	-	1
-	108-4815-403	SOCKET-NICKEL PLATED, STAMPED .....	-	REF
-	108-6461-111	PLUG, Sealing .....	-	REF
3	108-6461-003	KIT, Deutsch Connector, DT Series, Straight .....	-	REF
-	108-6461-411	PLUG, 4-Way .....	-	1
-	108-6461-419	PLUG, 4-Way Wedge .....	-	1
-	108-4815-303	SOCKET-NICKEL PLATED, STAMPED .....	-	REF
-	108-6461-111	PLUG, Sealing .....	-	REF
4	108-6461-004	KIT, Deutsch Connector, DT Series, Straight .....	-	REF
-	108-6461-401	RECEPTACLE, 4-Way .....	-	1
-	108-6461-409	RECEPTACLE, 4-Way Wedge .....	-	1
-	108-4815-403	SOCKET-NICKEL PLATED, STAMPED .....	-	REF
-	108-6461-111	PLUG, Sealing .....	-	REF
5	108-6461-005	KIT, Deutsch Connector, DT Series, Straight .....	-	REF
-	108-6461-611	PLUG, 6-Way .....	-	1
-	108-6461-619	PLUG, 6-Way Wedge .....	-	1
-	108-4815-403	SOCKET-NICKEL PLATED, STAMPED .....	-	REF
-	108-6461-111	PLUG, Sealing .....	-	REF
6	108-6461-006	KIT, Deutsch Connector, DT Series, Straight .....	-	REF
-	108-6461-601	RECEPTACLE, 6-Way .....	-	1
-	108-6461-609	RECEPTACLE, 6-Way Wedge .....	-	1
-	108-4815-403	SOCKET-NICKEL PLATED, STAMPED .....	-	REF
-	108-6461-111	PLUG, Sealing .....	-	REF
7	108-6461-007	KIT, Deutsch Connector, DT Series, Straight .....	-	REF
-	108-6461-811	PLUG, 8-Way .....	-	1
-	108-6461-819	PLUG, 8-Way Wedge .....	-	1
-	108-4815-303	SOCKET-NICKEL PLATED, STAMPED .....	-	REF
-	108-6461-111	PLUG, Sealing .....	-	REF
-	108-6461-035	PLUG, 8-Way Straight Backshell .....	-	1

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## Schematics

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### DEUTSCH DT SERIES CONNECTOR KITS - STRAIGHT - 108-6461, CONTINUED

ITEM	PART NO.	DESCRIPTION	EFF	QTY
-	108-6461	KITS, Deutsch Connection, DT Series .....	-	REF
8	108-6461-008	KIT, Deutsch Connector, DT Series, Straight .....	-	REF
-	108-6461-801	RECEPTACLE, 8-Way .....	-	1
-	108-6461-809	RECEPTACLE, 8-Way Wedge .....	-	1
-	108-4815-403	SOCKET-NICKEL PLATED, STAMPED .....	-	REF
-	108-6461-111	PLUG, sealing .....	-	REF
-	108-6461-021	RECEPTACLE, 8-Way Straight Backshell .....	-	1
9	108-6461-009	KIT, Deutsch Connector, DT Series, Straight .....	-	REF
-	108-6461-122	PLUG, 12-Way .....	-	1
-	108-6461-130	PLUG, 12-Way Wedge .....	-	1
-	108-4815-303	SOCKET-NICKEL PLATED, STAMPED .....	-	REF
-	108-6461-111	PLUG, Sealing .....	-	REF
-	108-6461-035	PLUG, 12-Way Straight Backshell .....	-	1
10	108-6461-010	KIT, Deutsch Connector, DT Series, Straight .....	-	REF
-	108-6461-121	RECEPTACLE, 12-Way .....	-	1
-	108-6461-129	RECEPTACLE, 12-Way Wedge .....	-	1
-	108-4815-403	SOCKET-NICKEL PLATED, STAMPED .....	-	REF
-	108-6461-111	PLUG, Sealing .....	-	REF
-	108-6461-023	RECEPTACLE, 12-Way Straight Backshell .....	-	1
11	108-6461-011	KIT, Deutsch Connector, DT Series, Straight .....	-	REF
-	108-6461-211	PLUG, 2-Way .....	-	1
-	108-6461-219	PLUG, 2-Way Wedge .....	-	1
-	108-4815-303	SOCKET-NICKEL PLATED, STAMPED .....	-	REF
-	108-6461-111	PLUG, Sealing .....	-	REF
12	108-6461-012	KIT, Deutsch Connector, DT Series, Straight .....	-	REF
-	108-6461-201	RECEPTACLE, 2-Way .....	-	1
-	108-6461-209	RECEPTACLE, 2-Way Wedge .....	-	1
-	108-4815-403	SOCKET-NICKEL PLATED, STAMPED .....	-	REF
-	108-6461-111	PLUG, Sealing .....	-	REF
13	108-7142	KIT, 12-Way Panel Mount Receptacle .....	-	REF

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## Schematics

### DEUTSCH DT SERIES CONNECTOR KITS - 90° - 108-6461, CONTINUED

ITEM	PART NO.	DESCRIPTION	EFF	QTY
-	108-6461	KITS, Deutsch Connection, DT Series .....	-	REF
1	108-6461-041	KIT, Deutsch Connector, DT Series, 90° .....	-	REF
-	108-6461-03P	PLUG, 3-Way .....	-	1
-	108-6461-3PW	PLUG 3-Way Wedge .....	-	1
-	108-4815-303	SOCKET-NICKEL PLATED, STAMPED .....	-	REF
-	108-6461-100	PLUG, Sealing .....	-	REF
-	108-6461-028	PLUG, 3-Way, 90° Backshell .....	-	1
2	108-6461-042	KIT, Deutsch Connector, DT Series, 90° .....	-	REF
-	108-6461-03R	RECEPTACLE, 3-Way .....	-	1
-	108-6461-3RW	RECEPTACLE, 3-Way Wedge .....	-	1
-	108-4815-403	SOCKET-NICKEL PLATED, STAMPED .....	-	REF
-	108-6461-100	PLUG, Sealing .....	-	REF
-	108-6461-016	RECEPTACLE, 3-Way 90° Backshell .....	-	1
3	108-6461-043	KIT, Deutsch Connector, DT Series, 90° .....	-	REF
-	108-6461-04P	PLUG, 4-Way .....	-	1
-	108-6461-4PW	PLUG, 4-Way Wedge .....	-	1
-	108-4815-303	SOCKET-NICKEL PLATED, STAMPED .....	-	REF
-	108-6461-100	PLUG, Sealing .....	-	REF
-	108-6461-030	PLUG, 4-Way 90° Backshell .....	-	1
4	108-6461-044	KIT, Deutsch Connector, DT Series, 90° .....	-	REF
-	108-6461-04R	RECEPTACLE, 4-Way .....	-	1
-	108-6461-4RW	RECEPTACLE, 4-Way Wedge .....	-	REF
-	108-4815-403	SOCKET-NICKEL PLATED, STAMPED .....	-	REF
-	108-6461-100	PLUG, Sealing .....	-	1
-	108-6461-018	RECEPTACLE, 4-Way 90° Backshell .....	-	1
5	108-6461-045	KIT, Deutsch Connector, DT Series, 90° .....	-	REF
-	108-6461-06P	PLUG, 6-Way .....	-	1
-	108-6461-6PW	PLUG, 6-Way Wedge .....	-	1
-	108-4815-303	SOCKET-NICKEL PLATED, STAMPED .....	-	REF
-	108-6461-100	PLUG, Sealing .....	-	REF
-	108-6461-032	PLUG, 6-Way 90° Backshell .....	-	1
6	108-6461-046	KIT, Deutsch Connector, DT Series, 90° .....	-	REF
-	108-6461-06R	RECEPTACLE, 6-Way .....	-	1
-	108-6461-6RW	RECEPTACLE, 6-Way Wedge .....	-	1
-	108-4815-403	SOCKET-NICKEL PLATED, STAMPED .....	-	6
-	108-6461-100	PLUG, Sealing .....	-	1
-	108-6461-020	RECEPTACLE, 6-way 90° Backshell .....	-	1
7	108-6461-047	KIT, Deutsch Connector, DT Series, 90° .....	-	REF
-	108-6461-08P	PLUG, 8-Way .....	-	1
-	108-6461-8PW	PLUG, 8-Way Wedge .....	-	1
-	108-4815-303	SOCKET-NICKEL PLATED, STAMPED .....	-	REF
-	108-6461-100	PLUG, Sealing .....	-	REF
-	108-6461-034	PLUG, 8-Way 90° Backshell .....	-	1

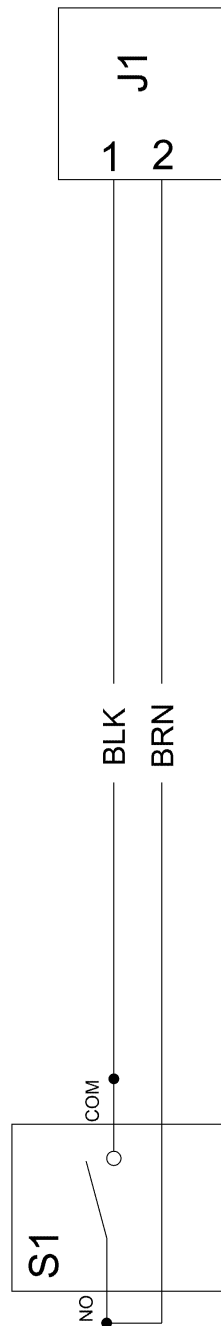
### DEUTSCH DT SERIES CONNECTOR KITS - 90° - 108-6461, CONTINUED

ITEM	PART NO.	DESCRIPTION	EFF	QTY
-	108-6461	KITS, Deutsch Connection, DT Series .....	-	REF
8	108-6461-048	KIT, Deutsch Connector, DT Series, 90° .....	-	REF
-	108-6461-08R	RECEPTACLE, 8-Way .....	-	1
-	108-6461-8RW	RECEPTACLE, 8-Way Wedge .....	-	1
-	108-4815-403	SOCKET-NICKEL PLATED, STAMPED .....	-	REF
-	108-6461-100	PLUG, Sealing .....	-	REF
-	108-6461-022	RECEPTACLE, 8-Way 90° Backshell .....	-	1
9	108-6461-049	KIT, Deutsch Connector, DT Series, 90° .....	-	REF
-	108-6461-12P	PLUG, 12-Way .....	-	1
-	108-6461-CPW	PLUG, 12-Way Wedge .....	-	1
-	108-4815-303	SOCKET-NICKEL PLATED, STAMPED .....	-	REF
-	108-6461-100	PLUG, Sealing .....	-	REF
-	108-6461-036	PLUG, 12-Way 90° Backshell .....	-	1
10	108-6461-050	KIT, Deutsch Connector, DT Series, 90° .....	-	REF
-	108-6461-12R	RECEPTACLE, 12-Way .....	-	1
-	108-6461-CRW	RECEPTACLE, 12-Way Wedge .....	-	1
-	108-4815-403	SOCKET-NICKEL PLATED, STAMPED .....	-	REF
-	108-6461-100	PLUG, Sealing .....	-	REF
-	108-6461-024	RECEPTACLE, 12-Way 90° Backshell .....	-	1
11	108-6461-051	KIT, Deutsch Connector, DT Series, 90° .....	-	REF
-	108-6461-02P	PLUG, 2-Way .....	-	1
-	108-6461-2PW	PLUG, 2-Way Wedge .....	-	1
-	108-4815-303	SOCKET, Gold Plated .....	-	REF
-	108-6461-100	PLUG, Sealing .....	-	REF
-	108-6461-026	PLUG, 2-Way 90° Backshell .....	-	1
12	108-6461-052	KIT, Deutsch Connector, DT Series, 90° .....	-	REF
-	108-6461-02R	RECEPTACLE, 2-Way .....	-	1
-	108-6461-2RW	RECEPTACLE, 2-Way Wedge .....	-	1
-	108-4815-403	SOCKET-NICKEL PLATED, STAMPED .....	-	REF
-	108-6461-100	PLUG, Sealing .....	-	REF
-	108-6461-014	RECEPTACLE, 2-Way 90° Backshell .....	-	1

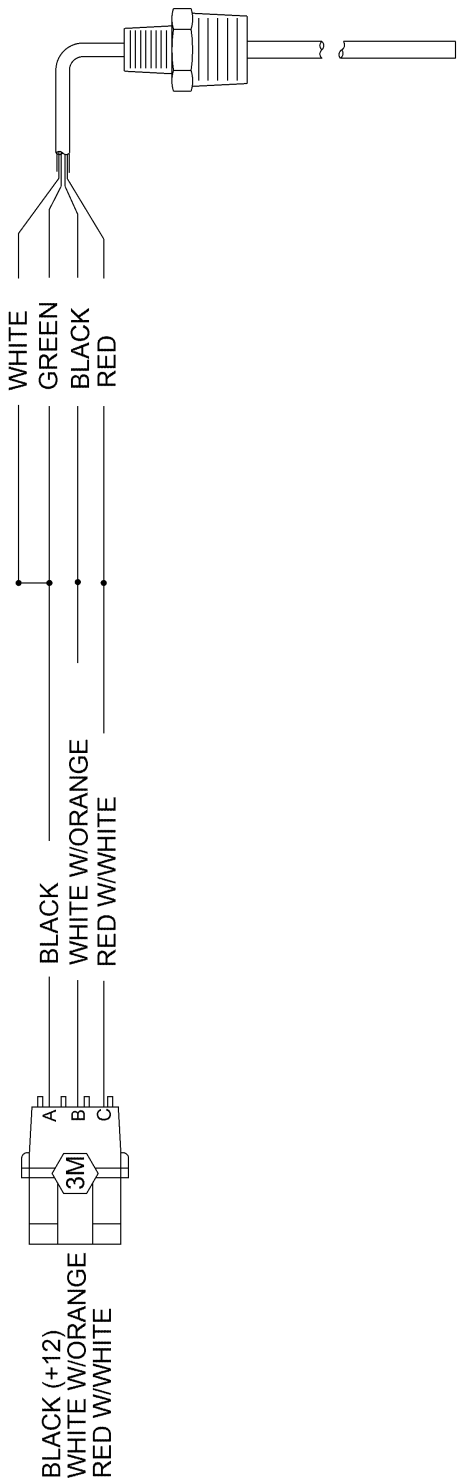
# NYC DuraPack® 5000

## Schematics

### BUZZER SWITCH ASSEMBLY - 108-8571



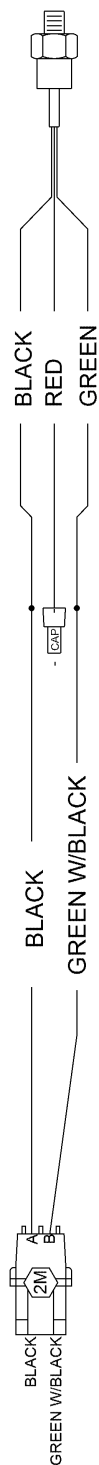
OIL TEMPERATURE HARNESS - 263-0759



# NYC DuraPack® 5000

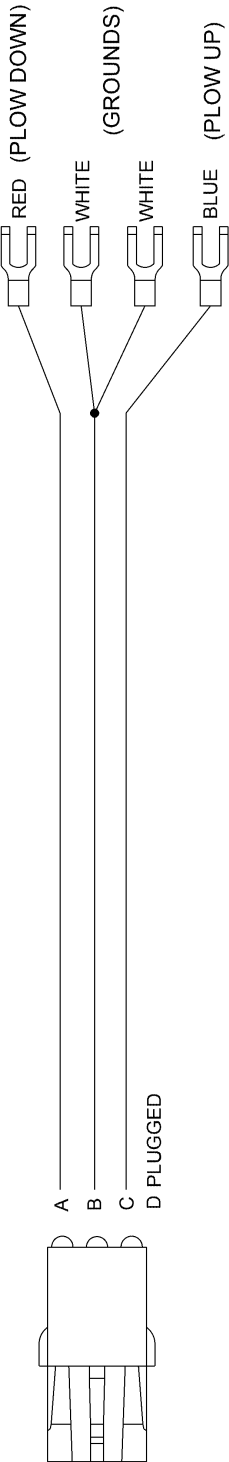
## Schematics

### OIL FILTER MONITOR HARNESS - 263-0760





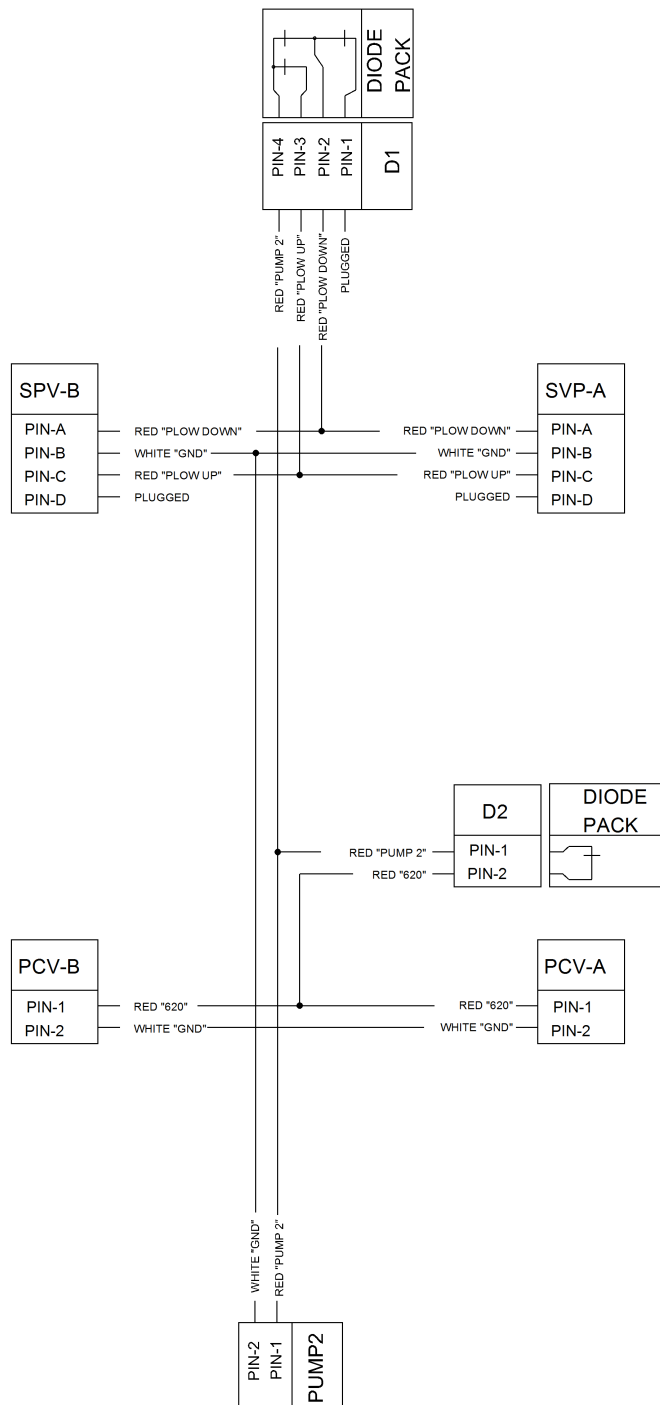
SNOW PLOW VALVE HARNESS - 263-1431



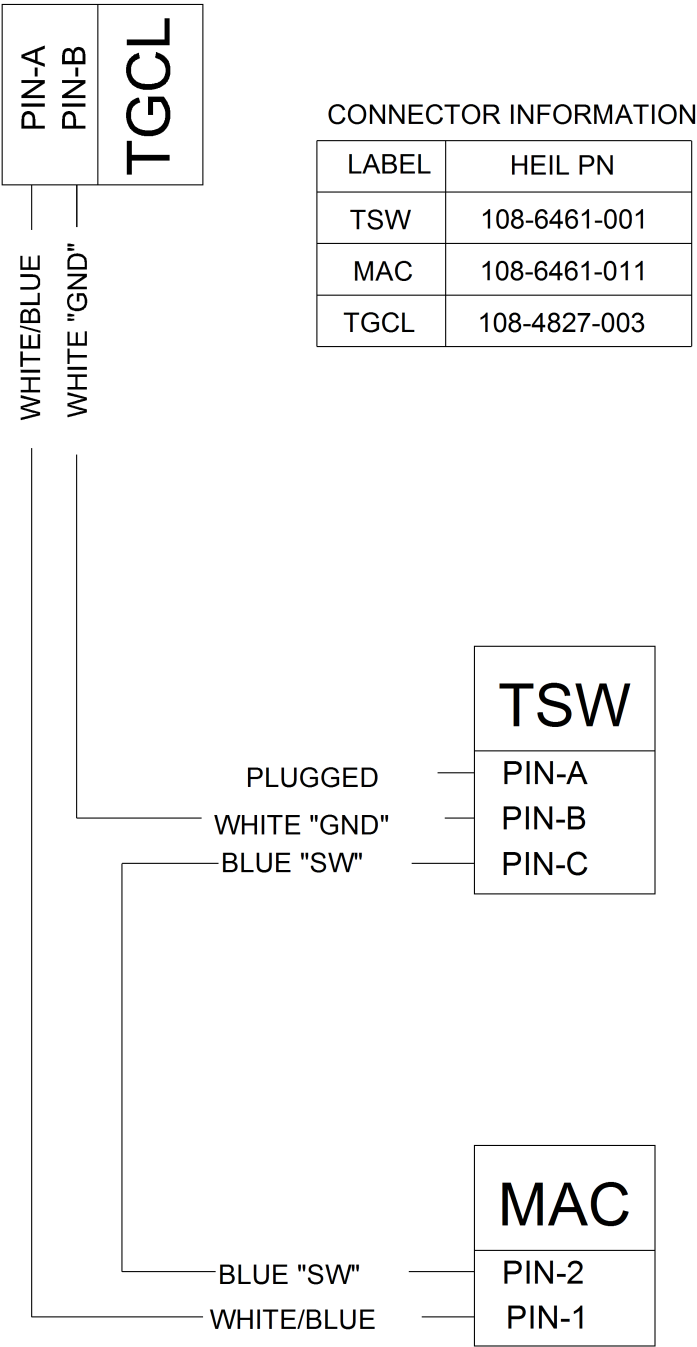
# NYC DuraPack® 5000

## Schematics

### PUMP CONTROL HARNESS – 263-1443-002



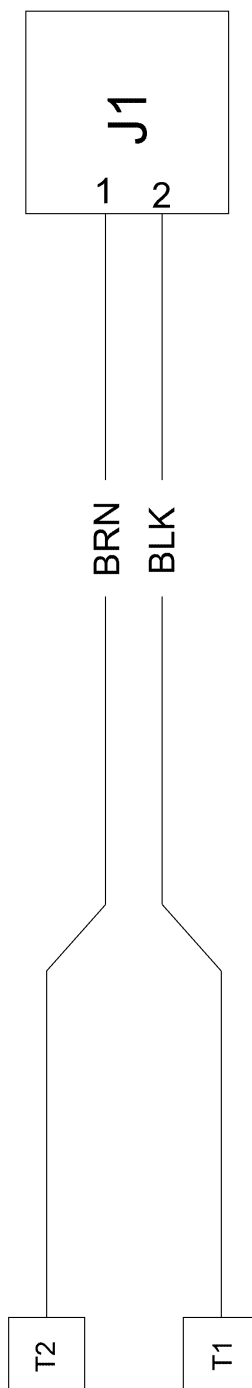
AIR SOLENOID HARNESS – 263-1597-010



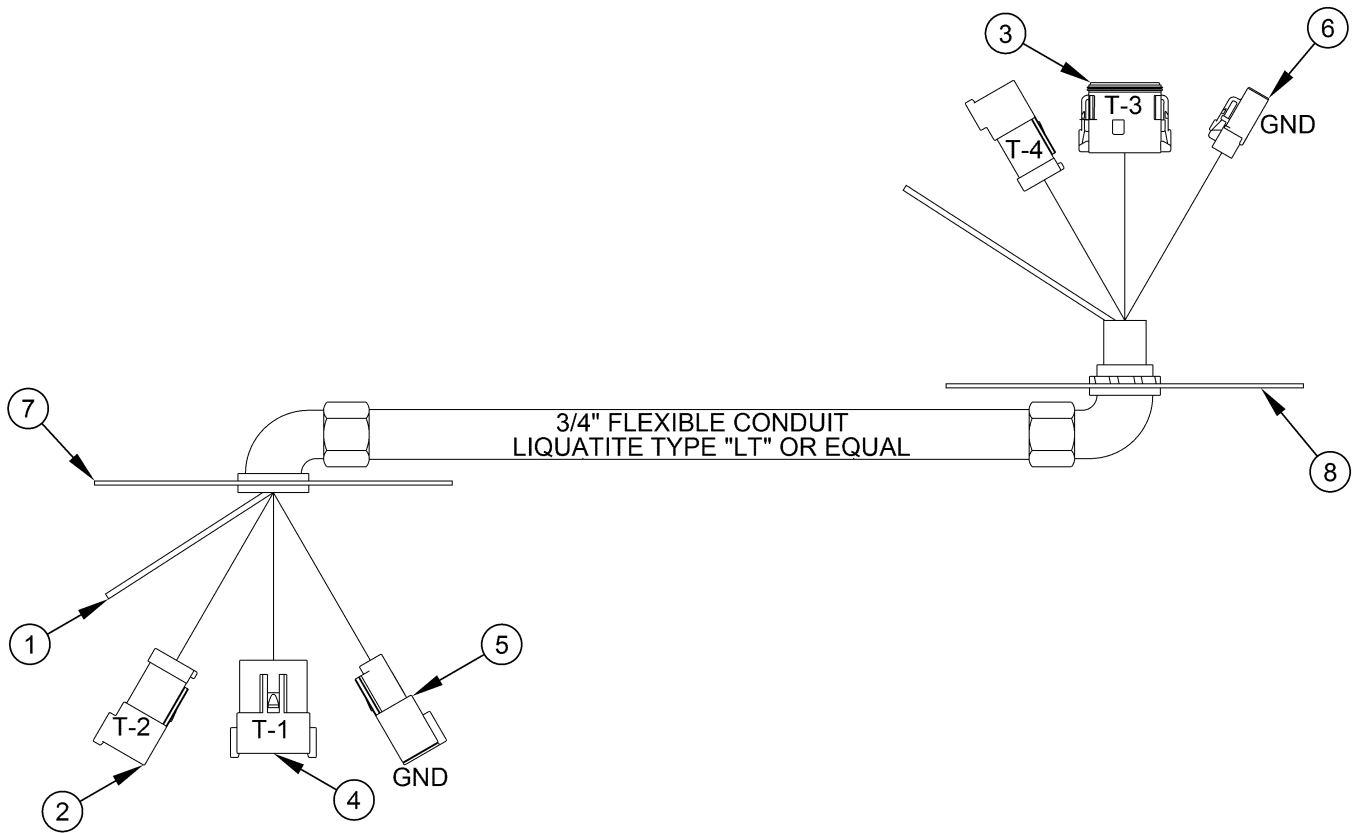
# NYC DuraPack® 5000

## Schematics

### BUZZER SWITCH HARNESS - 263-1626



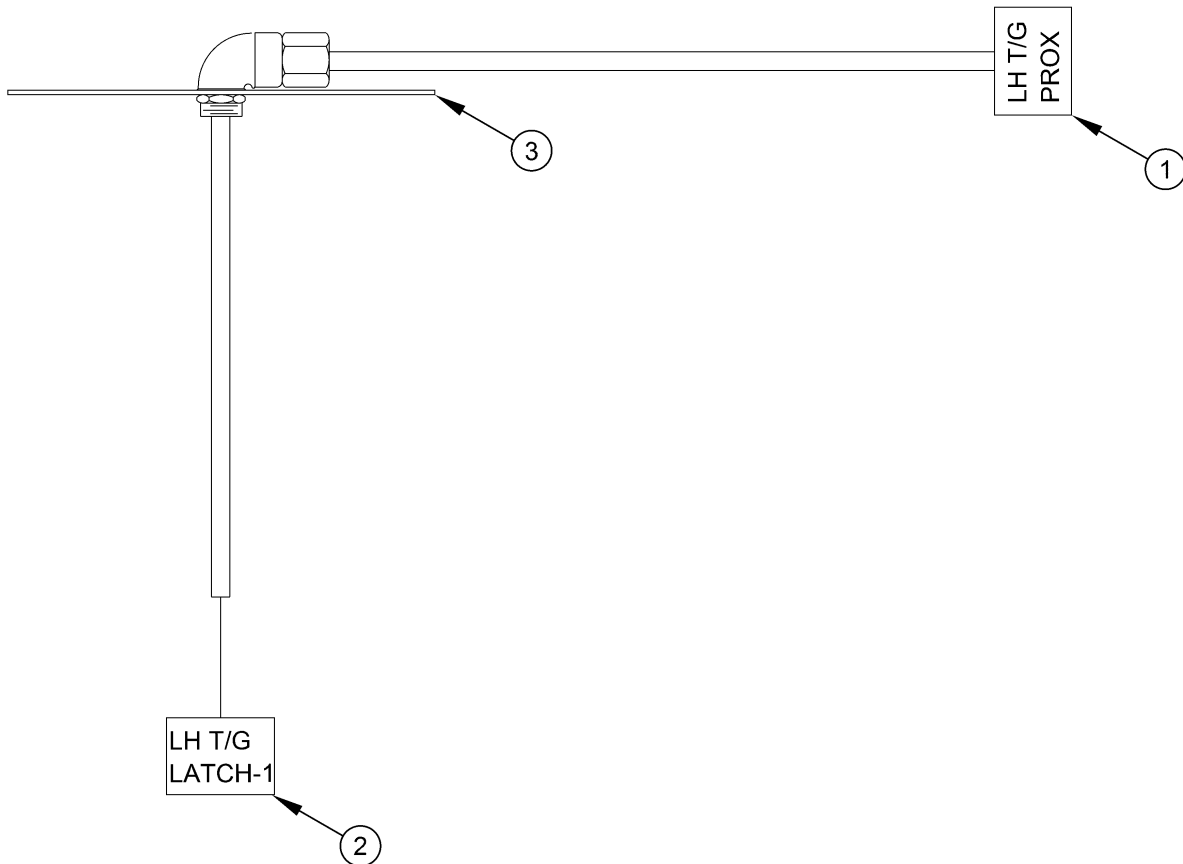
### BODY TO TAILGATE HARNESS – 263-1838-002



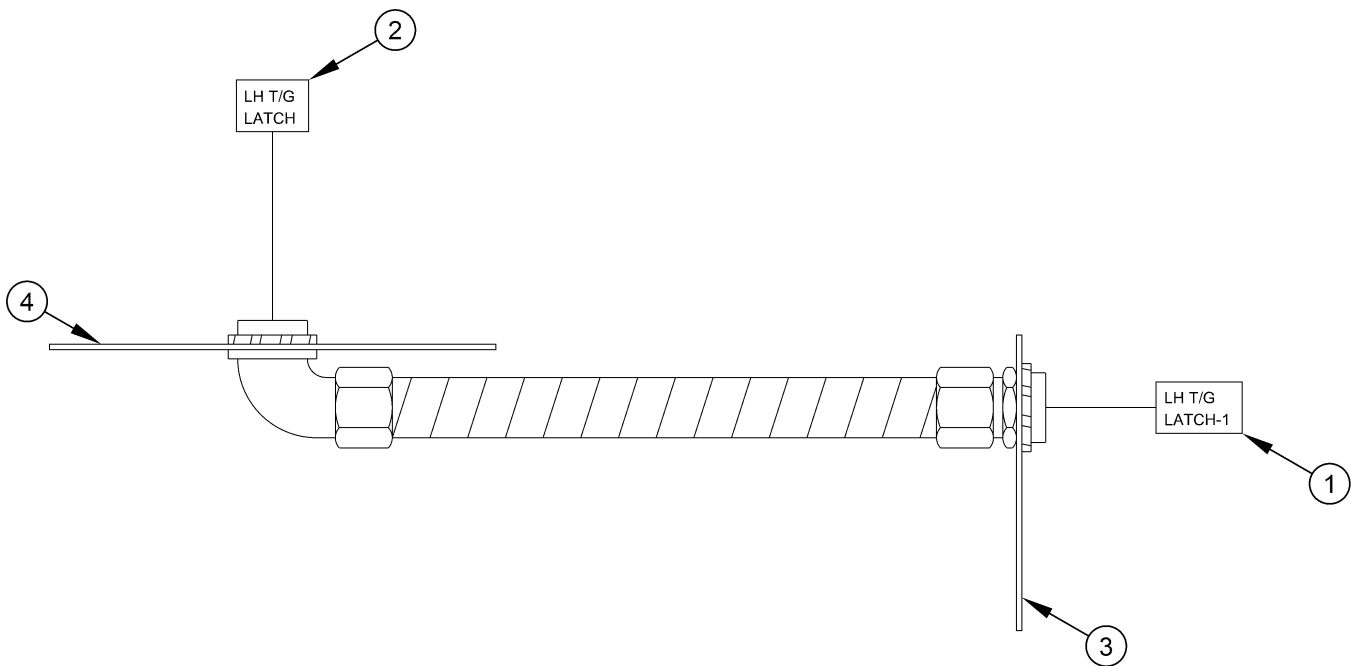
# NYC DuraPack® 5000

## Schematics

### SS TAILGATE PROXIMITY LOCK HARNESS – 263-1838-006



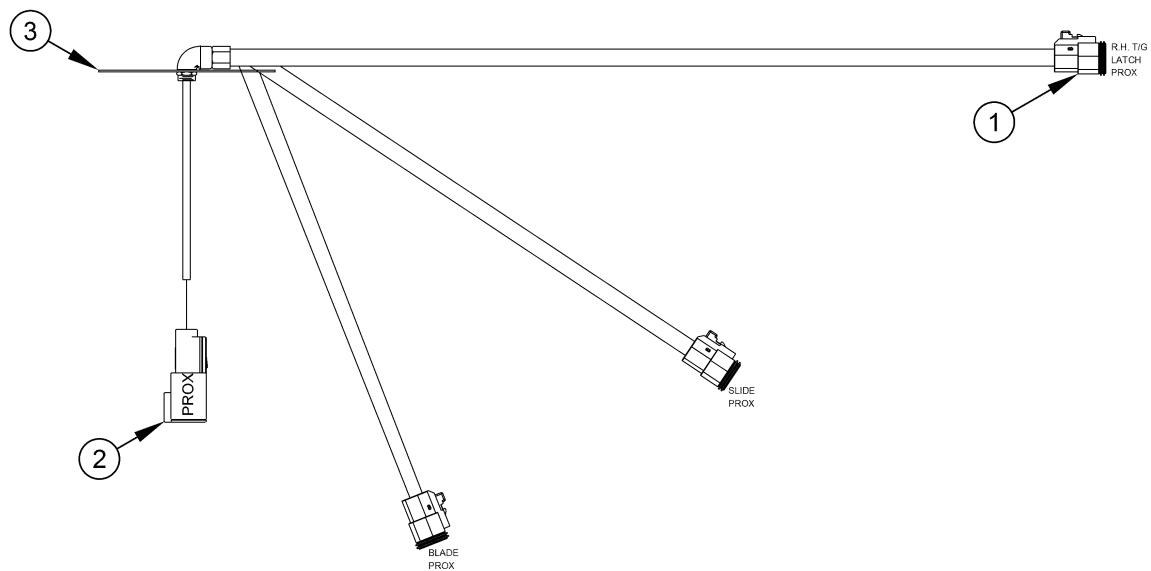
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# NYC DuraPack® 5000

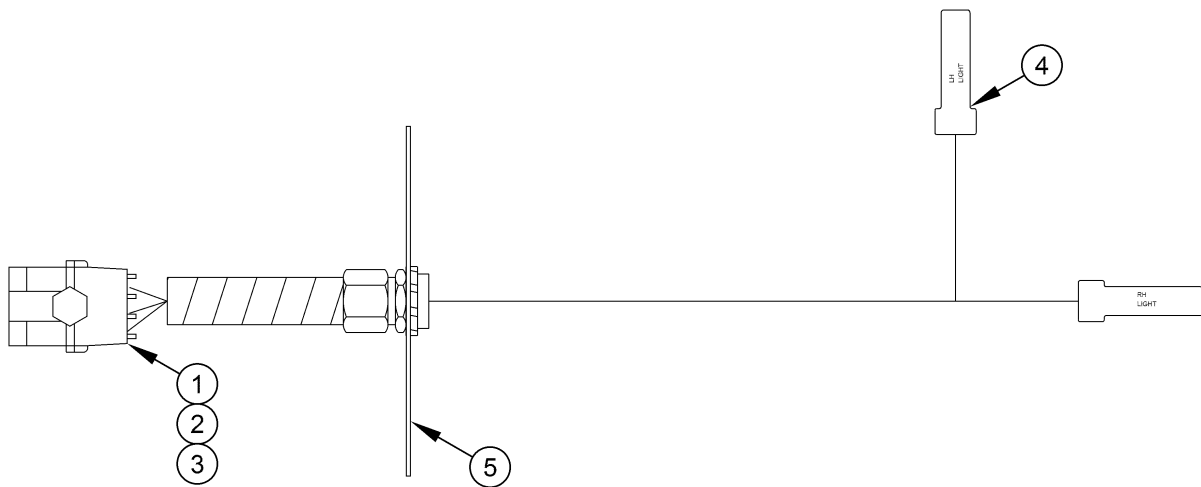
## Schematics

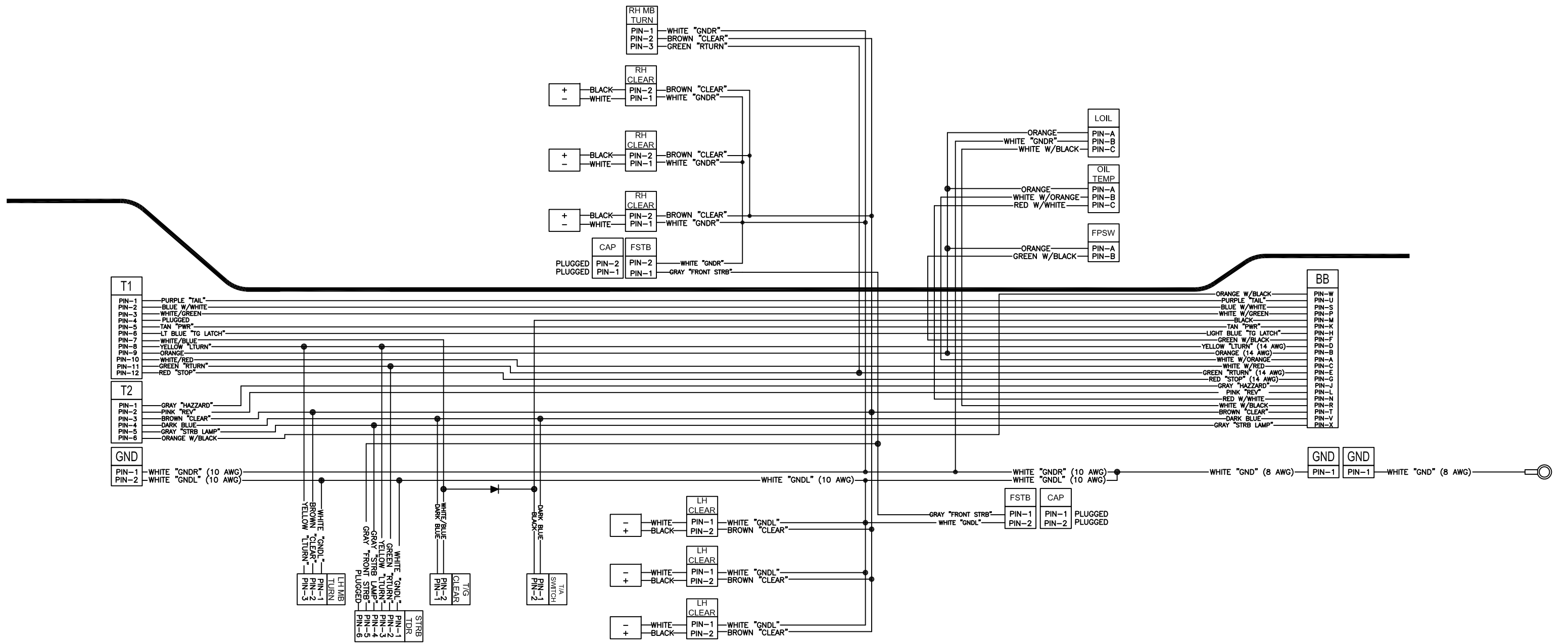
### CS TAILGATE PROXIMITY HARNESS – 263-1838-008



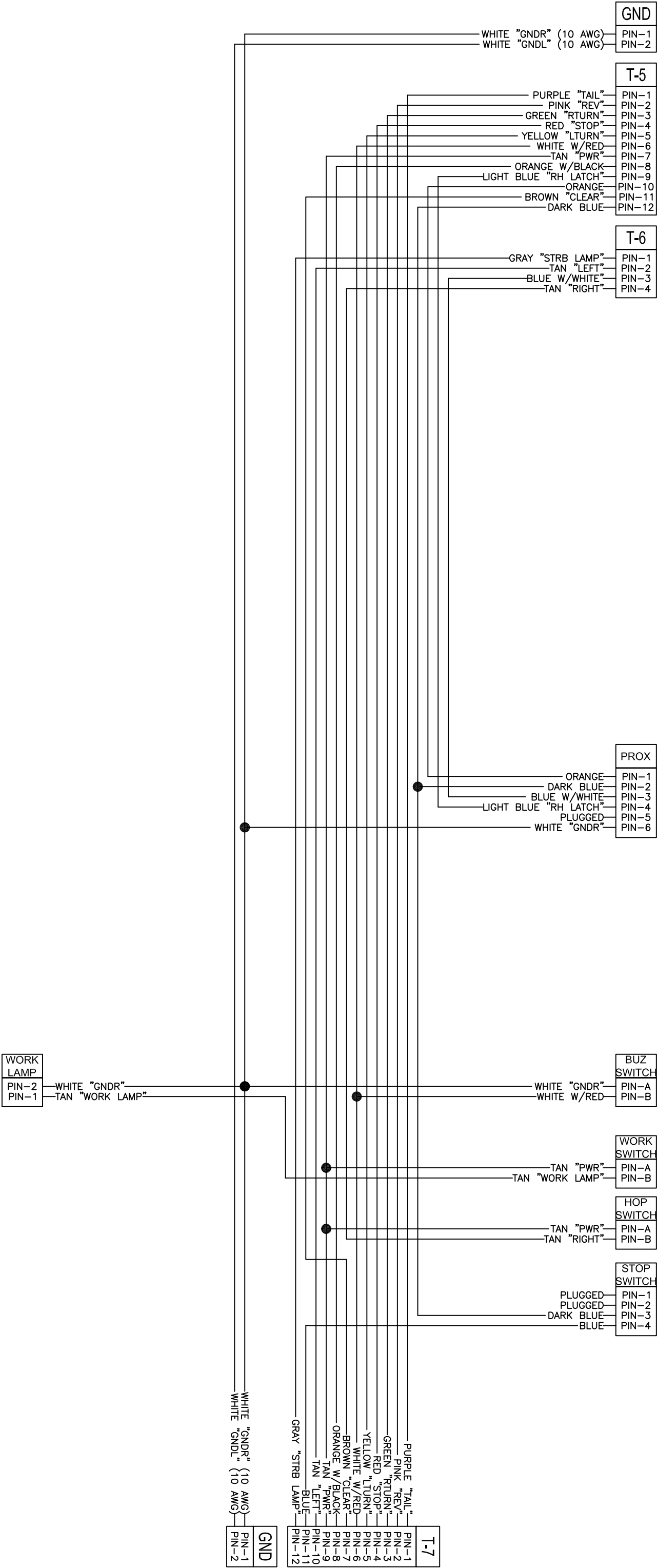


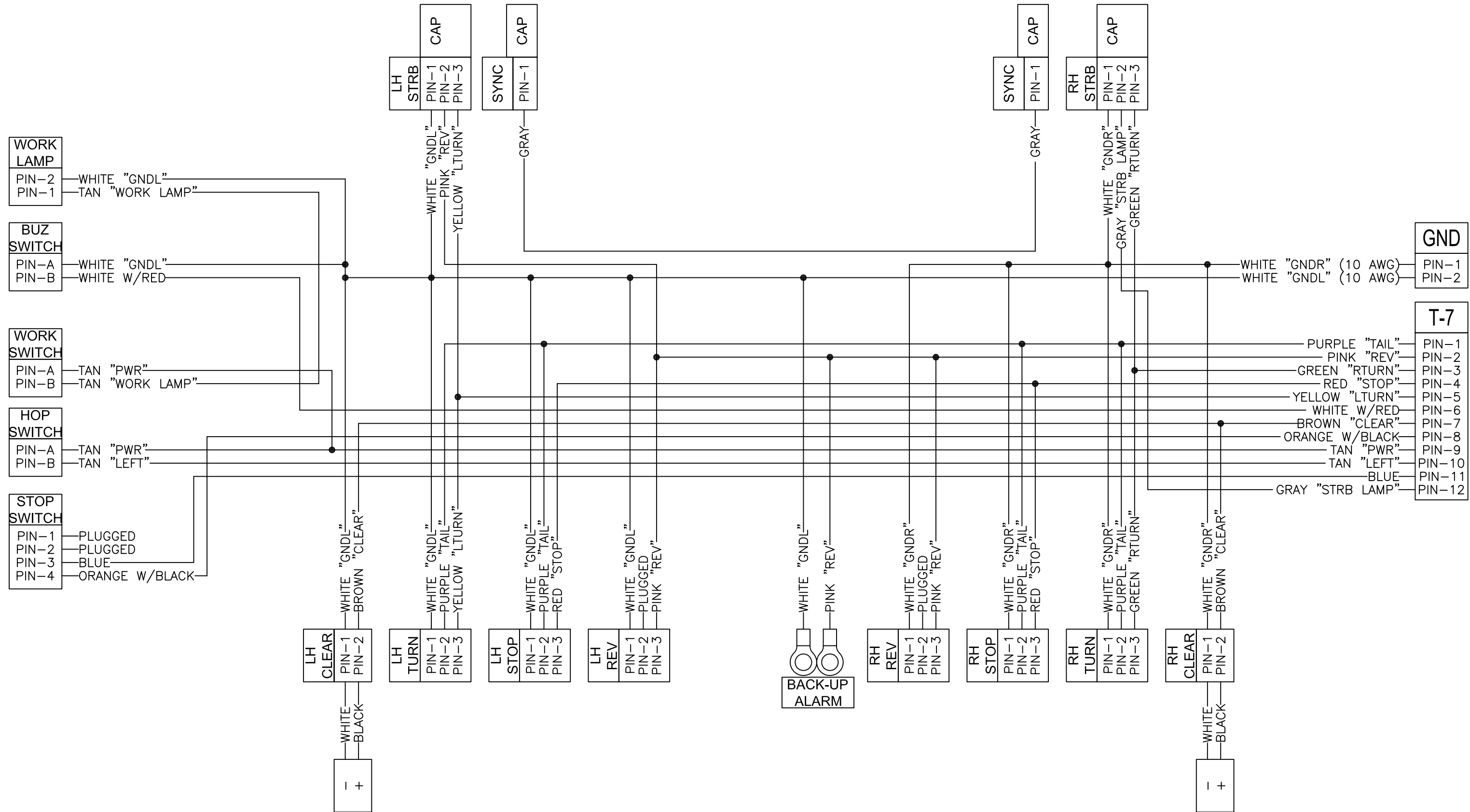
**HOPPER LIGHTS INTEC HARNESS – 263-1838-009**













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## **HEIL ENVIRONMENTAL WARRANTY STATEMENT**

The Heil Co. d/b/a Heil Environmental ("Heil") warrants its solid waste collection equipment to be free from defects in material and workmanship under normal use for a period of one (1) year or 2000 hours of operation (whichever comes first) from the date of equipment In-Service or during the period of coverage offered by an extended warranty program, when proper service and maintenance as described in Heil Service Bulletins and Parts & Service Manuals are performed. The standard or extended equipment warranty is not transferable except for sales demonstration units.

This warranty is expressly limited to the repair or replacement of any component or part thereof, of any such refuse or recycling collection body manufactured by Heil that is proven to Heil's satisfaction to have been defective in material or workmanship. Such components or parts shall be repaired or replaced at Heil's option without cost to the standard purchaser for parts and labor provided such unit is returned to an authorized Heil Distributor for replacement or repair. The repair or replacement must be made during the standard or extended warranty coverage period. Before any warranty can be allowed on new equipment, a validated warranty registration form must be on file with Heil's Customer Service Department within sixty (60) days of the equipment's In-Service date. Wear items are excluded from warranty coverage.

All OEM service parts sold by Heil have a six (6) month warranty from the date of purchase. Aftermarket parts purchased from Heil are supported by a 90-day warranty. The parts warranty covers parts only, providing that factory inspection reveals a defect in material or workmanship. Labor, troubleshooting, equipment downtime, etc. is not covered under the parts warranty policy.

HEIL MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, AND MAKES NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR ANY PARTICULAR PURPOSE. HEIL DOES NOT ASSUME ANY LIABILITY OR ACCEPT CLAIMS FOR LOSS OF PROFITS, PRODUCT DOWN TIME OR ANY OTHER DIRECT, INCIDENTAL OR INDIRECT CONSEQUENTIAL LOSSES, COSTS, DAMAGES OR DELAYS.

Any improper use, operation beyond rated equipment or component capacity, substitution of parts that are not Heil-approved, or any alteration or repair by others in such a manner as in Heil's sole judgment affect the product operation or integrity shall void the warranty.

Other than the extension of the standard warranty period purchased under a supplemental Heil Extended Warranty Program, no employee or representative is authorized to modify this warranty in any way nor shall any other warranties be granted. No dealer-supplied warranty program is endorsed or supported by Heil.

Heil retains the right to modify its factory warranty program prospectively at any time.



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