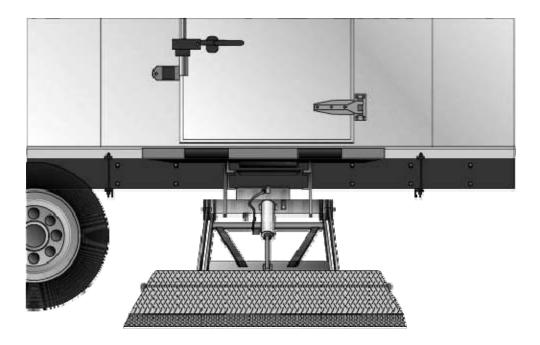


# Owner's Manual TSG Hide-A-Way<sup>®</sup> Truck Side Gate



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# **INTRODUCTION**

This manual contains the operating procedures on the equipment your company is using that was manufactured by Leyman Manufacturing Corporation.

Past experience has indicated that it is most unwise to operate these units without proper instructions, which should be instituted by the purchaser.

While these products have certain safety features engineered into their design, they are all operated by human beings. Therein lies the problem of safety and one should always have caution in mind when operating this or any other machine that has parts that weigh several hundred pounds.

Again, let us remind you that there are moving parts on this product that weigh several hundred pounds. These parts, when not under proper control, can cause physical damage to the operator. Because of the weights that are involved; carelessness and neglect of training can make these units dangerous.

Do not overload this product. Maintain it properly. Stand clear of moving parts. Operate as instructed.

This lift gate has a long life expectancy and will take some abuse. Use good judgment when operating this equipment.

Customer:	
Model:	
Capacity:	
Туре:	
Power: 12 volt	
Platform:	
Serial #:	
Options:	
Maximum Height:	56"
Hydraulic Pressure:	Loaded 2,500 PSI at the pump (By-Passing)
AMP Draw:	Loaded 210, Unloaded 100

# PLEASE FILL IN FOR YOUR RECORDS

When placing parts order, you will need the serial # and model # of the lift gate.

# WORDS OF CAUTION

- 1. Before any maintenance is performed on this unit, read and understand this manual completely.
- 2. Do not stand on or behind the platform when operating gate in the folded position.
- 3. Make sure the ground is clear under the platform when lowering.
- 4. Do not stand in front of platform when lowering from vertical position or operating in any manner.
- 5. Never exceed the rated load capacity of this gate.
- 6. Do not allow persons to operate the unit unless they have been properly trained to do so.
- 7. Use only factory authorized parts for replacement.
- 8. Check the area around the unit for persons before operating the lift gate.
- 9. This lift gate should operate smoothly and the only noise that should be heard is the power unit. Any audible sounds other than the normal power unit operation sound should be thoroughly inspected and the cause of the noise should be pinpointed and corrected.
- 10. Do not over load the maximum rated capacity is based on an evenly distributed load all over the platforms flat surface.
- 11. Always load as close to the center of the platform and as close to the center of the truck sill as possible.
- 12.150 Amp circuit breaker (not supplied) must be installed between the starter solenoid and the battery source. Order from factory as option #111-Circuit Breaker.

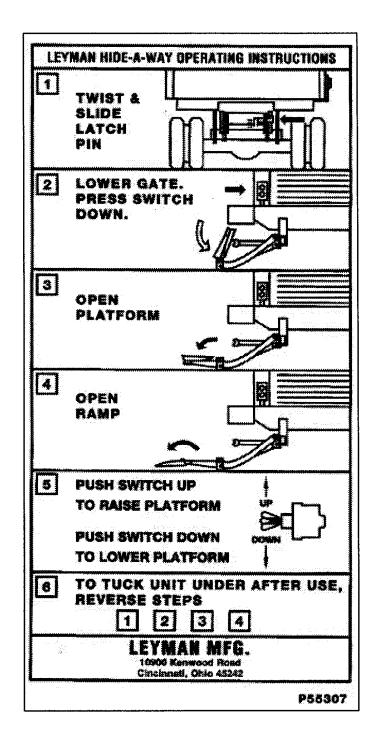
We urge the installation of a safety cut-off switch for all truck mounted lift gates. These are installed in the cab of the vehicle, so the power to the lift gate can be turned on/off.

**WARNING:** Pressure relief valve in power unit must NEVER be set above 2500 psi. Pressures above 2500 psi can damage lifting arms. Failure to follow this warning could result in accident or injury.

**WARNING:** Since this gate has greaseless bearings in the main pivot points, (tension and compression arms and platform parts) any welding on these parts must be grounded or you will damage the cylinder.

# **OPERATING OF THE LIFT GATE**

- Before operating the lift, read and understand this decal, urgent warning decal, and the Owner's Manual.
- Do not stand behind the lift gate while unfolding or using the platform.





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#### SAFETY AND PREVENTIVE MAINTENANCE INSPECTION HIDE-A-WAY<sup>™</sup> TUCK-UNDER STYLE GATE MODEL LH/LHR/LLB/SLP/TSG

Maintenance by Months

	TOMER:							
	CLE#:		LIFT G	ATE MODEL#:	LIFT GATE SERIAL#:			
	= OK A = ADJUSTED N = NOT APPLICABLE X = WRITE UP REPAIR							
3 MO	6 MO	12 MO		MOTOR – PUMP AND COMPONENTS				
-			Check that battery hole	ds downs are anchored securely				
			Check battery(ies) for	proper charge level. PROP	ER CHARGE LEVEL:			
			Check all wiring conne	ections for tightness (batteries, swit	ches, etc.)			
			Check solenoids for lo	oose fittings and operation.				
			Check reservoir for co	prrect amount of fluid (platform shou	Id be down when checking)			
			Inspect and check all of	circuit breakers. Replace if necessa	ary.			
			Check the charge line	/power line for proper operation and	d connections at both ends.			
			Remove and clean all	Remove and clean all pump solenoid cartridges.				
			Replace hydraulic fluid in reservoir (see owners manual for recommended fluids).					
			Check and adjust the relief valve setting (2500 psi max.). See Warning on Page. 4.					
			Check brushes and armature in motor. Replace if necessary.					
			Check amperage draw of motor (see owners manual for recommended amp draw)					
3 MO	6 MO	12 MO	LUBRICATION					
			Lightly lubricate platfor	rm and ramp hinges.				
			Lubricate all zerk fittings, if present. Greaseless gates have greaseless bushings.					
3 MO	6 MO	12 MO	LIFT GATE STRUCTURE INSPECTION					
			Raise and lower lift ga	Raise and lower lift gate. Observe for correct operation.				
			Check hoses and fittings for chaffing, rubbing and leaks.					
			Check all pivot pins and bushings for wear. Repair immediately. See Warning below.					
			Check operation of transit latch (safety latch). Repair as necessary.					
			Check up and down cylinder for leaks. Repack or replace cylinder.					
			Inspect for broken and					
			Steam clean gate. Rep	pair any structural welds as needed	1			
			Repaint where needed	d and replace and worn or missing	safety decals.			
SEF	RVICED BY:			DATE:	Form June-07			

Form June-07

WARNING: Worn pivot pins or missing bushings must be replaced immediately. Failure to follow this warning could result in accident or injury.

# **Recommended Hydraulic Oils**

Level 1

Normal Conditions

<u>Manufacturer</u>	<u>Type</u>	Temperature Range
Chevron	RYKON ISO-15	-15°F to 150°F
Mobil	DTE-11	-15°F to 150°F
Shell	TELLUS-T15	-15°F to 150°F

Level 2

Cold Conditions

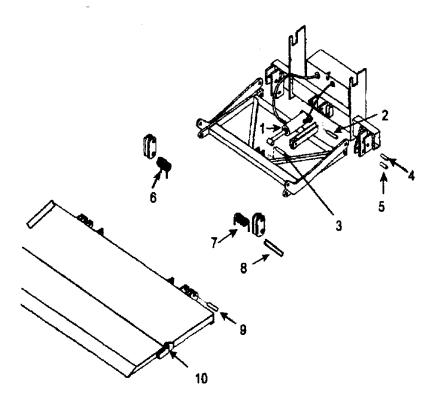
<u>Manufacturer</u>	<u>Type</u>	Temperature Range
Chevron	AVIATION-A	-50°F to 80°F
Mobil	AERO-HFA	-50°F to 80°F
Shell	AERO FLUID #4	-50°F to 80°F
Mil	H-5606	-50°F to 80°F

# **TROUBLE SHOOTING CHART**

#### ALL TSG MODELS

PROBLEM	PROBABLE CAUSE	REMEDY
The motor is running, but the	1. Insufficient oil in power unit	1. Fill tank.
platform will not go up, or	tank.	2. Clean or replace.
reach floor of vehicle or gate	2. Lowering valve stuck	3. Turn screw in all the way,
will not lift rated load.	partially or fully open.	then back off one turn.
	3. Power unit relief valve is set	
	too low.	
The platform will not go up or	1. Battery is low.	1. Recharge the batteries.
reach floor level and the	2. Power line is loose.	2. Check the connection, if
motor does not run.	<ol><li>Poor switch connections.</li></ol>	loose tighten. Also, check
	4. Cab switch is turned off.	for corrosion and clean if
	5. Defective starter solenoid.	necessary.
	<ol><li>Tripped circuit breaker.</li></ol>	3. See #2.
		4. Turn the switch on.
		5. Replace part.
		6. Reset the circuit breaker.
Platform will not lower.	1. Battery is low.	<ol> <li>Recharge the batteries.</li> </ol>
	<ol><li>Bad ground or electrical</li></ol>	2. Check for corrosion and
	connection.	tighten.
	<ol><li>Lowering valve is bad.</li></ol>	3. Check the coil.
Platform creeps downward.	<ol> <li>Defective cylinder or piston</li> </ol>	<ol> <li>Remove breather –</li> </ol>
	seal.	activate to see if there is a
	<ol><li>Lowering valve is not</li></ol>	continuous flow of oil.
	seating or is partially open.	2. Clean and inspect.
Platform goes down slowly.	<ol> <li>Lowering valve not fully</li> </ol>	<ol> <li>Clean and replace the</li> </ol>
	open or is clogged.	lowering valve.
	2. Lines are restricted or flow	2. Check for bent or pinched
	control is clogged.	lines. Clean or replace
		the flow control.
Bent latch pin.	1. Latch block welded too far	1. Weld block 1/16 away
	from the latch pin-allows	from pin.
	mechanism to bounce.	<ol> <li>Remove breather –</li> </ol>
	2. Cylinder leaking.	activate to see if there is a
		continuous flow of oil.
Hydraulic oil leak from	1. Loosen gland out.	1. Turn gland nut 1/2 turn –
cylinder rod end.	2. Cylinder rod pitted.	do not over tighten.
		2. Replace cylinder.

# **REPLACEMENT PARTS**



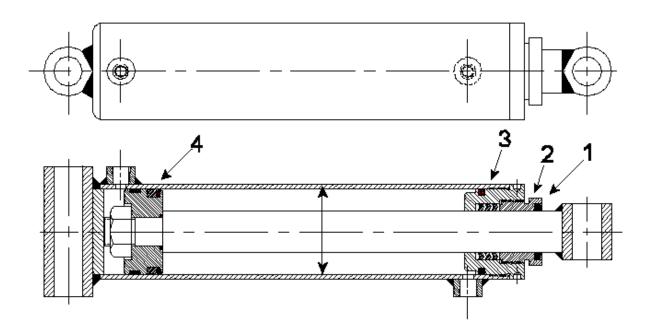
Item #	Part #	Qty	Description
1	P33988	1	Cylinder 1850 gate
1	P33989	1	Cylinder 2500 gate
1	P33990	1	Cylinder 3000 gate
1	P33990	1	Cylinder 3500 gate
	P43578	3	Cylinder bushing (for all cylinders)
2	AA-800-228	1	Shaft assembly for cylinder base end
3	AA-800-234	1	Shaft assembly for cylinder rod end
4	AA-800-230	2	Shaft assembly for tension arms
5	AA-800-232	2	Shaft assembly for comp. arm assembly
6	P25178	1	Spring LH
7	P25179	1	Spring RH (1850 has RH spring only)
8	AP-800-235	2	Cam plate pin
9	AP-800-237	2	Platform cam pin
10	AP-800-236	2	Ramp pin
11	P43575	4	Greaseless bearings (1" ID)
12	P43576	4	Greaseless bearings (1-1/4" ID)

Gate	Part #	Part Name & Description
1850	P33874	Complete seal kit
2500	P33875	Complete seal kit
3000	P33876	Complete seal kit
3500	P33876	Complete seal kit

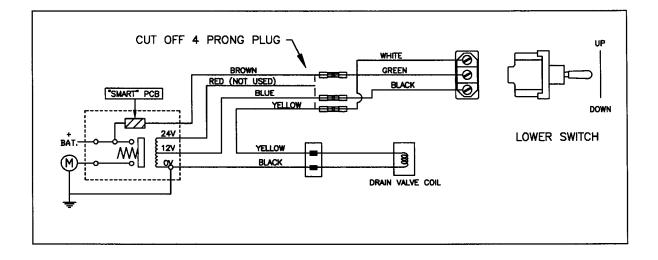
### **COMPONENTS NOT SOLD SEPARATELY**

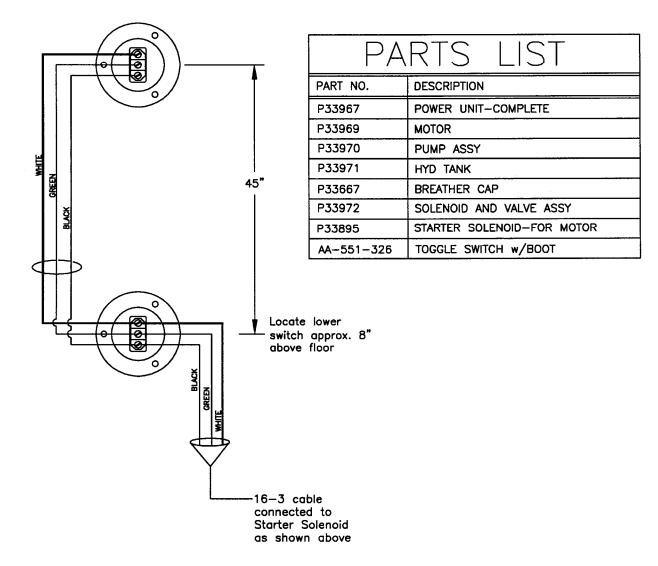
#### COMPLETE SEAL KIT CONSISTS OF:

- 1. Wiper
- Packing Gland Nut
   "V" Packing Kit
   Piston Seal



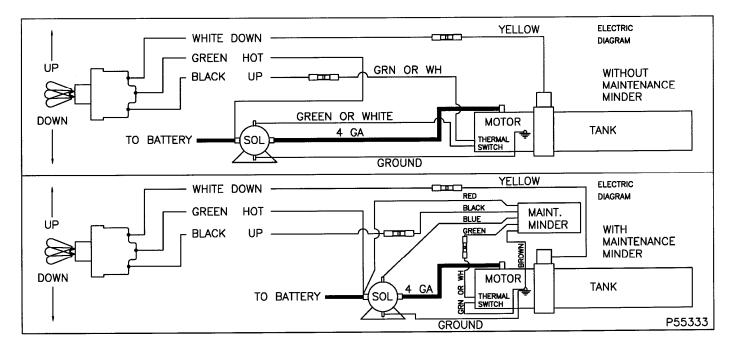
## TSG WIRING SPX/FENNER POWER UNIT (GOLD MOTOR)





# **TSG WIRING**

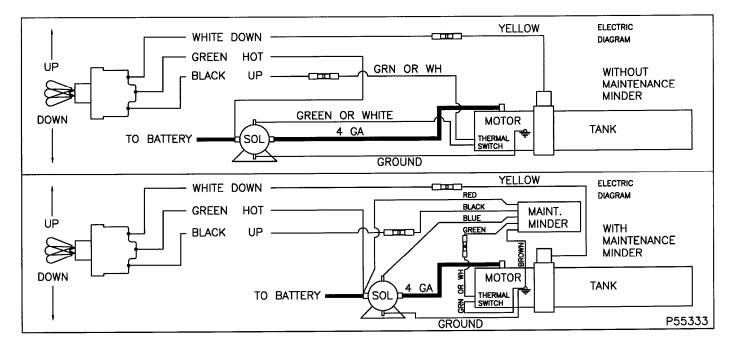
## MONARCH POWER UNIT (Black Motor with Thermal Protection)



Item #	Part #	Description
	AA-501-407	Power unit (complete)
1	P33992A	Motor
2	P34016	Starter solenoid
3	LH150003	Pump
4	P34018	Tank
5	LH150015	Breather cap
6	LH121	Drain valve

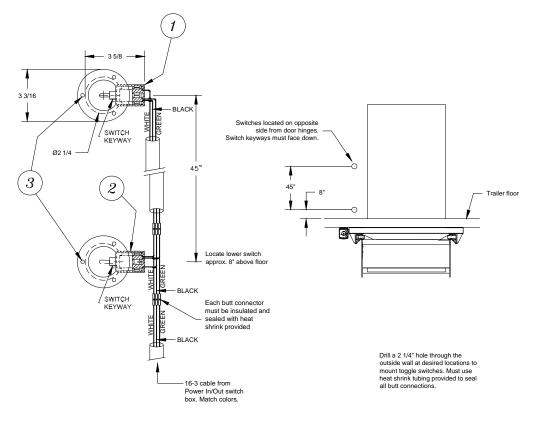
## **TSG WIRING**

## INDIANA FLUID POWER - POWER UNIT (Black Motor with Thermal Protection)



Item #	Part #	Description
	AA-501-407	Power unit (complete)
1	P34210	Motor
2	P34211	Starter solenoid
3	P34213	Pump
4	P34212	Tank
5	P34214	Breather cap
6	P34215	Drain valve

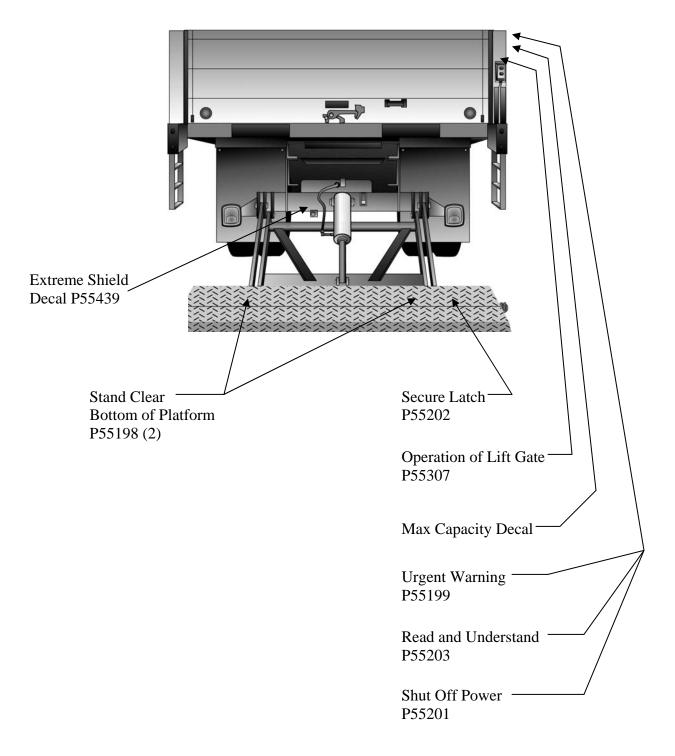
# POWER UNIT (Cont.) (Black Motor with Thermal Protection)



(BA-551-323)

Item #	Part #	Description
1	AA-551-538	Upper Up/Down Switch Assy.
2	P46729	Lower Up/Down Switch Assy.
3	P17536	Sheet Metal Screw

# **DECAL PLACEMENT**



# NOTES

