

---

**SYSTEM WILL NOT TURN ON, INDICATOR LIGHT DOES NOT LIGHT**

---

<b>PROBABLE CAUSE</b>	<b>CORRECTIVE ACTION</b>
COACH IGNITION NOT IN RUN POSITION	TURN IGNITION TO RUN POSITION
TRANSMISSION NOT IN PARK OR NEUTRAL	PLACE TRANSMISSION IN PARK OR NEUTRAL
PARKING BRAKE NOT SET	SET BRAKE
CONTROL HAS BEEN LEFT ON FOR MORE THAN FOUR MINUTES, AUTO SHUT OFF	PUSH ON/OFF BUTTON TWICE
NO POWER TO CONTROL	PIN #5 OF THE 6 PIN CONNECTOR ON THE CONTROL MUST HAVE +12 VDC WITH IGNITION IN RUN POSITION, CHECK COACH FUSE OR BREAKER
GROUND WIRE DISCONNECTED OR SHORTED	PIN #1 OF THE 8 PIN CONNECTOR IS THE MAIN GROUND. TEST FOR CONTINUITY WITH GROUND.
NEUTRAL SAFETY SWITCH WIRES SHORTED	JUMPER PINS #2 AND #6 AT THE 6 PIN CONNECTOR ON THE CONTROL. IF JACKS OPERATE, REPAIR OR REPLACE WIRES OR NEUTRAL SAFETY SWITCH
PARKING BRAKE WIRE NOT GROUNDED, OR FAULTY PARKING BRAKE SWITCH	CHECK CONTINUITY BETWEEN PIN #1 OF THE 6 PIN CONNECTOR AND GROUND. IF THERE IS NO CONTINUITY, THE SWITCH IS BAD, THE PARKING BRAKE IS NOT SET, OR THE WIRES TO THE SWITCH ARE BAD.
FAULTY CONTROL	IF ALL PREVIOUS CAUSES AND ACTIONS DO NOT APPLY REPLACE CONTROL

## JACKS WILL NOT EXTEND, PUMP IS NOT RUNNING

PROBABLE CAUSE	CORRECTIVE ACTION
(OLD CONTROL) FUSE BLOWN	REPLACE FUSE XF1 ON TOUCH PAD
MOTOR SOLENOID WIRE DEFECTIVE	CHECK FOR POWER AT THE BLUE SOLENOID SIGNAL WIRE WHILE JACKS DOWN BUTTON IS PUSHED. IF NO POWER, CHECK FUSES, WIRES, AND CONTROL..
NO POWER FROM BATTERY TO PUMP	CHECK FOR +12 VDC AT THE LARGE BATTERY TERMINAL OF THE SOLENOID, IF NO VOLTAGE RECHARGE BATTERY OR REPLACE POWER CABLE.
BAD GROUND TO PUMP MOTOR	ADD NEW GROUND CABLE FROM PUMP MOTOR TO CHASSIS BATTERY; CHECK CHASSIS GROUND CONNECTION
MOTOR SOLENOID FAULTY	CHECK FOR POWER AT THE BLUE SOLENOID SIGNAL WIRE WHILE JACKS DOWN BUTTON IS PUSHED. IF NO POWER, CHECK FUSES, WIRES, AND CONTROL. IF POWER IS PRESENT, CONNECT +12 VDC TO MOTOR SIDE TERMINAL OF SOLENOID; IF MOTOR RUNS, REPLACE SOLENOID
PUMP MOTOR FAULTY	CHECK FOR CONTINUITY BETWEEN THE MOTOR AND GROUND. CONNECT +12 VDC TO MOTOR SIDE TERMINAL OF SOLENOID; IF MOTOR DOES NOT RUN, REPLACE PUMP
FAULTY CONTROL	IF ALL PREVIOUS CAUSES AND ACTIONS DO NOT APPLY REPLACE CONTROL

## JACKS WILL NOT EXTEND, PUMP IS RUNNING

PROBABLE CAUSE	CORRECTIVE ACTION
FLUID LEVEL LOW; PUMP CAVITATING	FILL TANK TO PROPER LEVEL WITH AUTOMATIC TRANSMISSION FLUID SEE TIP SHEET 140
PUMP HARNESS FUSE BLOWN	CHECK FOR +12 VDC AT THE RED WIRE FOR EACH SOLENOID VALVE. IF NONE, LOCATE FUSE ON HARNESS WITHIN 18" OF PUMP IN THE CORROGATED HARNESS. REPLACE FUSE WITH 10 AMP MINI FUSE
DUMP VALVE STUCK OPEN OR FAULTY	IT MAY BE POSSIBLE TO USE A LEG VALVE TO DIAGNOSE BY SWAPPING THE DUMP VALVE AND ONE LEG VALVE. IF THE SYSTEM THEN BUILDS PRESSURE THE DUMP VALVE IS BAD (THE LEG THAT NOW HAS THE DUMP VALVE WILL MALFUNCTION). REPLACE DUMP VALVE AND RETURN LEG VALVE TO ORIGINAL POSITION.
LEG SOLENOID WIRES DAMAGED	CHECK FOR "GROUND" AT LEG COIL WIRES FROM CONTROL WHILE PUMP IS RUNNING. IF NO GROUND SIGNAL, CHECK FOR CONTINUITY ON EACH WIRE BETWEEN COIL AND CONTROLLER.
VALVE SOLENOIDS MISWIRED	CHECK WIRING DIAGRAMS
ALL CONTROL FUSES BLOWN	CHECK FOR LOW VOLTAGE TO THE CONTROLLER, SHORTS IN THE WIRING. REPLACE FUSES
FAULTY CONTROL	IF GROUND SIGNAL IS PRESENT ON BROWN WIRE (PIN #2) ON 8 PIN CONNECTOR, REPLACE CONTROL
PUMP FAILURE	IF ALL PREVIOUS CAUSES AND ACTIONS DO NOT APPLY REPLACE PUMP/MOTOR ASSY.

## ONLY FRONT JACKS WILL NOT EXTEND, PUMP IS RUNNING

PROBABLE CAUSE	CORRECTIVE ACTION
FUSE BLOWN	OLD CONTROL: REPLACE FUSE XF5 ON TOUCH PAD : NEW CONTROL REPLACE "FRONT LEG " FUSE
FRONT JACK COIL GROUND WIRE FAULTY	PIN #7 OF THE 8 PIN CONNECTOR COMPLETES CIRCUIT (SWITCHES TO GROUND WITH BUTTON PUSHED) CHECK FOR CONTINUITY, IF NONE REPLACE WIRE
FRONT JACK COIL +12 VDC WIRE FAULTY	CHECK FOR +12 VDC AT THE COIL TERMINAL, OF NOT REPLACE WIRE.
FRONT JACK VALVE SOLENOID DEFECTIVE	CHECK COIL FOR CONTINUITY, IF NONE REPLACE SOLENOID
FRONT JACK VALVE FAULTY	REPLACE SOLENOID VALVE

**ANY ONE OF THE REAR JACKS WILL NOT EXTEND,  
PUMP IS RUNNING**

<b>PROBABLE CAUSE</b>	<b>CORRECTIVE ACTION</b>
FUSE BLOWN	OLD CONTROL: REPLACE FUSE XF3 ON TOUCH PAD FOR ROAD SIDE JACK REPLACE FUSE XF4 FOR CURB SIDE JACK  NEW CONTROL: REPLACE 'LEFT REAR JACK' OR 'RIGHT REAR JACK' FUSE ON CONTROL BOX
JACK COIL +12 VDC WIRE FAULTY	CHECK FOR 12 VDC ON RED COIL WIRE. IF NONE CHECK FUSE AND WIRE.
VALVE SOLENOID COIL IS DEFECTIVE	CHECK COIL FOR CONTINUITY, IF NONE REPLACE SOLENOID
OPEN IN WIRE HARNESS	CHECK FOR 12 VDC AT PIN 5 OR 6 OF THE EIGHT PIN CONNECTOR. IF NO 12VDC, REPLACE WIRE.
JACK VALVE FAULTY	REPLACE SOLENOID VALVE

**ALL JACKS WILL NOT RETRACT OR WILL NOT RETRACT FULLY**

<b>PROBABLE CAUSE</b>	<b>CORRECTIVE ACTION</b>
DUMP VALVE FUSE BLOWN	OLD CONTROL: REPLACE FUSE XF2 ON TOUCH PAD  NEW CONTROL: REPLACE 'DUMP VALVE' FUSE ON CONTROL BOX
SYSTEM OVERFILLED WITH FLUID	DRAIN FLUID TO RECOMMENDED LEVEL-SEE TIP 140
PUMP HARNESS FUSE BLOWN	LOCATE FUSE ON HARNESS WITHIN 18" OF PUMP IN THE CORROGATED HARNESS. REPLACE FUSE WITH 10 AMP MINI FUSE
SYSTEM IS OPERATING AS IF THE JACKS ARE ALREADY RETRACTED	CHECK FLOAT SWITCH OPERATION. CHECK THE FLOAT SWITCH FOR PROPER ORIENTATION. CHECK THE SYSTEM FOR OVERFILLING. CHECK FOR CONTINUITY ON BROWN WIRE FROM FLAOT SWITCH TO CONTROL. CHECK FOR 12 VDC TO FLOAT ON RED WIRE.
DUMP SOLENOID COIL GROUND WIRE FAULTY	PIN #4 OF THE 8 PIN CONNECTOR COMPLETES CIRCUIT CHECK FOR CONTINUITY, IF NONE REPLACE WIRE (SWITCHES TO GROUND WITH BUTTON PUSHED)
DUMP SOLENOID COIL +12 VDC WIRE FAULTY	CHECK FOR +12 VDC AT THE COIL TERMINAL. IF NONE CHECK FUSE AND WIRE
DUMP SOLENOID COIL DEFECTIVE	CHECK COIL FOR CONTINUITY, IF NONE REPLACE SOLENOID
DUMP SOLENOID VALVE FAULTY	REPLACE VALVE
FAULTY CONTROL	IF ALL PREVIOUS CAUSES AND ACTIONS DO NOT APPLY REPLACE CONTROL SEE TIP SHEETS 39, 65

## ANY ONE OR TWO JACKS WILL NOT RETRACT AT ALL

PROBABLE CAUSE	CORRECTIVE ACTION
BROKEN JACK SPRING (S)	REPLACE JACK SPRING SEE TIP SHEET 34
FUSE ON CONTROL PANEL BLOWN	OLD CONTROL: REPLACE FUSE XF3 FOR ROAD SIDE JACK REPLACE FUSE XF4 FOR CURB SIDE JACK REPLACE FUSE XF5 FOR FRONT JACK (S) ON TOUCH PAD NEW CONTROL: REPLACE 'FRONT LEGS', 'LEFT REAR LEG' OR 'RIGHT REAR JACK' FUSE ON CONTROL BOX
JACK COIL GROUND WIRE FAULTY	PIN #5 OF THE 8 PIN CONNECTOR COMPLETES CIRCUIT FOR ROAD SIDE JACK PIN #6 OF THE 8 PIN CONNECTOR COMPLETES CIRCUIT FOR CURB SIDE JACK PIN #7 OF THE 8 PIN CONNECTOR COMPLETES CIRCUIT FOR FRONT JACK (S) CHECK FOR CONTINUITY, IF NONE REPLACE WIRE
JACK COIL +12 VDC WIRE FAULTY	CHECK FOR +12 VDC AT THE COIL TERMINAL IF NONE CHECK FUSE AND WIRE CHECK COIL FOR CONTINUITY, IF NONE REPLACE SOLENOID
JACK ROD GUIDE IS RUSTED OR DIRTY	CLEAN CHROME ROD, GREASE ROD GUIDE IF EQUIPPED WITH GREASE FITTINGS. OTHERWISE LUBRICATE WITH SILICONE FLUID. IT MAY BE NECESSARY TO RESEAL JACK OR REPLACE.
JACK VALVE FAULTY	REPLACE SOLENOID VALVE
JACK VALVE COIL IS DEFECTIVE	CHECK COIL FOR CONTINUITY. IF NONE, REPLACE COIL.

## ANY JACK RETRACTS VERY SLOWLY

PROBABLE CAUSE	CORRECTIVE ACTION
SHUNT VALVE CLOGGED	REMOVE HOSE FITTING ON MANIFOLD FOR THAT JACK, TO GAIN ACCESS TO VALVE. CLEAN VALVE PASSAGES WITH SOLVENT AND COMPRESSED AIR.
SHUNT VALVE SPRING DAMAGED	REPLACE SPRING
HOSE DAMAGED	REPLACE KINKED, OR DAMAGED HOSE (DAMAGE MAY NOT BE VISIBLE EXTERNALLY)
JACK ROD GUIDE IS RUSTED OR DIRTY	CLEAN CHROME ROD, GREASE ROD GUIDE IF EQUIPPED WITH GREASE FITTINGS. OTHERWISE LUBRICATE WITH SILICONE FLUID. IT MAY BE NECESSARY TO RESEAL JACK OR REPLACE.
INTERNAL FAILURE WITHIN JACK	REBUILD / REPLACE COMPONENTS OR JACK AS NECESSARY.

**ANY JACK RETRACTS WITH NO POWER,  
WITH POSSIBLE POPPING SOUND**

<b>PROBABLE CAUSE</b>	<b>CORRECTIVE ACTION</b>
AIR IN SYSTEM	CHECK FOR COILS IN HOSE. REMOVE THE COIL IF PRESENT THEN EXTEND ALL JACKS TO FULL EXTENSION, THEN RETRACT FULLY, REPEAT 4 CYCLES WAITING A FEW MINUTES BETWEEN CYCLES, CHECK FLUID LEVEL IN BETWEEN CYCLES
CONTAMINATED FLUID	REPLACE FLUID, SEE PAGE A3, TIP SHEET 140 AND 141.
LEG SOLENOID VALVES STUCK OPEN	REMOVE SOLENOID VALVE, CLEAN OR REPLACE
DUMP SOLENOID VALVE CONTAMINATED	REMOVE SOLENOID VALVE, CLEAN OR REPLACE
DUMP SOLENOID VALVE STUCK OPEN	REPLACE SOLENOID VALVE
ALL SOLENOID VALVES STUCK OPEN	REPLACE ALL VALVES
JACK LEGS CREATE POPPING SOUND	EXTEND JACK LEGS, CLEAN ROD, LUBRICATE WITH LIGHT WEIGHT GREASE IF EQUIPPED WITH GREASE FITTINGS OR LUBRICATE WITH SILICONE SPRAY
	DUE TO CHANGES IN TEMPERATURE, EXPANDING AND CONTRACTING OF FLUID WILL MAGNIFY THE PROBLEM OF POPPING JACKS, TO HELP MINIMIZE THIS REPLACE FLUID WITH MERCON V FLUID

**PANEL JACKS DOWN LIGHT WILL NOT GO ON  
WITH JACKS EXTENDED**

<b>PROBABLE CAUSE</b>	<b>CORRECTIVE ACTION</b>
HARNESS WIRE FAULTY	CHECK FOR +12 VDC AT FLUID SENSOR
	REPLACE 10 AMP MINI FUSE ON PUMP HARNESS
FLUID SENSOR MIS ADJUSTED	SEE TIP SHEET 30, 54 OR 81 FOR FLUID SENSOR ORIENTATION
FLUID SENSOR FAULTY	CHECK FLUID SENSOR FOR CONTINUITY* WITH JACKS EXTENDED, IF NO CONTINUITY, REPLACE SENSOR * CONTINUITY: PRE 2001 MODELS, RESISTANCE SHOULD BE NEAR ZERO. FOR 2001 AND NEWER UNITS, RESISTANCE SHOULD BE NEAR 1 KW
OPEN ON THE BROWN WIRE	CHECK FOR CONTINUITY BETWEEN BROWN WIRE AT FLOAT SENSOR AND BROWN WIRE AT CONTROL. IF NONE REPLACE WIRE.
DEFECTIVE LIGHT ON TOUCH PAD	APPLY +12 VDC AT BROWN WIRE TO 8 PIN HARNESS WITH KEY ON. IF NO LIGHT. REPLACE TOUCH PAD, CONTROL, OR BOTH.

**PANEL JACKS DOWN LIGHT WILL NOT GO OFF  
WITH JACKS RETRACTED**

<b>PROBABLE CAUSE</b>	<b>CORRECTIVE ACTION</b>
LOW FLUID LEVEL	FILL TANK WITH AUTOMATIC TRANSMISSION FLUID SEE PAGE A3 AND TIP SHEET 140
FLUID SENSOR MISADJUSTED	SEE TIP SHEET 30, 54 OR 81 FOR FLUID SENSOR ORIENTATATION
FLUID SENSOR FAULTY	CHECK FLUID SENSOR FOR CONTINUITY* WITH JACKS EXTENDED, IF NO CONTINUITY, REPLACE SENSOR * : PRE 2001 MODELS, RESISTANCE SHOULD BE NEAR ZERO. FOR 2001 AND NEWER UNITS, RESISTANCE SHOULD BE NEAR 1 KW

**PANEL JACKS DOWN LIGHT AND ALARM WILL GO ON WHILE  
DRIVING, JACKS RETRACTED**

<b>PROBABLE CAUSE</b>	<b>CORRECTIVE ACTION</b>
LOW FLUID LEVEL	FILL TANK WITH AUTOMATIC TRANSMISSION FLUID SEE TIP SHEET 140
FLUID SENSOR MISADJUSTED	SEE TIP SHEET 30, 54 OR 81 FOR FLUID SENSOR ORIENTATION
FLOAT SENSOR FAULTY	CHECK FLUID SENSOR FOR CONTINUITY* WITH JACKS EXTENDED, IF NO CONTINUITY*, REPLACE SENSOR: PRE 2001 MODELS, RESISTANCE SHOULD BE NEAR ZERO. FOR 2001 AND NEWER UNITS, RESISTANCE SHOULD BE NEAR 1 KW
SHORT IN HARNESS	CHECK PUMP HARNESS FOR CROSSED CIRCUITS, CONTACT FACTORY FOR FURTHER INFORMATION.

## **POWER GEAR LIMITED WARRANTY**

Power Gear warrants to the original retail purchaser that the product will be free from defects in material and workmanship for a period of (2) years following the retail sales date. Power Gear will, at its option, repair or replace any part covered by this limited warranty which, following examination by Power Gear or its authorized distributors or dealers, is found to be defective under normal use and service. No claims under this warranty will be valid unless Power Gear or its authorized distributor or dealer is notified in writing of such claim prior to the expiration of the warranty period. Warranty is transferable pending documentation of original sale date of product.

### **THIS WARRANTY SHALL NOT APPLY TO:**

- Failure due to normal wear and tear, accident, misuse, abuse, or negligence.
- Products which are modified or altered in a manner not authorized by Power Gear in writing.
- Failure due to misapplication of product.
- Telephone or other communication expenses.
- Living or travel expenses.
- Overtime labor.
- Failures created by improper installation of the product's slideout system or slideout room to include final adjustments made at the plant for proper room extension/retraction; sealing interface between slideout rooms and side walls; synchronization of inner rails; or improper wiring or ground problems.
- Failures created by improper installation of leveling systems, including final adjustments made at the plant, or low fluid level, wiring or ground problems.
- Replacement of normal maintenance items.

There is no other express warranty other than the foregoing warranty. THERE ARE NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL POWER GEAR BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state. Some states do not allow the limitations of implied warranties, or the exclusion of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

For service contact your nearest Power Gear authorized warranty service facility or call 1-800-334-4712. Warranty service can be performed only by a Power Gear authorized service facility. This warranty will not apply to service at any other facility. At the time of requesting warranty service, evidence of original purchase date must be presented.

**Power Gear**  
1217 E. 7<sup>th</sup> Street  
Mishawaka, IN 46544  
800/334-4712  
[www.powergearus.com](http://www.powergearus.com)