

Service Tips

Leveling Jack Retraction

If you encounter a situation where your HWH leveling jacks do not retract properly or quickly enough, consider the following. It is important that the jack rams are clean and free of dust and oil. Do not use products like WD40, vegetable oil or

Vaseline to lubricate your jacks, as they likely will attract dirt and dust. These jacks need no additional lubrication.

The following information is part of an Information Bulletin published by HWH Corporation to its dealers.

JACK RETRACTION TIME FOR 2005 AND PRIOR MODEL VEHICLES

Due to many factors involved such as jack size, hose length and size, installation and hose routings, manufacturing tolerances and temperature, jacks, even of the same size, will not retract at the same speed. In seal design, there is a relationship between seal pressure and the ability to seal. Seal pressure is the amount of "squeeze" the seal exerts on the parts it is assembled into. The greater the seal pressure, the better the sealing capability. Therefore, jacks that retract the fastest may not necessarily be the best. As long as all four jacks are fully retracted within the times listed below, service is not necessary when one or more jack(s) retract slower than the others.

The following are allowable retraction times for different temperature ranges and conditions.

NOTE: The temperatures noted are for the jacks and the oil in the hoses, not air temperature. Early in the day, especially in colder weather, the temperature of the jacks is probably lower than the air temperature. Even when the vehicle is brought into a heated building, it may take several hours for the jacks and oil to warm up to air temperature. An infrared temperature gun can be used to check the jack temperature.

DO NOT ESTIMATE TIMES. USE SOME TYPE OF WATCH TO DETERMINE THE RETRACTION TIME OF THE JACKS.

TEMPERATURE RANGE (FAHRENHEIT)	JACK SIZE	ALLOWABLE RETRACTION TIME
1. ABOVE 60 DEGREES	6,000 and 9,000# JACKS	FOUR (4) MINUTES
	12,000 and 16,000# JACKS	FIVE (5) MINUTES
	24,000# JACKS	SEVEN (7) MINUTES
2. BETWEEN 30 DEGREES AND 60 DEGREES	6,000 and 9,000# JACKS	SEVEN (7) MINUTES
	12,000 and 16,000# JACKS	NINE (9) MINUTES
	24,000# JACKS	THIRTEEN (13) MINUTES
2. BETWEEN 0 DEGREES AND 30 DEGREES	6,000 and 9,000# JACKS	FOURTEEN (14) MINUTES
	12,000 and 16,000# JACKS	EIGHTEEN (18) MINUTES
	24,000# JACKS	TWENTY SIX (26) MINUTES

When temperatures are below 0 degrees Fahrenheit, there are no allowable retraction times given. Times for complete jack retraction can exceed the times given for temperatures between 0 and 30 degrees Fahrenheit.

If the jacks will retract completely but exceed the allowable retraction times, replacing the return springs will in most cases resolve the problem. In normal conditions above freezing, if a jack will retract with a little assistance, replacing the springs may resolve the problem. If a jack has to be forced up, as with a pry bar, the cylinder will most likely have to be replaced. If replacing the springs does not solve the problem, the cylinder must be replaced.

If a vehicle is parked or stored for an extended period of time and the jacks fail to retract completely, extend the jacks back down to the ground then retract the jacks again. If the jacks do not retract completely without assistance, replace the springs.

It is possible a customer may experience a situation where a jack needs assistance when retracting that cannot be duplicated in the shop. If this occurs, contact HWH Corporation technical assistance.

The following are the correct replacement part numbers for return spring kits. There are two (2) springs included in each spring kit. The correct spring kit must be used.

All 6,000# and 9,000# jacks with 13" or 15" stroke	R3847
All 6,000# and 9,000# jacks with 16" stroke	R3848
All 12,000# jacks with 13" or 16" stroke	R91642
All 16,000# jacks with 13" or 16" stroke	R2365
All 24,000# jacks with 13" or 16" stroke	R2365

Additional information can be found at www.hwhcorp.com or by visiting your local Winnebago Industries dealer.