

The following make/model transmissions are approved and warranted for towing when equipped with -  
HARDWARE PACK #  
**LP-HP011**

<b>NISSAN/INFINITI</b>	
Nissan Sentra (RE/LF03)	
Nissan Altima / Quest ((RE4F04)	
Nissan Maxima (RE4F04)	
Nissan Quest (RE4F04)	
Nissan Versa (RE4F04)	

## **Towed Vehicle Lube Pump and Plumbing Installation Instructions**



# **LP-HP011**

**INSTALLER: GIVE THESE INSTRUCTIONS TO THE END USER AFTER INSTALLATION FOR THEIR FUTURE REFERENCE**

NO WARRANTY IS EXPRESSED OR IMPLIED FOR LUBE PUMP COMPONENTS OR VEHICLE'S TRANSMISSION UNLESS WARRANTY CARD IS FILLED OUT, DATED, AND SUBMITTED TO REMCO  
**See Warranty Card in the General Information Manual Page 5.**

## REMCO LUBE PUMP PACK

### LP-HP011

**TO COMPLETE THE PLUMBING OF YOUR TRANSMISSION WITH THE LUBE PUMP KIT YOU WILL NEED TO LOCATE THE FOLLOWING ITEMS FROM YOUR BASE KIT (LP-BK01) AND USE THEM IN CONJUNCTION WITH THE LP-HP011 HARDWARE PACK TO COMPLETE THE INSTALLATION.**

<b>USE FOLLOWING PARTS FROM BASE KIT (LP-BK01)</b>		
<b>Part #</b>	<b>Description</b>	<b>Quantity</b>
11010046	PUMP ASSEMBLY	1
11010047	LP, PUMP MOUNT BRACKET ASSEMBLY	1
40010019	3/8" HOSE	16'
<b>USE FOLLOWING PARTS FROM HARDWARE PACK (LP-HP011)</b>		
<b>Part #</b>	<b>Description</b>	<b>Quantity</b>
11010007-38	LP, SELECTOR VALVE ASSEMBLY	1
40010014	FITTING, PAN CONNECTOR (NISSAN)	1
40010091	NISSAN, HEX PAN CONNECTOR	1
40010099	WASHER, COPPER, 1.060 O.D.	1
41010035-S	AUX COOLER	1
40010021	CLAMP HOSE 5/16" X 7/8"	2
40010027-S	SILICONE SEALANT (BLACK) 3 OZ.	1
11010041	WHITE SEALANT ASSEMBLY	1

**AFTER INSTALLING THIS LUBE PUMP AND PLUMBING,  
FIND THE WIRING INSTRUCTIONS IN THE  
GENERAL INFORMATION & MOTORCOACH WIRING  
INSTRUCTION MANUAL**

## SELECTOR VALVE INSTALLATION

The selector valve is installed into the existing transmission/cooler lubrication line, which carries the fluid **from the transmission to the radiator (cooler)**. A second line (hose) normally runs alongside this line to carry the fluid from the cooler back to the transmission.

**NOTE 1:** Refer to the **DIAGRAM, page 4.**

**NOTE 2:** Some orderly planning should be given to the location of the selector valve. Consider the following:

1. Using the supplied 3/8" hose and fittings, extend the transmission lines so that the selector valve will mount within the engine compartment.
2. The valve and hoses should be located where they will not be damaged by road hazards, other moving parts, sharp edges, or hot exhaust parts. The valve can be secured by using plastic ties included in the kit.
3. Hoses should not bend too sharply causing a restriction in the fluid flow.

**NOTE 3:** **Make sure the hoses will not be damaged by road hazards, other moving parts, sharp edges, or hot exhaust parts. The valve can be secured by using plastic ties included in the kit. Also, hoses should not be bent too sharply causing a restriction in the fluid flow.**

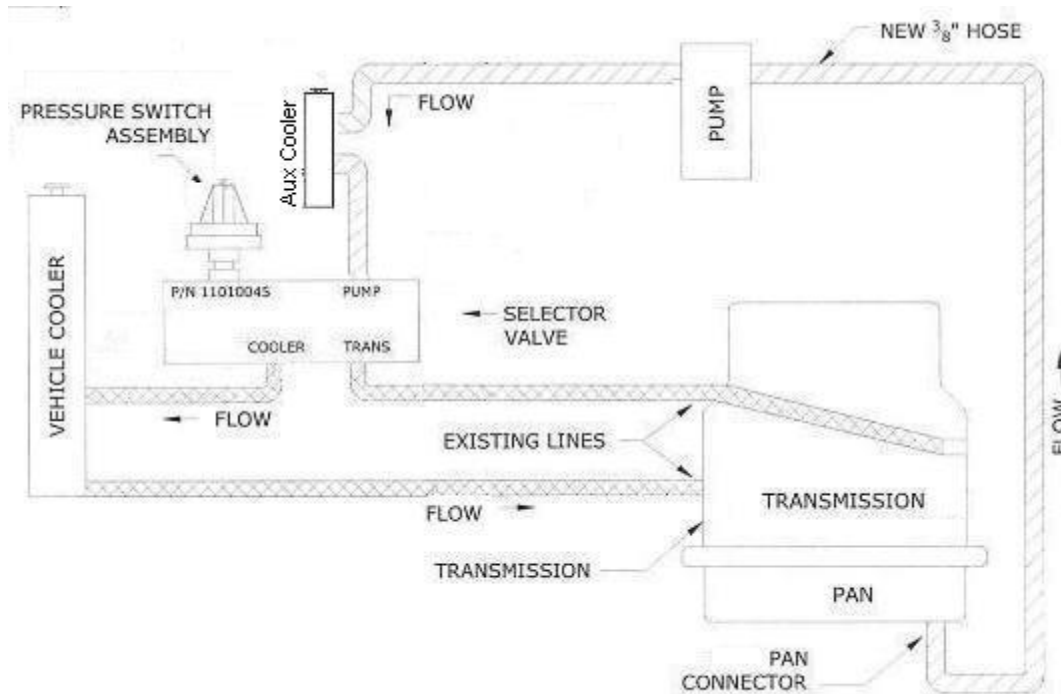
**WARNING:** **THE SELECTOR VALVE MUST BE CONNECTED INTO THE HOSE, WHICH CARRIES THE TRANSMISSION FLUID FROM THE TRANSMISSION TO THE COOLER WHEN THE VEHICLE'S ENGINE IS RUNNING AND THE TRANSMISSION IN NEUTRAL (N).**

1. To determine which hose must be used, disconnect one of the hoses from the transmission. (Expect a small amount of fluid to drain from the line).
2. Attach the 3/8" hose provided in the kit to the transmission line and arrange the hose in a container.
3. Have an assistant momentarily start the engine or crank the engine with the starter to cause fluid to flow from one or the other open ends of the hose.
4. If the fluid flows from the transmission hose, you have disconnected the proper line. If the fluid flows from the radiator hose, you have disconnected the wrong hose. Repeat Step 1.

### **CONNECTING THE PROPER HOSE TO THE SELECTOR-VALVE**

1. Determine the appropriate length of hose for selector valve.
2. Using one of the hose clamps, connect the rubber transmission hose coming from the transmission port to the “**Trans**” connection of the REMCO-selector valve.
3. Using one of the hose clamps, connect the rubber hose coming from the vehicle cooler to the “**cooler**” connection of the REMCO-selector valve.

The “**PUMP**” connection of the selector valve will later be connected to the pump.



- **INSTALLATION OF THE NISSAN PAN CONNECTOR:**

Removal of the Transmission Pan will not be required during this installation. However, it is recommended that the transmission fluid be drained from the transmission as the sump fitting in the bottom of the pan will be replaced with F03/F04 Nissan Pan fitting.

**NOTE 1:** Transmission fluid becomes contaminated during usage, and therefore, should not be re-used after it is drained from the pan. Similarly, the transmission’s oil filter should be changed every 25,000 to 40,000 driven miles. Use manufacturer’s recommendation.

**NOTE 2:** Dispose of used transmission fluid properly.

Step 1. **Replace the transmission pan plug with the Nissan Hex Pan Connector.**

(Picture of fitting on next page)



**Nissan F03/F04 Pan Fitting (Part Numbers: 40010014, 40010091, 40010099)**

**NOTE:** You will need the White Sealant Assembly (p/n 11010041) to assemble the fitting and bond it properly before installing.

### **LUBE PUMP INSTALLATION**

**WARNING:** Failure to follow the procedures listed below will void the warranty on your pump.

**LOCATION:** It is important to determine a desirable place on the vehicle to locate the lube pump. The best location may vary from vehicle to vehicle.

**NOTE 1:** Locate the pump in the upper part of the engine compartment, under the hood. This is important to keep the pump from being exposed to the weather and other harsh elements.

**NOTE 2:** Mount the pump vertically (motor down only) or horizontally to help insure no water can collect and cause failure. Pump should not be mounted in the fender well or behind the bumper. This will void the warranty.

Included in this kit is a pump mounting bracket assembly (p/n 11010047). This will allow the pump to be installed on the strut tower, the firewall or the radiator support as examples.

## INSTALLATION: (Refer to **DIAGRAM** page 4)

**NOTE 3:** When routing the 3/8” hose to the pump, selector valve and pan connector, be sure to route them where road hazards, other moving parts, sharp edges, or hot exhaust parts will not damage them.

Step 1. Mount the pump in the engine compartment. (see notes above).

### AUX COOLER INSTALLATION

**Note:** Place the Aux Cooler in a location that allows for plenty of air to pass through. Somewhere in front of the radiator would be preferred.

Step 2. Using a suitable length of 3/8” hose and one of the hose clamps, connect one end of the hose to the **output port** of the pump. Route the other end of the 3/8” hose from the **Pump** to either port of the Aux Cooler. (Refer to **diagram, page 4**). Using 1 hose clamp, connect the hose to the Aux Cooler.

Step 3. Using a suitable length of 3/8” hose and one of the hose clamps, connect one end of the hose to the other side of the Aux Cooler. Route the other end of the 3/8” hose from the **Aux Cooler** to the **Selector Valve**. (Refer to **diagram, page 4**). Using 1 hose clamp, connect the hose to the “pump” port on the selector valve.

**WARNING:** THE LINE FROM THE AUX COOLER MUST BE CONNECTED TO THE “PUMP” CONNECTION ON THE VALVE.

Step 4. Using one of the hose clamps (provided), connect one end of the 8-ft. length of the 3/8” hose to the **input side** of the lube pump. Carefully route the 3/8” hose to the Nissan Fitting on the transmission sump. Cut the hose to a suitable length.

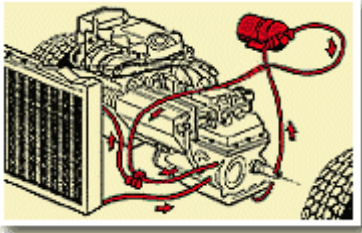
Step 5. Using one of the hose clamps connect the 3/8” hose to the Nissan Fitting sump connector. Make sure hose clamps are securely tightened on all connections.

Step 6. When all connections are complete and all hose clamps securely tightened, refill the transmission with new transmission fluid through the filler tube. Consult the vehicle Owner’s Manual for the proper type fluid to use and for the recommended procedures to make sure the proper fluid level is restored. Proper fluid level is essential for trouble-free operation of the transmission as well as the lube pump. **THE TRANSMISSION FLUID LEVEL MUST BE RE-CHECKED, AFTER INSTALLATION. WHEN THE VEHICLE IS SAFE TO RUN.**

**(If we have specific technical manuals they will be included at the end of this manual.)**

**Notes:**

**REMCO** HAS THESE PRODUCTS FOR YOUR TOWING CONVENIENCE



**REMCO'S Lube-Pump** lubricates and cools Select Front Wheel Drive, Rear-Wheel Drive, Four-Wheel Drive, and All Wheel Drive vehicles while towing.



**REMCO'S Tail Light Wiring Kit** is for easy hook up of your tail lights and turn signals for towing.



**REMCO'S 12-Volt (DC) RV Water System Pumps**

**REMCO**  
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