

PT# 450

INSTALLATION OF REMOTE POWER STEERING

WARNING!

Bleed Power Steering System Before Engine Startup

Revised 7-1-06

Initial Bleeding Procedure for March Performance Power
Steering Pumps Parts Numbers 452, 450, 9600, and 9610

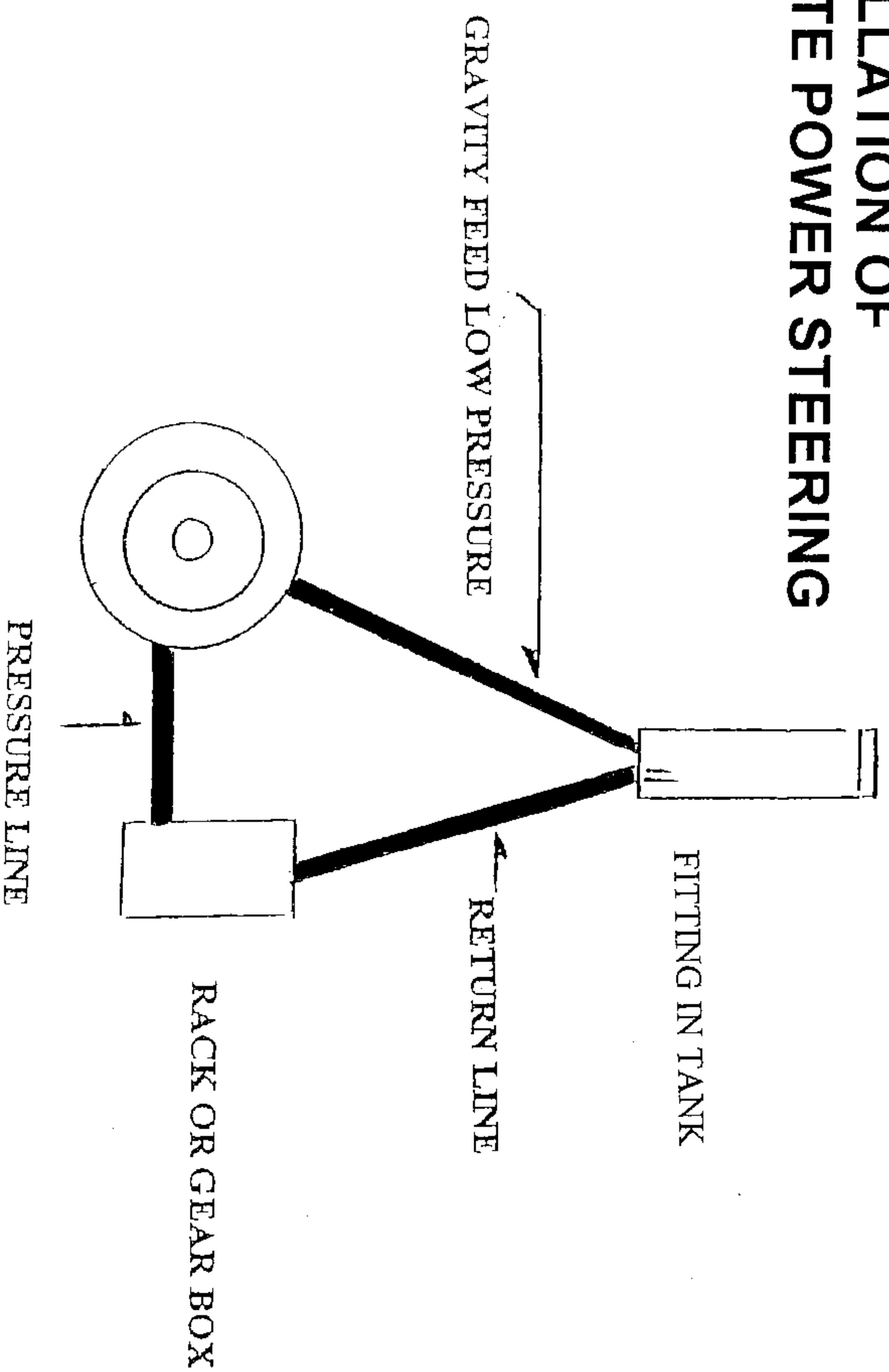
GETTING IT UP AND RUNNING

A completely new power steering system requires a different start up procedure than just replacing a worn out unit. Although power steering systems are self bleeding *it is very important that a new system NOT be run until a proper static bleeding is performed.* Any air in the system will be almost impossible to purge while the motor is running and will quickly cause the fluid to foam. Foaming can cause the reservoir to overflow and also can cause overheating of the pump with resulting damage. Any pre-running of the motor should be performed without the power steering belt attached. Dependant on if your system is a serpentine or v-belt setup this can be as simple as removing a separate belt or on serpentine systems may require using an old pump as a temporary stand-in until the final system is installed.

SERPENTINE AND V-BELT SYSTEMS

1. Fill the system with high quality fluid and let it set undisturbed for a few minutes, this will allow air bubbles to float out of the fluid. Leave the reservoir cap off. Use this time to wipe the components off in preparation for leak check and visually inspect the hose routing, belt alignment and attaching hardware.
2. After your inspection, raise the front wheels off the ground and support the vehicle. **Without starting the engine** slowly begin to cycle the steering wheel. The key here is "slowly"; about 1 revolution per 8-10 seconds. Continue to top off the fluid level at the reservoir. The key here is to keep the level full enough to keep air from being re-introduced into the system as air in the new system is purged from the pump, hoses and rack. When the level remains steady, inspect for leaks and start the engine.
3. Check the fluid level and inspect for leaks. Some vane type pumps require 1000 RPM or more to take the fluid down. Slowly cycle the steering wheel in both directions, lightly contacting the wheel stops. Continue to check the fluid level and add if necessary. If the pump begins to get noisy, turn the engine off and let the system set for 15 minutes. Air in the system will cause the pump to growl and the fluid level may rise when the engine is turned off.
4. Some systems may bleed very quickly but depending on your system type, hose length, hose routing and power steering rack unit it may be necessary to repeat the above steps until the system is operating normally. If air is still a problem after several rest periods, it may be that air is entering the system faster that it can be expelled at the reservoir fill. Look for leaks. Even the smallest of fluid leaks can be a source of massive amounts of air entering the system.
5. Always test drive the vehicle, making sure it is safe.

PT# 450 INSTALLATION OF REMOTE POWER STEERING





LIMITED WARRANTY

March Performance warrants to the original retail purchaser that for a period of ninety (90) days from the date of purchase, March Performance will repair or replace, at their option, any Product, which is found to be defective in material or workmanship.

Exclusions from Warranty Coverage

March Performance does not warrant any Product that is damaged from abuse, misuse or misapplication or not used for its intended purposes. This Limited Warranty does not cover or apply to any damage or loss sustained to the engine or any other parts which may have been caused by the defective Product and does not cover or apply to any personal injury, labor charges or any other incidental costs for damages caused by the defective Product. THIS IS THE ONLY EXPRESS WARRANTY GIVEN WITH RESPECT TO YOUR PRODUCT. ALL OTHER EXPRESS WARRANTIES, GUARANTEES, OR STATEMENTS REGARDING THE PRODUCT, WHETHER WRITTEN OR VERBAL, ARE HEREBY DEEMED NULL AND VOID AND OF NO EFFECT. Normal wear and tear and damage to the Product not caused by March Performance are also excluded from this Warranty.

DISCLAIMER OF OTHER WARRANTIES

EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY WHETHER OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR WARRANTY, SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY WILL LAST SO THAT THE PRECEDING LIMITATION MAY NOT APPLY TO YOU.

Limitation on Remedies

REPAIR OR REPLACEMENT AS PROVIDED IN THIS WARRANTY IS YOUR EXCLUSIVE REMEDY. MARCH PERFORMANCE SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGE FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THE PRODUCT. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OF CONSEQUENTIAL DAMAGES SO THE PROCEEDING LIMITATION OR EXCLUSIONS MAY NOT APPLY TO YOU. YOU HAVE NO RECOURSE OR REMEDY FOR DAMAGE OR DEFECT CAUSED BY MISUSE, ABUSE OR NEGLIGENCE. THIS WARRANTY GIVES YOU SPECIFIC RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH MAY VARY FROM STATE TO STATE.

Your Responsibilities:

1. Use and install the Product only for its intended purpose.
2. To avail yourself of this Limited Warranty, return the Product with a copy of the paid receipt, postage paid to:
**MARCH PERFORMANCE
16160 PERFORMANCE WAY
NAPLES, FL 34110**
3. When returning the Product, you must follow the directions set forth on the Warranty/Return Form on the reverse side of this Limited Warranty. If you no longer have the Warranty/Return Form, one may be obtained by contacting March Performance during normal business hours at: (888) 729-9070.
4. Shipping and/or transportation costs returning the Product to March Performance and any damage caused during shipping are your responsibility. March Performance will pay for shipping and/or transportation costs incurred in returning the Product to you.

WARRANTY/RETURNS FORM

All products returned for any reason must reference an authorization number (RGA). The RGA number is obtained by calling place of purchase during normal business hours. Any product returned without the **RGA # written on outside of box next to the return shipping label** on the outside of the box **will be refused**.

All returns to March Performance must be via UPS only and packaged properly in the original carton. Return freight charges are the responsibility of the customer unless the product was shipped in error.

Distributors are entitled to two (2) inventory adjustments per year with a tow (2)-for-one (1) purchase requirement or a twenty percent (20%) restock/rework fee will be applied.

Products which are returned to March Performance as a result of the customers error in ordering, may be charged a twenty percent (20%) restocking fee.

Refunds will not be made on any product after it is mounted or installed.

A replacement product will not be sent and a billing adjustment will not be made unless or until the product is received and inspected by March Performance.

If the product is being returned to March Performance for a warranty claim, it must be received by March Performance no later than ninety (90) days after the date it was purchased. **The customer must include a written statement describing the alleged product defect.** The complete Limited Warranty is set forth on the reverse side.

(Please complete the information below, detach and include with the returned product.)

RGA# _____ Purchaser's full name & address _____

Original Purchase Invoice No. _____ Date of Purchase _____

Product being returned: _____

Reason for return: _____

(If additional space is needed, please attach a separate sheet.)