



# **YANMAR®**

## **PARTS AND OWNER'S MANUAL**

**POWER STEERING UNIT**

**FOR YM180(D) AND YM187(D)**

**REFERENCE YPS-186 DOCUMENT  
FOR ADDED INFORMATION**

**OPTIONAL EQUIPMENT  
PH8139 FLOW REGULATOR 2.0 GPM**



THIS SAFETY ALERT SYSTEM IDENTIFIES IMPORTANT  
SAFETY MESSAGES IN THIS MANUAL.

# YANMAR

**Yanmar Power Steering**  
In-line, Fail Safe, Hydraulic Actuator



# Yanmar Power Steering

## In-line, Fail Safe, Hydraulic Actuator

(Dealer Installed Accessory)



Power steering for your Yanmar tractor becomes increasingly important to you as you add front and rear implements. Getting the most out of your Yanmar tractor, with less hard work for you, means greater efficiency, faster and safer working conditions – and personal satisfaction.

**Failsafe Power Steering.** Yanmar power steering utilizes an in-line hydraulic actuator that assures you manual control in case of hydraulic failure.

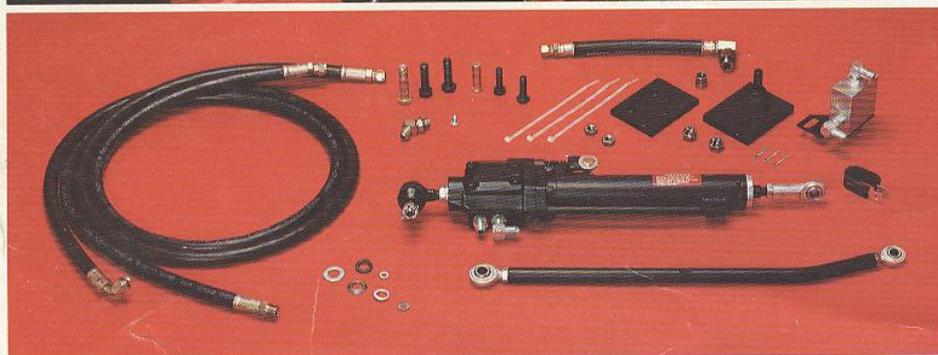
**Powered by Existing Tractor Pump.** The power steering accessory works off the integral Yanmar hydraulic pump. No need for auxiliary pump or installation costs.

**Installs on Tractors with or without Implements.** Yanmar power steering does not interfere with the installation or operation of your choice of implements and accessories.

**Actuator and Control Valve Advantages.** Wheel shock loads are not transmitted to driver through steering column. Front wheels maintain direction when steering wheel is released. Vibration or shock will not activate the power steering inadvertently.

### SPECIFICATIONS

Flow Divider:  
Standard Setting 1.5 gal. per minute  
Cylinder (Actuator):  
1½" dia. bore, ¾" dia. rod  
Valve Type:  
Patented Rotary Selector  
Hydraulics:  
Pressure preset at factory to protect tractor hydraulic system.



**Your Yanmar Dealer Offers  
You a World of Difference**

- Expert service and repair
- Fully stocked parts department
- Skilled power steering technicians
- Satisfied customers



**Tractors and Implements  
A world of difference**

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Your Authorized Yanmar Tractor and Implement Dealer

**Potestio Brothers**  
6232 W. Parker Rd.  
Parker, Colorado 80134  
841-2299 or 841-5173



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## SAFETY PRECAUTIONS

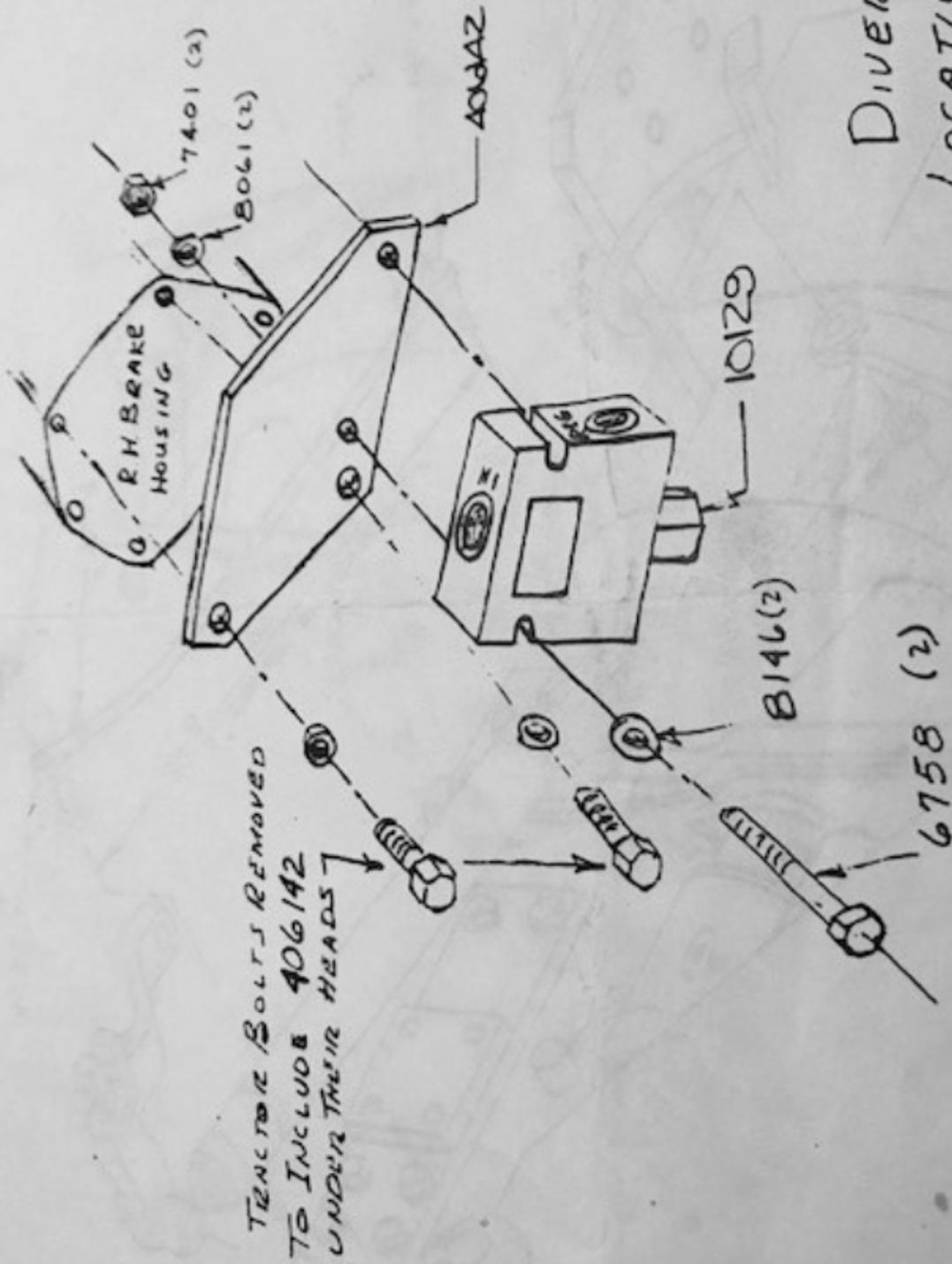


In addition to all of the safety precautions listed in your tractor Operator's Manual, the following items must be carefully followed:

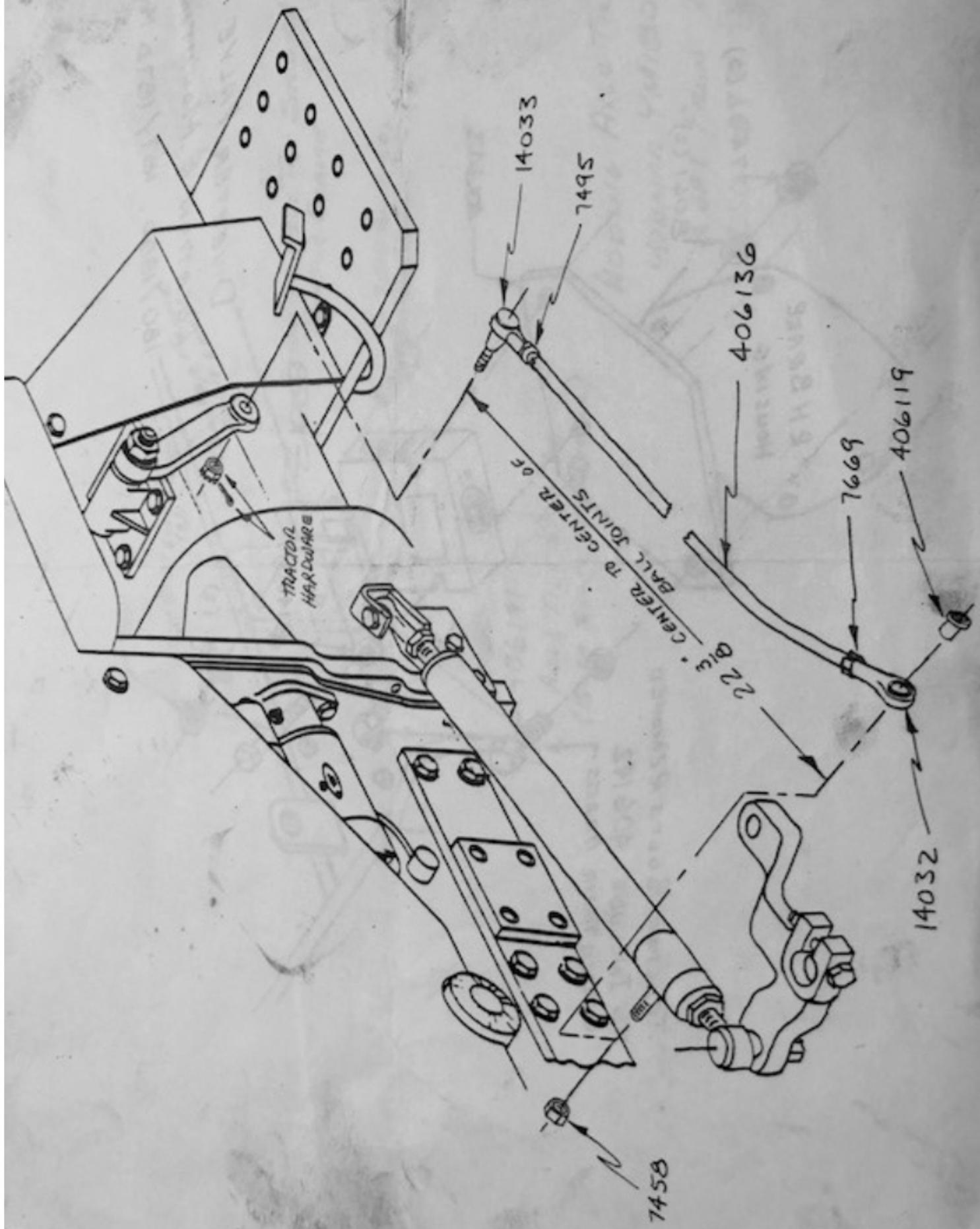
1. Become familiar with your equipment and its controls by practicing on a smooth surface or roadway until you feel that you are comfortable with your new Power Steering Unit.
2. Engine stopping will cause the loss of power steering and manual steering will have to be used. This control is much more difficult. In the event of a failure in the hydraulic system the same will hold true.
3. Do not place your hands or other pieces of equipment close to the power steering unit while it is in operation or while the engine is running.
4. While moving, always avoid turning your wheels suddenly as this may cause the tractor to roll over.
5. Visually check your power steering system daily for fluid leaks, broken, missing or malfunctioning parts and make the necessary repairs. If assistance is needed, see your dealer. Never tighten hydraulic fittings or work on the unit while the engine is running.
6. Check the hydraulic system before each use for signs of leaks or wear. **ESCAPING HYDRAULIC FLUID, UNDER PRESSURE, CAN BE VERY DANGEROUS.** Hydraulic fluid escaping under pressure can have enough force to penetrate the skin or destroy eyesight. Hydraulic fluid may also cause infection of a minor cut or opening in the skin. If injured by escaping fluid, **GET MEDICAL ATTENTION AT ONCE.** Make sure that all the connections are tight and that all hoses are in good condition before applying pressure to the system. Relieve all pressure before disconnecting the lines or performing any other work on the hydraulic system. To locate small leaks use a small piece of paper, cardboard or wood. . . **NEVER USE YOUR HANDS.**
7. **KEEP YOUR EQUIPMENT CLEAN.** This will not only allow you to readily observe any signs of equipment wear or impending failure, but will also help in avoiding falls due to slippage on grease or oil.
8. Know your work area. Inspect for hidden holes, rocks, drop-offs or other obstacles and conditions which cause tractor to overturn.
9. Check transmission oil level weekly and refill if necessary.
10. Do not allow anyone to touch the steering controls while the unit is being lubricated or repaired.
11. Before starting the engine, make sure helper or observers stand clear of equipment. **NEVER** start the engine until the operator is properly seated on tractor, gears are in neutral position and parking brake is on.
12. **DO NOT TAMPER** with the relief valve setting. The relief valve is pre-set at the factory for maximum safety and steering ease. Altering setting may cause mechanical failure resulting in loss of steering and serious bodily injury to operator or others in area.
13. It is the **TRACTOR OWNERS RESPONSIBILITY** to make sure that all operators of the tractor are aware of the safe way to use the equipment and **ALL ITS CONTROLS.**
14. If safety decals become illegible or torn off, they should be replaced. See your tractor dealer for replacements.
15. This unit operates under high pressure. All parts are highly stressed and must be replaced with factory parts. The warranty is void if any parts other than factory parts are used.

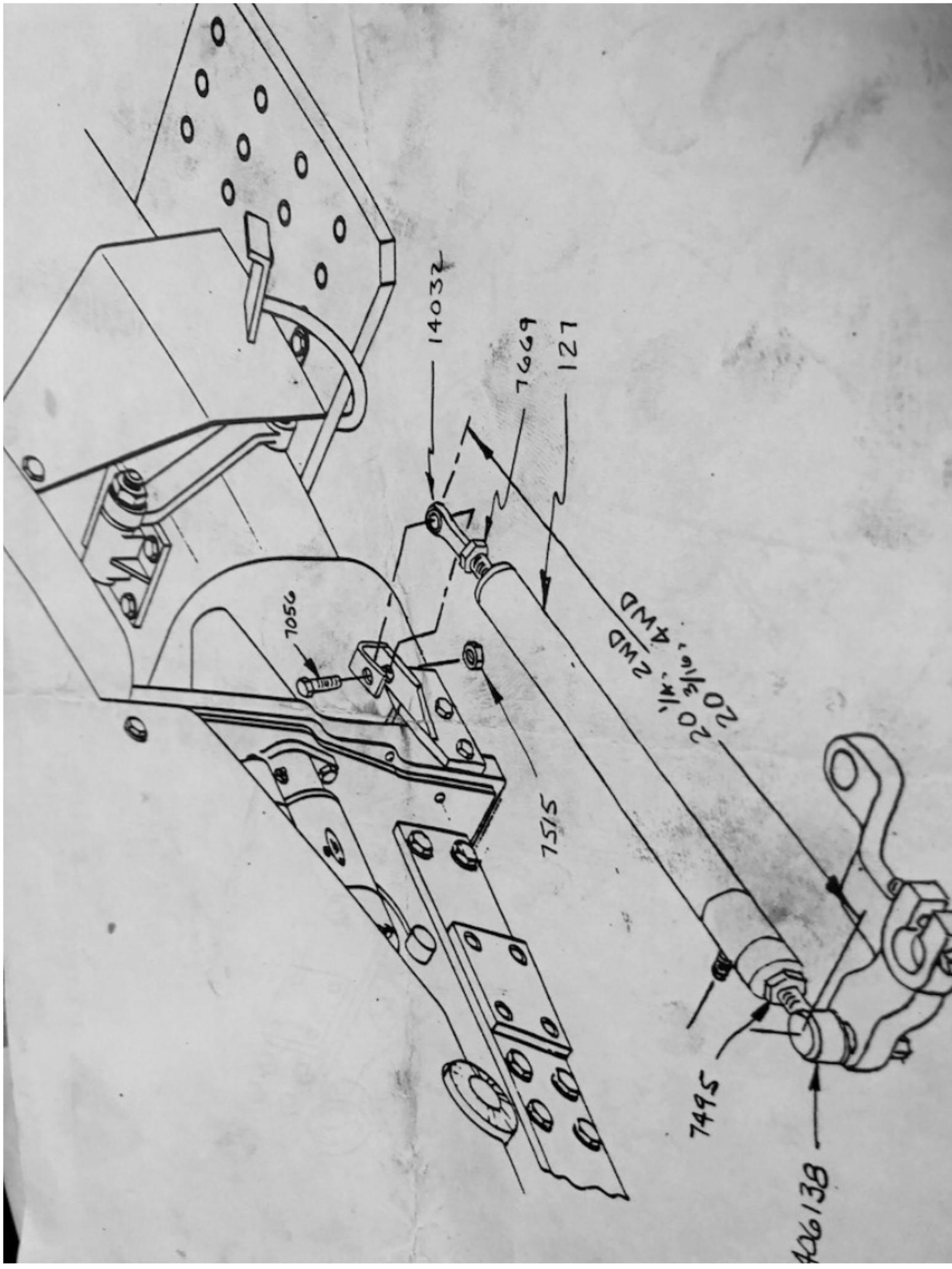


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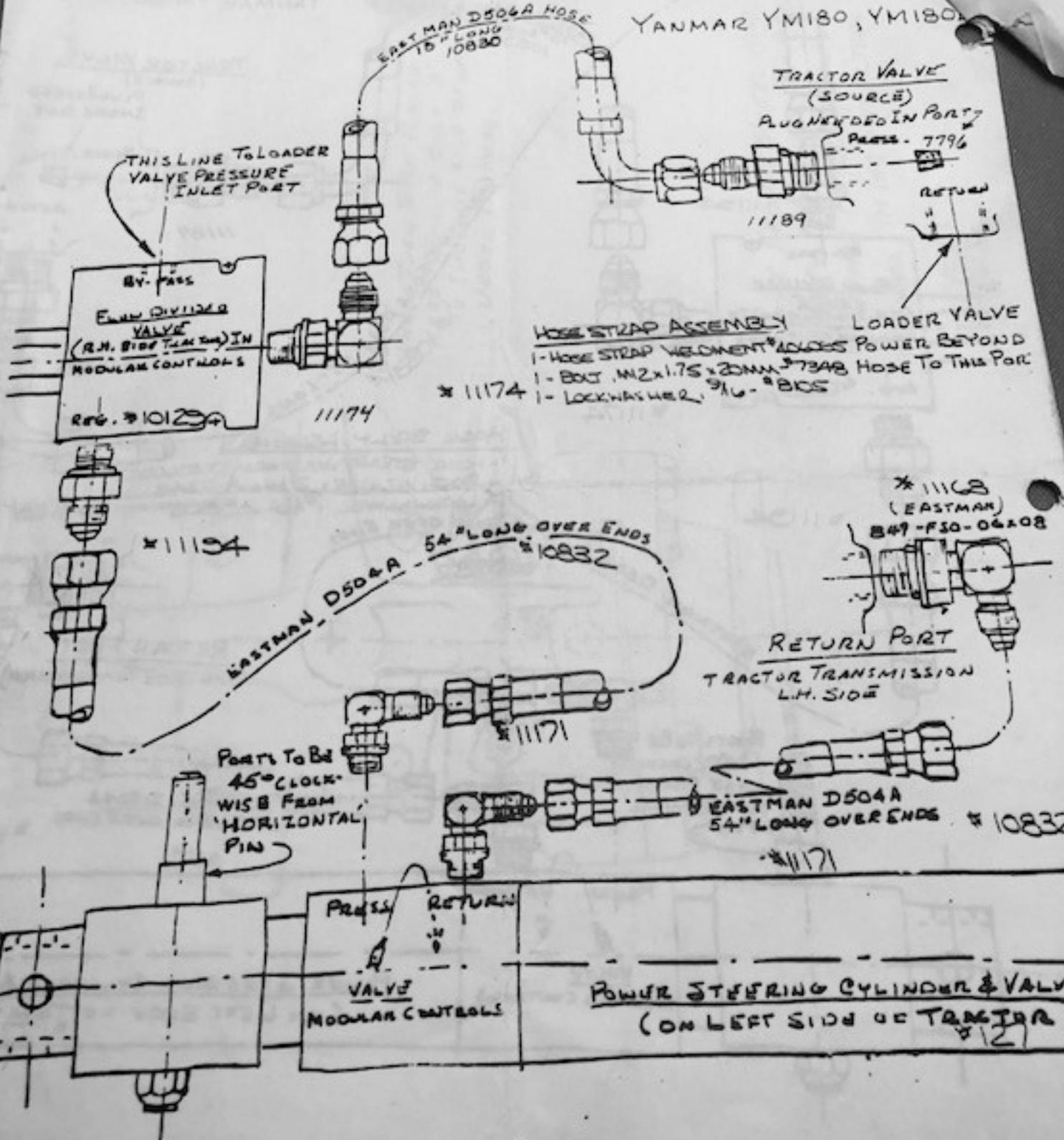
DIVERTER VALVE  
 LOCATION & MOUNTING.  
 180/180D, 187/187D MODELS





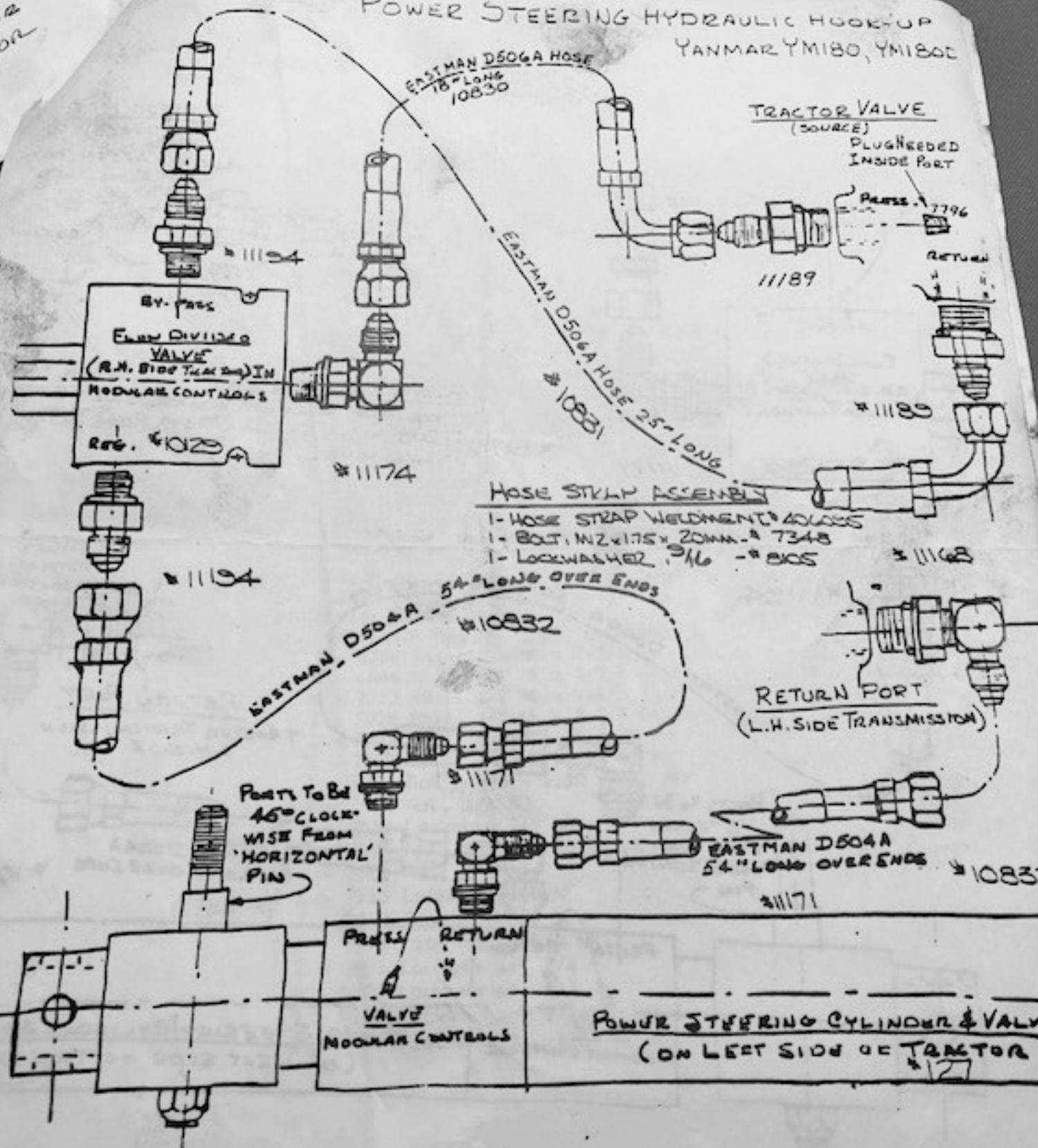
# POWER STEERING HYDRAULIC HOOK-UP

YANMAR YM180, YM180A

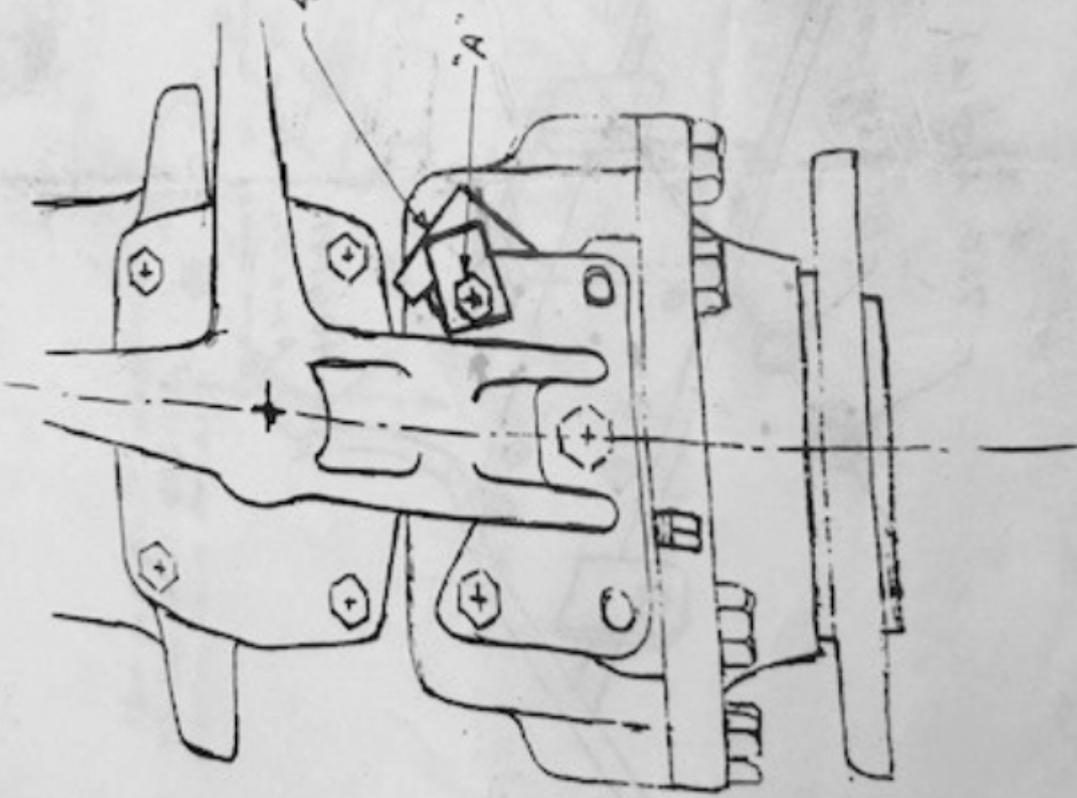


WITH LOADER

POWER STEERING HYDRAULIC HOOK-UP  
YANMAR YM180, YM180C

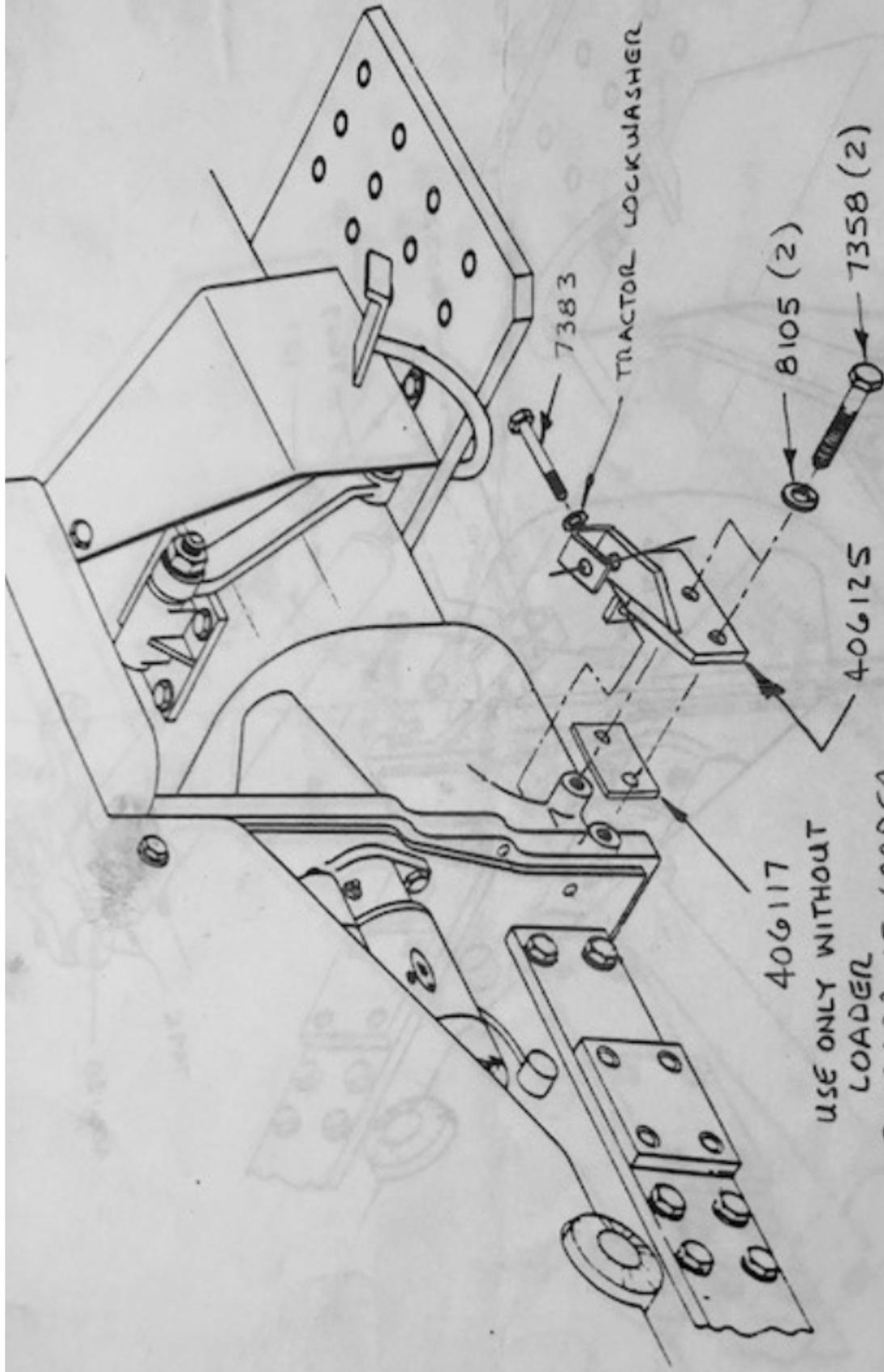


WITHOUT LOADER



406130  
 WHEEL TURN STOP PLACED  
 HERE. REMOVE BOLT "A"  
 TO INCLUDE AXLE STOP  
 UNDER ITS HEAD.

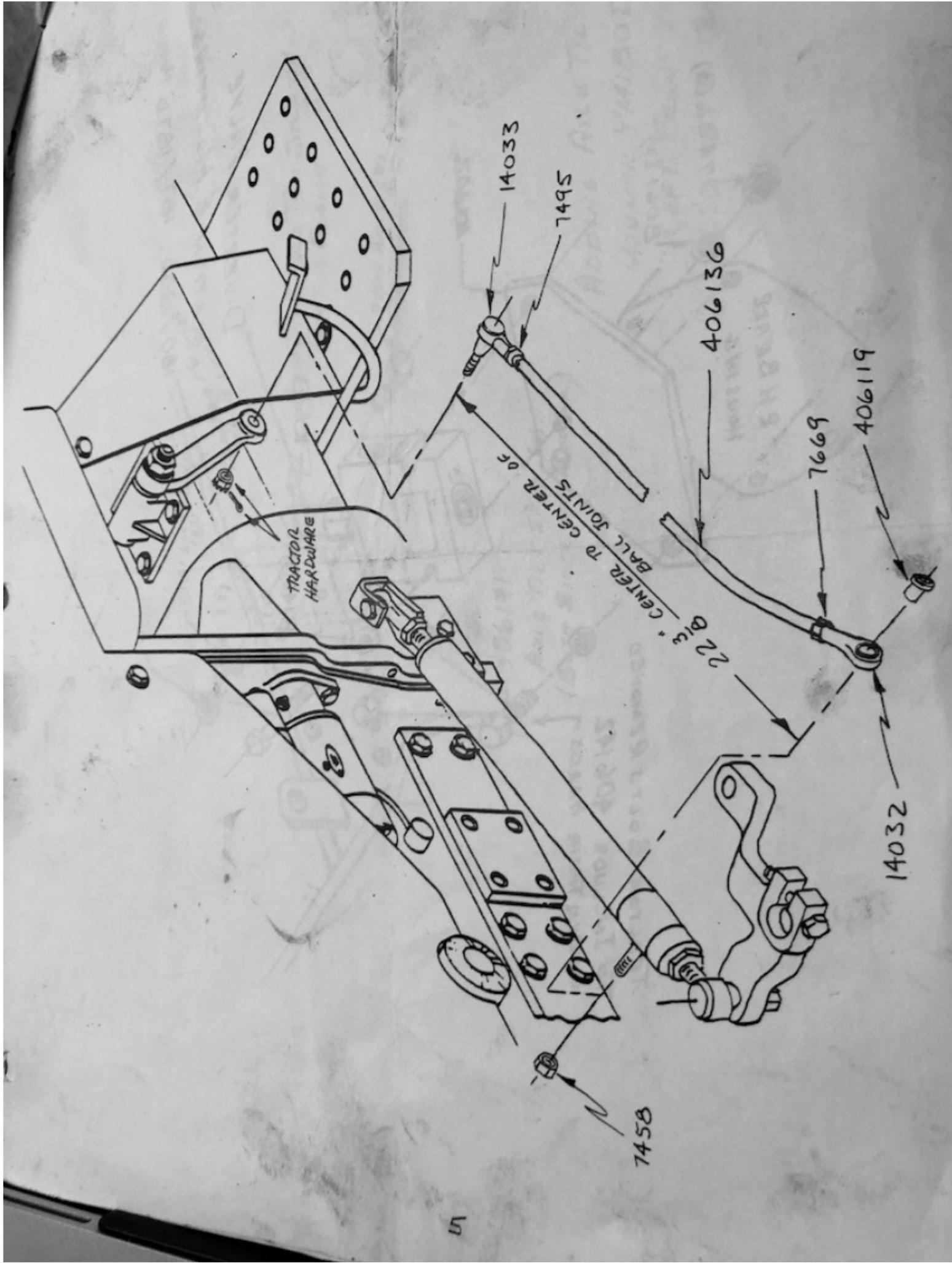
LEFT FRONT WHEEL HUB.  
 WHEEL REMOVED. TOP VIEW.  
 YANMAR YM180D TRACTOR  
 YANMAR YM187D TRACTOR

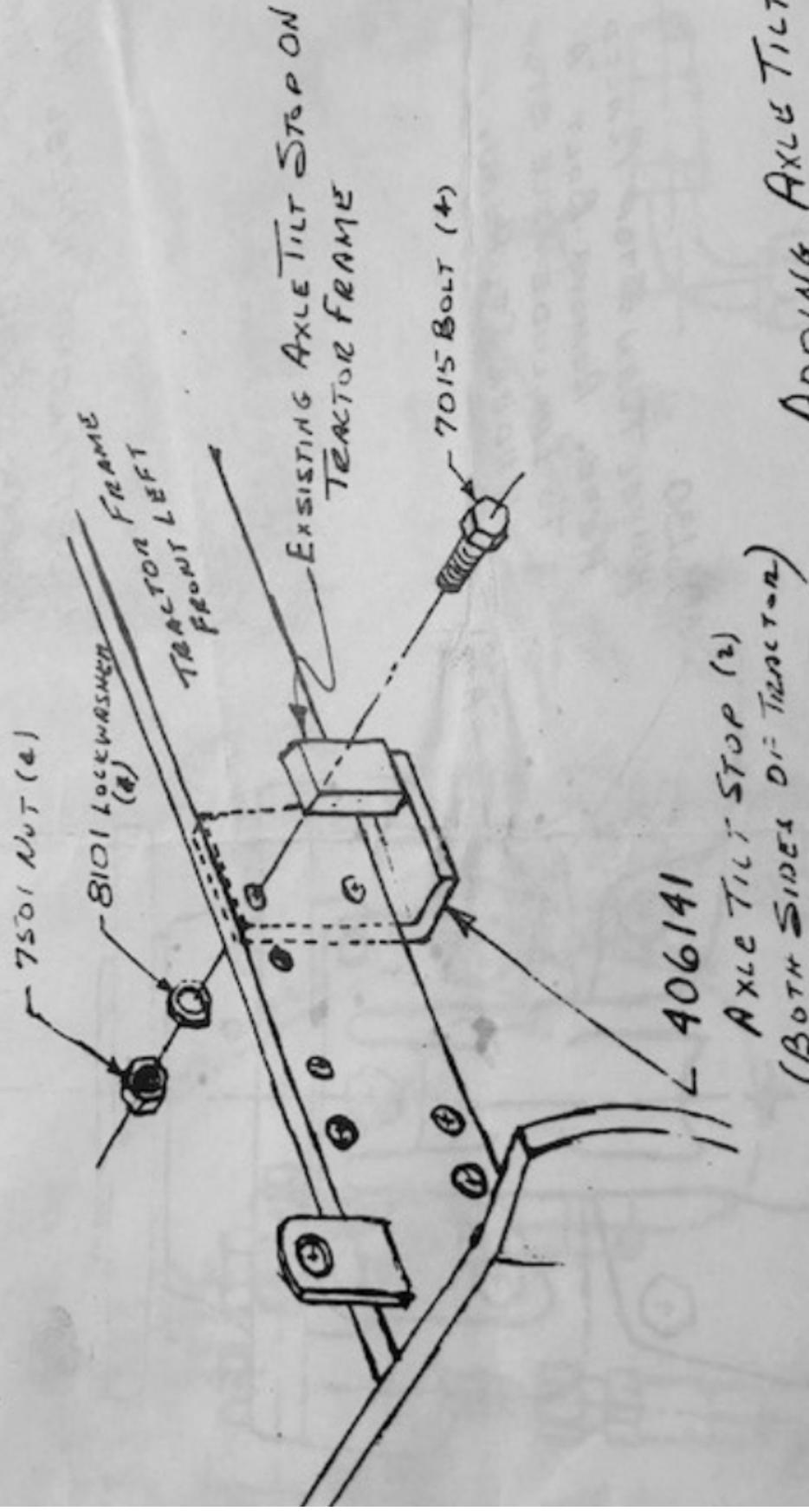


USE ONLY WITHOUT  
 LOADER  
 DISCARD IF LOADER  
 IS INSTALLED ON  
 TRACTOR

ALL FORCES ARE TRANSMITTED  
 TO THIS POINT, MAKE SURE BRACKET FITS EXACTLY







ADDING AXLE TILT STOP  
 YANMAR YM180D TRACTOR  
 LEFT FRONT VIEW  
 ALSO 187D TRACTOR MODEL

