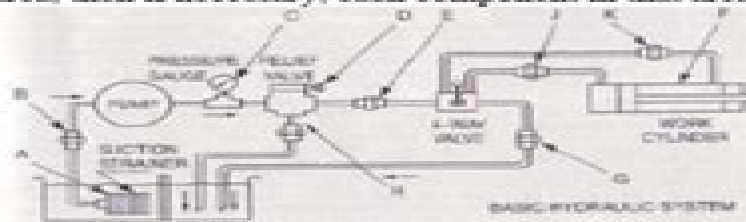


# Hydraulic Troubleshooting Guide

## Hydraulic Troubleshooting

Many of the failures in a hydraulic system show similar symptoms: a gradual or sudden loss of high pressure, resulting in loss of power or speed in the cylinders. In fact, the cylinders may stall under light loads or may not move at all. Often the loss of power is accompanied by an increase in pump noise, especially as the pump tries to build up pressure. Any major component (pump, relief valve, directional valve, or cylinder) could be at fault. In a sophisticated system, other components could also be at fault, but this would require the services of an experienced technician. By following an organized step-by-step testing procedure in the order given here, the problem can be traced to a general area, then if necessary, each component in that area can be tested or replaced.



### STEP 1 - Pump Suction Strainer ...

Probably the trouble encountered most often is cavitation of the hydraulic pump inlet caused by restriction due to a dirt build-up on the suction strainer. This can happen on a new as well as an old system. It produces the symptoms described above: increased pump noise, loss of high pressure and/or speed. If the strainer is not located in the pump suction line it will be found immersed below the oil level in the reservoir (point A). Some operators of hydraulic equipment never give the equipment any attention or maintenance until it fails. Under these conditions, sooner or later, the suction strainer will probably become sufficiently restricted to cause a breakdown of the whole system and damage to the pump. The suction strainer should be removed for inspection and should be cleaned before re-installation. Wire mesh strainers can best be cleaned with an air hose, blowing from inside out. They can also be washed in a solvent which is compatible with the reservoir fluid. Kerosene may be used for strainers operating in petroleum base hydraulic oil. Do not use gasoline or other explosive or flammable solvents. The strainer should be cleaned even though it may not appear to be dirty. Some clogging materials cannot be seen except by close inspection. If there are holes in the mesh or if there is mechanical damage, the strainer should be replaced. When reinstalling the strainer, inspect all joints for possible air leaks, particularly at union joints (points B, E, G, H, J, and K). There must be no air leaks in the suction line. Check the reservoir oil level to be sure it covers the top of the strainer by at least 3" at minimum oil level, with all cylinders extended. If it does not cover to this depth there is danger of a vortex forming which may allow air to enter the system when the pump is running.

### STEP 2 - Pump and Relief Valve ...

If cleaning the pump suction strainer does not correct the trouble, isolate the pump and

# Definitive Guide To Hydraulic Troubleshooting

**Neil Schultz**



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**The Hydraulic Troubleshooting Handbook** Brendan Casey, 2014 Explains the easiest way to conquer the troubleshooting process the simple 12 step procedure that will transform you into a reliable and effective troubleshooter no matter what your level of experience This is the master secret of knowing what to do and when to do it **Aviation Support Equipment Technician H 3 & 2** United States. Naval Training Command, 1972 In this adaptation of a classic folksong the narrator's aunt brings back various objects from her travels Aviation Support Equipment Technician M 3 & 2, 1983 **A Guide to the Evaluation of Educational Experiences in the Armed Services** American Council on Education, 1996 **The Complete Guide to Motorcycle Repair and Maintenance** Neil Schultz, 1977 Organizational, direct support and general support maintenance manual, 1985 Organizational, Direct Support and General Support Maintenance Manual: Truck Tractor, Yard Type, 43,500 LB GVW, DED, 4x2, Army Model M878A1 (Ottawa Model 50) (NSN 2320-01-121-2102), Aviation Unit and Intermediate Maintenance Manual, 1989 **Organizational, direct support, and general support maintenance manual (including repair parts and special tools list)**, 1989 **A Guide to the Evaluation of Educational Experiences in the Armed Services**, 2002 *Bowker's Complete Video Directory*, 1998, 1998 **Hydraulics**, 1982 Covers hydraulics as normally used on small equipment such as lawn garden tractors small utility tractors skid steer loaders It discusses basic principles of hydraulics then expands into typical systems components Gives tips on maintenance troubleshooting It provides the reader with a list of skills knowledge that should be learned with each chapter CONTENTS Basic hydraulic theory basic hydraulic circuits hydraulic pumps hydraulic valves hydraulic cylinders hydraulic filters hydraulic oil coolers hoses lines couplers general maintenance troubleshooting *Catalog of Copyright Entries. Third Series* Library of Congress. Copyright Office, 1976 **Maintaining Excellence** Harold J. Clapp, Canada-New Brunswick Cooperation Agreement on Forest Development 1989-1994, Canada. Forestry Canada. Maritimes Region, Canada/Nova Scotia Cooperation Agreement for Forestry Development, 1991-1995, 1993 This document is an illustrated guide for small independent forestry contractors in the Maritime Provinces to help them manage the maintenance of their equipment The first section examines the management of maintenance focusing on operators and contractors as the most valuable maintenance resource The second section covers maintenance infrastructure and the factors that contractors must consider when putting a maintenance infrastructure in place Section three describes procedures for preventive maintenance strategies for troubleshooting and repairing problems and solving maintenance problems by learning from past mistakes and by modifying equipment to suit requirements Other sections cover scheduled servicing record keeping including a review of software suitable for small forestry contractors and the environmental aspects of maintenance **A Guide to Educational Programs in Noncollegiate Organizations**, 1978 *Resources in Education*, 1985 **Power Engineering**, 1973 **ERIC Educational Documents Index, 1966-1969: Minor descriptors. Author index** CCM

Information Corporation,1970      **Hydraulic Technician Handbook** Mr Saravanakumar Thangaraj,2025-11-15 Hydraulic Technician Handbook is a comprehensive and easy to understand reference book created for technicians students and engineers who work with hydraulic systems in industrial plants heavy equipment manufacturing and maintenance fields This handbook covers all essential areas of hydraulics including pump operations valves actuators cylinders hoses fittings hydraulic oil specifications pressure control flow management contamination control preventive maintenance and troubleshooting techniques The explanation is simple practical and supported with real world examples from industries such as construction automotive automation marine and manufacturing Whether you re maintaining heavy machinery diagnosing hydraulic failures or learning the fundamentals of fluid power this book provides all the knowledge needed to work confidently with hydraulic equipment      ERIC Educational Documents Index, 1966-69: Major descriptors ,1970

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