#### SYSTEM FOUR-EXTERNAL EQUIPMENT

This system is used when the tractor is required to operate external hydraulic rams. As these rams do not require any form of automatic control a raise, hold and lower system is required. This system is obtained by discomnecting the flexible cable, so that the depth control valve is permanently closed, and the system controlled by the two pump valves.

When the flexible cable J is disconnected the operating lever N is released and the depth control valve F is closed. Placing the control lever A in the raise' position closes the two pump valves D and E, so that pump output flows through the three-way valve and into the external ram. When the control lever is moved into the 'hold' position the abutment screw B contacts the push rod C and opens the pump valve D. This removes the load on the pump, by allowing pump output to return to the reservoir through valve D but retains oil in the system, to hold

the attachment stationary, due to valves E and O being closed.

When the control lever is pushed forward into the 'lower' position, the abutment screw B opens both pump valves D and E. Pump output then returns to the reservoir through valve D and the attachment is lowered, due to oil in the system being returned to the reservoir through valve E.

If the linkage is required to be stowed in the raised position when the external equipment is being operated, the striker arm R must be disconnected from the ramshaft by means of the override control. Otherwise the lever S will be tripped into the hold position as the ramshaft turns into the raised position and valve D will be opened. Pump output will then return to the reservoir through valve D and no pressure will be available to raise the attachment.

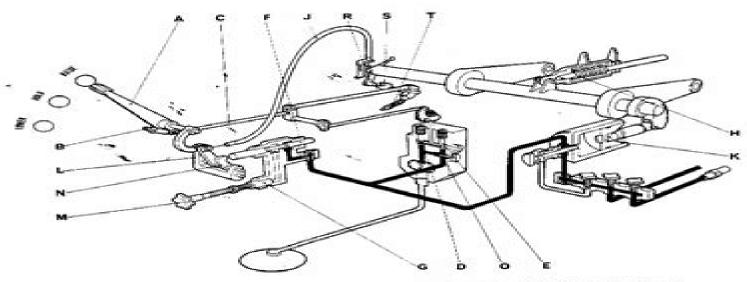


Fig. 4. OPERATION OF THE SYSTEM WHEN USING EXTERNAL HYDRAULIC EQUIPMENT

- A. Control Lever
- per Control or service
- 8. Abusment Screw
- C. Push Red

- D. Control Valve
- E. Leak-Off Valve
- F. Depth Control Valve
- J. Flexible Cable

- N. Operating Lever
- O. Non-Return Valve
- B. Striker Arm

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## **Table of Contents David Brown 990 Hydraulics Manual**

- 1. Understanding the eBook David Brown 990 Hydraulics Manual
  - o The Rise of Digital Reading David Brown 990 Hydraulics Manual
  - Advantages of eBooks Over Traditional Books
- 2. Identifying David Brown 990 Hydraulics Manual
  - Exploring Different Genres
  - o Considering Fiction vs. Non-Fiction
  - $\circ \ \ Determining \ Your \ Reading \ Goals$
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an David Brown 990 Hydraulics Manual
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from David Brown 990 Hydraulics Manual
  - Personalized Recommendations
  - o David Brown 990 Hydraulics Manual User Reviews and Ratings
  - David Brown 990 Hydraulics Manual and Bestseller Lists
- 5. Accessing David Brown 990 Hydraulics Manual Free and Paid eBooks
  - o David Brown 990 Hydraulics Manual Public Domain eBooks
  - o David Brown 990 Hydraulics Manual eBook Subscription Services
  - David Brown 990 Hydraulics Manual Budget-Friendly Options
- 6. Navigating David Brown 990 Hydraulics Manual eBook Formats
  - o ePub, PDF, MOBI, and More
  - o David Brown 990 Hydraulics Manual Compatibility with Devices
  - David Brown 990 Hydraulics Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of David Brown 990 Hydraulics Manual
  - Highlighting and Note-Taking David Brown 990 Hydraulics Manual
  - o Interactive Elements David Brown 990 Hydraulics Manual
- 8. Staying Engaged with David Brown 990 Hydraulics Manual

- o Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers David Brown 990 Hydraulics Manual
- 9. Balancing eBooks and Physical Books David Brown 990 Hydraulics Manual
  - Benefits of a Digital Library
  - o Creating a Diverse Reading Collection David Brown 990 Hydraulics Manual
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine David Brown 990 Hydraulics Manual
  - Setting Reading Goals David Brown 990 Hydraulics Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of David Brown 990 Hydraulics Manual
  - Fact-Checking eBook Content of David Brown 990 Hydraulics Manual
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - $\circ \ \ Integration \ of \ Multimedia \ Elements$
  - Interactive and Gamified eBooks

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