



Hein-Werner
Operator's Manual

C10 C10HD & C12
Hydraulic Excavator

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HW-O-C10+

Operator's Manual

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Hein-Werner Hydraulic Excavator Models C-10, C-10HD and C-12

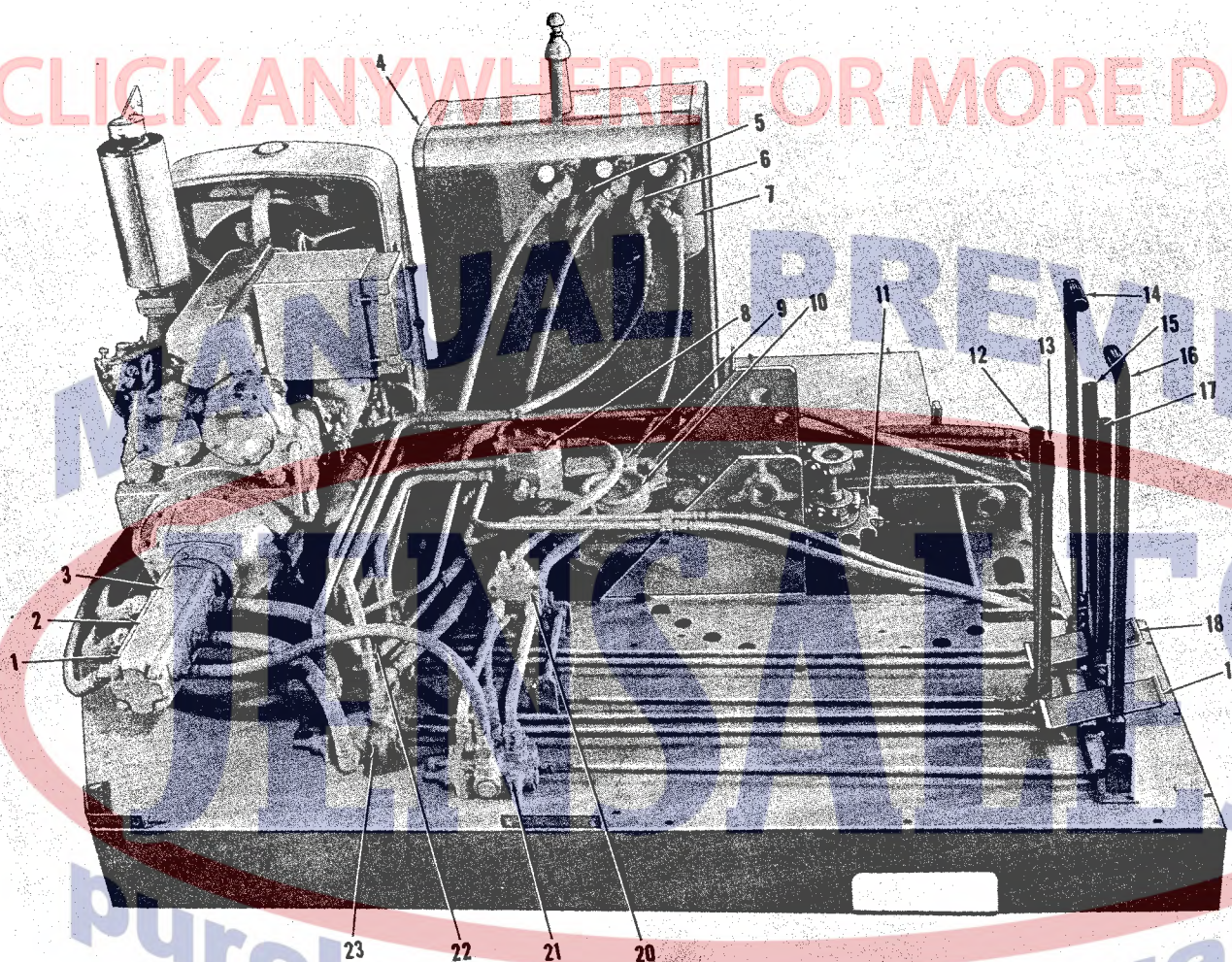
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1. Swing system hydraulic pump section
2. Dipstick and propel system hydraulic pump section
3. Boom, propel, and bucket system hydraulic pump section
4. Hydraulic reservoir
5. Boom, propel, and bucket system filter
6. Dipstick and propel system filter
7. Swing system hydraulic motor
8. Swing system hydraulic motor
9. House brake cylinder
10. House brake drum
11. Propel system chain driven sprocket

12. Speed travel lever
13. Power travel lever
14. Boom control lever
15. Bucket control lever
16. Swing control lever
17. Dipstick control lever
18. Bucket control foot pedal
19. Dipstick control foot pedal
20. Swing system relief valve
21. Swing system control valve
22. Boom, propel, and bucket system control valve
23. Dipstick and propel system control valve

Figure 1. Machinery Platform

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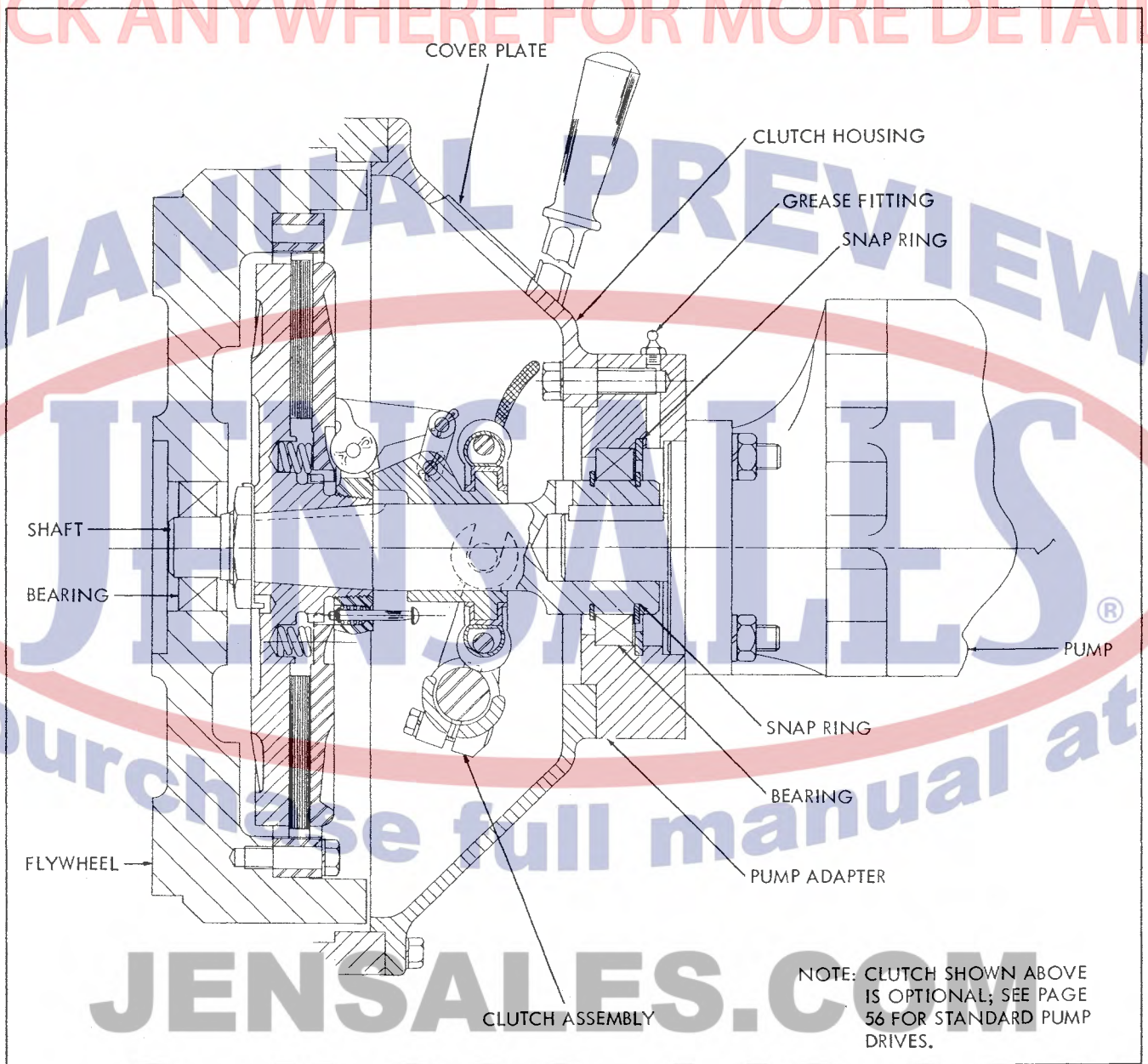


Figure 2. Cross-Sectional View of Clutch

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SECTION II

BASIC PRINCIPLES OF OPERATION

SWING SYSTEM

The swing system gear box is driven by a hydraulic motor to provide unlimited swing in either direction. The swing system is powered through the single spool control valve by the pump section furthest from the engine (see figure 3). When the swing system is not in use, oil flows without restriction through the control valve and filter to the reservoir. Whenever the swing system is in use, the "house brake" cylinder is actuated to release the "house brake". The swing system is protected against overloading by a cushioning or cross-over relief valve which protects the swing mechanism from overloading.

DIPSTICK AND PROPEL SYSTEM

The dipstick and propel circuits are powered through the two spool control valve by the center pump section (see figure 4). When the dipstick or propel systems are not in use, oil flows without restriction through the control valve and filter to the reservoir. When either circuit is in use, the control valve relief protects that circuit from being overloaded by limiting pressure to a specified maximum. An in-line relief valve protects against overloading by allowing the dipstick to open when the dipstick is loaded as a result of leverage caused by working of the boom or bucket. A cushioning valve protects the propel motor from overloading due to external reasons.

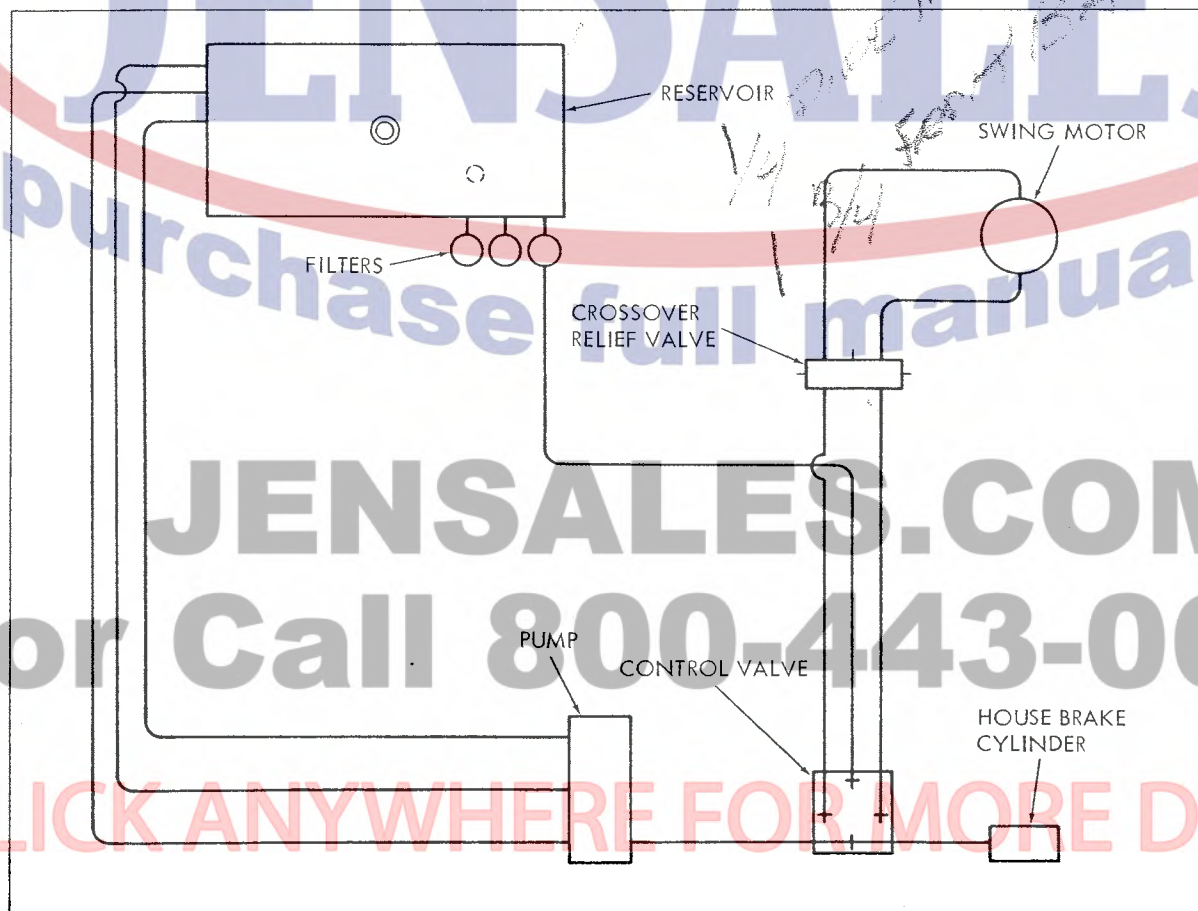


Figure 3. Swing System Hydraulic Schematic

