

CED-52

SERVICE and PARTS MANUAL

for

SERIES 10, 10HD AND 12HD

CRAWLERS

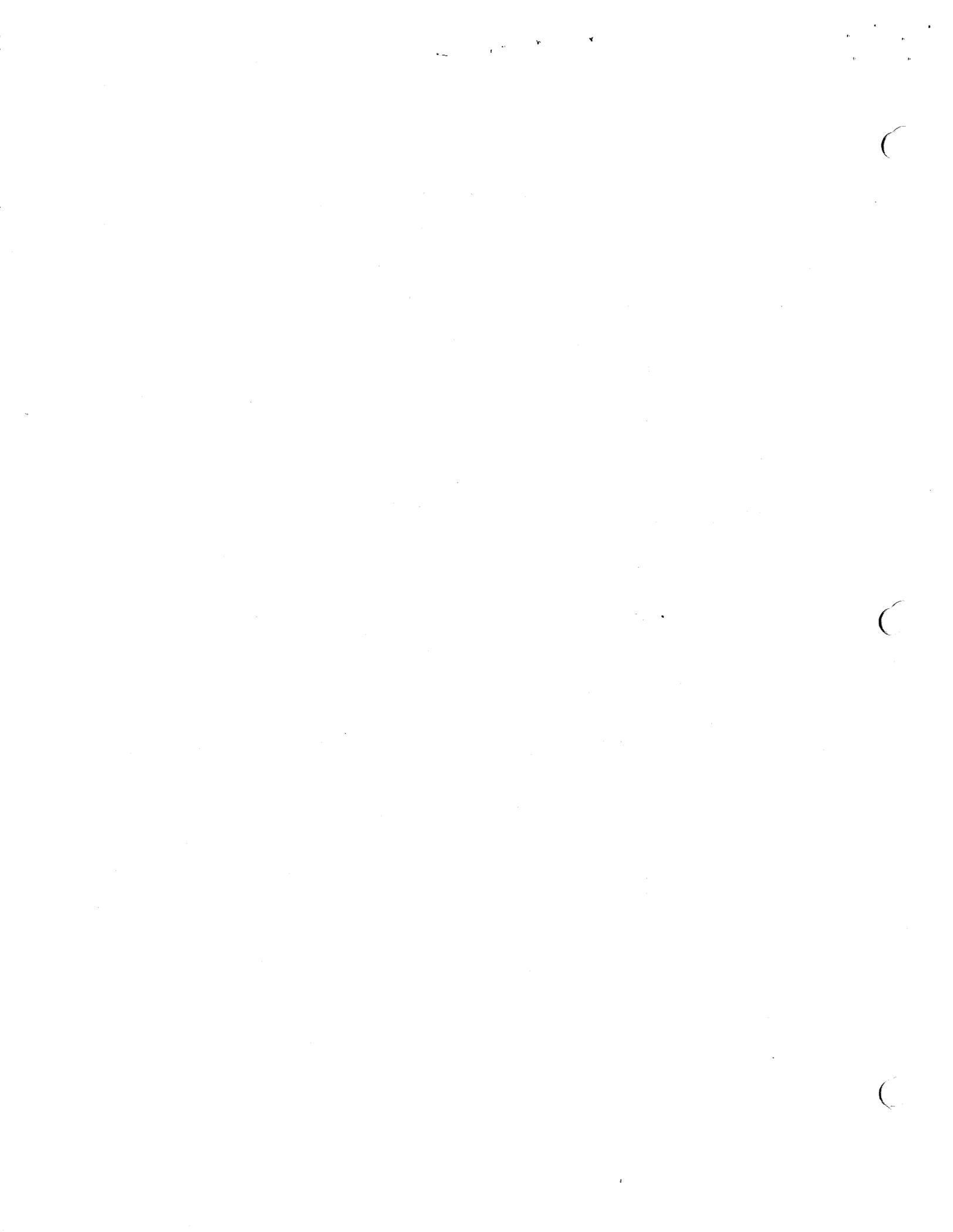
Hein-Werner

CONSTRUCTION EQUIPMENT DIVISION
WAUKESHA, WISCONSIN 53186

9308130

TABLE OF CONTENTS

	Page
SECTION I – CRAWLER DESCRIPTION	1
Main Components	1
Ditch Straddler	3
Hi-Walker Crawler	3
Power Transmission	3
SECTION II – CRAWLER OPERATION	4
Preparation For Use	4
Operating Controls	5
Propel Levers	5
Propel Brake Lever	6
Preparation for Storage	6
SECTION III – CRAWLER MAINTENANCE AND REPAIR	7
Preventive Maintenance	7
Lubricant Recommendations	7
Maintenance Schedules	7
Lubrication	7
Propel Drive Chain Adjustment	8
Crawler Track Adjustment	8
Hydraulic Circuit Pressure Check	8
Propel Circuit Pressure Check	9
Propel Brake Adjustment	9
Tool Kit	9
Gear Box Removal	9
Propel Gear Box Repair	9
Shaft Bearing Adjustment	10
Gear Box Replacement	10
Crawler Drive Sprocket Removal	11
Tumbler or Idler Shaft Bushing, Thrust Washer, and Seal Replacement	11
SECTION IV – REPAIR PARTS LIST	12



**SECTION I
CRAWLER DESCRIPTION**

This section provides the owner and operator of Hein-Werner crawler-mounted equipment with the basic information needed to operate and maintain the crawler.

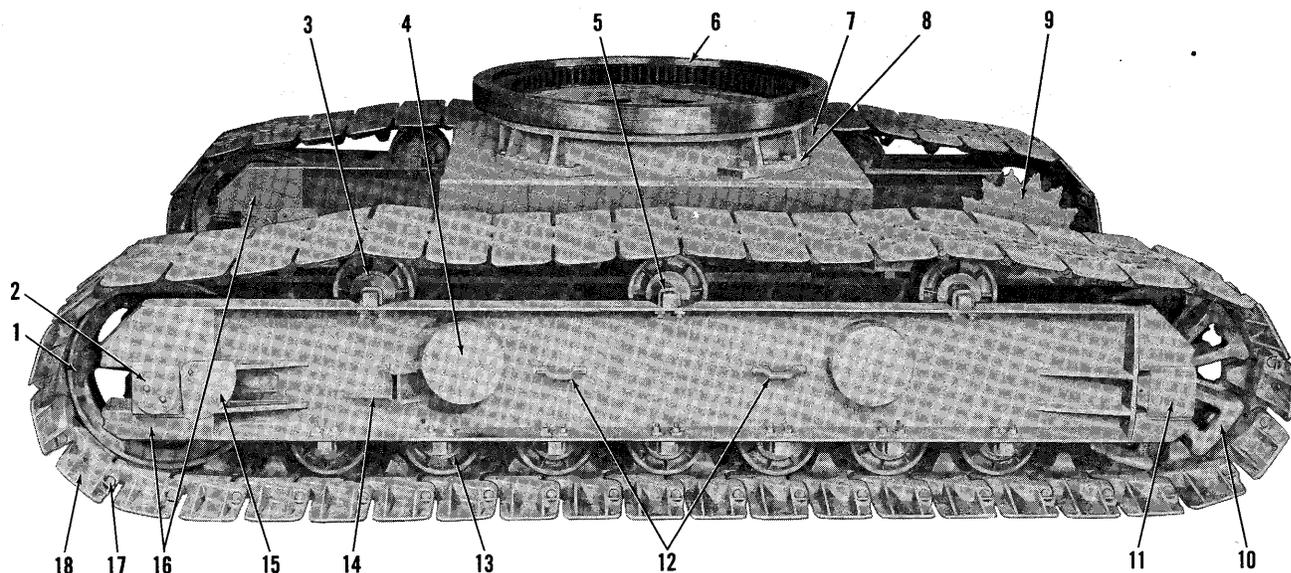
MAIN COMPONENTS

The crawler (Figure 1) consists essentially of two side frames (16) (which mount the tracks and associated parts, the propel motors and drive mechanisms) and the carbody (7) mounted between the two side frames.

The carbody is a box-section structure that is bolted to two cross tubes. These two tubes fit inside the sleeve type mountings (4) in the side frames and are secured to the mountings with two nuts and bolts at each end of the tube. There are two mounting positions for the cross tubes in the side frame: one provides a 96-inch crawler width with 24-inch shoes and a 104-inch width with 32-inch shoes; the other provides a 104-inch crawler width with 24-inch shoes

and a 112-inch width with 32-inch shoes. The turntable adapter (8) is bolted to the upper surface of the carbody and mounts the swing bearing (6) which, in turn mounts the upper unit.

Each side frame (16) is a welded double-channel unit. At each end of the side frame two centrifugally cast bearings with flush-type seals mount a shaft, one for the tumbler (10) and one for the idler (1). The bearings and seals for both shafts are accessible through plates (2 and 11) at the ends of the shafts. The tumblers are self-cleaning and in operation contact only one track shoe at a time and thus eliminate binding and excessive wear. Track tension is adjusted at the adjustment bracket (14); adjustment shims are inserted through the access plate (15). Two hooks (12) in each side frame permit moving the side frame on the cross tubes to change the width of the tracks. Two chains on the inner side of each side frame are welded at one end to the side frame and bolted at the other end to the carbody and prevent the side frames from being pulled off the cross tubes.



- | | | |
|-----------------------------|--------------------------------|---|
| 1. Idler | 7. Carbody | 14. Track Adjustment Bracket |
| 2. Idler Shaft Access Plate | 8. Turntable Adapter | 15. Track Tension Adjustment Access Plate |
| 3. Upper Roller | 9. Sprocket | 16. Side Frame |
| 4. Sleeve-Type Mountings | 10. Tumbler | 17. Track Pins |
| 5. Roller Shaft U-bolt | 11. Tumbler Shaft Access Plate | 18. Track Shoes |
| 6. Swing Bearing | 12. Frame Extension Hooks | |
| | 13. Lower Roller | |

Figure 1. Crawler