

**PREVENTIVE MAINTENANCE
INSPECTION REPORT**

Arm Type Pullout Holdout Device

ARM TYPE PULLOUT HOLDOUT DEVICE PREVENTIVE MAINTENANCE INSPECTION

It is the responsibility of the employer to "establish and follow a program of periodic and regular inspections" of all presses and devices "to ensure that all parts . . . are in safe operating condition and adjustment." (See OSHA Section 1910.217e1).

The following check list is intended to aid you with your inspections. The check points are guide lines only. They do not attempt to check list catastrophic damage, previous improper repairs, use of improper parts or such obvious matters as loose or improper fasteners. All nuts, bolts, lock washers, cotter pins and other fasteners must be checked as a routine part of your inspection, whether specifically indicated or not.

This check list cannot replace good mechanical judgement and competence on the part of the inspector. It is the responsibility of the employer to "insure the original and continuing competence" of personnel caring for, inspecting and maintaining this equipment.

Replace any part found not in safe operating condition, before allowing the device to be used as part of your operational method.

Lubrication: Squirt a few drops of light oil on the sides of the bushings at all moving pivots about once a month. Stretch the cable return springs (W59 or W60) and squirt a few drops of light oil on the cables once a month (or more often if the cables return sluggishly). The cam roller (W30) is a sealed-for-life bearing. Replace it if it does not turn freely.

SUGGESTED INSPECTION PROCEDURE

Numbers in brackets refer to Arm type parts list. Inspection will be easier if the spring pins are removed and the cable block assembly (W54) allowed to drop. However, it is essential to replace the spring pins, with the cable block in proper location, when inspection is completed.

1. Check that screws in cable block assembly (W54) are tightened according to procedure described in item 11. If cable has slipped in clamp (due to improper tightening) remove clamp, inspect projections on clamp (W56) and cable block (W54). Replace both if there is any sign of abrasion. Also check spring pins (W57) for stretched or insecure spring and general condition.
2. Check cable return springs (W59) or (W60) for breakage and proper function. (When spring is pulled toward you and released, it should return to a straight condition. If it does not: (a) check tubes (item 15); (b) lubricate cable (see above).
3. Check bellcrank (W10) or (W11) for bent tail or other damage. Look for signs of pounding on bellcrank stop (see Fig. 4 on Adjusting Card).
4. Check cable adjusting rod (W52) or (W53) for wear, bent condition or other damage. Check for presence and adjustment (see item 5) of flange nut and jam nut on lower end of cable adjusting rod. Do not allow operation of device without these nuts. Do not straighten and reuse a bent cable adjusting rod.
5. Check buffer assembly (W61) for broken spring, worn bushing and general condition. Flange nut (see item 4), must contact spring and compress it from 1/8" to 1/4" at bottom of press stroke.
6. Check connection of rear frame (W4, W5, W6 or O-1) to column (W45 or W46) for rigidity and condition of connecting parts.
7. Check condition of three pivot pins (W32) and bushings (connecting cam (W7, W8 or W9) to link (W20), bellcrank (W10 or W11) to link (W20) and to cable adjusting rod (W50 or W51). Note: When replacing a pivot pin (W32) be sure the knurled portion is a drive fit in the cam, bellcrank or cable adjusting rod. If not — replace the cam, bellcrank or cable adjusting rod concerned. Always secure pivot pins with a 3/32 x 3/4 cotter pin. Always bend the cotter pin legs firmly around the pivot pin so that the cotter pin is not loose or free to wear from vibration.
8. Check cam roller (W30) for loose bearing, cracked inner or outer race, failure to rotate freely. Check cam roller pin (W35) for wear, loose fit, bent or broken condition.
9. Check support rod (W22) connection to front frame (W1, W2, W3), support rod clamps (W24) and support rod angle ears (W23) for rigidity and condition of fasteners.
10. Check stroke rod (W21) for bent condition and fit of ball end in ram blocks (W36). If vertical play exceeds 3/32" replace stroke rod, ram blocks or both.
11. Check cable assembly (W43) for fatigue, wear and general damage. Check that cables are of equal length. Replace cables if there is any doubt about their condition. When installing new cables, tighten screws alternately, going repeatedly from one to the other until the clamp cuts through the nylon covering and grips the steel cable securely. Cut off free ends to 1" max. length.
12. Check cable snap assembly for proper closing, wear, condition of protective spring and general condition.
13. Check wristlets (W38N, W39N, W40N) for wear, fraying of the nylon and general condition. Check attaching rings for wear and breakage.
14. Check cable guide springs (W76) or (W77) for damage.
15. Check tubes (W42) for damage, sharp bends that may interfere with free movement of the cables and for proper attachment at both ends.
16. Replace cable block assembly (W54) and secure with spring pins.
17. Readjust device (refer to Arm type adjusting card — Form AI-A).

TO ASSIST IN PARTS IDENTIFICATION, REFER TO ILLUSTRATED ARM TYPE PARTS LIST.

