



# Battery Extractor Series - Vacuum Extraction Planned Maintenance Inspection Report

Check Codes  
X = O.K.  
A = Adjust  
S = Serviced  
R = Repair  
**U = Urgent**

Customer \_\_\_\_\_

Dealer \_\_\_\_\_

| Model # | Serial Number | P.O. Number / Ref Number | Servicing Technician | Date |
|---------|---------------|--------------------------|----------------------|------|
|         |               |                          |                      |      |

## 1. Operator's Platform

|   | Code |   |   |   |   | Comments |
|---|------|---|---|---|---|----------|
| A. Verify hour meter functioning, record hours      | X    | A | S | R | U | _____    |
| B. Verify vacuum selector switch operation          | X    | A | S | R | U | _____    |
| C. Verify gate switch operation                     | X    | A | S | R | U | _____    |
| D. Verify foot switch operation                     | X    | A | S | R | U | _____    |
| E. Verify extractor arm proximity switch operation  | X    | A | S | R | U | _____    |
| F. Verify all hydraulic functions                   | X    | A | S | R | U | _____    |
| G. Inspect transformer for proper mounting / secure | X    | A | S | R | U | _____    |
| H. Remove dashboard                                 | X    | A | S | R | U | _____    |
| 1. Check hydraulic valves for leaks                 | X    | A | S | R | U | _____    |
| 2. Check for loose or exposed wires                 | X    | A | S | R | U | _____    |

## 2. Inner Carriage

|   |   |   |   |   |   |       |
|---|---|---|---|---|---|-------|
| A. Inspect lift chains, tighten as req., lubricate                    | X | A | S | R | U | _____ |
| B. Inspect equalization chains, adjust as req., lubricate             | X | A | S | R | U | _____ |
| C. Inspect hydraulic cylinders for leaks, verify cylinders are secure | X | A | S | R | U | _____ |
| D. Inspect cam followers for wear, tighten hardware if req.           | X | A | S | R | U | _____ |
| E. Inspect powered rollers, trim if req.                              | X | A | S | R | U | _____ |
| F. Ensure lead roller hitch pins and hex shafts are installed         | X | A | S | R | U | _____ |
| G. Inspect lead and idler rollers for free movement                   | X | A | S | R | U | _____ |
| H. Tighten collar clamps on carrier arm shafts                        | X | A | S | R | U | _____ |
| I. Lubricate lead screw bearings (if applicable)                      | X | A | S | R | U | _____ |
| J. Inspect powered roller bearings and chains, lubricate as req.      | X | A | S | R | U | _____ |
| K. Inspect hydraulic motors and hoses for leaks                       | X | A | S | R | U | _____ |
| L. Inspect all hydraulic lines for leaks, tighten fittings as req.    | X | A | S | R | U | _____ |
| M. Inspect hose and cable routing to arm                              | X | A | S | R | U | _____ |
| N. Lubricate lead screw nut block and carrier arm bearings            | X | A | S | R | U | _____ |
| O. Tighten hardware for lead screw nut block                          | X | A | S | R | U | _____ |
| P. Inspect EQ and lift chain studs                                    | X | A | S | R | U | _____ |
| R. Clean area of debris, excessive hydraulic oil, and corrosion       | X | A | S | R | U | _____ |

## 3. Extractor Arm (Vacuum Extraction)

|  |   |   |   |   |   |       |
|--|---|---|---|---|---|-------|
| A. Visual inspection of vacuum cups, repair/replace if req.                        | X | A | S | R | U | _____ |
| B. Visual inspection of vacuum cup hardware, tighten as req.                       | X | A | S | R | U | _____ |
| C. Inspect vacuum lines for kinks, wear, damage                                    | X | A | S | R | U | _____ |
| D. Inspect tie plates and push arm hardware, tighten as req.                       | X | A | S | R | U | _____ |
| E. Inspect stiffener plates for missing hardware or damage, repair/replace as req. | X | A | S | R | U | _____ |
| F. Clean or replace high flow air filters  | X | A | S | R | U | _____ |
| G. Inspect vacuum pump for damage  | X | A | S | R | U | _____ |
| H. Inspect in-line filter  | X | A | S | R | U | _____ |
| I. Check for exposed wires, repair as req.   | X | A | S | R | U | _____ |
| J. Shift extractor arm forward and back to check for keyway wear                   | X | A | S | R | U | _____ |
| K. Inspect rotary actuator for leaks, loose fittings, tighten as req.              | X | A | S | R | U | _____ |
| L. Tighten hardware for guide arm bearings   | X | A | S | R | U | _____ |
| M. Inspect rotary actuator frame for damage  | X | A | S | R | U | _____ |
| N. Inspect all hoses for leaks, tighten fittings as req.                           | X | A | S | R | U | _____ |
| O. Inspect swing arm stops and cushions for wear, replace as req.                  | X | A | S | R | U | _____ |
| P. Inspect shaft collars, tighten as req.  | X | A | S | R | U | _____ |
| R. Inspect bearing cap hardware, tighten as req.                                   | X | A | S | R | U | _____ |
| S. Inspect arm guards for damage, missing hardware, and vinyl edging               | X | A | S | R | U | _____ |

## 4. Outer Carriage

|   |   |   |   |   |   |       |
|---|---|---|---|---|---|-------|
| A. Inspect all guards for damage, missing hardware, replace as req.             | X | A | S | R | U | _____ |
| B. Inspect electrical supply box for exposed wires                              | X | A | S | R | U | _____ |
| C. Inspect angle guide rollers for wear and full motion                         | X | A | S | R | U | _____ |
| D. Inspect cross bars and inner carriage stop hardware, tighten as req.         | X | A | S | R | U | _____ |
| E. Inspect operator's step and gate for damage, tighten/repair hardware as req. | X | A | S | R | U | _____ |

## 5. Hydraulic System

- A. Verify pressure and relief settings
- B. Inspect all hoses for leaks, tighten fittings as req.
- C. Verify last hydraulic oil and filter change
  - 1 Hydraulic filter change every 250 hours
  - 2 Hydraulic oil change every 500 hours
    - a. Chevron AW68 or equal recommended
    - b. Chevron AW32 or equal recommended (cold conditions)
- D. Inspect hydraulic filter for leaks, tighten/replace as req.
- E. Inspect pump to motor coupling, ensure spider insert is intact
- F. Clean hydraulic component area of excess oil and debris
- G. Check for exposed wires, repair as req.

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## 6. Drive Wheels & Idler Casters

- A. Inspect poly tread on drive wheels, check for foreign materials
- B. Inspect chain coupling
- C. Inspect hydraulic lines for leaks, tighten fittings as req.
- D. Inspect drive wheel hardware, tighten as req.
- E. Inspect hydraulic motors for leaks replace if req.
- F. Inspect shafts for excess rotation (possible keystock/keyway wear)
- G. Inspect idler caster poly tread for foreign materials
- H. Lubricate idler casters
- I. Check hardware, tighten as required
- J. Clean area of debris, excessive hydraulic oil, and corrosion

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## 7. Overall System Inspection

- A. Travel path
  - 1. Inspect travel path for damage, holes, or irregularities
  - 2. Inspect expansion joints, repair as req.
  - 3. Remove all debris, foreign materials, and water from travel path
- B. Inspect guide track for damage, wear, and misalignment
- C. Remove / neutralize acid and corrosion from travel path, guide track, and extractor
- D. Wipe down guards, remove dirt, debris, and corrosion
- E. Repaint guards, frame, stands, and components as req.
- F. Replace worn / missing safety stickers as req.

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## 8. Power Supply

- A. Inspect power supply stanchion, tighten hardware as req.
- B. Inspect collector trolley for proper alignment
- C. Inspect energy rail for straightness
- D. Inspect stanchion hardware and anchoring, tighten as req.

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## 9. Reinstall Panels

General Comments

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Customer Signature

Date

Servicing Technician Signature

Date

### NOTE:

ANY BATTERY HANDLING EQUIPMENT FOUND TO BE IN NEED OF REPAIR SHOULD BE TAGGED OUT OF SERVICE UNTIL ALL NECESSARY REPAIRS HAVE BEEN COMPLETED BY AN AUTHORIZED SERVICE TECHNICIAN.

Refer to service manual for details on inspection, lubrication, and adjustments.

For more information on BE systems visit [www.bhs1.com](http://www.bhs1.com)

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