

ADVISORY

June, 2009

PRODUCTS: Wire Ropes and Safety Locking Systems on All 4-Post Automotive Lifts.

HAZARD:

Some lifts manufactured between November, 2005 and May, 2009 are experiencing premature wear of wire ropes due to inconsistent wire rope quality. Failure of a wire rope could cause lift to collapse resulting in serious personal injury or death. Wire ropes and safety locking systems on 4-Post lifts are critical to safe and reliable performance of your lifts.

ACTIONS:

INSPECTIONS AND MAINTENANCE OF WIRE ROPES AND SAFETY LOCKING SYSTEM

(Please complete this form and keep it for your records.
You do not need to send this form to Snap-on.)

Monthly inspection of wire ropes and safety locking system per operation manual and ANSI/ALI ALOIM standard is required.

If you have not complied with these standards and procedures during your monthly inspection or if you have not completed your required monthly inspection, do so immediately utilizing the standard and enclosed procedures.

Note: For replacement copies of operation manual and ANSI/ALI ALOIM standard, contact technical support.

QUESTIONS:

If you have questions on this advisory or need assistance contact: [Technical support at \(800\) 225-5786 \(press 2, press 3\)](tel:8002255786).

PRODUCT SAFETY

Models Affected:			
Wheeltronic 12402 12406 12430 12402XT 12405AF 12405AF 12407AFX 12407CW 12407XCW 14407AF 14407AFX 14407CW 14407XCW 18405AF 18405CW 18406	44214QE 44218Q 44218QF Accu Ind. AC12402 AC12402XT AC12405AF AC12405AFM AC12406 AC12407AF AC12407AFM AC12407AFXM AC12407XT AC12430 AC18406 AC18407AF AC18407AFM	EELR124APKG EELR132A EELR132AXT Hofmann EFP12172 EFP12210 FPA12172 FPA14172 FPA14210 FPF12172 FPL12144 FPOA12172 FPOA12210 EQS/Mazda MX612 Mazda (EQS)	S4140A0_ S4140A0E S4140SA_ S4140XA_ S418CXA0_ S418CXS0_ American Tire Distributors WH-11QLUBE WH-120EAL WH-120EALH WH-120EXTCW WH-120EXTCWH WH-12E172 WH-12E210 WH-12Q172 WH-12QA172AL WH-18210FD WH-18K210CW WH-812405 WH-812407 WH-812407AFX WH-818405AF WHE18406
John Bean 43102Q 43102QE 43111L 43212L 44212OQ 44212OQE 44212Q 44214Q	Snap-on EELR102A EELR103A EELR121A EELR121AEXT EELR121AEXTP EELR121APKG EELR124A	Hennessy Ind. S411CSQ0_ S412CSA_ S412CSS_ S412CXS_ S412OSA_ S412OSS_ S412OXA_ S412OXS_	

Lift Serial Number: _____

Manufacture Date: _____

Location: _____

Date of Inspection: _____

Name of Inspector: _____

Identification of Wire Ropes
Stamped on the threaded stud
(Figure 1)

Rope 1 (FL):

Rope 2 (RL):

Rope 3 (RR):

Rope 4 (FR):

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1. Wire Rope Inspections and Replacement Criteria

Visually inspect the general condition of the entire wire rope, pay particular attention to sections where the rope is bent in the sheaves.

Wire Rope Replacement Criteria:

The wire rope must be removed from service if one or more of the following criteria are met:

1. More than six randomly distributed broken wires in one rope lay or 6×d length (Figure 4).
2. More than three broken wires in one strand in one rope lay or 6×d length (Figure 4).
3. Three or more broken wires at rope terminations (Figure 1).
4. Heavy rusting.

1.1. Lubrication Good Poor
 If “Poor”, apply lubricants. Use lubricants that offer 1) wear resistance, 2) corrosion prevention and 3) penetration into rope strands.
 For example: 2001 MONOLEC® Wire Rope Lubricant.

1.2. Broken wires (Figure 2) Yes No
 If “Yes”,
 1) Indicate the rope and location of the broken wires according to the sketch in Figure 3, for example: “close to RL”, “between Location-2 and Location-3”, etc.
Rope and location of broken wires:

 2) Count the number of broken wire in one rope lay or 6×d length (Figure 4) in the worst location.
Number of broken wires:

1.3. Rust (Figure 5) Yes No
 If “Yes”, indicate the rope and location of the rust according to the sketch in Figure 3, for example: “close to RL”, “between Location-2 and Location-3”, etc.
Rope and locations of rust:

1.4. Excessive wear (Figure 6) Yes No
 If “Yes”, indicate the rope and location of the wear according to the sketch in Figure 3, for example: “close to RL”, “between Location-2 and Location-3”, etc.
Rope and location of wear:

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PRODUCT SAFETY

1.5. Other issues with wire ropes Yes No
If "Yes", describe below and contact Snap-on technical support for solutions.

2. Safety Locking Systems (Figure 8)

2.1 The whole system is free of debris and dust Yes No
If "No", clean and re-lubricate.

2.2 Both mechanical lock and cable-break lock are working properly Yes No
If "No", take proper actions to correct or contact Snap-on technical support for solutions.

2.3 Rollers are free to rotate Yes No
If "No", take proper actions to correct or contact Snap-on technical support for solutions.

2.4 Corrugated roller groove (Figure 7) Yes No
If "Yes", replace with new rollers.

3. All other items associated with wire ropes, for example: sheaves, rollers and shafts, should also be inspected to ensure that they are properly maintained and in normal working conditions.

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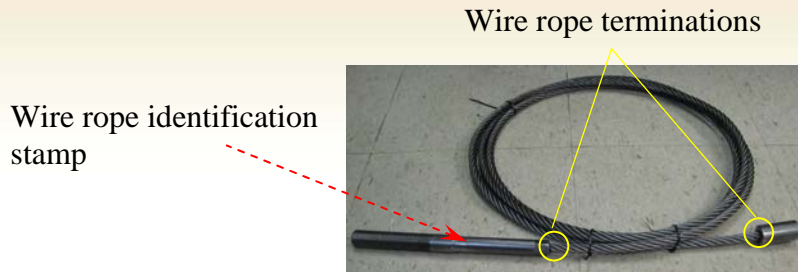


Figure 1 Wire rope identification stamp and terminations.

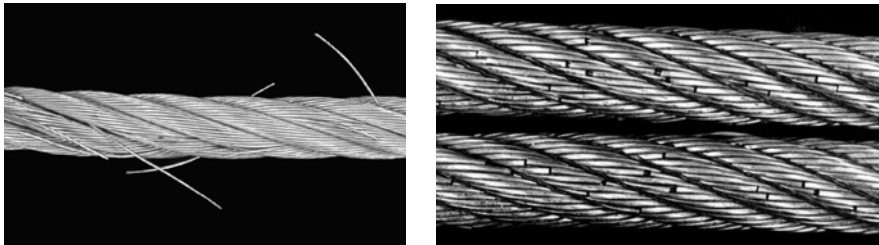


Figure 2 Broken wires.

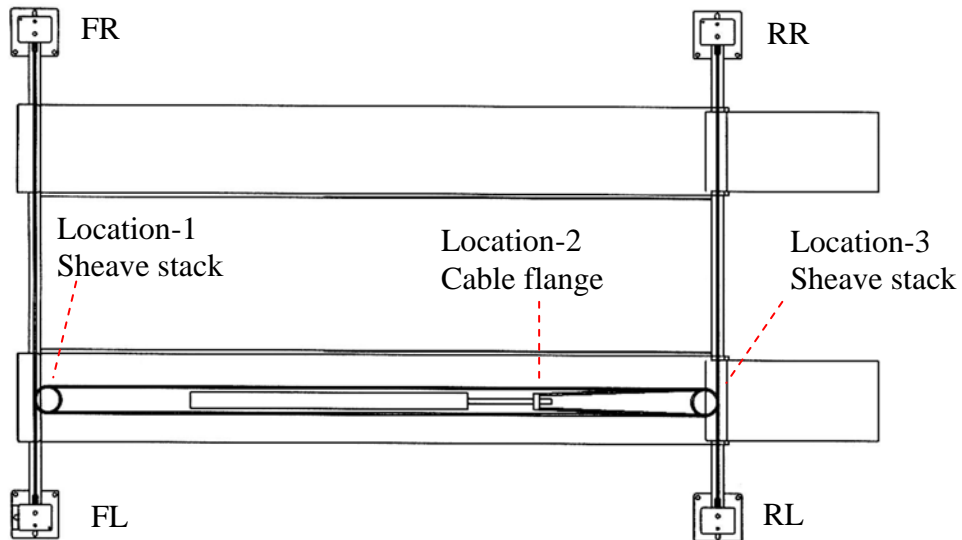


Figure 3 Locations of damage.

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One rope lay is the length along the rope which a single strand requires to make one complete spiral, or turn, around the core.

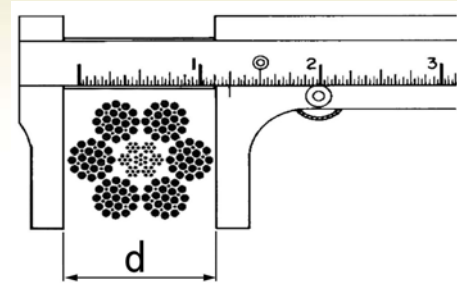
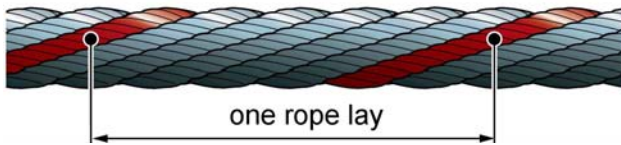


Figure 4 Lay length and $6 \times d$ (six times of the rope diameter "d") length.



Figure 5 A heavily rusted wire rope.

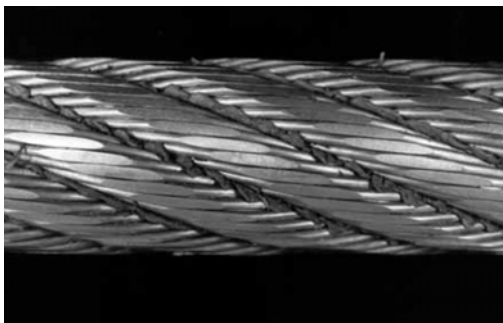


Figure 6 Excessive wear of wires.



Figure 7 Corrugated roller groove.

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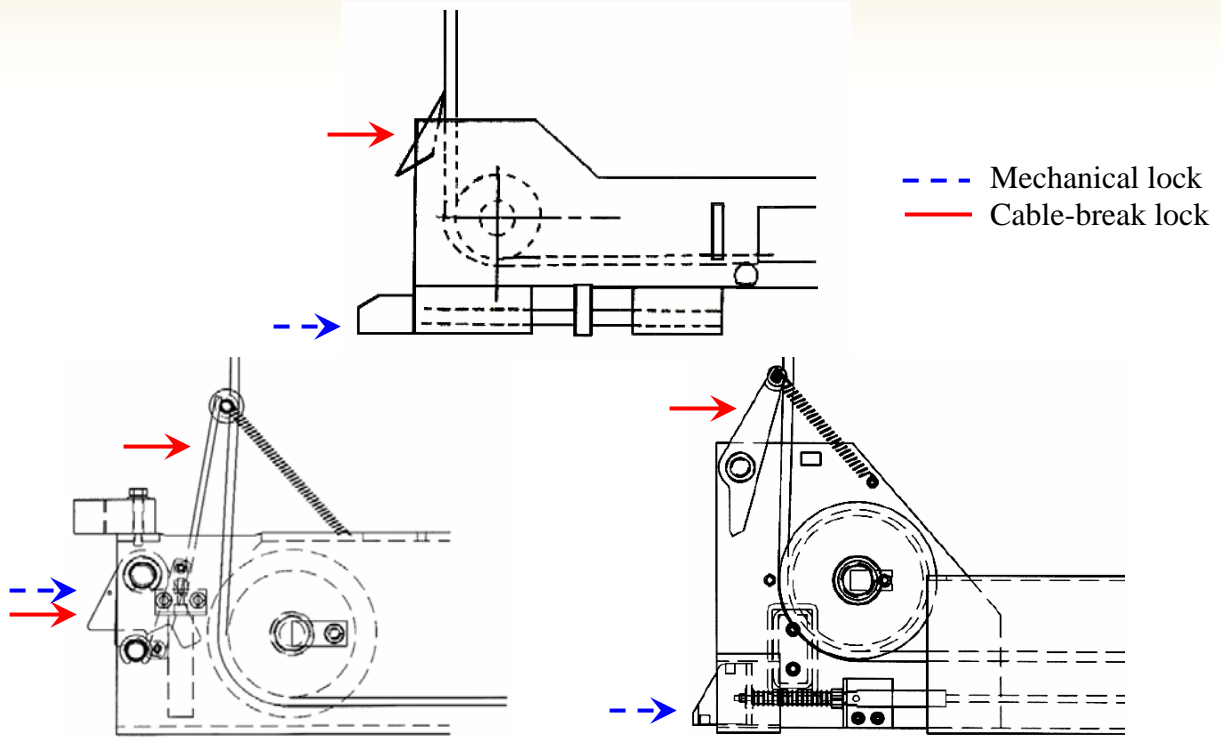


Figure 8 Safety locking systems.

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