

Fletcher

*Product
Newsletter*

J. H. Fletcher & Co.

HUNTINGTON, WEST VIRGINIA

Volume 6, Issue 2

February 1994

NEW MODERNIZATION AND REBUILD FACILITY

J. H. FLETCHER & CO. has been involved in rebuilding and modernizing Fletcher roof drills for a number of years, but we have been hampered because we have not incorporated personnel and facilities dedicated to this rebuild process. We are now constructing a facility which will be dedicated to rebuilding Fletcher equipment. The machines will be stripped and all of the components will be reworked or modernized at the rebuild facility. This work will be done in close association with the Fletcher Engineering Department to ensure that the old parts are returned to original specs and that any safety or design improvements are incorporated. Any parts that can not be rebuilt will be replaced with stock rebuilt parts or in many cases with new parts. When this process is complete the new and rebuilt components will be sent to one of the same production assembly teams which build new equipment. From this point on it will be assembled and tested as if it were a new machine.



Over the years many improvements have been made which have positive effects on safety, productivity, and serviceability. Whenever possible many of these innovations were designed in such a way as to allow them to be adapted to older machines. To a large extent the development of our equipment has been an evolution process and in some cases equipment which is obsolete by today's safety and productivity standards can be salvaged through our exclusive "modernization" program. A good example is the evolution of the DDO into RR11. Many of the roof ranger features can be adapted to a DDO such as the new design front and rear lift systems which eliminates possible chassis failure.

An old DDO can be fitted with an approved ATRS system, an independent drop in oil tank, offset booms, and new canopies and support post assemblies with adjustable wear pads. These are examples of just a few of the many design improvements that have developed on all Fletcher models.

We at Fletcher are dedicated to providing our customers with the safest and most productive roof drill available. With the development of our new rebuild and modernization facility we are making a commitment to ensuring that equipment designed and built by J. H. Fletcher & Co. can be constantly upgraded to provide you, our customer, with state-of-the-art equipment at a reasonable price.

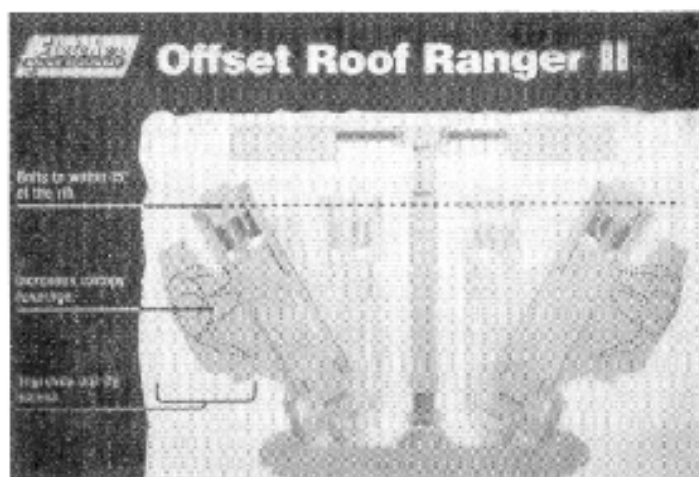
ROOF RANGER II

New boom angle lets you operate in tight spots.

Take a close look at the illustration and you will see a new design in roof bolter technology. The new Fletcher Roof Ranger II and offset boom technology gives you:

- ★ *Capability to bolt within 15" of the rib.*
- ★ *Increased canopy coverage.*
- ★ *Improved out-by access.*
- ★ *Independent front and rear chassis lift.*
- ★ *Greater material storage capacity and access.*
- ★ *Independent power system for each boom.*
- ★ *Adapts to 16' to 24' entry width and seam heights ranging from 35" to 84".*

J. H. Fletcher & Co. has always been a leader in innovative roof bolter design. Our design group has provided you with the HDDR, Mobile Roof Support System and new developments in dust collection systems such as the pre-cleaner and auto dump dust tanks. Stay with J. H. Fletcher and Co. for the latest in design and best quality. You can depend on our experienced field sales and



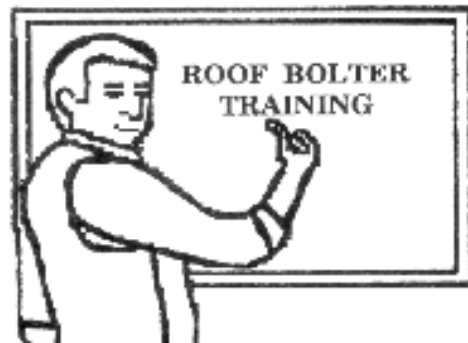
service representatives for your after market parts and field support of your roof bolter after the sale.

To find out more about the bolter with the new angle call J. H. Fletcher & Co. today.

(304) 525-7811

TRAINING

If you have recently purchased a J. H. Fletcher & Co. bolter and need training or retraining call J. H. Fletcher & Co. for field assistance. Operator manuals and maintenance manuals are also available for most machines with a minimum charge. If you are planning a training class yourself, call David Cooper



or Chris Greenwood at J. H. Fletcher & Co. to find out what materials we have and what we can do for you,

VIDEO

A NEW FREE VIDEO IS NOW AVAILABLE FROM J. H. Fletcher & Co. to all customers. This video is a compilation of our most frequently purchased roof bolters. The video describes the general operating characteristics and hazards associated with operating a roof bolter underground.



This video is not a training package, as the RRI previously offered, but is only to be used as a supplementary aid to your required task training program.

To order the video, simply call our service department and request "YOU, FLETCHER, and SAFETY."

ELECTRICAL MAINTENANCE NEWS

Recently J. H. Fletcher & Co. received some information from Service Machine Company regarding the Aluminum Alloy Covers on Explosion Proof Enclosures. These are the enclosures used for the starter boxes on Fletcher equipment. We felt that it was important to pass this information along to our customers to avoid unnecessary damage to your Fletcher bolter.

The screws specified by Service Machine Company for securing the Aluminum Alloy Covers are SAE Grade 5, coarse thread series. It is essential that the specified grade of screws be used even though their tensile strength is more than adequate to meet the MSHA requirements.

To avoid damage to the Aluminum Alloy Covers it is important that the screw torques do not exceed those listed in the table. The recommended assembly torques are significantly less than those typically recommended for general applications. There are several reasons for this reduction in torque . . .

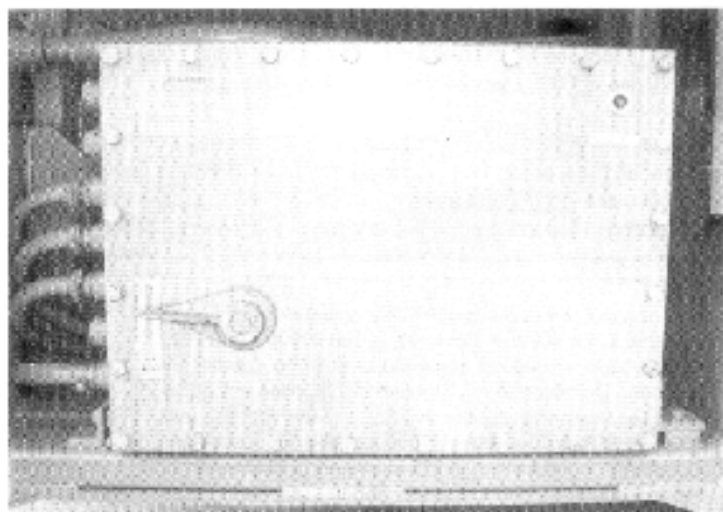
1. The material used for the rim bars has a lower tensile strength and is softer than the material of the screws. Hence the threads in the tapped holes will be damaged if the screws are tightened to their proof loads.
2. The screws and their lock washers are bearing down on to aluminum alloy covers which will deform if the screws are tightened to their proof loads.
3. The joints are not intended to be permanent or semi-permanent because the covers have to be removed relatively frequently for inspection or maintenance purposes, thus increasing the wear and tear on the threads.

Remember, anytime you have to remove the starter box cover, turn off the circuit breaker and remove power from the the machine FIRST.

RECOMMENDED ASSEMBLY TORQUES FOR HEXAGON HEADED CAP SCREWS SECURING ALUMINUM ALLOY COVERS ON EXPLOSION PROOF ENCLOSURES

Bolt Size	3/8"	1/2"	5/8"
Torque (lb/ft)	20	50	100
Torque (N.m)	27	68	135

(Information contributed by Service Machine Company).

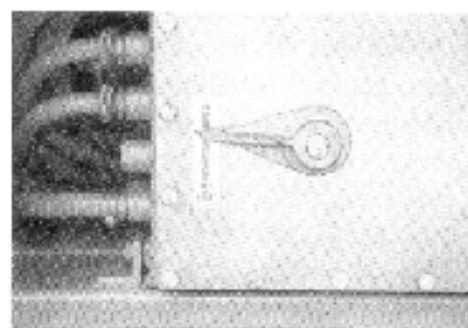
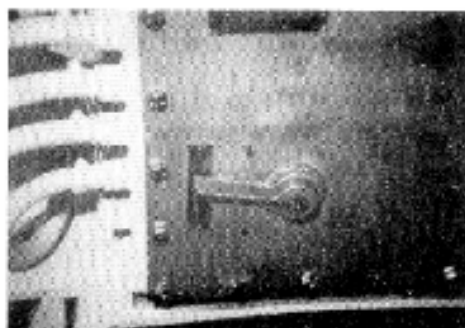


CIRCUIT BREAKER PINS

All Fletcher roof bolting equipment has a starter box with a circuit breaker switch. On older model machines there are stop pins located above and below the circuit breaker switch. These pins stop the switch from going any further than necessary to turn the circuit breaker on or off. The newer design of starter box covers does not incorporate the stop pins. Further more, the old starter boxes as well as the new should not have any open holes in them. Any holes in the starter box or starter box cover should be filled in order for the box to remain an explosion proof enclosure.

CAUTION: Always follow your company's lock out procedure when doing any maintenance on equipment. Failure to lock out power could cause serious injury or death.

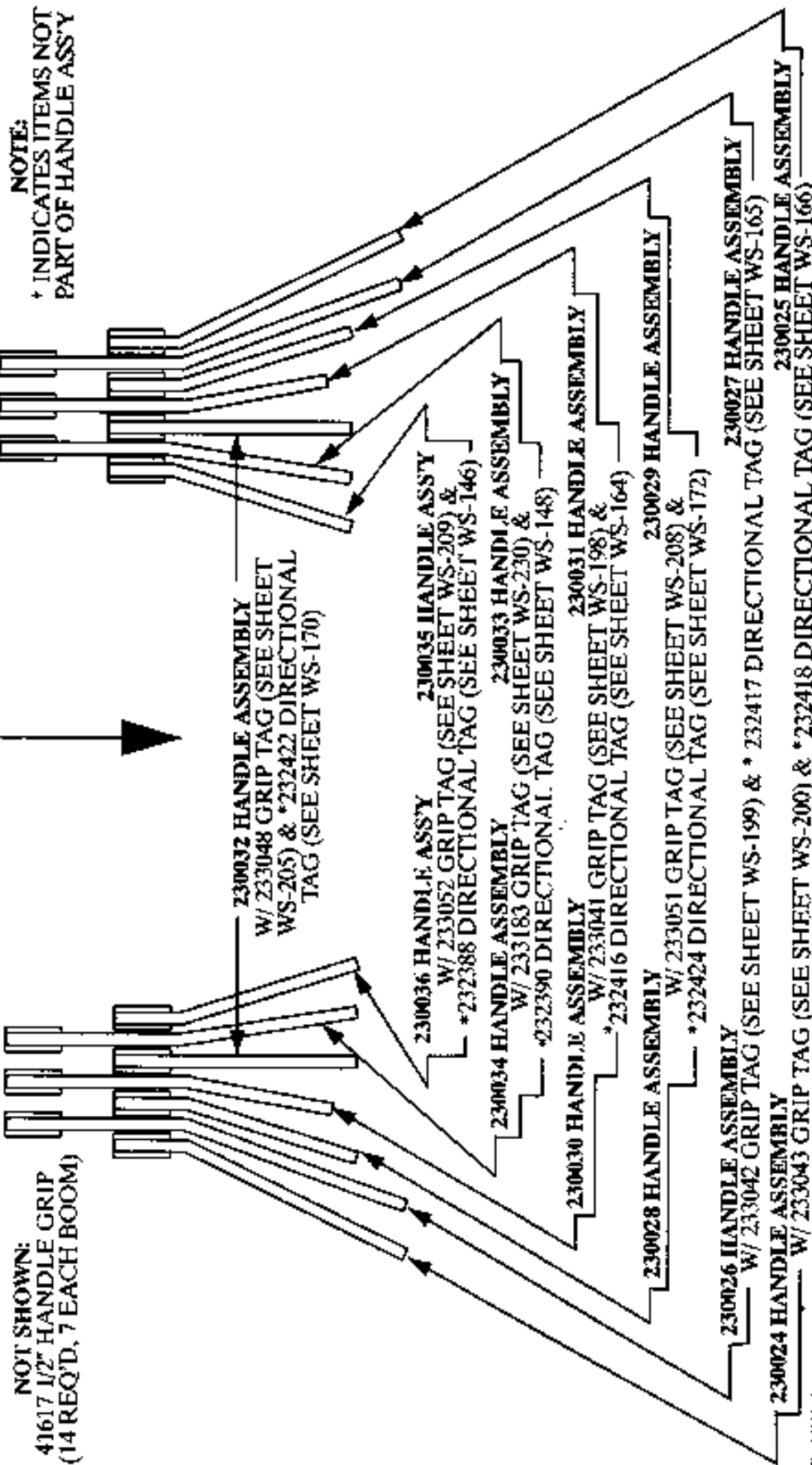
If you have any questions regarding this information please contact the J. H. Fletcher & Co. Engineering



FRONT OF MACHINE

RIGHT HAND BOOM VALVE HANDLES

LEFT HAND BOOM VALVE HANDLES



SHEET NO.

HY-253

TITLE

MODEL DDO & RR11
DRILLING UNIT VALVE HANDLE ARRANGEMENT

DATE

11/12/93

J.H. FLETCHER & CO.

482 HIGH STREET HUNTINGTON, W.VA.

231968 HANDLE ASSEMBLY
233043 GRIP TAG (SEE SHEET WS-200)
• 232418 DIRECTIONAL TAG
(SEE SHEET WS-166)

231970 HANDLE ASSEMBLY
233042 GRIP TAG (SEE SHEET WS-199)
• 232417 DIRECTIONAL TAG
(SEE SHEET WS-165)

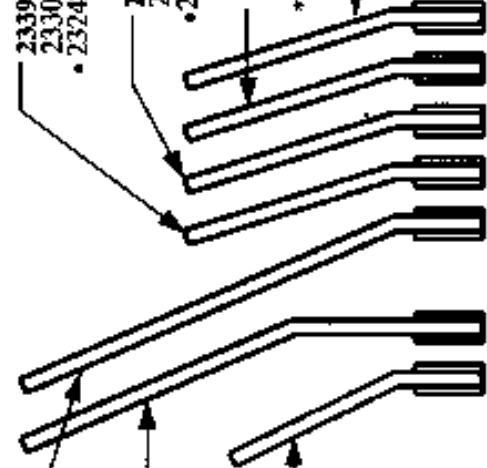
231974 HANDLE ASSEMBLY
233041 GRIP TAG (SEE SHEET WS-198)
• 232416 DIRECTIONAL TAG
(SEE SHEET WS-164)

233902 HANDLE ASSEMBLY
233048 GRIP TAG (SEE SHEET WS-205)
• 232422 DIRECTIONAL TAG (SEE SHEET WS-170)

233900 HANDLE ASSEMBLY
233051 GRIP TAG (SEE SHEET WS-208)
• 232424 DIRECTIONAL TAG (SEE SHEET WS-172)

233898 HANDLE ASSEMBLY
233183 GRIP TAG (SEE SHEET WS-230)
• 232390 DIRECTIONAL TAG (SEE SHEET WS-148)

233896 HANDLE ASSEMBLY
233052 GRIP TAG (SEE SHEET WS-209)
232388 DIRECTIONAL TAG
(SEE SHEET WS-146)



RIGHT BOOM VALVE HANDLE ARRANGEMENT

TO FRONT OF MACHINE

LEFT BOOM VALVE HANDLE ARRANGEMENT

NOT SHOWN:
41617 1/2" HANDLE GRIP
(14 REQ'D, 7 EACH BOOM)

231973 HANDLE ASSEMBLY
233041 GRIP TAG (SEE SHEET WS-198)
• 232416 DIRECTIONAL TAG
(SEE SHEET WS-164)

231969 HANDLE ASSEMBLY
233042 GRIP TAG (SEE SHEET WS-199)
• 232417 DIRECTIONAL TAG
(SEE SHEET WS-165)

231967 HANDLE ASSEMBLY
233043 GRIP TAG (SEE SHEET WS-200)
• 232418 DIRECTIONAL TAG
(SEE SHEET WS-166)

233897 HANDLE ASSEMBLY
233052 GRIP TAG (SEE SHEET WS-209)
• 232388 DIRECTIONAL TAG
(SEE SHEET WS-146)

233899 HANDLE ASSEMBLY
233183 GRIP TAG (SEE SHEET WS-230)
• 232390 DIRECTIONAL TAG
(SEE SHEET WS-148)

233901 HANDLE ASSEMBLY
233051 GRIP TAG (SEE SHEET WS-208)
• 232424 DIRECTIONAL TAG
(SEE SHEET WS-172)



233903 HANDLE ASSEMBLY
233048 GRIP TAG (SEE SHEET WS-205)
• 232422 DIRECTIONAL TAG (SEE SHEET WS-170)

NOTE:
* INDICATES ITEMS NOT PART
OF HANDLE ASSEMBLY

SHEET NO.

HY-252

TITLE

(DOG LEG STYLE)
DRILLING UNIT VALVE HANDLE ARRANGEMENT

DATE

8/30/93

J.H. FLETCHER & CO.

402 HIGH STREET HUNTINGTON, W.VA.