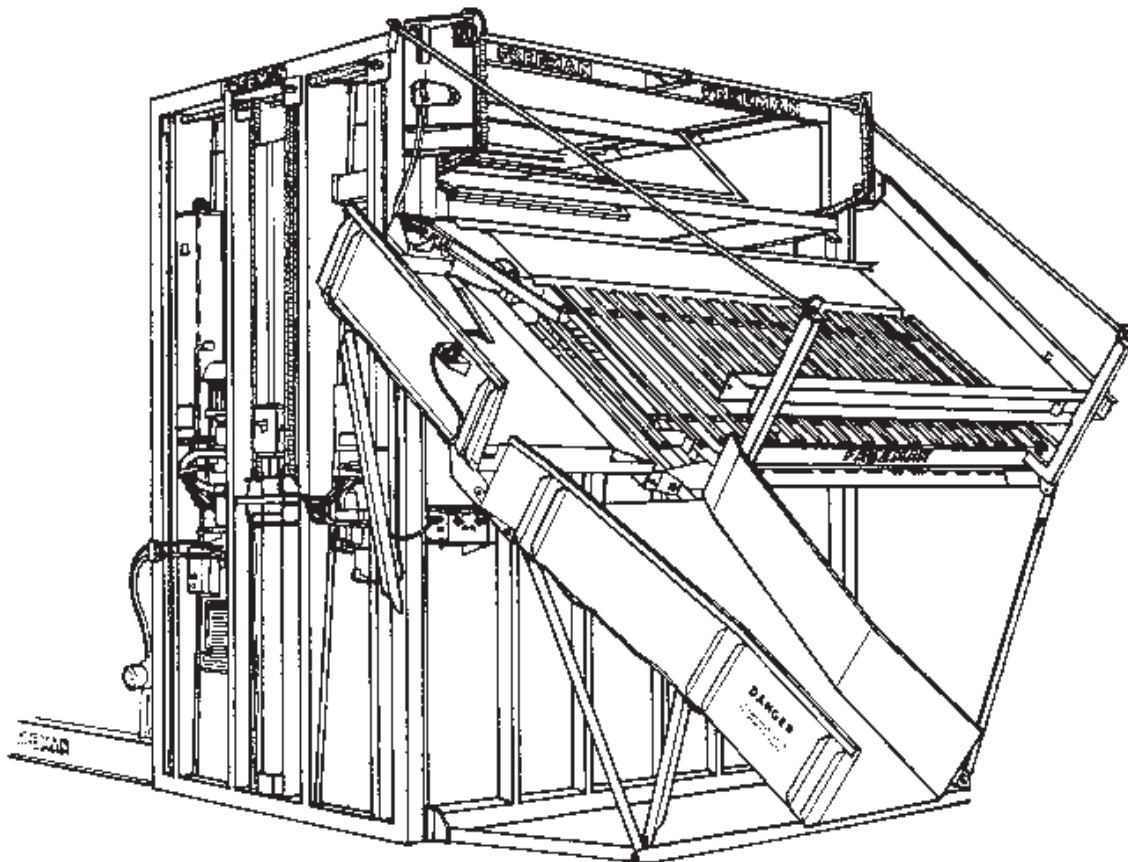


FREEMAN

MODEL BF 1000 BALE FEEDER



Operator's Manual

manufactured and distributed by



J. A. FREEMAN & SON, INC.



PORTLAND, OREGON

PB01000OPS

CAUTION PRUDENCE



ACHTUNG PRUDENZA

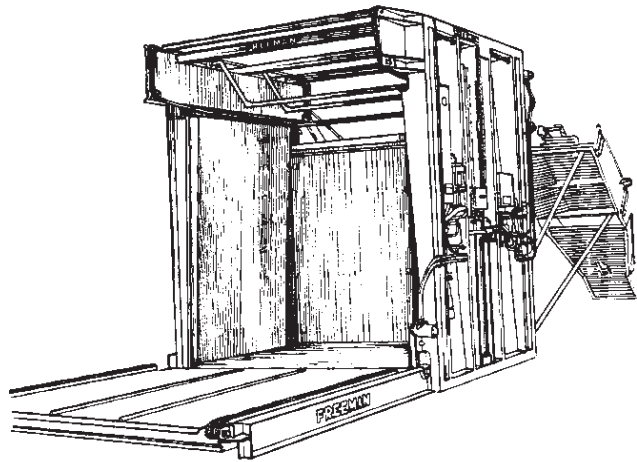
1. Keep all shields in place.
2. Always stop engine before leaving operator's position and in any case, make sure precautions are taken.
3. Wait for all movement to stop before servicing this Machine.
4. Keep hands, feet and clothing away from power driven parts.
5. Never adjust, lubricate, clean or unclog unless engine is stopped.
6. Read operator's manual before operating machine. Illustrated parts listing is available from your dealer.
7. After servicing, make sure that tools and parts are stored and reinstall shields.
8. Make certain everyone is clear of machine before starting engine or operation.
9. Contact with moving parts or with any material which can be drawn into moving parts can result in serious injury.

1. Maintenir tous les protecteurs en place.
2. Toujours arrêter le moteur avant de quitter le poste de conduite et, d'une façon générale, s'assurer que toutes les précautions sont prises.
3. Attendre l'arrêt de toutes les pièces en mouvement avant d'intervenir sur la machine.
4. Ne pas approcher mains, pieds, vêtements des parties en mouvement.
5. Ne jamais régler, graisser, nettoyer ou déboucher la machine sans que le moteur soit arrêté.
6. Prendre connaissance du manuel d'utilisation avant de travailler avec la machine. Le catalogue pièces de rechanges est disponible chez votre concessionnaire.
7. Après intervention, veiller à ce que les outils et pièces soient rangés et remettre les carters en place.
8. S'assurer que personne n'est près de la machine avant de démarrer le moteur ou de travailler.
9. Risque de dégâts importants si quelqu'un ou quelque chose est happé par des pièces en mouvement.

1. Bevor mit der Maschine gearbeitet wird, sind die Bedienungsvorschriften und die angebrachten Hinweismarkierungen zu lesen. Alle Sicherheitsvorschriften sind einzuhalten.
2. Vor Inbetriebnahme ist darauf zu achten, dass alle Schutzeinrichtungen angebracht sind, und dass sich keine Person im Gefahrenbereich der Maschine aufhält.
3. Instandsetzungs-, Einstellungs-, Wartungs- und Reinigungsarbeiten nur bei abgeschaltetem Antrieb und stillstehender Maschine vornehmen.
4. Werkzeuge oder andere lose Teile nicht in oder auf der Maschine belassen.

1. Tenere tutte le protezioni al loro posto.
2. Spegner sempre il motore prima di lasciare il posto di guida e, in linea di massima, assicurarsi che siano prese tutte le precauzioni.
3. Attendere l'arresto completo di tutti gli organi prima di intervenire sulla macchina.
4. Non avvicinare mani, piedi, vestiti agli organi in movimento.
5. Solo a motore spento si può registrare, ingrassare, pulire o eliminare gli ingolfamenti.
6. Consultare attentamente il manuale d'istruzione prima di iniziare il lavoro con la macchina. Il catalogo parti di ricambio è disponibile presso il vostro concessionario.
7. Dopo qualsiasi intervento sistemare attrezzi e pezzi e rimettere a posto le protezioni.
8. Assicurarsi che non ci sia nessuno nelle vicinanze della macchina prima di metterla in moto o iniziare il lavoro.
9. Rischi e gravi infortuni subiscono coloro che sono agganciati da parti in movimento.

MODEL BF 1000 BALE FEEDER



POLICY

It is policy of J.A. Freeman & Son, Inc. to constantly improve its products whenever it is practical to do so. J.A. Freeman & Son, Inc. reserves the right to redesign or change its equipment or component parts thereof without incurring any obligation to install or furnish such changes on equipment previously delivered. Unauthorized changes or additions to equipment manufactured by J.A. Freeman & Son, Inc. relieves the company of further responsibility for warranted operation and breakage replacement.

J.A. Freeman & Son, Inc.
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J. A. FREEMAN & SON, INC.

LIMITED WARRANTY

J. A. Freeman & Son, Inc., (hereinafter referred to as Freeman), warrants all new equipment manufactured by Freeman to be free from material and workmanship defects for one year from date of purchase beginning on the date of delivery to the retail purchaser. One copy of the 'Equipment Delivery and Warranty Registration' must be completed and returned to J. A. Freeman & Son, Inc. in order to validate the warranty.

This warranty does not apply, cover or include equipment or parts which have been subject to misuse, operational abuse, negligence, alteration, accident, failure to lubricate, or used in any way which, in Freeman's opinion, adversely affects the equipment or the part's performance. Additionally, this warranty does not cover damage to parts, assemblies, or equipment due to loose or missing bolts or operation of the equipment in a miss-adjusted state. Wear items including but not limited to chains, sprockets and other wear items are expressly excluded from this warranty, regardless of time in service.

Warranty repair or replacement must be made at an authorized Freeman dealer, or a location designated by Freeman. Any warranty repair labor charge must be pre-authorized by Freeman and submitted with the authorization number to qualify for payment. Payment will be made at Freeman's standard warranty rate only. The original purchaser shall be responsible for the cost, if any, of transporting the equipment to a designated repair facility, any freight charges associated with a claim, or any travel time by the authorized dealer's service personnel to effect an authorized repair.

The Freeman warranty extends only to Freeman manufactured parts and components and does not cover any buy-out-items. Parts, components and items not of Freeman's manufacture are warranted only to the extent of the buy-out manufacturer's warranty and subject only to their allowance to the original purchaser or Freeman, and only if found defective by such manufacturer.

Except as set forth, Freeman shall not be liable for injuries or damages of any kind or nature, direct, consequential, or contingent, to person or property. This warranty does not apply, cover, or extend to loss of crop, loss because of delay or loss incurred for labor, supplies, substitute machinery, rental or for any other reason.

The obligation under this warranty is limited to replacement or repair at a facility designated by Freeman, of qualifying parts that Freeman determines to be defective in material or workmanship. **ONLY AUTHORIZED FREEMAN FACTORY PERSONNEL MAY MAKE THIS QUALIFYING DETERMINATION FOR THE PURPOSES OF THIS LIMITED WARRANTY.**

Freeman reserves the right to make improvements in design or changes in specifications without notice at any time and without incurring any obligation to owners of products previously sold.

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SAFETY

J.A. Freeman & Son is greatly concerned with safety. The Freeman BF1000 is furnished with safety features. Even with these safety features, personal injury or death can still occur if the operator is careless, negligent or thoughtless when maintaining, lubricating, operating, unclogging, or servicing the BF 1000.

Your Freeman BF 1000 has safety shields to help prevent personal injury. Do not operate the machine unless all shields are in place. There are also "CAUTION," "DANGER," and "WARNING" decals on the Bale Feeder. Read and Obey decals.

Following is a list of precautions that must be taken to help prevent personal injury or death:

1. DO NOT START, OPERATE OR SERVICE THIS MACHINE WITH OUT READING AND UNDERSTANDING THIS MANUAL.
2. TURN OFF AND LOCK OUT ELECTRICAL POWER BEFORE ADJUSTING, LUBRICATING, CLEANING OR SERVICING THE BF 1000 BALE FEEDER.
3. KEEP HANDS, FEET AND CLOTHING AWAY FROM ALL MOVING PARTS AND PINCH OR CRUSH POINTS.
4. USE APPROPRIATE TOOLS WHEN WORKING ON THE BF 1000 BALE FEEDER.
5. MAKE CERTAIN EVERYONE IS CLEAR OF THE BF 1000 BEFORE OPERATING ANY PART OF THE MACHINE.
6. DO NOT LEAVE THE BF 1000 OPERATING UNATTENDED.
7. KEEP ALL SHIELDS IN PLACE AND IN SERVICEABLE CONDITION.
8. DO NOT GO NEAR ANY EQUIPMENT UNTIL ALL MOVING PARTS ARE STOPPED.
9. DO NOT GO UNDER ANY RAISED COMPONENTS UNTIL THEY ARE SAFELY BLOCKED.
10. PROVIDE A SUITABLE FIRE EXTINGUISHER NEAR THE MACHINE.
11. REMEMBER "SAFETY" IS ONLY A WORD UNTIL IT IS PUT INTO PRACTICE.

 **WARNING:** SOME ILLUSTRATIONS IN THIS MANUAL SHOW THE BF 1000 WITHOUT SHIELDS TO ALLOW FOR A BETTER VIEW OF THE AREA BEING ADDRESSED. THE BF 1000 SHOULD NEVER BE OPERATED WITH ANY OF THE SAFETY SHIELDS REMOVED.

INTRODUCTION



CAUTION: ALWAYS TURN OFF CONTROL SYSTEM AND LOCKOUT THE ELECTRICAL SUPPLY TO THE MACHINE BEFORE INSPECTING, ADJUSTING OR SERVICING THE MACHINE.

Introduction

Automated bale feeding The Freeman BF 1000 is an efficient, automated tool for unstacking bales of hay. The bales can be easily fed to a conveyor for easy management.

The BF 1000 will hold a 7 tier stack of 56 three tie bales or 68 two tie bales (laying flat or first tier on edge) on its Storage Apron. The BF 1000 will unstack 10 bales per minute. The BF 1000 can be set up for single units or dual units. (Right hand and left hand discharge)

Serial number location The serial number of your BF 1000 is necessary for correct ordering of replacement parts. The serial number is located on the bottom right-hand side cross beam support. (see Fig. 2 page 5)

Replacement parts Genuine Freeman replacement parts should be used. Ensure prompt service by giving the dealer the (1) part description and part number, (2) model number, and (3) serial number.

CONTROL PANEL

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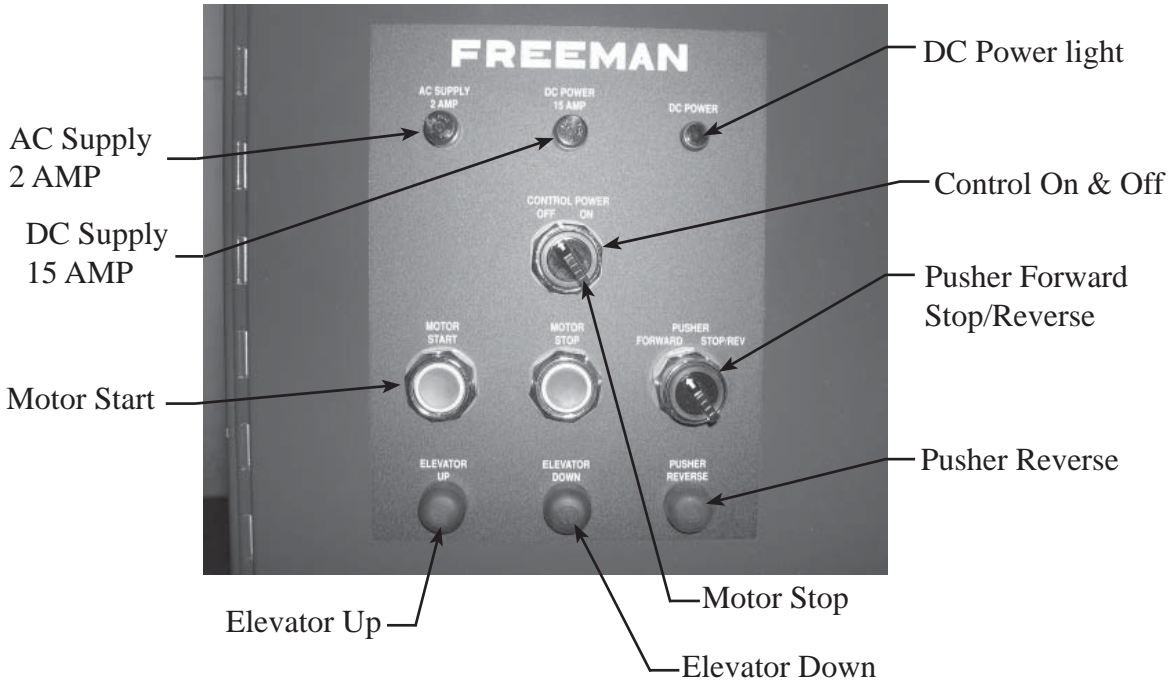
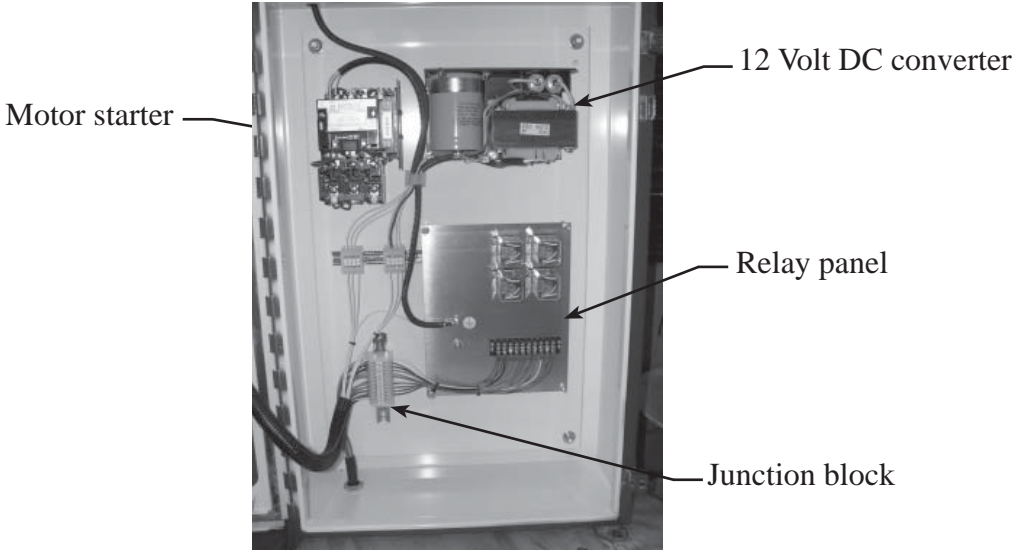
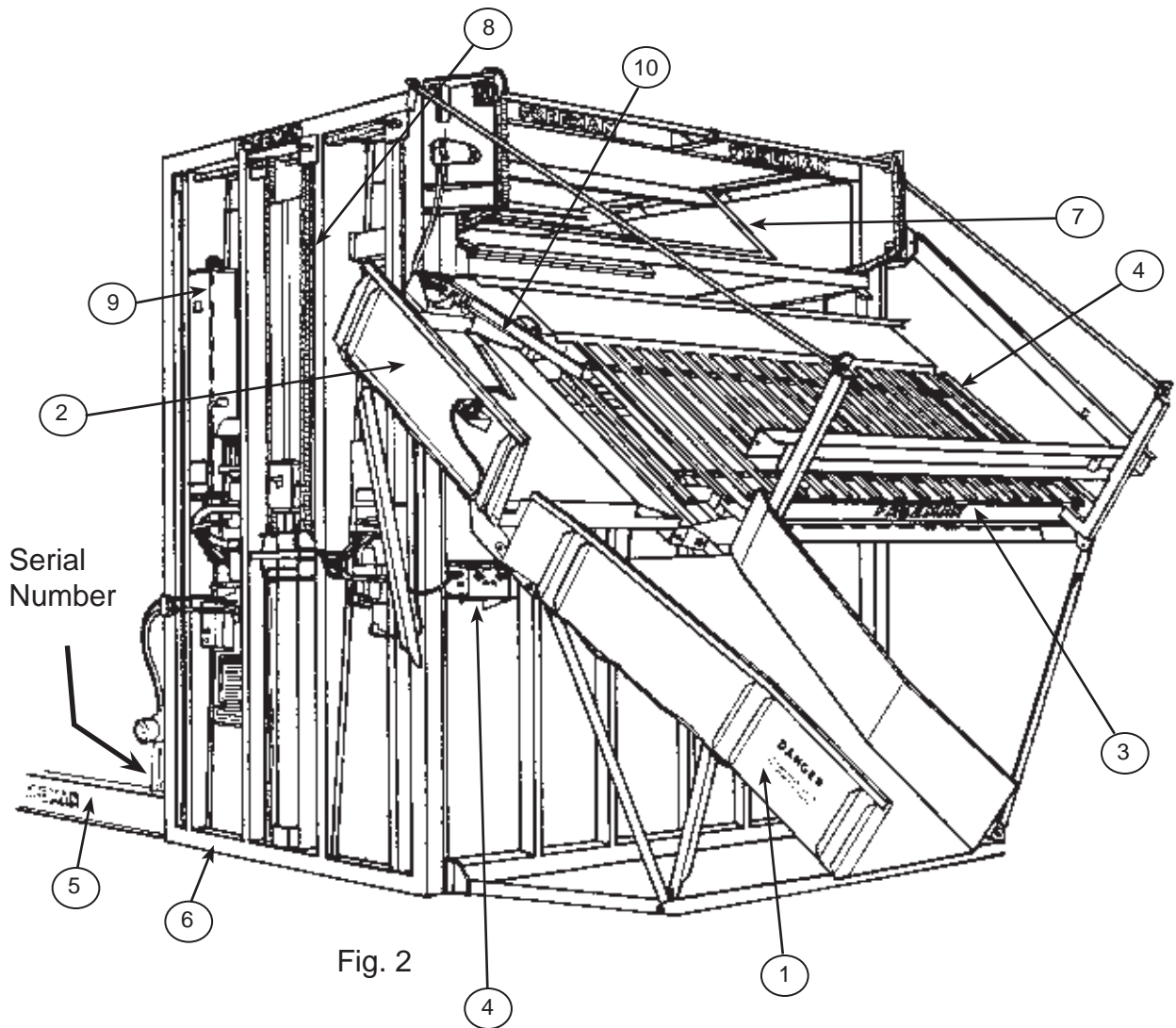


Fig. 1



OVER VIEW



1. Lower Bale Chute
2. Upper Bale Chute
3. Cross Feed Table
4. Cross Feed Conveyor
5. Storage Apron & Elevator Table
6. Main Frame & Brace
7. Index Arms
8. Lift Chains
9. Oil Reservoir
10. Bale Stop

CAUTION: ALWAYS TURN OFF CONTROL SYSTEM AND LOCKOUT THE ELECTRICAL SUPPLY TO THE MACHINE BEFORE INSPECTING, ADJUSTING OR SERVICING THE MACHINE.

INSTALLATION, ELECTRICAL AND HYDRAULICS



CAUTION: ALWAYS TURN OFF CONTROL SYSTEM AND LOCKOUT THE ELECTRICAL SUPPLY TO THE MACHINE BEFORE INSPECTING, ADJUSTING OR SERVICING THE MACHINE.

Mechanical installation

Set up your BF1000 with enough room around it to work safely. Anchor the BF 1000 to the ground.

Refer to your BF1000 parts book to identify parts and their assembly locations. Also contact your dealer or J.A. Freeman & Son with any questions.

Electrical connection

Electric motor: 5hp, 230/460VAC, 3 phase, TEFC, 184T frame.

Electrical & Power supply must be hooked up by a certified electrician.

Refer to your BF1000 parts book and electrical and wiring diagrams for electrical information.

Electrical Schematic 24723E
Wiring Diagram 24710E

Hydraulic system

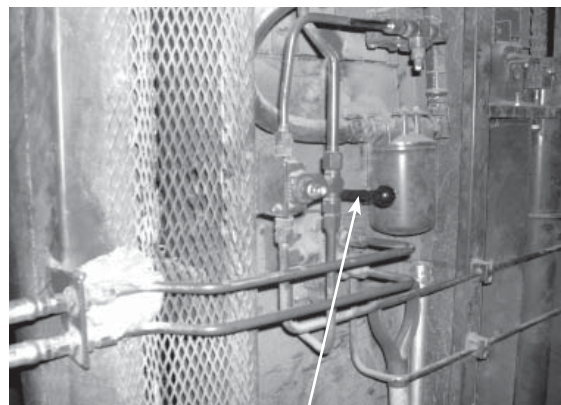
Refer to the BF1000 parts manual and hydraulic schematic for information.

Hydraulic Schematic 23266D



Fig. 3

Oil filter



Apron Push-Bar Lever

Fig. 4

Apron Push-bar (Home Position)



Fig. 5


START UP

1. Make sure everyone is clear and away from the BF1000.
2. Load stack of hay evenly on the storage apron as seen in Fig.7 on page 8.
3. Turn the Pusher switch to Forward and push the motor start button (Fig. 1 page 4). Pull the apron push bar lever (Fig.4 page 6) down to make the push bar move the stack of hay onto the elevator table.
4. Pull the apron lever up when the stack of hay is completely on the elevator table. Do this until the push bar is at its home position. Now you are ready to load another stack. (Home Position illustrated on page 6 Fig. 5)
5. Now push the elevator up button long enough to activate the elevator then release the button. The elevator will automatically lift the stack of hay to its next position. Once the hay passes through the view of the photo eyes, it will activate the upper level push bars. The upper push bar will push the top bales onto the cross feed conveyor. The cross feed conveyor will feed the lower bale chute. Once bales are in the bale chute and in the path of the bale chute photo eyes, the cross feed conveyor will stop until the bale is out of the view of the photo eye and exited the BF1000.

Note: If the top bales become jammed, you can manually reverse the top pusher bar by turning the pusher control switch to STOP/ REVERSE. (Fig. 1 page 4) When the Pusher button is in the STOP/ REVERSE mode, push the PUSHER REVERSE BUTTON (Fig. 1 page 4) to back the top pusher bar away from the bales. Then shut off the Power & Motor, unplug the BF 1000 and Lock Out electrical supply. Once the machine is unjammed, restart the unstack sequence.

OPERATION SEQUENCE

Operation sequence

 **CAUTION: ALWAYS TURN OFF CONTROL SYSTEM AND LOCKOUT THE ELECTRICAL SUPPLY TO THE MACHINE BEFORE INSPECTING, ADJUSTING OR SERVICING THE MACHINE.**

The BF 1000 will hold a 7 tier stack of 56 three tie bales and 68 two tie bales (laying flat or first tier on edge) on its Storage Apron. The BF 1000 will un-stack 10 bales per minute.

Elevator Table

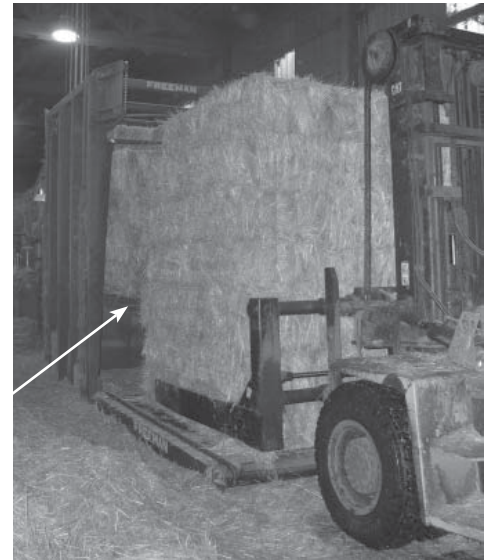


Fig. 6



Fig.7

OPERATION SEQUENCE

CAUTION: ALWAYS TURN OFF CONTROL SYSTEM AND LOCKOUT THE ELECTRICAL SUPPLY TO THE MACHINE BEFORE INSPECTING, ADJUSTING OR SERVICING THE MACHINE.

The BF1000 has photo eyes near the top of the chamber. These are used to stop the elevator at the correct height and to start the top bale pusher. There is a safety bar above the photo eyes if the photo eyes should fail for any reason. Once the bales are in contact with the safety bar, the BF1000 will shut down automatically.



Fig. 8

Once the elevator has raised the stack of hay to the photo eyes, this will stop the elevator and trigger the upper bale pusher. The bale pusher will push the top bales of hay onto the cross feed conveyor.

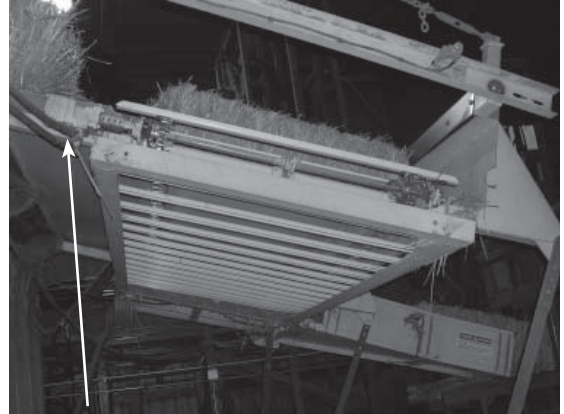


Cross feed conveyor

Fig. 9

OPERATION SEQUENCE

The cross feed conveyor table moves the bales to the lower feed chute



Cross feed conveyor motor Fig.10

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There are 2 photo eyes mounted parallel to each other in the bottom bale chute. These photo eyes control the operation of the cross feed convertor to maintain a continuous supply of bales to the downstream conveying system. The cross feed conveyor will stop when there is a bale in the view of the photo eyes. Once the bale has exited the BF1000 lower bale chute and out of view of the photo eye's, the cross feed table will turn on and feed another bale into the lower bale chute.



Lower bale chute photo eye Fig.11

OIL FILTER & LUBRICANTS

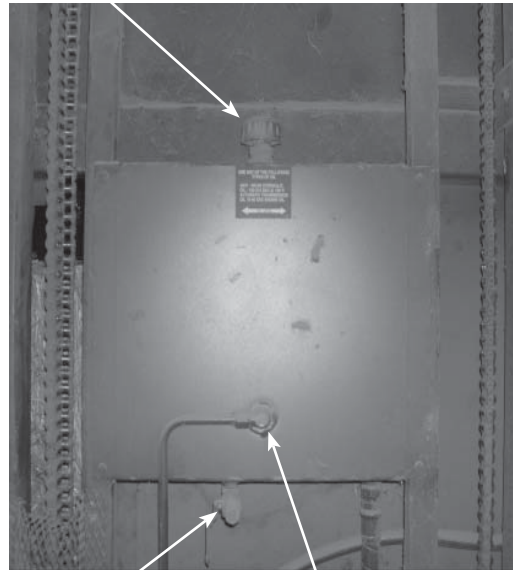
HYDRAULIC OIL:

Chevron AW-46 or equivalent
Capacity: 16 gallon

GREASE:

Multi-purpose grease

Oil tank breather cap



Tank drain valve Oil return line

Fig.12

