Service Manual

MF1844

Three String Baler

VISION INNOVATION LEADERSHIP QUALITY RELIABILITY SUPPORT PRIDE COMMITMENT

MASSEY FERGUSON

Massey Ferguson®

1844
Three String Baler

SERVICE MANUAL
4283475M2

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GENERAL INFORMATION

INTRODUCTION

For additional operation and maintenance information, see the operator manual included with the baler.

The operation and maintenance instructions in this manual come from much field testing and other data. Some information will be general because of varying conditions.

Right-hand and left-hand, as used in this manual, is determined by facing the direction the baler will travel when in use.

Units of Measurement

Measurements are given in metric units of measurement followed by the equivalent in U.S. units. Hardware sizes are given in millimeters for metric hardware and inches for U.S. hardware.

Replacement Parts

To receive quick and efficient service, always remember to give the dealer the following information:

- Correct part description or part number.
- Model number of your baler.
- Serial number of your baler.

Baler Identification

Machine Model No. _____

Machine Serial No. _____

Date of Delivery: _____

Dealer Information

Dealer Name and Address:

_____

_____

_____

Dealer's Telephone No. _____

Dealer's Fax No. _____

Serial Number

FIG. 1: Each baler has a model and serial number on the serial number plate (1). The baler serial number plate is located on the left-hand side of the baler.

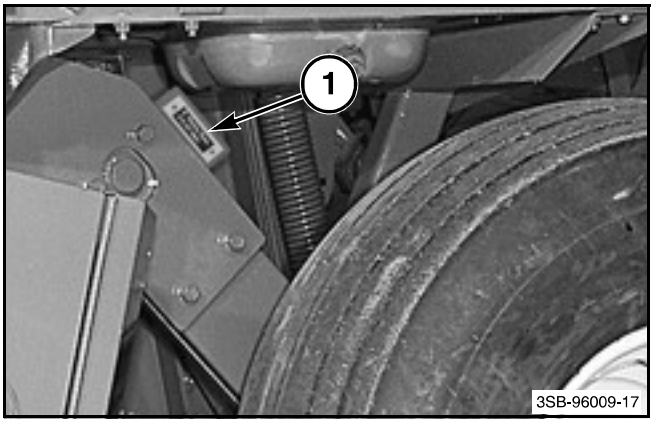

FIG. 1

Operator's Manual Container

FIG. 2: The Operator's Manual container (1) is located under the access panel on the right-hand side of the baler. Keep the Operator's Manual with the baler at all times. Put the maintenance manual in the Operator's Manual container.

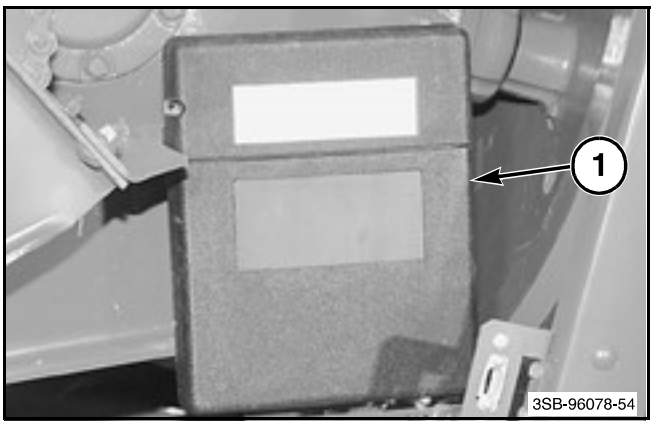

FIG. 2

Description

Drive Train

From the baler clutch, the power is sent through the flywheel and shearbolt. The shearbolt drives the gearbox, which operates the baler's mechanisms. A crank arm on each side of the gearbox drives the plunger. The right-hand crank arm drives an auxiliary shaft that drives the stuffer, the pickup, the knotters, and the needles.

Pickup Clutch

FIG. 3: The pickup clutch (1) protects the pickup assembly. The clutch is both an overrunning clutch and a slip clutch that can not be adjusted.

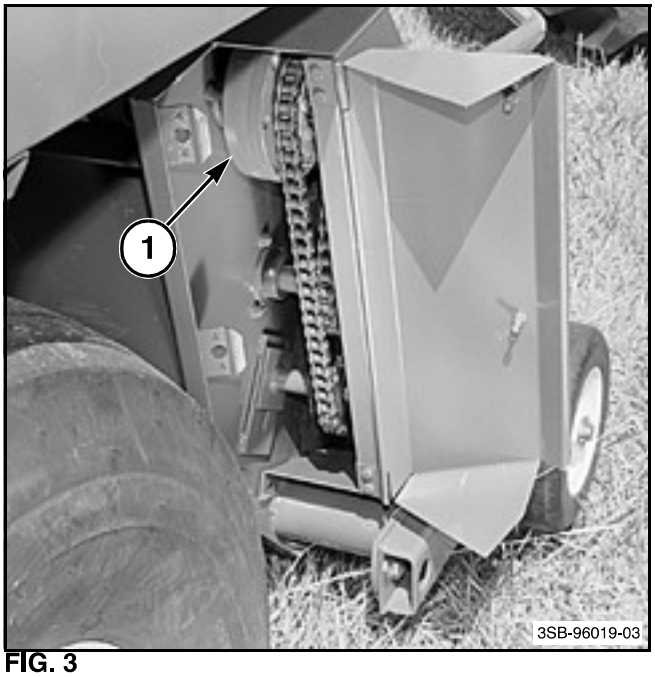

FIG. 3

Pickup and Feeding

The crop is picked up and fed into the baler continuously by a four bar pickup assembly. The height of the tines above the ground is set by the pickup height adjustment gauge plate. Flotation is supplied by a flotation spring that supports much of the weight of the pickup assembly. An adjustable flotation spring carries most of the weight of the pickup. Gauge wheels protect the pickup when baling on ground that is not even.

Two centering augers move material from the ends of the pickup into the center of the pickup. The stuffer fingers move the crop through the charge chamber into the bale chamber. The plunger then compresses the crop against the bale being formed in the bale chamber.

Hydraulic System

The hydraulic system is used to raise and lower the pickup, swing the baler, and to control the bale density. Power is supplied by a pump driven by a belt from the drive shaft connected to the PTO.

Bale Density System

The density and weight of the bale is determined by the amount of resistance to the material moving through the bale chamber. This resistance is determined by the amount of hydraulic pressure applied to the density control rails. Increasing the hydraulic pressure increases the density and the weight of the bale. Decreasing the hydraulic pressure decreases the density and the bale weight.

Electrical System

The baler's 12 volt electrical system supplies power for the baler control console, the working lamps, the flasher warning lamps, tail lamps, and turn signal lamps are controlled by, and receive power from, the towing vehicle's controls.

Baler Control Console

FIG. 4: The baler control console (1) is mounted in the towing vehicle and is used to monitor and control the functions of the baler.

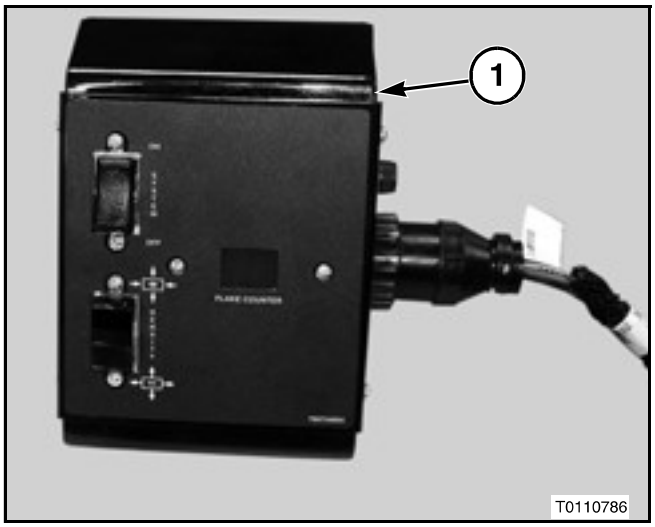

FIG. 4