80M

Compact Excavator

OPERATOR'S MANUAL

PART #50940492

Revision B - 07/18

(English)

machinecatalogic.com

Mustang 80M Compact Excavator Operator Manual

Document type: Operator Manual (operation, controls, safety and routine maintenance)

Brand: Mustang

Models: 80M

Machine: Compact Excavator

Publication No.: 50940492 (Rev. B)

Edition date: July 2018

Language: English

Main contents

- 1. Introduction
- SAFETY
- OPERATION
- MAINTENANCE
- SPECIFICATIONS AND DIMENSIONAL DIAGRAMS
- OPTIONAL PARTS AND ATTACHMENTS

machinecatalogic.com

Sample pages follow. Full manual: machinecatalogic.com

1. Introduction

This Operation and Maintenance Manual for the Mustang 80M Excavator is designed to provide you with important information and suggestions necessary for using the machine with safety and efficiency. Please be sure to read through the manual before using the machine, to make yourself familiar with the procedures and instructions for operating, inspecting and servicing. Keep in mind that failure to observe the precautions given in the manual or using any procedures not prescribed in the manual may cause a serious accident.

⚠ WARNING

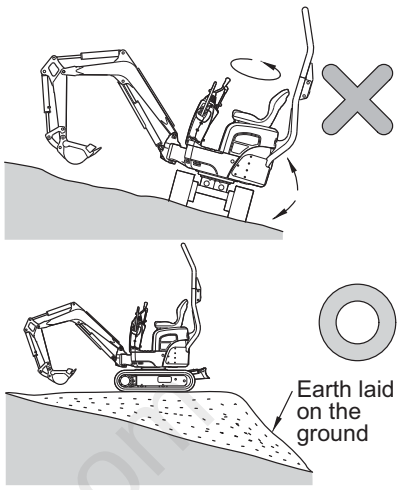
Improper use of the machine may lead to hazards which can result in death or serious injury. Personnel engaged in operating and maintaining the machine are required to familiarize themselves with the contents of the manual before setting about their job.

- **Do not attempt to operate the machine before making yourself familiar with the contents of the manual.**
- **Personnel responsible for using the machine must keep the manual at hand and review it periodically.**
- **If the manual should be lost or damaged, promptly order a new copy from the dealer.**
- **When you transfer the machine to another user, always transfer the manual as well.**
- **We at Mustang provide customers with products in compliance with all applicable your coun-try's regulations and industrial standards. If you are using a Mustang machine purchased abroad, the machine may lack some safety devices. Please consult your dealer to confirm whether or not that machine is in compliance with all applicable your country's regulations and industrial standards.**
- **Some machine specifications may differ from those which are described in this manual be-cause of improvements in its design and performance. If you have any questions about the contents of the manual, don't hesitate to contact your dealer.**
- **Important safety instructions have been presented throughout this manual, and have been summarized in PART ONE : SAFETY. Be sure to review these pages and pay heed to those safety instructions before proceeding to operate the machine.**

machinecatalogic.com

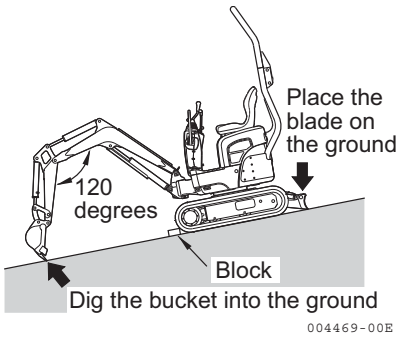
Working on a slope

- Be aware that the machine may tip over when swinging the upperstructure or swinging the implement on a slope.
- Never swing the upperstructure toward the downward side of the slope with earth loaded in the bucket.
  (See the illustration at the upper right.)
- If swinging is unavoidable, level off a work area to maintain the machine as horizontal as possible, then swing.
  (See the illustration at the lower right.)
  For levelling off a work area, refer to Section "13-12. Precautions for going up and down a slope".



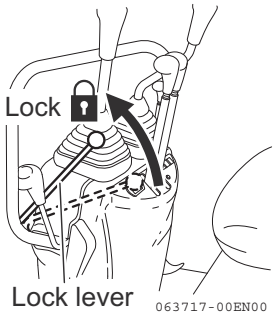
Parking the machine

- Park on level ground. If parking on a slope is unavoidable, block the tracks with solid pieces of wood and dig the bucket into the ground. (See the illustration at right.)



- If necessary to park the machine on the side of a road, set up a warning flag, fence, or lamp that can be easily recognized by passing cars and pedestrians but does not impede them.
  For parking procedures, refer to Section "13-17. Parking the machine".

- When leaving the operator's seat, do the following:
  (1) Be sure to place the bucket on the ground.
  (2) Set the lock levers to the lock position.
  (3) Stop the engine.
  (4) Set all the locks to the lock position.
  (5) Be sure to take the starter switch key out of the starter switch.
  For information about parking procedures, refer to Section "13-17. Parking the machine".
  For information about the parts to be locked, refer to Section "13-21. Locking".



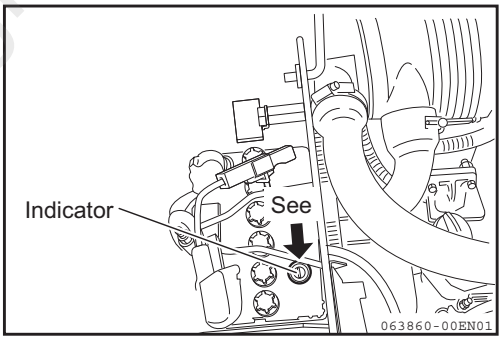
machinecatalogic.com

■ **Checking and replenishing the battery electrolyte**

⚠ DANGER

- **The battery generates flammable gas and can cause a fire and an explosion.**
  Keep sparks, flames and lit cigarettes away from the battery.
- **Battery electrolyte is strong acid. To avoid serious injury, do not allow the electrolyte to contact your skin or splash into your eyes.**
- **Always wear safety goggles and protective clothing, when adding electrolyte.**
- **Do not use the machine with the battery which is short of battery electrolyte. The shortage of battery electrolyte not only will reduce the life of the battery but also could cause an explosion.**

1) Open the engine hood and check the indicator on the battery for the electrolyte level and the amount of charge.



How to read the indicator:

(Blue) : Normal

(Red) : Shortage of battery electrolyte.
: Replenish distilled water.

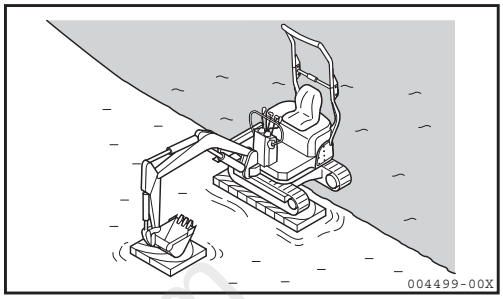
(White) : Shortage of battery charge.
: Recharge the battery.

machinecatalogic.com

13-13. Escaping from the mud

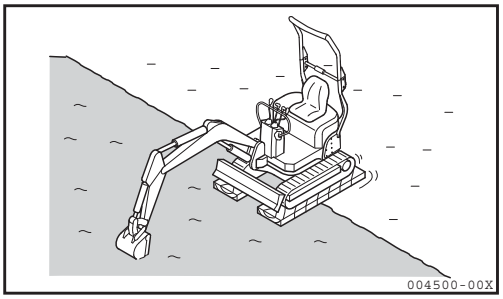
Carefully operate the machine not to allow it to get mired in mud. If the machine is mired in mud, the machine can escape as follows:

13-13-1. If only one crawler frame is mired in the mud
If only one crawler frame is mired in the mud, place the bucket on the muddy side, lift the above the ground, lay a log or a wood block under the crawler, and raise the bucket to escape.



IMPORTANT
When lifting the machine above the ground with the boom or the arm, press on the ground with the bottom of the bucket. (Do not press on the ground with the bucket teeth.)
In doing this, the angle between the boom and the arm should be 90 degrees to 110 degrees.
The same procedure described above should be utilized when the bucket is in the reverse position.

13-13-2. If both crawler frames are mired in the mud If both crawler frames are mired in the mud, lay a log or a wood block under the crawlers in the same manner as mentioned above, dig the bucket into the solid ground, retract the arm just as when excavating, and operate the travel levers for forward travel to escape from the mud.



machinecatalogic.com

14. Transportation

14-1. Loading and unloading the machine

For safety in transporting the machine, comply with all applicable regulations and laws.

⚠ WARNING

- **Be careful when loading and unloading the machine, because it is a job of high hazard potential.**
- **Load or unload the machine on level, solid ground far away from the shoulder of the road.**
- **Load or unload the machine at a low engine speed.**
- **Use ramp plates of adequate strength having hooks. Check to see that the ramp plates are wide, long, and thick enough to safely sustain the machine so that you can load or unload safely. To prevent the ramp plates from bending too much, support them with blocks.**
- **Securely hook the ramp plates to the deck of the truck so that they will not come off.**
- **Remove mud, grease, and other slippery deposits from the undercarriage, and grease, oil, and ice deposits from the ramp plates to prevent the machine from skidding.**
- **Never change the travel direction on the ramp plates. If you need to change the travel direction, go back down on the ramp plates, then do this.**
- **Swing slowly when the truck bed, if it becomes necessary to do so, since the machine's position will be unstable.**
- **Never operate the track gauge change control lever while loading or unloading the variable track gauge type machine.**
- **Widen the track gauge to the maximum when loading or unloading the variable track gauge type machine to or from a truck.**

To load or unload the machine, be sure to use the ramp plates and follow the procedures outlined below.

machinecatalogic.com

24. Maintenance Table

Daily and periodic inspection are important to keep the machine in its best condition. The following is a summary of inspection and servicing requirements by inspection interval. Periodic inspection intervals vary depending on the use, loads, fuels and lube oils used and handling conditions, and are hard to establish definitively. The following should be treated only as a general standard.
When the time for an inspection approaches, study the relevant pages in the Operation & Maintenance Manual. Keep a record of daily operation and the results of maintenance work.

24-1. Table of service time intervals

Check and service points	Page
■ **At first 50 hours (only once after the new machine has started to be used)**	
Replacing the engine oil and the engine oil filter element	3-22
Checking and adjusting the fan belt tension	3-22
■ **At first 100 hours (only once after the new machine has started to be used)**	
Replacing the lube oil for the travel reduction gearbox	3-22
■ **At first 250 hours (only once after the new machine has started to be used)**	
Replacing the hydraulic oil return filter element	3-22
Cleaning the suction filter element in the hydraulic oil tank	3-22
■ **Nonperiodic servicing**	
Checking the rubber crawler	3-23
Checking and adjusting the rubber crawler tension	3-25
Replacing the rubber crawler	3-28
Cleaning the inside of the cooling system	3-31
■ **Checking before start-up**	
Checking and replenishing the cooling water	3-35
Checking and replenishing the engine oil	3-36
Checking and replenishing the fuel in the fuel tank	3-37
Checking and replenishing the hydraulic oil in the hydraulic oil tank	3-38
Checking and adjusting the fan belt tension	3-39
Checking and replenishing the battery electrolyte	3-40
Greasing	3-41
Checking the electrical equipment	3-42

machinecatalogic.com

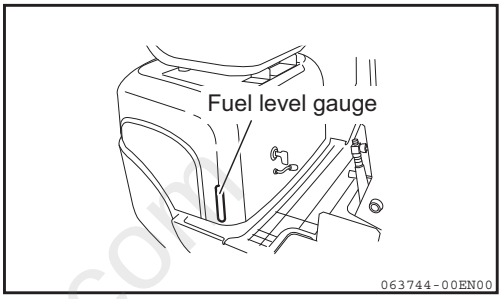
25-3-3. Checking and replenishing the fuel in the fuel tank

⚠ WARNING

Be careful not to overfill the fuel tank because it could cause a fire. If the fuel tank is overfilled, completely wipe off the spilled fuel.

⚠ CAUTION

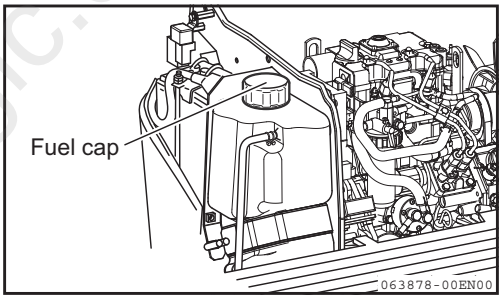
- **Do not remove the strainer from the fuel supply port of the fuel tank when supplying fuel.**
- **Be careful not to allow any water that may be in the fuel container or dirt on the refueling equipment to enter the fuel tank.**



1) Check the fuel level with the fuel gauge on the right side of the machine and the fuel gauge in the front of the fuel tank inside the engine hood.

   Capacity...2.64 Gals. (10.0 L)

   See Section "21. Fueling, Oiling and Greasing Based on Temperature Range" for the fuel to be used.

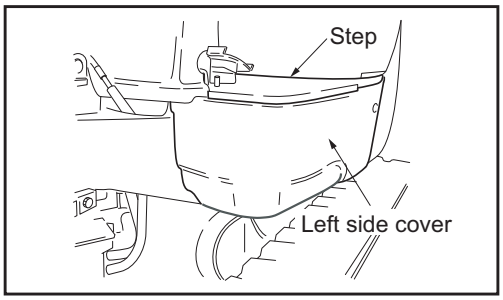


2) After refueling, securely re-tighten the fuel port cap.

machinecatalogic.com

7) Degrease and wash the threads of the plug (P), and replace the O-ring installed onto the plug with a new one.

8) After draining the waste oil, install and tighten the drain plug.
Tightening torque : 43.4 ft•lbf (59 N•m)

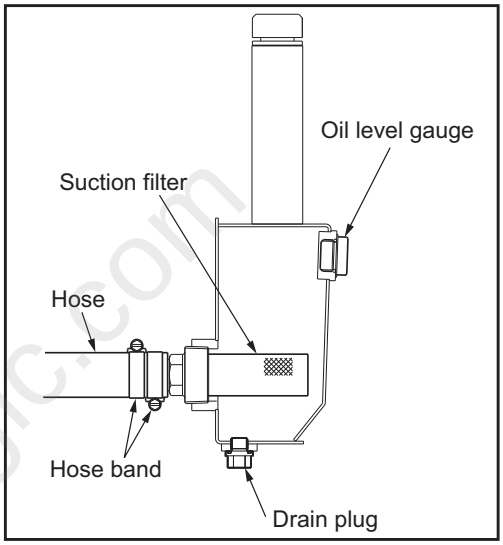


9) Remove the step and left side cover.

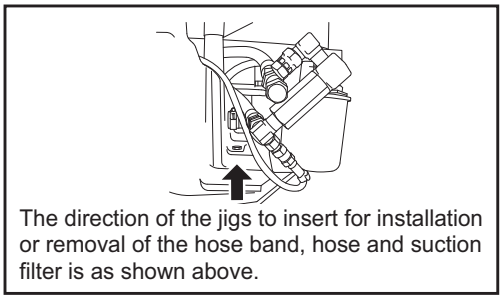
10) Loosen the hose band to remove the hose from the suction filter.

11) Remove the filter to remove the dirt from the filter and the seal tape of the thread, and wash it with clean wash oil or light oil.

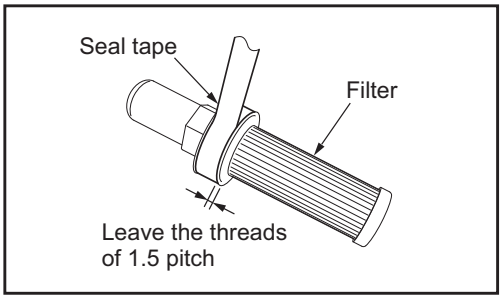
12) Check the filter and the O-ring installed onto it. If the filter or the O-ring is damaged or cracked, replace the filter with a new one and install it in the tank.



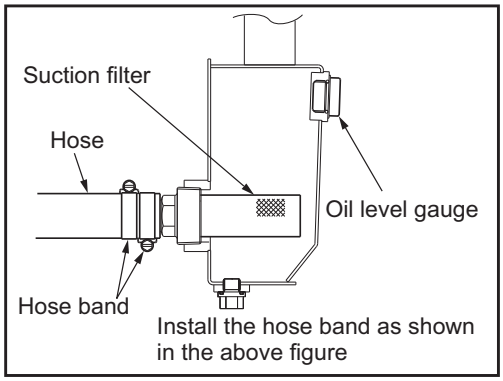
13) Install the filter in the hydraulic oil tank after winding up a new seal tape 1.5 to 2 turns to the thread of filter.
Tightening torque : 57.9 ft•lbf (78.5 N•m)


The direction of the jigs to insert for installation or removal of the hose band, hose and suction filter is as shown above.

IMPORTANT
Do not allow any dirt to enter the tank when installing the filter.



14) Install the hose in the filter, and tighten the hose band.
Tightening torque : 1.8 to 2.5 ft•lbf (2.5 to 3.4 N•m)



machinecatalogic.com

machinecatalogic.com

Full Version Available

Mustang 80M Compact Excavator Operator Manual

Mustang 80M Compact Excavator Operator Manual, 50940492 Rev. B: controls, starting, maintenance table, torque, specifications. Instant PDF download.

VIEW THE FULL MANUAL

https://machinecatalogic.com/mustang-80m-compact-excavator-operator-manual/

Publication No.: 50940492 (Rev. B) · Language: English · Edition: July 2018