

SERVICE MANUAL

FH Series Forklift Truck

Serial No. 138001~

FH40-1**FH45-1****FH50-1****FH**

WARNING

Read and observe all warnings on this unit before operating it.

DO NOT operate this equipment unless all factory-installed guards and shields are properly secured in place.

KOMATSU®**REVISED: SEPTEMBER 2013**

The information and specifications contained herein were accurate at the time of publication, but may change without notice as required for product improvements. Neither Komatsu Forklift U.S.A. nor its parent company nor any of its subsidiaries will be held responsible for damages due to misuse or inappropriate use of its products.

© Copyright 2013, Komatsu Forklift U.S.A., LLC. No part of this document may be photocopied or reproduced in any way without prior written consent of Komatsu Forklift U.S.A.

CONTENTS

	Page No.
00 Foreword	
Safety notice	00-3
How to read the shop manual	00-14
Explanation of terms for maintenance standard	00-16
Handling of electric equipment and hydraulic component	00-18
Handling of connectors newly used for engines	00-27
How to read electric wire code	00-30
Precautions when carrying out operation.	00-33
Standard tightening torque table	00-36
Conversion table	00-40
01 General Information	
Table of Contents.	01-2
Specifications.	01-3
Specification dimensions drawing	01-3
Weight table	01-5
Lubricant list.	01-6
List of specified fuel and lubricant	01-7
10 Structure, function and maintenance standard	
Table of Contents.	10-3
Engine and cooling system	10-5
Engine mount and transfer mount	10-5
Cooling system	10-6
Power train	10-8
Power train.	10-8
Power train system diagram	10-9
PTO	10-10
HST piping diagram	10-13
HST pump	10-14
HST motor	10-26
Axle	10-36
Differential	10-37
Steering system	10-43
Steering piping diagram (control valve - power steering cylinder).	10-43
Orbitrol valve	10-44
Power steering cylinder	10-46

Brake system	10-47
Brake control	10-47
Brake piping diagram (control valve - accumulator)	10-48
Service brake	10-49
Accumulator charge valve	10-51
Brake valve	10-56
Slack adjuster	10-59
Accumulator (for brake)	10-63
Parking brake	10-64
Undercarriage and frame	10-65
Rear axle	10-65
Hydraulic tank piping diagram	10-66
Frame	10-67
Hydraulic system	10-68
Control valve piping diagram (tank - control valve)	10-68
Work equipment piping diagram (control valve - tilt cylinder/lift cylinder)	10-69
Attachment piping diagram	10-70
Work equipment control lever linkage	10-71
Work equipment and steering pump	10-72
Control valve	10-80
CLSS	10-86
Each function and operation of each valve	10-88
Work equipment	10-103
Tilt cylinder	10-103
Electrical system	10-104
Electrical control system	10-104
HST controller	10-126
Engine controller	10-128
Accelerator pedal sensor	10-130
EPACS controller	10-131
Instrument panel	10-133
Pilot box	10-135
DC/DC converter	10-136
KOMTRAX system	10-137
Sensor	10-140
Combination switch	10-150
Seat switch	10-151
Service switch/Preheater lamp	10-152
Flasher unit	10-153
Relay box	10-154

Relay	10-155
20 Standard value table	
Standard value table	20-3
30 Testing and adjusting	
Table of Contents.....	30-2
Testing and adjusting	30-3
Check of failure code of engine controller	30-3
Displaying, setting, checking by using HST controller	30-6
Travel speed control function for general operator	30-8
Setting controlled travel speed	30-9
Maximum travel speed control function	30-11
Banning function of changing controlled travel speed	30-14
Electrical-system abnormality record display function	30-16
Mechanical-system abnormality record display function	30-22
Adjusting function	30-23
Memory clear function	30-30
Automatic engine stop set interval changing function	30-33
Releasing pressure from hydraulic piping	30-35
Replacement of engine oil and engine oil filter	30-36
Replacement of fuel filter	30-38
Fuel pre-filter water drain	30-40
Fuel filter air bleeding	30-41
Radiator cleaning	30-42
Air cleaner inspection and element replacement	30-43
Testing and adjusting engine speed	30-44
Testing and adjusting HST oil pressure	30-46
Testing work equipment and steering pump oil pressure	30-49
Oil level check and changing oil in differential case	30-50
Changing PTO oil and cleaning strainer	30-51
Inspection of hydraulic tank	30-52
Measuring brake performance	30-54
Measurement of wear of service brake disc	30-55
Checking parking brake	30-56
Bleeding air	30-57
Adjusting brake pedal	30-58
Testing and adjusting brake pedal angle sensor linkage	30-59
Initial setting of Orbitrol valve	30-61
Measurement of hydraulic drift and forward tilt down by hydraulic drift of cylinder ...	30-62

It's a preview. You can download the full file by clicking the link below.

<https://shopservicemanual.com/>

Service Manuals from 2\$