KOBELCO

SHOP MANUAL

CRAWLER EXCAVATOR

SK170-8

TIER 3

87634781 NA

Issued 01June 07

MidWestTech | Kobelco SK170-8 Tier 3 Crawler Excavator Service Manual | Publication 87634781

Order the manual at mid-west-tech.com >

CHAPTER 1
SAFETY PRECAUTIONS
TABLE OF CONTENTS

SAFETY PRECAUTIONS 1-3
Generalities 1-3
Starting 1-3
Operating 1-4
Stopping 1-7
MAINTENANCE 1-8
Generalities 1-8
Keep Hands and Clothes Far Off Moving Parts. 1-9
Do Not Smoke. 1-9
Do Not Look at The Welding Arc Without Proper Eye Protection. 1-9
Transfers and Transportation 1-10
Engine 1-10
Electrical System 1-11
Hydraulic System 1-11
Tools 1-11
RECOGNIZE SAFETY INFORMATION 1-12
Environmental Protection 1-12
Follow Safety Precautions 1-13
Prepare For Emergencies 1-13
Wear Protective Clothing 1-14
Protect Against Noise 1-14
Inspect The Machine 1-14
Use Hand Holds And Steps 1-15
Adjust The Operator's Seat 1-15
Fasten Seat Belt 1-15
Move And Operate Machine Safely 1-16
Operate Only From The Driver's Seat 1-16
Do Not Carry Person On The Machine 1-16
Confirm Direction Where The Machine Is To Be Driven 1-17
Avoid Injury From Back Over And Swing Accidents 1-17
Drive Machine Safely 1-18
Avoid Overturning 1-19
Park Machine Safely 1-19
Investigate Job Site Before Operating The Machine 1-20
Protecting Against The Fall Of Rocks And Landslides 1-20
Dig With Caution 1-21
Operate With Caution 1-21
Avoid Electric Lines 1-21
Keep Personnel Clear From Working Area 1-22
Never Move The Bucket Over Any One 1-22
Do Not Operate In Tunnels 1-22
Never Undercut A High Bank 1-23
Safety Loads Moving 1-23
Avoid Excessive Digging Efforts 1-24
Pay Attention When Digging Deeply 1-24
Do Not Use The Traction Force Of The Machine For Digging 1-24
Do Not Use The Turret Swing For Digging 1-25
Do Not Use The Bucket As A Hammer 1-25
Avoid Operating The Cylinders To Full Stroke 1-25
Provide Signals For Jobs Involving A Number Of Machines 1-25
Transporting The Machine Under Safe Conditions 1-26

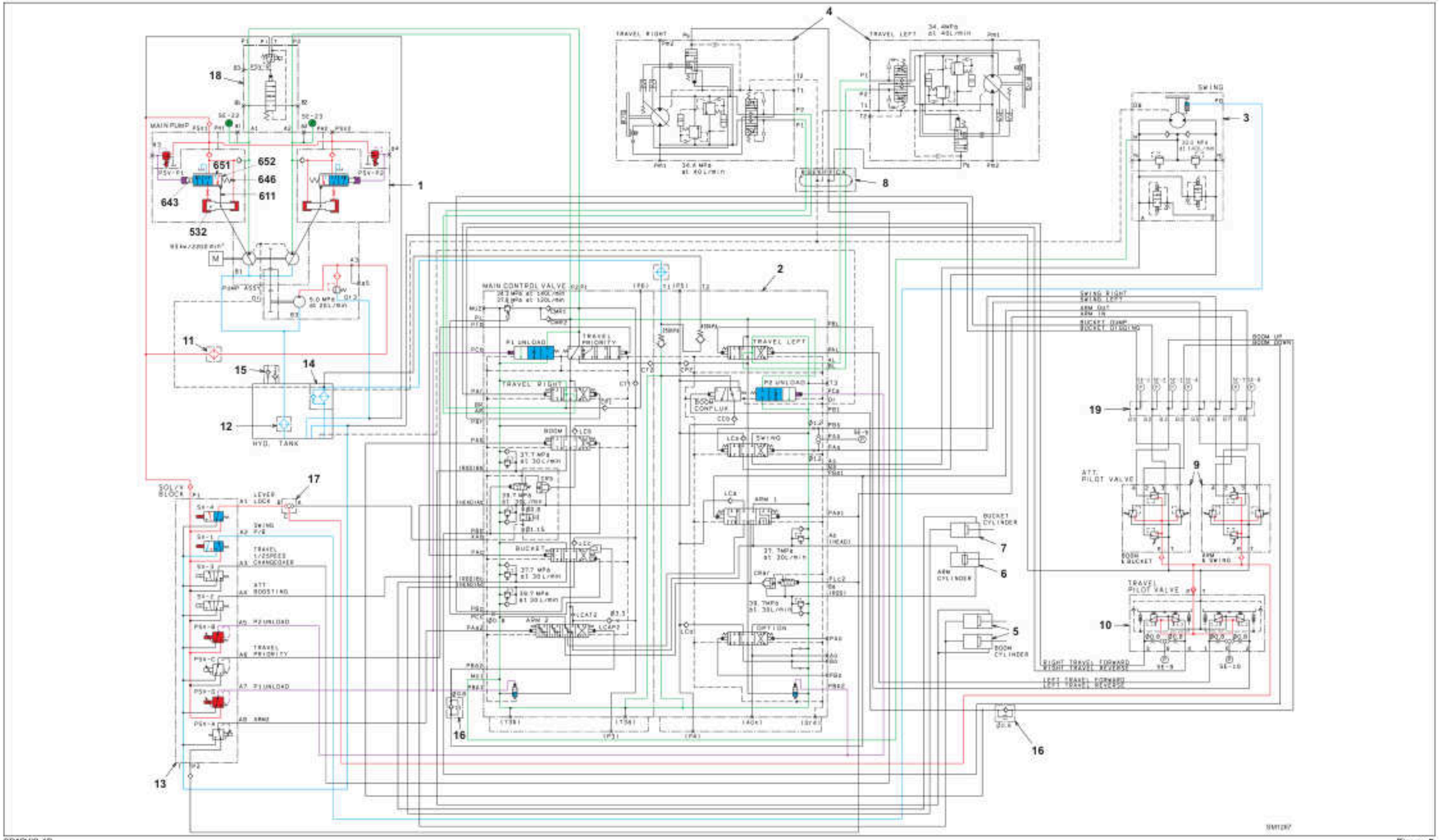
MidWestTech | Kobelco SK170-8 Tier 3 Crawler Excavator Service Manual | Publication 87... Order the manual at mid-west-tech.com >

SAFE MAINTENANCE 1-27
Warn Others Of Service Work 1-28
Support Machine Properly 1-28
Stop The Engine Prior To Performing 1-28
Dispose Of Waste In The Appropriate Manner 1-29
Work In A Clean Area 1-29
Properly Light The Working Area 1-29
Keep Clean The Machine 1-30
Prevent Acid Scalds 1-30
Starting The Engine With Booster Batteries 1-31
Prevent Battery Explosions 1-31
Prevent Burns 1-32
Store Attachments Safely 1-32
Avoid High Pressure Fluids 1-33
Prevent Parts From Flying Off 1-33
Protect Against Flying Debris 1-34
Handle Fluids Safely - Avoid Fires 1-34
Prevent Fires 1-35
Evacuating In Case Of Fire 1-36
Beware Of Exhaust Fumes 1-36
Use Appropriate Tools 1-36
Avoid Heating Near Pressurized Fluid Lines 1-37
Avoid Applying Heat To Lines Containing Flammable Fluids 1-37
Remove Paint Before Welding Or Heating 1-37
Welding Repair Interventions 1-38
SAFETY PLATES 1-39

MidWestTech | Kobelco SK170-8 Tier 3 Crawler Excavator Service Manual | Publication 87... Order the manual at mid-west-tech.com >

SECTION 2 - SYSTEMS
CHAPTER 2 - HYDRAULIC SYSTEM

NEUTRAL CIRCUIT: POSITIVE CONTROL FUNCTION AT SAFETY LOCK LEVER DOWN (UNLOCKED POSITION)



GRAPHIC_1D

Figure 5

MidWestTech | Kobelco SK170-8 Tier 3 Crawler Excavator Service Manual | Publication 87634781

Order the manual at mid-west-tech.com >