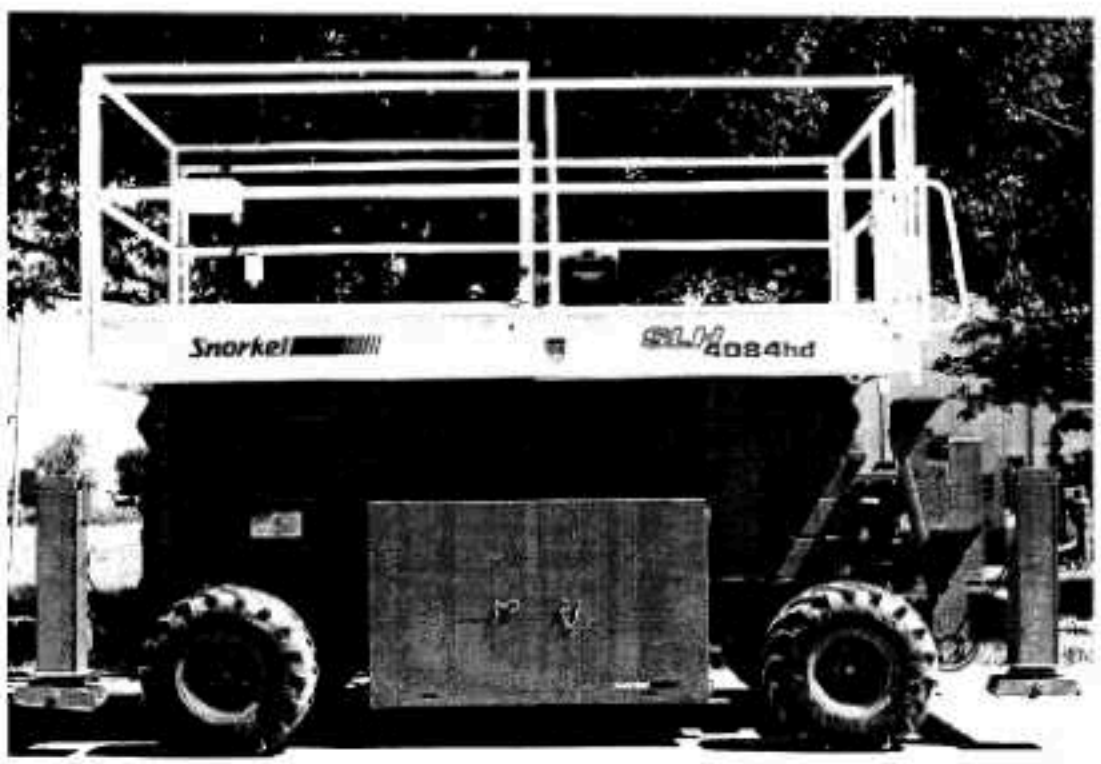
Snorkel

# Operator's Manual

# SLH Series

## diesel – gasoline – LPG




P/N 560245
October, 2000

Snorkel INTERNATIONAL

MidWestTech | Snorkel SLH2580, SLH2584, SLH2584HD, SLH3280, SLH3284, SLH3284H... Order the manual at mid-west-tech.com >

# TABLE OF CONTENTS


**INTRODUCTION** ..... iii
- SIGNS ..... iii
- QUALIFIED OPERATORS ..... iii
- MAINTENANCE ..... iii
- RESPONSIBILITIES OF PARTIES ..... iv
- ADDITIONAL INFORMATION ..... iv

**1. SAFETY** ..... 1 - 1
- SAFE OPERATION ..... 1 - 1
  - Pre-start Inspection ..... 1 - 1
  - Work Place Inspection and Practices ..... 1 - 1
  - Electrocution ..... 1 - 2
  - Tipover & Falling Hazards ..... 1 - 2
  - Crushing ..... 1 - 2
- GENERAL SAFETY PRECAUTIONS ..... 1 - 3
  - Personnel Precautions ..... 1 - 3
  - Operator General Precautions ..... 1 - 3
  - Mounting & Dismounting Precautions ..... 1 - 3
  - Starting and Stopping Precautions ..... 1 - 3
  - Operating Precautions ..... 1 - 3
  - Operator Maintenance Precautions ..... 1 - 3
  - Fuel Handling Precautions ..... 1 - 3
- SAFETY DECALS & PLACARDS ..... 1 - 3

**2. SAFETY DEVICES** ..... 2 - 1
- EMERGENCY STOP SWITCHES ..... 2 - 1
- ALARMS ..... 2 - 1
  - Level Sensor ..... 2 - 2
  - Lowering ..... 2 - 2
  - High Temperature ..... 2 - 2
  - Low Oil Pressure ..... 2 - 2
  - DRIVE (reverse) ..... 2 - 2
  - DRIVE (forward) ..... 2 - 2
- GUARDRAILS ..... 2 - 2
- SAFETY PROP ..... 2 - 2
- SAFETY CHAIN ..... 2 - 2
- SWINGING GATE (option) ..... 2 - 3
- SAFETY CONTROL ..... 2 - 3
- BUBBLE LEVEL (outrigger machines only) ..... 2 - 3
- OPERATOR HORN ..... 2 - 3
- OUTRIGGERS (option) ..... 2 - 3
- GFCI AC OUTLET (option) ..... 2 - 4
- FLASHING LIGHT (option) ..... 2 - 4
- LANYARD ANCHORAGE (option) ..... 2 - 4

**3. SPECIFICATIONS** ..... 3 - 1
- GENERAL SPECIFICATIONS FOR STANDARD MACHINES ..... 3 - 1
- ENGINE DATA ..... 3 - 2
- ENGINE OIL CHARTS ..... 3 - 2
- HYDRAULIC FLUID RECOMMENDED ..... 3 - 2
- NOMENCLATURE & SERIAL NUMBERS ..... 3 - 3

**4. GAUGES** ..... 4 - 1
- WATER ..... 4 - 1
- AIR FILTER ..... 4 - 1
- AMPS ..... 4 - 1
- ENGINE OIL ..... 4 - 1
- HOURS ..... 4 - 2
- FUEL LEVEL (option) ..... 4 - 2
- HYDRAULIC OIL LEVEL ..... 4 - 2
- BUBBLE LEVEL (outrigger machines only) ..... 4 - 2
- COOLANT ..... 4 - 2

**5. AUTOMATIC SHUT-OFFS & CIRCUIT BREAKERS** ..... 5 - 1
- AUTOMATIC SHUT-OFFS ..... 5 - 1
  - Level Sensor ..... 5 - 1
  - Engine Temperature ..... 5 - 1
  - Engine Oil Pressure ..... 5 - 1
  - Platform Height vs. Drive Speed ..... 5 - 1
  - Parking Brakes ..... 5 - 1
  - Dynamic Brakes ..... 5 - 1
  - Alternator Not Charging ..... 5 - 2
  - Outriggers (option) ..... 5 - 2
  - Hydraulic Generator (option) ..... 5 - 2
- CIRCUIT BREAKERS ..... 5 - 2
  - Main Breaker ..... 5 - 2
  - Hydraulic Generator Circuit Breaker (option) ..... 5 - 2
  - GFCI Outlet (option) ..... 5 - 2

**6. CONTROLS** ..... 6 - 1
- HYDRAULIC COMPARTMENT ..... 6 - 2
- BASE-CONTROL PANEL ..... 6 - 2
- PLATFORM-CONTROL BOX ..... 6 - 4

**7. OPERATION** ..... 7 - 1
- OPERATING FROM THE BASE-CONTROL PANEL ..... 7 - 1
  - Starting a Gasoline, LP-only, or Dual-fuel Engine ..... 7 - 1
  - Starting a Diesel Engine ..... 7 - 2
  - Raising the Platform ..... 7 - 3
  - Warming the Hydraulic Oil ..... 7 - 3
- OPERATING FROM THE PLATFORM-CONTROL BOX ..... 7 - 4
  - Starting a Gasoline, LP-only, or Dual-fuel Engine ..... 7 - 4
  - Starting a Diesel Engine ..... 7 - 5
  - Driving ..... 7 - 6
  - Raising the Platform ..... 7 - 7
- SETTING THE OUTRIGGERS ..... 7 - 7
- EXTENDING THE TWO-POSITION PLATFORM ..... 7 - 8

**8. EMERGENCY OPERATION** ..... 8 - 1
- EMERGENCY STOP ..... 8 - 1
- EMERGENCY BLEED-DOWN ..... 8 - 1
- PUSHING ..... 8 - 2

**9. STOWING & TRANSPORTING** ..... 9 - 1
- STOWING ..... 9 - 1
- TRANSPORTING ..... 9 - 1
  - Trailering ..... 9 - 1
  - Securing to a Transport Vehicle ..... 9 - 3
  - Towing ..... 9 - 3
  - Lifting ..... 9 - 3
  - Pushing ..... 9 - 3

**10. DAILY INSPECTION & MAINTENANCE** ..... 10 - 1
- DAILY INSPECTION AND MAINTENANCE TABLE ..... 10 - 1
- PLACARDS AND DECALS INSPECTION CHART ..... 10 - 10
- PLACARDS AND DECALS INSPECTION DRAWING ..... 10 - 11

**11. TROUBLESHOOTING** ..... 11 - 1

**12. OPTIONS** ..... 12 - 1
- OPERATOR HORN ..... 12 - 1
- OUTRIGGERS ..... 12 - 1
- GFCI OUTLET ..... 12 - 1
- BIG PAW TIRES ..... 12 - 1
- FLASHING LIGHT ..... 12 - 2
- ELECTRICAL OUTLET ..... 12 - 2
- SWINGING GATE ..... 12 - 2
- SPARK ARRESTOR ..... 12 - 3
- LANYARD ANCHOR POINTS ..... 12 - 3
- AC GENERATOR ..... 12 - 3

**13. FIRE FIGHTING & HAZARDOUS CHEMICAL CONTAINMENT** ..... 13 - 1
- ANTI-FREEZE ..... 13 - 1
- BATTERY, LEAD/ACID ..... 13 - 1
- DIESEL FUEL ..... 13 - 1
- FOAM IN TIRES ..... 13 - 1
- GASOLINE ..... 13 - 2
- HYDRAULIC OIL ..... 13 - 2
- LIQUEFIED PETROLEUM GAS ..... 13 - 2
- MOTOR OIL ..... 13 - 2

**INDEX** ..... I - 1
**WARRANTY** ..... **(inside back cover)**





MidWestTech | Snorkel SLH2580, SLH2584, SLH2584HD, SLH3280, SLH3284, SLH328... Order the manual at mid-west-tech.com >