

# CONTENTS

## FOREWORD

A message to hyundai lift truck operators .....	0-1
Introduction .....	0-2
How to use this manual .....	0-3
EC regulation approved .....	0-5
Safety labels .....	0-6
Guide (Direction, Serial number, Symbols) .....	0-18

## 1. SAFETY HINTS

1. Daily inspection .....	1-1
2. Do's and don'ts .....	1-2
3. Seat belts .....	1-4
4. No riders .....	1-5
5. Pedestrians .....	1-6
6. Operator protection .....	1-7
7. Fork safety .....	1-8
8. Pinch points .....	1-9
9. Travel .....	1-10
10. Grades, ramps, slopes and inclines .....	1-11
11. Tip over .....	1-12
12. Surface and capacity .....	1-14
13. Parking .....	1-15
14. Refueling .....	1-16
15. Step .....	1-17
16. Operator's safety rules .....	1-18
17. Side shift .....	1-19

## 2. OPERATING HAZARDS

1. Loose loads .....	2-1
2. Long and wide loads .....	2-2
3. Rear swing .....	2-2
4. Low overhead clearance .....	2-3
5. Fast turns and high loads .....	2-3
6. Right angle stacking .....	2-4
7. Chain slack .....	2-4
8. Pallets and skids .....	2-5
9. Caution for electrical lines .....	2-5

10. Lifting loads .....	2-6
11. Side shift .....	2-7
12. Fork positioner .....	2-8

### **3. KNOW YOUR TRUCK**

1. General locations .....	3-1
2. Data/safety plate and decal .....	3-2
3. Cab devices .....	3-4
4. Cluster .....	3-5
5. Transmission message indicator .....	3-36
6. Switches .....	3-39
7. Control device .....	3-47
8. Air conditioner and heater .....	3-52
9. Others .....	3-55

### **4. OPERATOR MAINTENANCE AND CARE**

1. Daily safety inspection .....	4-1
2. Suggestion for new truck .....	4-3
3. Fuel safety practices .....	4-4
4. Engine oil service interval and management .....	4-5

### **5. STARTING AND OPERATING PROCEDURES**

1. Before operating the truck .....	5-1
2. Check before operation .....	5-2
3. Check before starting engine .....	5-3
4. Seat adjustment .....	5-8
5. Starting from a safe condition .....	5-13
6. General starting and operating tips .....	5-14
7. Starting and stopping the engine .....	5-15
8. Warming-up operation .....	5-20
9. Levers and pedals .....	5-21
10. Traveling of the truck .....	5-24
11. Operating safely .....	5-28
12. Load handling .....	5-30
13. Shut down procedure .....	5-36
14. Storage .....	5-37
15. Transport .....	5-38
16. Loading and unloading by crane .....	5-39
17. Removal type counterweight .....	5-40

## **6. EMERGENCY STARTING AND TOWING**

1. How to tow a disabled truck .....	6-1
2. Parking brake release .....	6-3
3. How to use battery jumper cables .....	6-4

## **7. PLANNED MAINTENANCE AND LUBRICATION**

1. Introduction .....	7-1
2. Safe maintenance practices .....	7-2
3. Instructions before maintenance .....	7-5
4. Planned maintenance intervals .....	7-8
5. How to perform planned maintenance .....	7-13
6. Service instruction .....	7-18
7. Electrical system.....	7-52
8. Air conditioner and heater .....	7-53
9. Replacement and check .....	7-55
10. Handling truck in extremely hot places .....	7-64
11. Cold weather operation .....	7-65
12. Recommendation table for lubricants .....	7-66
13. Fuel and lubricants .....	7-67

## **8. SPECIFICATIONS**

1. Specification table .....	8-1
2. Specification for major components .....	8-2
3. Tightening torque .....	8-4

## **9. TROUBLESHOOTING**

1. Engine system .....	9-1
2. Electrical system .....	9-2
3. Torque flow system .....	9-3
4. Steering system .....	9-7
5. Brake system .....	9-8
6. Hydraulic system .....	9-9
7. Mast and fork .....	9-10

## **10. TESTING AND ADJUSTING**

1. Engine system .....	10-1
2. Drive system .....	10-4
3. Travel system .....	10-6
4. Steering system .....	10-7