

## FOREWORD

|                                                 |      |
|-------------------------------------------------|------|
| A message to hyundai lift truck operators ..... | 0-1  |
| Introduction .....                              | 0-2  |
| How to use this manual .....                    | 0-3  |
| Safety labels .....                             | 0-5  |
| Guide (Direction, Serial number, Symbols) ..... | 0-11 |

## 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. Drop-offs .....                     | 2-4 |
| 7. Right angle stacking .....          | 2-4 |
| 8. Chain slack .....                   | 2-5 |
| 9. Pallets and skids .....             | 2-5 |
| 10. Caution for electrical lines ..... | 2-6 |

|                           |     |
|---------------------------|-----|
| 11. Lifting loads .....   | 2-7 |
| 12. Side shift .....      | 2-7 |
| 13. Fork positioner ..... | 2-9 |

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

|                                        |      |
|----------------------------------------|------|
| 1. General locations .....             | 3-1  |
| 2. Data/safety plates and decals ..... | 3-2  |
| 3. Instruments and controls .....      | 3-4  |
| 4. Cluster .....                       | 3-5  |
| 5. Operating lever and switch .....    | 3-39 |

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

|                                                     |     |
|-----------------------------------------------------|-----|
| 1. Daily safety inspection .....                    | 4-1 |
| 2. Fuel safety practices .....                      | 4-3 |
| 3. Engine oil service interval and management ..... | 4-4 |

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

|                                              |      |
|----------------------------------------------|------|
| 1. Before operating the truck .....          | 5-1  |
| 2. Check before starting .....               | 5-2  |
| 3. Check before starting engine .....        | 5-3  |
| 4. Seat adjustment .....                     | 5-7  |
| 5. Starting from a safe condition .....      | 5-8  |
| 6. General starting and operating tips ..... | 5-9  |
| 7. Starting the engine .....                 | 5-10 |
| 8. Check after starting engine .....         | 5-11 |
| 9. Levers and pedals .....                   | 5-13 |
| 10. Operating safely .....                   | 5-15 |
| 11. Load handling .....                      | 5-17 |
| 12. Shut down procedure .....                | 5-23 |

### **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. Maintenance chart .....                         | 7-13 |
| 6. How to perform planned maintenance .....        | 7-15 |
| 7. Replacement and check .....                     | 7-18 |
| 8. Lubrication chart .....                         | 7-34 |
| 9. Greasing point .....                            | 7-35 |
| 10. Handling machine in extremely hot places ..... | 7-36 |
| 11. Cold weather operation .....                   | 7-37 |
| 12. Storage .....                                  | 7-38 |
| 13. Transport .....                                | 7-39 |
| 14. Loading and unloading by crane .....           | 7-40 |
| 15. Recommendation table for lubricants .....      | 7-41 |
| 16. Fuel and lubricants .....                      | 7-42 |

## 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 |

## 10. TESTING AND ADJUSTING

|                          |      |
|--------------------------|------|
| 1. Engine system .....   | 10-1 |
| 2. Drive system .....    | 10-4 |
| 3. Travel system .....   | 10-7 |
| 4. Steering system ..... | 10-8 |