

# **Service Manual**

# **Chassis & Mast**

| GC35K     | AT87-00001-up<br>AT87A-00001-up | GC55K     | AT88-00001-up<br>AT88A-00001-up |
|-----------|---------------------------------|-----------|---------------------------------|
| GC40K     | AT87-00001-up<br>AT87A-00001-up | GC55K STR | AT88-00001-up<br>AT88A-00001-up |
| GC40K STR | AT87-00001-up<br>AT87A-00001-up | GC60K     | AT89-00001-up<br>AT89A-00001-up |
| GC45K SWB | AT87-00001-up<br>AT87A-00001-up | GC70K     | AT89-00001-up<br>AT89A-00001-up |
| GC45K     | AT88-00001-up<br>AT88A-00001-up | GC70K STR | AT89-00001-up<br>AT89A-00001-up |

### FOREWORD

This service manual is a guide to servicing of Cat Lift Trucks for 3.5 thru 7.0 ton models. The instructions are grouped by systems to serve the convenience of your ready reference.

Long productive life of your lift trucks depends to a great extent on correct servicing — the servicing consistent with what you will learn from this service manual. We hope you read the respective sections of this manual carefully and know all the components you will work on before attempting to start a test, repair or rebuild job.

The descriptions, illustrations and specifications contained in this manual were of the trucks of serial numbers in effect at the time it was approved for printing. Cat Lift Trucks reserves the right to change specifications or design without notice and without incurring obligation.

The GM4.3L engine's fuel system was changed to comply with the EPA guidelines. This manual has minimal information on the fuel systems. Please see the Fuel System Supplement for information regarding the Multi Port Fuel Injection System (MPFI). For the items pertaining to the engines, refer to the following service manuals:

- GM4.3L (G6) Engine Service Manual
- GM4.3L Fuel System Supplement

#### SAFETY RELATED SIGNS

The following safety related signs are used in this service manual to emphasize important and critical instructions:

| <b>A</b> WARNING       | Indicates a specific potential hazard resulting in serious bodily injury or death.                                      |
|------------------------|---|
| ( <b><u>AUTION</u></b> | Indicates a specific potential<br>hazard resulting in bodily<br>injury, or damage to, or<br>destruction of the machine. |
| NOTE                   | Indicates a condition that can<br>cause damage to, or shorten<br>service life of the machine.                           |

#### A WARNING

SAFETY

# **A** WARNING

The proper and safe lubrication and maintenance for this lift truck, recommended by Mitsubishi, are outlined in the OPERATION & MAINTENANCE MANUAL for these trucks.

Improper performance of lubrication or maintenance procedures is dangerous and could result in injury or death. Read and understand the OPERATION & MAINTENANCE MANUAL before performing any lubrication or maintenance.

The serviceman or mechanic may be unfamiliar with many of the systems on this truck. This makes it important to use caution when performing service work. A knowledge of the system and/or components is important before the removal or disassembly of any component.

Because of the size of some of the truck components, the serviceman or mechanic should check the weights noted in this Manual. Use proper lifting procedures when removing any components.

Following is a list of basic precautions that should always be observed.

- 1. Read and understand all warning plates and decals on the truck before operating, lubricating or repairing the product.
- 2. Always wear productive glasses and protective shoes when working around trucks. In particular, wear protective glasses when pounding on any part of the truck or its attachments with a hammer or sledge. Use welders gloves, hood/goggles, apron and other protective clothing appropriate to the welding job being performed. Do not wear loose-fitting or torn clothing. Remove all rings from fingers when working on machinery.
- 3. Do not work on any truck that is supported only by lift jacks or a hoist. Always use blocks or jack stands to support the truck before performing any disassembly.

# **A** WARNING

Do not operate this truck unless you have read and understand the instructions in the OPERATION & MAINTENANCE MANUAL. Improper truck operation is dangerous and could result in injury or death.

- 4. Lower the forks or other implements to the ground before performing any work on the truck. If this cannot be done, make sure the forks or other implements are blocked correctly to prevent them from dropping unexpectedly.
- 5. Use steps and grab handles (if applicable) when mounting or dismounting a truck. Clean any mud or debris from steps, walkways or work platforms before using. Always face truck when using steps, ladders and walkways. When it is not possible to use the designed access system, provide ladders, scaffolds, or work platforms to perform safe repair operations.
- 6. To avoid back injury, use a hoist when lifting components which weighs 23 kg (50 lb.) or more. Make sure all chains, hooks, slings, etc., are in good condition and are of the correct capacity. Be sure hooks are positioned correct-ly. Lifting eyes are not to be side loaded during a lifting operation.
- 7. To avoid burns, be alert for hot parts on trucks which have just been stopped and hot fluids in lines, tubes and compartments.
- 8. Be careful when removing cover plates. Gradually back off the last two bolts or nuts located at opposite ends of the cover or device and pry cover loose to relieve any spring or other pressure, before removing the last two bolts or nuts completely.
- 9. Be careful when removing filler caps, breathers and plugs on the truck. Hold a rag over the cap or plug to prevent being sprayed or splashed by liquid under pressure. The danger is even greater if the truck has just been stopped because fluids can be hot.

- 10. Always use tools that are in good condition and be sure you understand how to use them before performing any service work.
- 11. Reinstall all fasteners with same part number. Do not use lesser quality fastener if replacements are necessary. Do not mix metric fastener with standard nuts and bolts.
- 12. If possible, make all repairs with the truck parked on a level, hard surface. Block truck so it does not roll while working on or under truck.
- 13. Disconnect battery and discharge any capacitors (electric trucks) before starting to work on truck. Hang "Do not Operate" tag in the Operator's Compartment.
- 14. Repairs, which require welding, should be performed only with the benefit of the appropriate reference information and by personnel adequately trained and knowledgeable in welding procedures. Determine type of metal being welded and select correct welding procedure and electrodes, rods or wire to provide a weld metal strength equivalent at least to that of parent metal.
- 15. Do not damage wiring during removal operation. Reinstall the wiring so it is not damaged nor it will be damaged in operation by contacting sharp corners, or by rubbing against some object or hot surface. Do not connect wiring to a line containing fluid.
- 16. Be sure all protective devices including guards and shields are properly installed and functioning correctly before starting a repair. If a guard or shield must be removed to perform the repair work, use extra caution.
- 17. Always support the mast and carriage to keep carriage or attachments raised when maintenance or repair work is performed, which requires the mast in the raised position.

- 18. Loose or damaged fuel, lubricant and hydraulic lines, tubes and hoses can cause fires. Do not bend or strike high pressure lines or install ones which have been bent or damaged. Inspect lines, tubes and hoses carefully. Do not check for leaks with your hands. Pin hole (very small) leaks can result in a high velocity oil stream that will be invisible close to the hose. This oil can penetrate the skin and cause personal injury. Use cardboard or paper to locate pin hole leaks.
- 19. Tighten connections to the correct torque. Make sure that all heat shields, clamps and guards are installed correctly to avoid excessive heat, vibrations or rubbing against other parts during operation. Shields that protect against oil spray onto hot exhaust components in event of a line, tube or seal failure, must be installed correctly.
- 20. Relieve all pressure in air, oil or water systems before any lines, fittings or related items are disconnected or removed. Always make sure all raised components are blocked correctly and be alert for possible pressure when disconnecting any device from a system that utilizes pressure.
- 21. Do not operate a truck if any rotating part is damaged or contacts any other part during operation. Any high speed rotating component that has been damaged or altered should be checked for balance before reusing.

### HOW TO READ THIS MANUAL

#### **Disassembly diagram (example)**



# Suggestion for disassembly

(1) Output shaft removal



Symbols or abbreviations

| OP    | .Option  |
|-------|--|
| R1/4  | .Taper pipe thread (external) 1/4 inch (formerly PT1/4)      |
| Rc1/8 | .Taper pipe thread (internal) 1/8 inch (formerly PT1/8)      |
| G1/4A | .Straight pipe thread (external) 1/4 inch (formerly PF1/4-A) |
| Rp1/8 | .Straight pipe thread (internal) 1/8 inch (formerly PS1/8)   |

# **Vehicle Exterior**

• This Service Manual deals with all components or systems of the Cat Lift Trucks; except for the engine and attachment, which are covered in the respective manuals.



102530A

#### Models

This manual applies to the following vehicle models (names).

| Truck Models | Transmission | Serial number                   | Engine mounted         |  |
|--------------|--------------|---------------------------------|------------------------|--|
| GC35K        |              |                                 |                        |  |
| GC40K        |              |                                 |                        |  |
| GC40K<br>STR |              | AT87-00001-up<br>AT87A-00001-up |                        |  |
| GC45K<br>SWB | 1-Speed      |                                 |                        |  |
| GC45K        |              |                                 | GM4.3L Gasoline Engine |  |
| GC55K        |              | AT88-00001-up<br>AT88A-00001-up |                        |  |
| GC55K<br>STR |              |                                 |                        |  |
| GC60K        |              |                                 |                        |  |
| GC70K        | Automatic    | AT89-00001-up                   |                        |  |
| GC70K<br>STR | 2-Speed      | AT89A-00001-up                  |                        |  |

## **Serial Number Locations**



# **Chassis and Mast Model Identification**





# Dimensions



## **Technical Data**

Unit: mm (in.)

| Ref.<br>No.     | Items  | Truck Models        | GC35K                                | GC40K                              | GC40K<br>STR                         | GC45K<br>SWB                       |  |  |
|-----------------|--|---------------------|--------------------------------------|------------------------------------|--------------------------------------|------------------------------------|--|--|
| Α               | Maximum lift                                 | Simplex mast        |                                      | 3050 (120)                         |                                      |                                    |  |  |
|                 |  | Simplex mast        |                                      | 150 (5.9)                          |                                      | 160 (6.3)                          |  |  |
| В               | Free lift<br>(Floor to                       | Duplex mast         | 3.                                   | 920 (36.2)<br>3.0 m (118 in.) mast |                                      |                                    |  |  |
|                 | forktop)                                     | Triplex mast        | 4.                                   | 800 (31.5)<br>0 m (157 in.) ma     | ıst                                  | 920 (36.2)<br>4.3 m (169 in.) mast |  |  |
| C               | Fork length                                  |                     |                                      | 1220                               | (48)                                 |                                    |  |  |
| D               | Tilt angle<br>(forward – bac                 | kward) deg.         |                                      | 5/10 Simplex<br>6/5 Trip           | , Duplex mast<br>lex mast            |                                    |  |  |
| Е               | Overall length (OLH)                         |                     | 2510 (98.5)                          | 2550 (100)                         | 2360 (93)                            | 2620 (103)                         |  |  |
| Б               | Overall width Standard                       |                     | 1180 (46.5)                          |                                    |                                      |                                    |  |  |
| Г (outside)     |  | Wide tread (option) |                                      |                                    |                                      |                                    |  |  |
| G               | Overall height<br>(to top of mast lowered)   |                     | 2155 (85.0)                          |                                    |                                      |                                    |  |  |
| Н               | Overall height<br>(to top of overhead guard) |                     | 2155 (85.0)                          |                                    |                                      |                                    |  |  |
|                 |  | Simplex mast        | 4250 (167)                           |                                    |                                      | 4125 (162)                         |  |  |
| Ι               | Overall height (mast extended)               | Duplex mast         | 4250 (167)<br>3.0 m (118 in.) mast   |                                    | 4080 (160.6)<br>2.8 m (112 in.) mast |                                    |  |  |
|                 |  | Triplex mast        | 5250 (206.7)<br>4.0 m (157 in.) mast |                                    | 5560 (218.9)<br>4.3 m (169 in.) mast |                                    |  |  |
| т               | Ture 1 (from t)                              | Standard            | 940 (37.0)                           |                                    |                                      |                                    |  |  |
| J Tread (front) |  | Wide tread (option) | 1040 (41.0)                          |                                    |                                      |                                    |  |  |
| K               | Tread (rear)                                 |                     | 980 (38.5)                           |                                    |                                      |                                    |  |  |
| L               | . Wheelbase                                  |                     |                                      | 1575                               | (62.0)                               |                                    |  |  |
| Μ               | Rear overhang                                |                     | 485 (18.8)                           | 525 (20.3)                         | 335 (13.3)                           | 565 (22.1)                         |  |  |
| Ν               | Underclearance (at frame)                    |                     | 150 (5.9)                            |                                    |                                      |                                    |  |  |

Unit: mm (in.)

|            |                                     |              |                                      |                                       | . ,        |  |  |
|------------|-------------------------------------|--------------|--------------------------------------|---------------------------------------|------------|--|--|
| GC45K      | GC55K                               | GC55K<br>STR | GC60K                                | GC70K<br>STR                          |            |  |  |
|            | 2900 (114)                          | I            |                                      | 2350 (93)                             |            |  |  |
|            | 160 (6.3)                           |              |                                      | 165 (6.5)                             |            |  |  |
| 2          | 895 (35.2)<br>2.8 m (112 in.) mas   | st           |                                      |                                       |            |  |  |
| 2          | 895 (35.2)<br>4.0 m (157 in.) mas   | st           | 3                                    | 900 (35.4)<br>5.5 m (138 in.) mas     | st         |  |  |
|            |                                     | 1220         | 0 (48)                               |                                       |            |  |  |
| 5/10       | Simplex, Duplex<br>6/5 Triplex mast | mast         |                                      | 6/10 Simplex mast<br>6/5 Triplex mast | t          |  |  |
| 2730 (107) | 2910 (115)                          | 2640 (104)   | 2950                                 | (116)                                 | 2730 (107) |  |  |
|            | 1320 (52.0)                         |              |                                      | 1440 (56.5)                           |            |  |  |
|            | 1420 (56.0)                         |              |                                      |                                       |            |  |  |
|            | 2155 (85.0)                         |              | 2205 (87.0)                          |                                       |            |  |  |
|            | 2155 (85.0)                         |              | 2205 (87.0)                          |                                       |            |  |  |
|            | 4125 (162)                          |              | 3585 (141)                           |                                       |            |  |  |
| 2          | 4080 (160.6)<br>2.8 m (112 in.) mas | st           |                                      |                                       |            |  |  |
| 2          | 5560 (218.9)<br>4.0 m (157 in.) mas | st           | 4785 (188.3)<br>3.5 m (138 in.) mast |                                       |            |  |  |
|            | 1015 (40.0)                         |              | 1130 (44.5)                          |                                       |            |  |  |
|            | 1120 (44)                           |              |                                      |                                       |            |  |  |
|            | 965 (38.0)                          |              | 1160 (45.5)                          |                                       |            |  |  |
|            | 1780 (70.0)                         |              | 1830 (72.0)                          |                                       |            |  |  |
| 470 (18.1) | 650 (26.1)                          | 380 (15.1)   | 590                                  | (23.1)                                | 340 (13.1) |  |  |
|            | 150 (5.9)                           |              | 200 (7.9)                            |                                       |            |  |  |

# **Technical Data**

| Truck Models |                              |                 | GC35K                        | GC40K                       | GC40K<br>STR          | GC45K<br>SWB                            |   |                        |              |  |
|--------------|------------------------------|-----------------|------------------------------|-----------------------------|-----------------------|---|---|------------------------|--------------|--|
| ce           | Capacity/load center         |                 |                              | kg/mm<br>(lb/in.)           | 3500/500<br>(7000/24) | 3500/500 4000/500   (7000/24) (8000/24) |   | 4500/600<br>(10000/24) |              |  |
| nan          | Maxin                        | num lift        | height                       | Simplex                     | mm (in.)              |   | 3050 (120)                                |                        | 2900 (114)   |  |
| rfor         | Lift sp                      | eed (loa        | ded)                         |                             | mm/sec.               |   | 540 (105)                                 |                        | 390 (78.0)   |  |
| c pe         | Lowering speed (loaded)      |                 |                              | (fpm)                       |                       | 550 (108)                               |   | 440 (86.5)             |              |  |
| Worl         | Mast tilt (forward-backward) |                 |                              | degree                      |                       | 5/                                      | 10  |                        |              |  |
| F            | Free li                      | ft              |                              |                             | mm (in.)              |   | 150 (6.0)                                 |                        |              |  |
|              | Trough                       | Power           | shift                        | Loaded                      | 1.m/h                 |   | 19 (12.0)                                 |                        | 18.5 (11.5)  |  |
| nce          | speed                        | transm<br>model | ission<br>s                  | No load                     | (mph)                 |   | 19.5                                      | (12.5)                 |              |  |
| rma          | Minim                        | um turn         | ing rad                      | ius                         |                       | 2235 (88.0)                             | 2285 (90)                                 | 2090 (82.5)            | 2340 (92.0)  |  |
| g perfo      | Minim<br>interse             | um<br>cting isl | e Stai                       | ndard                       | mm (in.)              | 2245 (88.5)                             | 2295 (90.5)                               | 2100 (82.5)            | 2350 (92.5)  |  |
| eling        | Grade                        | ability a       | t 1 mph                      | Load                        | ed                    | 37                                      | 33  | 32                     | 27           |  |
| rave         | (1.6 kı                      | n/h)            | 1                            | No lo                       | oaded %               | 23.8                                    | 21.1                                      | 21.5                   | 17.7         |  |
| L            | Gradeability at stal         |                 | t stall                      | Load                        | ed                    | 42                                      | 37  | 36                     | 30           |  |
|              | No lo                        |                 |                              | baded                       | 23.8                  | 21.1                                    | 21.5                                      | 17.7                   |              |  |
|              | Overall length to fork face  |                 |                              | 2510 (98.5)                 | 2550 (100)            | 2360 (93)                               | 2620 (103)                                |                        |              |  |
|              | Overall Standard             |                 | rd                           |                             |                       | 1180 (46.5)                             |   |                        |              |  |
|              | width                        |                 | Wide tread (optional)        |                             |                       | 1270 (50.0)                             |   |                        |              |  |
|              |                              |                 |                              | To top of mast<br>(lowered) |                       | 2200 (86.5) 2350 (92.5)                 |   |                        |              |  |
|              | Overal height                | 11              | To top of mast<br>(extended) |                             |                       | 4250 (167.5) 4130 (162.5)               |   |                        |              |  |
| suo          |                              | r<br>o          |                              | To top of<br>overhead guard |                       | 2155 (85.0)                             |   |                        |              |  |
| ensi         | Wheel                        | base            |                              |                             |                       |   | 1575 (62.0)                               |                        |              |  |
| Dim          |                              |                 | Standa                       | urd                         |                       |   | 940 (                                     | 37.0)                  |              |  |
| Γ            | Tread                        | Front           | Wide to (option              | tread<br>nal)               |                       | 1040 (41.0)                             |   |                        |              |  |
|              |                              | Rear            |                              |                             | ]                     |   | 980 (                                     | 38.5)                  |              |  |
|              | Overh                        | ang             | Rear                         |                             |                       | 485 (18.8)                              | 485 (18.8) 525 (20.3) 335 (13.3) 565 (22. |                        | 565 (22.1)   |  |
|              | Under                        | clearanc        | e (at fra                    | ame)                        |                       |   | 150                                       | (5.9)                  |              |  |
|              | Tire si                      | Tire size       |                              | Single<br>wheels            | mm                    |   | 22×9×16                                   |                        |              |  |
|              |                              |                 | Rear                         |                             |                       |   | 18×7>                                     | (12.12                 |              |  |
| şht          | Single                       | wheels          | Servic<br>-no loa            | e weight<br>ad              |                       | 5200 (11500)                            | 5600 (12300)                              | 5700 (12700)           | 6500 (14300) |  |
| Wei          | (witho                       | ut load)        | Axle                         | Front                       | kg (lb)               | 2050 (4600)                             | 2025 (4400)                               | 2150 (4900)            | 1925 (4200)  |  |
| -            |                              |                 |                              | Rear                        |                       | 3150 (6900)                             | 3575 (7900)                               | 3550 (7800)            | 4575 (10100) |  |

| GC45K                                      | GC55K        | GC55K<br>STR | GC60K                       | GC60K GC70K                           |              |  |  |
|--|--------------|--------------|-----------------------------|---------------------------------------|--------------|--|--|
| 4500/600 5500/600<br>(10000/24) (12000/24) |              |              | 6000/600<br>(13500/24)      | 00/600 7000/600<br>500/24) (15500/24) |              |  |  |
|  | 2900 (114)   |              |                             | 2360 (93)                             |              |  |  |
|  | 390 (78.0)   |              |                             | 360 (71.0)                            |              |  |  |
|  | 440 (86.5)   |              |                             | 540 (106.0)                           |              |  |  |
|  | 5/10         |              |                             | 6/10                                  |              |  |  |
|  | 160 (6.5)    |              |                             | 165 (6.5)                             |              |  |  |
| 18.5 (11.5)                                | 18 (         | 11.5)        | 21 (13.0)                   | 20.5                                  | (12.5)       |  |  |
|  | 19.5 (12.5)  |              | 23 (                        | 14.5)                                 | 22.5 (14.0)  |  |  |
| 2440 (96.0)                                | 2550 (100)   | 2350 (92.5)  | 2570 (                      | (101.0)                               | 2400 (94.5)  |  |  |
| 2345 (92.5)                                | 2455 (96.5)  | 2255 (89)    | 2395                        | (94.5)                                | 2220 (87.5)  |  |  |
| 26   | 22.6         | 22.2         | 24.5                        | 21.7                                  | 21.4         |  |  |
| 23.8                                       | 20.2         | 20.9         | 22.2                        | 19.7                                  | 20.4         |  |  |
| 30   | 26           | 25           | 30 27                       |                                       | 26           |  |  |
| 23.8                                       | 20.2         | 20.9         | 22.2 19.7                   |                                       | 20.4         |  |  |
| 2730 (107)                                 | 2910 (115)   | 2460 (104)   | 2950                        | (116)                                 | 2700 (106)   |  |  |
|  | 1320 (52.0)  |              |                             | 1440 (56.5)                           |              |  |  |
|  | 1420 (56.0)  |              |                             |                                       |              |  |  |
|  | 2350 (92.5)  |              |                             | 2530 (99.5)                           |              |  |  |
|  | 4130 (162.5) |              |                             | 2370 (93.0)                           |              |  |  |
|  | 2155 (85.0)  |              |                             | 2205 (87.0)                           |              |  |  |
|  | 1780 (70.0)  |              | 1830 (72.0)                 |                                       |              |  |  |
|  | 1015 (40.0)  |              | 1135 (44.5)                 |                                       |              |  |  |
|  | 1115 (44.0)  |              |                             |                                       |              |  |  |
|  | 965 (38.0)   |              | 1160 (45.5)                 |                                       |              |  |  |
| 470 (18.1)                                 | 650 (26.1)   | 380 (15.1)   | 590 (                       | (23.1)                                | 340 (13.1)   |  |  |
|  | 150 (5.9)    |              |                             | 200 (7.9)                             |              |  |  |
| 22×12×16                                   |              |              | 28×12×12                    |                                       |              |  |  |
| 18×8×12.12                                 | 18×8>        | <12.12       |                             | 22×8×16                               |              |  |  |
| 6600 (14500)                               | 7200 (15800) | 7400 (16200) | 8800 (19300)                | 9500 (20900)                          | 9700 (21300) |  |  |
| 2625 (5700)                                | 2425 (5300)  | 2625 (5700)  | 3300 (7300)                 | 3300 (7200)                           | 3500 (7500)  |  |  |
| 3975 (8800)                                | 4775 (10500) | 4775 (10500) | 5500 (12000) 6200 (13700) 6 |                                       | 6200 (13800) |  |  |

| Truck Models    |                  |                               | GC35K                        | GC40K              | GC40K                  | GC45K   |  |  |
|-----------------|------------------|-------------------------------|------------------------------|--------------------|------------------------|---------|--|--|
| Item            | S                |                               | SIR SWB                      |                    |                        |         |  |  |
|                 | Engine model     |                               | GM4.3L                       |                    |                        |         |  |  |
|                 | Туре             |                               | Gasoline                     |                    |                        |         |  |  |
|                 | Cooling system   | 1                             | Water cooled                 |                    |                        |         |  |  |
|                 | No. of cylinder  | rs-arrangement                | 6-90°V                       |                    |                        |         |  |  |
|                 | No. of strokes   |                               |                              | 2                  | 4                      |         |  |  |
|                 | Type of combu    | stion chamber                 |                              | Semi-sj            | pherical               |         |  |  |
|                 | Valve arrangen   | nent                          |                              | Over               | head                   |         |  |  |
|                 | Type of cylinde  | er liners                     |                              | Inte               | gral                   |         |  |  |
|                 | Cylinder bore :  | × stroke, mm (in.)            |                              | 101.6×88.39        | (4.00×3.48)            |         |  |  |
|                 | Displacement,    | cc (cu in.)                   |                              | 4293               | (262)                  |         |  |  |
| gine            | Compression ra   | atio                          |                              | 9.2                | : 1                    |         |  |  |
| Eng             | Rated output, H  | PS/rpm                        |                              | 94/2               | 2450                   |         |  |  |
|                 | Rated torque, k  | kgf∙m/rpm                     |                              | 31.0/              | /1200                  |         |  |  |
|                 | Min. rpm         |                               | 750-800, <b>650-700</b>      |                    |                        |         |  |  |
|                 | Max. rpm         |                               | 2650-2700, <b>2600-2650</b>  |                    |                        |         |  |  |
|                 | Dimensions (L    | ×W×H), mm (in.)               | 710×620×740 (28.0×24.4×29.1) |                    |                        |         |  |  |
| Weight, kg (lb) |                  |                               | 260 (573)                    |                    |                        |         |  |  |
|                 | Installation pos | sition                        | Rear                         |                    |                        |         |  |  |
|                 | Ignition         |                               |                              | Sp                 | ark                    |         |  |  |
|                 | Firing order     |                               |                              | 1-6-5-             | -4-3-2                 |         |  |  |
|                 | Initial ignition | timing, BTDC deg              | 0° G                         | asoline, 8° L.P.   | G., ECU Contr          | olled   |  |  |
|                 | Fuel tank capa   | city, liter (U.S.gal)         | 66 (17.4)                    |                    |                        |         |  |  |
|                 | Ignition coil    | Туре                          |                              | Me                 | old                    |         |  |  |
| em              |                  | Туре                          |                              | Poin               | tless                  |         |  |  |
| n syste         | Distributor      | Type of spark advance control | Interna                      | al solid state cir | cuit, ECU Con          | trolled |  |  |
| itio            |                  | Model                         | AC #41-932, <b>R42LTS</b>    |                    |                        |         |  |  |
| Ign             | Spark plug       | Size, mm (in.)                | 14 (0.55)                    |                    |                        |         |  |  |
|                 |                  | Gap, mm (in.)                 |                              | 1.24 (0.0488       | 8), <b>.89 (.035</b> ) |         |  |  |
| я               | Carburetor       | Туре                          |                              | Single Bar         | rel, MPFI              |         |  |  |
| Fuel<br>/stei   | Governor         | Туре                          |                              | Elect              | ronic                  |         |  |  |
| S               | Fuel pump        | Туре                          |                              | Electron           | nagnetic               |         |  |  |
|                 | Air cleaner      | Type × Number                 | (                            | Cyclone with pa    | aper element ×         | 1       |  |  |
|                 |                  |                               |                              |                    |                        |         |  |  |

MPFI specs in **Bold**. If not indicated in bold, specs are for Carbureted and MPFI systems.

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