# Table of Contents

## I. Starting & Charging

<table>
<thead>
<tr>
<th>System Description</th>
<th>Page Section#</th>
<th># of Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Starting System</td>
<td>Section 1</td>
<td>(2)</td>
</tr>
<tr>
<td>2. Charging System</td>
<td>Section 2</td>
<td>(2)</td>
</tr>
</tbody>
</table>

## II. Lighting

<table>
<thead>
<tr>
<th>System Description</th>
<th>Page Section#</th>
<th># of Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Headlights (2 beam)</td>
<td>Section 3</td>
<td>(7)</td>
</tr>
<tr>
<td>2. Headlights (4 beam)</td>
<td>Section 4</td>
<td>(4)</td>
</tr>
<tr>
<td>3. Turnsignal / Hazard Lamps</td>
<td>Section 5</td>
<td>(7)</td>
</tr>
<tr>
<td>4. Stoplamps</td>
<td>Section 6</td>
<td>(4)</td>
</tr>
<tr>
<td>5. Interior Lights</td>
<td>Section 7</td>
<td>(3)</td>
</tr>
<tr>
<td>6. Interior Lights</td>
<td>Section 8</td>
<td>(3)</td>
</tr>
<tr>
<td>7. Auto Off Headlamps</td>
<td>Section 9</td>
<td>(4)</td>
</tr>
<tr>
<td>8. Daytime Running Lights (A)</td>
<td>Section 10</td>
<td>(4)</td>
</tr>
<tr>
<td>9. Daytime Running Lights (B)</td>
<td>Section 11</td>
<td>(4)</td>
</tr>
</tbody>
</table>

## III. Accessories

<table>
<thead>
<tr>
<th>System Description</th>
<th>Page Section#</th>
<th># of Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Horn</td>
<td>Section 12</td>
<td>(2)</td>
</tr>
<tr>
<td>2. Window Defogger</td>
<td>Section 13</td>
<td>(2)</td>
</tr>
<tr>
<td>3. Window Defogger w/timer</td>
<td>Section 14</td>
<td>(2)</td>
</tr>
<tr>
<td>4. Power Windows</td>
<td>Section 15</td>
<td>(8)</td>
</tr>
<tr>
<td>5. Mirrors</td>
<td>Section 16</td>
<td>(7)</td>
</tr>
<tr>
<td>6. Door Locks</td>
<td>Section 17</td>
<td>(5)</td>
</tr>
<tr>
<td>7. Clock / Cig Lighter</td>
<td>Section 18</td>
<td>(2)</td>
</tr>
<tr>
<td>8. Power Seats</td>
<td>Section 19</td>
<td>(2)</td>
</tr>
<tr>
<td>9. Front Wiper / Washer</td>
<td>Section 20</td>
<td>(8)</td>
</tr>
<tr>
<td>10. Rear Wiper / Washer</td>
<td>Section 21</td>
<td>(4)</td>
</tr>
<tr>
<td>11. Blower Motor</td>
<td>Section 22</td>
<td>(5)</td>
</tr>
<tr>
<td>12. Cooling Fan</td>
<td>Section 23</td>
<td>(7)</td>
</tr>
<tr>
<td>13. AC Control Part 1 (w/fans)</td>
<td>Section 24</td>
<td>(2)</td>
</tr>
<tr>
<td>14. AC Control Part 2 (w/blower)</td>
<td>Section 25</td>
<td>(2)</td>
</tr>
<tr>
<td>15. Shift Interlock</td>
<td>Section 26</td>
<td>(4)</td>
</tr>
<tr>
<td>16. Sun Roof</td>
<td>Section 27</td>
<td>(4)</td>
</tr>
<tr>
<td>17. Power Antenna</td>
<td>Section 28</td>
<td>(4)</td>
</tr>
</tbody>
</table>
TOYOTA HEADLAMPS - 2 BEAM

[Diagram of Toyota headlamp wiring system]

- Battery
- Fuses
- Headlight Relay
- Integration Relay
- Headlight Switch
- High Beam Indicator

Legend:
- OFF
- TAIL
- HEAD
- LOW
- HIGH
- FLASH
TOYOTA TURNSIGNAL / HAZARD LAMPS
TOYOTA REAR WINDOW DEFOGGER (Without Timer)
TOYOTA REAR WINDOW DEFOGGER with TIMER
TOYOTA FRONT WIPER / WASHER
### Diagram of TOYOTA FRONT WIPER / WASHER

**Wiper and Washer Switch (with Wiper Relay)**

<table>
<thead>
<tr>
<th>Wiper and Washer Switch</th>
<th>Wiper Relay</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td></td>
</tr>
<tr>
<td>INT</td>
<td></td>
</tr>
<tr>
<td>Low/High</td>
<td></td>
</tr>
<tr>
<td>Wiper</td>
<td></td>
</tr>
<tr>
<td>Washer</td>
<td></td>
</tr>
</tbody>
</table>

**Connections**

- Line 1: 20A Wiper
- Line 2: Front Washer Motor
- Line 3: Diode
- Line 4: Diode (for Front Wiper)
- Line 5: Diode (for Rear Wiper)
- Line 6: L-V
- Line 7: L-B
- Line 8: L-G
- Line 9: L-O
- Line 10: L-B
- Line 11: L-G
- Line 12: L-O

**Wiper Motor Connections**

- Line 12: 12 V
- Line 1: 12 V
- Line 2: 12 V
- Line 3: 12 V
- Line 4: 12 V
- Line 5: 12 V
- Line 6: 12 V
- Line 7: 12 V
- Line 8: 12 V
- Line 9: 12 V
- Line 10: 12 V

**Diagrams and Connections**

- Diagram of Wiper Motor
- Diagram of Diode Connections
- Diagram of Wiper and Washer Switch
TOYOTA FRONT WIPER / WASHER

DIAGRAM:

1. WIPER AND WASHER SW (W/ WIPER RELAY) (COMB, SW)
2. WIPER RELAY
3. DIODE (FOR FRONT WIPER)
4. WIPER MOTOR
5. FRONT WASHER MOTOR

WIRING:

- L-W (W/O REAR WIPER)
- L-V (W/O REAR WIPER)
- L-G
- 16 W-B
- 4 L-Y
- 7 L-B
- 13 L-G
- 18 L

CONNECTORS:

- 12
- 1
- 3
- 5
- 6
- 2
- 4
- 3

REFERENCES:

- 20A WIPER
TOYOTA COOLING FANS

FROM POWER SOURCE SYSTEM (SEE PAGE 64)

15A ECU-10

30A RDI FAN

30A CDS FAN

A/C CONDENSER FAN MOTOR

RADIATOR FAN RELAY

RADIATOR FAN RELAY NO. 2

RADIATOR FAN RELAY NO. 3

FROM A/C MAGNETIC CLUTCH RELAY

B1 RADIATOR FAN MOTOR

WATER TEMP. SW (FOR COOLING FAN)
TOYOTA COOLING FANS
TOYOTA COOLING FANS

FROM POWER SOURCE SYSTEM (SEE PAGE 64)

- 15A ECU-1B
- 30A RB1 FAN
- 30A CDS FAN

A/C CONDENSER FAN MOTOR

RADIATOR FAN RELAY

- 1
- 2
- 3
- 4
- 5

RADIATOR FAN RELAY NO. 2

- 1
- 2
- 3
- 4

WATER TEMP. SW (FOR COOLING FAN)

- 1
- 2

FROM A/C MAGNETIC CLUTCH RELAY

RADIATOR FAN RELAY NO. 3

- 1
- 2
- 3
- 4
- 5

E A

2

W-B
NOTE:

Switch #1, closed in PARK, open in all other gear selections.

Switch #2, open in PARK, closed in all other gear selections.
NOTE:

Switch #1, closed in PARK, open in all other gear selections.

Switch #2, open in PARK, closed in all other gear selections.
NOTE:

Switch #1, closed in PARK, open in all other gear selections.

Switch #2, open in PARK, closed in all other gear selections.
NOTE:

Switch #1, closed in PARK, open in all other gear selections.

Switch #2, open in PARK, closed in all other gear selections.
NOTE:
Switch #1, closed in PARK, open in all other gear selections.
Switch #2, open in PARK, closed in all other gear selections.
TOYOTA SUN ROOF

FROM POWER SOURCE SYSTEM (SEE PAGE 64)

10A GAUGE

30A POWER

20A DOME

DOOR LOCK CONTROL RELAY

W/LY

POWER MAIN RELAY

MOON ROOF CONTROL RELAY

BUZZER

MOON ROOF LIMIT SW

MOON ROOF MOTOR

MOON ROOF CONTROL SW
TOYOTA SUN ROOF

FROM POWER SOURCE SYSTEM (SEE PAGE 64)

10A GAUGE

30A POWER

20A DOME

DOOR LOCK CONTROL RELAY

MOON ROOF CONTROL RELAY

POWER MAIN RELAY

BUZZER

MOON ROOF LIMIT SW

MOON ROOF MOTOR

MOON ROOF CONTROL SW

110V (W/G)

110V (S/D/C/P)

W/B

B 5:1/D
B37:W/G
B21:C/P

B 4:1/D
B31:W/G
B21:C/P

B 5:1/D
B32:W/G
B21:C/P

B 5:1/D
B32:W/G
B21:C/P

B 5:1/D
B32:W/G
B21:C/P

B 5:1/D
B32:W/G
B21:C/P

B 5:1/D
B32:W/G
B21:C/P
TOYOTA SUN ROOF

FROM POWER SOURCE SYSTEM (SEE PAGE 64)

10A GAUGE

30A POWER

20A DOME

JUNCTION CONNECTOR

DOOR LOCK CONTROL RELAY

MOON ROOF CONTROL RELAY

POWER MAIN RELAY

BUZZER

MOON ROOF CONTROL
SWITCH

MOON ROOF LIMIT
SWITCH

MOON ROOF MOTOR

MOON ROOF
SWITCH

TIMERS

OTHER DEVICES

SIGNALS

INTERNAL CONNECTIONS

27