

HAYMAN REESE
PART No: 02737RW
LEXUS RX (02/2006-02/2009)

INSTALLATION INSTRUCTIONS

PLEASE ENSURE THAT INSTRUCTIONS UNDERSTOOD PRIOR TO FITMENT



Installation Time: Approx **60** Mins

Towbar Installation Instructions
LEXUS RX (02/2006-02/2009)

Towbar capacity

Part Number 02737RW

Max Towing Braked 1500kg
Max Static Ball Load 150kg

Hayman Reese (Cequent)
PO Box 4050, Dandenong South VIC 3164
Phone 1800 812 017 Email info@haymanreese.com.au

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Warning:

1. Do not, drill, cut, weld or otherwise modify the towbar.
2. If you are using electric welding on a motor vehicle, **always** check that the vehicle is not equipped with electronic engine or instrument management equipment. Failure to do so could **destroy** any onboard computers. If in doubt, check with the vehicle's manufacturer.

1. **General:** Ensure all hardware items have been included refer to assembly diagram.
2. It is recommended that the instructions are read through and completely understood before making any attempt to fit this product.
3. Be wary of any changes to vehicle designs or other accessories that may conflict with the installation of this product.
4. Before drilling ensure that the area is clear of fuel, electrical & other components.
5. All holes drilled into the body panels shall have all burrs & swarf removed then coated with a suitable rust preventative paint.
6. The high tensile fasteners supplied with this product were used to achieve the specified rating. If replacement is required ensure that fasteners of the same rating & quality are used. Contact an authorised **Hayman Reese** dealer if further information is required.
7. Ensure that all hardware is fastened to torque list below check fasteners on regular basis.
8. Towbar load rating sticker provided with this product shall be conspicuously located on inside rear end of the driver's door. **(See diagram below).**
9. Hayman Reese recommends that you check your tow ball to ensure that it complies with the Australian standards **AS 4177.2**.
10. **PLEASE NOTE:** It is advised to remove your lug or tbn when not actually towing so as to produce a clear view of the vehicles registration plate if obscured, and to also provide maximum available departure angle.

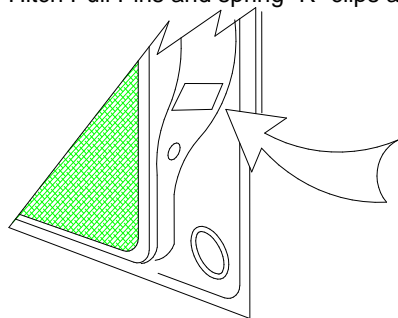
Tow bar Maintenance and Care.

Hayman Reese recommends that bolt torque's, as listed below, are routinely and regularly inspected and checked for correct tension. Replace any worn or defective parts.

We recommended to remove Tow Ball Mounts (TBM's, tongues or lugs) when not being used for any considerable length of time.

So as to avoid injury, when not towing it is suggested that the tongue, Pull Pin and R-clip are removed then stored in a safe, clean and dry place, away from excessive moisture.

Hitch Pull Pins and spring "R" clips are regularly checked for proper installation. Replace any worn or defective parts.



Place load rating sticker
inside driver's door here

**RECOMMENDED ASSEMBLY TORQUE
LISTING**

Diameter Grade 8.8 Bolt

M6	9.5 Nm
M8	21.7 Nm
M10	43.4 Nm
M12	77.3 Nm
M14	146 Nm
M16	189.8 Nm

FOR TOWING PURPOSES ONLY

For towing capacity details please refer to vehicle
owner's manual or to the manufacturer. Overloading can
void your warranties.

Issue Date 20/10/10





Page 2

Part No: 02737RW

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PART No: **02737RW**
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	<p>1. Remove 6 screws inside and under wheel arch on both sides.</p>
	<p>2. Lift tailgate and remove 2 screws inside cavity.</p>
	<p>3. Remove 2 skrivets under the bumper.</p>
	<p>4. Open boot compartment and remove plastic liner tray. Remove 4 screws from the rear panel attaching to bumper.</p> <p>5. Remove bumper bar and wiring.</p>




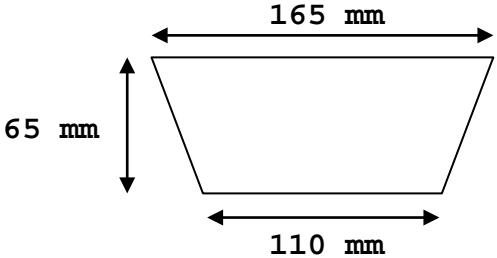
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	<p>6. Remove impact beam and fit towbar over existing mounting studs (may require swapping towing hooks from left to right).</p>
	<p>7. Fit towbar with supplied M8 nuts, flat washers and spring washers onto rear panel studs. Fit M10 bolts, flat washers and spring washers to the side of chassis rails.</p> <p>8. Torques all fasteners to specification on page 2.</p>
	<p>9. Cut bottom centre section of the foam support as shown on photo.</p>
 <p>165 mm</p> <p>65 mm</p> <p>110 mm</p>	<p>10. Cut trapezoid shape 165mm top, 110 bottom and 65mm high from bottom centre of the bumper bar.</p> <p>11. Refit bumper bar to vehicle.</p>

HAYMAN REESE
PART No: 100514-WL
LEXUS RX330, RX350 & RX400H
INSTALLATION INSTRUCTIONS

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Wiring Loom Installation Instructions

LEXUS RX330, RX350 & RX400H
Part No: 100514-WL

Tail Harness Length Required: 1200mm
RPA Override Switch Part No: 04848 (If fitted)

Wiring Loom Installation Time: Approx 90 Mins

Issue Date 25-01-12

Page 1

Part No: 100514-WL

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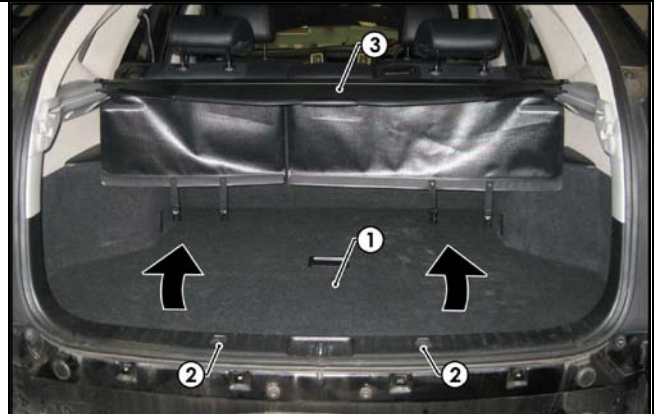
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1. From inside the luggage compartment, open the rear luggage door (1) by pushing the two buttons (2) located on the rear trim.
2. Remove the parcel shelf (3).
3. Remove the rear tool tray (not shown in photo).



4. Remove the rear trim (1) by first pushing the two buttons (2) and lifting upwards.



5. Remove the LHS storage compartment (1) by first removing any clips (2) or fasteners (3).



Issue Date 25-01-12

Page 2

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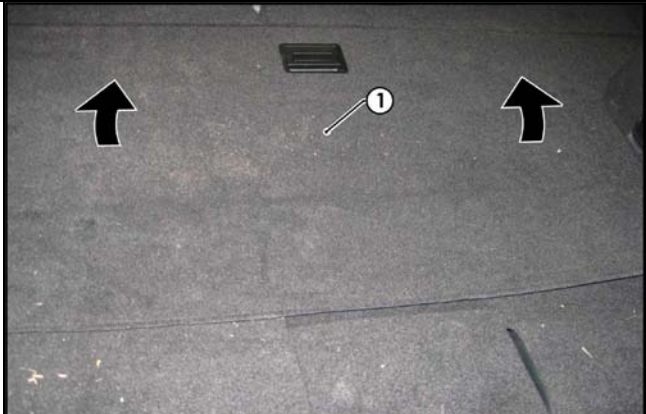
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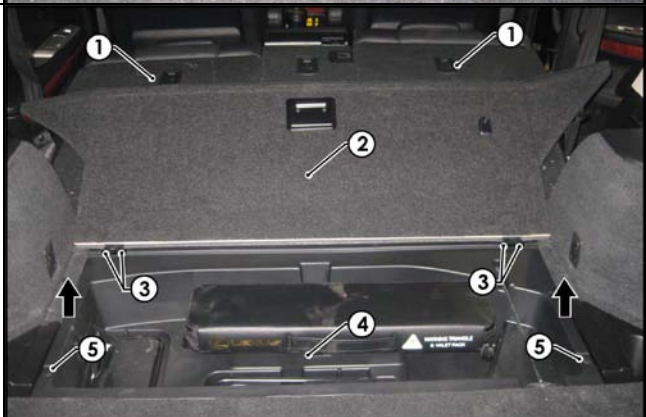
6. Open the centre tool tray cover (1).



7. Ensure the rear seats (1) are folded and moved as far forward as possible.

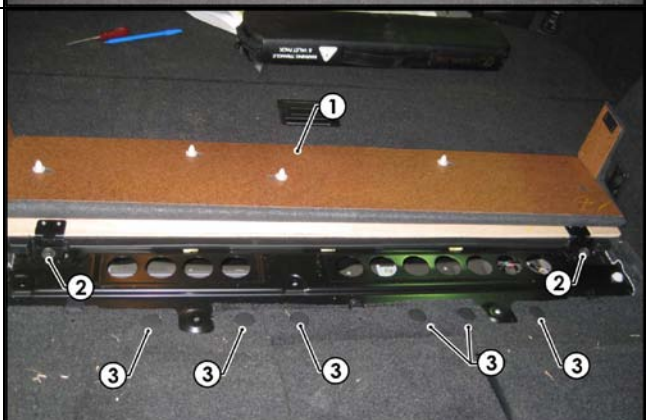
8. Remove the centre tool tray cover (2) by first removing the four M12 fasteners (3).

9. Remove the centre tool tray (4) by first removing the two clips (5).



10. Remove the carpet cover (1) located at the base of the rear seats by first removing the two M10 fasteners (2).

11. Unclip the eight clips (3) (only six shown in photo) holding the rear carpet in place.



Issue Date 25-01-12

Page 3

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12. Locate the 36-way JB connector (1) behind the rear LHS passenger seat.

13. Disconnect the 36-way JB connector (1) by first releasing the black lever lock.

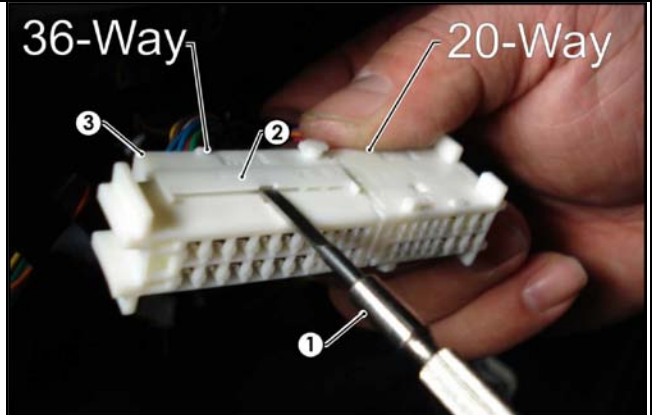


14. Remove the black lever lock (1) from the 36-way JB connector (2).



15. Using a small flat bladed screw driver (1), release the secondary lock (2) on the white connector (3).

Note: 20-Way connector can be found on the 36-Way JB connector as shown.



Issue Date 25-01-12

Page 4

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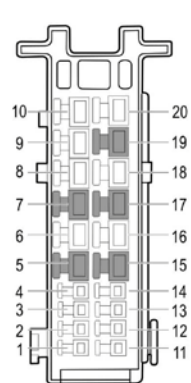
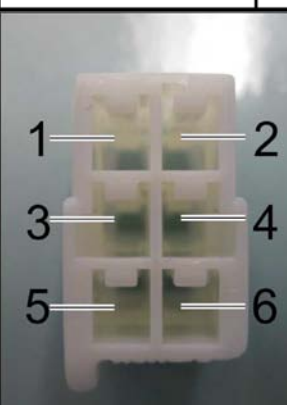
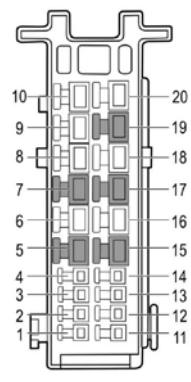
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LEXUS RX330, RX350 & RX400H

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<p>For RX330 Only:</p> <p>16. Locate the 20-way connector and unhouse the highlighted terminals.</p> <p>17. Locate the five loose trailer patch harness (P/No: 100514-WL) terminals.</p> <p>18. Following the table below, house the trailer patch harness terminals into the 20-way connector.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="text-align: center;">PIN</th> <th style="text-align: center;">FUNCTION</th> <th style="text-align: center;">TRAILER PATCH</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">5</td> <td style="text-align: center;">L.IND</td> <td style="text-align: center;">YELLOW</td> </tr> <tr> <td style="text-align: center;">7</td> <td style="text-align: center;">REVERSE</td> <td style="text-align: center;">BLACK</td> </tr> <tr> <td style="text-align: center;">15</td> <td style="text-align: center;">TAILS</td> <td style="text-align: center;">BROWN</td> </tr> <tr> <td style="text-align: center;">17</td> <td style="text-align: center;">R.IND</td> <td style="text-align: center;">GREEN</td> </tr> <tr> <td style="text-align: center;">19</td> <td style="text-align: center;">BRAKES</td> <td style="text-align: center;">RED</td> </tr> </tbody> </table>	PIN	FUNCTION	TRAILER PATCH	5	L.IND	YELLOW	7	REVERSE	BLACK	15	TAILS	BROWN	17	R.IND	GREEN	19	BRAKES	RED		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Terminal</th> <th style="text-align: center;">Colour</th> <th style="text-align: center;">Terminal</th> <th style="text-align: center;">Colour</th> </tr> </thead> <tbody> <tr><td style="text-align: center;">1</td><td style="text-align: center;">Red</td><td style="text-align: center;">11</td><td style="text-align: center;">Violet</td></tr> <tr><td style="text-align: center;">2</td><td style="text-align: center;">Red</td><td style="text-align: center;">12</td><td style="text-align: center;">Violet</td></tr> <tr><td style="text-align: center;">3</td><td style="text-align: center;">Red</td><td style="text-align: center;">13</td><td style="text-align: center;">White</td></tr> <tr><td style="text-align: center;">4</td><td style="text-align: center;">N/C</td><td style="text-align: center;">14</td><td style="text-align: center;">White</td></tr> <tr><td style="text-align: center;">5</td><td style="text-align: center;">Yellow</td><td style="text-align: center;">15</td><td style="text-align: center;">L.Green</td></tr> <tr><td style="text-align: center;">6</td><td style="text-align: center;">Yellow</td><td style="text-align: center;">16</td><td style="text-align: center;">L.Green</td></tr> <tr><td style="text-align: center;">7</td><td style="text-align: center;">Red</td><td style="text-align: center;">17</td><td style="text-align: center;">Green</td></tr> <tr><td style="text-align: center;">8</td><td style="text-align: center;">Red</td><td style="text-align: center;">18</td><td style="text-align: center;">Green</td></tr> <tr><td style="text-align: center;">9</td><td style="text-align: center;">Blue</td><td style="text-align: center;">19</td><td style="text-align: center;">Blue</td></tr> <tr><td style="text-align: center;">10</td><td style="text-align: center;">Blue</td><td style="text-align: center;">20</td><td style="text-align: center;">Blue</td></tr> </tbody> </table>	Terminal	Colour	Terminal	Colour	1	Red	11	Violet	2	Red	12	Violet	3	Red	13	White	4	N/C	14	White	5	Yellow	15	L.Green	6	Yellow	16	L.Green	7	Red	17	Green	8	Red	18	Green	9	Blue	19	Blue	10	Blue	20	Blue
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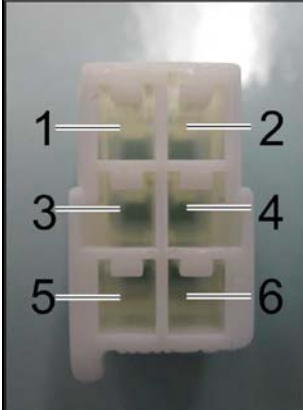
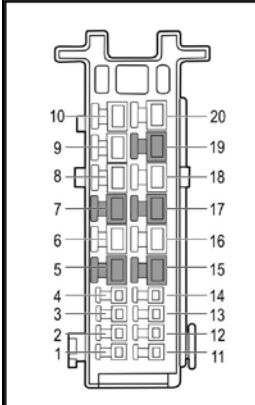
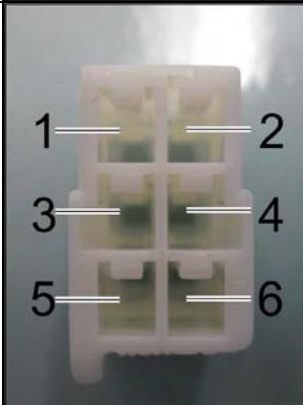
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LEXUS RX330, RX350 & RX400H

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<p>For RX400H Only:</p> <p>28. Locate the 20-way connector and unhouse the highlighted terminals.</p> <p>29. Locate the five loose trailer patch harness terminals.</p> <p>30. Following the table below house the trailer patch harness terminals into the 20-way connector.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th>PIN</th> <th>FUNCTION</th> <th>TRAILER PATCH</th> </tr> </thead> <tbody> <tr><td style="text-align: center;">5</td><td style="text-align: center;">L.IND</td><td style="text-align: center;">YELLOW</td></tr> <tr><td style="text-align: center;">7</td><td style="text-align: center;">REVERSE</td><td style="text-align: center;">BLACK</td></tr> <tr><td style="text-align: center;">15</td><td style="text-align: center;">TAILS</td><td style="text-align: center;">BROWN</td></tr> <tr><td style="text-align: center;">17</td><td style="text-align: center;">R.IND</td><td style="text-align: center;">GREEN</td></tr> <tr><td style="text-align: center;">19</td><td style="text-align: center;">BRAKES</td><td style="text-align: center;">RED</td></tr> </tbody> </table>	PIN	FUNCTION	TRAILER PATCH	5	L.IND	YELLOW	7	REVERSE	BLACK	15	TAILS	BROWN	17	R.IND	GREEN	19	BRAKES	RED		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #333; color: white;"> <th>Terminal</th> <th>Colour</th> <th>Terminal</th> <th>Colour</th> </tr> </thead> <tbody> <tr><td style="text-align: center;">1</td><td style="text-align: center;">Red</td><td style="text-align: center;">11</td><td style="text-align: center;">Pink</td></tr> <tr><td style="text-align: center;">2</td><td style="text-align: center;">Red</td><td style="text-align: center;">12</td><td style="text-align: center;">Pink</td></tr> <tr><td style="text-align: center;">3</td><td style="text-align: center;">Black</td><td style="text-align: center;">13</td><td style="text-align: center;">White</td></tr> <tr><td style="text-align: center;">4</td><td style="text-align: center;">N/C</td><td style="text-align: center;">14</td><td style="text-align: center;">Red</td></tr> <tr style="background-color: #ccc;"><td style="text-align: center;">5</td><td style="text-align: center;">White</td><td style="text-align: center;">15</td><td style="text-align: center;">L.Green</td></tr> <tr style="background-color: #ccc;"><td style="text-align: center;">6</td><td style="text-align: center;">Yellow</td><td style="text-align: center;">16</td><td style="text-align: center;">L.Green</td></tr> <tr style="background-color: #ccc;"><td style="text-align: center;">7</td><td style="text-align: center;">Pink</td><td style="text-align: center;">17</td><td style="text-align: center;">Brown</td></tr> <tr><td style="text-align: center;">8</td><td style="text-align: center;">Red</td><td style="text-align: center;">18</td><td style="text-align: center;">Green</td></tr> <tr style="background-color: #ccc;"><td style="text-align: center;">9</td><td style="text-align: center;">Blue</td><td style="text-align: center;">19</td><td style="text-align: center;">Blue</td></tr> <tr><td style="text-align: center;">10</td><td style="text-align: center;">Blue</td><td style="text-align: center;">20</td><td style="text-align: center;">Blue</td></tr> </tbody> </table>	Terminal	Colour	Terminal	Colour	1	Red	11	Pink	2	Red	12	Pink	3	Black	13	White	4	N/C	14	Red	5	White	15	L.Green	6	Yellow	16	L.Green	7	Pink	17	Brown	8	Red	18	Green	9	Blue	19	Blue	10	Blue	20	Blue
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HAYMAN REESE
PART No: 100514-WL
LEXUS RX330, RX350 & RX400H
INSTALLATION INSTRUCTIONS

PLEASE ENSURE THAT INSTRUCTIONS ARE UNDERSTOOD PRIOR TO FITMENT

34. Route the trailer patch harness towards the rear of the luggage compartment.
35. Connect the trailer patch harness ground ring terminal (1) to the vehicle grounding point (2).



36. From outside the vehicle, remove the LHS rear vehicle grommet (1).



37. Mount the trailer socket to the towbar mounting bracket using M4 fasteners (not supplied).
38. Route the tail harness (tail length 1200mm) across the towbar towards the LHS of the vehicle and up through the grommet hole.
39. Ensure the tail harness grommet is seated correctly and secure in place using a cable tie (not supplied).



Issue Date 25-01-12

Page 7

Part No: 100514-WL

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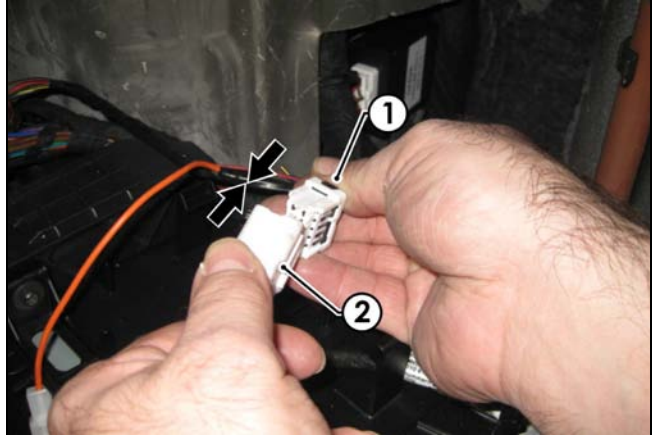
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40. Connect the tail harness 8-way connector (1) to the trailer patch harness mating 8-way connector (2).



41. Test the trailer harness function using a light board or multimeter.

42. Secure all harnesses using cable ties (not supplied).

43. Re-fit all removed parts and secure all fasteners, ensuring there are no squeaks or rattles.

44. Place instructions in glove box after fitment

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Page 8

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