

### JEEP CHEROKEE GRAND WJ

### PRODUCT NUMBER 3450100

# WARNING

### FOR VEHICLES EQUIPPED WITH SRS AIRBAG WHEN INSTALLED IN ACCORDANCE WITH THESE INSTRUCTIONS, THE FRONT PROTECTION BAR DOES NOT AFFECT OPERATION OF THE SRS AIRBAG.

### TAKE NOTE OF THE FOLLOWING:

- THIS PRODUCT MUST BE INSTALLED EXACTLY AS PER THESE INSTRUCTIONS USING ONLY THE HARDWARE SUPPLIED.
- IN THE EVENT OF DAMAGE TO ANY BULL BAR COMPONENT, CONTACT YOUR NEAREST AUTHORISED ARB STOCKIST. REPAIRS OR MODIFICATIONS TO THE IMPACT ABSORPTION SYSTEM MUST NOT BE ATTEMPED.
- DO NOT USE THIS PRODUCT FOR ANY VEHICLE MAKE OR MODEL, OTHER THAN THOSE SPECIFIED BY ARB.
- DO NOT REMOVE LABELS FROM THIS BULL BAR.
- THIS PRODUCT OR ITS FIXING MUST NOT BE MODIFIED IN ANY WAY.

## **IMPORTANT**

1 This winch bumper is suitable for Warn 8,000lb, 9,000lb & 9,500 low-mount winches only.

WHEN FITTING THIS BULL BAR TO 1998 TO 2000 MODELS ONLY. IT IS RECOMMENDED THAT THE VEHICLES HYDRAULIC COOLING SYSTEM BE UPGRADED TO 2001 TO 2003 SPECIFICATION. INSTALLATION OF THIS BULL BAR TO THE EARLIER MODELS WITHOUT THE COOLING SYSTEM UPGRADE MAY RESULT IN THE VEHICLE RUNNING HOTTER THAN NORMAL.

CONSULT YOUR NEAREST JEEP DEALER FOR PARTS REQUIRED.

### FITTING KIT NUMBER 6171463

6151232         6         BOLT M10 x 30mm           IMPACT ABSORBERS         4581040         6         WASHER FLAT M10           1MPACT ABSORBERS         4581044         6         WASHER SPRING M10           6151022         4         BOLT M8 x 25MM           4581044         4         WASHER SPRING M8           70 CHASSIS RAILS         4581046         4         WASHER SPRING M8           3756207         2         BRACKET CAPTIVE NUT           6151302         4         M10 CAGED NUT           3193666         2         PLATE CAPTIVE NUT           3756213L         1         IMPACT ABSORBERS           BULL BAR TO         6151045         6         BOLT M10 x 25mm           IMPACT ABSORBERS         4581048         6         WASHER SPRING M10           4581040         6         WASHER SPRING M10           6151026         2         NUT M10         6           10 BULL BAR         6         WASHER SPRING M6         10           10 BULL BAR         6         WASHER SPRING M6         10           10 BULL BAR         6         WASHER FLAT M10         6           10 BULL BAR         6         1017         4         BOLT M6 x 10mm	USE	PART No	QTY	DESCRIPTION
IMPACT ABSORBERS45810486WASHER SPRING M1061510224BOLT M8 x 25MM45810444WASHER FLAT M8TO CHASSIS RAILS45810464WASHER SPRING M837562072BRACKET CAPTIVE NUT61513024M10 CAGED NUT31936662PLATE CAPTIVE NUT3756213L1IMPACT ABSORBERSBULL BAR TO61510326BOLT M10 x 25mmIMPACT ABSORBERS45810486WASHER FLAT M10MPACT ABSORBERS61510262NUT M10TO BOLT BUFFERS61511288NUT FLANGE M6TO BULL BAR6WASHER FLAT M8CONTROL BOX BRACKET61510262NUT MI0CONTROL BOX BRACKET61510212BOLT M8 x 20mmCONTROL BOX BRACKET6151022NUT FLANGE M661511322NUT FLANGE M6MUMBER PLATE BRACKET6151074BOLT M6 x 16mm61510464WASHER FLAT M661511284NUT FLANGE M67560901BUFFERS KIT35000801ARB INDICATORS8-90001b WINCH TO PAN4581040445810404WASHER FLAT M661910011EXTRUSION RUBBER8-90001b WINCH TO PAN4581040445810404WASHER FLAT M661511282NUT FLANGE M67521511NUMBER PLATE BRACKET8-90001b WINCH TO PAN458104044581044 <td></td> <td>6151232</td> <td>6</td> <td>BOLT M10 x 30mm</td>		6151232	6	BOLT M10 x 30mm
61510224BOLT M8 x 25MMTO CHASSIS RAILS45810444WASHER FLAT M8TO CHASSIS RAILS45810464WASHER SPRING M837562072BRACKET CAPTIVE NUT31936662PLATE CAPTIVE NUT3756213R1IMPACT ABSORBER3756213R1IMPACT ABSORBERSBULL BAR TO61510456BOLT M10 x 25mmIMPACT ABSORBERS45810486WASHER SPRING M1045810406WASHER FLAT M1061510262NUT M10TO BOLT BUFFERS61510212BOLL BAR6SOLT M8 x 20mmCONTROL BOX BRACKET6151021261511322NUT FLANGE M6CONTROL BOX BRACKET6151017461511284NUT FLANGE M8NUMBER PLATE BRACKET6151017461511284NUT FLANGE M6S000801ARB INDICATORS8-9000lb WINCH TO PAN458104044581040445810404458104044581040445810404458104048-9000lb WINCH TO PAN4581040458104044581040445810404458104044581040445810404458104044581040445810404458104044581040445810404 <t< td=""><td></td><td>4581040</td><td>6</td><td>WASHER FLAT M10</td></t<>		4581040	6	WASHER FLAT M10
45810444WASHER FLAT M8TO CHASSIS RAILS45810464WASHER SPRING M837562072BRACKET CAPTIVE NUT6151024MI0 CAGED NUT31936662PLATE CAPTIVE NUT3756213R1IMPACT ABSORBER3756213R1IMPACT ABSORBERSBULL BAR TO61510456BOLT ABSORBERS4581048645810486WASHER SPRING M1061510262NUT M10TO BOLT BUFFERS61510262RONTROL BOX BRACKET4581044245810442BOLT MS x 20mmCONTROL BOX BRACKET61510212ADMINER PLATE BRACKET615102126151022NUT FLANGE M8NUMBER PLATE BRACKET6151046461510464WASHER FLAT M837541511NUMBER PLATE BRACKET61510282NUT FLANGE M661511284NUT FLANGE M68-90001b WINCH TO PAN458104044581040445810404458104128-90001b WINCH TO PAN458104044581044445810454459104445910444591044459104445910444591044459104445910444591044459104445910444591044 </td <td>PACT ABSORBERS</td> <td>4581048</td> <td>6</td> <td>WASHER SPRING M10</td>	PACT ABSORBERS	4581048	6	WASHER SPRING M10
TO CHASSIS RAILS45810464WASHER SPRING M837562072BRACKET CAPTIVE NUT31936662PLATE CAPTIVE NUT3756213L1IMPACT ABSORBER3756213R1IMPACT ABSORBERSBULL BAR TO61510456IMPACT ABSORBERS4581040645810406WASHER SPRING M1061510262NUT FLANGE M6TO BOLT BUFFERS61510262TO BOLT BUFFERS61510272OT BULL BAR6NUT FLANGE M6CONTROL BOX BRACKET6151021261511222NUT FLANGE M6OUT BULE BAR6CONTROL BOX BRACKET61510212NUT FLANGE M6OONTROL BOX BRACKET6151017461511222NUT FLANGE M8NUMBER PLATE BRACKET6151017461510464WASHER FLAT M661511284NUT FLANGE M6NUMBER PLATE BRACKET35001701BUFFERS AND INDICATORS350017018-9000Ib WINCH TO PAN4581040445810404WASHER FLAT 36"x 1"1803026CABLE TIESWINCH PAN COVER6151017461510252SCREW BUTTON HEAD M6 x 16mm61511282NUT FLANGE M661511284NUT FLANGE M661511284WASHER FLAT 36"x 1"PLASTIC INNER GUARDS6151017461510174BOLT M6 x 16mm6151		6151022	4	BOLT M8 x 25MM
37562072BRACKET CAPTIVE NUT61513024M10 CAGED NUT31936662PLATE CAPTIVE NUT3756213L1IMPACT ABSORBER3756213R1IMPACT ABSORBERSBULL BAR TO61510456BOLT M10 x 25mmIMPACT ABSORBERS45810486WASHER SPRING M1045810486WASHER SPRING M1061510262NUT M10TO BOLT BUFFERS61511288NUT BUAR61510262CONTROL BOX BRACKET45810442837562091CONTROL BOX BRACKET6151022BOLT M8 x 20mmCONTROL BOX BRACKET6151021280ULB BAR61510212CONTROL BOX BRACKET61510212811322NUT FLANGE M6751431NUMBER PLATE BRACKET6151044WASHER FLAT M861510464WASHER FLAT M661511284NUT FLANGE M673714511NUMBER PLATE BRACKETBUFFERS AND INDICATORS350017018-9000lb WINCH TO PAN45810404WASHER FLAT 3/8"x 1"1803026CABLE TIESWINCH PAN COVER6191001161511282QUARDS61510174BUFFER GUARDS615101761510182RUT FLANGE M661511282RUT PLANGE M661511284RUT PLANGE M66151		4581044	4	WASHER FLAT M8
61513024M10 CAGED NUT31936662PLATE CAPTIVE NUT3756213L1IMPACT ABSORBER3756213R1IMPACT ABSORBERSBULL BAR TO61510456BOLT M10 x 25mmIMPACT ABSORBERS45810486WASHER SPRING M1045810406WASHER SPRING M1061510262NUT M10TO BOLT BUFFERS61511288NUT FLANGE M6TO BOLT BUFFERS61510212BOLT M8 x 20mmCONTROL BOX BRACKET61510212BOLT M8 x 20mmCONTROL BOX BRACKET61510212NUT FLANGE M8NUMBER PLATE BRACKET61510174BOLT M6 x 16mm61511284NUT FLANGE M8NUMBER PLATE BRACKET61510174BOLT M6 x 16mm61510284NUT FLANGE M8NUMBER PLATE BRACKET61510464WASHER FLAT M661511284NUT FLANGE M637514511NUMBER PLATE BRACKETBUFFERS AND INDICATORS35000801ARB INDICATORS8-9000lb WINCH TO PAN45810404WASHER FLAT 3/8"x 1"1803026CABLE TIESWINCH PAN COVER61910011EXTRUSION RUBBER61910011EXTRUSION RUBBERPLASTIC INNER GUARDS61510174BOLT M6 x 16mm61511282NUT FLANGE M661511284NUT FLANGE M661511284NUT FLANGE M661511284NUT FLANGE M6 </td <td>CHASSIS RAILS</td> <td>4581046</td> <td>4</td> <td>WASHER SPRING M8</td>	CHASSIS RAILS	4581046	4	WASHER SPRING M8
3193666 3756213L2PLATE CAPTIVE NUT IMPACT ABSORBERBULL BAR TO61510456BOLT MI0 x 25mmIMPACT ABSORBERS45810486WASHER SPINIG M10 4581040A5810406WASHER SPINIG M10 45810406TO BOLT BUFFERS61510262NUT M10TO BOLT BUFFERS61510262NUT FLANGE M6CONTROL BOX BRACKET61510212BOLT M8 x 20mm CONTROL BOX BRACKET6151021CONTROL BOX BRACKET61510212BOLT M8 x 20mm CONTROL BOX BRACKET6151021CONTROL BOX BRACKET61510174BOLT M6 x 16mm 6151017MUMBER PLATE BRACKET61510174BOLT M6 x 16mm MISHER STATESUFFERS AND INDICATORS35001701BUFFERS KIT 3500080BUFFERS AND INDICATORS35001701BUFFERS KIT 81000Se9000lb WINCH TO PAN45810404WASHER FLAT 3/8"x 1" 180302MINCH PAN COVER61510174BOLT M6 x 16mm 6151128MINCH PAN COVER61510174BOLT M6 x 16mm 40151128PLASTIC INNER GUARDS61510174BOLT M6 x 16mm 4051128PLASTIC INNER GUARDS61510174BOLT M6 x 16mm 4051128PLASTIC INNER GUARDS61510174BOLT M6 x 16mm 4051128FLASTIC INNER GUARDS61510174BOLT M6 x 16mm 4051128GIS11436SCREWS SELF DRILL			2	BRACKET CAPTIVE NUT
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3756213R1IMPACT ABSORBERSBULL BAR TO61510456BOLT M10 x 25mmIMPACT ABSORBERS45810486WASHER SPRING M1045810406WASHER SPRING M1066WASHER FLAT M10TO BOLT BUFFERS61510262NUT M10TO BOLT BUFFERS61510212BOLT M8 x 20mmCONTROL BOX BRACKET61510212BOLT M8 x 20mmCONTROL BOX BRACKET61510122NUT FLANGE M661511222NUT FLANGE M8NUMBER PLATE BRACKET61510174BOLT M6 x 16mm61510464WASHER FLAT M661511284NUT FLANGE M8NUMBER PLATE BRACKET61510174BUFFERS KIT61511284NUT FLANGE M67514511NUMBER PLATE BRACKETBUFFERS AND INDICATORS35001701BUFFERS KIT35000801ARB INDICATORS8-9000lb WINCH TO PAN45810404WASHER FLAT 3/8"x 1"1803026CABLE TIESWINCH PAN COVER65210361PANEL WINCH COVER61511282NUT FLANGE M661511282NUT FLANGE M6PLASTIC INNER GUARDS61510174BOLT M6 x 16mm61511234NUT FLANGE M661511244WASHER FLAT M661511234WUT FLANGE M661511244WASHER FLAT M661511236SCREWS SELF DRILL		3193666	2	PLATE CAPTIVE NUT
BULL BAR TO IMPACT ABSORBERS         6151045 4581048 4581040 6151026         6 4581040 6 WASHER SPRING M10 WASHER FLAT M10 6151026           TO BOLT BUFFERS TO BULL BAR         6151128         8 NUT FLANGE M6           CONTROL BOX BRACKET         6151021 4581044         2 WASHER FLAT M8 NUT FLANGE M6           CONTROL BOX BRACKET         6151021 4581044         2 WASHER FLAT M8 NUT FLANGE M8           NUMBER PLATE BRACKET         6151017 6151132         4 WASHER FLAT M6 6151128           NUMBER PLATE BRACKET         6151017 6151046         4 WASHER FLAT M6 6151128           BUFFERS AND INDICATORS         3500170         1 BUFFERS KIT           3500080         1 ARB INDICATORS         3500170 180302         1 BUFFERS KIT           WINCH PAN COVER         6151128         4 G151128         WASHER FLAT 3/8"x 1" CABLE TIES           WINCH PAN COVER         6151126         2 SCREW BUTTON HEAD M6 x 16mm           G151128         2 NUT FLANGE M6         1 PANEL WINCH COVER           G151017         4 BOLT M6 x 16mm         4 WINCH PAN COVER         6151128           G151017         4 BOLT M6 x 16mm         6151128         1 PANEL WINCH COVER           G151017         4 BOLT M6 x 16mm         6151128         1 PANEL WINCH COVER           G151017         4 BOLT M6 x 16mm         6151128         1 PANEL WINCH COVER		3756213L	1	1MPACT ABSORBER
IMPACT ABSORBERS         4581048 4581040 6151026         6 2         WASHER SPRING M10 WASHER FLAT M10 NUT M10           TO BULT BUFFERS TO BULL BAR         6151128         8 8         NUT FLANGE M6           CONTROL BOX BRACKET         6151021         2 4581044         BOLT M8 x 20mm           CONTROL BOX BRACKET         4581044         2 4581044         WASHER FLAT M8 3756209         CONTROL BOX BRACKET           MUMBER PLATE BRACKET         6151017         4 5151032         BOLT M6 x 16mm           NUMBER PLATE BRACKET         6151017         4 4         BOLT M6 x 16mm           6151128         4 0151128         NUT FLANGE M6 3751451         NUT FLANGE M6 3751451           BUFFERS AND INDICATORS         3500170         1 1         BUFFERS KIT 3500080         ARB INDICATORS           8-9000lb WINCH TO PAN         4581040         4 4         WASHER FLAT 3/8"x 1"           180302         6         CABLE TIES           WINCH PAN COVER         6191001         1 EXTRUSION RUBBER           6191001         1 EXTRUSION RUBBER           PLASTIC INNER GUARDS         6151046         4 WASHER FLAT M6 6151047           6151046         4 WASHER FLAT M6           6151128         2 NUT FLANGE M6           6151128         4 NUT FLANGE M6                 6		3756213R	1	
4581040         6         WASHER FLAT M10           TO BOLT BUFFERS         6151026         2         NUT M10           TO BULL BAR         6151128         8         NUT FLANGE M6           CONTROL BOX BRACKET         6151021         2         BOLT M8 x 20mm           CONTROL BOX BRACKET         6151021         2         BOLT M8 x 20mm           CONTROL BOX BRACKET         6151021         2         WASHER FLAT M8           3756209         1         CONTROL BOX BRACKET         6151017           6151132         2         NUT FLANGE M8           NUMBER PLATE BRACKET         6151017         4         BOLT M6 x 16mm           6151028         4         NUT FLANGE M6         6151128           BUFFERS AND INDICATORS         3500170         1         BUFFERS KIT           3500080         1         ARB INDICATORS         8           8-90001b WINCH TO PAN         4581040         4         WASHER FLAT 3/8"x 1"           180302         6         CABLE TIES         6191001           WINCH PAN COVER         6191001         1         EXTRUSION RUBBER           6151128         2         NUT FLANGE M6         151128           PLASTIC INNER GUARDS         6151017         4 <td>LL BAR TO</td> <td>6151045</td> <td>6</td> <td>BOLT M10 x 25mm</td>	LL BAR TO	6151045	6	BOLT M10 x 25mm
61510262NUT M10TO BOLT BUFFERS TO BULL BAR61511288NUT FLANGE M6CONTROL BOX BRACKET61510212BOLT M8 x 20mmCONTROL BOX BRACKET45810442WASHER FLAT M837562091CONTROL BOX BRACKET61511322NUT FLANGE M8NUMBER PLATE BRACKET61510174BOLT M6 x 16mm61510464WASHER FLAT M661511284NUT FLANGE M635001701BUFFERS KITBUFFERS AND INDICATORS35001701BUFERS KIT8-9000Ib WINCH TO PAN45810404WASHER FLAT 3/8"x 1"61910011EXTRUSION RUBBERWINCH PAN COVER61511282SCREW BUTTON HEAD M6 x 16mm61510174BOLT M6 x 16mmPLASTIC INNER GUARDS61510174BOLT M6 x 16mm61511282NUT FLANGE M661511284NUT FLANGE M661511436SCREWS SELF DRILL	PACT ABSORBERS	4581048	6	WASHER SPRING M10
61510262NUT M10TO BOLT BUFFERS TO BULL BAR61511288NUT FLANGE M6CONTROL BOX BRACKET61510212BOLT M8 x 20mmCONTROL BOX BRACKET45810442WASHER FLAT M837562091CONTROL BOX BRACKET61511322NUT FLANGE M8NUMBER PLATE BRACKET61510174BOLT M6 x 16mm61510464WASHER FLAT M661511284NUT FLANGE M635001701BUFFERS KITBUFFERS AND INDICATORS35001701BUFERS KIT8-9000lb WINCH TO PAN45810404WASHER FLAT 3/8"x 1"1803026CABLE TIESWINCH PAN COVER61910011EXTRUSION RUBBER61910011EXTRUSION RUBBERMINCH PAN COVER6151128261510174BOLT M6 x 16mmPLASTIC INNER GUARDS61510464WINCH FANGE GUARDS61510474BUFT INNER GUARDS615114366151128261511284615112846151128461511284615112846151128461511284615112846151128461511284615112846151143661511436615114366151143661511436		4581040	6	WASHER FLAT M10
TO BOLT BUFFERS TO BULL BAR61511288NUT FLANGE M6CONTROL BOX BRACKET61510212BOLT M8 x 20mmCONTROL BOX BRACKET45810442WASHER FLAT M837562091CONTROL BOX BRACKET61511322NUT FLANGE M8NUMBER PLATE BRACKET6151017461510464WASHER FLAT M661511284NUT FLANGE M637514511NUMBER PLATE BRACKETBUFFERS AND INDICATORS350017018-9000lb WINCH TO PAN45810404WINCH PAN COVER61910011EVENCE61512562SCREW BUTTON HEAD M6 x 16mmPLASTIC INNER GUARDS61510464WASHER FLAT M661511284ALSTIC INNER GUARDS61510464WASHER FLAT M661511284MUT FLANGE M661511284ALSTIC INNER GUARDS615104661511284615112846151128461511284615112846151128461511284615112846151143661511436615114366151143661511436		6151026	2	NUT M10
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6151021         2         BOLT M8 x 20mm           CONTROL BOX BRACKET         4581044         2         WASHER FLAT M8           3756209         1         CONTROL BOX BRACKET         6151132         2           NUMBER PLATE BRACKET         6151017         4         BOLT M6 x 16mm           6151046         4         WASHER FLAT M6           6151128         4         NUT FLANGE M6           800010         1         BUFFERS KIT           BUFFERS AND INDICATORS         3500170         1         BUFFERS KIT           3500080         1         ARB INDICATORS         8           8-90001b WINCH TO PAN         4581040         4         WASHER FLAT 3/8"x 1"           180302         6         CABLE TIES           WINCH PAN COVER         6191001         1         EXTRUSION RUBBER           6151128         2         NUT FLANGE M6         16151128           PLASTIC INNER GUARDS         6151017         4         BOLT M6 x 16mm           6151128         4         NUT FLANGE M6         6151128	BULL BAR			
CONTROL BOX BRACKET45810442WASHER FLAT M837562091CONTROL BOX BRACKET61511322NUT FLANGE M8NUMBER PLATE BRACKET61510174BOLT M6 x 16mm61510464WASHER FLAT M661511284NUT FLANGE M637514511NUMBER PLATE BRACKETBUFFERS AND INDICATORS35001701BUFFERS KIT35000801ARB INDICATORS8-9000lb WINCH TO PAN45810404WASHER FLAT 3/8"x 1"61910011EXTRUSION RUBBER61910011EXTRUSION RUBBER61511282NUT FLANGE M661511282NUT FLANGE M661511284NUT FLANGE M661511436SCREWS SELF DRILL		6151021	2	BOLT M8 x 20mm
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6151132         2         NUT FLANGE M8           NUMBER PLATE BRACKET         6151017         4         BOLT M6 x 16mm           6151046         4         WASHER FLAT M6           6151128         4         NUT FLANGE M6           3751451         1         NUMBER PLATE BRACKET           BUFFERS AND INDICATORS         3500170         1         BUFFERS KIT           3500080         1         ARB INDICATORS         3500080           8-9000lb WINCH TO PAN         4581040         4         WASHER FLAT 3/8"x 1"           180302         6         CABLE TIES           WINCH PAN COVER         6191001         1         EXTRUSION RUBBER           6191001         1         EXTRUSION RUBBER         6151128           PLASTIC INNER GUARDS         6151017         4         BOLT M6 x 16mm           6151128         2         NUT FLANGE M6         6151128           6151017         4         BOLT M6 x 16mm         6151017           PLASTIC INNER GUARDS         6151046         4         WASHER FLAT M6           6151128         4         NUT FLANGE M6         6151143           6         SCREWS SELF DRILL         6151143         6				
NUMBER PLATE BRACKET         6151017         4         BOLT M6 x 16mm           6151046         4         WASHER FLAT M6           6151128         4         NUT FLANGE M6           3751451         1         NUMBER PLATE BRACKET           BUFFERS AND INDICATORS         3500170         1         BUFFERS KIT           3500080         1         ARB INDICATORS         3500080         1           8-9000lb WINCH TO PAN         4581040         4         WASHER FLAT 3/8"x 1"           180302         6         CABLE TIES           WINCH PAN COVER         6191001         1         EXTRUSION RUBBER           6191001         1         EXTRUSION RUBBER         6151128           WINCH PAN COVER         6521036         1         PANEL WINCH COVER           6151128         2         NUT FLANGE M6         16151128           PLASTIC INNER GUARDS         6151046         4         WASHER FLAT M6           6151128         4         NUT FLANGE M6         6151128           6151143         6         SCREWS SELF DRILL				
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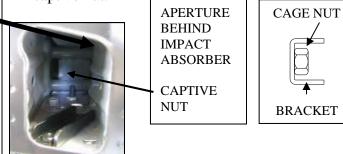
### **TOOLS REQUIRED**

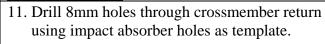
1 BASIC TOOL KIT, DRILL , <sup>1</sup>/<sub>2</sub>" DRILL BIT. <sup>3</sup>/<sub>4</sub>" LONG REACH SOCKET (IF DRIVING LIGHTS ARE TO BE FITTED).

## ASSEMBLY SEQUENCE FOR BULL BAR INSTALLATION.



- 9. Preassemble captive nut bracket and caged nuts (see diagram), then insert captive assembly through front of impact absorber into vehicle crossmember aperture and align with holes in bottom of chassis.
- 10. From underneath vehicle, fasten to chassis using 2 x M10 x 30mm bolts with flat and spring washers and using existing bash plate bolt and captive nut.





# (WARNING: BEWARE OF AIRCONDITIONING LINES AND WIRING LOOMS WHEN DRILLING.)



Fit 8mm captive nut plate behind crossmember return and align with 8mm drilled holes.



Using M8 x 25mm bolts, flat and spring washers, fasten through impact absorber to 8mm captive nut plate. When all bolts are fitted, tighten firmly.

<ul><li>12. If fitting the XP 9.5 winch, remove the cover from the control box.</li><li>For any other winch, go to step 19.</li></ul>
13. Remove the two cap screws, nuts and spacer washers that hold the four solenoids in place.
14. Remove the four solenoids from the base of the control box using the copper bus bar as an aid and hold to one side.

<image/> <image/>	15. Remove the two bolts in the base of the control box and reposition them into the more centralised holes
	After 16. Place the 4 solenoids over the 2 metal stands that are facing upwards. Make sure they line up with the holes in the base.
	<ul> <li>17. Replace the 2 cap screws, washers and nuts removed in step 13 above into original holes.</li> <li>18. Replace the black cover and refit the three cover screws (DO NOT OVER TIGHTEN)</li> </ul>

	<ul> <li>(If using bar as a winch bar, follow as per instructions below.)</li> <li>19. Fit control box bracket to bar using 8mm hardware.</li> <li>20. Fit indicators into bar.</li> <li>21. Fit number plate bracket to bar upward, or downward for non winch bar, using 6mm hardware.</li> <li>22. Photo on left is number plate bracket in upward position.</li> </ul>
MOLINTING FACE	<ul> <li>23. To place the clutch handle in the correct position, the winch gearbox must be rotated 72 degrees (2 hole spacings) in an anti-clockwise direction when viewed from gearbox end. Place the winch on its end and remove all gearbox bolts. Gently raise the gearbox just enough to rotate it. When the correct position is located, refit all bolts and tighten.</li> <li>NOTE: Take care not to lift the assembly more than a couple of millimeters while rotating to correct position to avoid unmeshing the gears.</li> </ul>
HILE HILE NEW HOLE	24. To fit roller fairlead to bull bar, you will need to drill 2 x12mm holes into roller fairlead as per diagram.
	<ul> <li>25.Once winch is rotated, position winch on bench face up.</li> <li>26. Lower bull bar on top of winch and align holes.</li> <li>27. Place roller fairlead in bar cutout over lower holes and fasten using 3/8" Warn hardware and 4 3/8" flat washers supplied in bolt kit.</li> <li>28. To tighten bolts that hold roller fairlead to bar, remove vertical rollers using circlip pliers.</li> <li>29. When all is positioned, tighten all bolts firmly and replace vertical rollers.</li> </ul>

<image/>	<ul> <li>30. Fit control box to control box bracket and tighten firmly.</li> <li>31. Pull wires through viewer cutout under control box and wire up as per Warn instruction manual.</li> <li>32. Tie back cables clear of all moving parts with cable ties supplied.</li> <li>33. Place ground earth lead under bolt of winch tension bar.</li> <li>34. Fit buffers to bar using 6mm hardware.</li> </ul>
Photo is from RHS of vehicle.	<ul> <li>35. Lift bar into position between impact absorbers and bolt up using M10 x 25mm bolts, spring and flat washers. Finger tighten only. (Bolts fit from inside of bar.)</li> <li>36 .Adjust bar so that there is a 15mm gap around the periphery of the vehicle and securely tighten all remaining bolts throughout.</li> <li>37. Next step is to lock pin the bar so there is no movement by drilling a 10mm hole on both sides of vehicle, and fasten with 10mm x 25mm bolts plus 10mm hardware.</li> </ul>
<image/>	<ul> <li>38.Wire main power leads to battery as per Warn instructions and cable tie leads securely from all moving parts with cable ties supplied.</li> <li>39. Fit number plate to bar using 6mm hardware.</li> <li>40. Pull winch cable through roller fairlead, and fit tow hook.</li> <li>41. Connect the indicator looms to the existing indicator loom with the Scotchlocks supplied. Test to ensure the indicators function correctly.</li> <li>42. Drill out plastic inner guard panel with 6mm drill bit using holes in bar return as template.</li> <li>43. Secure with 6mm hardware.</li> </ul>

	44. Notch out plastic inner guard panel level with bottom of bar return, fold upward against bottom of vehicle crossmember and secure using self tapping screws.
	45. If bar is to be a non winch bar, bolt cover panel to bar using 6mm hardware.
<image/>	46. The air deflector is mounted beneath the bull bar using three of the existing bash plate bolts and three M6 bolts and hardware supplied in kit.





Carefully cut along joining line with a keyhole saw.

