# Rigid Side Guard

TiLite™ ZR, ZRA, AERO Z, Z10, ZR (Series 2), ZRA (Series 2), AERO Z (Series 2)

## Parts List

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## Profile Dimensions

- Small CP100778
- Standard CP100432

[Image of the side guard assembly and parts list]

**Parts Manual**

10-1.1
## Rigid Side Guard

### TiLite™ Twist

![Diagram of Rigid Side Guard](image)

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## RIGID SIDE GUARDS

**TiLite™ TR (SERIES 3), AERO T, TRA (SERIES 2), ZR (SERIES 2), ZRA (SERIES 2), AERO Z (SERIES 2), Aero X (SERIES 2), 2GX (SERIES 2)**

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**CON.** = CONSULT FACTORY FOR STYLE OF CLAMP WHEN ORDERING ASSEMBLIES ON NEXT PAGE
### RIGID SIDE GUARDS (CONT.)

**TiLite™ TR (SERIES 3), AERO T, TRA (SERIES 2), ZR (SERIES 2), ZRA (SERIES 2), AERO Z (SERIES 2), Aero X (SERIES 2), 2GX (SERIES 2)**

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**CON. = CONSULT FACTORY FOR STYLE OF CLAMP WHEN ORDERING**
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# CARBON FIBER SIDE GUARD

TiLite™ TR, TRC, YR, TRA, YRA, Evo, BB, X, SX, XC, YG, YGS,
Aero X, 2GX, TX, Aero R, TR (SERIES 2), YR (SERIES 2)

## Parts List

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**Profile Dimensions**

- SMALL CP102941 & CP102943
- STANDARD CP102940 & CP102942

---

**Notes:**

- Dimensions are approximate and subject to manufacturing tolerances.
- Parts may require additional hardware or assembly.
- Refer to the user manual for installation instructions.

---

**Parts Manual**

PM0304 REV L 3/26/12 FGC

**Parts List:**

- Item numbers correspond to the diagram for easy identification.
- Quantities indicate the number of pieces required for each part.
- Part numbers refer to specific components or subassemblies.
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# CARBON FIBER SIDE GUARDS

TiLite™ TWIST, TR (SERIES 3), AERO T, TRA (SERIES 2)
ZRA (SERIES 2), AERO Z (SERIES 2), Aero X (SERIES 2), 2GX (SERIES 2)

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<tr>
<td>3</td>
<td>4</td>
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<td>6-32 X 7/16&quot; FLAT HEAD CAP SCREW, BLACK ZINC</td>
</tr>
<tr>
<td>4</td>
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<td>RW100291</td>
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<tr>
<td>11</td>
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<td>SPRING .266 OD x .196 ID x .310&quot;</td>
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<tr>
<td>13</td>
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<td>1A-5</td>
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<td>AS103182</td>
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<tr>
<td>1D-6</td>
<td>AS103188</td>
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CON. = CONSULT FACTORY FOR STYLE OF CLAMP WHEN ORDERING ASSEMBLIES ON NEXT PAGE

Parts Manual
## CARBON FIBER SIDE GUARDS (CONT.)

TiLite™ TWIST, TR (SERIES 3), AERO T, TRA (SERIES 2), ZR (SERIES 2), ZRA (SERIES 2), AERO Z (SERIES 2), Aero X (SERIES 2), 2GX (SERIES 2)

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**CON.** = CONSULT FACTORY FOR STYLE OF CLAMP WHEN ORDERING
## CUSTOM CARBON FIBER SIDE GUARD

**ALL TiLite™ CHAIRS WITHOUT HOLES IN FRAMES AND 1" TUBING**

<table>
<thead>
<tr>
<th>ITEM</th>
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<th>PART NO.</th>
<th>DESCRIPTION</th>
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<td>CP102940</td>
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<td>CP102941</td>
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<tr>
<td>1C</td>
<td>1</td>
<td>CP102942</td>
<td>QUAD CARBON FIBER SIDE GUARD PANEL</td>
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<tr>
<td>1D</td>
<td>1</td>
<td>CP102943</td>
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<tr>
<td>2</td>
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<td>CP100435</td>
<td>SIDE GUARD BRACKET RIGID</td>
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<tr>
<td>3B</td>
<td>4</td>
<td>HD100466</td>
<td>6-32 X 7/16&quot; FLAT HEAD CAP SCREW, BLACK ZINC</td>
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<td>4</td>
<td>4</td>
<td>HD100449</td>
<td>NYLON COUNTERSUNK WASHER #6, .437 O.D. X .1&quot; THICK</td>
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<tr>
<td>5</td>
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<td>CP100434</td>
<td>1 INCH TOE CLAMP</td>
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<td>CP100433</td>
<td>CAP FOR RIGID SIDE GUARD</td>
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<td>2</td>
<td>HD100060</td>
<td>SPRING .266 OD X .196 ID X .310</td>
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<td>1/4-20 X 1&quot; SOCKET HEAD CAP SCREW, BLACK ZINC PLATED</td>
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<tr>
<td>10</td>
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<td>10-32 X 5/8&quot; FLAT HEAD SOCKET CAP SCREW, BLACK ZINC</td>
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<tr>
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<td>CP102417</td>
<td>SIDE GUARD ANTI-SLIP TAPE</td>
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<td>HD100348</td>
<td>WASHER, .255ID x .3950D x .048</td>
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<tr>
<td>13</td>
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<td>RW100291</td>
<td>EDGE TRIM FOR 3/32 MATERIAL</td>
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### Fold Down Side Guard

**TiLite™ TR, TRC, YR, TRA, YRA, EVO, BB, YG, YGS**

**AERO R, ZR, ZRA, AERO Z, TR (SERIES 2), YR (SERIES 2), ZR (SERIES 2), ZRA (SERIES 2), AERO Z (SERIES 2)**

---

#### Parts List

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<th>DESCRIPTION</th>
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<tr>
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<td>Fold Down Side Guard Mount (for Ø1.00&quot; Tube)</td>
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<tr>
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<td>CP102489</td>
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<td>Fold Down Side Guard Bracket Assembly</td>
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<td>Fold Down Side Guard Screw</td>
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<td>Fold Down Side Guard Striker Plate - Composite</td>
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<td>Spring - .546 OD, .346 ID x .410 LG</td>
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<td>Washer 1/4&quot; Light AN Washer (.265 ID x .500 OD x .032 THK)</td>
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<td>HD100067</td>
<td>.500 O.D. x .265 I.D. x .031 Thick Washer</td>
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<td>Nylon Countersunk Washer #6, .437 O.D. x 1&quot; Thick</td>
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#### Chair Type

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<th>SMALL PAIR</th>
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<td>AS102928</td>
<td>AS102931</td>
<td>AS102929</td>
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<td>AS102918</td>
<td>AS102916</td>
<td>AS102917</td>
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**CON. = CONSULT FACTORY FOR STYLE OF CLAMP WHEN ORDERING**

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**PROFILE DIMENSIONS**
FOLD DOWN CARBON FIBER SIDE GUARD

TiLite™ TR, TRC, YR, TRA, YRA, EVO, BB, YG, YGS
AERO R, ZR, ZRA, AERO Z, TR (SERIES 2), YR (SERIES 2),
ZR (SERIES 2), ZRA (SERIES 2), AERO Z (SERIES 2)

---

ITEM | QTY | PART NO. | DESCRIPTION
---|---|---|---
CON. 1A | 1 | CP102486 | FOLD DOWN SIDE GUARD MOUNT (FOR Ø1.25" TUBE)
1B | 1 | CP102511 | FOLD DOWN SIDE GUARD MOUNT (FOR Ø1.00" TUBE)
CON. 2A | 1 | CP102489 | FOLD DOWN SIDE GUARD TOE CLAMP (FOR Ø1.25" TUBE)
2B | 1 | CP102512 | FOLD DOWN SIDE GUARD TOE CLAMP (FOR Ø1.00" TUBE)
3 | 1 | CP102490 | FOLD DOWN SIDE GUARD BRACKET ASSEMBLY
4 | 1 | CP102488 | FOLD DOWN SIDE GUARD SCREW
5 | 1 | CP102672 | FOLD DOWN SIDE GUARD STRIKER PLATE - COMPOSITE
6 | 1 | HD100379 | SPRING - .546 OD .346 ID X .410 LG
7 | 2 | HD100402 | WASHER 1/4" LIGHT AN WASHER (.265 ID X .500 OD X .032 THK)
8 | 2 | HD100067 | .500 O.D. X .265 I.D. X .031 THICK WASHER
9 | 1 | HD100332 | 3-32 X 3/16” SOCKET SET SCREW, NYLON TIP
10 | 2 | HD100341 | 1/4-20 X 3/4” SOCKET HEAD CAP SCREW, BLACK ZINC
11 | 4 | HD100466 | 6-32 X 7/16” FLAT HEAD CAP SCREW, BLACK ZINC
12 | 4 | HD100449 | NYLON COUNTERSUNK WASHER #6, .437 O.D. X 1" THICK
13 | 2 | HD100348 | WASHER .255ID X .3950D X .048THK STEEL, ZINC PLATED
14 | 1 | HD100093 | DOWEL PIN .250" OD X .500" LONG SS
15A | 1 | CP102941 | CARBON FIBER SIDE GUARD PANEL SMALL
15B | 1 | CP102940 | CARBON FIBER SIDE GUARD PANEL
16 | 36" | RW100291 | EDGE TRIM FOR 3/32 MATERIAL
1A,2A,3-14,15A,16 | AS103224 | SMALL FOLD DOWN CARBON FIBER SIDE GUARD RIGHT ASSY W/ 1.25" CLAMP
1A,2A,3-14,15A,16 | AS103225 | SMALL FOLD DOWN CARBON FIBER SIDE GUARD LEFT ASSY W/ 1.25" CLAMP
1A,2A,3-14,15B,16 | AS103227 | STANDARD FOLD DOWN CARBON FIBER SIDE GUARD RIGHT ASSY W/ 1.25" CLAMP
1A,2A,3-14,15B,16 | AS103228 | STANDARD FOLD DOWN CARBON FIBER SIDE GUARD LEFT ASSY W/ 1.25" CLAMP
1A,2A,3-14,15A,16 | AS103226 | SMALL FOLD DOWN CARBON FIBER SIDE GUARD ASSY W/ 1.25" CLAMP, PAIR
1B,2B,3-14,15A,16 | AS103230 | SMALL FOLD DOWN CARBON FIBER SIDE GUARD RIGHT ASSY W/ 1" CLAMP
1B,2B,3-14,15A,16 | AS103231 | SMALL FOLD DOWN CARBON FIBER SIDE GUARD LEFT ASSY W/ 1" CLAMP
1B,2B,3-14,15B,16 | AS103232 | STANDARD FOLD DOWN CARBON FIBER SIDE GUARD RIGHT ASSY W/ 1" CLAMP
1B,2B,3-14,15B,16 | AS103233 | STANDARD FOLD DOWN CARBON FIBER SIDE GUARD LEFT ASSY W/ 1" CLAMP
1B,2B,3-14,15A,16 | AS103234 | SMALL FOLD DOWN CARBON FIBER SIDE GUARD ASSY W/ 1" CLAMP, PAIR
1B,2B,3-14,15B,16 | AS103235 | STANDARD FOLD DOWN CARBON FIBER SIDE GUARD ASSY W/ 1" CLAMP, PAIR
1A,2A,3-10,13,14 | AS102939 | FOLD DOWN SIDE GUARD 1.25" CLAMP ASSEMBLY
1B,2B,3-10,13,14 | AS102940 | FOLD DOWN SIDE GUARD 1" CLAMP ASSEMBLY

<table>
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<tr>
<th>CHAIR TYPE</th>
<th>SMALL RIGHT</th>
<th>SMALL LEFT</th>
<th>SMALL PAIR</th>
<th>STD RIGHT</th>
<th>STD LEFT</th>
<th>STD PAIR</th>
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<tr>
<td>TR, TRC, YR, TRA, YRA, EVO</td>
<td>AS103230</td>
<td>AS103231</td>
<td>AS103234</td>
<td>AS103232</td>
<td>AS103233</td>
<td>AS103235</td>
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<tr>
<td>ZR, ZRA, AERO Z</td>
<td>AS103224</td>
<td>AS103225</td>
<td>AS103228</td>
<td>AS103226</td>
<td>AS103227</td>
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CON. = CONSULT FACTORY FOR STYLE OF CLAMP WHEN ORDERING

Parts Manual
10-3.1

PM107 REV 0 11/20/13 LAA
### FOLD DOWN ALUMINUM SIDE GUARD

**TiLite™ TR (SERIES 3), AERO T, TRA (SERIES 2), ZR (SERIES 2), ZRA (SERIES 2), AERO Z (SERIES 2)**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>CON. 1A</td>
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<td>CP107251</td>
<td>FOLD DOWN SIDE GUARD MOUNT (FOR Ø 1.25&quot; TUBE)</td>
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<tr>
<td>1B</td>
<td>1</td>
<td>CP107249</td>
<td>FOLD DOWN SIDE GUARD MOUNT (FOR Ø 1.00&quot; TUBE)</td>
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<tr>
<td>CON. 2A</td>
<td>1</td>
<td>CP107250</td>
<td>FOLD DOWN SIDE GUARD TOE CLAMP (FOR Ø 1.25&quot; TUBE)</td>
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<td>CP107248</td>
<td>FOLD DOWN SIDE GUARD TOE CLAMP (FOR Ø 1.00&quot; TUBE)</td>
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<tr>
<td>3</td>
<td>1</td>
<td>CP107272</td>
<td>FOLD DOWN SIDE GUARD BRACKET</td>
</tr>
<tr>
<td>4V</td>
<td>2</td>
<td>HD100456</td>
<td>10-32 X .375&quot; BUTTON HEAD CAP SCREW, BLACK ZINC PLATED</td>
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<tr>
<td>5</td>
<td>2</td>
<td>HD100645</td>
<td>.562 OD X .250 ID X .020 THK, C SPRING WASHER</td>
</tr>
<tr>
<td>6</td>
<td>2</td>
<td>CP107217</td>
<td>FLANGE BUSHING .375 OD X 5/16 ID X .375 DEPTH</td>
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<tr>
<td>7</td>
<td>1</td>
<td>CP107273</td>
<td>FOLDING SIDE GUARD AXLE SLEEVE 10-32</td>
</tr>
<tr>
<td>8</td>
<td>1</td>
<td>HD100348</td>
<td>WASHER 255/D X 385 ID X .040 THK STEEL, ZINC PLATED</td>
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<tr>
<td>9</td>
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<td>HD100341</td>
<td>1/4-20 X 3/4&quot; SOCKET HEAD CAP SCREW, BLACK ZINC</td>
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<tr>
<td>10B</td>
<td>4</td>
<td>HD100444</td>
<td>6-32 X 3/8&quot; FLAT HEAD CAP SCREW, BLACK</td>
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<tr>
<td>11</td>
<td>4</td>
<td>HD100449</td>
<td>NYLON COUNTERSUNK WASHER #6, .437 O.D. X .1&quot; THICK</td>
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<tr>
<td>12A</td>
<td>1</td>
<td>CP100778</td>
<td>SIDE GUARD PANEL SMALL</td>
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<tr>
<td>12B</td>
<td>1</td>
<td>CP100432</td>
<td>SIDE GUARD RIGID PANEL</td>
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<tr>
<td>13</td>
<td>1</td>
<td>RW100291</td>
<td>EDGE TRIM FOR 3/32 MATERIAL</td>
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**Parts Manual**

**Chair Type**

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<tr>
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<th>SMALL PAIR</th>
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<tr>
<td>TR, AERO T, TRA</td>
<td>AS117029</td>
<td>AS117030</td>
<td>AS117033</td>
<td>AS117031</td>
<td>AS117032</td>
<td>AS117034</td>
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<td>ZR, ZRA, AEROZ</td>
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<td>AS117020</td>
<td>AS117018</td>
<td>AS117019</td>
<td>AS117021</td>
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**CON. = CONSULT FACTORY FOR STYLE OF CLAMP WHEN ORDERING**

---

10-3.2
FOLD DOWN CARBON FIBER SIDE GUARD

TiLite™ TR (SERIES 3), AERO T, TRA (SERIES 2)
ZR (SERIES 2), ZRA (SERIES 2), AERO Z (SERIES 2)

CON, 1B, 2A, 2B, 3, 4ÔV, 5, 6, 7, 8, 9, 10ÔB, 11, 12A, 12B, 13

ITEM  QTY  PART NO.  DESCRIPTION

CON. 1A  1  CP107251  FOLD DOWN SIDE GUARD MOUNT (FOR Ø1.25" TUBE)
1B  1  CP107249  FOLD DOWN SIDE GUARD MOUNT (FOR Ø1.00" TUBE)
CON. 2A  1  CP107250  FOLD DOWN SIDE GUARD TOE CLAMP (FOR Ø1.25" TUBE)
2B  1  CP107248  FOLD DOWN SIDE GUARD TOE CLAMP (FOR Ø1.00" TUBE)
3  1  CP107272  FOLD DOWN SIDE GUARD BRACKET
4ÔV  2  HD100456  10-32 X .375" BUTTON HEAD CAP SCREW, BLACK ZINC PLATED
5  2  HD100645  .562 OD X .250 ID X .020 THK, C SPRING WASHER
6  2  CP107217  FLANGE BUSHING .375 OD X 5/16 ID X .375 DEPTH
7  1  CP107273  FOLDING SIDE GUARD AXLE SLEEVE 10-32
8  1  HD100348  WASHER .255ID X .3950D X .048THK STEEL, ZINC PLATED
9  1  HD100341  1/4-20 X 3/4" SOCKET HEAD CAP SCREW, BLACK ZINC
10ÔB  4  HD100444  6-32 X 3/8" FLAT HEAD CAP SCREW, BLACK
11  4  HD100449  NYLON COUNTERSUNK WASHER #6, .437 O.D. X .1" THICK
12A  1  CP102941  CARBON FIBER SIDE GUARD PANEL SMALL
12B  1  CP102940  CARBON FIBER SIDE GUARD PANEL
13  1  RW100291  EDGE TRIM FOR 3/32 MATERIAL

1A,2A,3,11,12A,13  AS117023  SMALL FOLD DOWN CARBON FIBER SIDE GUARD RIGHT ASSEMBLY 1.25"
1A,2A,3,11,12B,13  AS117024  SMALL FOLD DOWN CARBON FIBER SIDE GUARD LEFT ASSEMBLY 1.25"
1A,2A,3,11,12,13  AS117025  STANDARD FOLD DOWN CARBON FIBER SIDE GUARD RIGHT ASSEMBLY 1.25"
1A,2A,3,11,12,13  AS117026  STANDARD FOLD DOWN CARBON FIBER SIDE GUARD LEFT ASSEMBLY 1.25"
1A,2A,3,11,12A,13  AS117027  SMALL FOLD DOWN CARBON FIBER SIDE GUARD ASSEMBLY, PAIR 1.25"
1A,2A,3,11,12B,13  AS117028  STANDARD FOLD DOWN CARBON FIBER SIDE GUARD ASSEMBLY, PAIR 1.25"
1B,2B,3,11,12A,13  AS117036  SMALL FOLD DOWN CARBON FIBER SIDE GUARD RIGHT ASSY W/ 1" CLAMP
1B,2B,3,11,12B,13  AS117037  SMALL FOLD DOWN CARBON FIBER SIDE GUARD LEFT ASSY W/ 1" CLAMP
1B,2B,3,11,12,13  AS117038  STANDARD FOLD DOWN CARBON FIBER SIDE GUARD RIGHT ASSY W/ 1" CLAMP
1B,2B,3,11,12,13  AS117039  STANDARD FOLD DOWN CARBON FIBER SIDE GUARD LEFT ASSY W/ 1" CLAMP
1B,2B,3,11,12A,13  AS117040  SMALL FOLD DOWN CARBON FIBER SIDE GUARD ASSY W/ 1" CLAMP, PAIR
1B,2B,3,11,12B,13  AS117041  STANDARD FOLD DOWN CARBON FIBER SIDE GUARD ASSY W/ 1" CLAMP, PAIR
1A,2A,3,9  AS117022  FOLD DOWN SIDE GUARD 1.25" CLAMP ASSEMBLY
1B,2B,3,9  AS117035  FOLD DOWN SIDE GUARD 1" CLAMP ASSEMBLY

CHAIR TYPE  SMALL RIGHT  SMALL LEFT  SMALL PAIR  STD RIGHT  STD LEFT  STD PAIR
TR, AERO T, TRA  AS117036  AS117037  AS117040  AS117036  AS117039  AS117041
ZR, ZRA, AEROZ  AS117023  AS117024  AS117027  AS117025  AS117026  AS117028

CON. = CONSULT FACTORY FOR STYLE OF CLAMP WHEN ORDERING
## REMOVABLE CARBON FIBER FENDERED SIDE GUARDS

**TiLite™ TR (SERIES 2), YR (SERIES 2), Aero R**

DUE TO GUARDS BEING MADE CUSTOM PER CHAIR, SERIAL NUMBER IS REQUIRED FOR REPLACEMENT OR RETRO-FITTING

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QUANTITY</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
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<td>CARBON FIBER FENDERED SIDE GUARD PAIR</td>
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<tr>
<td>2</td>
<td>2</td>
<td>CP100435</td>
<td>SIDEGUARD BRACKET RIGID</td>
</tr>
<tr>
<td>3B</td>
<td>8</td>
<td>HD100466</td>
<td>6-32 X 7/16&quot; FLAT HEAD CAP SCREW, BLACK</td>
</tr>
<tr>
<td>4</td>
<td>8</td>
<td>HD100449</td>
<td>NYLON COUNTERSUNK WASHER #6, .437 O.D. X .1&quot; THICK</td>
</tr>
<tr>
<td>5</td>
<td>2</td>
<td>CP100434</td>
<td>1&quot; TOE CLAMP</td>
</tr>
<tr>
<td>6</td>
<td>2</td>
<td>CP100436</td>
<td>SIDEGUARD MOUNT RIGID</td>
</tr>
<tr>
<td>7</td>
<td>2</td>
<td>CP100433</td>
<td>CAP FOR RIGID SIDEGUARD</td>
</tr>
<tr>
<td>8</td>
<td>4</td>
<td>HD100090</td>
<td>SPRING .266 OD X .196 ID X .310</td>
</tr>
<tr>
<td>9</td>
<td>2</td>
<td>HD100332</td>
<td>1/4-20 X 1&quot; SOCKET HEAD CAP SCREW, BLACK ZINC PLATED</td>
</tr>
<tr>
<td>10V</td>
<td>4</td>
<td>HD100339</td>
<td>10-32 X 5/8&quot; FLAT HEAD SOCKET CAP SCREW, BLACK ZINC</td>
</tr>
<tr>
<td>11</td>
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<td>HD100093</td>
<td>DOWEL PIN .250&quot; OD X .500&quot; LONG SS</td>
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<td>12</td>
<td>2</td>
<td>HD100348</td>
<td>WASHER, .255ID x .395OD x .048</td>
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<td>13A</td>
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<td>CP103516</td>
<td>FENDERED SIDEGUARD TAB LEFT</td>
</tr>
<tr>
<td>13B</td>
<td>1</td>
<td>CP103523</td>
<td>FENDERED SIDEGUARD TAB RIGHT</td>
</tr>
<tr>
<td>14</td>
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<td>HD100014</td>
<td>COVED WASHER 1&quot; OD X 1/4&quot; ID X 1/8&quot; THK</td>
</tr>
<tr>
<td>15B</td>
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<td>HD100069</td>
<td>10-32 X 1/4&quot; BUTTON HEAD CAP SCREW, CLEAR ZINC PLATED</td>
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<tr>
<td>5-12</td>
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<td>AS100106</td>
<td>RIGID SIDEGUARD CLAMP SUB-ASSY</td>
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<tr>
<td>1-4</td>
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<td>CARBON FIBER FENDERED SIDEGUARD ASSEMBLY, PAIR</td>
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<tr>
<td>1-15</td>
<td>AS103892</td>
<td>CARBON FIBER FENDERED SIDEGUARD, W/ 1&quot; CLAMP, PAIR</td>
<td></td>
</tr>
</tbody>
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Due to the custom nature of the guards, a serial number is required for replacement or retro-fitting. The table above lists the necessary parts and their descriptions.
REMOVABLE CARBON FIBER FENDERED SIDE GUARDS
TiLite™ ZR, ZRA, AERO Z

DUE TO GUARDS BEING MADE CUSTOM PER CHAIR, SERIAL NUMBER IS REQUIRED FOR REPLACEMENT OR RETRO-FITTING

<table>
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<tr>
<th>ITEM</th>
<th>QTY</th>
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<th>DESCRIPTION</th>
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<td>2</td>
<td>2</td>
<td>CP100435</td>
<td>SIDE GUARD BRACKET RIGID</td>
</tr>
<tr>
<td>3A</td>
<td>8</td>
<td>HD100466</td>
<td>6-32 X 7/16&quot; FLAT HEAD CAP SCREW, BLACK</td>
</tr>
<tr>
<td>4</td>
<td>8</td>
<td>HD100449</td>
<td>NYLON COUNTERSUNK WASHER #6, .437 O.D. X .1&quot; THICK</td>
</tr>
<tr>
<td>5</td>
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<td>CP102059</td>
<td>1-1/4&quot; SIDE GUARD MOUNT RIGID</td>
</tr>
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<td>CP102296</td>
<td>TOE CLAMP 1 1/4 CAMBER MOUNT WITH HOLE</td>
</tr>
<tr>
<td>7</td>
<td>2</td>
<td>CP100433</td>
<td>CAP FOR RIGID SIDE GUARD</td>
</tr>
<tr>
<td>8</td>
<td>2</td>
<td>HD100332</td>
<td>1/4-20 X 1&quot; SOCKET HEAD CAP SCREW, BLACK</td>
</tr>
<tr>
<td>9V</td>
<td>4</td>
<td>HD100339</td>
<td>10-32 X 5/8&quot; FLAT HEAD SOCKET CAP SCREW, BLACK ZINC</td>
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<td>10</td>
<td>4</td>
<td>HD100090</td>
<td>SPRING .266 OD x .196 ID x .310&quot;</td>
</tr>
<tr>
<td>11</td>
<td>2</td>
<td>HD100348</td>
<td>WASHER .255OD X .395OD X .048THK STEEL, ZINC PLATED</td>
</tr>
<tr>
<td>12</td>
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<td>15B</td>
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<td>10-32 X 1/4&quot; BUTTON HEAD CAP SCREW, CLEAR ZINC PLATED</td>
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<td>AS102333</td>
<td>SIDE GUARD CLAMP ASSEMBLY 1.25&quot;</td>
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<td>CARBON FIBER FENDERED SIDE GUARD ASSEMBLY, PAIR</td>
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<td>CARBON FIBER FENDERED SIDE GUARD, W/ 1¼&quot; CLAMP, PAIR</td>
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PM376 REV G 5/23/11 CMM
Parts Manual

10-4.1
## REMOVABLE CARBON FIBER FENDERED SIDE GUARDS

**TiLite™ ZR (SERIES 2), ZRA (SERIES 2), AERO Z (SERIES 2)**

Due to guards being made custom per chair, serial number is required for replacement or retro-fitting.

<table>
<thead>
<tr>
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<th>QTY</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
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<td>2</td>
<td>CP100435</td>
<td>SIDEGUARD BRACKET RIGID</td>
</tr>
<tr>
<td>3ØB</td>
<td>8</td>
<td>HD100466</td>
<td>6-32 X 7/16&quot; FLAT HEAD CAP SCREW, BLACK</td>
</tr>
<tr>
<td>4</td>
<td>8</td>
<td>HD100449</td>
<td>NYLON COUNTERSUNK WASHER #6, .437 O.D. X .1&quot; THICK</td>
</tr>
<tr>
<td>5</td>
<td>2</td>
<td>CP102059</td>
<td>1-½&quot; SIDEGUARD MOUNT RIGID</td>
</tr>
<tr>
<td>6</td>
<td>2</td>
<td>CP102296</td>
<td>TOE CLAMP 1 1/4 CAMBER MOUNT WITH HOLE</td>
</tr>
<tr>
<td>7</td>
<td>2</td>
<td>CP100433</td>
<td>CAP FOR RIGID SIDEGUARD</td>
</tr>
<tr>
<td>8</td>
<td>2</td>
<td>HD100332</td>
<td>1/4-20 X 1&quot; SOCKET HEAD CAP SCREW, BLACK</td>
</tr>
<tr>
<td>9ØV</td>
<td>4</td>
<td>HD100339</td>
<td>10-32 X 5/8&quot; FLAT HEAD SOCKET CAP SCREW, BLACK ZINC</td>
</tr>
<tr>
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<td>4</td>
<td>HD100090</td>
<td>SPRING .266 OD x .196 ID x .310&quot;</td>
</tr>
<tr>
<td>11</td>
<td>2</td>
<td>HD100348</td>
<td>WASHER .255ID X .395OD X .048THK STEEL, ZINC PLATED</td>
</tr>
<tr>
<td>12</td>
<td>2</td>
<td>HD100460</td>
<td>DOWEL PIN 1/4&quot; X 1-3/4&quot; STAINLESS STEEL</td>
</tr>
<tr>
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<td>CP103920</td>
<td>BAND CLAMP, THREADED</td>
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<td>2</td>
<td>CP103919</td>
<td>BAND CLAMP, THRU HOLE</td>
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<td>2</td>
<td>CP104720</td>
<td>FENDERED SIDE GUARD TAB</td>
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<tr>
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<td>HD100408</td>
<td>1/4-28 X 7/8&quot; BUTTON HEAD CAP SCREW BLACK ZINC</td>
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<tr>
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<td>SIDEGUARD CLAMP ASSEMBLY 1.25&quot;</td>
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<td>1</td>
<td>AS104900</td>
<td>CARBON FIBER FENDERED SIDEGUARD ASSEMBLY, PAIR</td>
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<td>CARBON FIBER FENDERED SIDEGUARD, W/ 1¼&quot; CLAMP, PAIR</td>
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**REMOVABLE CARBON FIBER FENDERED SIDE GUARDS**

**TiLite™ TWIST, TR (SERIES 3), AERO T, TRA (SERIES 2)**

DUE TO GUARDS BEING MADE CUSTOM PER CHAIR, SERIAL NUMBER IS REQUIRED FOR REPLACEMENT OR RETRO-FITTING

<table>
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<tr>
<th>ITEM</th>
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<td>WASHER .255ID X .395OD X .048THK STEEL, ZINC PLATED</td>
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<td>CP103919</td>
<td>BAND CLAMP, THRU HOLE</td>
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## ALUMINUM FENDER SIDE GUARDS

**TiLite™ 2GX, AERO X**

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ALUMINUM ADJUSTABLE FENDERED SIDE GUARD ASSEMBLY
TiLite™ AERO X (SERIES 2), 2GX (SERIES 2)

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<td>1C</td>
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<td>CP104358</td>
<td>ADJUSTABLE FENDERED SIDE GUARD SHORT, RIGHT</td>
</tr>
<tr>
<td>1D</td>
<td>1</td>
<td>CP104359</td>
<td>ADJUSTABLE FENDERED SIDE GUARD SHORT, LEFT</td>
</tr>
<tr>
<td>2</td>
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<td>CP104352</td>
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<td>2</td>
<td>CP104351</td>
<td>SIDE GUARD CAM</td>
</tr>
<tr>
<td>4</td>
<td>8</td>
<td>HD100095</td>
<td>6-32 X 3/16&quot; BUTTON HEAD CAP SCREW, BLACK ZINC W/ THREAD PATCH</td>
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<td>5</td>
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<td>HD100599</td>
<td>1/4&quot; CONICAL WASHER</td>
</tr>
<tr>
<td>6V</td>
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<td>HD100471</td>
<td>1/4-20 X 5/8&quot; FLAT HEAD SOCKET CAP SCREW, BLACK ZINC</td>
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<tr>
<td>7</td>
<td>2</td>
<td>CP106645</td>
<td>ADJ FENDER SIDE GUARD OUTER CLAMP</td>
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<td>8</td>
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<td>2</td>
<td>HD100272</td>
<td>1/4&quot; HIGH COLLAR SPLIT LOCK WASHER</td>
</tr>
<tr>
<td>10</td>
<td>2</td>
<td>HD100608</td>
<td>1/4-20 X 7/8&quot; SOCKET HEAD CAP SCREW BLACK ZINC</td>
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<tr>
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<td>AS117967</td>
<td>ADJ. FENDERED SIDEGUARD CAM ASSY, PAIR</td>
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<td>ADJ. AL FENDERED SIDE GUARD ASSY, RIGHT</td>
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<td>ADJ. AL FENDERED SIDE GUARD ASSY, LEFT</td>
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<td>ADJ. AL FENDERED SIDE GUARD ASSY, (PAIR)</td>
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<td>ADJ. AL FENDERED SIDE GUARD SHORT ASSY, RIGHT</td>
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<td>AS117973</td>
<td>ADJ. AL FENDERED SIDE GUARD SHORT ASSY, (PAIR)</td>
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</tbody>
</table>

TABLE ONE - SEAT HEIGHT MATRIX

<table>
<thead>
<tr>
<th>SIZE TO USE</th>
<th>REAR SEAT HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>STANDARD</td>
<td>14.5&quot;-16.5&quot;</td>
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<tr>
<td>SHORT</td>
<td>17&quot;-18.5&quot;</td>
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PM1051 REV A 12/10/14 JWD

Parts Manual

10-4.2.1
## Aluminum Adjustable Fendered Sideguard Assembly

**TiLite™ ZR (Series 2), ZRA (Series 2), AERO Z (Series 2)**

### Table of Parts

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QUANTITY</th>
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<th>DESCRIPTION</th>
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<td>Adjustable Fendered Sideguard, Right</td>
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<td>1B</td>
<td>1</td>
<td>CP104354</td>
<td>Adjustable Fendered Sideguard, Left</td>
</tr>
<tr>
<td>1C</td>
<td>1</td>
<td>CP104358</td>
<td>Adjustable Fendered Sideguard Short, Right</td>
</tr>
<tr>
<td>1D</td>
<td>1</td>
<td>CP104359</td>
<td>Adjustable Fendered Sideguard Short, Left</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>CP104352</td>
<td>Sideguard Cam Cover</td>
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<tr>
<td>3</td>
<td>2</td>
<td>CP104351</td>
<td>Sideguard Cam</td>
</tr>
<tr>
<td>4</td>
<td>8</td>
<td>HD100095</td>
<td>6-32 x 3/16&quot; Button Head Cap Screw, Black Zinc With Thread Patch</td>
</tr>
<tr>
<td>5</td>
<td>2</td>
<td>HD100599</td>
<td>1/4&quot; Conical Washer</td>
</tr>
<tr>
<td>6\V</td>
<td>1</td>
<td>HD100667</td>
<td>1/4-20 X 7/8&quot; Flat Head Cap Screw Black Zinc</td>
</tr>
<tr>
<td>7</td>
<td>1</td>
<td>HD100471</td>
<td>1/4-20 X 5/8&quot; Flat Head Cap Screw Black Zinc</td>
</tr>
<tr>
<td>8</td>
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<td>CP104325</td>
<td>Sideguard Spacer</td>
</tr>
<tr>
<td>9</td>
<td>1</td>
<td>CP108143</td>
<td>1.25&quot; Adj Fender Sideguard Clamp Outer</td>
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<td>Fold Down Side Guard Toe Clamp (For 1.25&quot; Tube)</td>
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<td>1/4&quot; High Collar Split Lock Washer</td>
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<td>1/4-20 X 7/8&quot; Socket Head Cap Screw, Black Zinc</td>
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<tr>
<td>2-12</td>
<td>1</td>
<td>AS118173</td>
<td>Adj. Fendered Sideguard Cam Assy, Pair (Ø1.25 Frame With Rail)</td>
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### Table One - Seat Height Matrix

<table>
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<th>Size to Use</th>
<th>Rear Seat Height</th>
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<tr>
<td>Standard</td>
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<td>Short</td>
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**PM0591 REV 1/6/2015 LAA**
## TABLE ONE - SEAT HEIGHT MATRIX

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<th>SIZE TO USE</th>
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<tr>
<td>SHORT</td>
<td>17&quot;-18.5&quot;</td>
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</tbody>
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### ITEM QUANTITY PART NO. DESCRIPTION

| 1A | 1 | CP107533 | ADJUSTABLE CARBON FENDERED SIDE GUARD, RIGHT |
| 1B | 1 | CP107534 | ADJUSTABLE CARBON FENDERED SIDE GUARD, LEFT  |
| 1C | 1 | CP107535 | ADJUSTABLE CARBON FENDERED SIDE GUARD SHORT, RIGHT |
| 1D | 1 | CP107536 | ADJUSTABLE CARBON FENDERED SIDE GUARD SHORT, LEFT |
| 2  | 2 | CP104352 | SIDE GUARD CAM COVER                        |
| 3  | 2 | CP104351 | SIDE GUARD CAM                             |
| 4  | 8 | HD100095 | 6-32 X 3/16" BUTTON HEAD CAP SCREW, BLACK ZINC WITH THREAD PATCH |
| 5  | 2 | HD100599 | 1/4" CONICAL WASHER                        |
| 6  | 1 | HD100667 | 1/4-20 X 7/8" FLAT HEAD CAP SCREW, BLACK ZINC |
| 7  | 1 | HD100471 | 1/4-20 X 5/8" FLAT HEAD CAP SCREW, BLACK ZINC |
| 8  | 1 | CP104325 | SIDE GUARD SPACER                          |
| 9  | 1 | CP108143 | 1.25" ADJ. FENDER SIDE GUARD CLAMP OUTER    |
| 10 | 1 | CP107250 | FOLD DOWN SIDE GUARD TOE CLAMP (FOR 1.25" TUBE) |
| 11 | 1 | HD100272 | 1/4" HIGH COLLAR SPLIT LOCK WASHER          |
| 12 | 1 | HD100608 | 1/4-20 X 7/8" SOCKET HEAD CAP SCREW, BLACK ZINC |
| 2-12 |   | AS118173 | ADJ. FENDERED SIDE GUARD CAM ASSY, PAIR (Ø1.25 FRAME WITH RAIL) |
| 1A,2-12 |   | AS118575 | ADJ. CARBON FENDERED SIDE GUARD ASSY 1.25 WITH RAIL, RIGHT |
| 1B,2-12 |   | AS118576 | ADJ. CARBON FENDERED SIDE GUARD ASSY, LEFT |
| 1A,1B,2-12 |   | AS118577 | ADJ. CARBON FENDERED SIDE GUARD ASSY (PAIR) |
| 1C,2-12 |   | AS118578 | ADJ. CARBON FENDERED SIDE GUARD SHORT ASSY, RIGHT |
| 1D,2-12 |   | AS118579 | ADJ. CARBON FENDERED SIDE GUARD SHORT ASSY, LEFT |
| 1C,1D,2-12 |   | AS118580 | ADJ. CARBON FENDERED SIDE GUARD SHORT ASSY (PAIR) |
**ALUMINUM ADJUSTABLE FENDERED SIDE GUARD ASSEMBLY**

TiLite™ TR (SERIES 3), AERO T, TRA (SERIES 2)

<table>
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<td>CP104354</td>
<td>ADJUSTABLE FENDERED SIDE GUARD, LEFT</td>
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<tr>
<td>1C</td>
<td>1</td>
<td>CP104358</td>
<td>ADJUSTABLE FENDERED SIDE GUARD SHORT, RIGHT</td>
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<tr>
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<td>CP104351</td>
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<tr>
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<td>AS115195</td>
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**TABLE ONE - SEAT HEIGHT MATRIX**

<table>
<thead>
<tr>
<th>SIZE TO USE</th>
<th>REAR SEAT HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>STANDARD</td>
<td>14.5&quot;-16.5&quot;</td>
</tr>
<tr>
<td>SHORT</td>
<td>17&quot;-18.5&quot;</td>
</tr>
</tbody>
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PM841-REV D 10/23/13 LAA

Parts Manual

10-4.4
CARBON ADJUSTABLE FENDERED SIDE GUARD ASSEMBLY

TiLite™ TR (SERIES 3), AERO T, TRA (SERIES 2)

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QUANTITY</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
</tr>
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TABLE ONE - SEAT HEIGHT MATRIX

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CARBON ADJUSTABLE FENDERED SIDE GUARD ASSEMBLY
TiLite™ AERO X (SERIES 2), 2GX (SERIES 2)

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<td>ADJ FENDER SIDE GUARD INNER CLAMP</td>
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TABLE ONE - SEAT HEIGHT MATRIX

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<th>SIZE TO USE</th>
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PM1050 REV A 12/1/14 JWD
Parts Manual
# ALUMINUM ADJUSTABLE FENDERED SIDE GUARD ASSEMBLY WITH WHEEL LOCK

## TiLite™ TWIST

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<td>CP104352</td>
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**Diagram Description**

1. **Item 1A**: Aluminum Fendered Side Guard with Wheel Lock Sub Assembly, Right
2. **Item 1B**: Aluminum Fendered Side Guard with Wheel Lock Sub Assembly, Left
3. **Item 2**: Side Guard Cam
4. **Item 3**: Side Guard Cam Cover
5. **Item 4**: 1/4" Conical Washer
6. **Item 5A**: 6-32 x 3/16" Button Head Cap Screw, Black Zinc
7. **Item 6**: Side Guard Spacer
8. **Item 7**: Adj Fender Side Guard Clamp Inner
9. **Item 8**: Adj Fender Side Guard Clamp Outer
10. **Item 9**: 1/4 High Collar Split Lock Washer
11. **Item 10**: 1/4-20 x 7/8" Socket Head Cap Screw, Black Zinc
12. **Item 11B**: 1/4-20 x 7/8" Flat Head Cap Screw, Black Zinc
13. **Item 12**: Nylon Spacer
14. **Item 13B**: 1/4-20 x 3/4" Flat Head Socket Cap Screw, Black Zinc
15. **Item 1A, 2-13**: Aluminum Fendered Side Guard with Wheel Lock, Right
16. **Item 1B, 2-13**: Aluminum Fendered Side Guard with Wheel Lock, Left
CLOTH SIDE GUARDS
TiLite™ TR, ZR, ZRA, AERO Z, YR, TRA, YRA, Evo, BB, YG, YGS, AERO R, TR (SERIES 2), YR (SERIES 2), ZR (SERIES 2), ZRA (SERIES 2), AERO Z (SERIES 2), TWIST, TR (SERIES 3), AERO T, TRA (SERIES 2)

ITEM | QUANTITY | PART NO. | DESCRIPTION
--- | --- | --- | ---
1A | 1 | CP100089 | SIDE GUARD SMALL LT - CLOTH
1B | 1 | CP100087 | SIDE GUARD MEDIUM LT - CLOTH
1C | 1 | CP101676 | SIDE GUARD LARGE LT - CLOTH
2A | 1 | CP100090 | SIDE GUARD SMALL RT - CLOTH
2B | 1 | CP100088 | SIDE GUARD MEDIUM RT - CLOTH
2C | 1 | CP101677 | SIDE GUARD LARGE RT - CLOTH
CLOTH SIDE GUARDS

TiLite™ X, SX, TX, Aero X, 2GX, Aero X (SERIES 2), 2GX (SERIES 2)

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CHAIR WIDTH | RIGHT | LEFT |
-------------|-------|------|
FITS X, SX, AERO X, 2GX  | CP100581 | CP100580 |
FITS TX     | CP100866 | CP100865 |
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## ANTI-TIP ASSEMBLY

**TiLite™ ZR (SERIES 2)**

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# Anti-Tip Assembly

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ANTI-TIP ASSEMBLY

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ANTI-TIP ASSEMBLY FOR FROG LEG® REAR SUSPENSION
TiLite™ TR(SERIES 2), TRC(SERIES 2), YR(SERIES 2), TR (SERIES 3)

ITEM | QUANTITY | PART NO. | DESCRIPTION
--- | --- | --- | ---
1A | 1 | CP100550 | ANTI-TIP EXTENSION SHORT
1B | 1 | CP100212 | ANTI-TIP LOWER EXTENSION TUBE
2A | 1 | CP103899 | ANTI-TIP EXT TUBE EXTRA SHORT
2B | 1 | CP100919 | ANTI-TIP EXT TUBE SHORT
2C | 1 | CP100918 | ANTI-TIP EXT TUBE LONG
3A | 1 | CP103126 | FROG LEG® SUSPENSION - USERS UNDER 180 LBS. (PAIR)
3B | 1 | CP103127 | FROG LEG® SUSPENSION - USERS OVER 180 LBS. (PAIR)
4 | 1 | HD100232 | SINGLE END DUAL SNAP BUTTON
5 | 1 | CP101045 | ANTI-TIP MOUNT
6 | 1 | CP100251 | SNAP BUTTON,.240 O.D. X .290 TALL
7 | 2 | CP103207 | ANTI-TIP WHEEL, TRI-SPOKE
8 | 1 | HD100439 | 1/4-28 X 2" BUTTON HEAD CAP SCREW, BLACK
9 | 4 | HD100067 | NYLON WASHER,.500 O.D. X .265 I.D. X .031 THICK
10 | 1 | HD100333 | 1/4-28 NYLOCK NUT THIN STYLE, BLACK ZINC PLATE
11 2A | 1 | HD100342 | 1/4-28 X 1-1/4" BUTTON HEAD CAP SCREW, BLACK ZINC
12 | 1 | CP103465 | ANTI-TIP SPACER FOR FROG REAR SUSPENSION
2A,4,6 | 1 | AS104503 | ANTI-TIP TUBE, EXTRA SHORT ASSEMBLY
2B,4,6 | 1 | AS100570 | ANTI-TIP TUBE, SHORT ASSEMBLY
2C,4,6 | 1 | AS100571 | ANTI-TIP TUBE, LONG ASSEMBLY
1A,7-10 | 1 | AS103461 | ANTI-TIP EXTENSION ASSY, SHORT
1B,7-10 | 1 | AS103462 | ANTI-TIP EXTENSION ASSY, LONG
1A,2A,3A,4-12 | 1 | AS104520 | EXTRA SHORT ANTI-TIP W/ SHORT EXT - UNDER 180LBS (PAIR)
1A,2A,3B,4-12 | 1 | AS104521 | EXTRA SHORT ANTI-TIP W/ SHORT EXT - OVER 180LBS (PAIR)
1B,2A,3A,4-12 | 1 | AS104522 | EXTRA SHORT ANTI-TIP W/ LONG EXT - UNDER 180LBS (PAIR)
1B,2A,3B,4-12 | 1 | AS104523 | EXTRA SHORT ANTI-TIP W/ LONG EXT - OVER 180LBS (PAIR)
1A,2B,3A,4-12 | 1 | AS103716 | SHORT ANTI-TIP W/ SHORT EXT - UNDER 180LBS (PAIR)
1A,2B,3B,4-12 | 1 | AS103717 | SHORT ANTI-TIP W/ SHORT EXT - OVER 180LBS (PAIR)
1B,2B,3A,4-12 | 1 | AS103718 | SHORT ANTI-TIP W/ LONG EXT - UNDER 180LBS (PAIR)
1B,2B,3B,4-12 | 1 | AS103719 | SHORT ANTI-TIP W/ LONG EXT - OVER 180LBS (PAIR)
1A,2C,3A,4-12 | 1 | AS103720 | LONG ANTI-TIP W/ SHORT EXT - UNDER 180LBS (PAIR)
1A,2C,3B,4-12 | 1 | AS103721 | LONG ANTI-TIP W/ SHORT EXT - OVER 180LBS (PAIR)
1B,2C,3A,4-12 | 1 | AS103722 | LONG ANTI-TIP W/LONG EXT - UNDER 180LBS (PAIR)
1B,2C,3B,4-12 | 1 | AS103723 | LONG ANTI-TIP W/LONG EXT - OVER 180LBS (PAIR)
## ANTI-TIP ASSEMBLY

**TiLite™ Aero X, 2GX, Aero R, Aero X (SERIES 2), 2GX (SERIES 2)**

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ASSEMBLIES CONTINUED ON NEXT PAGE

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**PM0353 REV I 10/6/14 JWD**

Parts Manual
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# ANTI-TIP ASSEMBLY

**TiLite™ X, SX, YG, YGS**

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ASSEMBLIES CONTINUED ON NEXT PAGE
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**ANTI-TIP ASSEMBLY**

**TiLite™ XC, TX**

**ITEM** | **QUANTITY** | **PART NO.** | **DESCRIPTION**
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1 | 1 | CP100775 | ANTI-TIP END PLUG
2 | 1 | CP100776 | ANTI-TIP RECEPTACLE
3 | 4 | HD100014 | COVED WASHER 1" OD X 1/4" ID X 1/8" THK
4 | 1 | HD100065 | 1/4-20 X 1" BUTTON HEAD CAP SCREW, CLEAR ZINC PLATED
5 | 1 | HD100125 | 1/4-20 X 1-3/4" BUTTON HEAD CAP SCREW
6A | 1 | CP100549 | ANTI-TIP TUBE MEDIUM
6B | 1 | CP100548 | ANTI-TIP TUBE SHORT
7 | 2 | CP100251 | SNAP BUTTONS, .240 O.D. X .290 TALL
8 | 1 | CP100550 | ANTI-TIP EXTENSION SHORT
9 | 2 | CP103207 | ANTI-TIP WHEEL, TRI-SPOKE
10 | 1 | HD100439 | 1/4-28 X 2" BUTTON HEAD CAP SCREW, BLACK
11 | 1 | HD100333 | 1/4-28 NYLOCK NUT THIN STYLE, BLACK ZINC PLATE
12 | 4 | HD100067 | NYLON WASHER, .500 O.D. X .265 I.D. X .031 THICK
1-5 | 1 | AS100507 | ANTI-TIP MOUNT ASSEMBLY
6A,7 | 1 | AS100456 | ANTI-TIP TUBE MEDIUM ASSEMBLY
6B,7 | 1 | AS100454 | ANTI-TIP TUBE SHORT ASSEMBLY
8-12 | 1 | AS103461 | ANTI-TIP EXTENSION ASSY, SHORT
1-5,6A,7-12 | 1 | AS104477 | ANTI-TIP ASSEMBLY MEDIUM
1-5,6A,7-12 | 1 | AS100502 | ANTI-TIP ASSEMBLY MEDIUM (PAIR)
1-5,6B,7-12 | 1 | AS104478 | ANTI-TIP ASSEMBLY SHORT
1-5,6B,7-12 | 1 | AS100501 | ANTI-TIP ASSEMBLY SHORT (PAIR)
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USER FRIENDLY REAR FLIP-UP ANTI-TIP
TiLite™ TR (SERIES 2), YR (SERIES 2)

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AS103085 FLIP-UP ANTI-TIPPER SUB-ASSEMBLY
AS103374 ANTI-TIP BENT TUBE SHORT ASSEMBLY
AS103375 ANTI-TIP BENT TUBE SHORT ASSEMBLY

FLIP-UP ANTI-TIP EXTENSION ASSY, SHORT
FLIP-UP ANTI-TIP EXTENSION ASSY, LONG
FLIP-UP ANTI-TIP ASSEMBLY SHORT-SHORT
FLIP-UP ANTI-TIP ASSEMBLY SHORT-SHORT PAIR
FLIP-UP ANTI-TIP ASSEMBLY SHORT-LONG
FLIP-UP ANTI-TIP ASSEMBLY SHORT-LONG PAIR
FLIP-UP ANTI-TIP ASSEMBLY LONG-SHORT
FLIP-UP ANTI-TIP ASSEMBLY LONG-SHORT PAIR
FLIP-UP ANTI-TIP ASSEMBLY LONG-LONG
FLIP-UP ANTI-TIP ASSEMBLY LONG-LONG PAIR
## USER FRIENDLY REAR FLIP-UP ANTI-TIP

**TiLite™ ZR**

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## USER FRIENDLY ANTI-TIP ASSEMBLY

TiLite™ ZR (SERIES 2)

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**ASSEMBLIES CONTINUED ON NEXT PAGE**

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Parts Manual
### USER FRIENDLY ANTI-TIP ASSEMBLY (CONTINUED)

**TiLite™ ZR (SERIES 2)**

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### Parts Manual

**USER FRIENDLY REAR FLIP-UP ANTI-TIP**

TiLite™ ZRA, AERO Z

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USER FRIENDLY ANTI-TIP ASSEMBLY
TiLite™ ZRA (SERIES 2), AERO Z (SERIES 2), TWIST, AERO T, TRA (SERIES 2)

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ASSEMBLIES CONTINUED ON NEXT PAGE
**USER FRIENDLY ANTI-TIP ASSEMBLY (CONTINUED)**

**TiLite™ ZRA (SERIES 2), AERO Z (SERIES 2), TWIST, AERO T, TRA (SERIES 2)**

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PM1023 REV A 6/2/14 LAA

10-7.3.1

Parts Manual
NEW USER FRIENDLY REAR FLIP-UP ANTI-TIP CONT.

TiLite™ Aero X, 2GX, Aero R, Aero X (SERIES 2)

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USER FRIENDLY REAR FLIP-UP ANTI-TIP

TiLite™ TRA, YRA

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BOLT AND SPACER PACKAGE FOR USE WITH ARMRESTS AND/OR STROLLER HANDLES

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## USER FRIENDLY REAR FLIP-UP ANTI-TIP

**TiLite™ TX**

NOT AVAILABLE ON TX FRAMES
WITH FIXED CENTER OF GRAVITY

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**Notes:**
- Parts still available as of 10-7.8.
- Discontinued parts as of 10-7.8.

---

**Legend:**
- TiLite™ Aero X, 2GX, Aero X (SERIES 2), 2GX (SERIES 2)

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**Parts Manual:**
- PM3922 REV E 10/6/14 LAA
- 10-7.7
NEW REAR FLIP UP USER FRIENDLY ANTI-TIPS W/ AMPUTEE AXLE

TiLite™ Aero X, 2GX, Aero X (SERIES 2)

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NEW REAR FLIP UP USER FRIENDLY ANTI-TIPS W/ AMPUTEE AXLE CONT.

TiLite™ Aero X, 2GX, Aero R, Aero X (SERIES 2)

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1 | 1 | CP107307 | NEW 5TH WHEEL FORK
2 | 1 | CP101415 | CASTER STEM STD. W/ 1/2" THREAD 1" EXTENSION
3 | 1 | HD100085 | 5/8" CASTER AXLE
4 | 2 | HD100331 | 10-32 X 3/8" TRUSS HEAD SCREW, BLACK ZINC PLATE
5 | 2 | HD100087 | 1/2-20 UNF LCK NUT THIN
6 | 2 | CP103006 | .316ID X .438OD X .317L CASTER AXLE SPACER
7 | 2 | CP104375 | C SPRING WASHER
8 | 2 | CP100937 | ANTI-TIP SPACER .200 THICK
9 | 2 | HD100012 | BEARING, 8mm I.D. X 22mm O.D. X 7mm W
10 | 1 | CP100006 | .438 X .400 SPACER
11 | 1 | CP100199 | HYPER X-360-82mm, 82A
12 | 2 | HD100011 | BEARING 1/2" I.D. X 1-1/8" O.D. X 5-16" W
13 | 2 | CP100934 | SLEEVE 1 X .051 TO 3/4
14 | 2 | CP106242 | ONE INCH TUBE FOOTREST CLAMP
15 | 2 | HD100050 | 1/4-20 X 3/4" SOCKET HEAD CAP SCREW
16 | 2 | HD100049 | 1/4-20 NYLOCK LOCKNUT THIN STYLE
17 | 2 | HD100235 | ATB BINDER BOLT
18 | 2 | CP100921 | ANTI-TIP CLAMP, BB CHAIR
19 | 2 | CP100935 | CLAMP, BINDER 3/4
20 | 2 | HD100065 | 1/4-20 X 1" BUTTON HEAD CAP SCREW, CLEAR ZINC PLATED
21 | 2 | HD100049 | 1/4-20 NYLOCK LOCKNUT THIN STYLE
22 | 2 | HD100007 | 1/2 AN WASHER .500ID .875OD .06
23 | 2 | CP100346 | CASTER EXTENSION 1/2"
24 | 1 | CP101168 | FIFTH WHEEL ANTI-TIP CUSTOM
25 | 1 | HD100086 | 1/2-20 UNF JAM NUT
26 | 1 | AS100356 | 3" ROLLER BLADE WHEEL ASSY
27 | 1 | AS100597 | FIFTH WHEEL ANTI-TIP STD
28 | 1 | AS100560 | FIFTH WHEEL ANTI-TIP (QUICK RELEASE)

CON = CONSULT FACTORY FOR SIZES WHEN ORDERING
CENTER MOUNT SINGLE SWIVEL CASTER ANTI-TIP ASSEMBLY

TiLite™ TWIST

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### TABLE ONE - ANTI-TIP STRUT, SWIVEL

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### TABLE THREE - CENTER MOUNT ANTI-TIP, SWIVEL ASSEMBLY

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</table>
TABLE ONE

ITEM  QUANTITY  PART NO.  DESCRIPTION
1     1         HD100673  SINGLE END SNAP BUTTON, Ø.188
2     1         CP105753  PRESS-IN TUBE END
3     1         CP105749  BULLET BARREL CLAMP "A"
4     1         CP105750  BULLET BARREL CLAMP "B"
5     1         CP105738  ANTI-TIP BULLET CLAMP
6     2         CP105748  ANGLE ADJUSTMENT CAM
7     1         CP105752  CENTER MOUNT ANTI-TIP RECEIVER Clamp
8     1         HD100674  QUICK RELEASE CAM LOCK, M6 X 55mm
9     1         CP105751  CENTER MOUNT ANTI-TIP RECEIVER
10    1         HD100663  1/4-28 X 1-3/4" SOCKET HEAD CAP SCREW, BLACK ZINC
11    8         HD100490  1/4" AN WASHER, .260 I.D. .500 O.D. .0625 THICK, BLACK ZINC
12    4         HD100333  1/4-28 NYLOCK NUT THIN STYLE, BLACK ZINC
13    1         HD100458  1/4-20 X 5/8" SOCKET HEAD CAP SCREW, BLACK ZINC
14    1         HD100429  SPRING, .328 OD. X .278 ID. X .630 LONG
15    2         HD100438  1/4-28 X 1-1/4" BUTTON HEAD CAP SCREW, BLACK
16    1         HD100512  1/4-28 X 1" BUTTON HEAD CAP SCREW, BLACK ZINC
17    1         HD100646  1/4-20 X 3/4" BUTTON HEAD CAP SCREW, BLACK ZINC
18    1         CP105754  FIXED ANTI-TIP TUBE
19    1         HD100127  END CAP 3/4" X .083 WALL TUBING
20    1         CP103207  ANTI-TIP WHEEL TRI-SPOKE
21    1         HD100677  NYLON WASHER, .500 OD X .265 ID X .031
22    1         HD100333  1/4-28 NYLOCK NUT THIN STYLE, BLACK ZINC
23    2         HD100439  1/4-28 X 2" BUTTON HEAD CAP SCREW, BLACK

CONTINUED ON NEXT PAGE
**Center Mount Single Non-Swivel Anti-Tip Assembly (Continued)**

TiLite™ Twist

<table>
<thead>
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<td>PRESS-IN TUBE END ASSEMBLY</td>
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**Table One - Anti-Tip Strut, Fixed**

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**Table Two - Anti-Tip Strut, Fixed Assembly**

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**Table Three - Center Mount Anti-Tip, Non-Swivel Assy**

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### TIP ASSIST

**TiLite™ Aero X, AERO X2, 2GX, 2GX2, Aero R**

* IF SEAT HEIGHT UNDER 15" MODIFY TO TAKE 2" OFF TOP OF TUBE

ALWAYS MOUNT AS HIGH AS POSSIBLE

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<td>TIP ASSIST TUBE*</td>
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<td>END CAP 3/4&quot; X .083 WALL TUBING</td>
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# TRAVEL AID ASSEMBLY

## TiLite™ TRA, YRA

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Note: For all fasteners use TRA TRAVEL AID BOLT PACKAGE.
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ULTRASUEDE IMPACT GUARDS
TiLite™ TR, TRA, Evo, XC, X, SX, TX, Aero R, TR (SERIES 2), YR (SERIES 2), TR (SERIES 3), AERO T, TRA (SERIES 2)

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<td>ULTRASUEDE IMPACT GUARDS LEFT-SX, YGS (10.50&quot;)</td>
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CHOOSE COLOR OF CENTER STRIP WHEN ORDERING:
- BLACK
- SAPPHIRE
- RED PEPPER
- BURNT ORANGE
- SUB-LIME
- ULTRAVIOLET
- ESPRESSO
- TILITE NITE-LITE REFLECTIVE
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<tr>
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<td>1.25&quot; TUBING NEOPRENE IMPACT GUARD (10.00&quot;)</td>
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<tr>
<td>1B</td>
<td>1</td>
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<td>1.25&quot; TUBING NEOPRENE IMPACT GUARD, SHORT (8.00&quot;)</td>
</tr>
<tr>
<td>1C</td>
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<td>CP106226</td>
<td>1.25&quot; TUBING NEOPRENE IMPACT GUARD, EXTRA SHORT (6.00&quot;)</td>
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</table>
ULTRASUEDE IMPACT GUARDS
TiLite™ ZR (SERIES 2), ZRA (SERIES 2), AERO Z (SERIES 2)

CHOOSE COLOR OF CENTER STRIP WHEN ORDERING
- BLACK
- SAPPHIRE
- RED PEPPER
- BURNT ORANGE
- SUB-LIME
- ULTRAVIOLET
- ESPRESSO
- TiLITE NITEUTE REFLECTIVE

<table>
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<tr>
<td>1B</td>
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<td>1.25&quot; TUBING ULTRASUEDE IMPACT GUARD, SHORT (8.00&quot;)</td>
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<td>1C</td>
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<td>1.25&quot; TUBING ULTRASUEDE IMPACT GUARD, EXTRA SHORT (6.00&quot;)</td>
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## ULTRASUEDE IMPACT GUARDS

**TiLite™ TWIST**

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<td>CP105844</td>
<td>ULTRASUEDE IMPACT GUARD, EXTRA SHORT (6.00&quot;)</td>
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- **CHOOSE COLOR OF CENTER STRIP WHEN ORDERING**
  - BLACK
  - SAPPHIRE
  - RED PEPPER
  - BURNT ORANGE
  - SUB-LIME
  - ULTRAVIOLET
  - ESPRESSO
  - TILITE NITELITE REFLECTIVE
## NEOPRENE IMPACT GUARDS

**TiLte™ 2GX, Aero X, Aero R WITH SWINGAWAY FRAMES, Aero X (SERIES 2), 2GX (SERIES 2)**

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<td>CP103487</td>
<td>NEOPRENE SWINGAWAY IMPACT GUARD, LEFT (10.50&quot;)</td>
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# REAR NEOPRENE IMPACT GUARDS

TiLite™ BB

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<td>REAR FRAME PROTECTOR</td>
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## TABLE ONE

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<td>13.00&quot;</td>
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<tr>
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<td>14.00&quot;</td>
<td>CP100966</td>
</tr>
<tr>
<td>14&quot;</td>
<td>15.00&quot;</td>
<td>CP100968</td>
</tr>
<tr>
<td>15&quot;</td>
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<td>18&quot;</td>
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<td>CP101057</td>
</tr>
<tr>
<td>19&quot;</td>
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<tr>
<td>20&quot;</td>
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<td>CP101057</td>
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<tr>
<td>ITEM</td>
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<td>PART NO.</td>
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<tr>
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<tr>
<td>1</td>
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SEATBELTS
CHIARS WITH TENSION ADJ BY STRAP SEAT SLING AND FOLDING ANG. ADJ. BACKS

<table>
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<tr>
<th>ITEM</th>
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<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>CP104222</td>
<td>VELCRO SEATBELT WITH BODYPOINT BRACKET</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>HD100105</td>
<td>1/4-28 X 2-1/4&quot; W/1-3/4&quot; SHOULDER BUTTON HEAD CAP SCREW</td>
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<tr>
<td>3</td>
<td>2</td>
<td>HD100067</td>
<td>NYLON WASHER .500 OD X .265 ID X .031</td>
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<tr>
<td>2-3</td>
<td></td>
<td>AS104934</td>
<td>HARDWARE PACKAGE FOR ADDING ON SEATBELTS</td>
</tr>
</tbody>
</table>
# SEATBELTS

TiLite Aero X, 2GX, Aero X (SERIES 2), 2GX (SERIES 2)

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<tr>
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<td>CP104222</td>
<td>VELCRO SEATBELT WITH BODYPOINT BRACKET</td>
</tr>
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</table>

![Diagram of seatbelts](image-url)
SEATBELTS
TiLite TX, ALSO FIXED BACK TR & YR W/ TENSION ADJ BY STRAP SEAT SLING

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<td>CP100905</td>
<td>VELCRO SEATBELT W/ METAL LOOPS</td>
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SEATBELTS
ZR (SERIES 2), ZRA (SERIES 2), AERO Z (SERIES 2), TR (SERIES 3), AERO T, TRA (SERIES 2)
WITH BY STRAP SEAT SLING AND FOLDING ANG. ADJ. BACKS, AND TWIST

<table>
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<tr>
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<td>CP104222</td>
<td>VELCRO SEATBELT WITH BODYPOINT BRACKET</td>
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<tr>
<td>1B</td>
<td>1</td>
<td>CP100852</td>
<td>AUTO STYLE RELEASE BUCKLE SEAT BELT</td>
</tr>
<tr>
<td>1C</td>
<td>1</td>
<td>CP105851</td>
<td>BODYPOINT HIP BELT, PUSH-BUTTON, SMALL, 8&quot;-12&quot; WIDTHS</td>
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<tr>
<td>1D</td>
<td>1</td>
<td>CP105852</td>
<td>BODYPOINT HIP BELT, PUSH-BUTTON, MEDIUM, 13&quot;-15&quot; WIDTHS</td>
</tr>
<tr>
<td>1E</td>
<td>1</td>
<td>CP105853</td>
<td>BODYPOINT HIP BELT, SIDE RELEASE, SMALL, 8&quot;-12&quot; WIDTHS</td>
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<td>1F</td>
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<td>BODYPOINT HIP BELT, SIDE RELEASE, MEDIUM, 13&quot;-15&quot; WIDTHS</td>
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<tr>
<td>1G</td>
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<td>CP105855</td>
<td>BODYPOINT HIP BELT, REHAB LATCH, SMALL, 8&quot;-12&quot; WIDTHS</td>
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<td>1H</td>
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<td>CP105856</td>
<td>BODYPOINT HIP BELT, REHAB LATCH, MEDIUM, 13&quot;-15&quot; WIDTHS</td>
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<td>2A</td>
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<td>HD100489</td>
<td>1/4-28 X 2-1/4&quot; W/1-3/4&quot; SHOULDER BHSCS, BLACK ZINC</td>
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<tr>
<td>2B</td>
<td>2</td>
<td>HD100491</td>
<td>1/4-28 X 2-3/4&quot; BUTTON HEAD CAP SCREW, BLACK ZINC</td>
</tr>
<tr>
<td>2C</td>
<td>2</td>
<td>HD100533</td>
<td>1/4-28 X 1-3/4&quot; BUTTON HEAD CAP SCREW, 1/2&quot; THREAD, BLACK ZINC</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>CP104721</td>
<td>1/4&quot; FLATHEAD SPACER</td>
</tr>
<tr>
<td>2A,3</td>
<td></td>
<td>AS110971</td>
<td>HARDWARE PACKAGE FOR ADDING ON SEATBELTS ON 1.25&quot; CHAIRS WITHOUT ARMRESTS,</td>
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<tr>
<td></td>
<td></td>
<td>AS111171</td>
<td>AND 1&quot; CHAIRS WITH ARMRESTS</td>
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<tr>
<td>2B,3</td>
<td></td>
<td>AS111998</td>
<td>HARDWARE PACKAGE FOR ADDING ON SEATBELTS WITH ARMRESTS ON 1.25&quot; CHAIRS</td>
</tr>
<tr>
<td>2C,3</td>
<td></td>
<td>AS111998</td>
<td>HARDWARE PACKAGE FOR ADDING ON SEATBELTS ON 1&quot; CHAIRS</td>
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SEATBELTS BODYPOINT EVOFLEX
ZR (SERIES 2), ZRA(SERIES 2), AERO Z(SERIES 2), TR(SERIES 3), AERO T, TRA(SERIES 2)
TWIST, 2GX, AERO X, AERO R, TX

<table>
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<td>EB235XS-20 EVOFLEX PELVIC STABILIZER X-small (8&quot;-12&quot; SEAT WIDTHS)</td>
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<td>1B</td>
<td>1</td>
<td>CP107400</td>
<td>EB205M-20 EVOFLEX PELVIC STABILIZER MEDIUM (13&quot;-17&quot; SEAT WIDTHS)</td>
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<tr>
<td>1C</td>
<td>1</td>
<td>CP107401</td>
<td>EB205L-20 EVOFLEX PELVIC STABILIZER LARGE (18&quot;-22&quot; SEAT WIDTHS)</td>
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<tr>
<td>2A</td>
<td>1</td>
<td>CP107402</td>
<td>HARDWARE PACKAGE HW320-25-10 BAND CLAMP 25 MM (1.0 in) DIA EVOFLEX</td>
</tr>
<tr>
<td>2B</td>
<td>1</td>
<td>CP107403</td>
<td>HARDWARE PACKAGE HW320-32-10 BAND CLAMP 32 MM (1.25 in) DIA EVOFLEX</td>
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CALF STRAP
ALL TiLite™ CHAIRS

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>CP100051</td>
<td>BUCKLE ADJUSTABLE CALFSTRAP</td>
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VELCRO CALF STRAP
ALL TiLite™ CHAIRS

ITEM QUANTITY PART NO. DESCRIPTION
1 1 SEE TABLE VELCRO CALF STRAP

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>DIM A</th>
<th>SUGGESTED FOOTREST WIDTHS</th>
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<tr>
<td>CP102418</td>
<td>13&quot;</td>
<td>6&quot;-9&quot;</td>
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<td>CP102516</td>
<td>16&quot;</td>
<td>9&quot;-12&quot;</td>
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<tr>
<td>CP102517</td>
<td>20&quot;</td>
<td>11&quot;-15&quot;</td>
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<tr>
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<td>14&quot;-17&quot;</td>
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<td>CP102519</td>
<td>26&quot;</td>
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# PADDED VELCRO CALF STRAP

## ALL TiLite™ CHAIRS

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### TABLE ONE - PADDED VELCRO CALF STRAP

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<td>19&quot;</td>
<td>8&quot; - 11&quot;</td>
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<td>CP103177</td>
<td>23&quot;</td>
<td>12&quot; - 15&quot;</td>
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<tr>
<td>CP103178</td>
<td>27&quot;</td>
<td>16&quot; - 20&quot;</td>
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BACK PACKS AND SEAT POUCHES
ALL TiLite™ CHAIRS

<table>
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<tr>
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<tr>
<td>1A</td>
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<td>CP101036</td>
<td>BACK PACK SMALL (10-3/4&quot; WIDE X 5-1/2&quot; DEEP X 12-1/2&quot; TALL)</td>
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<tr>
<td>1B</td>
<td>1</td>
<td>CP100261</td>
<td>BACK PACK LARGE (13&quot; WIDE X 8&quot; DEEP X 12-1/2&quot; TALL)</td>
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<tr>
<td>2A</td>
<td>1</td>
<td>CP100260</td>
<td>SEAT POUCH SMALL (8-1/2&quot; WIDE X 2&quot; DEEP X 6-1/2&quot; TALL)</td>
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<tr>
<td>2B</td>
<td>1</td>
<td>CP100929</td>
<td>SEAT POUCH LARGE (11-1/4&quot; WIDE X 3-1/2&quot; DEEP X 7&quot; TALL)</td>
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</table>

PLEASE NOTE THAT ALL DIMENSIONS LISTED ARE APPROXIMATE
## SPOKE GUARDS
### ALL TiLite™ CHAIRS

<table>
<thead>
<tr>
<th>ITEM</th>
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<td>1B</td>
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<td>AS102861</td>
<td>SPOKE GUARD 22&quot; ASSEMBLY, PAIR</td>
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<td>2A</td>
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<td>AS102862</td>
<td>SPOKE GUARD 24/25&quot; ASSEMBLY, PAIR</td>
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<tr>
<td>2B</td>
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<td>AS102863</td>
<td>SPOKE GUARD 26&quot; ASSEMBLY, PAIR</td>
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![Diagram showing the spoke guards for TiLite chairs]
SPOKE GUARDS
ALL TiLite® CHAIRS

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<tr>
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<td>SPOKE GUARD SNAP CLAMP</td>
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<td>TABLE ONE</td>
<td>SEE BELOW</td>
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### TABLE ONE - SPOKE GUARD S

<table>
<thead>
<tr>
<th>WHEEL SIZE</th>
<th>SCOOTER FROG</th>
<th>COLOR SPECTRUM</th>
<th>PURPLE PARTY</th>
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<tr>
<td>20&quot;</td>
<td>CP107129</td>
<td>CP107132</td>
<td>CP107135</td>
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<td>24&quot;</td>
<td>CP107132</td>
<td>CP107134</td>
<td>CP107137</td>
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### FRONT ANTI-TIP

**TiLite™ TR, TRA, EVO, YR, YRA, ZR, ZRA, TR(SERIES2), YR(SERIES2), AERO Z, ZR (SERIES 2), ZRA (SERIES 2), AERO Z (SERIES 2), TR (SERIES 3), AERO T, TRA (SERIES 2)**

<table>
<thead>
<tr>
<th>ITEM</th>
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<td>RIVNUT</td>
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<td>2</td>
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<td>CP100847</td>
<td>ROLLER</td>
</tr>
<tr>
<td>3</td>
<td>2</td>
<td>CP100909</td>
<td>ROLLER STANDBOFF 3/4 TO 3/4</td>
</tr>
<tr>
<td>4 B</td>
<td>2</td>
<td>HD100224</td>
<td>10-32 X 1&quot; BUTTON HEAD CAP SCREW</td>
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<tr>
<td>5</td>
<td>1</td>
<td>CP100848</td>
<td>ROLLER MOUNT</td>
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*FRONT ANTI-TIP MUST BE FACTORY INSTALLED*
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<td>CP100927</td>
<td>ROLLER STANDOFF 7/8 TO 3/4</td>
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<td>2</td>
<td>HD100224</td>
<td>10-32 X 1&quot; BUTTON HEAD CAP SCREW, CLEAR ZINC PLATED</td>
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<tr>
<td>4</td>
<td>1</td>
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<td>ROLLER MOUNT</td>
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<tr>
<td>1-4</td>
<td></td>
<td>AS100564</td>
<td>BASKETBALL ROLLER ASSY 7/8-3/4</td>
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# FRONT ROLLERS ON ANGLE ADJ FOOTRESTS

TiLite™ BB, TR, ZRA, ZR, Aero Z, YR, ZR (SERIES 2), ZRA (SERIES 2), AERO Z (SERIES 2), TR (SERIES 3), AERO T, TRA (SERIES 2)

<table>
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<td>ANGLE ADJ FOOTPLATE MOUNT (TABLE TWO)</td>
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## TABLE ONE

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<td>CP100858</td>
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<td>CP101983</td>
<td>18&quot;-19&quot;</td>
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## FRONT ROLLERS ON ANGLE ADJ FOOTRESTS

**TiLite™ Aero R**

### Item List

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<td>ANGLE ADJUSTABLE FOOTREST CLAMP LITE</td>
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### Chair Width Table

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HIGH MNT ANG ADJ. FOOTPLATE W/ FRONT ROLLRS
TiLite™ ZR, ZRA, AERO Z, Z10, TR(SERIES 2), YR (SERIES 2), ZR (SERIES 2), ZRA (SERIES 2), AERO Z (SERIES 2), TR (SERIES 3), AERO T, TRA (SERIES 2)

FOR 11"-13½" SEAT TO FOOTREST

FOR 7"-11" SEAT TO FOOTREST

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### TiLite™ TR(SERIES 2), YR (SERIES 2), TR (SERIES 3), AERO T, TRA (SERIES 2)

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<td>HIGH MNT ANG ADJ FTRST W FRONT ROLLERS 11½&quot;-12½&quot; MNT WIDTH, 9½&quot;-11½&quot; SEAT TO FTRST</td>
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<td>HIGH MNT ANG ADJ FTRST W FRONT ROLLERS 13½&quot;-14½&quot; MNT WIDTH, 9½&quot;-11½&quot; SEAT TO FTRST</td>
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## HIGH MNT ANG ADJ. FOOTPLATE W/ FRONT ROLLRS

### TiLite™ Aero R

#### FOR 11"-13½" SEAT TO FOOTREST

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<td>LUGGAGE CARRIER W/1.25&quot; CLAMP ASSEMBLY, PAIR</td>
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LUGGAGE CARRIER ASSEMBLY

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TiLite™ TR, YR, TRA, YRA, EVO, BB, X, SX, XC, YG, YGS, Aero X, 2GX, TX, Aero R, TR (SERIES 2), YR (SERIES 2), TR (SERIES 3), AERO T, TRA (SERIES 2), Aero X (SERIES 2), 2GX (SERIES 2)
**CLAMP-ON PUSH HANDLES**

TiLite™ TR, TRA, YR, YRA, ZR, ZRA, EVO, AERO Z, AERO R, TR (SERIES 2), YR (SERIES 2), ZR (SERIES 2), ZRA (SERIES 2), AERO Z (SERIES 2), TR (SERIES 3), AERO T, TRA (SERIES 2)

**Old Style Foam Grip**

No glue required on push handle (item 6)

**Mount Receptacle in Areas Shown**

Available on aluminum backrests only

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<td>Push handle clamp w/ threads</td>
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<td>Clamp-on push handle medium w/clamp assembly, pair</td>
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See next page for additional push handle height information
CLAMP-ON PUSH HANDLES (CONT.)

TiLite™ TR, TRA, YR, YRA, ZR, ZRA, EVO, AERO Z, AERO R, TR (SERIES 2), YR (SERIES 2), ZR (SERIES 2), ZRA (SERIES 2), AERO Z (SERIES 2), TR (SERIES 3), AERO T, TRA (SERIES 2)

PUSH HANDLE AND SEAT BACK STANDARD CONFIGURATIONS

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<tr>
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<td>SHORT</td>
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<td>MEDIUM</td>
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*BACKREST BRACKET REMOVED FOR CLARITY

PUSH HANDLE HEIGHT FROM SEAT

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<tr>
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<th>8-1/2&quot; - 12-1/2&quot; SEAT BACK</th>
<th>12-1/2&quot; - 16-1/2&quot; SEAT BACK</th>
<th>16-1/2&quot; - 20-1/2&quot; SEAT BACK</th>
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# CLAMP-ON PUSH HANDLES

**TiLite™ TWIST**

---

**Available on Aluminum Backrests Only**

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<th>DESCRIPTION</th>
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<td>PUSH HANDLE CLAMP WITHREDS</td>
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<td>2</td>
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<tr>
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<td>HD100332</td>
<td>1/4-20 X 1&quot; SOCKET HEAD CAP SCREW, BLACK ZINC PLATED</td>
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<td>5</td>
<td>3</td>
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<td>WASHER .255ID X .395OD X .048THK STEEL, ZINC PLATED</td>
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<td>6A</td>
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<td>CP103949</td>
<td>CLAMP-ON PUSH HANDLE TALL, LEFT</td>
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<td>6C</td>
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<td>CP103950</td>
<td>CLAMP-ON PUSH HANDLE MEDIUM, RIGHT</td>
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<tr>
<td>6D</td>
<td>1</td>
<td>CP103951</td>
<td>CLAMP-ON PUSH HANDLE MEDIUM, LEFT</td>
</tr>
<tr>
<td>6E</td>
<td>1</td>
<td>CP103952</td>
<td>CLAMP-ON PUSH HANDLE SHORT, RIGHT</td>
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<tr>
<td>6F</td>
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<td>CP103953</td>
<td>CLAMP-ON PUSH HANDLE SHORT, LEFT</td>
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<tr>
<td>6G</td>
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<td>CP103954</td>
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<td>6H</td>
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<td>PUSH HANDLE GRIP REPLACEMENT KIT FOR ROUND TUBE, PAIR</td>
</tr>
<tr>
<td>8</td>
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<td>HD100041</td>
<td>FOAM GRIP FOR 3/4&quot; TUBING, .705 I.D. X .187 WALL X 5&quot; LONG</td>
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<td>9</td>
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<td>1-5</td>
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<td>AS102852</td>
<td>CLAMP-ON PUSH HANDLE CLAMP ASSEMBLY</td>
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<td>CLAMP-ON PUSH HANDLE EXTRA SHORT W/CLAMP ASSY, PAIR</td>
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SEE NEXT PAGE FOR ADDITIONAL PUSH HANDLE HEIGHT INFORMATION
## TiLite™ TWIST

### Clamp-On Push Handles (Cont.)

**PUSH HANDLE AND SEAT BACK STANDARD CONFIGURATIONS**

<table>
<thead>
<tr>
<th>SEAT BACK HEIGHT</th>
<th>8-1/2”</th>
<th>9”</th>
<th>9-1/2”</th>
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<td>MEDIUM</td>
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*BACKREST BRACKET REMOVED FOR CLARITY*

**PUSH HANDLE HEIGHT FROM SEAT**

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<th>PULL HANDLE</th>
<th>8-1/2” - 12-1/2” SEAT BACK</th>
<th>12-1/2” - 16-1/2” SEAT BACK</th>
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<td>EXTRA SHORT</td>
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<td>8-3/4”</td>
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BOLT-ON HEIGHT ADJ PUSH HANDLE ASSEMBLY

TiLite™ TR, YR, TRA, YRA, ZR, ZRA, EVO, AERO Z, AERO R, TR (SERIES 2), YR (SERIES 2), ZR (SERIES 2), ZRA (SERIES 2), AERO Z (SERIES 2), TWIST, TR (SERIES 3), AERO T, TRA (SERIES 2)

MOUNT RECEPTACLE IN AREAS SHOWN

REQUIRES 4" DEEP RIGIDIZER TUBE

AVAILABLE ON ALUMINUM BACKREST ONLY AND HEAVY DUTY ALUMINUM (MEDIUM AND TALL, 16" AND WIDER)

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<td>TELESCOPING PUSH HANDLE CLAMP FRONT</td>
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<td>1/4-20 X 5/8 LONG SOCKET HEAD CAP SCREW</td>
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* AS115918-1 PUSH HANDLE GRIP REPLACEMENT KIT FOR ROUND TUBE, PAIR

TR/TRC/YR/TRC/EVO HEIGHT RANGE (TOP OF SEAT TO TOP OF HANDLE)

| 8" - 12" STANDARD BACKREST | 10"-15" WIDTH | 16"-20" WIDTH |
| 12" - 16" STANDARD BACKREST | 7.250" - 23.375" | 7.250" - 23.375" |
| 16" - 20" STANDARD BACKREST | 8.375" - 24.500" | 7.375" - 23.500" |

ZR/ZRA/AERO Z HEIGHT RANGE (TOP OF SEAT TO TOP OF HANDLE)

| 8.5" - 12.5" STANDARD BACKREST | 10"-15" WIDTH | 16"-20" WIDTH |
| 12.5" - 16.5" STANDARD BACKREST | 7.625" - 23.750" | 7.625" - 23.750" |
| 16.5" - 20.5" STANDARD BACKREST | 8.750" - 24.875" | 7.750" - 23.875" |

TWIST HEIGHT RANGE (TOP OF SEAT TO TOP OF HANDLE)

| 8.5" - 12.5" STANDARD BACKREST | 5.375" - 21.500" |
| 12.5" - 16.5" STANDARD BACKREST | 5.375" - 21.500" |
| 16.5" - 20.5" STANDARD BACKREST | 11.250" - 23.375" |

MAXIMUM ADJUSTABILITY OF TELESCOPING PUSH HANDLE IS 16.125"
TELESCOPING PUSH HANDLES MAY ONLY BE ATTACHED TO AN ALUMINUM BACKREST WITH A 4" DEEP RIGIDIZER BAR
# ADJUSTABLE HEIGHT PUSH HANDLES WITH FOLDING BACKREST BAR

**TiLite™ TX, X, SX, Aero X, 2GX, Aero X (SERIES 2), 2GX (SERIES 2)**

---

## Parts Manual

### Table One: Center Folding Backrest Half, Right (See Next Page)

<table>
<thead>
<tr>
<th>Item</th>
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<td>PUSH HANDLE, D-SHAPE</td>
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<td>1-23</td>
<td></td>
<td></td>
<td><strong>WITH FOLDING BACKREST BAR ASSY</strong></td>
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### Table Two: Center Folding Backrest Half, Left (See Next Page)

<table>
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<tr>
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### Table Three: Adjustable Height Clamp-On Push Handle (See Next Page) With Folding Backrest Bar Assy

<table>
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*Apply to inside of grip*
ADJUSTABLE HEIGHT PUSH HANDLES WITH FOLDING BACKREST BAR (CONT.)

TiLite™ TX, X, SX, Aero X, 2GX, Aero X (SERIES 2), 2GX (SERIES 2)

**TABLE ONE - CENTER FOLDING BACKREST HALF, RIGHT**

<table>
<thead>
<tr>
<th>SEAT WIDTH</th>
<th>12&quot;</th>
<th>13&quot;</th>
<th>14&quot;</th>
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<td>CP103250</td>
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<td>CP103252</td>
<td>CP103253</td>
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**TABLE TWO - CENTER FOLDING BACKREST HALF, LEFT**

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<td>CP103262</td>
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**TABLE THREE - ADJUSTABLE HEIGHT CLAMP-ON PUSH HANDLE W/FOLDING BACKREST BAR ASSY**

<table>
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<tr>
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FOLDING BACKREST BAR ASSEMBLY
TiLite™ TX, X, SX, Aero X, 2GX, Aero X (SERIES 2), 2GX (SERIES 2)

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<tr>
<td>4</td>
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<tr>
<td>1-18</td>
<td></td>
<td>TABLE THREE FOLDING BACKREST BAR ASSEMBLY</td>
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TABLE ONE - CENTER FOLDING BACKREST HALF, RIGHT

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TABLE THREE - FOLDING BACKREST BAR ASSEMBLY

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ADJUSTABLE HEIGHT PUSH HANDLES

TiLite™ TX, X, SX, Aero X, 2GX, Aero X (SERIES 2), 2GX (SERIES 2)

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<tr>
<td>2ÔY</td>
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<td>AS115919-4</td>
<td>PUSH HANDLE GRIP REPLACEMENT KIT FOR D-SHAPED TUBE, PAIR</td>
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<td>HD100155</td>
<td>SINGLE END SNAP BUTTON</td>
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<tr>
<td>4</td>
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<td>CP103197</td>
<td>SERRATED ADJ HT PUSH HANDLE PLATE</td>
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<td>2</td>
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<td>1/4-20 X .78&quot; STUD ADJUSTABLE HANDLE, BLACK</td>
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<tr>
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<td>6-32 X 3/8&quot; SHCS, BLACK ZINC</td>
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<td>9</td>
<td>4</td>
<td>HD100056</td>
<td>1/4&quot; AN WASHER .260 I.D. .500 O.D. .0625 THICK</td>
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<td>10</td>
<td>2</td>
<td>CP102593</td>
<td>Ø1.00 TO Ø.75 SPLIT SLEEVE</td>
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<td>1-3</td>
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<td>AS103169</td>
<td>PUSH HANDLE, D-SHAPE</td>
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<td>AS102839</td>
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* APPLY TO INSIDE OF GRIP
## CENTER MOUNT PUSH HANDLE

**TiLite™ TWIST**

![Diagram of center mount push handle]

* APPLY TO INSIDE OF GRIP

### Item, Quantity, Part No., Description

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<td>CP105121</td>
<td>Adjustable Height Push Handle - D Shape 14.25&quot;</td>
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<td>1C</td>
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<td>CP105815</td>
<td>Adjustable Height Push Handle - D Shape 19.25&quot;</td>
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<td>1</td>
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<td>HD100428</td>
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<td>1</td>
<td>HD100419</td>
<td>6-32 X 3/8&quot; SHCS, Black Zinc</td>
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<td>10-32 X 1/2 Socket Head Cap Screw, Black Zinc</td>
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### Twist Height Range: Top Of Seat To Top Of Handle

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ресурс: Parts Manual 10-18.7
## CENTER MOUNT STROLLER HANDLE

**TiLite™ TWIST**

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## TRANSPORT BRACKET OPTION

**TiLite™ ZR (SERIES 2)**

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* NOT SHOWN
**TRANSPORT BRACKET OPTION FOR USE W/ ARMRESTS**

TiLite™ ZR (SERIES 2)

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*NOT SHOWN*
## TRANSIT TIE-DOWN OPTION

TiLite™ ZRA (SERIES 2), DEPTH ADJUSTABLE ZRA (SERIES 2), AERO Z (TITANIUM FRAME), DEPTH ADJUSTABLE AERO Z (TITANIUM FRAME)

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### OBSOLETE

**WARNING**

AFFIX TO FRAME

**DECAL - TRANSPORT HOOK**

**TRANSIT TIE-DOWN WARNING BRACKET DECAL**

**TRANSIT TIE-DOWN PACKAGE**
### TRANSIT TIE-DOWN OPTION FOR USE W/ ARMRESTS

**TiLite™ ZRA (SERIES 2), AERO Z (TITANIUM FRAME)**

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## TRANSIT TIE-DOWN OPTION W/ TRANSIT SEATBELT BRACKET

**TiLite™ DEPTH ADJUSTABLE AERO Z (SERIES 2), DEPTH ADJUSTABLE AERO Z TITANIUM (SERIES 2), DEPTH ADJUSTABLE ZRA (SERIES 2)**

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**AFFIX TO FRAME**

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1-4,8-11,18,19  AS117456  TRANSIT TIE-DOWN BRACKET ASSEMBLY WITH DEPTH ADJUSTABLE

5-7,12-17  AS117589  1.25" SEATBELT BRACKET AND STOP BOLT DEPTH ADJ

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**PM1032 REV B 7/16/15 JWD**

**Parts Manual**

10-19.5.2
### TRANSIT TIE-DOWN OPTION FOR USE W/ ARMRESTS

**TiLite™ DEPTH ADJUSTABLE ZRA (SERIES 2), DEPTH ADJUSTABLE AERO Z (TITANIUM FRAME)**

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**AFFIX TO FRAME**

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**OBSOLETE**
# TRANSIT TIE-DOWN OPTION

**TiLite™ TWIST**

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**Diagram:**

- **REAR BRACKET**
- **FRONT BRACKET**

**Affix to Frame:**

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**PM0781 REV E 11/9/15 LAA**

10-19.7
TRANSPORT BRACKET OPTION

TiLite™ TWIST

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* NOT SHOWN
## Transit Tie-Down Option

For use with armrests

### TiLite™ Twist

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*Diagram showing front and rear brackets.*

**Note:**
- AFFIX TO FRAME
- REAR BRACKET
- FRONT BRACKET
- TRANSIT TIE-DOWN PACKAGE FOR USE W/ ARMRESTS
## TRANSPORT BRACKET OPTION
### FOR USE W/ ARMRESTS

**TiLite™ TWIST**

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* NOT SHOWN
TRANSIT TIE-DOWN OPTION

TiLite™ Aero X

## Bolt Package for Use with Anti-Tips

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TRANSIT TIE DOWN OPTION INCLUDES:

- Transport Brackets (Shown)
- Reinforced Frame (See Pages 2-13.5.5 and 2-13.5.6)
- Folding Stabilizer Bar (See Pages 10-18.3 and 10-18.5)
- Heavy Duty Caster Mounts (See Page 8-1.7)
- Reinforced Crosstubes (See Page 2-17.9)
TRANSPORT BRACKET OPTION
TiLite™ 2GX, AERO X

ITEM | QTY | PART NO. | DESCRIPTION
--- | --- | --- | ---
1 | 2 | CP104973 | EXTENDED FRONT TRANSPORT BRACKET
2 | 2 | CP102513 | REAR TRANSPORT BRACKET
3 | 2 | CP106262 | CASTER MOUNT
4 | 4 | HD100690 | 1/4-28 X 2" X 3/4" THD HEX CAP SCREW, GRADE 5, ZINC PLATE
5 | 4 | HD100691 | 1/4-28 X 1-3/4" X 3/4" THD HEX CAP SCREW, GRADE 5, ZINC PLATE
6 | 8 | HD100454 | 1/4" SAE FLAT WASHER, BLACK ZINC
7 | 4 | CP104721 | 1/4" FLATHEAD SPACER
8 | 8 | HD100333 | 1/4-28 NYLOCK NUT THIN STYLE, BLACK ZINC
9 | 8 | HD100014 | COVED WASHER 1" OD X 1/4" ID X 1/8" THK
10 | 4 | CP103109 | DECAL - TRANSPORT HOOK
11 | 1 | CP105025 | DECAL - TRANSPORT BRACKET
12 | 1 | DC100892 | TRANSPORT BRACKET FIELD ASSEMBLY GUIDE
13 | 1 | DC100893 | TRANSPORT BRACKET OWNER'S MANUAL SUPPLEMENT
14 | 1 | DC100882 | TRANSPORT BRACKET OPTION PRE-INSTALLATION CHECKLIST
15 | 4 | HD100690 | 1/4-28 X 2" X 3/4" THD HEX CAP SCREW, GRADE 5, ZINC PLATE
16 | 4 | HD100457 | 1/4-28 X 2-3/4" HEX CAP SCREW, GRADE 8, ZINC PLATE
11-11 | | AS112040 | TRANSPORT BRACKET PACKAGE
11-14 | | AS115940-I | TRANSPORT BRACKET OPTION - FIELD INSTALL KIT
15-16 | | AS111951 | TRANSPORT BRACKET BOLT PACK

* NOT SHOWN
## TRANSPORT BRACKET OPTION

**TiLite™ ZRA (SERIES 2), TiLite™ AERO Z (SERIES 2)**

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* NOT SHOWN
TRANSPORT BRACKET OPTION
FOR USE W/ ARMRESTS
TiLite™ ZRA (SERIES 2), TiLite™ AERO Z (SERIES 2)

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*NOT SHOWN*
TRANSPORT BRACKET OPTION

TiLite™ DEPTH ADJUSTABLE ZRA (SERIES 2),
TiLite™ DEPTH ADJUSTABLE AERO Z (SERIES 2)

**NOT SHOWN**

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* * NOT SHOWN
TRANSPORT BRACKET OPTION
FOR USE W/ ARMRESTS

TiLite™ DEPTH ADJUSTABLE ZRA (SERIES 2),
TiLite™ DEPTH ADJUSTABLE AERO Z (SERIES 2)

ITEM    QUANTITY    PART NO.    DESCRIPTION
1        2          CP106960    FRONT TRANSPORT BRACKET
2        2          CP102513    REAR TRANSPORT BRACKET
3        8          HD100618    1/4" LOCK WASHER, BLACK ZINC
4        8          HD100748    1/4-20 X 1/2 BUTTON HEAD CAP SCREW TAMPER-PROOF, BLACK
5        4          HD100647    1/4-28 X 2-3/4" FLAT HEAD CAP SCREW, BLACK ZINC
6        4          HD100489    1/4-28 X 2-1/4" W/1-3/4" SHOULDER BHSCS, BLACK ZINC
7        4          CP108286    COUPLING NUT 1/4-20 X .690"
8        2          HD100394    SPACER
9        4          CP103109    DECAL - TRANSPORT HOOK
10       1          RW100344    TRANSPORT BRACKET DECAL
11       1          HD100700    5/32" TAMPER-PROOF HEX L-KEY, BLACK
*12      1          DC100916    FIELD ASSEMBLY GUIDE: INSTALLING THE TRANSPORT BRACKET OPTION ON THE TILITE AERO Z / ZRA DEPTH ADJUSTABLE
*13      1          DC100894    TRANSPORT BRACKET OWNER'S MANUAL SUPPLEMENT
*14      1          DC100882    TRANSPORT BRACKET OPTION PRE-INSTALLATION CHECKLIST
1-10     1          AS115909    DEPTH ADJ TRANSPORT BRACKET PACKAGE FOR USE W/ ARMRESTS
1-14     1          AS117586-I    TRANSPORT BRACKET OPTION - FIELD INSTALL KIT

* NOT SHOWN
## TRANSIT TIEDOWN OPTION

**W/ TRANSIT SEATBELT BRACKET**

ZRA(SERIES 2), AERO Z(SERIES 2), AERO Z TITANIUM(SERIES 2)

### PART NO. DESCRIPTION

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
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<td>HD100732</td>
<td>STOP BOLT</td>
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<tr>
<td>2</td>
<td>CP107385</td>
<td>1 25&quot; TRANSIT SEATBELT BRACKET</td>
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<tr>
<td>3</td>
<td>HD100718</td>
<td>M8 LOCK NUT, BLACK ZINC</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>HD100717</td>
<td>M8 THIN NUT, BLACK ZINC</td>
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<tr>
<td>5</td>
<td>HD100719</td>
<td>NYLON LAP BELT SPACER</td>
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</tr>
<tr>
<td>6</td>
<td>HD100726</td>
<td>M8 X 35MM BHCS</td>
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</tr>
<tr>
<td>7</td>
<td>HD100490</td>
<td>1/4&quot; AN WASHER 260 I.D .500 O.D .0625 THICK, BLACK ZINC</td>
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</tr>
<tr>
<td>8</td>
<td>HD100333</td>
<td>1/4-28 NYLOCK NUT THIN STYLE, BLACK ZINC</td>
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<td>9</td>
<td>HD100727</td>
<td>1/4-28 X 2-1/4&quot; FLAT HEAD CAP SCREW BLACK ZINC</td>
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<tr>
<td>10</td>
<td>CP102513</td>
<td>TIE DOWN ANCHOR MOUNT</td>
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<tr>
<td>11</td>
<td>CP106960</td>
<td>TRANSPORT BRACKET</td>
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<tr>
<td>12</td>
<td>HD10618</td>
<td>1/4&quot; LOCK WASHER, BLACK ZINC</td>
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</tr>
<tr>
<td>13</td>
<td>CP103109</td>
<td>DECAL - TRANSPORT HOOK</td>
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</tr>
<tr>
<td>14</td>
<td>CP108286</td>
<td>COUPLING NUT 1/4-20 X .690&quot;</td>
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<tr>
<td>15</td>
<td>HD100748</td>
<td>1/4-20 X 1/2 BUTTON HEAD CAP SCREW TAMPER-PROOF, BLACK</td>
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<tr>
<td>16</td>
<td>RW100343</td>
<td>TRANSIT TIE-DOWN NOTIFICATION DECAL</td>
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<td>17</td>
<td>RW100346</td>
<td>TRANSIT TIE-DOWN WARNING BRACKET DECAL</td>
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<td>7,8,10-17</td>
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<tr>
<td>1-6,9</td>
<td>AS117377</td>
<td>1.25&quot; SEATBELT BRACKET AND STOP BOLT</td>
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**WARNING**

This wheelchair COMPLIES with Reson WC19 and ISO 7176:19.

Please refer to the applicable TiLite Owner’s Manual before use.

---

**AFFIX TO FRAME**

**FRONT BRACKET**

**REAR BRACKET**
## TRANSIT TIEDOWN OPTION W/ TRANSIT SEATBELT BRACKET W/ ARMRESTS

**ZRA(SERIES 2), AERO Z(SERIES 2), AERO Z TITANIUM(SERIES 2)**

### REAR BRACKET

### FRONT BRACKET

### ITEM | QTY | PART NO. | DESCRIPTION
--- | --- | --- | ---
1 | 2 | HD100732 | STOP BOLT
2 | 2 | CP107385 | 1.25" TRANSIT SEATBELT BRACKET
3 | 2 | HD100718 | M8 LOCK NUT, BLACK ZINC
4 | 2 | HD100717 | M8 THIN NUT, BLACK ZINC
5 | 2 | HD100719 | NYLON LAP BELT SPACER
6 | 2 | HD100726 | M8 X 35MM BHCS
7 | 4 | HD100490 | 1/4" AN WASHER 260 I.D. .500 O.D. .0625 THICK, BLACK ZINC
8 | 4 | HD100333 | 1/4-28 NYLOCK NUT THIN STYLE, BLACK ZINC
9 | 4 | HD100730 | 1/4-28 X 2-3/4" FLAT HEAD CAP SCREW BLACK ZINC
10 | 2 | CP102513 | TIE DOWN ANCHOR MOUNT
11 | 2 | HD100394 | SPACER
12 | 2 | CP106960 | TRANSPORT BRACKET
13 | 8 | HD100618 | 1/4" LOCK WASHER, BLACK ZINC
14 | 4 | CP103109 | DECAL - TRANSPORT HOOK
15 | 4 | CP108286 | COUPLING NUT 1/4-20 X .690"
16 | 8 | HD100748 | 1/4-20 X 1/2 BUTTON HEAD CAP SCREW TAMPER-PROOF, BLACK
17 | 2 | RW100343 | TRANSIT TIE-DOWN NOTIFICATION DECAL
18 | 1 | RW100345 | TRANSIT TIE-DOWN WARNING BRACKET DECAL
7,8,10-18 | AS117455 | TRANSIT TIE-DOWN BRACKET ASSEMBLY WITH ARMREST
1-6,9 | AS117584 | 1.25" SEATBELT BRACKET AND STOP BOLT W/ ARMREST

---

**WARNING**

Please refer to the applicable TiLite Owner's Manual before use.

---

PM1031 REV B 7/16/15 JWD

Parts Manual

10-19.16
### TRANSIT AND TRANSPORT BRACKET OPTIONS

**TiLite™ 2GX (SERIES 2), AERO X (SERIES 2)**

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<thead>
<tr>
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<td>1/4&quot; SAE FLAT WASHER, BLACK ZINC</td>
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<tr>
<td>3A</td>
<td>8</td>
<td>HD100014</td>
<td>COVED WASHER, 1&quot; OD X 1/4&quot; ID X 1/8&quot;</td>
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<tr>
<td>4A</td>
<td>1</td>
<td>CP107801</td>
<td>TIEDOWN ANCHOR MOUNT WITH BELT, LEFT</td>
</tr>
<tr>
<td>4B</td>
<td>1</td>
<td>CP107802</td>
<td>TIEDOWN ANCHOR MOUNT WITH BELT, RIGHT</td>
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<tr>
<td>5</td>
<td>4</td>
<td>HD100333</td>
<td>1/4-28 NYLOCK JAMNUT, BLACK ZINC</td>
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<tr>
<td>6</td>
<td>4</td>
<td>CP103109</td>
<td>DECAL, TRANSIT HOOK</td>
</tr>
<tr>
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<td>4</td>
<td>HD100332</td>
<td>1/4-20 X 1&quot; SOCKET HEAD CAP SCREW</td>
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<td>8</td>
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<td>4</td>
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<td>1&quot; TIE DOWN BRACKET</td>
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<td>M8 X 35 MM BUTTON HEAD CAP SCREW</td>
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<td>HD100718</td>
<td>M8 LOCK NUT, BLACK ZINC</td>
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<td>1</td>
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<td>TRANSIT TIE-DOWN WARNING BRACKET DECAL</td>
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<td>17</td>
<td>1</td>
<td>RW100344</td>
<td>TRANSPORT BRACKET DECAL</td>
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<tr>
<td>18</td>
<td>2</td>
<td>RW100343</td>
<td>TRANSIT TIE-DOWN NOTIFICATION DECAL</td>
</tr>
<tr>
<td>19</td>
<td>4</td>
<td>HD100757</td>
<td>1/4-28 X 2&quot; SOCKET HEAD CAP SCREW, ZINC PLATE</td>
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<tr>
<td>20</td>
<td>4</td>
<td>HD100758</td>
<td>1/4-28 X 2-3/4&quot; SOCKET HEAD CAP SCREW, ZINC PLATE</td>
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<tr>
<td>1-16,18</td>
<td>AS118573</td>
<td>AERO X (SERIES 2) TRANSIT BRACKET PACKAGE</td>
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<tr>
<td>1-15,17</td>
<td>AS118574</td>
<td>2GX (SERIES 2) / AERO X (SERIES 2) TRANSPORT BRACKET PACKAGE</td>
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<tr>
<td>19-20</td>
<td>AS118581</td>
<td>AERO X (SERIES 2) TRANSIT BRACKET BOLT PACKAGE</td>
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</table>

**BOLT PACKAGE FOR USE WITH ANTI-TIPS**

**AFFIX TO FRAME**

10-19.17

**Parts Manual**
<table>
<thead>
<tr>
<th>ITEM</th>
<th>QUANTITY</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
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<td>8</td>
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<td>1</td>
<td>CP107801</td>
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<tr>
<td>4B</td>
<td>1</td>
<td>CP107802</td>
<td>TIEDOWN ANCHOR MOUNT WITH BELT, RIGHT</td>
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<td>4</td>
<td>HD100333</td>
<td>1/4-28 NYLOCK JAMNUT, BLACK ZINC</td>
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<tr>
<td>6</td>
<td>4</td>
<td>CP103109</td>
<td>DECAL, TRANSIT HOOK</td>
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<tr>
<td>7</td>
<td>4</td>
<td>HD100332</td>
<td>1/4-20 X 1&quot; SOCKET HEAD CAP SCREW</td>
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<td>C-CLAMP</td>
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<td>4</td>
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<td>CP107395</td>
<td>1&quot; TIE DOWN BRACKET</td>
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<td>HD100726</td>
<td>M8 X 35 MM BUTTON HEAD CAP SCREW</td>
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<td>HD100717</td>
<td>M8 THIN NUT, BLACK ZINC</td>
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<td>HD100719</td>
<td>NYLON LAP BELT SPACER</td>
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<tr>
<td>15</td>
<td>2</td>
<td>HD100718</td>
<td>M8 LOCK NUT, BLACK ZINC</td>
</tr>
<tr>
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<td>1</td>
<td>RW100345</td>
<td>TRANSIT TIE-DOWN WARNING BRACKET DECAL</td>
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<td>TRANSPORT BRACKET DECAL</td>
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<td>RW100343</td>
<td>TRANSIT TIE-DOWN NOTIFICATION DECAL</td>
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<td>19</td>
<td>4</td>
<td>HD100757</td>
<td>1/4-28 X 2&quot; SOCKET HEAD CAP SCREW, ZINC PLATE</td>
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<tr>
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<td>HD100758</td>
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<td>1-16,18</td>
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<td>AERO X (SERIES 2) TRANSIT BRACKET PACKAGE</td>
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<td>AS118581</td>
<td>AERO X (SERIES 2) TRANSIT BRACKET BOLT PACKAGE</td>
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</table>

**Notes:**
- The TiLite™ DEPTH ADJUSTABLE 2GX (SERIES 2) and DEPTH ADJUSTABLE AERO X (SERIES 2) are shown in the diagram with their respective parts.
- The diagram includes a warning label for affixing to the frame and a bolt package for use with anti-tips.
# CATCH ALL

TiLite™ ZR, ZRA, TR(SERIES 2), YR(SERIES 2), AERO Z, Z10, ZR (SERIES 2), ZRA (SERIES 2), AERO Z (SERIES 2), TR (SERIES 3), AERO T, TRA (SERIES 2)

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<td>1B</td>
<td>1</td>
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<td>1C</td>
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<td>CP103642</td>
<td>CATCH ALL, LARGE (18&quot;-20&quot; WIDTH)</td>
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[Diagram of CATCH ALL]

PM0432 REV H 10/23/13 LAA

Parts Manual
### CRUTCH HOLDER

**TiLite™ ZR, ZRA, Aero Z, Aero R, TR (SERIES 2), YR (SERIES 2), TR, YR, ZR (SERIES 2), ZRA (SERIES 2), AERO Z (SERIES 2), TWIST, TR (SERIES 3), AERO T, TRA (SERIES 2)**

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<td>CRUTCH HOLDER CUP</td>
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<td>2A</td>
<td>1</td>
<td>CP103770</td>
<td>CRUTCH HOLDER BENT TUBE</td>
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<tr>
<td>2B</td>
<td>1</td>
<td>CP105216</td>
<td>CRUTCH HOLDER BENT TUBE PED (FOR TWIST AND DEPTH ADJ)</td>
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<td>1</td>
<td>CP102280</td>
<td>CAMBER CLAMP</td>
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<td>2 OR 4</td>
<td>HD100154</td>
<td>RIVNUT, 10-32 X .130 - .225 GRIP RANGE</td>
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<td>1</td>
<td>HD100127</td>
<td>END CAP 3/4&quot; X .083 WALL TUBING</td>
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<td>6</td>
<td>2</td>
<td>HD100289</td>
<td>#10 AN WASHER LIGHT SERIES</td>
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<td>7B</td>
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<td>HD100071</td>
<td>10-32 X 3/4&quot; BUTTON HEAD CAP SCREW, CLEAR ZINC PLATED</td>
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<td>1/4-28 NYLOCK NUT THIN STYLE, BLACK ZINC PLATE</td>
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<td>RW100021</td>
<td>2&quot; HOOK VELCRO ADHESIVE BACKED, BLACK</td>
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<td>CP103771</td>
<td>CRUTCH HOLDER VELCRO STRAP FOR RIGID CHAIR</td>
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<td>1,2A-12</td>
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<td>CRUTCH HOLDER FOR RIGID CHAIR</td>
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<td>CRUTCH HOLDER FOR DEPTH ADJ CHAIR (FOR TWIST AND DEPTH ADJ)</td>
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CRUTCH HOLDER

TiLite™ X, SX, TX, 2GX, Aero X, YG, YGS, Aero X (SERIES 2), 2GX (SERIES 2)

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<td>WHEEL LOCK CLAMP 1” TO 3/4”</td>
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<td>END CAP 3/4” X .083 WALL TUBING</td>
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<td>2</td>
<td>HD100289</td>
<td>#10 AN WASHER LIGHT SERIES</td>
</tr>
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<td>10</td>
<td>HD100071</td>
<td>10-32 X 3/4” BUTTON HEAD CAP SCREW, CLEAR ZINC PLATED</td>
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<td>EXTENDED WHEELLOCK CLAMP FOR Ø1.00</td>
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<td>RW100021</td>
<td>2” HOOK VELCRO ADHESIVE BACKED, BLACK</td>
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<td>AS110366</td>
<td>CRUTCH HOLDER STRAP FOR FOLDING STABILIZER BAR</td>
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* ITEM 10 MAY BE USED TO PROVIDE CLEARANCE FOR ACCESSORIES INSTALLED ON CHAIR FRAME
**UPPER EXTREMITY SUPPORT TRAY**

ALL TiLite™ CHAIRS

<table>
<thead>
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<th>QUANTITY</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
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<tr>
<td>1A</td>
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<td>CP105262</td>
<td>UPPER EXTREMITY SUPPORT TRAY, 12&quot;-14&quot; SEAT WIDTHS</td>
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<tr>
<td>1B</td>
<td>1</td>
<td>CP105263</td>
<td>UPPER EXTREMITY SUPPORT TRAY, 13&quot;-15&quot; SEAT WIDTHS</td>
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</table>

### TABLE ONE - TRAY DIMENSIONS

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DIM &quot;A&quot;</th>
<th>DIM &quot;B&quot;</th>
<th>DIM &quot;C&quot;</th>
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<td>18.25&quot;</td>
<td>19.25&quot;</td>
<td>6&quot;</td>
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<td>CP105263</td>
<td>20.25&quot;</td>
<td>20.25&quot;</td>
<td>7&quot;</td>
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<tr>
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<td>QTY</td>
<td>PART NO.</td>
<td>DESCRIPTION</td>
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<tr>
<td>1</td>
<td>1</td>
<td>CP104895</td>
<td>SAE HEX KEY SET</td>
</tr>
</tbody>
</table>

9 PIECE SAE HEX KEY SET
5/64", 3/32", 7/64", 1/8"
9/64", 5/32", 3/16", 7/32", 1/4"