

# KINVARO

## F-20 folding flap fitting



- Holds flap securely in any position
- Extremely smooth movement
- Adjustable spring force
- Integrated adjustable closing damper
- Flap with 3-dimensional adjustment – height, side, angle: direct adjustment  $\pm 1.5$  mm
- 3-dimensional reveal height, side, depth adjustment: Direct adjustment
- Opening limiter adjustable to  $90^\circ$
- Wide range of applications for many different flap materials
- Fast, tool-free clip fitting of the front
- Pre-assembled Euro screws and positioning pins for easy mounting of the fitting on the side wall
- High stability
- Weight 3.8 to 19.2 kg
- Range of flaps:  
Width: 400–1200 mm  
Height: 520–900 mm
- Cover caps in grey, similar to RAL 7045



### APPLICATION RANGE

| Cabinet height | Guide lever | Flap weight incl. handle (kg) |          |           |
|----------------|-------------|-------------------------------|----------|-----------|
|                |             | Spring B                      | Spring C | Spring D  |
| 520–559        | Type 2      | 4.6–13.8                      | –        | –         |
| 560–599        | Type 3      | 4.4–12.6                      | 7.0–14.7 | –         |
| 600–649        | Type 4      | 4.1–12.1                      | 6.8–15.8 | –         |
| 650–699        | Type 5      | 3.8–11.4                      | 6.7–16.9 | –         |
| 700–749        | Type 6      | –                             | 6.5–16.4 | 10.0–18.0 |
| 750–799        | Type 7      | –                             | 6.0–15.6 | 8.6–19.2  |
| 800–849        | Type 7      | –                             | –        | 7.8–18.0  |
| 850–900        | Type 7      | –                             | –        | 6.5–16.5  |

### ORDER INFORMATION

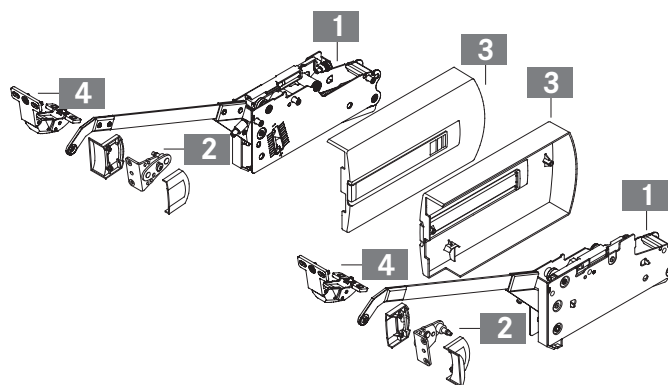
| Kinvaro F-20 set |  |  |  |                   |                   |                   |
|------------------|--|--|--|-------------------|-------------------|-------------------|
| Cabinet height   |  |  |  | Cover cap, grey   |                   |                   |
|                  |  |  |  | Spring B          | Spring C          | Spring D          |
| 520–559          |  |  |  | <b>F152145237</b> | –                 | –                 |
| 560–599          |  |  |  | <b>F152145238</b> | <b>F152145239</b> | –                 |
| 600–649          |  |  |  | <b>F152145240</b> | <b>F152145241</b> | –                 |
| 650–699          |  |  |  | <b>F152145242</b> | <b>F152145243</b> | –                 |
| 700–749          |  |  |  | –                 | <b>F152145244</b> | <b>F152145245</b> |
| 750–900          |  |  |  | –                 | <b>F152145246</b> | <b>F152145247</b> |

#### Note:

Tiomos  $120^\circ$  hinges with spring, without damper, and Tiomos mounting plates for top panel must be ordered separately.

**Kinvaro F-20 set** comprises:

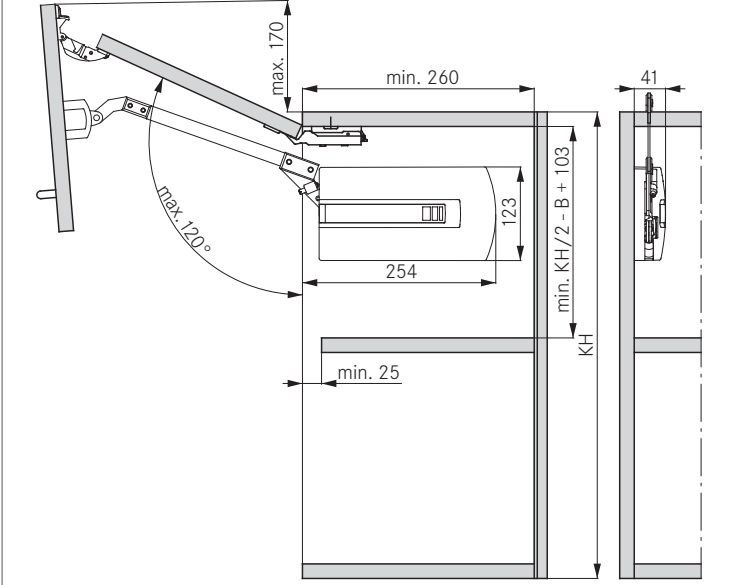
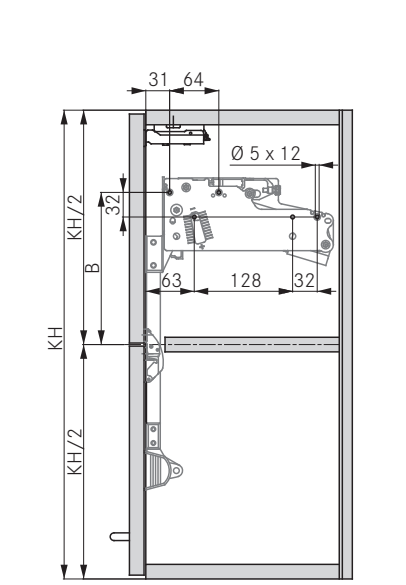
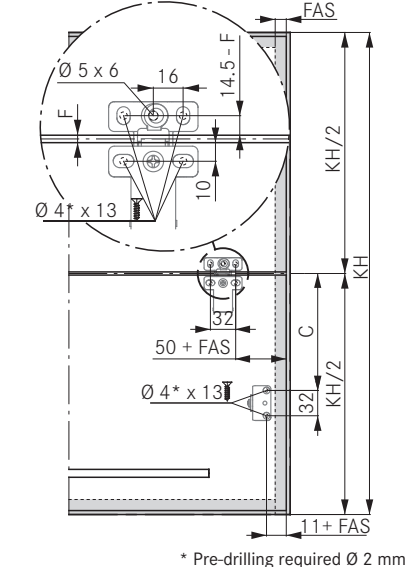
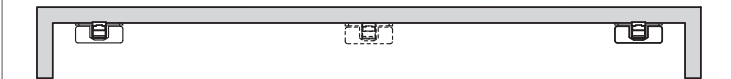
- 1 Fitting, right and left (1x)
  - 2 Screw-on bracket for wood, incl. cover caps (2x)
  - 3 Cover caps, right and left (1x)
  - 4 Link hinges (2x)
- Paper template (1x)  
Installation instructions (1x)



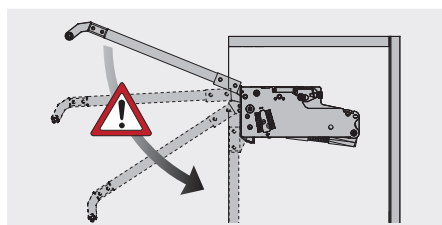
|                                 |     |  |  |  |  |
|---------------------------------|-----|--|--|--|--|
| Kinvaro F-20 adjustment options | 284 |  |  |  |  |
| Assembly aids                   | 656 |  |  |  |  |

ASSEMBLY AND INSTALLATION INSTRUCTIONS FOR CABINET HEIGHT 520-799

All dimensions in millimetres

| Required space  | Side wall drilling positions  | Side wall drilling distance   |    |      |   |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |
|---|---|---|----|------|---|---------|---|-----|---------|---|-----|---------|---|-----|---------|---|-----|---------|---|-----|---------|---|-----|---------|---|-----|---------|---|-----|---------|---|-----|---------|---|-----|---------|---|-----|---------|---|-----|---------|---|-----|---------|---|-----|---------|---|-----|---------|---|-----|
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| KH  | Type  | B   |    |      |   |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |
| 520-529   | 2   | 173   |    |      |   |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |
| 530-539   | 2   | 158   |    |      |   |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |
| 540-549   | 2   | 143   |    |      |   |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |
| 550-559   | 2   | 128   |    |      |   |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |
| 560-569   | 3   | 183   |    |      |   |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |
| 570-579   | 3   | 168   |    |      |   |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |
| 580-589   | 3   | 153   |    |      |   |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |
| 590-599   | 3   | 138   |    |      |   |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |
| 600-609   | 4   | 208   |    |      |   |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |
| 610-619   | 4   | 198   |    |      |   |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |
| 620-629   | 4   | 178   |    |      |   |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |
| 630-639   | 4   | 168   |    |      |   |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |
| 640-649   | 4   | 158   |    |      |   |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |
| 650-699   | 5   | 225   |    |      |   |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |
| 700-749   | 6   | 235   |    |      |   |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |
| 750-799   | 7   | 250   |    |      |   |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |
|   | <p>Front installation for wooden and frame flaps (min. 45 mm width)</p>   | <p>Front drilling distance</p>  |    |      |   |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |
|   |  <p>* Pre-drilling required Ø 2 mm</p>                    | <table border="1"> <thead> <tr> <th>KH</th> <th>Type</th> <th>C</th> </tr> </thead> <tbody> <tr><td>520-529</td><td>2</td><td>133</td></tr> <tr><td>530-539</td><td>2</td><td>148</td></tr> <tr><td>540-549</td><td>2</td><td>163</td></tr> <tr><td>550-559</td><td>2</td><td>178</td></tr> <tr><td>560-569</td><td>3</td><td>145</td></tr> <tr><td>570-579</td><td>3</td><td>160</td></tr> <tr><td>580-589</td><td>3</td><td>175</td></tr> <tr><td>590-599</td><td>3</td><td>190</td></tr> <tr><td>600-609</td><td>4</td><td>138</td></tr> <tr><td>610-619</td><td>4</td><td>148</td></tr> <tr><td>620-629</td><td>4</td><td>168</td></tr> <tr><td>630-639</td><td>4</td><td>178</td></tr> <tr><td>640-649</td><td>4</td><td>188</td></tr> <tr><td>650-699</td><td>5</td><td>146</td></tr> <tr><td>700-749</td><td>6</td><td>156</td></tr> <tr><td>750-799</td><td>7</td><td>166</td></tr> </tbody> </table> | KH | Type | C | 520-529 | 2 | 133 | 530-539 | 2 | 148 | 540-549 | 2 | 163 | 550-559 | 2 | 178 | 560-569 | 3 | 145 | 570-579 | 3 | 160 | 580-589 | 3 | 175 | 590-599 | 3 | 190 | 600-609 | 4 | 138 | 610-619 | 4 | 148 | 620-629 | 4 | 168 | 630-639 | 4 | 178 | 640-649 | 4 | 188 | 650-699 | 5 | 146 | 700-749 | 6 | 156 | 750-799 | 7 | 166 |
| KH  | Type  | C   |    |      |   |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |
| 520-529   | 2   | 133   |    |      |   |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |
| 530-539   | 2   | 148   |    |      |   |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |
| 540-549   | 2   | 163   |    |      |   |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |
| 550-559   | 2   | 178   |    |      |   |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |
| 560-569   | 3   | 145   |    |      |   |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |
| 570-579   | 3   | 160   |    |      |   |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |
| 580-589   | 3   | 175   |    |      |   |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |
| 590-599   | 3   | 190   |    |      |   |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |
| 600-609   | 4   | 138   |    |      |   |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |
| 610-619   | 4   | 148   |    |      |   |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |
| 620-629   | 4   | 168   |    |      |   |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |
| 630-639   | 4   | 178   |    |      |   |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |
| 640-649   | 4   | 188   |    |      |   |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |
| 650-699   | 5   | 146   |    |      |   |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |
| 700-749   | 6   | 156   |    |      |   |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |
| 750-799   | 7   | 166   |    |      |   |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |
|    | <p><b>Number of hinges on top panel</b><br/>From 900 mm cabinet width: 3 hinges. Hinges with spring require an opening angle of min. 120°</p> |   |    |      |   |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |
| <p><b>Calculation of flap weight</b><br/>           Flap width x flap height x flap thickness x density <sup>1</sup> + weight of handle <sup>2</sup> = weight of flap<br/> <sup>1</sup> Densities: MDF board 0.85 kg/dm<sup>3</sup>, chipboard 0.65 kg/dm<sup>3</sup>, spruce/pine 0.45 kg/dm<sup>3</sup><br/> <sup>2</sup> For bar handles, allow 0.1 kg per 100 mm of handle length. We recommend a trial fitting</p> |   |   |    |      |   |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |         |   |     |

WARNING



**Important!**  
**Caution – risk of injury!**  
**Fitting is spring-tensioned!**

LEGEND

- B Side wall drilling dimension
- C Front drilling dimension
- F Reveal
- FAS Front overlay, side
- KH Cabinet height



# KINVARO

## F-20 folding flap fitting

### ASSEMBLY AND INSTALLATION INSTRUCTIONS FOR CABINET HEIGHT 800-900

All dimensions in millimetres

| Required space  | Side wall drilling positions  | Side wall drilling distance   |    |      |   |         |   |     |         |   |     |                |  |    |   |         |      |         |      |
|---|---|---|----|------|---|---------|---|-----|---------|---|-----|----------------|--|----|---|---------|------|---------|------|
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| KH  | Type  | B   |    |      |   |         |   |     |         |   |     |                |  |    |   |         |      |         |      |
| 800-849   | 7   | 103   |    |      |   |         |   |     |         |   |     |                |  |    |   |         |      |         |      |
| 850-900   | 7   | 110   |    |      |   |         |   |     |         |   |     |                |  |    |   |         |      |         |      |
| Shelf distance  |   |   |    |      |   |         |   |     |         |   |     |                |  |    |   |         |      |         |      |
| KH  | D   |   |    |      |   |         |   |     |         |   |     |                |  |    |   |         |      |         |      |
| 800-849   | ≤293  |   |    |      |   |         |   |     |         |   |     |                |  |    |   |         |      |         |      |
| 850-900   | ≤312  |   |    |      |   |         |   |     |         |   |     |                |  |    |   |         |      |         |      |
| <p>Front installation for flaps with standard aluminium frame profiles (19 mm)</p>  | <p>Front installation for wooden and frame flaps (min. 45 mm width)</p>   | <p>Front drilling distance</p>  |    |      |   |         |   |     |         |   |     |                |  |    |   |         |      |         |      |
|   |   | <table border="1"> <thead> <tr> <th>KH</th> <th>Type</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>800-900</td> <td>7</td> <td>304</td> </tr> </tbody> </table>   | KH | Type | C | 800-900 | 7 | 304 |         |   |     |                |  |    |   |         |      |         |      |
| KH  | Type  | C   |    |      |   |         |   |     |         |   |     |                |  |    |   |         |      |         |      |
| 800-900   | 7   | 304   |    |      |   |         |   |     |         |   |     |                |  |    |   |         |      |         |      |
|   | <p><b>Number of hinges on top panel</b><br/>From 900 mm cabinet width: 3 hinges. Hinges with spring require an opening angle of min. 120°</p> |   |    |      |   |         |   |     |         |   |     |                |  |    |   |         |      |         |      |
| <p><b>Calculation of flap weight</b><br/>           Flap width x flap height x flap thickness x density <sup>1</sup> + weight of handle <sup>2</sup> = weight of flap<br/> <sup>1</sup> Densities: MDF board 0.85 kg/dm<sup>3</sup>, chipboard 0.65 kg/dm<sup>3</sup>, spruce/pine 0.45 kg/dm<sup>3</sup><br/> <sup>2</sup> For bar handles, allow 0.1 kg per 100 mm of handle length. We recommend a trial fitting</p> |   |   |    |      |   |         |   |     |         |   |     |                |  |    |   |         |      |         |      |

|                                 |     |
|---------------------------------|-----|
| Kinvaro F-20 adjustment options | 284 |
| Assembly aids                   | 656 |