

EMBRAER 120



Fuel System

GENERAL DESCRIPTION

The fuel system supplies fuel at flow and pressure rates as required for the engine and APU operation. The fuel is contained in wing tanks.

Each wing has two independent integral tanks, namely the outboard tank and the inboard tank, which are separated by the main landing gear wheelwell and interconnected by tubes for gravity fuel transfer. The inboard tank has a subdivision named collector tank, which is located in the lowest region of the inboard tank and houses the fuel pumps.

CAPACITY

The following figures represent the amount of usable and unusable fuel:

Usable Fuel (each wing)

| Gallons/Pounds* | Liters/Kilograms** |
|-----------------|--------------------|
| 441/2955 | 1670/1340 |

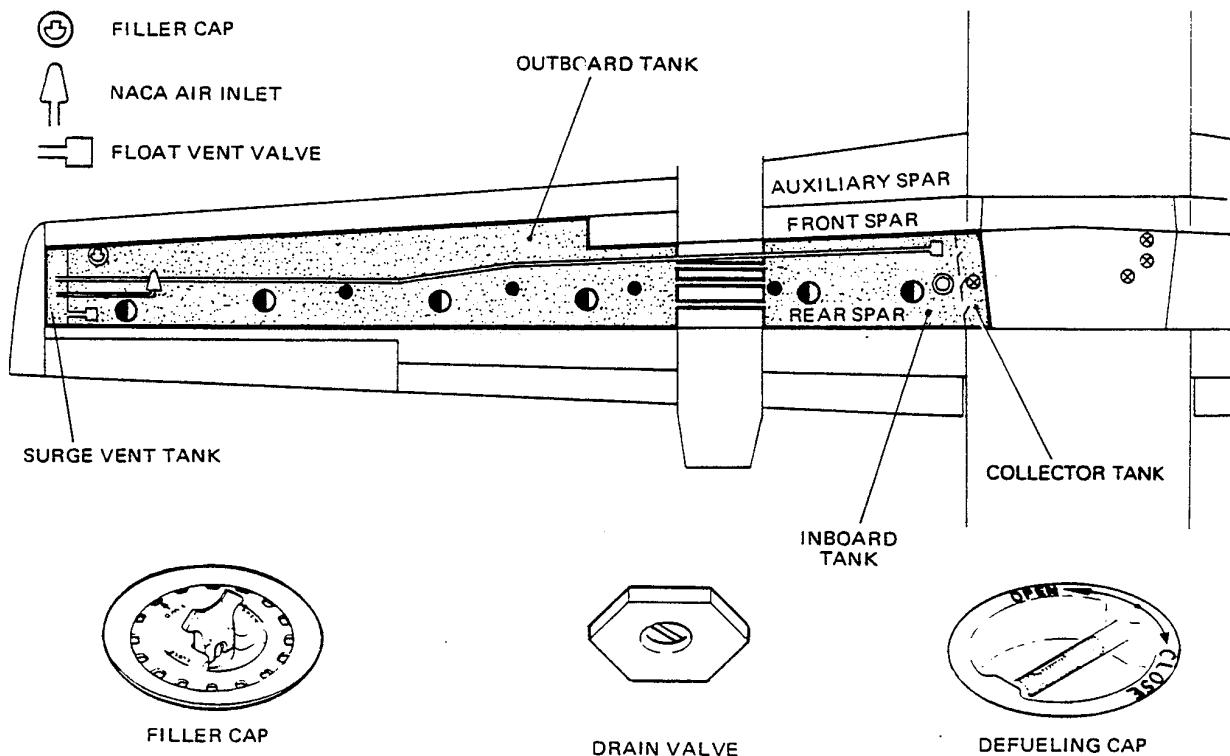
Unusable Fuel (each wing)

| Gallons/Pounds* | Liters/Kilograms** |
|-----------------|--------------------|
| 3.7/24.8 | 14/11.2 |

* Fuel density = 6.7 pound per gallon.

** Fuel density = 0.8029 kilograms per liter.

- FUEL QUANTITY TRANSMITTER UNITS
- DIRECT QUANTITY MEASURING STICK
- ⊗ DRAIN VALVE
- DUMP VALVE
- ⊕ FILLER CAP
- ↑ NACA AIR INLET
- ↔ FLOAT VENT VALVE



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FUEL FEED SYSTEM

FUEL PUMPS

Each fuel tank has a main jet fuel pump and two electric fuel booster pumps installed in the collector tank. They are responsible for feeding fuel to the engine and APU. In addition, each tank has two scavenger pumps located in the inboard tank which are responsible for supplying fuel to the collector tank.

The main jet pump is capable of supplying the required fuel to the engine and APU, except during start, crossfeed operation, or when the APU is on and the right engine is inoperative.

The electric booster pumps are identified as FRONT and REAR on the fuel panel.

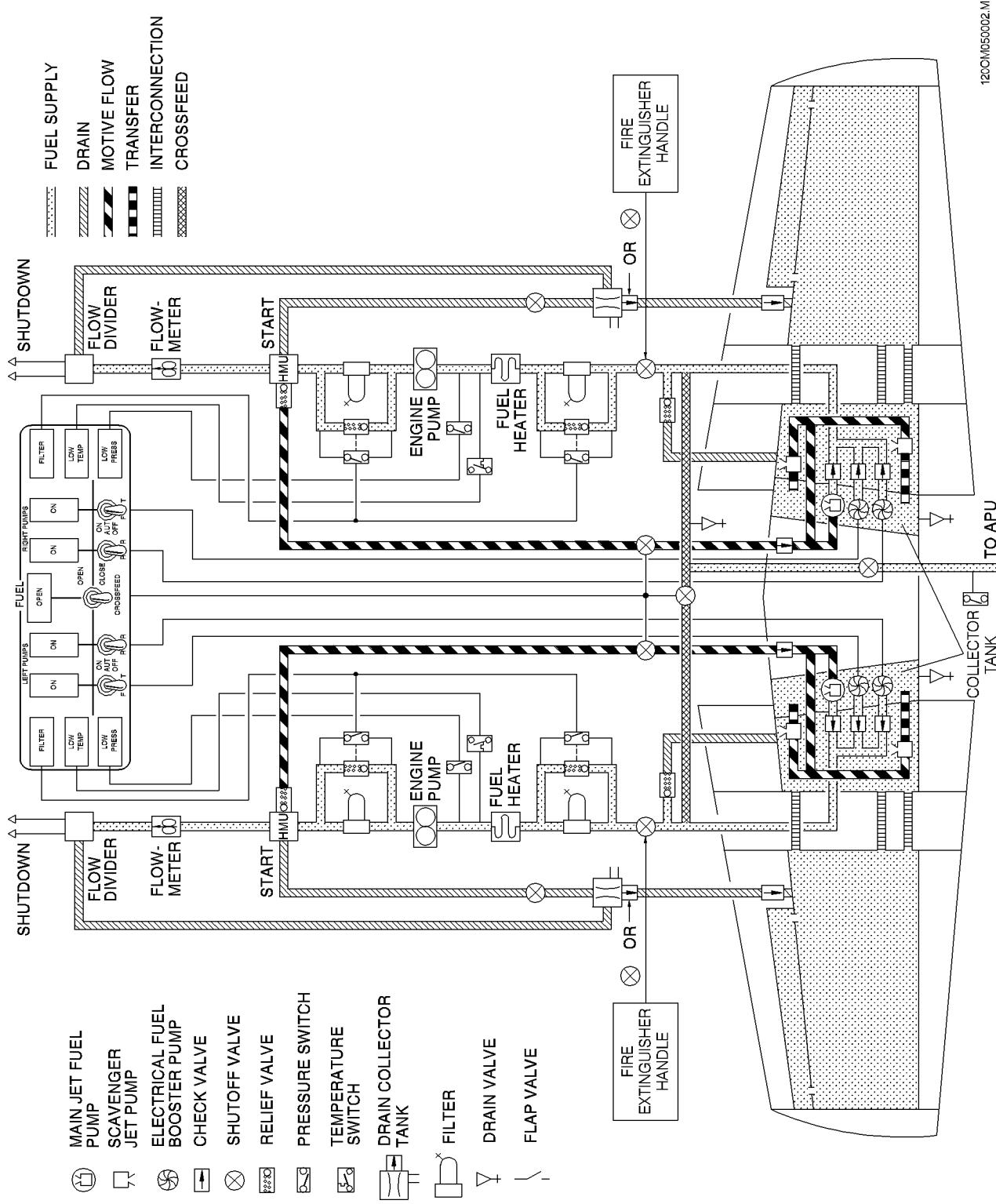
FIREWALL SHUTOFF VALVE

The firewall shutoff valve is commanded through the corresponding fire-extinguishing handle. When actuated, it cuts fuel supply to the associated engine.

FUEL CROSSFEED SHUTOFF VALVE

The engine fuel manifolds are interconnected with the use of the crossfeed valve. The valve provides a means of directing fuel to both engines from any tank.

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ENGINE No. 2 PUMPS ON LIGHTS (WHITE)

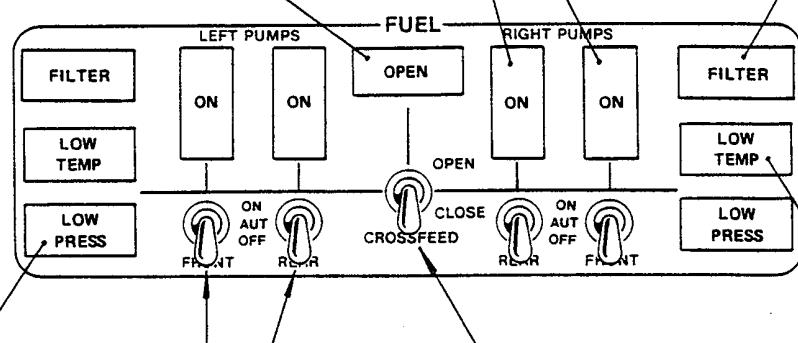
ILLUMINATED - If the relevant pump is on.

CROSSFEED OPEN LIGHT (WHITE)

ILLUMINATED - When crossfeed valve reaches a fully open position.
 Redundant with white CROSSFEED OPEN light on the fuel management panel.

ENGINE No. 2 FILTER LIGHT (AMBER)

ILLUMINATED - Before the fuel contamination reaches a degree sufficient to open the filter bypass. Redundant with amber FUEL light on the multiple alarm panel.



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ENGINE No. 1 LOW PRESSURE LIGHT (AMBER)

ILLUMINATED - Indicates low fuel pressure.
 Redundant with amber FUEL light on the multiple alarm panel.

ENGINE No. 2 LOW TEMP LIGHT (AMBER)

ILLUMINATED - Indicates a low fuel temperature. Redundant with amber FUEL light on the multiple alarm panel.

ENGINE No. 1 FRONT AND REAR ELECTRIC FUEL BOOSTER PUMP SWITCHES

On - Turns on the relevant electric pump.
 AUT - In case of fuel low pressure the electric pump and the relevant light will cycle. Then, the switch must be positioned to ON.
 OFF - Turns off the relevant electric pump.

CROSSFEED SWITCH

OPEN - The crossfeed valve opens, performing crossfeed operation.

NOTE

Cross-feed operation will be performed by using the electric booster pump of the tank intended to be used.

**FUEL FEED PANEL
(OVERHEAD PANEL)**

PRESSURE REFUELING/DEFUELING

Pressure refueling and defueling are accomplished at the fueling panel, located on the right wing underside.

Refueling operation may be accomplished with the airplane either energized or not. When the airplane is energized, the system operation will be enabled:

- By selecting the MAN position of the REFUELING MASTER switch and the OPEN position of the SHUTOFF VALVE switch or;
- By selecting the AUTO position of the REFUELING MASTER switch and by setting the bug of the quantity indicators.

CAUTION: PRESSURE REFUELING WITH THE AIRPLANE BUSES DEENERGIZED IS NOT RECOMMENDED, SINCE NO INDICATION WILL BE AVAILABLE ON THE FUELING PANEL. IN THE EVENT OF ANY VENT VALVE FAILURE IN THE CLOSED POSITION, STRUCTURAL DAMAGE TO THE WING MAY OCCUR.

The defueling is performed by using the same adapter as used in the refueling system. Fuel tanks are defueled by means of the electric booster pumps via electrically-operated defuel valves which are controlled from the fueling panel. Suction pressure, from a ground equipment, up to 0.5 psig, may be applied to the adapter to increase the defueling flow rate.

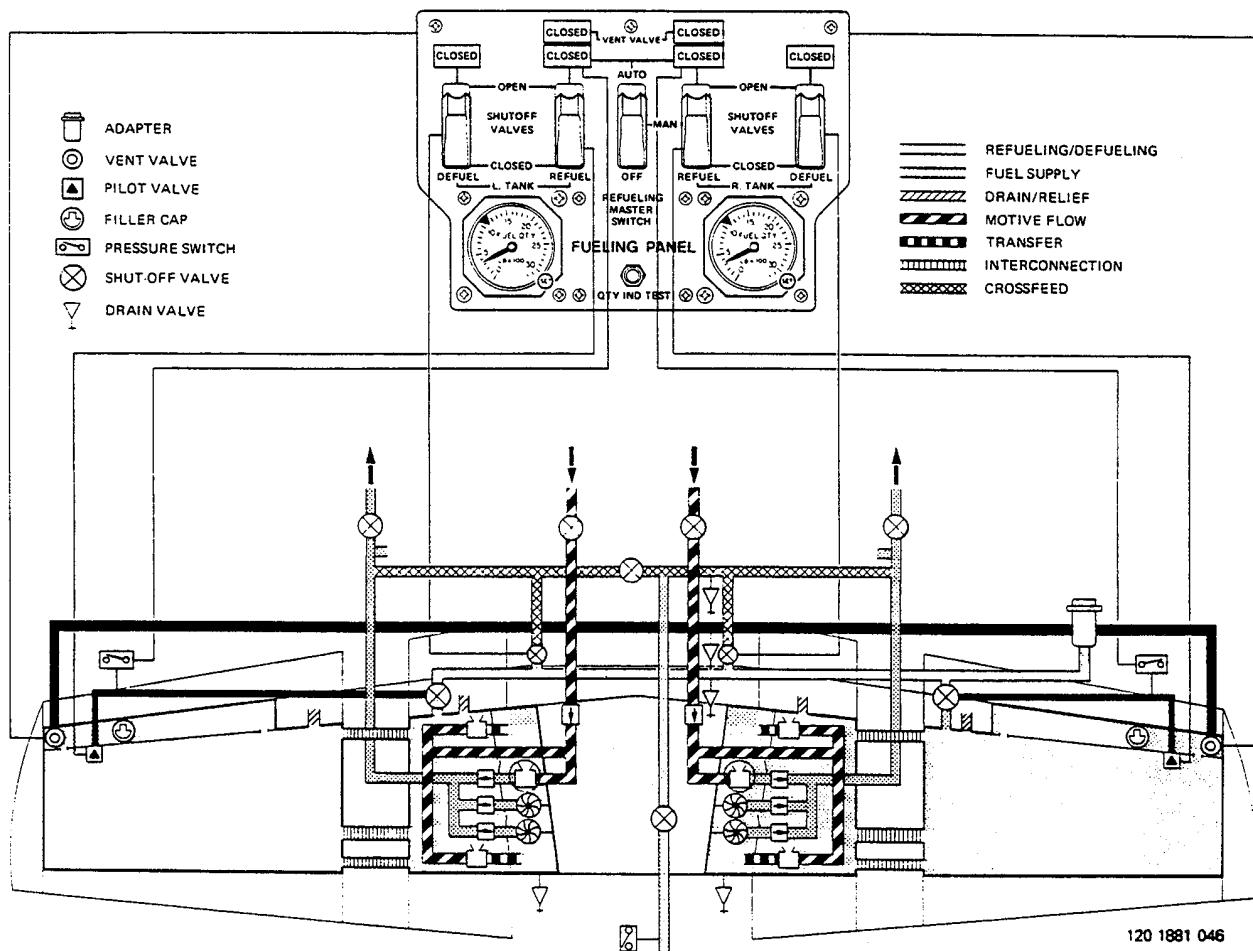
For detailed defueling instructions, see Maintenance Manual.

GRAVITY REFUELING/DEFUELING

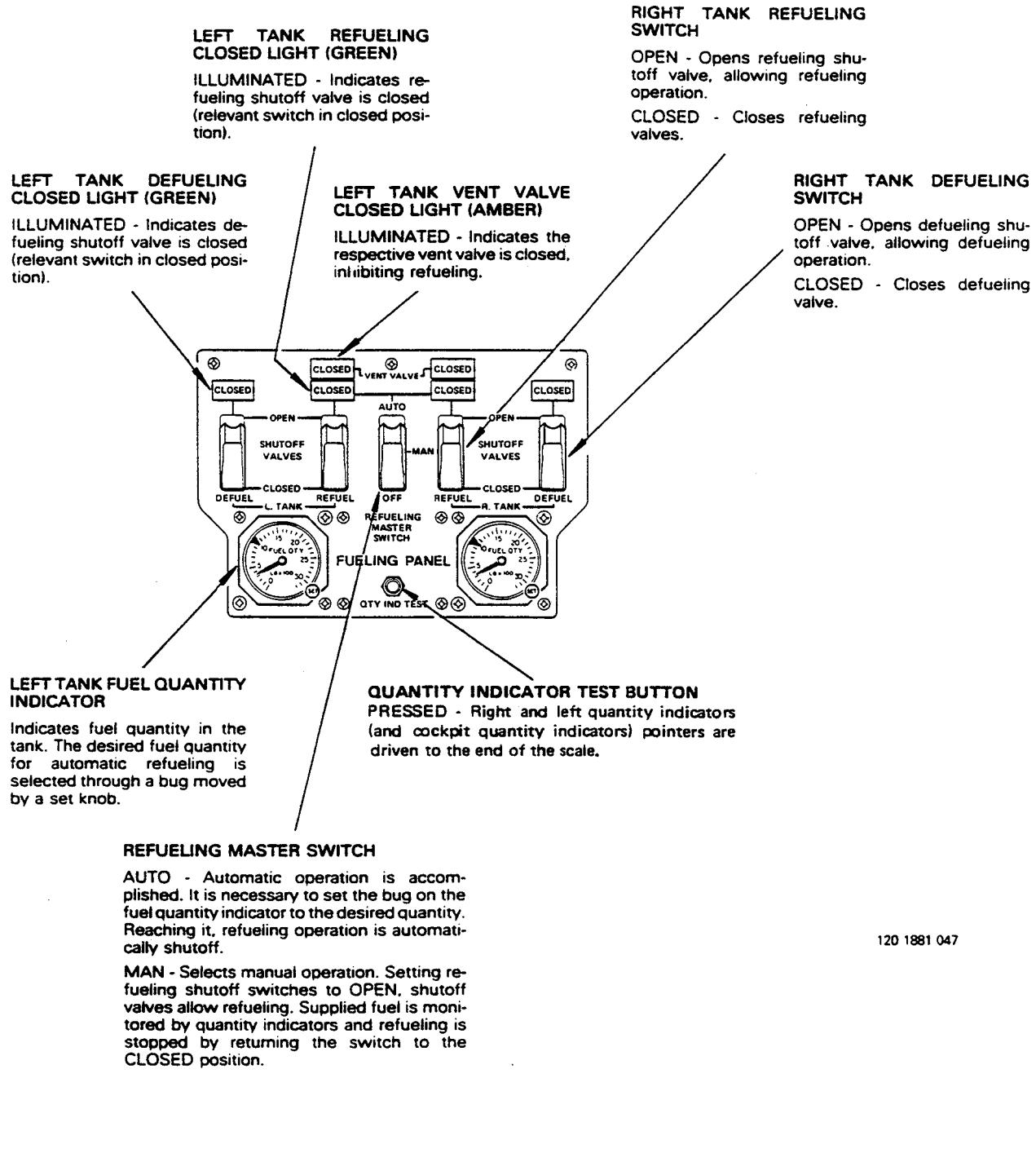
Gravity refueling is accomplished through a filler cap at the wing upper surface.

Manual defueling is accomplished through a dump valve installed on the lower surface of each inboard tank.

(FUELING PANEL)



REFUELING/DEFUELING SYSTEM SCHEMATIC



FUELING PANEL
(RIGHT UNDERWING)

FUEL MANAGEMENT PANEL

FUEL TOTALIZER

Provides either total fuel used or fuel remaining indications. The desired function is obtained by pressing the FCTN button. The alphanumeric display will alternate between FU (fuel used) or FR (fuel remaining) each time the button is pressed. The corresponding quantity is shown on the numeric display (the last digit is fixed at zero).

To reset the total fuel used, FU function must be selected and, while the alpha display shows FU, the fuel used register can be reset to zero by pulling the PULL TO SET knob. This knob must be held pulled out for at least three seconds.

When the alpha display is in FR, the fuel remaining register can be initialized by pulling the PULL TO SET knob. The initial value is set equal to the total fuel quantity instrument indication. The knob must be held at least three seconds.

Manual fuel remaining reading adjustment can be accomplished by rotating the PULL TO SET knob from its mid position. Clockwise rotation will increase the value and counterclockwise rotation will decrease the value. The display change rate is determined by how far the knob is rotated.

To prevent improper readings due to power transients or memory error, a check-sum test is constantly made. If an error is detected, the display will show ER. In order to reset the error condition, the FCTN button must be pressed. Alpha display will show then FR, and the numeric display will show "0000". After an error is reset, the system must be initialized again to show proper reading. Alpha and numeric indication is blank for power or signal loss.

ENGINE No. 1 AND No. 2 FUEL FLOW INDICATORS

Analogically and digitally indicate the fuel flow mass, in pounds (or kilograms) per hour. The left fuel flow indicator is connected to DC bus 1 and the right fuel flow to DC bus 2. If a DC bus fails, the respective fuel flow indicator will be inoperative.

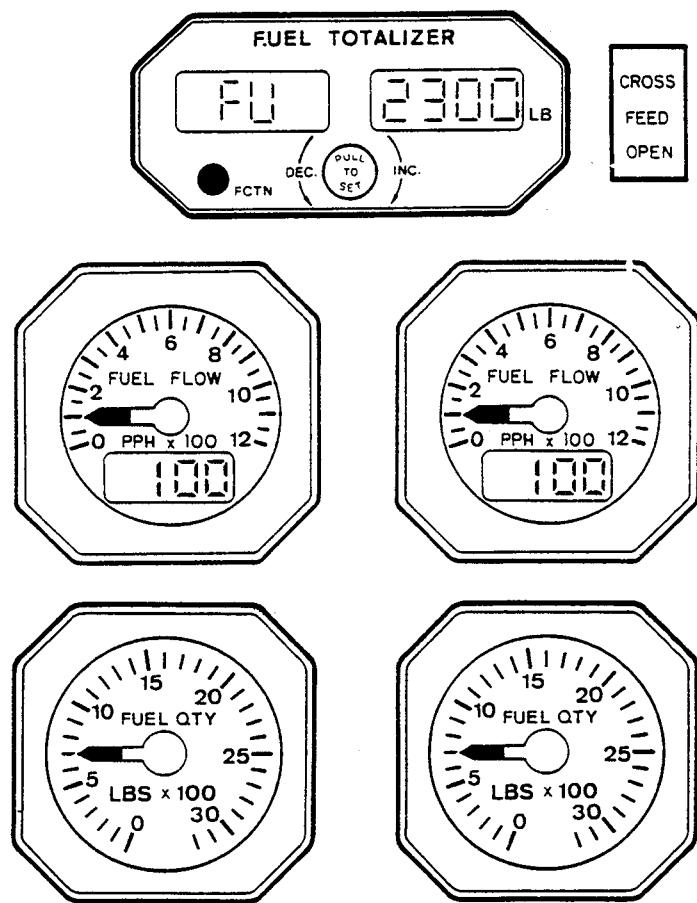
LEFT AND RIGHT TANK FUEL QUANTITY INDICATORS

Indicate the remaining usable fuel quantity in the tank. Pressing the test button in the refueling/defueling panel will cause the cockpit fuel quantity indicators to rotate clockwise to full scale.

The left fuel quantity indicator is connected to DC bus 1 and the right fuel quantity is connected to DC bus 2. In the case of a DC bus failure, the fuel quantity indicator will be inoperative.

CROSS FEED OPEN INDICATOR LIGHT

The CROSS FEED OPEN white light on the fuel management panel, and the white OPEN light, on the fuel feed panel, indicate when the crossfeed valve is fully open.



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NOTE: SOME AIRPLANES ARE EQUIPPED WITH FUEL INSTRUMENTS IN KILOGRAMS.

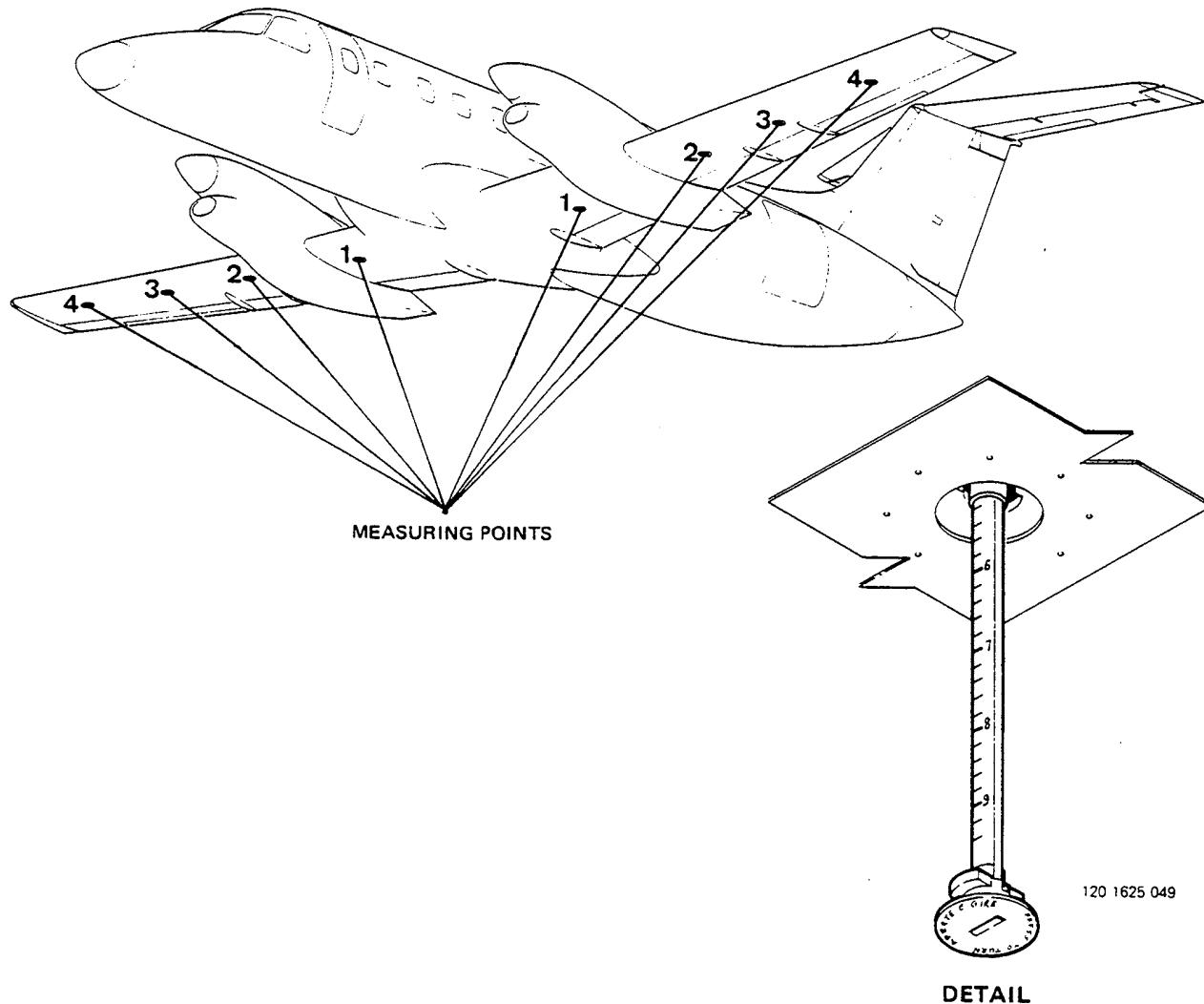
FUEL MANAGEMENT PANEL (FORWARD PANEL)

DIRECT QUANTITY MEASURING SYSTEM (DRIPLESS STICK)

The aircraft is equipped with a direct quantity measuring system, comprising four measuring points located under the wing. Each measuring point is provided with a magnetic float, which holds a calibrated stick. When it reaches the fuel level, the stick provides a visual check of the fuel quantity in each wing.

To determine the usable fuel quantity in one of the wings, it is advisable to start at point No. 4 (wing tip) and proceed in the direction of the wing root until reaching the most outboard point which is not at the lower stop (zero reading). For a correct reading, press and turn the stick, allowing it to lower smoothly until the stick is held by the magnetic float. Next, enter the value indicated on the scale in the Direct Measuring System Table. Two sets of tables are presented: one in US Gallon and pound, and the other in liter and kilogram.

Fuel quantity readings should be performed with the aircraft laterally leveled, as checked through the ADI inclinometer.



DIRECT MEASURING SYSTEM TABLE – (Roll: 0°; Pitch: 0° + 2°) – 2°)

NOTE: The accuracy for U.S. readings is ± 2.6 U.S. Gal.

The values in pounds are valid for fuel densities between 6.68 and 6.84 lb/U.S. Gal. In this case the reading accuracy is ± 44 lb. For fuel densities out of this range, multiply the volume in U.S. Gal by the actual fuel density to find the mass in pounds.

| STICK INDICATION | STICK FUEL QUANTITY (USABLE) | | | | | | | |
|---------------------|------------------------------|-------|---------|-------|---------|-------|---------|-------|
| | STICK 1 | | STICK 2 | | STICK 3 | | STICK 4 | |
| | US Gal | pound | US Gal | pound | US Gal | pound | US Gal | pound |
| 0.1 | 62. | 418. | 133. | 904. | 191. | 1296. | 257. | 1738. |
| 0.2 | 63. | 425. | 135. | 911. | 193. | 1305. | 258. | 1747. |
| 0.3 | 64. | 433. | 136. | 918. | 194. | 1314. | 259. | 1757. |
| 0.4 | 65. | 440. | 137. | 925. | 195. | 1323. | 261. | 1766. |
| 0.5 | 66. | 448. | 138. | 932. | 197. | 1332. | 262. | 1775. |
| 0.6 | 67. | 455. | 139. | 940. | 198. | 1340. | 263. | 1784. |
| 0.7 | 68. | 462. | 140. | 947. | 199. | 1349. | 265. | 1794. |
| 0.8 | 69. | 470. | 141. | 954. | 200. | 1358. | 266. | 1803. |
| 0.9 | 70. | 477. | 142. | 961. | 202. | 1367. | 267. | 1812. |
| 1.0 | 72. | 485. | 143. | 968. | 203. | 1376. | 269. | 1821. |
| 1.1 | 73. | 492. | 144. | 975. | 204. | 1384. | 270. | 1831. |
| 1.2 | 74. | 500. | 145. | 982. | 206. | 1393. | 272. | 1840. |
| 1.3 | 75. | 507. | 146. | 989. | 207. | 1402. | 273. | 1849. |
| 1.4 | 76. | 515. | 147. | 996. | 208. | 1411. | 274. | 1858. |
| 1.5 | 77. | 522. | 148. | 1003. | 210. | 1420. | 276. | 1868. |
| 1.6 | 78. | 530. | 149. | 1010. | 211. | 1428. | 277. | 1877. |
| 1.7 | 79. | 537. | 150. | 1017. | 212. | 1437. | 278. | 1886. |
| 1.8 | 80. | 544. | 151. | 1024. | 213. | 1446. | 280. | 1895. |
| 1.9 | 81. | 552. | 152. | 1031. | 215. | 1455. | 281. | 1905. |
| 2.0 | 83. | 559. | 153. | 1038. | 216. | 1464. | 282. | 1914. |
| 2.1 | 84. | 567. | 154. | 1045. | 217. | 1472. | 284. | 1923. |
| 2.2 | 85. | 574. | 155. | 1052. | 219. | 1481. | 285. | 1932. |
| 2.3 | 86. | 582. | 156. | 1059. | 220. | 1490. | 287. | 1942. |
| 2.4 | 87. | 589. | 157. | 1066. | 221. | 1499. | 288. | 1951. |
| 2.5 | 88. | 597. | 158. | 1073. | 222. | 1508. | 289. | 1960. |
| 2.6 | 89. | 604. | 159. | 1080. | 224. | 1516. | 291. | 1969. |
| 2.7 | 90. | 612. | 160. | 1087. | 225. | 1525. | 292. | 1979. |
| 2.8 | 91. | 619. | 161. | 1094. | 226. | 1534. | 293. | 1988. |

DIRECT MEASURING SYSTEM TABLE – (Roll: 0°; Pitch: 0° + 2°) – 2°)

| STICK INDICATION | STICK FUEL QUANTITY (USABLE) | | | | | | | |
|---------------------|------------------------------|-------|---------|-------|---------|-------|---------|-------|
| | STICK 1 | | STICK 2 | | STICK 3 | | STICK 4 | |
| | US Gal | pound | US Gal | pound | US Gal | pound | US Gal | pound |
| 2.9 | 92. | 627. | 162. | 1101. | 228. | 1543. | 295. | 1997. |
| 3.0 | 94. | 634. | 164. | 1108. | 229. | 1552. | 296. | 2006. |
| 3.1 | 95. | 641. | 165. | 1115. | 230. | 1560. | 297. | 2016. |
| 3.2 | 96. | 649. | 166. | 1122. | 232. | 1569. | 299. | 2025. |
| 3.3 | 97. | 656. | 167. | 1129. | 233. | 1578. | 300. | 2034. |
| 3.4 | 98. | 664. | 168. | 1136. | 234. | 1587. | 302. | 2043. |
| 3.5 | 99. | 671. | 169. | 1143. | 235. | 1595. | 303. | 2053. |
| 3.6 | 100. | 679. | 170. | 1150. | 237. | 1604. | 304. | 2062. |
| 3.7 | 101. | 686. | 171. | 1157. | 238. | 1613. | 306. | 2071. |
| 3.8 | 102. | 694. | 172. | 1164. | 239. | 1622. | 307. | 2080. |
| 3.9 | 103. | 701. | 173. | 1171. | 241. | 1631. | 308. | 2090. |
| 4.0 | 105. | 709. | 174. | 1178. | 242. | 1639. | 310. | 2099. |
| 4.1 | 106. | 716. | 175. | 1185. | 243. | 1648. | 311. | 2108. |
| 4.2 | 107. | 723. | 176. | 1192. | 245. | 1657. | 312. | 2117. |
| 4.3 | 108. | 731. | 177. | 1199. | 246. | 1666. | 314. | 2127. |
| 4.4 | 109. | 738. | 178. | 1206. | 247. | 1675. | 315. | 2136. |
| 4.5 | 110. | 746. | 179. | 1213. | 248. | 1683. | 317. | 2145. |
| 4.6 | 111. | 753. | 180. | 1220. | 250. | 1692. | 318. | 2154. |
| 4.7 | 112. | 761. | 181. | 1227. | 251. | 1701. | 319. | 2164. |
| 4.8 | 113. | 768. | 182. | 1234. | 252. | 1710. | 321. | 2173. |
| 4.9 | 114. | 776. | 183. | 1241. | 254. | 1719. | 322. | 2182. |
| 5.0 | 116. | 783. | 184. | 1248. | 255. | 1727. | 323. | 2191. |
| 5.1 | 117. | 791. | 185. | 1255. | 256. | 1736. | 325. | 2201. |
| 5.2 | 118. | 798. | 186. | 1262. | 258. | 1745. | 326. | 2210. |
| 5.3 | 119. | 806. | 187. | 1269. | 259. | 1754. | 327. | 2219. |
| 5.4 | 120. | 813. | 188. | 1276. | 260. | 1763. | 329. | 2228. |
| 5.5 | 121. | 820. | 189. | 1283. | 261. | 1771. | 330. | 2238. |
| 5.6 | 122. | 828. | 190. | 1290. | 263. | 1780. | | |
| 5.7 | 123. | 835. | 191. | 1297. | 264. | 1789. | | |
| 5.8 | 124. | 843. | 193. | 1304. | 265. | 1798. | | |
| 5.9 | 125. | 850. | 194. | 1312. | 267. | 1807. | | |
| 6.0 | 127. | 858. | 195. | 1319. | 268. | 1815. | | |
| 6.1 | 128. | 865. | 196. | 1326. | 269. | 1824. | | |
| 6.2 | 129. | 873. | 197. | 1333. | 271. | 1833. | | |

**DIRECT MEASURING SYSTEM TABLE – (Roll: 0°; Pitch: 0° + 2°)
– 2°)**

| STICK INDICATION | STICK FUEL QUANTITY (USABLE) | | | | | | | |
|---------------------|------------------------------|-------|---------|-------|---------|-------|---------|-------|
| | STICK 1 | | STICK 2 | | STICK 3 | | STICK 4 | |
| | US Gal | pound | US Gal | pound | US Gal | pound | US Gal | pound |
| 6.3 | 130. | 880. | 198. | 1340. | 272. | 1842. | | |
| 6.4 | 131. | 888. | 199. | 1347. | 273. | 1851. | | |
| 6.5 | 132. | 895. | 200. | 1354. | 274. | 1859. | | |
| 6.6 | 133. | 902. | 201. | 1361. | | | | |
| 6.7 | 134. | 910. | 202. | 1368. | | | | |
| 6.8 | 135. | 917. | 203. | 1375. | | | | |
| 6.9 | 136. | 925. | 204. | 1382. | | | | |
| 7.0 | 138. | 932. | 205. | 1389. | | | | |
| 7.1 | 139. | 940. | 206. | 1396. | | | | |
| 7.2 | 140. | 947. | 207. | 1403. | | | | |
| 7.3 | 141. | 955. | 208. | 1410. | | | | |
| 7.4 | 142. | 962. | 209. | 1417. | | | | |
| 7.5 | 143. | 970. | 210. | 1424. | | | | |
| 7.6 | 144. | 977. | | | | | | |
| 7.7 | 145. | 985. | | | | | | |
| 7.8 | 146. | 992. | | | | | | |
| 7.9 | 147. | 999. | | | | | | |
| 8.0 | 149. | 1007. | | | | | | |
| 8.1 | 150. | 1014. | | | | | | |
| 8.2 | 151. | 1022. | | | | | | |
| 8.3 | 152. | 1029. | | | | | | |
| 8.4 | 153. | 1037. | | | | | | |
| 8.5 | 154. | 1044. | | | | | | |
| 8.6 | 155. | 1052. | | | | | | |
| 8.7 | 156. | 1059. | | | | | | |
| 8.8 | 157. | 1067. | | | | | | |
| 8.9 | 159. | 1074. | | | | | | |
| 9.0 | 160. | 1081. | | | | | | |
| 9.1 | 161. | 1089. | | | | | | |
| 9.2 | 162. | 1096. | | | | | | |
| 9.3 | 163. | 1104. | | | | | | |
| 9.4 | 164. | 1111. | | | | | | |
| 9.5 | 165. | 1119. | | | | | | |

DIRECT MEASURING SYSTEM TABLE – (Roll: 0°; Pitch: 0° + 2° – 2°)

NOTE: Assumed fuel density: 0.785 kg/l.

For other fuel densities, multiply the volume in liters by the actual fuel density, to find the mass in kilograms.

| STICK INDICATION | STICK FUEL QUANTITY (USABLE) | | | | | | | |
|---------------------|------------------------------|-----|---------|-----|---------|-----|---------|-----|
| | STICK 1 | | STICK 2 | | STICK 3 | | STICK 4 | |
| | LITER | KG | LITER | KG | LITER | KG | LITER | KG |
| 0.1 | 233 | 183 | 505 | 396 | 724 | 568 | 971 | 762 |
| 0.2 | 238 | 187 | 509 | 399 | 729 | 572 | 976 | 766 |
| 0.3 | 242 | 190 | 513 | 403 | 734 | 576 | 981 | 770 |
| 0.4 | 246 | 193 | 517 | 406 | 739 | 580 | 986 | 774 |
| 0.5 | 250 | 196 | 521 | 409 | 744 | 584 | 992 | 779 |
| 0.6 | 254 | 199 | 525 | 412 | 749 | 588 | 997 | 783 |
| 0.7 | 258 | 203 | 529 | 415 | 754 | 592 | 1002 | 787 |
| 0.8 | 263 | 206 | 533 | 418 | 759 | 596 | 1007 | 790 |
| 0.9 | 267 | 209 | 537 | 421 | 764 | 600 | 1012 | 794 |
| 1.0 | 271 | 212 | 541 | 425 | 768 | 603 | 1017 | 798 |
| 1.1 | 275 | 215 | 544 | 427 | 773 | 607 | 1023 | 803 |
| 1.2 | 279 | 219 | 548 | 430 | 778 | 611 | 1028 | 807 |
| 1.3 | 283 | 222 | 552 | 433 | 783 | 615 | 1033 | 811 |
| 1.4 | 288 | 226 | 556 | 436 | 788 | 619 | 1038 | 815 |
| 1.5 | 292 | 229 | 560 | 440 | 793 | 623 | 1043 | 819 |
| 1.6 | 296 | 232 | 564 | 443 | 798 | 626 | 1048 | 823 |
| 1.7 | 300 | 236 | 568 | 446 | 803 | 630 | 1054 | 827 |
| 1.8 | 304 | 239 | 572 | 449 | 808 | 634 | 1059 | 831 |
| 1.9 | 308 | 242 | 576 | 452 | 813 | 638 | 1064 | 835 |
| 2.0 | 312 | 245 | 580 | 455 | 818 | 642 | 1069 | 839 |
| 2.1 | 317 | 249 | 584 | 458 | 823 | 646 | 1047 | 843 |
| 2.2 | 321 | 252 | 588 | 462 | 827 | 649 | 1080 | 848 |
| 2.3 | 325 | 255 | 592 | 465 | 832 | 653 | 1085 | 852 |
| 2.4 | 329 | 258 | 595 | 467 | 837 | 657 | 1090 | 856 |
| 2.5 | 333 | 261 | 599 | 470 | 842 | 661 | 1095 | 860 |
| 2.6 | 337 | 265 | 603 | 473 | 847 | 665 | 1100 | 864 |
| 2.7 | 342 | 268 | 607 | 476 | 852 | 669 | 1105 | 867 |
| 2.8 | 346 | 272 | 611 | 480 | 857 | 673 | 1111 | 872 |
| 2.9 | 350 | 275 | 615 | 483 | 862 | 677 | 1116 | 876 |

**DIRECT MEASURING SYSTEM TABLE – (Roll: 0°; Pitch: 0° + 2°)
– 2°)**

| STICK INDICATION | STICK FUEL QUANTITY (USABLE) | | | | | | | |
|---------------------|------------------------------|-----|---------|-----|---------|-----|---------|-----|
| | STICK 1 | | STICK 2 | | STICK 3 | | STICK 4 | |
| | LITER | KG | LITER | KG | LITER | KG | LITER | KG |
| 3.0 | 354 | 278 | 619 | 486 | 867 | 681 | 1121 | 880 |
| 3.1 | 358 | 281 | 623 | 489 | 872 | 685 | 1126 | 884 |
| 3.2 | 362 | 284 | 627 | 492 | 877 | 688 | 1131 | 888 |
| 3.3 | 367 | 288 | 631 | 495 | 881 | 692 | 1136 | 892 |
| 3.4 | 371 | 291 | 635 | 498 | 886 | 696 | 1142 | 896 |
| 3.5 | 375 | 294 | 639 | 502 | 891 | 699 | 1147 | 900 |
| 3.6 | 379 | 298 | 642 | 504 | 896 | 703 | 1152 | 904 |
| 3.7 | 383 | 301 | 646 | 507 | 901 | 707 | 1157 | 908 |
| 3.8 | 387 | 304 | 650 | 510 | 906 | 711 | 1162 | 912 |
| 3.9 | 392 | 308 | 654 | 513 | 911 | 715 | 1167 | 916 |
| 4.0 | 396 | 311 | 658 | 517 | 916 | 719 | 1173 | 921 |
| 4.1 | 400 | 314 | 662 | 520 | 921 | 723 | 1178 | 925 |
| 4.2 | 404 | 317 | 666 | 523 | 926 | 727 | 1183 | 929 |
| 4.3 | 408 | 320 | 670 | 526 | 931 | 731 | 1188 | 933 |
| 4.4 | 413 | 324 | 674 | 529 | 936 | 735 | 1193 | 937 |
| 4.5 | 417 | 327 | 678 | 532 | 940 | 738 | 1198 | 940 |
| 4.6 | 421 | 330 | 682 | 535 | 945 | 742 | 1204 | 945 |
| 4.7 | 425 | 334 | 686 | 539 | 950 | 746 | 1208 | 948 |
| 4.8 | 429 | 337 | 690 | 542 | 955 | 750 | 1214 | 953 |
| 4.9 | 433 | 340 | 693 | 544 | 960 | 754 | 1219 | 957 |
| 5.0 | 438 | 344 | 697 | 547 | 965 | 758 | 1224 | 961 |
| 5.1 | 442 | 347 | 701 | 550 | 970 | 761 | 1229 | 965 |
| 5.2 | 446 | 350 | 705 | 553 | 975 | 765 | 1235 | 969 |
| 5.3 | 450 | 353 | 709 | 557 | 980 | 769 | 1240 | 973 |
| 5.4 | 454 | 356 | 713 | 560 | 985 | 773 | 1245 | 977 |
| 5.5 | 458 | 360 | 717 | 563 | 990 | 777 | 1250 | 981 |
| 5.6 | 463 | 363 | 721 | 566 | 995 | 781 | | |
| 5.7 | 467 | 367 | 725 | 569 | 999 | 784 | | |
| 5.8 | 471 | 370 | 729 | 572 | 1004 | 788 | | |
| 5.9 | 475 | 373 | 733 | 575 | 1009 | 792 | | |
| 6.0 | 479 | 376 | 737 | 579 | 1014 | 796 | | |
| 6.1 | 483 | 379 | 741 | 582 | 1019 | 800 | | |
| 6.2 | 488 | 383 | 744 | 584 | 1024 | 804 | | |
| 6.3 | 492 | 386 | 748 | 587 | 1029 | 808 | | |

**DIRECT MEASURING SYSTEM TABLE – (Roll: 0°; Pitch: 0° + 2°
– 2°)**

| STICK INDICATION | STICK FUEL QUANTITY (USABLE) | | | | | | | |
|---------------------|------------------------------|-----|---------|-----|---------|-----|---------|----|
| | STICK 1 | | STICK 2 | | STICK 3 | | STICK 4 | |
| | LITER | KG | LITER | KG | LITER | KG | LITER | KG |
| 6.4 | 496 | 389 | 752 | 590 | 1034 | 812 | | |
| 6.5 | 500 | 393 | 756 | 593 | 1039 | 816 | | |
| 6.6 | 504 | 396 | 760 | 597 | | | | |
| 6.7 | 508 | 399 | 764 | 600 | | | | |
| 6.8 | 513 | 403 | 768 | 603 | | | | |
| 6.9 | 517 | 406 | 772 | 606 | | | | |
| 7.0 | 521 | 409 | 776 | 609 | | | | |
| 7.1 | 525 | 412 | 780 | 612 | | | | |
| 7.2 | 529 | 415 | 784 | 615 | | | | |
| 7.3 | 533 | 418 | 788 | 619 | | | | |
| 7.4 | 538 | 422 | 791 | 621 | | | | |
| 7.5 | 542 | 425 | 795 | 624 | | | | |
| 7.6 | 546 | 429 | | | | | | |
| 7.7 | 550 | 432 | | | | | | |
| 7.8 | 554 | 435 | | | | | | |
| 7.9 | 558 | 438 | | | | | | |
| 8.0 | 563 | 442 | | | | | | |
| 8.1 | 567 | 445 | | | | | | |
| 8.2 | 571 | 448 | | | | | | |
| 8.3 | 575 | 451 | | | | | | |
| 8.4 | 579 | 455 | | | | | | |
| 8.5 | 583 | 458 | | | | | | |
| 8.6 | 588 | 462 | | | | | | |
| 8.7 | 592 | 465 | | | | | | |
| 8.8 | 596 | 468 | | | | | | |
| 8.9 | 600 | 471 | | | | | | |
| 9.0 | 604 | 474 | | | | | | |
| 9.1 | 608 | 477 | | | | | | |
| 9.2 | 613 | 481 | | | | | | |
| 9.3 | 617 | 484 | | | | | | |
| 9.4 | 621 | 487 | | | | | | |
| 9.5 | 625 | 491 | | | | | | |