



# Standard Part

## Hex Socket Head Cap Screws Metric

STPC520

87355934

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### 1. SCOPE

The fasteners defined by this standard are Hex Socket Head Cap Screws with coarse thread.

### 2. GENERAL

2.1 This standard may differ in some respects with certain segments of ISO and national standards. In recognition of these differences, the sizes and tolerance ranges used were established in an effort to enable the use of commercially available items, dimensionally interchangeable worldwide.

2.2 Preferred parts are so designated to reduce variety of parts and assure maximum availability, interchangeability and cost savings. Refer to ENPA110 for details.

### 3. RELATED DOCUMENTS

#### 3.1 RELATED STANDARDS

STPA020—Fastener Finishes and Material Specifications

ENPA110—Preferred Parts

ANSI B18.3.1M—Socket Head Cap Screws Metric

DIN 912—Hexagon Socket Head Cap Screws

DIN 6912 - Hexagon Socket Thin Head Cap Screws With Pilot Recess

ISO 898/1—Mechanical Properties of Fasteners

ISO 965/2—ISO General Purpose Metric Screw Threads-Tolerances

ISO 4762—Hexagon Socket Head Cap Screws

ISO 888—Bolts, Screws and Studs-Nominal Lengths and Thread Lengths For General Purpose Bolts

Iveco 18-1103—Zinc-Nickel Electrolytic Coating for Ferrous Metal Parts

SAE J123—Surface Discontinuities on Bolts, Screws and Studs

FIAT 10356—Hexagon Socket Head Screws

FIAT 10356/04— Hexagon Socket Head Screws for Severe Applications

FIAT 10356/30—Thin Hexagon Socket Head Screws

FIAT 10356/33—Thin Hexagon Socket Head Screws for Severe Applications Under Fatigue Stress

#### 3.2 REPLACED STANDARDS

CM-020 (Case)—Hexagon Socket Head Cap Screws (General Specifications)

CM-021 (Case)—Hexagon Socket Head Cap Screws Class 8.8 ZND - Preferred

CM-022 (Case)—Hexagon Socket Head Cap Screws Class 12.9 - Preferred

CM-023 (Case)—Hexagon Socket Head Cap Screws – Non-Preferred

CM-024 (Case)—Hexagon Socket Head Cap Screws Class 10.9 – Not Recommended

CM-025 (Case)—Hexagon Socket Head Cap Screws Fine Thread – Non-Preferred

FNHA-1-A-070.00 (NH)—Cap Screws, Hex Socket Head, Plain

| AUTHOR | APPROVED BY    | ECO     | PART NUMBER |
|--------|----------------|---------|-------------|
| D RAVI | 16JUN26 A KHAN | 16JUN26 | 35529212    |
|        |                |         | 87355934    |

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#### 4. CROSS REFERENCE

For cross reference listing of company part numbers, go to [PARTsolutions](#).

#### 5. HEADS

Unless otherwise specified, knurling on heads shall be optional with the manufacturer providing the diameter across the tops of the knurl and the diameter of the head before knurling or of the unknurled portion are within the tabulated maximum and minimum head diameter limits, respectively.

Some thin head screw based on Fiat Standard 10356/30 are listed in table 4-Non Preferred Parts. Figure 2 includes the Fiat thin head values.

#### 6. THREADS

Thread form, diameters and associated pitches are in accordance with ISO Standards. Threads shall be tolerance class 5g6g for class 12.9 and 6g for other classes, before plating. Threads with tolerance class 4g6g are an acceptable alternate for class 12.9 as specified in ANSI B18.3.1M.

#### 7. MATERIAL

Class 8.8 or 12.9 alloy steel. Certain zinc electroplated and mechanical plated high hardness fasteners have been identified as being highly susceptible to Hydrogen Assisted Cracking (HAC). Use of these fasteners is restricted: they shall not be used in new designs after 01OCT2011. Refer MAT0310

#### 8. FINISH

Screws shall be furnished plated or coated in accordance with CNH STPA020.

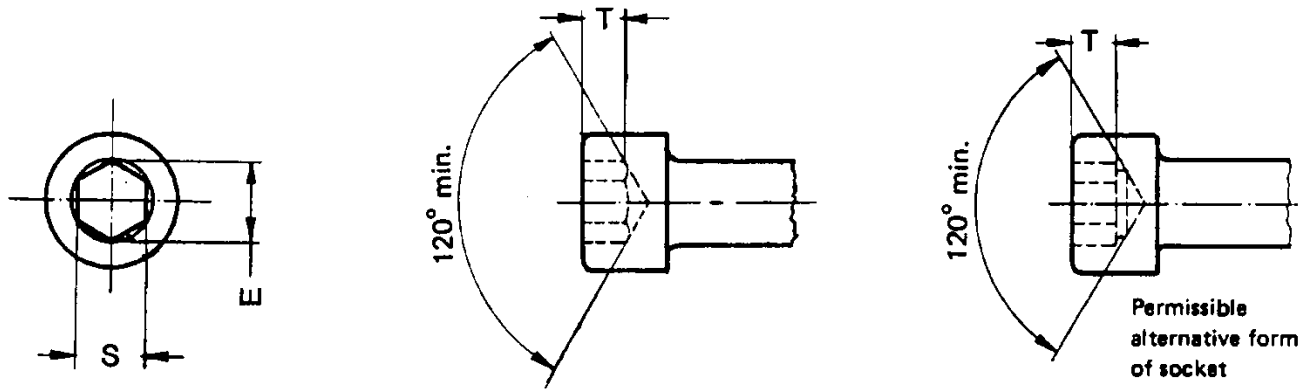
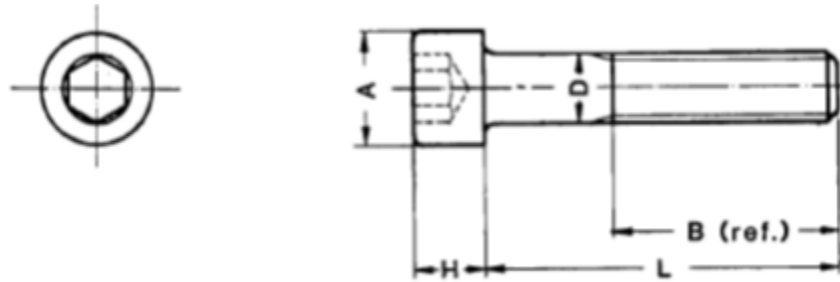


FIGURE 1: Hexagon Socket Head Cap Screws

| Nominal Size | S            |        |        | E              | T                       |
|--------------|--------------|--------|--------|----------------|-------------------------|
|              | Across Flats |        |        | Across Corners | Depth of Key Engagement |
|              | nom.         | max.   | min.   | min.           | min. (ref)              |
| M3           | 2.5          | 2.58   | 2.52   | 2.87           | 1.3                     |
| M4           | 3            | 3.08   | 3.02   | 3.44           | 2                       |
| M5           | 4            | 4.09   | 4.02   | 4.58           | 2.5                     |
| M6           | 5            | 5.14   | 5.02   | 5.72           | 3                       |
| M8           | 6            | 6.14   | 6.02   | 6.86           | 4                       |
| M10          | 8            | 8.175  | 8.02   | 9.15           | 5                       |
| M12          | 10           | 10.175 | 10.02  | 11.43          | 6                       |
| M14          | 12           | 12.212 | 12.03  | 13.72          | 7                       |
| M16          | 14           | 14.212 | 14.03  | 16             | 8                       |
| M18          | 14           | 14.212 | 14.03  | 16             | 9                       |
| M20          | 17           | 17.23  | 17.05  | 19.44          | 10                      |
| M22          | 17           | 17.23  | 17.05  | 19.44          | 11                      |
| M24          | 19           | 19.275 | 19.06  | 21.73          | 12                      |
| M27          | 19           | 19.275 | 19.065 | 21.73          | 13.5                    |
| M30          | 22           | 22.275 | 22.065 | 25.15          | 15                      |



**FIGURE 2: Hexagon Socket Head Cap Screws**

| Nominal Size |                  |         | M3    | M4    | M5    | M6    | M8    | M10            | M12           |       |
|--------------|------------------|---------|-------|-------|-------|-------|-------|----------------|---------------|-------|
| A            | Head Dia.        | max.    | 5.68  | 7.22  | 8.72  | 10.22 | 13.27 | 16.27          | 18.27         |       |
|              |                  | min.    | 5.32  | 6.78  | 8.27  | 9.74  | 12.70 | 15.67          | 17.63         |       |
|              |                  |         |       |       |       |       |       |                |               |       |
| B            | Thread Length.   | ref.    | 18    | 20    | 22    | 24    | 28    | 32             | 36            |       |
|              |                  |         |       |       |       |       |       |                |               |       |
| D            | Body Dia.        | max.    | 3     | 4     | 5     | 6     | 8     | 10             | 12            |       |
|              |                  | min.    | 2.86  | 3.82  | 4.82  | 5.82  | 7.78  | 9.78           | 11.73         |       |
|              |                  |         |       |       |       |       |       |                |               |       |
| H            | Head Height      | max.    | 3     | 4     | 5     | 6     | 8     | 10             | 12            |       |
|              |                  | min.    | 2.86  | 3.82  | 4.82  | 5.7   | 7.64  | 9.64           | 11.57         |       |
| H            | Head Height-Fiat | max.    |       |       | 5     | 6     | 8     | M10x1.25<br>10 | M14x1.5<br>14 |       |
|              |                  | min.    |       |       | 4.82  | 5.70  | 7.64  | 9.64           | 13.57         |       |
|              |                  |         |       |       |       |       |       |                |               |       |
|              | Pitch, nom.      | Coarse  | 0.5   | 0.7   | 0.8   | 1     | 1.25  | 1.5            | 1.75          |       |
|              |                  | Fine    |       |       |       |       | 1     | 1.25           | 1.5           |       |
|              |                  | Ex Fine |       |       |       |       |       | 1              | 1.25          |       |
|              |                  |         |       |       |       |       |       |                |               |       |
| Nominal Size |                  |         | M14   | M16   | M18   | M20   | M22   | M24            | M27           | M30   |
| A            | Head Dia.        | max.    | 21.33 | 24.33 | 27.33 | 30.33 | 33.39 | 36.39          | 40            | 45.39 |
|              |                  | min.    | 20.6  | 23.58 | 26.67 | 29.53 | 32.61 | 35.48          | 39.61         | 44.42 |
|              |                  |         |       |       |       |       |       |                |               |       |
| B            | Thread Length.   | ref.    | 40    | 44    | 48    | 52    | 56    | 60             | 66            | 72    |
|              |                  |         |       |       |       |       |       |                |               |       |
| D            | Body Dia.        | max.    | 14    | 16    | 18    | 20    | 22    | 24             | 27            | 30    |
|              |                  | min.    | 13.73 | 15.73 | 17.73 | 19.67 | 21.67 | 23.67          | 26.67         | 29.67 |
|              |                  |         |       |       |       |       |       |                |               |       |
| H            | Head Height      | max.    | 14    | 16    | 18    | 20    | 22    | 24             | 27            | 30    |
|              |                  | min.    | 13.57 | 15.57 | 17.57 | 19.48 | 21.48 | 23.48          | 26.48         | 29.48 |
|              |                  |         |       |       |       |       |       |                |               |       |
|              | Pitch, nom.      | Coarse  | 2     | 2     | 2.5   | 2.5   | 2.5   | 3              | 3             | 3.5   |
|              |                  | Fine    | 1.5   | 1.5   | 2     | 2     | 2     | 2              | 2             | 2     |
|              |                  | Ex Fine |       |       | 1.5   | 1.5   | 1.5   |                |               |       |



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TABLE 1: Hex Socket Head Screws 8.8 ZND Preferred

| Fully Threaded                | Length | M3       | M4       | M5        | M6       | M8       | M10      | M12      | M16      |
|-------------------------------|--------|----------|----------|-----------|----------|----------|----------|----------|----------|
|                               | 8      |          |          | 1405313   |          |          |          |          |          |
|                               | 10     |          | 14302921 | 14304021  | 87016470 |          |          |          |          |
|                               | 12     |          | 14303021 | 86625213  | 63582    | 2168745  |          |          |          |
|                               | 14     | 92711936 |          | 14304621  | 14305721 |          | 47919313 |          |          |
|                               | 16     |          | 86624126 | 14304221  | 14305221 | 14306221 | 14301821 |          |          |
|                               | 20     |          | 86639294 | 14304321  | 86531615 | 120228   | 86632600 | 9837786  |          |
| Screws with Unthreaded Shanks | 22     |          |          |           | 90482855 | 14359221 |          |          |          |
|                               | 25     | 47937784 | 87016468 | 87016469  | 9832203  | 86625220 | 120052   | 87016466 |          |
|                               | 30     |          |          | 14304521  | 14305521 | 86625221 | 300442   | 14422021 | 1190518  |
|                               | 35     |          | 87017617 | 14358721  | 120162   | 14306621 | 81869630 | 14422121 |          |
|                               | 40     |          |          | 87625620  | 14305821 | 14306721 | 14420421 | 14422221 | 14426221 |
|                               | 45     |          |          | 14358921  | 14305921 | 14306821 | 14420521 | 14422321 | 14426321 |
|                               | 50     | 47769299 | 47818567 |           | 356464   | 14306921 | 991981   | 14422421 | 14426421 |
|                               | 55     |          |          | 87657975  | 7832176  | 14302221 | 87530644 |          | 14426521 |
|                               | 60     |          |          | 14301521  | 14303821 | 14308921 | 412412   | 14422621 | 14426621 |
|                               | 65     |          |          |           | 14309221 | 14359321 | 14420921 | 9848677  |          |
|                               | 70     |          |          | 47543002  |          | 87015319 | 6220282  | 14422821 |          |
|                               | 75     |          |          | 47454925  |          | 14359421 | 90434051 |          | 14426821 |
|                               | 80     |          |          |           | 10589621 | 87302046 | 84056630 | 73176858 |          |
|                               | 90     |          |          |           | 14300721 | 1960667  | 1758053  | 14423221 |          |
|                               | 100    |          |          | 920018976 | 1148689  | 14302121 | 84062671 |          |          |
|                               | 110    |          |          |           |          | 51431941 | 6220393  |          | 87318072 |
|                               | 120    |          |          |           | 61852    |          |          |          | 1537859  |
|                               | 125    |          |          |           | 2900887  |          |          |          |          |
|                               | 130    |          |          |           |          |          | 2168573  |          |          |
|                               | 140    |          |          |           |          | 14301721 |          |          |          |
|                               | 150    |          |          |           |          |          | 87602936 |          | 2168261  |
|                               | 160    |          |          |           |          |          | 87605317 |          |          |
|                               | 180    |          |          |           |          |          |          |          | 6220433  |

Lengths above the heavy line are threaded to head within 3P.



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TABLE 2: Hex Socket Head Screws 12.9 BLO Preferred

|                               | Length | M3       | M5       | M6       | M8       | M10      | M12      | M16      | M20      |
|-------------------------------|--------|----------|----------|----------|----------|----------|----------|----------|----------|
| Fully Threaded                | 10     |          |          | 86635439 |          |          |          |          |          |
|                               | 12     | 84160007 |          |          |          |          |          |          |          |
|                               | 16     |          |          | 86512134 | 86566099 |          |          |          |          |
|                               | 20     |          |          | 86512135 | 86512138 | 86528768 | 86512141 |          |          |
|                               | 25     |          | 86026885 | 84432127 | 9706749  | 86508097 |          |          |          |
|                               | 30     |          |          | 86512136 |          | 87016471 | 86512142 |          |          |
| Screws with Unthreaded Shanks | 35     |          |          | 9515561  | 86531614 | 86566100 |          | 86511482 |          |
|                               | 40     |          |          | 84233542 | 87602944 | 86512139 | 280685   | 92710659 |          |
|                               | 45     |          |          |          |          | 87016473 |          |          |          |
|                               | 50     |          |          |          |          | 86512140 |          | 86512144 |          |
|                               | 55     |          |          |          | 87016474 |          |          |          |          |
|                               | 60     |          |          |          | 87016475 | 47723600 |          |          |          |
|                               | 70     |          |          |          |          |          |          |          |          |
|                               | 80     |          |          |          |          |          |          |          | 87301555 |
|                               | 85     |          |          | 84375319 |          |          |          |          |          |
|                               | 90     |          |          |          |          |          |          |          |          |
|                               | 100    |          |          |          |          | 14421470 |          |          |          |
|                               | 120    |          |          |          |          |          |          | 87349280 | 87698809 |

Lengths above the heavy line are threaded to head within 3P.



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TABLE 3: Hex Socket Head Screws 12.9 PHC Preferred

|                               | Length | M4       | M6       | M8       | M10      | M12      | M16      | M20      |
|-------------------------------|--------|----------|----------|----------|----------|----------|----------|----------|
| Fully Threaded                | 10     | 87698788 | 87016478 |          |          |          |          |          |
|                               | 12     | 87016477 |          |          |          |          |          |          |
|                               | 16     |          |          |          | 86625198 |          |          |          |
|                               | 20     |          | 86625218 | 86641293 | 76088810 | 87690478 |          |          |
|                               | 25     |          |          | 84388504 | 86625209 |          |          |          |
| Screws with Unthreaded Shanks | 30     |          |          |          |          |          |          |          |
|                               | 35     |          |          |          |          |          |          |          |
|                               | 40     |          | 87035492 |          |          |          |          | 47446565 |
|                               | 45     |          |          | 440427   |          | 84586984 |          |          |
|                               | 50     |          |          |          |          | 86511099 | 47915366 | 87733367 |
|                               | 55     |          |          | 51465902 |          | 84415411 | 87578960 |          |
|                               | 60     |          |          |          |          | 84349414 |          |          |
|                               | 65     |          |          |          |          |          | 47915365 |          |
|                               | 70     |          |          |          | 86639266 | 84265310 | 2465669  |          |
|                               | 75     |          |          |          |          | 47456945 |          |          |
|                               | 80     |          |          |          |          |          |          |          |
|                               | 90     |          |          |          |          |          | 2465671  |          |
|                               | 100    |          |          | 51465903 |          |          |          |          |

Lengths above the heavy line are threaded to head within 3P.

**TABLE 4: Hex Socket Head Screws Non-Preferred**

| Dia | Pitch | Length | Threads | Material   | Finish | Part Number |
|-----|-------|--------|---------|------------|--------|-------------|
| 4   | 0.7   | 8      | FULL    | 8.8        | ZND    | 14418921    |
| 4   | 0.7   | 8      | FULL    | 8.8        | DAC    | 14418924    |
| 4   | 0.7   | 10     | FULL    | 8.8        | DAC    | 14302924    |
| 4   | 0.7   | 10     | FULL    | 8.8        | BLO    | 47481239    |
| 4   | 0.7   | 10     | FULL    | SST        | PLN    | 5113531     |
| 4   | 0.7   | 10     | FULL    | 10.9       | ZND    | 14302931    |
| &4  | 0.7   | 10     | FULL    | 12.9       | ZND    | 14302971    |
| 4   | 0.7   | 12     | FULL    | 8.8        | DAC    | 14303024    |
| 4   | 0.7   | 12     | FULL    | 12.9       | DAC    | 14303074    |
| 4   | 0.7   | 12     | FULL    | 8.8        | DOR    | 87343623    |
| 4   | 0.7   | 12     | FULL    | SST        | PLN    | 84246766    |
| 4   | 0.7   | 14     | FULL    | 8.8        | DAC    | 14303124    |
| 4   | 0.7   | 16     | FULL    | 8.8        | BLO    | 51565787    |
| ^4  | 0.7   | 16     | FULL    | 8.8        | ZND    | 90358307    |
| 4   | 0.7   | 16     | FULL    | A4-70      | PLN    | 90421910    |
| 4   | 0.7   | 20     | FULL    | 8.8        | DAC    | 14303324    |
| 4   | 0.7   | 20     | FULL    | 12.9       | DAC    | 14303374    |
| 4   | 0.7   | 25     | FULL    | 8.8        | DAC    | 14303424    |
| 4   | 0.7   | 25     | FULL    | A2-70      | BLO    | 14303487    |
| 4   | 0.7   | 25     | FULL    | 8.8        | BGM    | 5180363     |
| 4   | 0.7   | 25     | FULL    | 8.8        | BZN    | 47523574    |
| 4   | 0.7   | 40     |         | 10.9       | DAC    | 51612495    |
| 4   | 0.7   | 45     |         | 10.9       | DAC    | 51604815    |
| 4   | 0.7   | 55     |         | 12.9       | PLN    | 82865221    |
| 5   | 0.8   | 6      | FULL    | 8.8        | PLN    | 47800004    |
| ^5  | 0.8   | 8      | FULL    | 8.8        | ZND    | 51591732    |
| 5   | 0.8   | 10     | FULL    | 8.8        | BGM    | 92088036    |
| *5  | 0.8   | 10     | FULL    | 10.9       | DAC    | 47801832    |
| *5  | 0.8   | 10     | FULL    | 10.9       | !ZnNi  | 90465946    |
| 5   | 0.8   | 12     | FULL    | 8.8        | BGM    | 47802406    |
| ^5  | 0.8   | 12     | FULL    | 8.8        | ZND    | 51591733    |
| 5   | 0.8   | 12     | FULL    | A2/304 SST | PLN    | 92285758    |
| 5   | 0.8   | 14     | FULL    | 8.8        | PLN    | 14304620    |
| 5   | 0.8   | 14     | FULL    | 8.8        | DAC    | 14304624    |
| 5   | 0.8   | 14     | FULL    | 8.8        | BZN    | 14304627    |
| 5   | 0.8   | 14     | FULL    | 10.9       | ZND    | 14304631    |
| 5   | 0.8   | 16     | FULL    | 8.8        | BLO    | 84382752    |
| 5   | 0.8   | 16     | FULL    | 8.8        | DAC    | 14304224    |
| 5   | 0.8   | 16     | FULL    | 8.8        | !ZnNi  | 90455993    |
| 5   | 0.8   | 16     | FULL    | A2-70      | PLN    | 47830470    |

| Dia | Pitch | Length | Threads | Material | Finish  | Part Number |
|-----|-------|--------|---------|----------|---------|-------------|
| 5   | 0.8   | 16     | FULL    | 8.8      | ZN-NI-6 | 92031136    |
| 5   | 0.8   | 18     | FULL    | 8.8      | DAC     | 14358524    |
| 5   | 0.8   | 20     | FULL    | 8.8      | BGM     | 92088037    |
| 5   | 0.8   | 20     | FULL    | 8.8      | DAC     | 14304324    |
| 5   | 0.8   | 22     | FULL    | 10.9     | ZND     | 14358631    |
| 5   | 0.8   | 22     | FULL    | A2-70    | BLO     | 14358687    |
| &5  | 0.8   | 25     | FULL    | 12.9     | ZND     | 87032011    |
| 5   | 0.8   | 30     |         | 8.8      | BLO     | 48058154    |
| 5   | 0.8   | 30     | FULL    | 8.8      | ZND     | 1570684     |
| 5   | 0.8   | 30     | FULL    | 10.9     | PLN     | 14304530    |
| 5   | 0.8   | 30     | FULL    | 10.9     | ZND     | 14304531    |
| 5   | 0.8   | 35     |         | 8.8      | BGM     | 92088038    |
| 5   | 0.8   | 35     | FULL    | 8.8      | DAC     | 14358724    |
| 5   | 0.8   | 35     | FULL    | 8.8      | BZN     | 14358727    |
| 5   | 0.8   | 35     | FULL    | 8.8      | !ZnNi   | 90465945    |
| 5   | 0.8   | 35     | FULL    | 8.8      | ZN-NI-6 | 92031134    |
| 5   | 0.8   | 35     | FULL    | 12.9     | PHC     | 84517619    |
| 5   | 0.8   | 40     |         | A2       | PLN     | 47490887    |
| 5   | 0.8   | 40     | FULL    | 8.8      | DAC     | 14358824    |
| 5   | 0.8   | 45     | FULL    | 8.8      | PLN     | 14358920    |
| 5   | 0.8   | 45     | FULL    | 8.8      | DAC     | 14358924    |
| 5   | 0.8   | 45     | FULL    | 8.8      | DOR     | 87343624    |
| 5   | 0.8   | 50     | FULL    | 8.8      | DAC     | 14304724    |
| 5   | 0.8   | 50     | FULL    | 10.9     | PLN     | 14304730    |
| 5   | 0.8   | 70     |         | 8.8      | DAC     | 14301624    |
| 5   | 0.8   | 70     | FULL    | 10.9     | PLN     | 14301630    |
| 5   | 0.8   | 80     |         | 10.9     | ZND     | 87698787    |
| 5   | 0.8   | 90     |         | 10.9     | BZN     | 920017758   |
| 5   | 0.8   | 120    |         | 10.9     | ZND     | 47594582    |
| 5   | 0.8   | 130    |         | 10.9     | DAC     | 84224887    |
| *6  | 1     | 8      | FULL    | 8.8      | ZND     | 47779304    |
| *6  | 1     | 10     | FULL    | 8.8      | ZND     | 47496438    |
| 6   | 1     | 10     | FULL    | 8.8      | DAC     | 14305024    |

& Do not use for new designs after 01OCT2011

(Hydrogen assisted Cracking – HAC)

\*Thin Head (Fiat 10356/30)

^ Chemical lock per IFI 525; ND Microspheres 593S (Blue) or Precote 85; Minimum of 5 pitches, entire circumference starting 2 pitches from end.

!ZnNi–Zinc Nickel - Iveco 18-1103 Fe/ZnNi 7 IV

**TABLE 4: Hex Socket Head Screws Non-Preferred (Continued)**

| Dia | Pitch | Length | Threads | Material | Finish | Part Number |
|-----|-------|--------|---------|----------|--------|-------------|
| 6   | 1     | 12     | FULL    | 8.8      | BGM    | 92088026    |
| 6   | 1     | 12     | FULL    | 8.8      | PLN    | 14305120    |
| 6   | 1     | 12     | FULL    | 8.8      | DAC    | 14305124    |
| 6   | 1     | 12     | FULL    | 10.9     | ZND    | 14305131    |
| 6   | 1     | 12     | FULL    | 10.9     | DAC    | 14305134    |
| 6   | 1     | 12     | FULL    | SST      | PLN    | 90343282    |
| *6  | 1     | 14     | FULL    | 8.8      | BGM    | 90428243    |
| 6   | 1     | 14     | FULL    | 8.8      | BLO    | 47481245    |
| 6   | 1     | 14     | FULL    | 8.8      | PLN    | 14305720    |
| 6   | 1     | 14     | FULL    | 8.8      | DAC    | 14305724    |
| 6   | 1     | 14     | FULL    | 10.9     | ZND    | 14305731    |
| 6   | 1     | 14     | FULL    | 12.9     | DAC    | 47940512    |
| 6   | 1     | 14     | FULL    | SST      | PLN    | 47372452    |
| 6   | 1     | 16     | FULL    | 8.8      | BGM    | 48061007    |
| 6   | 1     | 16     | FULL    | 8.8      | BZN    | 2479277     |
| 6   | 1     | 16     | FULL    | 8.8      | PLN    | 14305220    |
| 6   | 1     | 16     | FULL    | 8.8      | DAC    | 14305224    |
| 6   | 1     | 16     | FULL    | 8.8      | DOR    | 87343625    |
| 6   | 1     | 16     | FULL    | 10.9     | ZND    | 14305231    |
| 6   | 1     | 16     | FULL    | A2-70    | BLO    | 92162771    |
| 6   | 1     | 18     | FULL    | 8.8      | BLO    | 47479061    |
| 6   | 1     | 18     | FULL    | 8.8      | BZN    | 51683373    |
| 6   | 1     | 18     | FULL    | 8.8      | DAC    | 14433124    |
| 6   | 1     | 18     | FULL    | 8.8      | ZND    | 14433121    |
| 6   | 1     | 20     | FULL    | 8.8      | BGM    | 47380613    |
| 6   | 1     | 20     | FULL    | 8.8      | DAC    | 90391711    |
| 6   | 1     | 20     | FULL    | 8.8      | PLN    | 14305320    |
| ^6  | 1     | 20     | FULL    | 8.8      | ZND    | 90496610    |
| 6   | 1     | 20     | FULL    | 10.9     | DAC    | 14305334    |
| 6   | 1     | 20     | FULL    | 10.9     | ZND    | 14305331    |
| 6   | 1     | 20     | FULL    | 12.9     | DAC    | 14305374    |
| ^6  | 1     | 20     | FULL    | 12.9     | PHC    | 90358308    |
| 6   | 1     | 20     | FULL    | A2-70    | BLO    | 14305387    |
| 6   | 1     | 22     | FULL    | 8.8      | ZND    | 14432221    |
| 6   | 1     | 22     | FULL    | 8.8      | DAC    | 14432224    |
| 6   | 1     | 22     | FULL    | 8.8      | BLO    | 14432226    |
| 6   | 1     | 22     | FULL    | 10.9     | ZND    | 14432231    |
| 6   | 1     | 25     | FULL    | 8.8      | PLN    | 14305420    |
| 6   | 1     | 25     | FULL    | 8.8      | BGM    | 92163917    |
| 6   | 1     | 25     | FULL    | 8.8      | BZN    | 47468253    |
| 6   | 1     | 25     | FULL    | 8.8      | DAC    | 14305424    |
| 6   | 1     | 25     | FULL    | 8.8      | DOR    | 87343627    |

| Dia | Pitch | Length | Threads | Material   | Finish | Part Number |
|-----|-------|--------|---------|------------|--------|-------------|
| 6   | 1     | 25     | FULL    | 10.9       | PHC    | 84479322    |
| 6   | 1     | 25     | FULL    | 10.9       | ZND    | 14305431    |
| 6   | 1     | 25     | FULL    | A2/304 SST | PLN    | 92288734    |
| 6   | 1     | 30     | FULL    | 8.8        | PLN    | 14305520    |
| 6   | 1     | 30     | FULL    | 8.8        | BGM    | 92130062    |
| 6   | 1     | 30     | FULL    | 8.8        | BZN    | 87033714    |
| 6   | 1     | 30     | FULL    | 8.8        | DAC    | 14305524    |
| ^6  | 1     | 30     | FULL    | 8.8        | DAC    | 90358309    |
| 6   | 1     | 30     | FULL    | 10.9       | ZND    | 14305531    |
| 6   | 1     | 30     | FULL    | 10.9       | DAC    | 14305534    |
| 6   | 1     | 30     | FULL    | 12.9       | DAC    | 14305574    |
| 6   | 1     | 35     |         | 8.8        | PLN    | 14305620    |
| 6   | 1     | 35     | FULL    | 8.8        | ZND    | 47851211    |
| 6   | 1     | 35     |         | 8.8        | DAC    | 14305624    |
| 6   | 1     | 35     |         | 10.9       | ZND    | 14305631    |
| 6   | 1     | 35     |         | 10.9       | DAC    | 14305634    |
| 6   | 1     | 35     |         | 12.9       | PLN    | 14305670    |
| &6  | 1     | 35     |         | 12.9       | ZND    | 14305671    |
| 6   | 1     | 35     |         | 12.9       | DAC    | 47940507    |
| 6   | 1     | 35     |         | 12.9       | DOR    | 84371846    |
| 6   | 1     | 40     |         | 10.9       | PLN    | 14305830    |
| 6   | 1     | 40     |         | 10.9       | ZND    | 14305831    |
| 6   | 1     | 40     |         | 12.9       | DOR    | 47385258    |
| 6   | 1     | 45     | FULL    | 8.8        | BLO    | 51688800    |
| 6   | 1     | 45     |         | 8.8        | DAC    | 14305924    |
| 6   | 1     | 45     |         | 12.9       | DAC    | 92662676    |
| &6  | 1     | 45     |         | 12.9       | ZND    | 14305971    |
| 6   | 1     | 50     |         | 8.8        | DAC    | 14306024    |
| 6   | 1     | 50     |         | 10.9       | ZND    | 14306031    |
| 6   | 1     | 50     |         | 10.9       | DAC    | 14306034    |
| 6   | 1     | 50     |         | 12.9       | DAC    | 47940518    |
| &6  | 1     | 50     |         | 12.9       | ZND    | 14306071    |
| 6   | 1     | 50     | FULL    | 12.9       | BLO    | 9515562     |
| 6   | 1     | 55     |         | 8.8        | DAC    | 14304824    |
| &6  | 1     | 55     |         | 12.9       | ZNM    | 14304871    |

\*Thin Head (Fiat 10356/30)

& Do not use for new designs after 01OCT2011

(Hydrogen assisted Cracking – HAC

^ Chemical lock per IFI 525; ND Microspheres 593S (Blue) or Precote 85; Minimum of 5 pitches, entire circumference starting 2 pitches from end.

**TABLE 4: Hex Socket Head Screws Non-Preferred (Continued)**

| Dia | Pitch | Length | Threads | Material | Finish | Part Number |
|-----|-------|--------|---------|----------|--------|-------------|
| 6   | 1     | 55     |         | 10.9     | ZND    | 725390      |
| 6   | 1     | 60     |         | 8.8      | DAC    | 14303824    |
| 6   | 1     | 60     |         | 10.9     | DAC    | 14303834    |
| 6   | 1     | 60     | FULL    | 8.8      | ZND    | 92847390    |
| 6   | 1     | 60     | FULL    | 12.9     | BLO    | 86512137    |
| &6  | 1     | 60     | FULL    | 12.9     | ZND    | 9845044     |
| 6   | 1     | 65     |         | 8.8      | ZND    | 4154956     |
| 6   | 1     | 70     |         | 8.8      | ZND    | 14303921    |
| 6   | 1     | 70     |         | 10.9     | ZND    | 14303931    |
| 6   | 1     | 75     |         | 8.8      | ZND    | 87016480    |
| 6   | 1     | 80     |         | 10.9     | ZND    | 2929666     |
| 6   | 1     | 80     | FULL    | 8.8      | ZND    | 87016481    |
| ^6  | 1     | 100    |         | 8.8      | ZND    | 90358310    |
| 6   | 1     | 100    | FULL    | 12.9     | BLO    | 87040715    |
| 6   | 1     | 105    |         | 8.8      | ZND    | 91785107    |
| 6   | 1     | 140    |         | 8.8      | ZND    | 48061005    |
| 8   | 1     | 16     | FULL    | 12.9     | BLO    | 92759242    |
| 8   | 1     | 40     |         | 8.8      | ZN     | 84593998    |
| 8   | 1.25  | 10     | FULL    | 8.8      | PHC    | 87035490    |
| 8   | 1.25  | 10     | FULL    | 10.9     | ZND    | 14301931    |
| 8   | 1.25  | 10     | FULL    | 8.8      | BGM    | 51672245    |
| 8   | 1.25  | 12     | FULL    | 8.8      | PLN    | 14306120    |
| 8   | 1.25  | 12     | FULL    | 8.8      | BLO    | 412697      |
| 8   | 1.25  | 12     | FULL    | 8.8      | ZND    | 14306121    |
| 8   | 1.25  | 12     | FULL    | 8.8      | DAC    | 14306124    |
| 8   | 1.25  | 12     | FULL    | 10.9     | DAC    | 14306134    |
| 8   | 1.25  | 14     | FULL    | 8.8      | DAC    | 14307024    |
| 8   | 1.25  | 16     | FULL    | 8.8      | BLO    | 84012852    |
| 8   | 1.25  | 16     | FULL    | 8.8      | DAC    | 14306224    |
| 8   | 1.25  | 16     | FULL    | 10.9     | DAC    | 14306234    |
| 8   | 1.25  | 16     | FULL    | 10.9     | ZND    | 14306231    |
| *8  | 1.25  | 16     | FULL    | 8.8      | ZND    | 48043107    |
| *8  | 1.25  | 16     | FULL    | 10.9     | PLN    | 13028330    |
| ^8  | 1.25  | 16     | FULL    | 8.8      | ZND    | 48065388    |
| 8   | 1.25  | 18     | FULL    | 8.8      | PLN    | 14302820    |
| 8   | 1.25  | 18     | FULL    | 8.8      | ZND    | 14302821    |
| 8   | 1.25  | 18     | FULL    | 8.8      | DAC    | 14302824    |
| 8   | 1.25  | 18     | FULL    | 10.9     | ZND    | 14302831    |
| 8   | 1.25  | 20     | FULL    | 8.8      | BGM    | 92088135    |
| 8   | 1.25  | 20     | FULL    | 8.8      | PLN    | 14306320    |
| 8   | 1.25  | 20     | FULL    | 8.8      | DAC    | 14306324    |
| *8  | 1.25  | 20     | FULL    | 8.8      | DAC    | 13028524    |

| Dia | Pitch | Length | Threads | Material | Finish | Part Number |
|-----|-------|--------|---------|----------|--------|-------------|
| *8  | 1.25  | 20     | FULL    | 8.8      | PHC    | 47361879    |
| 8   | 1.25  | 20     | FULL    | 10.9     | ZND    | 14306331    |
| *8  | 1.25  | 20     | FULL    | 10.9     | DAC    | 13028534    |
| 8   | 1.25  | 20     | FULL    | 10.9     | BLO    | 14306330    |
| 8   | 1.25  | 20     | FULL    | SST      | PLN    | 47375987    |
| 8   | 1.25  | 22     | FULL    | 8.8      | PLN    | 14359220    |
| 8   | 1.25  | 22     | FULL    | 8.8      | DAC    | 14359224    |
| 8   | 1.25  | 22     | FULL    | 10.9     | ZND    | 14359231    |
| 8   | 1.25  | 25     | FULL    | 8.8      | BGM    | 92088136    |
| 8   | 1.25  | 25     | FULL    | 8.8      | BLO    | 120163      |
| 8   | 1.25  | 25     | FULL    | 8.8      | BZN    | 47468251    |
| 8   | 1.25  | 25     | FULL    | 8.8      | DAC    | 14306424    |
| *8  | 1.25  | 25     | FULL    | 8.8      | DAC    | 13028724    |
| 8   | 1.25  | 25     | FULL    | 10.9     | DAC    | 14306434    |
| 8   | 1.25  | 25     | FULL    | 10.9     | ZND    | 14306431    |
| ^8  | 1.25  | 25     | FULL    | 8.8      | ZND    | 48065389    |
| 8   | 1.25  | 30     | FULL    | 8.8      | PLN    | 14306520    |
| 8   | 1.25  | 30     | FULL    | 8.8      | DAC    | 14306524    |
| ^8  | 1.25  | 30     | FULL    | 8.8      | ZND    | 90427202    |
| 8   | 1.25  | 30     | FULL    | 10.9     | PHC    | 84158489    |
| 8   | 1.25  | 30     | FULL    | 10.9     | ZND    | 14306531    |
| 8   | 1.25  | 30     | FULL    | A2-70    | PLN    | 47842520    |
| 8   | 1.25  | 30     | FULL    | 12.9     | DAC    | 14306574    |
| 8   | 1.25  | 30     | FULL    | 12.9     | PLN    | 14306570    |
| 8   | 1.25  | 35     | FULL    | 8.8      | DAC    | 14306624    |
| 8   | 1.25  | 35     | FULL    | 10.9     | ZND    | 14306631    |
| 8   | 1.25  | 35     | FULL    | 10.9     | DAC    | 14306634    |
| ^8  | 1.25  | 35     | FULL    | 10.9     | ZND    | 51495270    |
| &8  | 1.25  | 35     | FULL    | 12.9     | ZND    | 14306671    |
| 8   | 1.25  | 35     | FULL    | 12.9     | BLO    | 87481398    |
| 8   | 1.25  | 40     | FULL    | 8.8      | DAC    | 14306724    |
| 8   | 1.25  | 40     | FULL    | 10.9     | ZND    | 14306731    |
| 8   | 1.25  | 40     | FULL    | 10.9     | DAC    | 14306734    |
| 8   | 1.25  | 45     | FULL    | 8.8      | DAC    | 14306824    |
| 8   | 1.25  | 45     | FULL    | 10.9     | ZND    | 14306831    |
| 8   | 1.25  | 45     |         | 12.9     | DAC    | 92662674    |

\*Thin Head (Fiat 10356/30)

& Do not use for new designs after 01OCT2011

(Hydrogen assisted Cracking – HAC)

@ Per Iveco 11-0141

^ Chemical lock per IFI 525; ND Microspheres 593S (Blue) or Precote 85; Minimum of 5 pitches, entire circumference starting 2 pitches from end.

**TABLE 4: Hex Socket Head Screws Non-Preferred (Continued)**

| Dia | Pitch | Length | Threads | Material | Finish    | Part Number |
|-----|-------|--------|---------|----------|-----------|-------------|
| 8   | 1.25  | 50     | FULL    | 8.8      | PLN       | 14306920    |
| 8   | 1.25  | 50     | FULL    | 8.8      | ZND       | 73170457    |
| 8   | 1.25  | 50     | FULL    | 8.8      | BGM       | 92760682    |
| 8   | 1.25  | 50     |         | 8.8      | BGM       | 92092875    |
| 8   | 1.25  | 50     |         | 8.8      | DAC       | 14306924    |
| 8   | 1.25  | 50     |         | R10      | GEO 321-5 | 16707734 @  |
| 8   | 1.25  | 50     | FULL    | 10.9     | ZND       | 14306931    |
| 8   | 1.25  | 50     | FULL    | 12.9     | DAC       | 14306974    |
| 8   | 1.25  | 55     | FULL    | 8.8      | DAC       | 14302224    |
| 8   | 1.25  | 55     | FULL    | 8.8      | BGM       | 14302226    |
| 8   | 1.25  | 55     | FULL    | 10.9     | DAC       | 14302234    |
| 8   | 1.25  | 60     |         | 8.8      | DAC       | 14308924    |
| 8   | 1.25  | 60     |         | 10.9     | ZND       | 14308931    |
| 8   | 1.25  | 60     |         | 10.9     | DAC       | 14308934    |
| ^8  | 1.25  | 60     |         | 10.9     | ZND       | 91833922    |
| ^8  | 1.25  | 60     | FULL    | 12.9     | PHC       | 92316054    |
| 8   | 1.25  | 65     |         | 10.9     | ZND       | 2900720     |
| 8   | 1.25  | 70     |         | 10.9     | DAC       | 14309034    |
| &*8 | 1.25  | 70     |         | 12.9     | ZND       | 14309071    |
| 8   | 1.25  | 75     |         | 12.9     | DAC       | 92662670    |
| 8   | 1.25  | 80     |         | 12.9     | PLN       | 14359570    |
| ^8  | 1.25  | 80     |         | 10.9     | ZND       | 91833923    |
| 8   | 1.25  | 85     |         | 8.8      | DOR       | 87376812    |
| 8   | 1.25  | 90     |         | 8.8      | BLO       | 47479553    |
| 8   | 1.25  | 90     |         | 8.8      | ZND       | 1960667     |
| 8   | 1.25  | 90     | 28      | 8.8      | DAC       | 14307124    |
| 8   | 1.25  | 90     | 28      | 10.9     | DAC       | 14307134    |
| 8   | 1.25  | 100    |         | 8.8      | DAC       | 14302124    |
| 8   | 1.25  | 100    |         | 8.8      | ZND       | 14302121    |
| 8   | 1.25  | 120    |         | 12.9     | BLO       | 86528452    |
| 8   | 1.25  | 130    |         | 12.9     | BLO       | 87675527    |
| 8   | 1.25  | 150    |         | 8.8      | ZND       | 218457      |
| 10  | 1     | 25     |         | 8.8      | ZND       | 47625598    |
| 10  | 1     | 50     |         | 8.8      | ZND       | 47444625    |
| 10  | 1     | 75     |         | 8.8      | ZND       | 47738549    |
| 10  | 1     | 80     |         | 8.8      | ZND       | 92252038    |
| 10  | 1     | 100    |         | 12.9     | BLO       | 92115269    |
| 10  | 1     | 100    |         | 12.9     | DOR       | 92312703    |
| 10  | 1     | 130    |         | 12.9     | PHC       | 84158488    |
| 10  | 1.25  | 16     | FULL    | 8.8      | ZND       | 91819711    |
| 10  | 1.25  | 16     | FULL    | 8.8      | DAC       | 14359924    |

| Dia | Pitch | Length | Threads | Material | Finish | Part Number |
|-----|-------|--------|---------|----------|--------|-------------|
| 10  | 1.25  | 18     | FULL    | 8.8      | DAC    | 14360024    |
| &10 | 1.25  | 18     | FULL    | 12.9     | ZND    | 14360071    |
| 10  | 1.25  | 20     | FULL    | 8.8      | DAC    | 14307324    |
| #10 | 1.25  | 20     | FULL    | 8.8      | DAC    | 14833324    |
| 10  | 1.25  | 20     | FULL    | 8.8      | ZND    | 14307321    |
| 10  | 1.25  | 20     | FULL    | 12.9     | DAC    | 14307374    |
| 10  | 1.25  | 22     | FULL    | 8.8      | DAC    | 14360124    |
| 10  | 1.25  | 22     | FULL    | 8.8      | ZND    | 14360121    |
| *10 | 1.25  | 22     | FULL    | 8.8      | ZND    | 13030421    |
| 10  | 1.25  | 25     | FULL    | 8.8      | DAC    | 14307424    |
| 10  | 1.25  | 25     | FULL    | 8.8      | ZND    | 86544072    |
| 10  | 1.25  | 25     | FULL    | 8.8      | PLN    | 14307420    |
| 10  | 1.25  | 25     | FULL    | 10.9     | ZND    | 14307431    |
| 10  | 1.25  | 25     | FULL    | A2-70    | PLN    | 84465304    |
| 10  | 1.25  | 30     | FULL    | 8.8      | DAC    | 14307524    |
| #10 | 1.25  | 30     | FULL    | 8.8      | DAC    | 14833624    |
| *10 | 1.25  | 30     | FULL    | 8.8      | PLN    | 13030620    |
| *10 | 1.25  | 30     | FULL    | 8.8      | DAC    | 13030624    |
| 10  | 1.25  | 30     | FULL    | 8.8      | ZND    | 14307521    |
| 10  | 1.25  | 30     | FULL    | 10.9     | DAC    | 14307534    |
| #10 | 1.25  | 30     | FULL    | 10.9     | DAC    | 14833634    |
| 10  | 1.25  | 30     | FULL    | 10.9     | ZND    | 14307531    |
| 10  | 1.25  | 30     | FULL    | 12.9     | DOR    | 87343636    |
| 10  | 1.25  | 35     | FULL    | 8.8      | PLN    | 14307620    |
| 10  | 1.25  | 35     | FULL    | 8.8      | DAC    | 14307624    |
| 10  | 1.25  | 35     | FULL    | 10.9     | DAC    | 14307634    |
| 10  | 1.25  | 35     | FULL    | 8.8      | ZND    | 14307621    |
| 10  | 1.25  | 35     | FULL    | 10.9     | PLN    | 14307630    |
| 10  | 1.25  | 40     | FULL    | 8.8      | DAC    | 14307724    |
| 10  | 1.25  | 40     | FULL    | 10.9     | DAC    | 14307734    |
| 10  | 1.25  | 40     | FULL    | 10.9     | ZND    | 14307731    |
| 10  | 1.25  | 45     |         | 8.8      | ZND    | 14307821    |
| 10  | 1.25  | 45     |         | 8.8      | DAC    | 14307824    |
| 10  | 1.25  | 45     |         | 10.9     | DAC    | 14307834    |
| 10  | 1.25  | 50     |         | 10.9     | ZND    | 14307931    |

\*Thin Head (Fiat 10356/30)

# Severe application per Fiat 10356/04

& Do not use for new designs after 01OCT2011

(Hydrogen assisted Cracking – HAC

@ Per Iveco 11-0141

^ Chemical lock per IFI 525; ND Microspheres 593S (Blue) or Precote 85; Minimum of 5 pitches, entire circumference starting 2 pitches from end.

**TABLE 4: Hex Socket Head Screws Non-Preferred (Continued)**

| Dia | Pitch | Length | Threads | Material | Finish | Part Number |
|-----|-------|--------|---------|----------|--------|-------------|
| 10  | 1.25  | 50     |         | 8.8      | ZND    | 14307921    |
| 10  | 1.25  | 55     |         | 8.8      | ZND    | 14308021    |
| *10 | 1.25  | 55     |         | 8.8      | ZND    | 13030721    |
| 10  | 1.25  | 55     |         | 10.9     | ZND    | 14308031    |
| 10  | 1.25  | 55     |         | 12.9     | DAC    | 91818218    |
| 10  | 1.25  | 60     |         | 8.8      | PLN    | 14308120    |
| 10  | 1.25  | 60     |         | 8.8      | ZND    | 14308121    |
| 10  | 1.25  | 60     |         | 10.9     | ZND    | 14308131    |
| 10  | 1.25  | 65     |         | 8.8      | DAC    | 14308224    |
| 10  | 1.25  | 65     |         | 8.8      | ZND    | 14308221    |
| 10  | 1.25  | 65     |         | 10.9     | ZND    | 14308231    |
| 10  | 1.25  | 65     | FULL    | 10.9     | ZND    | 47875143    |
| 10  | 1.25  | 70     |         | 8.8      | DAC    | 14308324    |
| 10  | 1.25  | 70     |         | 8.8      | ZND    | 14308321    |
| 10  | 1.25  | 75     |         | 8.8      | DAC    | 14309124    |
| 10  | 1.25  | 80     |         | 8.8      | DAC    | 14308424    |
| 10  | 1.25  | 80     |         | 8.8      | ZND    | 14308421    |
| 10  | 1.25  | 90     |         | 8.8      | ZND    | 14308521    |
| 10  | 1.25  | 100    |         | 10.9     | DAC    | 47948197    |
| 10  | 1.25  | 110    |         | 8.8      | ZND    | 90451201    |
| 10  | 1.25  | 120    |         | 8.8      | ZND    | 14360221    |
| 10  | 1.5   | 15     | FULL    | 12.9     | BZN    | 47523573    |
| 10  | 1.5   | 16     | FULL    | 8.8      | DAC    | 14301824    |
| ^10 | 1.5   | 16     | FULL    | 8.8      | ZND    | 47535152    |
| 10  | 1.5   | 16     | FULL    | 10.9     | BZN    | 47541405    |
| 10  | 1.5   | 16     | FULL    | 10.9     | ZND    | 14301831    |
| 10  | 1.5   | 18     | FULL    | 8.8      | DAC    | 14362124    |
| 10  | 1.5   | 20     | FULL    | 8.8      | DAC    | 14420024    |
| 10  | 1.5   | 20     | FULL    | 10.9     | PLN    | 14420030    |
| 10  | 1.5   | 20     | FULL    | 10.9     | ZND    | 14420031    |
| 10  | 1.5   | 20     | FULL    | 10.9     | PHC    | 14420033    |
| 10  | 1.5   | 20     | FULL    | 10.9     | DAC    | 14420034    |
| 10  | 1.5   | 20     | FULL    | 12.9     | PLN    | 14420070    |
| 10  | 1.5   | 20     | FULL    | 12.9     | DAC    | 14420074    |
| 10  | 1.5   | 22     | FULL    | 10.9     | DAC    | 14432334    |
| &10 | 1.5   | 22     | FULL    | 12.9     | ZND    | 86559251    |
| 10  | 1.5   | 25     | FULL    | 8.8      | BGM    | 92139034    |
| 10  | 1.5   | 25     | FULL    | 8.8      | DAC    | 14420124    |
| ^10 | 1.5   | 25     | FULL    | 8.8      | ZND    | 51672202    |
| 10  | 1.5   | 25     | FULL    | 10.9     | ZND    | 14420131    |
| 10  | 1.5   | 25     | FULL    | 10.9     | DAC    | 14420134    |
| 10  | 1.5   | 25     | FULL    | 12.9     | DAC    | 14420174    |

| Dia | Pitch | Length | Threads | Material | Finish | Part Number |
|-----|-------|--------|---------|----------|--------|-------------|
| ^10 | 1.5   | 30     | FULL    | 8.8      | ZND    | 90358311    |
| 10  | 1.5   | 30     | FULL    | 10.9     | PLN    | 14420230    |
| 10  | 1.5   | 30     | FULL    | 10.9     | ZND    | 14420231    |
| 10  | 1.5   | 30     | FULL    | 10.9     | DAC    | 14420234    |
| 10  | 1.5   | 30     | FULL    | A4-70    | PLN    | 48077938    |
| &10 | 1.5   | 30     | FULL    | 12.9     | ZND    | 14420271    |
| 10  | 1.5   | 30     | FULL    | 12.9     | DAC    | 14420274    |
| ^10 | 1.5   | 35     | FULL    | 8.8      | ZND    | 47855101    |
| 10  | 1.5   | 35     | FULL    | 10.9     | ZND    | 14420331    |
| 10  | 1.5   | 35     | FULL    | 10.9     | DAC    | 14420334    |
| 10  | 1.5   | 35     | FULL    | 10.9     | PHC    | 47622570    |
| ^10 | 1.5   | 35     | FULL    | 12.9     | PHC    | 92316055    |
| &10 | 1.5   | 35     | FULL    | 12.9     | ZND    | 86625210    |
| 10  | 1.5   | 35     | FULL    | 12.9     | DAC    | 14420374    |
| ^10 | 1.5   | 40     | FULL    | 8.8      | ZND    | 90358312    |
| 10  | 1.5   | 40     | FULL    | 10.9     | ZND    | 14420431    |
| 10  | 1.5   | 40     | FULL    | 10.9     | DAC    | 14420434    |
| &10 | 1.5   | 40     | FULL    | 12.9     | ZND    | 14420471    |
| ^10 | 1.5   | 45     |         | 8.8      | ZND    | 91724944    |
| 10  | 1.5   | 45     |         | 10.9     | ZND    | 14420531    |
| ^10 | 1.5   | 45     | FULL    | 12.9     | PHC    | 92316056    |
| &10 | 1.5   | 45     |         | 12.9     | ZND    | 14420571    |
| 10  | 1.5   | 45     |         | 12.9     | DAC    | 14420574    |
| 10  | 1.5   | 50     |         | 8.8      | PLN    | 14420620    |
| ^10 | 1.5   | 50     |         | 8.8      | ZND    | 47738527    |
| 10  | 1.5   | 50     |         | 10.9     | ZND    | 14420631    |
| &10 | 1.5   | 50     | FULL    | 12.9     | ZND    | 86019361    |
| 10  | 1.5   | 55     |         | 10.9     | DAC    | 14420734    |
| 10  | 1.5   | 55     |         | 10.9     | ZND    | 14420731    |
| ^10 | 1.5   | 55     | FULL    | 12.9     | PHC    | 92316057    |
| 10  | 1.5   | 55     |         | 12.9     | DAC    | 14420774    |
| 10  | 1.5   | 60     |         | 10.9     | DAC    | 14420834    |
| 10  | 1.5   | 60     |         | 10.9     | ZND    | 14420831    |
| 10  | 1.5   | 60     |         | 12.9     | DAC    | 14420874    |
| ^10 | 1.5   | 65     |         | 8.8      | ZND    | 90434050    |
| 10  | 1.5   | 65     |         | 10.9     | DAC    | 14420934    |

\* Thin Head (Fiat 10356/30)

& Do not use for new designs after 01OCT2011 (Hydrogen assisted Cracking – HAC)

^ Chemical lock per IFI 525; ND Microspheres 593S (Blue) or Precote 85; Minimum of 5 pitches, entire circumference starting 2 pitches from end.

**TABLE 4: Hex Socket Head Screws Non-Preferred (Continued)**

| Dia | Pitch | Length | Threads | Material | Finish | Part Number |
|-----|-------|--------|---------|----------|--------|-------------|
| 10  | 1.5   | 65     |         | 10.9     | ZND    | 2292316     |
| 10  | 1.5   | 70     |         | 10.9     | PHC    | 47766762    |
| 10  | 1.5   | 70     |         | 10.9     | ZND    | 14421031    |
| 10  | 1.5   | 70     |         | 12.9     | DAC    | 92662662    |
| ^10 | 1.5   | 75     |         | 8.8      | ZND    | 90431707    |
| ^10 | 1.5   | 80     |         | 8.8      | ZND    | 91769804    |
| 10  | 1.5   | 80     |         | 10.9     | DAC    | 14421134    |
| 10  | 1.5   | 80     |         | 12.9     | DOR    | 84549789    |
| 10  | 1.5   | 85     | FULL    | 10.9     | ZND    | 2426021     |
| 10  | 1.5   | 90     |         | 10.9     | ZND    | 14421231    |
| 10  | 1.5   | 90     |         | 8.8      | DAC    | 92668288    |
| 10  | 1.5   | 100    |         | 10.9     | ZND    | 14421431    |
| 10  | 1.5   | 100    |         | 12.9     | DOR    | 84557167    |
| &10 | 1.5   | 100    | FULL    | 12.9     | ZNM    | 84983116    |
| 10  | 1.5   | 105    |         | 10.9     | PHC    | 51672237    |
| 10  | 1.5   | 110    |         | 10.9     | DAC    | 14421534    |
| &10 | 1.5   | 110    |         | 12.9     | ZND    | 14421531    |
| 10  | 1.5   | 120    |         | 8.8      | ZND    | 47443535    |
| 10  | 1.5   | 125    |         | 10.9     | ZND    | 73178033    |
| 10  | 1.5   | 130    |         | 12.9     | PLN    | 14421670    |
| 10  | 1.5   | 145    |         | 10.9     | ZND    | 84256618    |
| 12  | 1.25  | 20     | FULL    | 8.8      | DAC    | 14360524    |
| 12  | 1.25  | 20     | FULL    | 12.9     | DAC    | 84603135    |
| 12  | 1.25  | 25     | FULL    | 8.8      | DAC    | 14331024    |
| 12  | 1.25  | 25     | FULL    | 10.9     | DAC    | 14331034    |
| *12 | 1.25  | 25     | FULL    | 10.9     | DAC    | 84467158    |
| *12 | 1.25  | 25     | FULL    | 8.8      | DAC    | 84388497    |
| 12  | 1.25  | 25     | FULL    | 8.8      | ZND    | 14331021    |
| 12  | 1.25  | 30     | FULL    | 8.8      | DAC    | 14331124    |
| 12  | 1.25  | 30     | FULL    | 8.8      | ZND    | 14331121    |
| 12  | 1.25  | 30     | FULL    | 10.9     | DAC    | 48183519    |
| 12  | 1.25  | 35     | FULL    | 8.8      | PLN    | 14331220    |
| 12  | 1.25  | 35     | FULL    | 8.8      | ZND    | 84411965    |
| 12  | 1.25  | 35     | FULL    | 8.8      | DAC    | 14331224    |
| 12  | 1.25  | 35     | FULL    | 10.9     | DAC    | 14331234    |
| 12  | 1.25  | 35     | FULL    | 10.9     | ZND    | 14331231    |
| 12  | 1.25  | 40     | FULL    | 8.8      | BLO    | 84039422    |
| 12  | 1.25  | 40     | FULL    | 8.8      | ZND    | 14331321    |
| 12  | 1.25  | 40     | FULL    | 10.9     | DAC    | 14331334    |
| 12  | 1.25  | 40     | FULL    | 10.9     | PLN    | 14331330    |
| 12  | 1.25  | 45     | FULL    | 8.8      | ZND    | 14331421    |
| 12  | 1.25  | 45     | FULL    | 8.8      | DAC    | 14331424    |

| Dia | Pitch | Length | Threads | Material | Finish | Part Number |
|-----|-------|--------|---------|----------|--------|-------------|
| 12  | 1.25  | 45     | FULL    | 10.9     | DAC    | 14331434    |
| 12  | 1.25  | 50     | FULL    | 8.8      | PLN    | 14331520    |
| 12  | 1.25  | 50     | FULL    | 8.8      | ZND    | 14331521    |
| 12  | 1.25  | 55     | FULL    | 8.8      | ZND    | 14331621    |
| 12  | 1.25  | 60     | FULL    | 8.8      | ZND    | 14331721    |
| 12  | 1.25  | 60     | FULL    | 10.9     | DAC    | 92092926    |
| 12  | 1.25  | 70     |         | 8.8      | ZND    | 14331921    |
| 12  | 1.25  | 70     | FULL    | 12.9     | DAC    | 47851209    |
| ^12 | 1.25  | 75     |         | 8.8      | DAC    | 92130081    |
| 12  | 1.25  | 75     |         | 8.8      | ZND    | 14332021    |
| 12  | 1.25  | 75     |         | 10.9     | DAC    | 47924530    |
| 12  | 1.25  | 80     |         | 8.8      | ZND    | 14332121    |
| 12  | 1.25  | 90     |         | 12.9     | PHC    | 87675516    |
| #12 | 1.25  | 90     |         | 10.9     | DAC    | 14837434    |
| 12  | 1.25  | 100    |         | 8.8      | ZND    | 14332521    |
| #12 | 1.25  | 100    |         | 10.9     | DAC    | 14837534    |
| 12  | 1.25  | 110    |         | 8.8      | PLN    | 14332620    |
| 12  | 1.25  | 110    |         | 8.8      | ZND    | 14332621    |
| #12 | 1.25  | 110    |         | 10.9     | DAC    | 14837634    |
| 12  | 1.25  | 110    |         | 8.8      | DAC    | 14332624    |
| 12  | 1.25  | 120    |         | 8.8      | DAC    | 14332724    |
| ^12 | 1.25  | 120    |         | 8.8      | DAC    | 92130082    |
| 12  | 1.25  | 120    |         | 10.9     | DAC    | 14332734    |
| #12 | 1.25  | 120    |         | 10.9     | DAC    | 14837734    |
| 12  | 1.25  | 130    |         | 10.9     | DAC    | 14332834    |
| 12  | 1.25  | 140    |         | 8.8      | ZND    | 14332921    |
| 12  | 1.5   | 25     | FULL    | 8.8      | ZND    | 14309421    |
| 12  | 1.5   | 25     | FULL    | 10.9     | ZND    | 14309431    |
| 12  | 1.5   | 35     | FULL    | 10.9     | ZND    | 14309631    |
| 12  | 1.5   | 75     |         | 8.8      | ZND    | 47886407    |
| 12  | 1.75  | 20     | FULL    | 8.8      | DAC    | 14432424    |
| 12  | 1.75  | 25     | FULL    | 8.8      | DAC    | 14311024    |
| *12 | 1.75  | 25     | FULL    | 8.8      | ZND    | 153014      |
| 12  | 1.75  | 25     | FULL    | 10.9     | ZND    | 14311031    |
| 12  | 1.75  | 25     | FULL    | 10.9     | DAC    | 14311034    |

\* Thin Head (Fiat 10356/30)

# Severe application per Fiat 10356/04

& Do not use for new designs after 01OCT2011 (Hydrogen assisted Cracking – HAC)

^ Chemical lock per IFI 525; ND Microspheres 593S (Blue) or Precote 85; Minimum of 5 pitches, entire circumference starting 2 pitches from end.

**TABLE 4: Hex Socket Head Screws Non-Preferred (Continued)**

| Dia | Pitch | Length | Threads | Material | Finish  | Part Number |
|-----|-------|--------|---------|----------|---------|-------------|
| 12  | 1.75  | 25     | FULL    | 12.9     | DAC     | 48135662    |
| 12  | 1.75  | 30     | FULL    | 8.8      | PLN     | 14422020    |
| 12  | 1.75  | 30     | FULL    | 10.9     | DAC     | 14422034    |
| 12  | 1.75  | 30     | FULL    | 10.9     | PHC     | 84516721    |
| 12  | 1.75  | 30     | 25      | 10.9     | ZND     | 84021936    |
| 12  | 1.75  | 30     | FULL    | 10.9     | ZND     | 14422031    |
| ^12 | 1.75  | 30     | FULL    | 10.9     | ZND     | 90469704    |
| 12  | 1.75  | 35     | FULL    | 8.8      | PLN     | 14422120    |
| ^12 | 1.75  | 35     | FULL    | 8.8      | ZND     | 90358313    |
| 12  | 1.75  | 35     | FULL    | 10.9     | DAC     | 14422134    |
| 12  | 1.75  | 35     | FULL    | 10.9     | ZND     | 14422131    |
| 12  | 1.75  | 35     | FULL    | 12.9     | DAC     | 14422174    |
| 12  | 1.75  | 40     |         | 10.9     | PHC     | 84522380    |
| 12  | 1.75  | 40     | FULL    | 10.9     | DAC     | 14422234    |
| 12  | 1.75  | 40     | FULL    | 10.9     | ZND     | 14422231    |
| 12  | 1.75  | 40     | FULL    | 12.9     | HCRC-4A | 51449792    |
| &12 | 1.75  | 40     | FULL    | 12.9     | ZND     | 84346526    |
| *12 | 1.75  | 45     | FULL    | 8.8      | ZND     | 591283      |
| 12  | 1.75  | 45     | FULL    | 10.9     | DAC     | 14422334    |
| 12  | 1.75  | 45     | FULL    | 10.9     | ZND     | 14422331    |
| &12 | 1.75  | 45     | FULL    | 12.9     | ZND     | 84346527    |
| 12  | 1.75  | 45     | FULL    | 12.9     | DAC     | 14422374    |
| 12  | 1.75  | 50     | FULL    | 10.9     | DAC     | 14422434    |
| 12  | 1.75  | 50     | FULL    | 10.9     | ZND     | 14422431    |
| ^12 | 1.75  | 50     | FULL    | 10.9     | ZND     | 92145879    |
| 12  | 1.75  | 50     | 36      | 12.9     | DAC     | 48135065    |
| 12  | 1.75  | 55     | FULL    | 10.9     | ZND     | 14422531    |
| ^12 | 1.75  | 55     | FULL    | 10.9     | ZND     | 92145880    |
| 12  | 1.75  | 60     | FULL    | 10.9     | DAC     | 14422634    |
| 12  | 1.75  | 65     | FULL    | 8.8      | BLO     | 81868092    |
| 12  | 1.75  | 65     | FULL    | 10.9     | BLO     | 6220227     |
| 12  | 1.75  | 70     |         | 10.9     | PHC     | 84319918    |
| 12  | 1.75  | 70     | FULL    | 10.9     | ZND     | 47979813    |
| 12  | 1.75  | 70     | FULL    | 12.9     | BLO     | 86512143    |
| 12  | 1.75  | 75     |         | 10.9     | DAC     | 14422934    |
| ^12 | 1.75  | 80     |         | 8.8      | ZND     | 90427212    |
| 12  | 1.75  | 80     |         | 10.9     | ZND     | 14423031    |
| 12  | 1.75  | 80     | FULL    | 12.9     | BLO     | 86575419    |
| 12  | 1.75  | 80     |         | 12.9     | DOR     | 47379702    |
| 12  | 1.75  | 90     |         | 10.9     | ZND     | 14423231    |

| Dia | Pitch | Length | Threads | Material | Finish | Part Number |
|-----|-------|--------|---------|----------|--------|-------------|
| 12  | 1.75  | 90     | FULL    | 12.9     | BLO    | 44555       |
| 12  | 1.75  | 95     |         | 8.8      | BLO    | 87635857    |
| 12  | 1.75  | 100    | FULL    | 8.8      | ZND    | 87485004    |
| 12  | 1.75  | 100    | FULL    | 12.9     | BLO    | 86516013    |
| 12  | 1.75  | 100    | FULL    | 12.9     | DAC    | 90369276    |
| &12 | 1.75  | 100    | FULL    | 12.9     | ZND    | 87645499    |
| 12  | 1.75  | 110    |         | 10.9     | DAC    | 14423534    |
| 12  | 1.75  | 110    |         | 12.9     | PHC    | 2465667     |
| &12 | 1.75  | 110    |         | 12.9     | ZND    | 84281050    |
| 12  | 1.75  | 130    |         | 8.8      | ZND    | 86625211    |
| 12  | 1.75  | 150    |         | 10.9     | ZND    | 2292572     |
| 12  | 1.75  | 150    |         | 12.9     | PHC    | 86837481    |
| 14  | 1.5   | 30     | FULL    | 8.8      | ZND    | 47496465    |
| 14  | 1.5   | 35     | FULL    | 8.8      | DAC    | 14311624    |
| 14  | 1.5   | 40     | FULL    | 8.8      | ZND    | 14311721    |
| 14  | 1.5   | 45     |         | 8.8      | DAC    | 14311824    |
| 14  | 1.5   | 45     |         | 10.9     | DAC    | 51615882    |
| 14  | 1.5   | 50     |         | 10.9     | ZND    | 87742341    |
| *14 | 1.5   | 60     |         | 8.8      | DAC    | 13031224    |
| *14 | 1.5   | 60     |         | 10.9     | DAC    | 13031234    |
| 14  | 1.5   | 100    |         | 10.9     | ZND    | 87733388    |
| 14  | 1.5   | 100    |         | 12.9     | DAC    | 51464525    |
| 14  | 1.5   | 110    |         | 10.9     | BGM    | 90363775    |
| 14  | 1.5   | 120    |         | 10.9     | ZND    | 87733389    |
| 14  | 1.5   | 120    |         | 12.9     | DAC    | 51422191    |
| 14  | 1.5   | 165    |         | 10.9     | ZND    | 87477165    |
| 14  | 2     | 20     | FULL    | 8.8      | ZND    | 84405131    |
| 14  | 2     | 25     | FULL    | 8.8      | ZND    | 84364043    |
| 14  | 2     | 30     | FULL    | 8.8      | DAC    | 14433224    |
| 14  | 2     | 30     | FULL    | 12.9     | PHC    | 84479324    |
| 14  | 2     | 35     | FULL    | 10.9     | DAC    | 14432534    |
| 14  | 2     | 45     | FULL    | 8.8      | ZND    | 14313221    |
| 14  | 2     | 45     | FULL    | 10.9     | ZND    | 14313231    |

\* Thin Head (Fiat 10356/30)

& Do not use for new designs after 01OCT2011 (Hydrogen assisted Cracking – HAC)

^ Chemical lock per IFI 525; ND Microspheres 593S (Blue) or Precote 85; Minimum of 5 pitches, entire circumference starting 2 pitches from end.

**TABLE 4: Hex Socket Head Screws Non-Preferred (Continued)**

| Dia | Pitch | Length | Threads | Material | Finish | Part Number |
|-----|-------|--------|---------|----------|--------|-------------|
| 14  | 2     | 45     | FULL    | 12.9     | PHC    | 84479756    |
| 14  | 2     | 50     | FULL    | 10.9     | ZND    | 14424531    |
| 14  | 2     | 50     | FULL    | 10.9     | DAC    | 14424534    |
| 14  | 2     | 55     | FULL    | 10.9     | ZND    | 87316168    |
| 14  | 2     | 60     | FULL    | 10.9     | DAC    | 14424634    |
| 14  | 2     | 60     | FULL    | 12.9     | DAC    | 47628834    |
| 14  | 2     | 65     |         | 12.9     | DAC    | 14433374    |
| 14  | 2     | 70     |         | 10.9     | ZND    | 92271843    |
| 14  | 2     | 70     |         | 12.9     | PHC    | 84120587    |
| 14  | 2     | 75     | FULL    | 12.9     | PHC    | 47533339    |
| 14  | 2     | 80     |         | 12.9     | BLO    | 87605313    |
| 14  | 2     | 85     | FULL    | 12.9     | PHC    | 47509869    |
| 14  | 2     | 90     | FULL    | 8.8      | ZND    | 87490588    |
| 14  | 2     | 110    |         | 10.9     | DAC    | 51531295    |
| 14  | 2     | 120    |         | 10.9     | DAC    | 51531296    |
| 14  | 2     | 140    |         | 8.8      | ZND    | 87664189    |
| 16  | 1.5   | 25     | FULL    | 8.8      | BGM    | 91903326    |
| 16  | 1.5   | 25     | FULL    | 12.9     | PHC    | 47528104    |
| 16  | 1.5   | 30     | FULL    | 8.8      | ZND    | 14360921    |
| 16  | 1.5   | 40     | FULL    | 10.9     | DAC    | 14313734    |
| 16  | 1.5   | 40     | FULL    | 8.8      | PLN    | 14313720    |
| 16  | 1.5   | 40     | FULL    | 12.9     | DAC    | 14313774    |
| 16  | 1.5   | 45     | FULL    | 8.8      | ZND    | 87304278    |
| 16  | 1.5   | 50     | FULL    | 8.8      | DAC    | 14313924    |
| 16  | 1.5   | 60     | FULL    | 10.9     | DAC    | 14314134    |
| 16  | 1.5   | 90     |         | 8.8      | ZND    | 14314721    |
| 16  | 1.5   | 100    |         | 8.8      | ZND    | 14314821    |
| 16  | 1.5   | 120    | FULL    | 8.8      | DAC    | 14315024    |
| 16  | 1.5   | 130    |         | 10.9     | DAC    | 91801044    |
| 16  | 2     | 25     | FULL    | 8.8      | DAC    | 47657971    |
| 16  | 2     | 35     | FULL    | 10.9     | DAC    | 51461413    |
| 16  | 2     | 35     | FULL    | 10.9     | ZND    | 14426131    |
| 16  | 2     | 35     | FULL    | 12.9     | DAC    | 48061004    |
| 16  | 2     | 40     | FULL    | 8.8      | DAC    | 14426224    |
| 16  | 2     | 40     | FULL    | 10.9     | DAC    | 14426234    |
| 16  | 2     | 40     | FULL    | 10.9     | ZND    | 87303345    |
| 16  | 2     | 45     | FULL    | 8.8      | DAC    | 90424030    |
| 16  | 2     | 45     |         | 10.9     | ZND    | 87588869    |
| &16 | 2     | 45     |         | 12.9     | ZND    | 87619750    |
| ^16 | 2     | 45     |         | 12.9     | DAC    | 90397995    |
| 16  | 2     | 45     |         | 12.9     | DAC    | 48116779    |

| Dia | Pitch | Length | Threads | Material | Finish | Part Number |
|-----|-------|--------|---------|----------|--------|-------------|
| 16  | 2     | 50     | FULL    | 10.9     | PHC    | 47915368    |
| ^16 | 2     | 50     | FULL    | 10.9     | PHC    | 90358314    |
| 16  | 2     | 50     | FULL    | 10.9     | ZND    | 87524538    |
| ^16 | 2     | 50     | FULL    | 10.9     | ZND    | 92092958    |
| &16 | 2     | 50     | FULL    | 12.9     | ZND    | 9817243     |
| 16  | 2     | 50     | FULL    | 12.9     | DAC    | 51654419    |
| 16  | 2     | 55     | FULL    | 10.9     | DAC    | 51461416    |
| ^16 | 2     | 55     | FULL    | 10.9     | DAC    | 90417330    |
| 16  | 2     | 60     | FULL    | 8.8      | BGM    | 92173386    |
| 16  | 2     | 60     | FULL    | 10.9     | ZND    | 14426631    |
| 16  | 2     | 65     | FULL    | 8.8      | BZN    | 87301266    |
| 16  | 2     | 65     | FULL    | 10.9     | PHC    | 47915367    |
| 16  | 2     | 65     |         | 10.9     | ZND    | 47614820    |
| 16  | 2     | 65     |         | 10.9     | PHC    | 47928210    |
| ^16 | 2     | 65     |         | 10.9     | PHC    | 90358315    |
| 16  | 2     | 65     |         | 12.9     | PHC    | 47928219    |
| 16  | 2     | 70     |         | 10.9     | DAC    | 51461417    |
| 16  | 2     | 75     | FULL    | 12.9     | DAC    | 14426874    |
| 16  | 2     | 80     |         | 10.9     | ZND    | 47840536    |
| 16  | 2     | 80     |         | 12.9     | PHC    | 90382027    |
| 16  | 2     | 90     |         | 10.9     | DAC    | 51461420    |
| 16  | 2     | 90     | FULL    | 12.9     | BLO    | 86615905    |
| 16  | 2     | 110    |         | 10.9     | DAC    | 51461422    |
| 16  | 2     | 180    |         | 10.9     | ZND    | 90445572    |
| 18  | 1.5   | 50     | FULL    | 8.8      | ZND    | 47552139    |
| 18  | 1.5   | 50     | FULL    | 10.9     | ZND    | 91794987    |
| 18  | 1.5   | 50     | FULL    | 10.9     | DAC    | 91794989    |
| 18  | 1.5   | 55     |         | 10.9     | BGM    | 92251031    |
| 18  | 1.5   | 60     |         | 10.9     | BGM    | 92055456    |
| #18 | 1.5   | 70     |         | 10.9     | DAC    | 14844634    |
| #18 | 1.5   | 80     |         | 10.9     | DAC    | 14844834    |
| 18  | 1.5   | 100    |         | 10.9     | BGM    | 92273986    |
| 18  | 1.5   | 110    |         | 10.9     | BGM    | 92195353    |
| 18  | 1.5   | 125    |         | 10.9     | BGM    | 92195354    |
| 18  | 1.5   | 160    |         | 10.9     | DAC    | 91719935    |

# Severe application per Fiat 10356/04

& Do not use for new designs after 01OCT2011 (Hydrogen assisted Cracking – HAC)

^ Chemical lock per IFI 525; ND Microspheres 593S (Blue) or Precote 85; Minimum of 5 pitches, entire circumference starting 2 pitches from end.

**TABLE 4: Hex Socket Head Screws Non-Preferred (Continued)**

| Dia | Pitch | Length | Threads | Material | Finish | Part Number |
|-----|-------|--------|---------|----------|--------|-------------|
| 18  | 2.5   | 50     | FULL    | 12.9     | DAC    | 14428074    |
| 18  | 2.5   | 80     | FULL    | 12.9     | DAC    | 14428774    |
| 20  | 1.5   | 50     | FULL    | 10.9     | DAC    | 92166072    |
| 20  | 1.5   | 70     | FULL    | 8.8      | DAC    | 14318324    |
| 20  | 1.5   | 70     | FULL    | 10.9     | ZND    | 87303830    |
| 20  | 1.5   | 70     | FULL    | 12.9     | DOR    | 87343640    |
| 20  | 2.5   | 35     | FULL    | 8.8      | ZND    | 91701581    |
| 20  | 2.5   | 40     | FULL    | 8.8      | PTF    | 87016479    |
| 20  | 2.5   | 45     | FULL    | 8.8      | ZND    | 47850106    |
| 20  | 2.5   | 50     | FULL    | 8.8      | ZND    | 14429421    |
| 20  | 2.5   | 60     | FULL    | 10.9     | DAC    | 87301672    |
| 20  | 2.5   | 65     | FULL    | 12.9     | DAC    | 14429674    |
| 20  | 2.5   | 70     | FULL    | 8.8      | ZND    | 14429721    |
| 20  | 2.5   | 80     |         | 10.9     | BGM    | 91903327    |
| 20  | 2.5   | 80     |         | 10.9     | DAC    | 51554190    |
| 20  | 2.5   | 80     |         | 12.9     | DAC    | 14432774    |
| &20 | 2.5   | 80     |         | 12.9     | ZND    | 84233548    |
| 20  | 2.5   | 90     |         | 10.9     | ZND    | 90351142    |
| &20 | 2.5   | 90     |         | 12.9     | ZND    | 84160002    |
| 20  | 2.5   | 100    |         | 10.9     | ZND    | 51607204    |
| 20  | 2.5   | 110    |         | 10.9     | DAC    | 91819704    |
| 20  | 2.5   | 120    |         | 10.9     | ZND    | 72181694    |
| 20  | 2.5   | 120    |         | 12.9     | DAC    | 47710479    |
| 20  | 2.5   | 120    | FULL    | 12.9     | DAC    | 47715191    |
| &20 | 2.5   | 130    |         | 12.9     | ZNM    | 87733368    |
| 20  | 2.5   | 150    |         | 10.9     | ZND    | 84273603    |
| 22  | 2.5   | 70     |         | 12.9     | PHC    | 92663925    |
| 24  | 2     | 70     | FULL    | 8.8      | ZND    | 51635958    |
| 24  | 2     | 70     | FULL    | 10.9     | DAC    | 91873508    |
| 24  | 2     | 150    | FULL    | 12.9     | DAC    | 14376374    |
| 24  | 2     | 220    | FULL    | 12.9     | DAC    | 14376974    |
| 24  | 3     | 50     | FULL    | 8.8      | ZND    | 2186808     |
| 24  | 3     | 60     | FULL    | 10.9     | BGM    | 92173387    |
| 24  | 3     | 60     |         | 10.9     | ZND    | 84329838    |
| 24  | 3     | 90     |         | 10.9     | DAC    | 92304950    |
| 24  | 3     | 90     |         | 12.9     | DAC    | 14431674    |
| 24  | 3     | 100    |         | 12.9     | PHC    | 84346908    |
| 24  | 3     | 110    | FULL    | 8.8      | ZND    | 14431821    |
| 24  | 3     | 110    | FULL    | 12.9     | DAC    | 47452939    |
| ^24 | 3     | 110    | FULL    | 12.9     | DAC    | 92277223    |
| &24 | 3     | 200    |         | 12.9     | ZND    | 84346525    |

| Dia | Pitch | Length | Threads | Material | Finish | Part Number |
|-----|-------|--------|---------|----------|--------|-------------|
| 30  | 3.5   | 280    |         | 12.9     | BLO    | 47555401    |
|     |       |        |         |          |        |             |

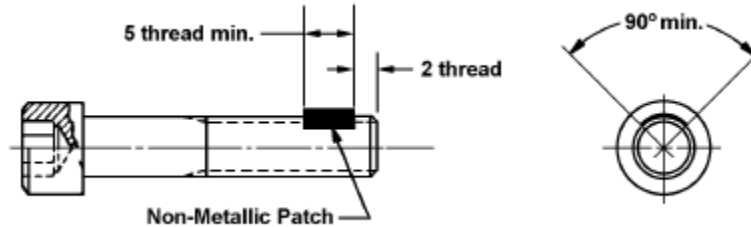
# Severe application per Fiat 10356/04

& Do not use for new designs after 01OCT2011  
(Hydrogen assisted Cracking – HAC)

^ Chemical lock per IFI 525; ND Microspheres  
593S (Blue) or Precote 85; Minimum of 5 pitches,  
entire circumference starting 2 pitches from end.

**TABLE 5: Hex Socket Head Screws with Non-Metallic Patch per IFI 524  
(Non-Preferred)**

Patch to be applied minimum of 5 pitches, starting 2 pitches from end.  
Location and size of non-metallic patch must comply with the illustration below.  
For general specification see page 3 and 4.



| Dia | Pitch | Length | Threads | Material | Finish | Part Number |
|-----|-------|--------|---------|----------|--------|-------------|
| 4   | 0.7   | 20     | FULL    | 8.8      | ZND    | 47819689    |
| 4   | 0.7   | 50     |         | 8.8      | ZND    | 47819692    |
| 6   | 1     | 18     | FULL    | 8.8      | PLN    | 47985199    |
| 10  | 1.25  | 20     | FULL    | 12.9     | BLO    | 47613309    |
| 10  | 1.5   | 20     | FULL    | 12.9     | BLO    | 47711602    |
| 12  | 1.75  | 40     | FULL    | 8.8      | ZND    | 47579555    |
| 12  | 1.75  | 50     | FULL    | 10.9     | ZND    | 87584291    |
| 16  | 2     | 55     | FULL    | 8.8      | ZND    | 92660140    |
|     |       |        |         |          |        |             |

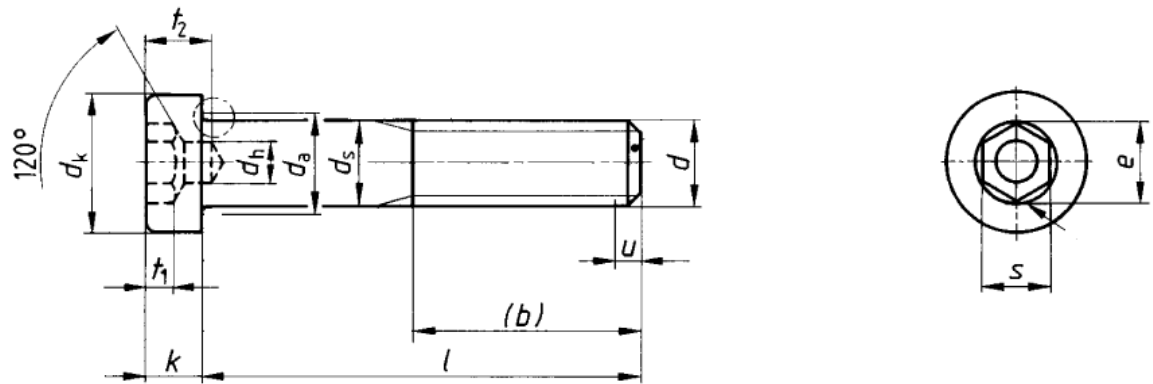


FIGURE 3: Hexagon Socket Thin Head Cap Screws DIN 6912

TABLE 6a: Hexagon Socket Thin Head Cap Screws DIN 6912 General Specifications.

| Nom. Size | Pitch P | Thread Length (b)<br>mm |                       |            | Head OD<br>$d_k$ max | Head Ht. k<br>max. | $t_1$ nom | s min  | e min |
|-----------|---------|-------------------------|-----------------------|------------|----------------------|--------------------|-----------|--------|-------|
|           |         | $\leq 125$              | $> 125$<br>$\leq 200$ | $\geq 200$ |                      |                    |           |        |       |
| M4        | 0.7     | 14                      | -                     | -          | 7                    | 2.8                | 1.6       | 3.02   | 3.44  |
| M5        | 0.8     | 16                      | -                     | -          | 8.5                  | 3.5                | 2         | 4.02   | 4.58  |
| M6        | 1       | 18                      | -                     | -          | 10                   | 4                  | 2.5       | 5.02   | 5.72  |
| M8        | 1.25    | 22                      | -                     | -          | 13                   | 5                  | 3         | 6.02   | 6.86  |
| M10       | 1.5     | 26                      | 32                    | -          | 16                   | 6.5                | 3.5       | 8.025  | 9.15  |
| M12       | 1.75    | 30                      | 36                    | -          | 18                   | 7.5                | 4         | 10.025 | 11.43 |
| *M12      | 1.25    | 30                      | 36                    | -          | 18                   | 7.5                | 4         | 10.040 | 11.45 |
| M14       | 2       | 34                      | 40                    | -          | 21                   | 8.5                | 4.5       | 12.032 | 13.72 |
| M16       | 2       | 38                      | 44                    | 57         | 24                   | 10                 | 5.5       | 14.032 | 16    |
| M18       | 2.5     | 42                      | 48                    | 61         | 27                   | 11                 | 6         | 14.032 | 16    |
| M20       | 2.5     | 46                      | 52                    | 65         | 30                   | 12                 | 6.5       | 17.05  | 19.44 |
| M22       | 2.5     | 50                      | 56                    | 69         | 33                   | 13                 | 7         | 17.05  | 19.44 |
| M24       | 3       | 54                      | 60                    | 73         | 36                   | 14                 | 7         | 19.065 | 21.73 |

TABLE 6b: Hexagon Socket Thin Head Cap Screws DIN 6912 Non-Preferred Parts

| Dia  | Pitch | Length | Threads | Material | Finish | Part Number |
|------|-------|--------|---------|----------|--------|-------------|
| M5   | 0.8   | 16     |         | 8.8      | ZND    | 47517706    |
| M8   | 1.25  | 65     |         | 8.8      | ZND    | 90492384    |
| M10  | 1.5   | 20     |         | 12.9     | DAC    | 48112880    |
| M10  | 1.5   | 25     |         | 8.8      | ZND    | 92677641    |
| M10  | 1.5   | 25     |         | 10.9     | ZND    | 92780962    |
| *M12 | 1.25  | 25     |         | 8R       | DAC    | 14765624    |
| M12  | 1.75  | 20     |         | 8.8      | ZND    | 1589304     |
| M12  | 1.75  | 25     |         | 8.8      | ZND    | 61510       |
| M12  | 1.75  | 50     |         | 8.8      | ZND    | 2928953     |



# Standard Part

## Hex Socket Head Cap Screws Metric

STPC520

87355934

Rev HF

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