Parts Manual

Mfg. No: 071271-00

200 Amp Automatic Transfer Switch and Gateway

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Model Components

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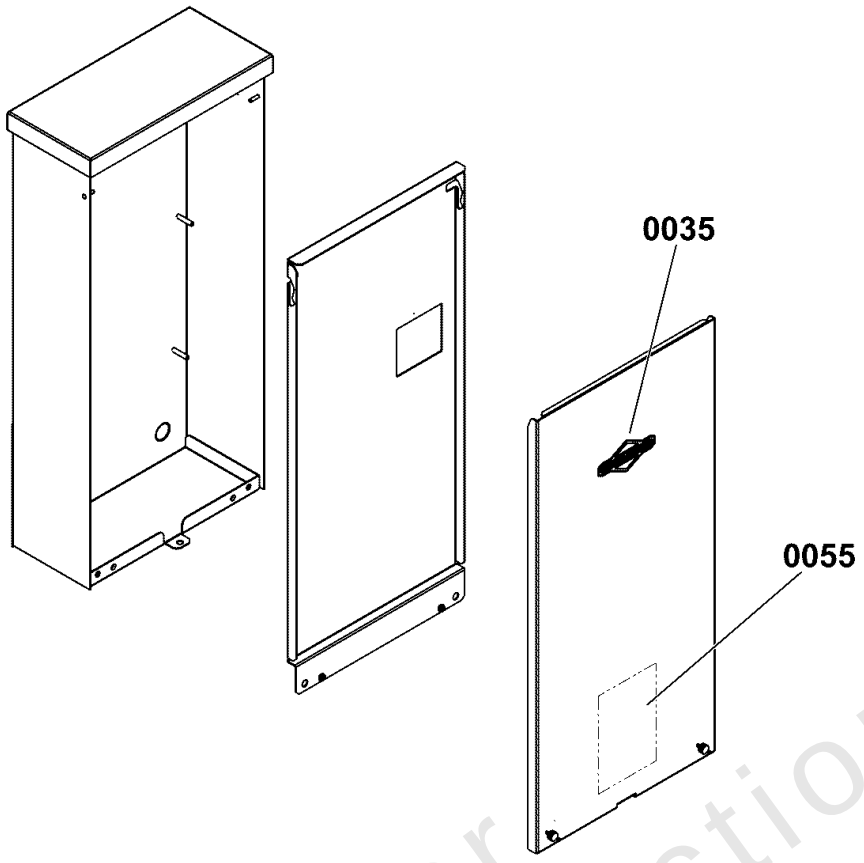

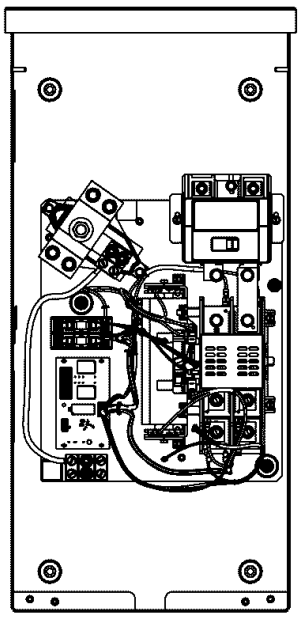

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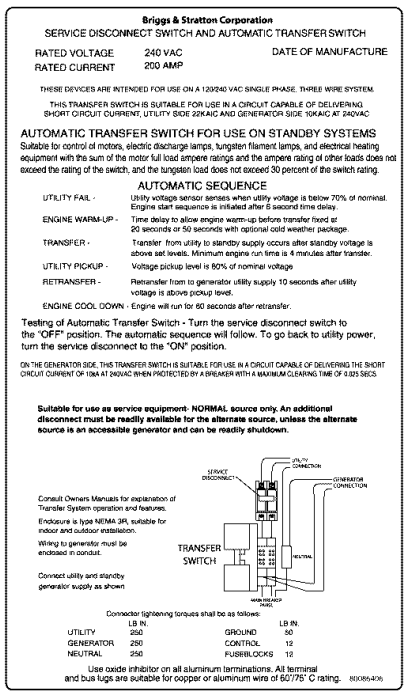

Briggs & Stratton Corporation

SERVICE DISCONNECT SWITCH AND AUTOMATIC TRANSFER SWITCH

RATED VOLTAGE 240 VAC — DATE OF MANUFACTURE
RATED CURRENT 200 AMP

THESE DEVICES ARE INTENDED FOR USE ON A 120/240 VAC SINGLE PHASE, THREE WIRE SYSTEM.

THIS TRANSFER SWITCH IS SUITABLE FOR USE IN A CIRCUIT CAPABLE OF DELIVERING SHORT CIRCUIT CURRENT, UTILITY SIDE 22KAIC AND GENERATOR SIDE 10KAIC AT 240VAC

AUTOMATIC TRANSFER SWITCH FOR USE ON STANDBY SYSTEMS

Suitable for control of motors, electric discharge lamps, tungsten filament lamps, and electrical heating equipment with the sum of the motor full load ampere ratings and the ampere rating of other loads does not exceed the rating of the switch, and the tungsten load does not exceed 30 percent of the switch rating.

AUTOMATIC SEQUENCE

UTILITY FAIL -	Utility voltage sensor senses when utility voltage is below 70% of nominal. Engine start sequence is initiated after 6 second time delay.
ENGINE WARM-UP -	Time delay to allow engine warm-up before transfer fixed at 20 seconds or 50 seconds with optional cold weather package.
TRANSFER -	Transfer from utility to standby supply occurs after standby voltage is above set levels. Minimum engine run time is 4 minutes after transfer.
UTILITY PICKUP -	Voltage pickup level is 80% of nominal voltage
RETRANSFER -	Retransfer from to generator utility supply 10 seconds after utility voltage is above pickup level.
ENGINE COOL DOWN -	Engine will run for 60 seconds after retransfer.

Testing of Automatic Transfer Switch - Turn the service disconnect switch to the "OFF" position. The automatic sequence will follow. To go back to utility power, turn the service disconnect to the "ON" position.

ON THE GENERATOR SIDE, THIS TRANSFER SWITCH IS SUITABLE FOR USE IN A CIRCUIT CAPABLE OF DELIVERING THE SHORT CIRCUIT CURRENT OF 10kA AT 240VAC WHEN PROTECTED BY A BREAKER WITH A MAXIMUM CLEARING TIME OF 0.025 SECS.

Suitable for use as service equipment: NORMAL source only. An additional disconnect must be readily available for the alternate source, unless the alternate source is an accessible generator and can be readily shutdown.

Consult Owners Manuals for explanation of Transfer System operation and features.

Enclosure is type NEMA 3R, suitable for indoor and outdoor installation.

Wiring to generator must be enclosed in conduit.

Connect utility and standby generator supply as shown

Connector tightening torques shall be as follows:

	LB IN.		LB IN.
UTILITY	250	GROUND	50
GENERATOR	250	CONTROL	12
NEUTRAL	250	FUSEBLOCKS	12

Use oxide inhibitor on all aluminum terminations. All terminal and bus lugs are suitable for copper or aluminum wire of 60/75° C rating. 80086406

0055

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Decals Group - ATS Informational

REF NO	PART NO	QTY	DESCRIPTION
0035	-----	1	DECAL, B&S Logo
0055	84004859	1	DECAL, Transfer Switch, 200A

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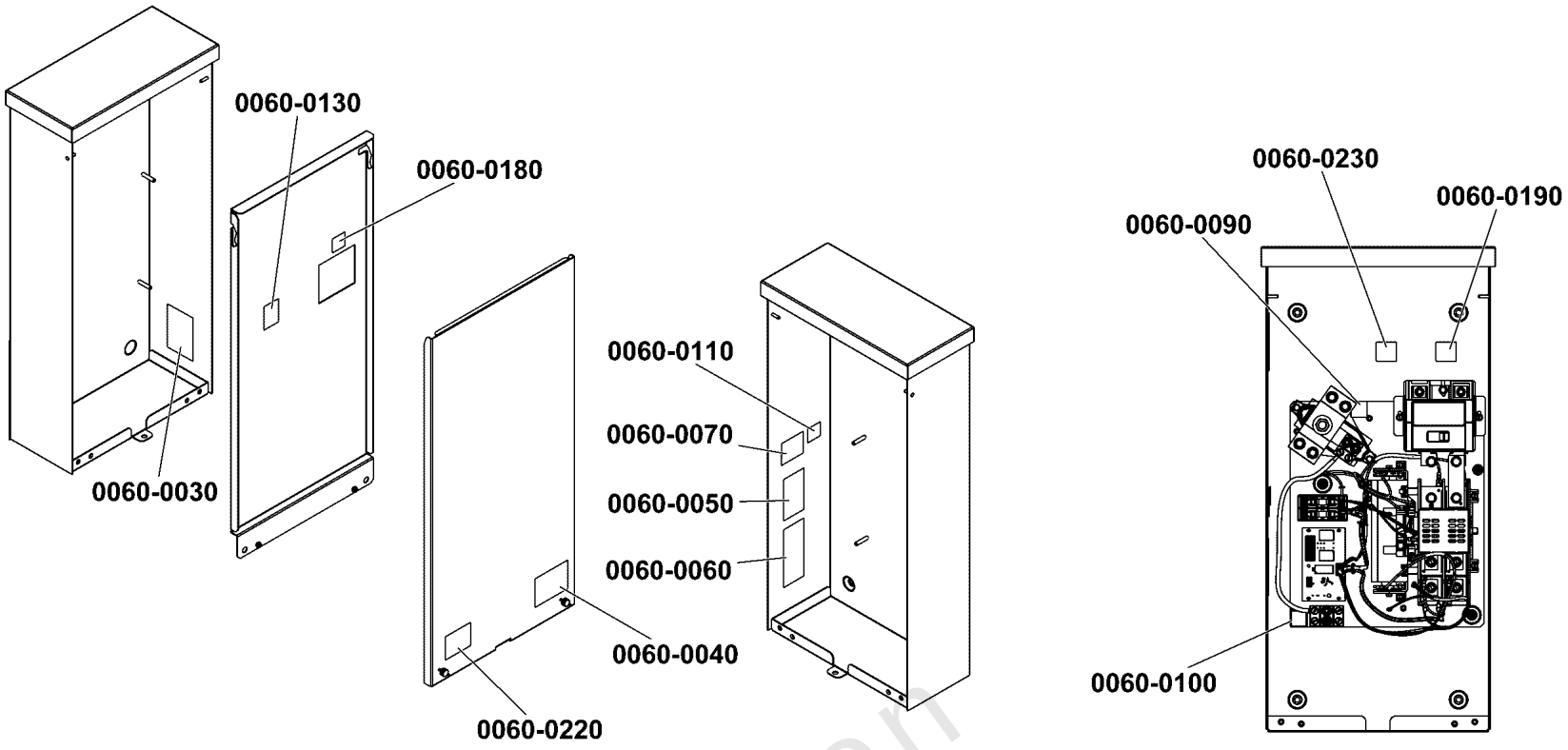
Decals Group - ATS Warning

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 071271-00



0060

Suitable for use as service equipment in Canada

Peut être utilisé comme équipement de réparation au Canada

Adecuado para uso como equipo de servicio en Canadá

80016092

0060-0010

WARNING
AVERTISSEMENT
ADVERTENCIA

Risk of electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

Risque de décharge électrique. Ne pas retirer le couvercle. Aucune pièce à entretenir par l'utilisateur à l'intérieur. Confier l'entretien à du personnel de service qualifié.

Riesgo de descarga eléctrica, no quite la cubierta. No hay partes que puedan ser reparadas por el usuario en el interior. Haga que personal calificado realice el servicio.

80014016

0060-0020

WARNING
AVERTISSEMENT
ADVERTENCIA

Electric shock hazard could result in death or serious injury. Do not install or remove current transformer when generator is operating. Place generator in off position and remove controller fuse before servicing.

Risque de choc électrique pouvant provoquer des blessures graves, voire la mort. Ne pas installer ou retirer le transformateur de courant lorsque la génératrice est en fonction. Placez la génératrice à la position d'arrêt et retirez le fusible de contrôle avant tout entretien.

Riesgo de descarga eléctrica que puede resultar en muerte o lesión seria. No instale ni retire el transformador cuando el generador está en funcionamiento. Apague el generador y retire el fusible del controlador antes de reparar.

80015809

0060-0030

WARNING
AVERTISSEMENT
ADVERTENCIA

Electric shock hazard could result in death or serious injury. More than one live circuit – disconnect all sources of supply before servicing.

Risque de choc électrique pouvant provoquer des blessures graves, voire la mort. Plus d'un circuit sous tension – débrancher toutes les sources d'alimentation avant d'entreprendre le dépannage.

Riesgo de descarga eléctrica que puede resultar en muerte o lesión seria. Más de un circuito vivo – desconecte todas las fuentes de suministro antes de servicio.

80089650

0060-0040

NOTICE
AVIS
AVISO

A-A Terminals rated 1 AMP, 24 Volt AC
B-B Terminals rated 1 AMP, 120 Volt AC
Pilot duty.

Bornes A-A pour une tension nominale de 1 A, 24 V c.a.
Bornes B-B pour une tension de 1 A, 120 V c.a.
Service du pilote.

Terminales calibrados A-A 1 Amperio, 24 Voltios CA
Terminales calibrados B-B 1 Amperio, 120 Voltios CA
Relé auxiliar.

80016094

0060-0050

NOTICE
AVIS
AVISO

Wire all Class 2 circuits using types CL3, CL3P, CL3R or equivalent conductors.
OR
Wire all circuits as Class 1 or Electric Light and Power circuits.

Lier tous les circuits électrique de Classe 2 en utilisant des conducteurs CL3, CL3P, CL3R ou équivalent.
OU
Lier tous les circuits électriques en tant que Classe 1 ou comme lumière électrique ou circuits d'alimentation.

Conecte todos los circuitos de clase 2 al usar conductores de tipo CL3, CL3P, CL3R o equivalentes.
O
Conecte todos los circuitos como clase 1 o luz eléctrica y circuitos de energía.

80016095

0060-0060

Replace with UL listed fuse of same type and rating 600 volt, 10 amp

Remplacez avec un fusible homologue UL de même type et classification de 600 volts, 10 amp.

Reemplace con un fusible certificado por UL del mismo tipo y clasificación: 600 voltios, 10 amperios

80015819

0060-0070

Continuous load current not to exceed 80% of circuit breaker rating

Le courant de charge en continu ne dépasse pas 80% du courant nominal du disjoncteur

La carga de corriente permanente no debe exceder el 80% del calibre del interruptor

80016097

0060-0080

N

0060-0090

0060-0100

Utility
240 VAC

Fonctionnalité
240 V CA

Utilidad
240 VAC

80016098

0060-0110

Suitable for use as service equipment except in Canada

Peut être utilisé comme équipement de réparation à l'exception du Canada

Adecuado para uso como equipo de servicio excepto en Canadá

80016100

0060-0120

Reinstall Barrier After Service or Maintenance

Réinstaller la barrière Après la réparation ou L'entretien

Reinstalar barreras Después del servicio o Mantenimiento

80016101

0060-0130

When protected by one of the type circuit breakers described below, rated not more than 125 amperes, this transfer switch is rated for use on a circuit capable of delivering not more than 22,000 rms symmetrical, 240 volts max.

Lorsqu'il est protégé par l'un des types de disjoncteurs de circuit décrits ci-dessous, avec une valeur nominale ne dépassant pas 125 A, cet interrupteur de transfert est côté pour une utilisation sur un circuit capable de fournir au maximum un courant de 22 000 RMS symétrique, avec un voltage de 240 V maximum.

Cuando se proteja con uno de los tipos de interruptores que se describen a continuación, con un calibre no mayor a 125 amperios, este interruptor de transferencia está calibrado para ser usado en un circuito capaz de suministrar no más de 22,000 rms simétricos, máximo 240 voltios.

Cutler-Hammer Type QCHW
Cutler-Hammer Type GB, GHB, GC, GHC
Cutler-Hammer Type FD, GD, HFD
Square D Type QDM1, QDM2, QDM1-VH, QDM2-VH
Square D Type Q2-H, Q2H, QDL
GE Type THHQB, THHQC, THHQL, THQD, TQDL, THQDL
Siemens Type HED4

80016109

0060-0140

When protected by one of the type circuit breakers described below, rated not more than 250 amperes, this transfer switch is rated for use on a circuit capable of delivering not more than 25,000 rms symmetrical, 240 volts max.

Lorsqu'il est protégé par l'un des types de disjoncteurs de circuit décrits ci-dessous, avec une valeur nominale ne dépassant pas 250 A, cet interrupteur de transfert est côté pour une utilisation sur un circuit capable de fournir au maximum un courant de 25 000 RMS symétrique, avec un voltage de 240 V maximum.

Cuando se proteja con uno de los tipos de interruptores que se describen a continuación, con un calibre no mayor a 250 amperios, este interruptor de transferencia está calibrado para ser usado en un circuito capaz de suministrar no más de 25,000 rms simétricos, máximo 240 voltios.

Cutler-Hammer Type BWH, CSR,
Cutler-Hammer Type FD, HFD
Cutler-Hammer Type JDB, JD, HJD
Square D Type QDM2, QDM2-VH
Square D Type QOM2, QOM2-VH,
Square D Type Q2-H, Q2H, QDL
GE Type THQD, THQDL
GE Type SF, TFJ, TFK

80016234

0060-0150

Generator Service Disconnect

Génératrice Réparation Débrancher

Generador Servicio Desconectar

80016099

0060-0160

Service Disconnect

Réparation Débrancher

Servicio Desconectar

80016102

0060-0170

Utility Disconnect

Fonctionnalité Débrancher

Utilidad Desconectar

80016103

0060-0180

Utility Connection

Fonctionnalité Connexion

Utilidad Conexión

80016104

0060-0190

Generator Connection

Génératrice Connexion

Generador Conexión

80016105

0060-0200

Located at Generator

Située à Génératrice

Ubicado en Generador

80016107

0060-0210

WARNING
AVERTISSEMENT
ADVERTENCIA

Cancer and Reproductive Harm
www.P65Warnings.ca.gov

Cancer et Troubles de l'Appareil Reproducteur
www.P65Warnings.ca.gov

Cáncer y Problemas Reproductivos
www.P65Warnings.ca.gov

80030073

0060-0220

Generator Disconnect Located at Generator

Disjoncteur d'interruptionde génératrice situé sur la génératrice

Generador desconectar localizado en generador

80078704

0060-0230

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Decals Group - ATS Warning

REF NO	PART NO	QTY	DESCRIPTION
0060	770133	1	DECAL SHEET - WARNINGS -(Includes items 0060-0010 thru 0060-0220)
0060-0010	-----	1	DECAL, Suitable as SRV Equipment, Canada
0060-0020	-----	1	DECAL-WARNING, SHOCK
0060-0030	-----	1	DECAL-WARNING, ELECTRIC SHOCK
0060-0040	-----	1	DECAL-WARNING, ELECTRIC SHOCK
0060-0050	-----	1	DECAL, Notice, Contacts Rated
0060-0060	-----	1	DECAL, Notice, Wire Circuits
0060-0070	-----	1	DECAL-FUSE REPLACEMENT
0060-0080	-----	1	DECAL, Breaker, Circuit
0060-0090	-----	1	DECAL-NEUTRAL
0060-0100	-----	2	DECAL-GROUND
0060-0110	-----	1	DECAL, Utility 240VAC
0060-0120	-----	1	DECAL, Suitable as Service Equipment
0060-0130	-----	1	DECAL, Reinstall Barrier
0060-0140	-----	1	DECAL, Approved Circuit Breakers, 100A
0060-0150	-----	1	DECAL, Approved Circuit Breakers, 200A
0060-0160	-----	1	DECAL, Generator Service Disconnect
0060-0170	-----	2	DECAL, Service Disconnect
0060-0180	-----	2	DECAL, Disconnect, Utility
0060-0190	-----	2	DECAL, Connection, Utility
0060-0200	-----	1	DECAL, Connection, Generator
0060-0210	-----	1	DECAL, Location
0060-0220	-----	1	DECAL, Warning -(The installation of this decal is required for units manufactured after 08/30/2018 and sold in the state of California.)
0060-0230	-----	1	DECAL, Generator Disconnect Located at Generator

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Transfer Switch - Hingeless Enclosure

Note: Unless noted otherwise, use the standard torque specifications

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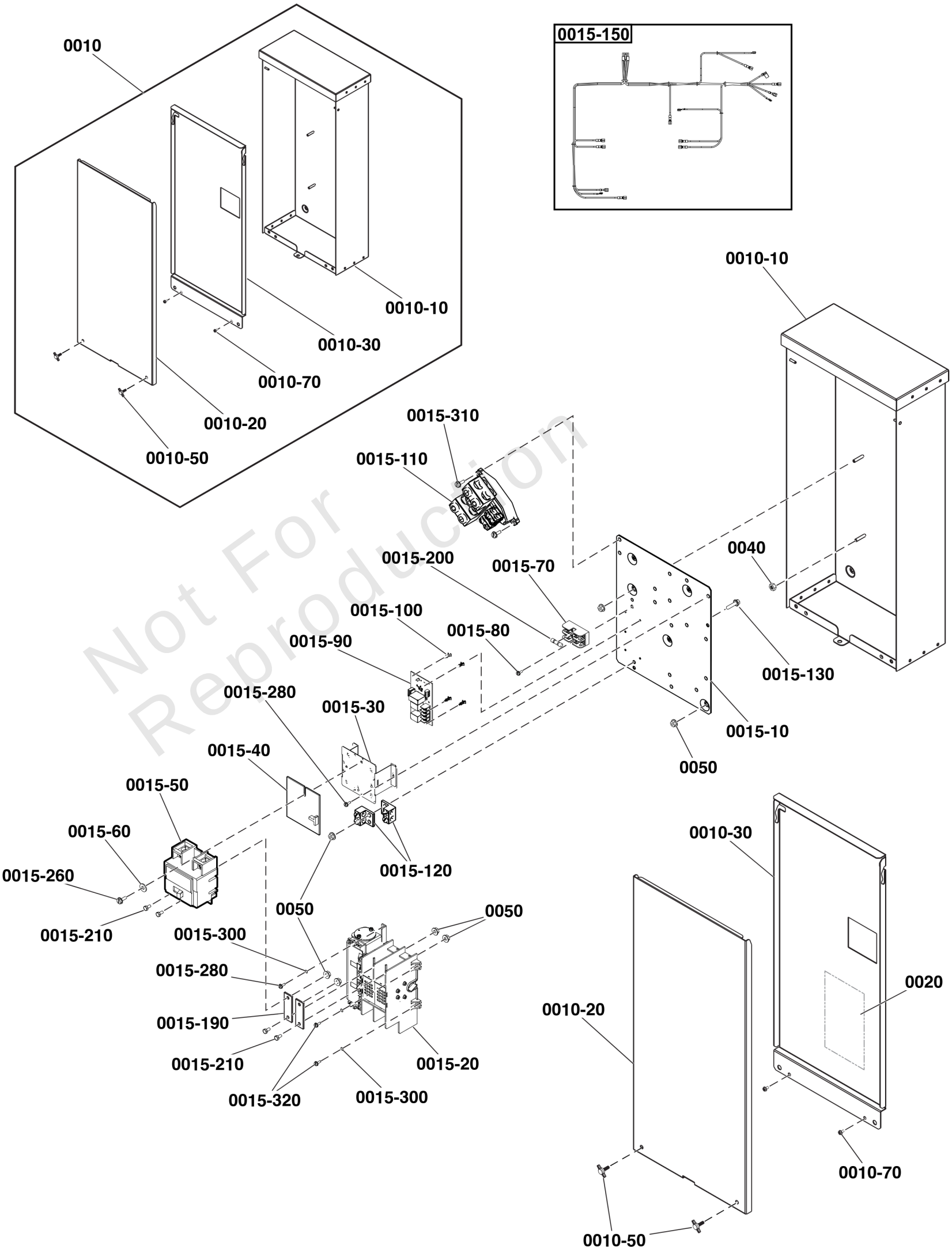

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Transfer Switch - Hingeless Enclosure

REF NO	PART NO	QTY	DESCRIPTION
0010	-----	1	ASSEMBLY, Enclosure -(*See footnote)
0010-10	-----	1	ENCLOSURE -(*See footnote)
0010-20	84004672	1	DOOR -(Incl. Ref. No. 0060)
0060	-----	1	DECAL SHEET - WARNINGS
0010-30	84005082	1	PANEL, Deadfront -(Incl. Ref. Nos. 0020, 0060)
0020	193664GS	1	INSULATION, Dead Front
0060	-----	1	DECAL SHEET - WARNINGS
0010-50	315108GS	2	SCREW
0010-70	703967	2	SCREW, #10-32 x 3/8, Torx Hex Washer Head Self-Tap, ZC/CL
0015-10	-----	1	PANEL, Back -(*See footnote)
0015-20	84002607	1	CONTACTOR, 200A
0015-30	770433	1	BRACKET
0015-40	192879GS	1	INSULATION, Circuit Breaker
0015-50	192065GS	1	BREAKER, Circuit, 200A
0015-60	23897GS	1	WASHER, Flat, #10 - M5
0015-70	192151GS	1	FUSE HOLDER, 30 Amp 2P
0015-80	192730GS	2	SCREW, Hex Head, Trilobular, #6-32 x 3/8
0015-90	770434	1	BOARD, Circuit
0015-100	707397	4	SPACER
0015-110	84004679	1	ASSEMBLY, Neutral, 200A
0015-120	84004498	2	LUG
0015-130	-----	1	SCREW, 1/4"-20 x 1"
0015-150	84004510	1	HARNESS, Wire
0015-190	319267GS	2	BAR, Bus
0015-200	205110GS	2	FUSE, 10 Amp 600v
0015-210	22287GS	4	SCREW, 1/4" - 20 x 3/4"
0015-260	24679GS	1	TRILOBULAR, #10-32 x 3/4
0015-280	194561GS	4	HHS, Trilobular, #10-32 x 3/8
0015-300	23762GS	4	WASHER
0015-310	32713GS	2	TAPTITE, #10-32 X 5/8
0015-320	200020GS	2	SCREW, Trilobular, #10-32 x 1/2
0020	193664GS	1	INSULATION, Dead Front
0040	45771GS	2	NUT, M8 - 1.25
0050	703061	9	NUT, 1/4-20, Keps, Conical Washer

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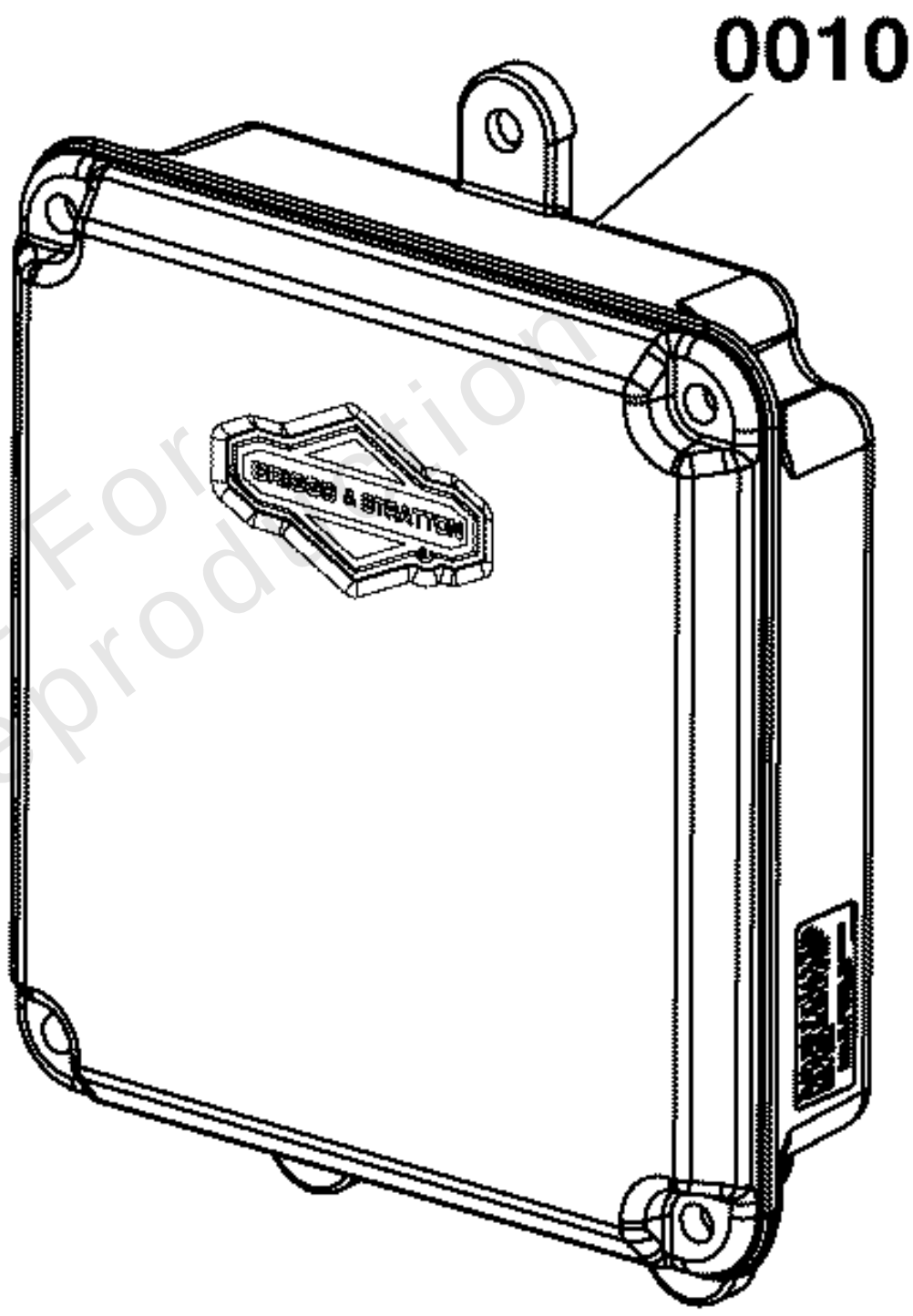

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Wireless Gateway

REF NO	PART NO	QTY	DESCRIPTION
0010	6520	1	ASSEMBLY, Wireless Gateway

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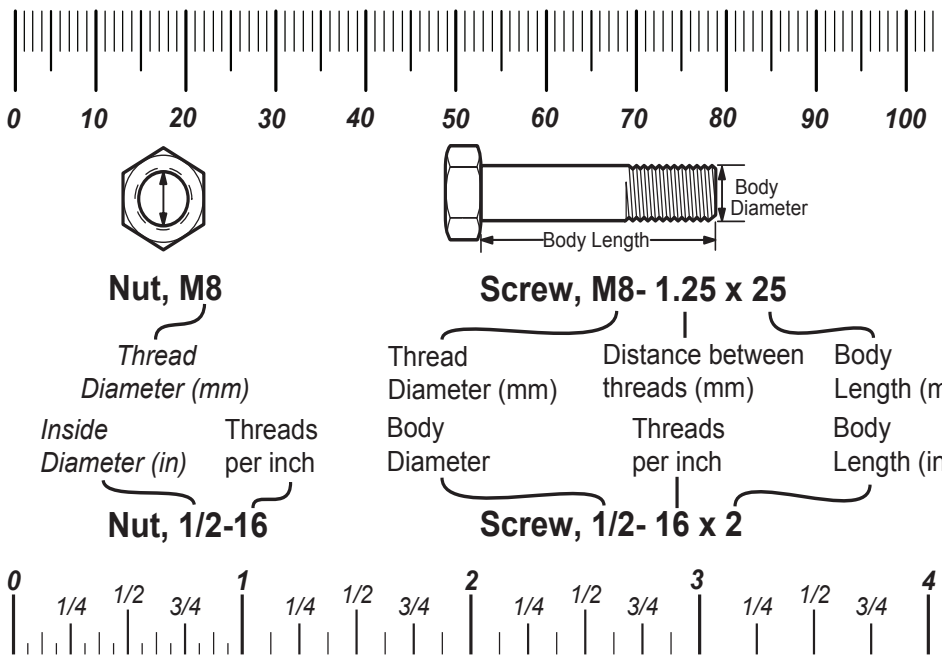
Hardware Identification & Torque Specifications

Torque Specification Chart

FOR STANDARD METRIC MACHINE HARDWARE (Tolerance ± 20%)

Property Class	5.6 Class 5.6		8.8 Class 8.8		10.9 Class 10.9		12.9 Class 12.9	
Size Of Hardware	*in/lbs* **ft/lbs**	Nm.	*in/lbs* **ft/lbs**	Nm.	*in/lbs* **ft/lbs**	Nm.	*in/lbs* **ft/lbs**	Nm.
M3	*5.88*	*.56*	*13.44*	*1.28*	*19.2*	*1.80*	*22.92*	2.15
M4	*13.44*	*1.28*	*30.72*	*2.90*	*43.44*	*4.10*	*52.56*	4.95
M5	*26.4*	*2.50*	*60.96*	*5.75*	**5.97**	*8.10*	**7.15**	9.7
M6	*44.64*	*4.3*	**7.3**	*9.9*	**10.3**	*14*	**12.1**	16.5
M7	**5.2**	*7.1*	**12.1**	*16.5*	**16.9**	*23*	**19.9**	27
M8	**7.7**	*10.5*	**17.7**	*24*	**25**	*34*	**29**	40
M10	**15**	*21*	**35**	*48*	**50**	*67*	**59**	81
M12	**26**	*36*	**61**	*83*	**86.2**	*117*	**103**	140
M14	**42**	*58*	**101**	*132*	**136**	*185*	**162**	220
M16	**64**	*88*	**147**	*200*	**210**	*285*	**250**	340
M18	**89**	*121*	**202**	*275*	**287**	*390*	**346**	470
M20	**126**	*171*	**290**	*390*	**405**	*550*	**486**	660
M22	**169**	*230*	**390**	*530*	**559**	*745*	**656**	890
M24	**217**	*295*	**497**	*375*	**708**	*960*	**840**	1140
M27	**320**	*435*	**733**	*995*	**1032**	*1400*	**1239**	1680
M30	**435**	*590*	**995**	*1350*	**1401**	*1900*	**1681**	2280
M33	**590**	*800*	**1349**	*1830*	**1902**	*2580*	**2278**	3090
M36	**759**	*1030*	**1740**	*2360*	**2441**	*3310*	**2935**	3980
M39	**988**	*1340*	**2249**	*3050*	**3163**	*4290*	**3798**	5150

The guides and ruler furnished below are designed to help you select the appropriate hardware.



Standard Hardware Sizing

When a washer or nut is identified as **1/2"** (M8), this is the *Nominal size*, meaning the *inside diameter* is 1/2 inch (8mm metric thread diameter); if a second number is present it represents the *threads per inch* (distance between threads).

When bolt or capscrew is identified as **1/2 - 16 x 2"** (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number,16, represents the *threads per inch, (distance between threads).* The final number is the body length of the bolt or screw, 2 inches (50mm).

Torque Specification Chart

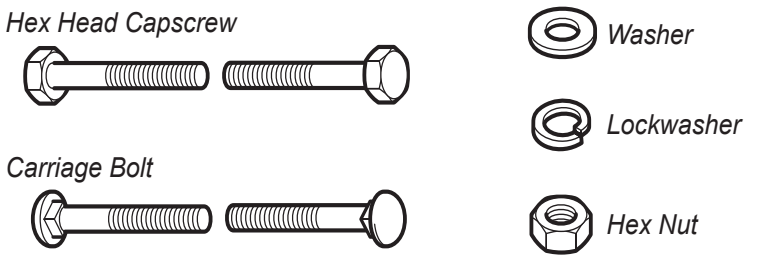
FOR STANDARD MACHINE HARDWARE (Tolerance ± 20%)

Hardware Grade	No Marks SAE Grade 2		SAE Grade 5		SAE Grade 8	
Size Of Hardware	*in/lbs* **ft/lbs**	Nm.	*in/lbs* **ft/lbs**	Nm.	*in/lbs* **ft/lbs**	Nm.
8-32	*19*	2.1	*30*	3.4	*41*	4.6
8-36	*20*	2.3	*31*	3.5	*43*	4.9
10-24	*27*	3.1	*43*	4.9	*60*	6.8
10-32	*31*	3.5	*49*	5.5	*68*	7.7
1/4-20	*66*	7.6	**8**	10.9	**12**	16.3
1/4-28	*76*	8.6	**10**	13.6	**14**	19.0
5/16-18	**11**	15.0	**17**	23.1	**25**	34.0
5/16-24	**12**	16.3	**19**	25.8	**29**	34.0
3/8-16	**20**	27.2	**30**	40.8	**45**	61.2
3/8-24	**23**	31.3	**35**	47.6	**50**	68.0
7/16-14	**30**	40.8	**50**	68.0	**70**	95.2
7/16-20	**35**	47.6	**55**	74.8	**80**	108.8
1/2-13	**50**	68.0	**75**	102.0	**110**	149.6
1/2-20	**55**	74.8	**90**	122.4	**120**	163.2
9/16-12	**65**	88.4	**110**	149.6	**150**	204.0
9/16-18	**75**	102.0	**120**	163.2	**170**	231.2
5/8-11	**90**	122.4	**150**	204.0	**220**	299.2
5/8-18	**100**	136	**180**	244.8	**240**	326.4
3/4-10	**160**	217.6	**260**	353.6	**386**	525.0
3/4-16	**180**	244.8	**300**	408.0	**420**	571.2
7/8-9	**140**	190.4	**400**	544.0	**600**	816.0
7/8-14	**155**	210.8	**440**	598.4	**660**	897.6
1-8	**220**	299.2	**580**	788.8	**900**	1,244.0
1-12	**240**	326.4	**640**	870.4	**1,000**	1,360.0

NOTES

1. These torque values are to be used for all hardware excluding: locknuts, self-tapping screws, thread forming screws, sheet metal screws and socket head setscrews.
2. Recommended seating torque values for locknuts:
   a. for prevailing torque locknuts - use 65% of grade 5 torques.
   b. for flange whizlock nuts and screws - use 135% of grade 5 torques.
3. Unless otherwise noted on assembly drawings, all torque values must meet this specification.

Common Hardware Types



Wrench & Fastener Size Guide

1/4" Bolt or Nut Wrench—7/16"

5/16" Bolt or Nut Wrench—1/2"

3/8" Bolt or Nut Wrench—9/16"

7/16" Bolt or Nut Wrench (Bolt)—5/8" Wrench (Nut)—11/16"

1/2" Bolt or Nut Wrench—3/4"

M6 Bolt or Nut Wrench—10mm

M8 Bolt or Nut Wrench—13mm

M10 Bolt or Nut Wrench—17mm

M12 Bolt or Nut Wrench—19mm

M14 Bolt or Nut Wrench—22 mm

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