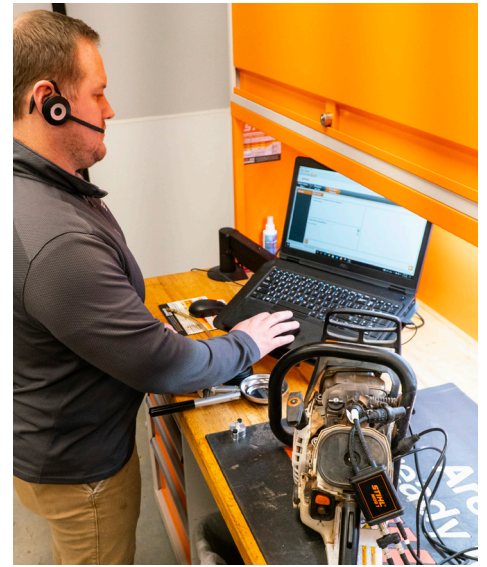




2022 TECHNICAL REFERENCE GUIDE

Specifications, Standard Features, Diagnostic
Procedures, & Product Liability

[illegible]

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Technical Reference Guide - Resources

1. Bryan Equipment Sales, Inc.

www.bryanequipment.com

- ▶ Text or email your technical questions to techservice@bryanequipment.com
 - Or call 513-248-2000 prompt 3 to get Bryan Equipment Technical Service Rep.
- ▶ On the website: www.bryanequipment.com
 - Training / Training Resources / Training Videos / Technical Training Videos
 - How to perform a STIHL 4-Mix Leak Down test
 - How to perform a 2 stroke vacuum and pressure test
 - How to calibrate Original STIHL M-Tronic™ Chain Saw
 - How to calibrate New Generation 3.0 STIHL M-Tronic™ Chain Saw
 - How to adjust 2 stroke carburetors utilizing the MDG1
 - How to reassemble HT Pole Pruner
 - Technical Service / Technical Resources
 - STIHL Diagnostic Software User Manual
 - USG Saw Chain Grinder Technical Guide
 - USG Saw Chain Grinder Setting Chart
 - ...and more
 - Access STIHL Single Sign-On (SSO)

2. STIHL Single Sign-On

<https://dealers.sthlusa.com/Portal>

- ▶ Under “My Applications”
 - iCADEMY® (link to STIHL iCADEMY® site)
 - eService (link to STIHL eService site for warranty and registration)
 - Part Smart WEB (internet version of parts look up media)
 - Parts Lookup (SSC Web Version)
- ▶ Under “Links” section at bottom of SSO page
 - STIHL Diagnostic Software (SDS that works with MDG1, ADG1, ADG2) download link

Generations of STIHL

CHAIN SAWS		
Series	Model	Production Years
1101	BL	1952-1959
1102	BLK	1954-1966
1106	Contra 06	1959-1968
	Contra S 06	1964-1968
	Contra 070	1959-1968
	070	1968-1977
	090	1968-1977
1107	07	1961-1965
	07S	1965-1968
1108	08	1963-1965
	08S	1965-1994
	S10	1968-1973
1109	090G	1969-1985
1110	040	1966-1967
	041	1967-1975
	041FB	1976-1986
	041AV	1967-1986
	041AVE	1968-1973
	041AVS	1977-1983
	041AVQ	1981-1985
1111	050	1968-1972
	051	1972-1985
	075	1974-1980
	076	1980-1986
1112	041G	1969-1975
1113	030	1970-1971
	031	1971-1982
	031E	1973-1982
	031Q	1980-1982
	032	1978-1985
1114	020	1971-1979
	020AVP	1972-1979
	020 Super	1979-1994
1115	045	1974-1980
	045 Super	1977-1980
	056AV	1980-1985
	056AVSE	1980-1984
1116	015	1973-1980
	015L	1973-1983
	015AV	1976-1983
	015AVE	1974-1983
	015AVEQ	1978-1983
1117	042AV	1976-1980
	048	1980-1985
1118	028AV, 028WB	1979-1980
	028AVEQ	1979-1983
	028AVS	1983-1990
1119	038AVE	1980-1985
	038AVEFB	1983-1985
	038AVS	1982-1985
	038AVSFB	1985-1993
	038AVM	1984-1989
	038 MAGNUM®	1985-1997
1120	09 Mini Boss™	1993-2006
	009	1980-1989
	009LE	1982-2009
	010AV	1978-1982
	010AVE	1982-1985
	011AVEQ	1980-1990
	011AVT	1980-1982
	011AVET	1982-1996
	012AVE	1986-1994
	012AVET	1986-1989
1121	024AVEQ	1982-1985
	024AVEQWB	1985-1994
	024AVES	1984-1989
	026	1988-2002
	026 Pro	1996-2002
1122	MS 260, 260 P	2002-2011
	064AV	1986-1997
	066	1988-2003
	MS 660	2004-2014

Series	Model	Production Years
1122	MS 650	2005-2012
1123	021, 023	1990-2002
	023C, 023L	1996-2002
	025	1991-2002
	MS 210	2002-2008
	MS 230	2002-2012
	MS 250	2002-Current
1124	084	1985-1997
	088	1997-2004
	MS 880	2004-2021
1125	MS 881	2021-Current
	034AV	1984-1993
	036	1991-2001
	036 Pro	1996-2001
	036QS	1997-2002
1127	MS 360, 360 P, 360QS	2002-2005
	029, 039	1992-2000
	MS 290	2000-2012
	MS 310, 390	2000-2009
1128	044	1988-2001
	046	1996-2001
	MS 440	2001-2012
	MS 460	2001-2012
	MS 461, 461 Rescue	2013-2019
1129	020T	1996-2002
	MS 200, 200 T	2002-2012
1130	017	1995-2002
	018	1999-2002
	MS 170, 180	2002-Current
	MS 180 C-B	2002-2012
1132	019T	1997-2002
	MS 191 T	2002-2006
1133	MS 270, 280	2003-2010
1135	MS 361	2004-2010
1137	MS 192, 192 T	2005-2014
	MS 193, 193 T	2014-2019
1138	MS 194 C, 194 T	2019-Current
	MS 441	2007-2012
1139	MS 441 C-M	2011-2019
	MS 171, 181	2009-Current
1140	MS 211, 211 C-B	2009-Current
	MS 311, 391	2009-Current
1141	MS 362	2010-Current
	MS 362 C-M	2014-Current
	MS 400 C-M	2021-Current
	MS 271, 291	2010-Current
1142	MS 261	2010-Current
	MS 261 C-MQ	2014-2019
	MS 261 C-M, 2014-Current	
1143	MS 462 C-M	2019-Current
	MS 241 C-M, 241 C-MQ	2014-2018
1144	MS 251, 251 C-BE	2013-Current
	MS 661 C-M - MS 661	2014-Current
1145	MS 201 T C, 201 C	2011-2015
	MS 201 T C-M, 201 C-EM	2015-Current
1146	MS 150 C-E, MS 150 T C-E,	2013-2020
	MS 151 C-E, MS 151 T C-E	2020-Current
1147	MS 500i	2020-Current
ELECTRIC CHAIN SAWS		
Series	Model	Production Years
1202	E30	1967-1985
1203	E15	1967-1985
1204	E10	1973-1984
1206	E14	1984-1997
1207	E20	1985-1998
	E220Q	1999-2002
	MSE 220	2003-2014
1208	E140, E180	1998-2002
	MSE 140, 141, 180	2003-2014
1208	MSE 141 C-Q	2017-Current
1209	MSE 170 C-BQ, 210 C-BQ	2014-Current

Generations of STIHL

POWER TOOLS		
Series	Model	Production Years
1210	MSE 250 C-Q	2015-Current
4104	FS 08	1969-1976
4106	FS 20	1969-1977
4108	FS 353	1979-1986
4109	FS 200, FS 202	1975-1983
4110	FS 410	1976-1986
4111	FS 150, 151	1976-1983
4112	FS 80	1977-1983
	FS 80E	1983-1984
	FS 80AVE	1983-1986
4114	FS 60	1979-1981
	FS 61	1980-1983
	FS 61E	1982-1986
4116	FS 65	1984-1986
	FS 360	1986-1997
	FS 550	1997-2012
4117	FS 420	1990-1997
4117	FS 90AV (OLD)	1982-1987
4118	FS 50 (OLD)	1983-1984
	FS 51	1984-1986
4119	FS 160	1987-1989
	FS 180	1987-1997
	FS 220	1987-1989
	FS 280 K	1988-1997
4121	FS 65	1983-1986
4122	FS 62	1986-1988
4123	FS 66	1986-1994
4124	FS 81AVE	1988-1995
4125	FS 48	1987-1989
	FS 52	1986-1988
	FS 56	1988-1994
4126	FS 81, 86	1986-1994
	FS 88	1995-1996
4127	FS 96	1986-1989
4128	FS 450	1997-2011
4129	FS 106	1990-1994
4130	FS 36	1990-2000
	FS 40, 44	1990-1999
	FC 44	1994-2000
4132	FR 106	1990-1996
4133	FS 72, 74, 76, FC 72	1992-1996
4134	FS 120, 200	1997-2000
	FS 250	2001-2014
	FS 350	1997-2015
	HT 250	2006-Current
4135	FS 108	1995-1997
4137	FC 75	1997-2011
	FS 75	1997-2006
	FS 80	1997-2010
	FS 85	1997-2006
	FS 85 RT	2000-2004
4138	HT 75	1997-2005
	HT 70	1999-2004
4139	HT 56 C-E	2010-Current
4140	FS 38	2014-Current
	FS 45, 46	2000-2013
	FS 55, 55 R	2000-2013
	FC 55	2000-2008
	FM 55 RC-E	2005-2008
4141	FS 83, 83 R, FS 73	2000-2001
4142	HT 73	2001-2005
4144	FS 40, 56	2008-Current
	FS 50 C-E	2013-Current
	FC 56 RC-E, FC 70	2009-Current
	FS 70, FS 70 C-E,	2010-Current
	KM 56 R C-E	2009-Current
4147	FS 240, 240 R	2014-Current
	FS 360, 460	2013-2016
	FS 360 C-E, 460 C-EM	2014-Current
4148	FS 560 C	2012-2016
	FS 560 C-EM	2013-Current
4149	FS 94 R	2014-Current
	KM 94 R	2015-Current

Series	Model	Production Years
4180	FS 90, 100 RX, 110, 110 RX, 130	2002-2016
	FS 91, 91 R, 111, 111 R, 111 RX, 131, 131 R, 311	2016-Current
	KM 100 R, FC 110	2002-2016
	FC 95	2005-2016
	FC 91, 96, 111	2016-Current
	FS 90 R, KM 90 R	2005-2016
	KM 130 R	2006-2016
	KM 91 R, 111 R, 131 R	2016-Current
	FS 310	2010-2016
	FB 131	2016-Current
4182	HT 100, 101	2005-2016
	HT 102	2016-2018
	HT 103, 132,	2016-Current
	HT 133	2016-2018
	HT 130	2007-2016
	HT 131	2007-2016 / 2019-Current
4202	SG 17	1969-1991
	BG 17	1974-1991
4203	BR 320, 400	1989-2001
	BR 340 C, 420 C	2001-2007
	BR 380 D	2005-2010
	SR 320, 400	1989-2001
	BR 420 C MAG	2002-2007
4210	BG 60	1982-1986
	BG 61	1986-1991
4211	HS 60AVE	1984-1992
4222	BR 106	1991-1994
4226	HS 72, 74, 76	1992-1996
	HS 75	1997-2001
	HS 80	1997-2006
	HS 85	1997-2005
4227	BG 75	1996-2000
	BG 72	1992-1997
4228	HS 45	2000-Current
4229	BG 45 C	2003-2006
	BG 45	2000-2006
	BG 50	2015-Current
	BG 55, SH 55, BG 65	2000-2015
	BG 85, SH 85	2000-2010
4230	HL 75 K	1997-2005
	HL 75	1997-2005
4232	HL 45	1999-2016
4233	SP 200	2003-2008
4236	HL 56 K	2016-Current
4237	HS 81 T	2007-2015
	HS 86	2006-2015
	HS 82	2015-Current
	HS 87	2015-Current
4241	BG 56, 66, 86	2008-Current
	SH 56, 86	2008-Current
	BR 200	2011-Current
	SR 200	2014-Current
4242	HS 46, 56	2012-Current
4243	HL 91 K, 94, 94 K	2016-Current
	HL 111, 111 K	2021-Current
4244	SR 450	2010-Current
	BR 350, 430	2010-Current
	BR 450, 450 C-EF	2015-2020
	SR 430	2016-Current
4247	SG 10	2006-2014
	SG 20	2006-Current
4255	SG 11, 31	2015-Current
	SG 51, 71	2012-2018
	SG 51, 71	2021-Current
4280	HL 100 135, 100 O, 100 K 135	2003-2016
	HL 90	2007-2016
4282	BR 500	2005-Current
	BR 550	2005-2015
	BR 600	2006-Current
	BR 700	2016-Current
	BR 700 X	2017-Current

Generations of STIHL

POWER TOOLS		
Series	Model	Production Years
4283	BR 800 C-E	2019-Current
	BR 800X	2019-Current
4601	MM 55, MM 55 C-E	2002-2019
4602	KW 85	2000-2005
4604	MM 56	2019-Current
4803	FE 55	1992-2002
	EC 70	1994-2001
4804	BE 55	1994-2000
4807	BGE 60	1999-2009
4809	FSE 60	2003-Current
4811	BGE 61, 71	2008-Current
4812	HSE 60	2008-2015
	HSE 70	2008-Current
4818	HSE 52	2014-Current
BATTERY		
Series	Model	Production Years
1250	MSA 160 C-BQ	2011-Current
1251	MSA 200 C-BQ	2014-Current
1251	MSA 220 C-B	2019-Current
1252	MSA 161 T	2019-Current
1254	MSA 120 C	2017-Current
	MSA 140 C-BQ	2018-Current
4511	HSA 45	2017-Current
4512	FSA 45	2017-Current
4513	BGA 45	2017-Current
4515	HSA 25	2018-Current
4521	HSA 56	2017-Current
4522	FSA 56	2017-2020
4522	FSA 57	2020-Current
4523	BGA 56	2017-2020
4523	BGA 57	2020-Current
4851	HSA 65	2012-2013
	HSA 66	2014-Current
4852	FSA 65	2010-2019
	FSA 85	2010-2021
4853	BGA 85	2011-2021
4857	HTA 65, 85	2014-2021
4859	HLA 65	2013-2021
	HLA 66	2021-Current
	HLA 85	2015-2021
	HLA 86	2021-Current
4863	FSA 90 R	2015-Current
4864	TSA 230	2014-Current
4866	BGA 100	2015-Current
4867	FSA 130 R, KMA 130 R	2019-Current
4869	HSA 94 R/T	2019-Current
6320	RMA 370	2013-2018
6338	RMA 410 C	2016-2018
6368	RMA 460	2018-Current
	RMA 460 V	2019-Current
6372	RMA 510	2017-Current
6372	RMA 510 V	2019-Current
BA01	BGA 200	2020-Current
BA02	BGA 86	2021-Current
GA01	GTA 26	2020-Current
HA01	HLA 56	2020-Current
HA03	HSA 26	2021-Current
HA04	HLA 135 K, HLA 135 K 145, HLA 135	2020-Current
FA01	FSA 135, FSA 135 R	2020-Current
FA02	KMA 135 R	2020-Current
FA04	FSA 60 R	2021-Current
FA05	FSA 86 R	2021-Current
LA01	HTA 135	2020-Current
LA03	HTA 66	2021-Current
	HTA 86	2021-Current
INDUSTRIAL		
Series	Model	Production Years
4201	TS 08	1965-1977

Series	Model	Production Years
4201	TS 350	1977-2001
	TS 360AVE	1984-1996
4205	TS 50	1972-1977
	TS 510AVE	1978-2005
	TS 760AVE	1986-2007
4207	TS 200	1974-1979
4221	TS 460AVE	1994-2008
4223	TS 400	1995-2008
4224	TS 700	2005-Current
	TS 800	2006-Current
4238	TS 410, 420	2008-Current
	TS 440	2017-Current
4250	TS 480i	2013-2018
	TS 500i	2012-Current
4252	GS 46i	2012-Current
4308	BT 308	1964-1997
	BT 360	1996-1997
4309	BT 309	1966-1997
4311	BT 106	1991-1999
4313	BT 120 C	1999-2005
	BT 121	2005-2013
	BT 130	2014-2016
	BT 131	2016-Current
4314	BT 45	2002-Current
CLEANING SYSTEMS		
Series	Model	Production Years
4703	RE 110 K	1990-1993
4709	SE 100	1990-1996
4710	RB 400 (OLD)	1990-1996
4718	RB 220 K	1990-1996
4719	RE 102 K	1990-1996
4758	SE 61	2010-2014
4774	SE 122	2010-Current
4784	SE 62	2014-Current
4789	RB 200	2017-Current
4790	RB 400	2017-Current
4791	RB 600	2017-Current
4792	RB 800	2017-Current
4950	RE 110 PLUS	2020-Current
4951	RE 90	2019-Current
SE01	SE33	2021-Current
CHAIN GRINDERS		
Series	Model	Production Years
5202	HOS	2001-Current
5203	USG	2001-Current
iMOW®		
Series	Model	Production Years
6301	RMI 422 P	2018-2020
6301	RMI 422 P C-L	2020-Current
6309	RMI 632 P	2018-Current
6309	632 P C-L	2020-Current

STIHL Model Codes

STIHL MODEL PREFIXES

Prefix	Description	Prefix	Description
BF	= Pick Style Tines	KM	= KombiMotor/Split Shaft Unit
BG	= Blower - Handheld	KMA	= KombiMotor/Split Shaft Unit - Battery-Powered
BGA	= Blower - Battery-Powered	KW	= STIHL PowerSweep™
BGE	= Blower - Electric-Powered	MF	= Lawn Dethatcher
BK	= Bolo Style Tines	MM	= STIHL YARD BOSS®
BR	= Blower - Backpack	MS	= Chain Saw
BT	= Earth Auger and Drill	MSA	= Chain Saw - Battery-Powered
FB	= Dedicated Bed Redefiner	MSE	= Chain Saw - Electric-Powered
FBD	= Bed Redefiner Attachment	PA	= Professional Axe
FC	= Edger	PH	= Professional Hedge Shear
FCA	= Edger - Battery-Powered	PL	= Professional Lopper
FH	= Power Scythe	PP	= Professional Pruner
FS	= Trimmer/Brushcutter	PS	= Professional Hand Saw
FSA	= Trimmer - Battery-Powered	RE	= Pressure Washer - Electric-Powered
FSB	= Curved-Shaft Trimmer Attachment for KM	RL	= Lawn Aerator
FSE	= Trimmer - Electric-Powered	RMA	= Lawn Mower - Battery-Powered
GS	= Deep Concrete Cutter	RMI	= Lawn Mower Robotic
GTA	= Garden Pruner - Battery-Powered	SE	= Vacuum - Electric-Powered
HL	= Extended Hedge Trimmer	SEA	= Vacuum - Battery-Powered
HLA	= Extended Hedge Trimmer - Battery-Powered	SG	= Sprayer - Manual
HS	= Hedge Trimmer	SGA	= Sprayer - Battery-Powered
HSA	= Hedge Trimmer - Battery-Powered	SH	= Shredder Vac / Blower
HSE	= Hedge Trimmer - Electric-Powered	SHA	= Shredder Vac / Blower - Battery-Powered
HT	= Pole Pruner	SR	= Sprayer/Blower - Backpack
HTA	= Pole Pruner - Battery-Powered	TS	= STIHL Cutquik® Cut-Off Machine
KB	= Bristle Brush	TSA	= STIHL Cutquik® Cut-Off Machine - Battery-Powered



The STIHL Inc. "Caring For Nature" seal identifies its powered products that are more environmentally conscious, producing zero- or low-exhaust emissions. STIHL Inc. defines "low-exhaust emissions" as being cleaner than EPA and/or CARB exhaust emissions standards.



Made in America

Indicates products that are made in the United States from domestic and foreign parts and components.

STIHL PRODUCT FEATURE DESIGNATIONS

To help you identify individual products with their built-in special features, we have developed the following model code system. This system is used throughout STIHL literature and other marketing materials. Look for the corresponding symbols below throughout the Product Information Guide. See examples below. Not all feature designations will appear on STIHL product nameplates.

CHAIN SAW FEATURE DESIGNATIONS

C Features

B	= QCA (Quick Chain Adjuster)
E	= Easy2Start™
i	= Electronic fuel injection
M	= STIHL M-Tronic™
O	= Oil sensor

Other Features

R	= Wrap handle
T	= Top handle (on the nameplate)

OTHER POWER TOOL FEATURE DESIGNATIONS (Not Chain Saws)

C Features

E	= Easy2Start™
M	= STIHL M-Tronic™

Other Features

A	= Electronic Water Control (EWC)
C-L	= LTE enabled
D	= Catalytic converter
K	= Short shaft (HL) (on the nameplate)
L	= Reduced noise
R	= Loop handle (FS), Cutter blade (HS) (on the nameplate)
T	= Trimmer blade (HS) (on the nameplate)
V	= Self propulsion
X	= Lightweight version (on the nameplate)

C designates a comfort feature.

Examples:

MS 211 C-BE

This saw has a Quick Chain Adjuster (**B**) and the Easy2Start™ system (**E**).

FS 40 C-E

This trimmer has the Easy2Start™ system (**E**).

STIHL Service Kits

Chain Saw Service Kits

Fits Models	Includes	Part Number
MS 170, MS 180	Air Filters, Fuel Filter and Spark Plug	1130 007 1800
MS 171, MS 181, MS 211	Air Filter, Fuel Filter and Spark Plug	1139 007 1800
MS 210, MS 230, MS 250	Air Filter, Fuel Filter and Spark Plug	1123 007 1800
MS 251	Air Filter, Fuel Filter and Spark Plug	1143 007 1800
MS 290, MS 310, MS 390	Air Filter, Fuel Filter and Spark Plug	1127 007 1800
MS 311 (w/ serial no. below 295 938 526), MS 391 (w/ serial no. below 295 938 026)	(Pre) Air Filter, (Main Air) Fuel Filter and Spark Plug	1140 007 1800
MS 261, MS 271, MS 291, MS 311 (w/ serial no. above 295 938 526), MS 391 (w/ serial no. above 295 938 026)	HD2 Air Filter, Fuel Filter and Spark Plug	1141 007 1800
MS 880, MS 881	Air Filter, Fuel Filter and Spark Plug	1124 007 4100
MS 462 C-M	Air Filter, Fuel Filter and Spark Plug	1142 007 4100
MS 661 C-M	Air Filter, Fuel Filter and Spark Plug	1144 007 4100
MS 500i	Air Filter, Fuel Filter and Spark Plug	1147 007 4100

Blower, Sprayers, & Shredder Service Kits

Fits Models	Includes	Part Number
BG 50, BG 55, BG 65, BG 85, SH 55, SH 85	Air Filter, Fuel Filter and Spark Plug	4229 007 1800
BG 56, BG 66, BG 86, SH 56 C-E, SH 86 C-E	Air Filter, Fuel Filter and Spark Plug	4241 007 1800
BR 500, BR 550, BR 600, BR 700	Air Filter, Dual Fuel Filter Assembly and Spark Plug	4282 007 1801
BR 800	Air Filter, Fuel Filter Assembly and Spark Plug	4283 007 4100
BR 350, BR 430, BR 450, BR 450 C-EF, SR 430, SR 450	Air Filter, Fuel Filter and Spark Plug	4244 007 1800

Edger, Trimmer, KombiMotor, Hedge Trimmer, & Pole Pruner Service Kits

Fits Models	Includes	Part Number
FC 56, FC 70, FS 40, FS 56, FS 70, HT 56, KM 56	Air Filter, Fuel Filter and Spark Plug	4144 007 1800
FS 38, FS 45, FS 46, FS 55, HL 45, KM 55	Air Filter, Fuel Filter and Spark Plug	4140 007 1800
BG 75, FS 75, FS 80, FS 85, KM 85, HL 75, HT 75	Air Filters, Fuel Filter and Spark Plug	4137 007 1800
FC 90, FC 95, FC 100, FC 110, FS 90, FS 100 RX, FS 110, HL 90, HL 100, HT 101, KM 90, KM 110	Air Filter, Fuel Filter and Spark Plug	4180 007 1800
FC 91, FC 96, FC 111, FS 91, FS 111, FS 111 RX, KM 91, KM 111, HT 102, HT 103	Air Filter, Fuel Filter, Spark Plug and Spark Arresting Screen	4180 007 1042
FS 131, FS 311, KM 131, FB 131, BT 131, HT 132, HT 131, HT 133	Air Filter, Fuel Filter, Spark Plug and Spark Arresting Screen	4180 007 1043

STIHL M-Tronic™ Service Kits

Fits Models	Includes	Part Number
MS 261 C-M (w/ serial no. above 507337395), MS 362 C-M	Solenoid Valve, Fuel Filter	1140 007 1802
MS 500i	Air Filter, Fuel Filter and Spark Plug	1147 007 4100
MS 661 C-M (w/ serial no. below 183981428)	Control Unit, Solenoid Valve, Fuel Filter	1144 007 1801
MS 661 C-M (w/ serial no. above 183981428)	Solenoid Valve, Fuel Filter	1140 007 1802

STIHL Tune Up Component Charts

Chain Saws

STIHL Model #	Air Filter	Spark Plug	Fuel Filter	Rope Diameter in Millimeters	Rope Length in Inches	ElastoStart™
009, 010 011, 012	1120 120 1600 NLA	"1110 400 7005 0000 400 7000"	0000 350 3502	3	42	N/A
MS 150 T Ms 151 T	1146 140 4402	0000 400 7011	0000 350 3513	2.7 Easy2Start™	31.5 Easy2Start™	0000 190 3502
MS 150 MS 151	1146 140 4403	0000 400 7011	0000 350 3513	2.7 Easy2Start™	31.5 Easy2Start™	0000 190 3502
017, 018	"1130 124 0800 1130 124 0801	"1110 400 7005 0000 400 7000"	0000 350 3500	3 2.7 Easy2Start™	31.5 36 Easy2Start™	0000 190 3402 N/A Easy2Start™
MS 170 MS 180	"1130 124 0800 1130 124 0801	"1110 400 7005 0000 400 7000"	0000 350 3500	3 2.7 Easy2Start™	31.5 36 Easy2Start™	0000 190 3402 N/A Easy2Start™
MS 171	1139 120 1602	0000 400 7011	0000 350 3500	3	33.5	0000 190 3402
MS 181 MS 211	1139 120 1602	0000 400 7011	0000 350 3500	3 2.7 Easy2Start™	33.5 35.8 Easy2Start™	0000 190 3402
019 T MS 190 T MS 191 T	1132 124 0800	"1110 400 7005 0000 400 7000"	0000 350 3502	3	31.5	N/A
020 T MS 200 T	1129 120 1607	"1110 400 7005 0000 400 7000"	0000 350 3518	3	29.5	0000 190 3409
MS 200	1129 120 1604	"1110 400 7005 0000 400 7000"	0000 350 3518	3	29.5	0000 190 3409
MS 201 T	1145 140 4400	0000 400 7011	0000 350 3522	3	29.5	0000 190 3409
MS 201 T C-M	1145 140 4404	0000 400 7011	0000 350 3522	3	29.5	0000 190 3409
MS 201	1145 140 4401	0000 400 7011	0000 350 3522	2.7 Easy2Start™	34.25	0000 190 3409
MS 192 T	1137 120 1600	"1110 400 7005 0000 400 7000"	0000 350 3502	2.7	31.5	0000 190 3402
MS 192	1137 120 1603	0000 400 7011	0000 350 3502	2.7 Easy2Start™	31.5	N/A
MS 193T	1137 120 1604	0000 400 7011	0000 350 3502	2.7 Easy2Start™	31.5	N/A
MS 193	1137 120 1607	0000 400 7011	0000 350 3502	2.7 Easy2Start™	31.5	N/A
MS 194 C	1137 120 1607	0000 400 7011	0000 350 3502	2.7	31.5	N/A
MS 194 T	1137 120 1604	0000 400 7011	0000 350 3502	2.7	31.5	N/A
021 023 025	1123 120 1613	"1110 400 7005 0000 400 7000"	0000 350 3500	3 2.7 Easy2Start™	31.5 36 Easy2Start™	0000 190 3402 N/A Easy2Start™
MS 210 MS 230 MS 250	1123 120 1613	"1110 400 7005 0000 400 7000"	0000 350 3500	3 2.7 Easy2Start™	31.5 36 Easy2Start™	0000 190 3402 N/A Easy2Start™
024	1121 120 1618	"1110 400 7005 0000 400 7000"	0000 350 3518	3.5	38	0000 190 3401
MS 241 C-M	1141 140 4400	0000 400 7011	0000 350 3502	3	29.6	0000 190 3409

STIHL Tune Up Component Charts

STIHL Model #	Air Filter	Spark Plug	Fuel Filter	Rope Diameter in Millimeters	Rope Length in Inches	ElastoStart™
026	1121 120 1612 Non compensating	1110 400 7005 0000 400 7000	0000 350 3518	3.5	38	0000 190 3401
026 PRO	1121 120 1618 compensating	1110 400 7005 0000 400 7000	0000 350 3518	3.5	38	0000 190 3401
031	1113 120 1603	1110 400 7005	0000 350 3500	3.5	38	N/A
032	1113 120 1603	1110 400 7005	0000 350 3500	3.5	42	N/A
038	1119 120 1611	0000 400 7005 1110 400 7005	0000 350 3518	4.5	39	1122 190 3400

MS 260 MS 260 PRO	1121 120 1618	1110 400 7005 0000 400 7000	0000 350 3518	3.5	38	0000 190 3401
MS 261 MS 261 C-M	1141 140 4400	1110 400 7005 0000 400 7000	0000 350 3518	3.5	38	0000 190 3401
MS 270 MS 280	1133 120 1604	1110 400 7005 0000 400 7000	0000 350 3518	3.5	38	0000 190 3401
MS 271 MS 291	1141 120 1600	1110 400 7005 0000 400 7000	0000 350 3518	3.5 3 Easy2Start™	38 38 Easy2Start™	N/A
028	1118 120 1611	1110 400 7005 0000 400 7000	0000 350 3500	3.5	38 Plastic 42 Metal Housing	N/A
029, 039	*1127 120 1621 *compensating	1110 400 7005 0000 400 7000	0000 350 3500	3.5	38	1128 190 3400
029, 039	**1127 120 1611 **non compensating	1110 400 7005 0000 400 7000	0000 350 3500	3.5	38	1128 190 3400
MS 311 MS 391	1141 120 1600	1110 400 7005 0000 400 7000	0000 350 3518	3.5	38	N/A
034	1125 120 1615 1125 120 1620	1110 400 7005 0000 400 7000	0000 350 3518	3.5	38	1128 190 3400
036 036 PRO	1125 120 1615 1125 120 1620 non compensating Up to S/N 232 622 639	1110 400 7005 0000 400 7000	0000 350 3518	3.5	38	1128 190 3400
036 036 PRO	1125 120 1626 Compensating After S/N 232 622 640	1110 400 7005 0000 400 7000	0000 350 3518	3.5	38	1128 190 3400
MS 360 MS 360 PRO	1125 120 1626	1110 400 7005 0000 400 7000	0000 350 3518	3.5	38	1128 190 3400
MS 361	1135 120 1600	1110 400 7005 0000 400 7000	0000 350 3518	3.5	38	1128 190 3400
MS 362	1140 140 4500 Prefilter 1140 140 4401 Filter	1110 400 7005 0000 400 7000	0000 350 3518	3.5	38	1128 190 3400

STIHL Tune Up Component Charts

STIHL Model #	Air Filter	Spark Plug	Fuel Filter	Rope Diameter in Millimeters	Rope Length in Inches	ElastoStart™
MS 362 C-M	1141 140 4400 HD 2	1110 400 7005 0000 400 7000 After SN 183609631 0000 400 7011	0000 350 3518	3.5	38	1128 190 3400
044, 046 MS 440 MS 460 MS 461	0000 140 4402 HD 2	1110 400 7005 0000 400 7005	0000 350 3518	3.5	38	1128 190 3400
MS 441 MS 441 C-M	0000 140 4402 HD 2	1110 400 7005 0000 400 7000	0000 350 3518	3.5	38	1128 190 3400
MS 462	1142 140 4402	0000 400 7011	0000 350 3518	3.5	38	1128 190 3400
064, 066 MS 650 MS 660	0000 140 4402 HD 2	1110 400 7005 0000 400 7000	0000 350 3518	4.5	39.5	1122 190 3400
MS 500i	1144 140 4402	0000 400 7011	0000 350 3518	3.5	38	1128 190 3400
MS 661 C-M MS 661 C-M v3	1144 140 4402	1110 400 7005 0000 400 7000	0000 350 3518	4.5	39.5	1122 190 3400
084, 088, MS 880	0000 140 4402 HD 2	1110 400 7005 0000 400 7000	0000 350 3518	4.5	39.5	1122 190 3400

Pole Pruners

HT 56	4144 124 2800	0000 400 7011	0000 350 3513	2.7 Easy2Start™	36	N/A
HT 70	4137 124 2800	1110 400 7005 0000 400 7000	0000 350 3502	2.7	36	0000 190 3403
HT 73	4141 141 0600 Prefilter 4141 124 0800 Filter - NLA	0000 400 7007	NLA	3	31.5	0000 190 3403
HT 75	4137 124 2800	1110 400 7005 0000 400 7000	0000 350 3502	3	31.5	0000 190 3403
HT 100 HT 101	4180 120 1800	0000 400 7009	0000 350 3502	3	33.5	N/A
HT 102 HT 103 HT 105	4180 141 0300	0000 400 7009	0000 350 3521	3	33.5	N/A
HT 130 HT 131	4180 120 1800	0000 400 7009	0000 350 3502	3	33.5	N/A
HT 132 HT 133 HT 134 HT 135	4180 141 0300	0000 400 7011	0000 350 3521	3	33.5	N/A
HT 250	4134 141 0300	1110 400 7005 0000 400 7000	0000 350 3502	3	33.5	N/A

Blowers

BG 45, BG50 BG 55, BG 65, BG 85, SH 55, SH 85	4229 120 1800	1110 400 7005 0000 400 7000	0000 350 3502	3	42	N/A
BG 56, BG 66, BG 86, SH 56, SH 86	4241 120 1800 4241 140 4401 4241 140 4403 - HD2	0000 400 7011	0000 350 3502	3 3 Easy2Start™	42 42 Easy2Start™	0000 190 3404 N/A Easy2Start™
BR 320, BR400 SR 320, SR400	4203 141 0300 4203 141 0310	1110 400 7005 0000 400 7000	0000 350 3502	3.5	38	0000 190 3401

STIHL Tune Up Component Charts

STIHL Model #	Air Filter	Spark Plug	Fuel Filter	Rope Diameter in Millimeters	Rope Length in Inches	ElastoStart™
BR 340, BR 380, BR 420, SR 340, SR 380, SR 420	4203 141 0301 4203 120 1500	1110 400 7005 0000 400 7000	0000 350 3502	3.5	38	0000 190 3401
BR 350	4223 141 0300	1110 400 7005 0000 400 7000	0000 350 3502	3.5	38	N/A
BR 420	4203 141 0301	1110 400 7005 0000 400 7000	0000 350 3502	3.5	38	0000 190 3401
BR 430, BR 450 SR 430, SR 450	4223 141 0300	1110 400 7005 0000 400 7000	0000 350 3502	3.5	38	0000 190 3401
BR 500, BR 550, BR 600, BR 700, BR 700 X	4282 141 0300	0000 400 7011	4282 007 3600	3.5	38	N/A
BR 800 BR 800 C	4283 141 0300 4283 141 0300	0000 400 7011 0000 400 7011	0000 350 3518 0000 350 3518	3.5 3.0	38 59	N/A

Line Trimmers

FS 36 FS 40	NLA 4130 124 0800	4112 400 7001	0000 350 3502	3.5	33.5	0000 190 3403
FS 44	4130 124 0800	4112 400 7001	0000 350 3502	3.5	33.5	0000 190 3403
FS 38 FS 45 FS 46	NLA 4140 124 2800	"1110 400 7005 0000 400 7000"	0000 350 3506	3 2.7 Easy2Start™	42 36 Easy2Start™	N/A 0000 190 3404 N/A
FS 55 KM 55	4140 124 2800	"1110 400 7005 0000 400 7000"	0000 350 3502	3 2.7 Easy2Start™	42 36 Easy2Start™	N/A 0000 190 3404 N/A
FS 40, FS 50 FS 56 New 4144 Series	4144 124 2800	0000 400 7011	0000 350 3513	2.7 Easy2Start™	36 Easy2Start™	N/A
FS 70	4144 124 2800	0000 400 7011	0000 350 3513	2.7	36	N/A
FS 75	4137 124 1501 Prefilter - NLA 4137 124 2801 Filter - NLA	"1110 400 7005 0000 400 7000"	0000 350 3502	2.7	36	0000 190 3403
FS 80 FS 85 KM 85	4137 124 1501 Prefilter - NLA 4137 124 2801 Filter - NLA	1110 400 7005 0000 400 7000	0000 350 3502	2.7	36	0000 190 3403
FS 83	4141 141 0600 Prefilter - NLA 4141 124 0800 Filter - NLA	0000 400 7007	4141 350 3500 NLA	3	31.5	0000 190 3403
FS 90, FS 100 RX, FS 110, KM 110 R	4180 120 1800	0000 400 7009	0000 350 3502	3	33.5	N/A
FS 91, FS 111 KM 91, KM 111	4180 141 0300	0000 400 7009	0000 350 3521	3	33.5	N/A
FS 131 KM 131	4180 141 0300	0000 400 7011	0000 350 3521	3	33.5	N/A
FS 94	4149 120 1800	0000 400 7011	0000 350 3503	2.7	36	N/A
FS 120, FS 200 FS 250	4134 141 0300	1110 400 7005 0000 400 7000	0000 350 3502	3	33.5	N/A
FS 240	4147 141 0300	0000 400 7011	0000 350 3521	3	40	N/A
FS 130	4180 120 1800	0000 400 7011	0000 350 3502	3	33.5	N/A

STIHL Tune Up Component Charts

STIHL Model #	Air Filter	Spark Plug	Fuel Filter	Rope Diameter in Millimeters	Rope Length in Inches	ElastoStart™
FS 310	4134 141 0300	0000 400 7011	0000 350 3502	3	33.5	N/A
FS 350	4134 141 0300	1110 400 7005 0000 400 7000	0000 350 3502	3	33.5	0000 190 3405
FS 360	4147 141 0300	0000 400 7011	0000 350 3502	3	40	N/A
FS 450	4134 141 0300	1110 400 7005 0000 400 7000	0000 350 3506	3	33.5	0000 190 3405
FS 460	4147 141 0300	0000 400 7011	0000 350 3502	3	40	N/A
FS 550	4116 120 1602 4116 141 0300	1110 400 7005 0000 400 7000	0000 350 3502	3.5	38	0000 190 3401
FS 560	4148 141 0300	1110 400 7005 0000 400 7000	0000 350 3502	3	40	N/A

Edgers

FC 55 C-E	4140 124 2800	1110 400 7005 0000 400 7000	0000 350 3502	3	42	0000 190 3404
FC 56 FC 70 C-E (4144)	4144 124 2800	0000 400 7011	0000 350 3513	2.7	40	N/A
FC 73 FC 83	4141 141 0600 Prefilter - NLA 4141 124 0800 Filter - NLA	0000 400 7007	4141 350 3500 NLA	3	31.5	0000 190 3403
FC 75	4137 124 1500 Prefilter 4137 124 2800 Filter	1110 400 7005 0000 400 7000	0000 350 3502	2.7	36	0000 190 3400
FC 90 FC 95 FC 100 FC 110	4180 120 1800	0000 400 7009	0000 350 3502	3	33.5	N/A
FC 91 FC 96 FC 111 FB 131	4180 141 0300	0000 400 7009	0000 350 3521	3	33.5	N/A

Augers and Drills

BT 45	4314 124 2800	1110 400 7005 0000 400 7000	0000 350 3503	3	41.75	0000 190 3404
BT 120 C BT 121	4134 141 0300	1110 400 7005 0000 400 7000	0000 350 3502	3	33.5	0000 190 3405
BT 130	4134 141 0300	0000 400 7011	0000 350 3502	3	33.5	N/A
BT 131	4180 141 0300	0000 400 7011	0000 350 3521	3	33.5	N/A

Hedge Trimmers

HS 45	4228 124 1500 Prefilter 4140 124 2800 Filter	1110 400 7005 0000 400 7000	0000 350 3503	3	42	0000 190 3404
HS 46 HS 56	4242 120 1800	0000 400 7011	0000 350 3503	2.7 Easy2Start™	36	N/A

STIHL Tune Up Component Charts

STIHL Model #	Air Filter	Spark Plug	Fuel Filter	Rope Diameter in Millimeters	Rope Length in Inches	ElastoStart™
HS 60 HS 61	4211 141 0300 Prefilter 4210 141 0302 Filter	0000 400 7000	0000 350 3502	3.5	31.5	N/A
HS 72 HS 74 HS 76	4137 120 1500 Prefilter 4133 124 2800 Filter - NLA	1110 400 7005 0000 400 7000	0000 350 3503	3	31.5	N/A
HS 75 HS 80 HS 85	4137 124 1500 Prefilter 4137 124 2800 Filter	1110 400 7005 0000 400 7000	0000 350 3503	2.7	36	0000 190 3403
HS 81 HS 86	4237 141 0300	0000 400 7009	0000 350 3503	2.7 Easy2Start™	40 36	N/A
HS 82 HS 87	4237 120 1800	0000 400 7011	0000 350 3503	2.7	40	N/A
HL 45	4140 124 2800	1110 400 7005 0000 400 7000	0000 350 3502	3	41.75	N/A
HL 56	4144 124 2800	0000 400 7011	0000 350 3513	2.7	36	N/A
HL 73	4141 141 0600 Prefilter - NLA 4141 124 0800 Filter - NLA	0000 400 7007	4141 350 3500 NLA	3	31.5	0000 190 3403
HL 75	4137 124 1501 Prefilter - NLA 4137 124 2801 Filter - NLA	1110 400 7005 0000 400 7000	0000 350 3502	2.7	36	0000 190 3403
HL 90	4180 120 1800	0000 400 7009	0000 350 3502	3	33.5	N/A
HL 91	4180 141 0300	0000 400 7009	0000 350 3521	3	33.5	N/A
HL 94	4149 120 1800	0000 400 7011	0000 350 3503	2.7	36	N/A
HL 100	4180 120 1800	0000 400 7009	0000 350 3502	3	33.5	N/A

Cut-Off Machine Chart

STIHL Model #	Air Filter	Spark Plug	Fuel Filter	Drive Belt	Rope Dia. in mm	Rope Length in inches	ElastoStart™ Rope with grip	ElastoStart™ Rope in bulk
TS 350	4201 141 0300 4201 141 0310 4201 140 1801	1110 400 7005 0000 400 7000	0000 350 3500	9490 000 7850	4.5	39.5	0000 190 3414	0000 930 2200
TS 400 S/N >138430817	4223 007 1010	1110 400 7005 0000 400 7000	0000 350 3500	9490 000 7851	4.5	39.5	0000 190 3414	0000 930 2267
TS 410 TS 420	4238 140 4404	1110 400 7005 0000 400 7000	0000 350 3502	(12" TS 410) 9490 000 7901 (14" TS 420) 9490 000 7900	4.5	39.5	0000 190 3414	0000 930 2295
TS 440	4238 140 4404	1110 400 7005 0000 400 7000	0000 350 3502	4238 007 1004 Drive belt kit	4.5	39.5	0000 190 3414	0000 930 2295

STIHL Tune Up Component Charts

STIHL Model #	Air Filter	Spark Plug	Fuel Filter	Drive Belt	Rope Dia. in mm	Rope Length in inches	ElastoStart™ Rope with grip	ElastoStart™ Rope in bulk
TS 480i TS 500i	4238 140 4404	1110 400 7005 0000 400 7000	4250 350 3501	(12") 9490 000 7901 (14") 9490 000 7900	4	39.5	0000 190 3414	0000 930 2295
TS 460	4221 007 1002	1110 400 7005 0000 400 7000	0000 350 3500	9490 000 7850	4.5	39.5	0000 190 3414	0000 930 2295
TS 510 TS 760	4221 007 1002	1110 400 7005 0000 400 7000	0000 350 3518	(14") 9490 000 7892 (16") 9490 000 7895	4.5	39.5	0000 190 3414	0000 930 2295
TS 700	4224 007 1013	1110 400 7005 0000 400 7000	0000 350 3518	9490 000 7920	4.5	39.5	0000 190 3414	0000 930 2295
TS 800	4224 007 1013	1110 400 7005 0000 400 7000	0000 350 3518	9490 000 7915	4.5	39.5	0000 190 3414	0000 930 2295

Pressure Washers

STIHL Model #	Air Filter	Spark Plug	Fuel Tank Filter	Starter Rope with Handle	Replacement High Pressure Hose	Set of Nozzles
RB 200	4789 124 1500	4789 400 7000	4789 358 1800	4789 190 3500	4925 500 0817	4790 007 1000
RB 400	4790 140 4400	4790 400 7000	4790 358 1800	4789 190 3500	4925 500 0817	4790 007 1000
RB 600	4791 140 4400	4790 400 7000	4790 358 1800	4789 190 3500	4925 500 0809	4791 007 1000
RB 800	4792 140 4400	4790 400 7000	4790 358 1800	4792 190 3500	4925 500 0811	4792 007 1000

STIHL Spark Plug Reference Guide

	BOSCH	NGK
BACKPACK BLOWERS		
BR 45, 320, 320 L, 340, 340 L, 350, 380, 400, 420, 430, 450, 450 C	WSR6F	BPMR7A
BR 200, 500, 550, 600, 700, 800		CMR6H
BACKPACK SPRAYERS		
SR 200		CMR6H
SR 320, 340, 400, 420, 430, 450	WSR6F	BPMR7A
BED REDEFINER		
FB 131	CMR6H	
CHAIN SAWS		
<i>Previous models</i>		
009, 010, 011, 012, 015, 017, 018, 019 T, 020 T, 021, 023, 024, 025, 026, 028, 029, 031, 032, 034, 036, 038, 039, 041, 044, 046, 048, 051, 056, 064, 066, 070, 076, 088	WSR6F	BPMR7A
<i>MS models</i>		
170, 180, 191 T, 192 T, 200, 200 T, 210, 230, 250, 260, 261, 270, 271, 280, 290, 291, 310, 311, 360, 361, 362, 390, 391, 440, 441, 460, 461, 650, 660, 661, 880, 881	WSR6F	BPMR7A
150, 150 T, 151, 151 T, 171, 181, 192, 193, 193 T, 194, 194 T, 201, 201 T, 211, 241, 251, 362 (latest version), 400, 462, 500i		CMR6H
CONCRETE CUTTER		
GS 461	WSR6F	BPMR7A
CUTOFF MACHINES		
TS 350, 360, 400, 410, 420, 440, 460, 480i, 500i, 510, 700, 760, 800	WSR6F	BPMR7A
EARTH AUGERS		
BT 45, 120, 121	WSR6F	BPMR7A
BT 130, 131		CMR6H
EDGERS		
FC 44		BMR6A
FC 55, 72, 75, 85	WSR6F	BPMR7A
FC 56, 70		CMR6H
FC 83		CMR7A
FC 90, 91, 95, 96, 100, 110, 111	USR7AC	

	BOSCH	NGK
HANDHELD BLOWERS		
BG 45, 46, 50, 55, 65, 72, 75, 85	WSR6F	BPMR7A
BG 56, 66, 86		CMR6H
HEDGE TRIMMERS		
HL 45, 75	WSR6F	BPMR7A
HL 56, 91, 94		CMR6H
HL 73		CMR7A
HL 90, 95, 100, 111	USR7AC	
HS 45, 72, 74, 75, 76, 80, 85	WSR6F	BPMR7A
HS 46, 56, 82, 87		CMR6H
HS 60, 61		BPMR7A
HS 81, 86	USR7AC	
KOMBI-MOTORS		
KM 55, 85	WSR6F	BPMR7A
KM 56, 94		CMR6H
KM 90, 91, 110, 111	USR7AC	
KM 130, 131		CMR6H
POLE PRUNERS		
HT 56, 130, 131, 132, 133, 134, 135		CMR6H
HT 75, 250	WSR6F	BPMR7A
HT 100, 101, 102, 103, 105	USR7AC	
SHREDDER VAC / BLOWERS		
SH 55, 85	WSR6F	BPMR7A
SH 56, 86		CMR6H
TRIMMERS		
FS 36, 40 (old), 44		BMR6A
FS 40 (new), 50, 56, 70, 94, 130, 131, 240, 310, 311, 360, 460		CMR6H
FS 38, 45, 46, 55, 72, 74, 75, 76, 80, 85, 120, 200, 250, 350, 450, 550, 560	WSR6F	BPMR7A
FS 83		CMR7A
FS 90, 91, 100, 110, 111	USR7AC	
YARD BOSS®		
MM 55		BPMR7A
MM 56		CMR6H
CHAMPION		
PRESSURE WASHERS		
RB 200	RA8HC	
RB 400, 600, 800	RC12YC	

Bulk Starter Rope, Ignition Lead, and Fuel Line Charts

ElastoStart™ Components (for specific unit models use parts list)

Description	Rope Diameter in Millimeters	Part Number
ElastoStart™ Assembly	3.5	0000 190 3401
ElastoStart™ Assembly	3.0	0000 190 3403
ElastoStart™ Assembly	2.7	0000 190 3403
ElastoStart™ Assembly	3.0	0000 190 3404
ElastoStart™ Assembly	3.0	0000 190 3405
ElastoStart™ Replacement Rope	4.5	1122 190 2900
ElastoStart™ Assembly	4.5	1122 190 3400
ElastoStart™ Replacement Rope	3.5	1123 190 2900
ElastoStart™ Replacement Rope	3.5	1128 190 2900
ElastoStart™ Assembly	3.5	1128 190 3400
ElastoStart™ Replacement Rope Reel (28 per spool)	3.5	0000 930 2267
ElastoStart™ Replacement Rope Reel (28 per spool)	4.5	0000 930 2268

200' Reels of Starter Rope

Rope Diameter in Millimeters	Part Number
2.7	0000 930 2210
3.0	0000 930 2211
3.5	0000 930 2212
4.5	0000 930 2213

Ignition Lead Wire

Description	Part Number
33' of Ignition Lead Wire	0000 930 2251

Shop Supplies

Description	Part Number
Dirko High Temp Sealant	0783 830 2000
STIHL Service Tags	0000 000 2210
Press Fluid	0781 957 9000

ROPE WARRANTY PART #: **4237 195 8200**



To warranty
1 starter rope
use this part.

Fuel Line

Description	Length in Feet	Length in Meters	Part Number
Black 3.1 mm x 5.7 mm (R3)	32.8	10	0712 923 8004
Grey 3.1 mm x 5.7 mm (R5)	3.28	1	0000 937 5004

Return Line

Description	Length in Feet	Length in Meters	Part Number
Black 2.2 mm x 5.5 mm (R1)	3.28	1	0000 930 2802
Black 2.2 mm x 5.5 mm (R5)	3.28	1	0000 937 5006

Vent Line

Description	Length in Feet	Length in Meters	Part Number
Black 3.0 mm	9.8	3	0000 930 2207

11 Digit Part Numbers for STIHL Units & Attachments

Unit	11 Digit Part Number	Unit	11 Digit Part Number
BG 50	4229 011 1722	FS 111 R	4180 200 0509
BG 56 C-E	4241 011 1755	FS 111 RX	4180 200 0510
BG 66 L	4241 011 1759	FS 131	4180 200 0512
BG 86	4241 011 1763	FS 131 R	4180 200 0511
BG 86 C-E	4241 011 1764	FS 240	4147 200 0204
BGA 100	4866 011 5901	FS 240 R	4147 200 0203
BGA 200	BA01 011 5901	FS 311	4180 200 0513
BGA 45	4513 011 5902	FS 360 C-E	4147 200 0224
BGA 56	4523 011 5941	FSA 45	4512 011 5702
BGA 56 UNIT	4523 011 5931	FSA 56 UNIT Only	4522 011 5701
BGA 57	4523 011 5991	FSA 56	4522 011 5711
BGA 57 UNIT	4523 011 5961	FSA 65	4852 011 5702
BGA 85	4853 011 5901	FSA 57 UNIT Only	4522 011 5761
BGA 86	BA02 011 5901	FSA 57	4522 011 5771
BGE 61	4811 011 1513	FSA 85	4852 011 5703
BGE 71	4811 011 1540	FSA 90 R	4863 011 5721
BR 200	4241 011 1606	FSA 130 R	4867 011 5721
BR 350	4244 011 1601	FSA 135 LOOP	FA01 200 0011
BR 430	4244 011 1621	FSA 135 BIKE	FA01 200 0006
BR 450	4244 011 1634	FSE 60	4809 011 4130
BR 500	4282 011 1633	GTA 26	GA01 011 6911
BR 600	4282 011 1632	HL 45	4232 200 0002
BR 700	4282 011 1638	HL 56	4236 200 0000
BR 700 X	4282 011 1641	HL 91 K O	4243 200 0020
BR 800 C-E	4283 011 1600	HL 94 145	4243 200 0025
BR 800 X	4283 011 1610	HL 94 K O	4243 200 0018
BT 131	4313 011 2121	HL 94 K 145	4243 200 0017
BT 45 EAD	4314 200 0004	HLA 65	4859 011 2901
BT 45 WBD	4314 200 0003	HLA 85	4859 011 2921
FB 131	4180 011 6500	HOS	5202 200 0003
FC 111	4180 011 1915	HS 45 18	4228 011 2928
FC 56 C-E	4144 011 1908	HS 46 C-E	4242 011 2906
FC 70	4144 011 1910	HS 56	4242 011 2908
FC 91	4180 011 1913	HS 81 T 24	4237 011 2903
FC 96	4180 011 1914	HS 82 R 24	4237 011 2980
FCA 135	FA02 011 7802	HS 82 R 30	4237 011 2981
FCA 140	FA02 011 7800	HS 82 T 24	4237 011 2987
FS 111	4180 200 0508	HS 82 T 30	4237 011 2988
FS 111 R	4180 200 0509	HS 86 R 30	4237 011 2931
FS 111 RX	4180 200 0510	HS 87 R 30	4237 011 2992
FS 131	4180 200 0512	HS 87 T 30	4237 011 2997
FS 131 R	4180 200 0511	HS 87 T 40	4237 011 2998
FS 240	4147 200 0204	HSA 25	4515 011 3505
FS 240 R	4147 200 0203	HSA 26	HA03 011 3507

11 Digit Part Numbers for STIHL Units & Attachments

Unit	11 Digit Part Number	Unit	11 Digit Part Number
HS 45 18	4228 011 2928	MS 171 16	1139 200 0246
HS 46 C-E	4242 011 2906	MS 180 16	1130 200 0448
HS 56	4242 011 2908	MS 180 C-BE 16	1130 200 0372
HS 82 R 24	4237 011 2980	MS 181 C-BE 16	1139 200 0204
HS 82 R 30	4237 011 2981	MS 194 C-E	1137 011 3071
HS 82 T 24	4237 011 2987	MS 194 T	1137 011 3057
HS 82 T 30	4237 011 2988	MS 201 C-EM	1145 011 3025
HS 87 R 30	4237 011 2992	MS 201 T C-M	1145 011 3028
HS 87 T 30	4237 011 2997	MS 211 18	1139 200 0355
HS 87 T 40	4237 011 2998	MS 211 C-BE 18	1139 200 0356
HSA 26	HA03 011 3507	MS 250 18	1123 200 0722
HSA 26 UNIT	HA03 011 3501	MS 251 18	1143 200 0492
HSA 45	4511 011 3502	MS 251 C-BE 18	1143 200 0437
HSA 56	4521 011 3511	MS 261 C-M	1141 011 3095
HSA 56 UNIT	4521 011 3501	MS 271 18	1141 200 0605
HSA 66	4851 011 3522	MS 271 20	1141 200 0582
HSA 94 R 24	4869 011 3505	MS 291 18	1141 200 0589
HSA 94 T 24	4869 011 3513	MS 291 20	1141 200 0583
HSE 52	4818 011 3513	MS 311	1140 011 3018
HSE 70	4812 011 3541	MS 362 C-M	1140 012 3020
HT 103	4182 200 0155	MS 362 R C-M	1140 012 3021
HT 105	4182 200 0195	MS 391	1140 011 3038
HT 131	4182 200 0186	MS 400 C-M	1140 011 3092
HT 132	4182 200 0156	MS 461	1128 012 3020
HT 134	4182 200 0196	MS 461 Wrap	1128 012 3021
HT 135	4182 200 0201	MS 462	1142 011 3024
HT 250	4134 200 0457	MS 462 C-M	1142 011 3020
HT 56 C-E	4139 200 0011	MS 462 R	1142 011 3025
HTA 135 10	LA01 200 0001	MS 462 R C-M	1142 011 3021
HTA 65	4857 011 6421	MS 462 RESCUE	1142 011 3023
HTA 66 10	LA03 011 6411	MS 500i	1147 011 3002
HTA 85	4857 011 6401	MS 500i R	1147 011 3003
HTA 86 10	LA03 011 6431	MS 661	1144 011 3060
KM 111 R	4180 200 0504	MS 661 C-M	1144 011 3062
KM 131 R	4180 200 0505	MS 661 R	1144 011 3061
KM 56 RC-E	4144 200 0017	MS 661 R C-M	1144 011 3063
KM 91 R	4180 200 0503	MS 880	1124 011 3017
KM 94 R	4149 200 0062	MS 881	1124 011 3037
KMA 130 R	4867 011 6821	MS 880 R	1124 011 3018
KMA 135 R	FA02 011 6801	MS 881 R	1124 011 3038
MM 56 C-E	4604 011 5403	MS261	1141 012 3000
MS 151 C-E	1146 011 3031	MS362	1140 012 3022
MS 151 T C-E	1146 011 3030	MSA 120 C-B 12	1254 011 5881
MS 170 16	1130 200 0370	MSA 120 C-B UNIT	1254 011 5871

11 Digit Part Numbers for STIHL Units & Attachments

Unit	11 Digit Part Number	Unit	11 Digit Part Number	Batteries	11 Digit Part Number
MSA 140 C-B 12	1254 011 5851	TS 440	4238 011 2828	AR 1000	4865 400 6506
MSA 140 C-B UNIT	1254 011 5841	TS 500I	4250 011 2811	AR 2000	4865 400 6511
MSA 160 C-B	1250 011 5806	TS 700	4224 011 2801	AR 2000 L	4871 400 6511
MSA 161 T	1252 011 5814	TS 800	4224 011 2821	AR 3000	4865 400 6521
MSA 200 C-B	1251 011 5806	TSA 230	4864 011 6601	AR 3000 L	4871 400 6521
MSA 220 C-B	1251 011 5811	KM/MM Attachment	11 Digit Part Number	AL 1	EA03 430 2502
MSE 141	1208 011 4052	BF-KM	4601 740 5001	AL 101	4850 430 2522
MSE 170 C-B	1209 011 4006	BG-KM	4606 740 5001	AL 300	4850 430 5502
MSE 210 C-B	1209 011 4024	FBD-KM	4180 740 5000	AL 301-4	EA04 430 5502
MSE 250	1210 011 4002	FCB-KM	4180 740 5003	AL 500	4850 430 5702
RB 200	4789 012 4600	FCS-KM	4180 740 5009	Hand Tools	11 Digit Part Number
RB 400	4790 012 4600	FH-KM	4243 740 5007	PL 5	7010 882 0705
RB 600	4791 012 4600	FSB-KM	4137 740 5009	PL 10	0000 882 0701
RB 800	4792 012 4600	FS-BLADE-KM	4180 200 0472	PL 30	0000 882 0702
RE 110	4950 012 4525	FS-LINE-KM	4180 200 0471	PL 40	0000 882 0703
RE 80	RE02 011 4511	HL-KM O	4243 740 5001	PP 10	0000 882 0704
RE 90	4951 012 4504	HL-KM O 145	4243 740 5004	PP 100	0000 882 0708
RE 90 PLUS	RE02 011 4523	HL-KM O 145 24	4243 740 5009	PP 101	7010 871 0407
RMA 460 UNIT	6368 011 1400	HT-KM	4182 200 0210	PP 30	0000 882 0705
RMA 460 V UNIT	6368 011 1410	HT-KM 10	4182 200 0219	PP 40	0000 882 0706
RMA 510 UNIT	6372 011 1400	KB-KM	4601 740 4901	PP 60	7010 881 3603
RMA 510 V UNIT	6372 011 1410	KW-KM	4601 740 4900	PP 600	7010 881 4102
RMI 422 P	6301 011 1495	RG-KM	4180 740 5007	PP 70	0000 882 0707
RMI 422 PC-L	6301 011 1449	BF-MM	4601 740 4605	PP 80	7010 882 0702
RMI 632 P	6309 011 1495	BK-MM	4601 740 4606	PP 800	7010 881 4103
RMI 632 PC-L	6309 011 1489	FCS-MM	4601 740 4603	PP 900	7010 882 0700
SE 122	4774 012 4407	FS-MM	4601 740 4609	PS 10	0000 882 0901
SE 33	SE01 012 4410	KB-MM	4601 740 4608	PS 30	0000 882 0902
SE 62	4784 012 4406	KW-MM	4601 740 4604	PS 40	7010 882 0900
SG 11	4255 019 4911	MF-MM	4601 740 4607	PS 60	7010 882 0901
SG 20	4247 019 4902	RL-MM	4601 740 4600	PS 70	0000 882 0905
SG 31	4255 019 4931	Batteries	11 Digit Part Number	PS 75	7010 881 4101
SG 51	4255 019 4951	AS 2	EA02 400 6501	PS 80	0000 882 0906
SG 71	4255 019 4971	AK 10	4520 400 6516	PS 90	7010 882 0903
SGA 85	4854 011 7001	AK 20	4520 400 6519	PS 30	0000 882 0902
SH 56 C-E	4241 011 0934	AK 30	4520 400 6513	PS 40	7010 882 0900
SH 86 C-E	4241 011 0939	AP 100	4850 400 6551	PS 60	7010 882 0901
SHA 56 UNIT	SA02 011 7101	AP 200	4850 400 6561	PS 70	0000 882 0905
SR 200	4241 011 2602	AP 300	4850 400 6571	PS 75	7010 881 4101
SR 430	4244 011 2601	AP 300 S	4850 400 6581	PS 80	0000 882 0906
SR 450	4244 011 2643			PS 90	7010 882 0903
TS 410	4238 011 2823			Chain Grinder	11 Digit Part Number
TS 420	4238 011 2821			USG	5203 200 0009

Bar Selection for Older Saws

Unit	Guide Bar Length	Pitch/Gauge	Drive Link	Bar Number				
				Rollomatic®	Rollomatic® ES	Duromatic®		
012, 015, 015L, 020, (1114) E10, 011, 010	12"	3/8P .050	44	3005 000 4805				
	14"		50	3005 000 4809				
	16"		55	3005 000 4813				
	18"		61	3005 000 4817				
	16"	0.325 .063	62	3005 000 4713				
	18"		68	3005 008 4717				
	14"	1/4P .050	72	3005 000 6409				
	16"		80	NLA				
08S, 08, S10	17"	3/8 .063	66	3002 000 9115		NLA		
	21"		75	3002 000 9123		NLA		
	25"		88	NLA	NLA	NLA		
	17"	.404 .063	60	NLA		NLA		
	21"		68	NLA		NLA		
	25"		80	3002 000 9731	NLA	NLA		
040, 042, 048, 046,045, E15	16"	3/8 .050	60	3003 008 8913	3003 000 8813	3003 000 8613		
	18"		66	3003 008 8917	3003 000 8817	NLA		
	20"		72	3003 008 8921	3003 000 8822	3003 000 8621		
	25"		84	3003 000 7831	3003 000 8830	3003 000 5531		
	28"		91		3003 000 8838			
	32"		105		3003 000 8846			
	36"		114		3003 000 8853			
	16"	3/8 .063	60	3003 000 6113	3003 001 9413			
	18"		66	NLA	3003 000 9417			
	20"		72	3003 008 6121	3003 000 9421			
	25"		84	3003 000 5231	3003 000 9431	3003 001 5631		
	28"		91		3003 000 6038			
	30"		98		3003 000 6041			
	32"		105		3003 000 6046			
	38"		114		3003 000 6053			
	041G		20"	.404 .063	66	3003 000 9721 *	3003 001 9221	
			24"		76	3003 000 9731 *	3003 001 5631	
050, 051, 075, 076, 070, 090, 090G	17"	.404 .063	60		NLA	NLA		
	21"		68		NLA	NLA		
	25"		80		3002 000 9731	NLA		
	30"		91		3002 000 9741 *	3002 000 8041		
	33"		99		NLA			
	36"		108		3002 000 9753 *			
	41"		123		3002 000 9757	3002 000 8058		
	47"		138			3002 000 8064		

*Indicates Wide Nose Bar

Chain Selection for Older Saws

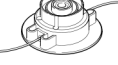
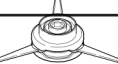
Unit	Pitch/Gauge	Guide Bar Length	Drive Link Count	Chain Loop
012, 015, 015L, 020 (1114) E10, 011, 010	3/8 P .050	12"	44	63PM 44
		14"	50	63PM 50
		16"	55	63PM 55
		18"	61	63PM 61
	.325 .063	16"	62	26RM 62
		18"	68	26RM 68
		12"	64	13RM 64
	1/4 .050	14"	72	13RM 72
		16"	80	13RM 80
08S, 08, S10	3/8 .063	17"	66	36RM 66
		21"	75	36RM 75
		25"	88	36RM 88
	.404 .063	17"	60	46RM 60
		21"	68	46RM 68
		25"	80	46RM 80
07S	.404 .063	17"	60	46RM 60
		21"	68	46RM 68
		25"	80	46RM 80
040, 042, 048, 046, 045, E15	3/8 .050	16"	60	33RM 60
		18"	66	33RM 66
		20"	72	33RM 72
		24"	84	33RM 84
		28"	91	33RM 91
		32"	105	33RM 105
		36"	114	33RM 114
	3/8 .063	16"	60	36RM 60
		18"	66	36RM 66
		20"	72	36RM 72
		24"	84	36RM 84
		28"	91	36RM 91
		30"	98	36RM 98
		32"	105	36RM 105
		36"	114	36RM 114
041, (gear drive)	.404 .063	20"	66	46RM 66
		24"	76	46RM 76
050, 051, 075, 076, 070, 090, 090G	.404 .063	17"	60	46RM 60
		21"	68	46RM 68
		25"	80	46RM 80
		30"	91	46RM 91
		30"	92	46RM 92
		33"	99	46RM 99
		36"	108	46RM 108
		36"	104	46RM 104
		41"	123	46RM 123
		47"	138	46RM 138
		50"	139	46RM 139
		59"	173	46RM 173

Sprocket Selection for Older Saws

Unit	Pitch	Teeth	Spur Sprocket	Rim Sprocket
009, 010, 011	3/8P	7	NLA	
012	3/8P	7	NLA	
015	3/8P	6	NLA	
	1/4"	8	NLA	
020	3/8P	6	NLA	
	1/4"	8	1114 640 2000	
017, 018, 019, 021, 023L, MS 191 T	3/8P	6	1123 640 2003	
		7	1123 640 2002	1123 007 1030
023C, 023, 025	3/8P	6	1123 640 2003	
		7	1123 640 2002	1123 007 1030
	.325"	7	1123 640 2074	1123 007 1032
		8	1123 640 2006	1123 007 1031
024, 024S	3/8P	7		1121 007 1004
		8		NLA
	.325"	7	1121 640 2000	1121 007 1001
		8	1121 640 2001	1121 007 1002
026	.325"	7	1121 640 2004 ★	1121 007 1038
		8	1121 640 2005 ★	1121 007 1041
	3/8"	7		1121 007 1041
026 <x25809073	3/8"	7		1121 007 1035
028, 028S	.325"	7	1118 640 2001	NLA
028 (Old) <6552119	.325"	7	Conversion Kit 1118 007 1029	Conversion Kit 1118 007 1003
030, 031, 032	.325"	8	NLA	
	3/8"	7	NLA	NLA
029, 039, 034, 036	.325"	7	NLA	1125 007 1001
	.325"	8	1125 640 2008	NLA
038	3/8"	7	1119 640 2000	1119 007 1003
038, (Old) <8421499	3/8"	7	NLA	NLA
040, 041	3/8"	7	NLA	NLA
041, (Old) <5664890	.404"	7	NLA	
041G	.404"	7	NLA	
	1/2"	6	NLA	
044, 046	3/8"	7	1128 640 2000	1128 007 1000
		8	NLA	1128 007 1001
042, 048 (Old) <8407350	3/8"	7	NLA	NLA
048	3/8"	7	NLA	NLA
		8		
056	3/8"	7	NLA	
		8		NLA
064, 066	3/8"	7	1122 640 2002	1122 007 1000
		8	1122 640 2000	1122 007 1001
	.404"	7	1122 640 2001	1122 007 1002
051, 075, 076	3/8"	8	NLA	1111 640 2026
	.404"	7	NLA	1111 640 2025
050, 051 (Old) <8369699	3/8"	8	NLA	
	.404"	7	NLA	
070	.404"	7	NLA	NLA
090	.404"	7	1106 640 2015	
07S	.404"	7	NLA	
08, 08S, S10	3/8"	8	1108 640 2010	1108 640 2026
	.404"	7	1108 640 2000	1108 640 2025
084, 088	3/8"	8	1124 640 2004	1124 007 1025
	.404"	7	1124 640 2005	1124 007 1024
		8		NLA
E10	3/8"P	6	NLA	
	1/4"	8	NLA	
E14, E140, E180	3/8"P	7	1206 642 1301	
E15	3/8"	8	NLA	
E20, E220	3/8"	8	1207 640 2050	
E30	.404"	7	NLA	
HT 70, HT 75	3/8"P	7	1206 642 1301	

★ Adjustable Oil
Pumps

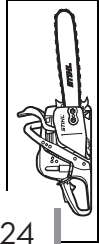
Cutting Attachments for Older Trimmers

	Description	Part #	Units																										
			FE 55	FS 36	FS 40	FS 44	FS 50, 51	FS 52, 56	FS 60, 61*	FS 62	FS 65*	FS 66	FS 72	FS 74	FS 76	FS 80*	FS 81	FS 86	FS 90*	FS 96	FS 106	FS 160	FS 180	FS 220	FS 280	FS 353	FS 410	FS 360	FS 420
	STIHL SuperCut™ 20-2	4002 710 2184						●		●		●		●		●	●		●	●									
	STIHL SuperCut™ 40-2	4003 710 2142																			●	●	●						
	AutoCut® 11-2	4004 710 2192	●	●	●								●																
	AutoCut® 25-2	4002 710 2108				●						●		●			●	●		●	●								
	AutoCut® 36-2	4002 710 2170										●		●	●		●	●		●	●								
	AutoCut® 46-2	4003 710 2115																				●	●	●	●				
	TrimCut™ 31-2	4002 710 2198				●	●	●	●	●	●	●		●	●	●		●	●	●									
	TrimCut™ 40-2	4003 710 2122																			●	●	●	●	●	●	●	●	●
	TrimCut™ 41-2 ②	4003 710 2122																											
	STIHL PolyCut™ ③ 5-3	4004 710 2180			●	●							●																

TUBES & SHAFTS FOR KOMBISYSTEM UNITS / ATTACHMENTS

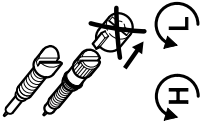
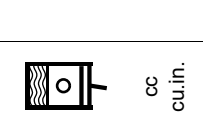
*Needs Adapter Part #: 4125 713 6600

LOWER PROTECTIVE TUBES				LOWER DRIVE SHAFTS			
Model	Part #	Straight	Curved	Part #	Length	Flex	Solid
FS 55 T	4140 710 7126	X		4140 710 3225	34 3/4"		X
FS 83 T							
FS 85 T							
FC 75	4137 710 7128		X	4137 710 3203	34 3/4"	X	
HL/FH (0)	4230 710 7112	X		4230 710 3200	18"		X
HL/FH (0-90)	4230 710 7111	X		4140 710 3225	34 3/4"		X
HT-KM	4182 710 7115	X		4140 710 3225	34 3/4"		X
KM 55 R	4140 710 7128	X		4140 711 3203	22"		X
KM 55 RC-E							
KM 56 RC-E							
KM 90 R	4140 710 7120	X		4140 710 3220	27 1/2"		X
KM 100 R							
KM 111							
KM 130 R							
KM 131							
BF-KM	4601 710 7106	X		4140 710 3225	34 3/4"		X
BG-KM	4606 711 0201	X		4606 710 5250	7 3/4"		X
FS-LINE-KM	4140 710 7126	X		4140 710 3225	34 3/4"		X
FS-BLADE-KM							
FCS-KM							
FSB-KM	4137 710 7143	X		4137 710 3203	34 1/2"	X	
FCB-KM	4137 710 7128		X	4137 710 3203	34 3/4"		X
KB-KM	4602 710 7108	X		4601 710 3201	43 1/2"		X
KW-KM (New)							
KW-KM (Old)	4602 710 7108	X		4140 710 3225	34 3/4"		X



SPEC CHART

STIHL

		 H L	 LD = 2	 LD = 2	 LD = 2	 LD = 2	 LD = 2	 LD = 2	 LD = 2	 LD = 2	 LD = 2
MS 170 1130		–	–	–	–	–	–	–	–	–	–
MS 171 1139	C1Q-S123B		1 1/2 (24/16)	1 (16/16)	3/4 (12/16)	1 (16/16)	–	–	–	–	–
MS 180 1130		–	–	–	–	–	–	–	–	–	–
MS 181 1139	C1Q-S121B C1Q-S122B		1 1/2 (24/16)	1 (16/16)	3/4 (12/16)	1 (16/16)	–	–	–	–	–
MS 192 1137	C1Q-S124		1 (16/16)	1 (16/16)	3/4 (12/16)	1 (16/16)	–	–	–	–	–
MS 192 T 1137	C1Q-S103 C1Q-S104		1 (16/16)	1 (16/16)	3/4 (12/16)	1 (16/16)	–	–	–	–	–
MS 193 1137	C1Q-S287		1 1/2 (24/16)	1 (16/16)	3/4 (12/16)	1/4 (4/16)	–	–	–	–	–
MS 193 T 1137	C1Q-S285		1 1/2 (24/16)	1 (16/16)	3/4 (12/16)	1/4 (4/16)	–	–	–	–	–
MS 194 C & T 1137	1 1 3 7 / 2		2	1	3/4	1/4	–	–	–	–	–

cc/min
oz/min @ 10,000 r.p.m.

Nm
lbf.ft.

Nm
lbf.ft.

Nm
lbf.ft.

1/min
@ r.p.m.

1/min
@ r.p.m.

mm
in.

BOSCH
NGK

mm
in.

cc
cu.in.

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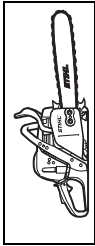
STIHL

25



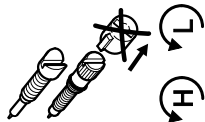
		 H L	  	  		 cc cu.in.	 mm in.	 BOSCH NGK	 mm in.	 1/min @ r.p.m.	 1/min @ r.p.m.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 cc/min oz/min @ 10,000 r.p.m.
MS 250 1123	C1Q-S75 C1Q-S76 C1Q-S92		1 1/2 (24/16)	1 (16/16)	3/4 (12/16)	45.4 2.76	0.30 (+0.20/-0.10) 0.012 (+0.008/-0.004)	WSR 6 F BPMR 7 A	0.5 0.02	2,800	14,000	11.5 8.5	28 20.5	50 37	7.0 0.24
	C1Q-S75A														8.0 (+/-2.0) 0.27 (+/-0.07)
	C1Q-S76A C1Q-S92														
	C1Q-S242		1 1/2 (24/16)	1 (16/16)	3/4 (12/16)	3/4 (12/16)									
MS 250 C 1123	C1Q-S75		1 1/2 (24/16)	1 (16/16)	3/4 (12/16)	45.4 2.76	0.30 (+0.20/-0.10) 0.012 (+0.008/-0.004)	WSR 6 F BPMR 7 A	0.5 0.02	2,800	14,000	11.5 8.5	28 20.5	50 37	7.0 0.24
	WTF-8 C1Q-S295		1 1/2 (24/16)	1 (16/16)	3/4 (12/16)	45.6 2.8	0.30 (+0.20/-0.10)	CMR 6 H	0.5 0.02	2,800	13,000	11.0 8	28 20.5	50 37	8.0 (+/-2.0) 0.27 (+/-0.07)
MS 251 C 1143	WTF-9 C1Q-S296		1 1/2 (24/16)	1 (16/16)	3/4 (12/16)	45.6 2.8	0.30 (+0.20/-0.10)	CMR 6 H	0.5 0.02	2,800	13,000	11.0 8	28 20.5	50 37	8.0 (+/-2.0) 0.27 (+/-0.07)
	WT-403	- 	-	1 (16/16)	-	48.7 2.96	0.25 (+0.05/-0.10) 0.01 (+0.002/-0.004)	WSR 6 F BPMR 7 A	0.5 0.02	2,800	14,000	10 7.5	30 22	50 37	min 4.5 (+/-2.0) max 11.5 (+/-3.0) min 0.16 (+/-0.07) max 0.4 (+/-0.10)
MS 260 1121	WTE-1 WTE-2		1 (16/16)	1 (16/16)	3/4 (12/16)	50.2 3.06	0.20 (+0.10/-0.05) 0.008 (+0.004/-0.002)					11 8	33 24.5	50 37	

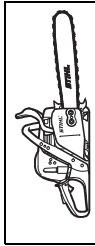
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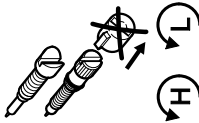
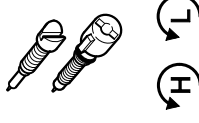
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		 H L	  	  	 cc cu.in.	 mm in.	 BOSCH NGK	 mm in.	 1/min @ r.p.m.	 1/min @ r.p.m.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 cc/min oz/min @ 10,000 r.p.m.		
MS 310 1127	HD-21B			1 (16/16)	1 (16/16)	3/4 (12/16)	1/4 (4/16)	59.0 3.60	0.25 (+0.05/-0.10) 0.01 (+0.002/-0.004)	WSR 6 F BPMR 7 A	0.5 0.02	2,800	13,000	11 8	28 20.5	50 37	min 6.0 (+/-2.0) max 17.5 (+3.0/-4.5) min 0.21 (+/-0.07) max 0.60 (+0.10/-0.16)
	HD-21C								0.30 (+0.20/-0.05) 0.012 (+0.008/-0.002)								
MS 311 1140	WTE-9			1 (16/16)	1 (16/16)	3/4 (12/16)	1 (16/16)	59.0 3.60	0.30 (+0.05/-0.10) 0.012 (+0.002/-0.004)	WSR 6 F BPMR 7 A	0.5 0.02	2,800	13,000	12 8	33 24.5	50 37	min 6.0 (+/-2.0) max 17.5 (+3.0/-4.5) min 0.21 (+/-0.07) max 0.60 (+0.10/-0.16)
	HD-34A			1 (16/16)	1 (16/16)	3/4 (12/16)	1/4 (4/16)	59.0 3.60	0.25 (+0.05/-0.10) 0.01 (+0.002/-0.004)	WSR 6 F BPMR 7 A	0.5 0.02	2,800	14,000	10 7.5	28 20.5	50 37	min 5.5 (+/-2.5) max 15.0 (+/-3.0) min 0.19 (+/-0.08) max 0.51 (+/-0.10)
MS 361 1135	HD-34B								0.20 (+0.10/-0.05) 0.008 (+0.004/-0.002)								
	WTE-8			1 (16/16)	1 (16/16)	3/4 (12/16)	1 (16/16)	59.0 3.60	0.20 (+0.10/-0.05) 0.008 (+0.004/-0.002)	BPMR 7 A	0.5 0.02	2,800	14,000	10 7.5	33 24.5	50 37	min 5.5 (+/-2.5) max 15.0 (+/-3.0) min 0.19 (+/-0.08) max 0.51 (+/-0.10)
MS 391 1140	WTE-9			1 (16/16)	1 (16/16)	3/4 (12/16)	1 (16/16)	64.1 3.91	0.30 (+0.05/-0.10) 0.012 (+0.002/-0.004)	BPMR 7 A	0.5 0.02	2,800	13,000	12 9	33 24.5	50 37	min 6.0 (+/-2.0) max 17.5 (+3.0/-4.5) min 0.21 (+/-0.07) max 0.60 (+0.10/-0.16)

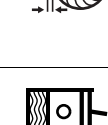


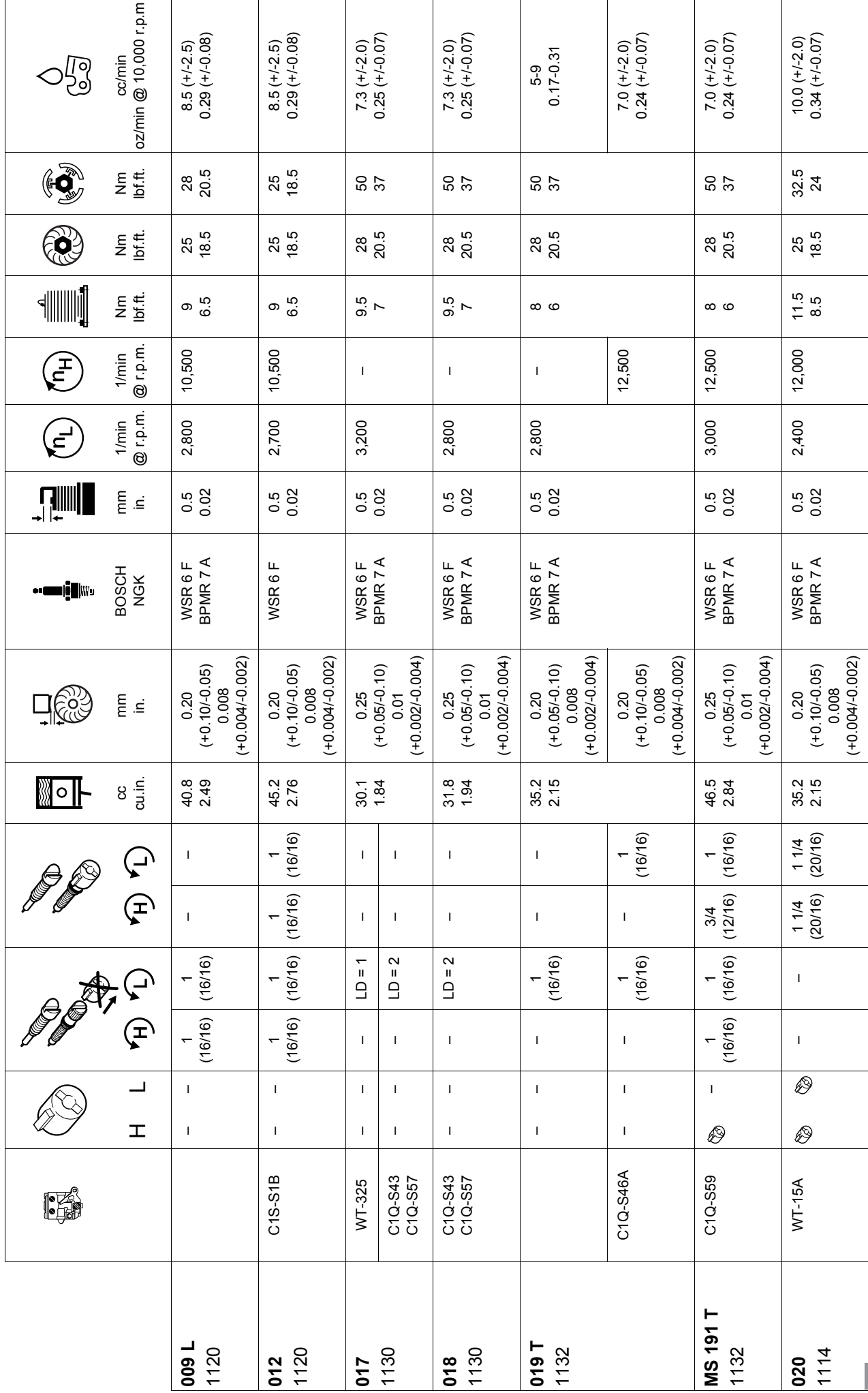
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	 H L			 cc cu.in.	 mm in.	 BOSCH NGK	 mm in.	 1/min @ r.p.m.	 1/min @ r.p.m.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 cc/min oz/min @ 10,000 r.p.m.
MS 440 1128	HD-17A	1	1/4	70.7 4.31	0.25 (+0.05/-0.10) 0.01 (+0.002/-0.004)	WSR 6 F BPMR 7 A	0.5 0.02	2,500	13,500	11.5 8.5	33 24.5	50 37	min 6.0 (+/-2.0) max 17.0 (+/-3.0) min 0.21 (+/-0.07) max 0.58 (+/-0.10)
	HD-17B	1	3/4	70.7 4.31	0.20 (+0.10/-0.05) 0.008 (+0.004/-0.002)	WSR 6 F BPMR 7 A	0.5 0.02	2,800	13,500	15 11	33 24.5	50 37	min 6.0 (+2.0/-2.5) max 16.5 (+/- 3.5) min 0.21 (+0.07/-0.08) max 0.56 (+/-0.12)
MS 441 1138	HD-41 HD-41B	1 (16/16)	1/4 (4/16)	70.7 4.31	0.25 (+0.05/-0.10) 0.01 (+0.002/-0.004)	WSR 6 F BPMR 7 A	0.5 0.02	2,500	13,500	15 11	33 24.5	50 37	min 6.0 (+/-2.0) max 17.0 (+/-3.0) min 0.21 (+/-0.07) max 0.58 (+/-0.10)
	HD-16 HD-16A HD-16B	1 (16/16)	3/4 (12/16)	76.5 4.67	0.20 (+0.10/-0.05) 0.008 (+0.004/-0.002)	WSR 6 F BPMR 7 A	0.5 0.02	2,500	13,500	15 11	33 24.5	50 37	min 6.0 (+/-2.0) max 17.0 (+/-3.0) min 0.21 (+/-0.07) max 0.58 (+/-0.10)
MS 660 1122	WJ-69	1 (16/16)	1/4 (4/16)	91.6 5.59	0.25 (+0.05/-0.10) 0.01 (+0.002/-0.004)	WSR 6 F BPMR 7 A	0.5 0.02	2,500	13,000	15 11	45 33	70 51.5	10-21 0.34-0.72
	WJ-69B	1 (16/16)	3/4 (12/16)	91.6 5.59	0.20 (+0.10/-0.05) 0.008 (+0.004/-0.002)	WSR 6 F BPMR 7 A	0.5 0.02	2,500	13,500	15 11	45 33	70 51.5	min 10.0 (+/-4.0) max 20.5 (+/-3.5) min 0.34 (+/-0.14) max 0.69 (+/-0.12)



		 H L													
MS 880 1124	HT-12D			1 (16/16)	1 (16/16)	121.6 7.42	0.30 (+0.05/-0.10) 0.012 (+0.002/-0.004)	WSR 6 F BPMR 7 A	0.5 0.02	2,700	11,500	15 11	45 33	80 59	min 14.0 (+/-5.0) max 36.0 (+/-5.0) min 0.48 (+/-0.17) max 1.23 (+/-0.17)
	WG-12			1 1/2 (24/16)	1/2 (8/16)	1/4 (4/16)	0.30 (+0.10/-0.10) 0.012 (+0.004/-0.004)				11,000				
MS 461 1128	HD 50		1 1/2	1	3/4	1/4	0.2	WSR 6 F BPMR 7 A	0.5 0.02	2,500	13,500				
088 1124	HT-12D			1 (16/16)	1 (16/16)	121.6 7.42	0.30 (+0.05/-0.10) 0.012 (+0.002/-0.004)	WSR 6 F BPMR 7 A	0.5 0.02	2,700	12,000	15 11	45 33	80 59	min 14.0 (+/-5.0) max 36.0 (+/-5.0) min 0.48 (+/-0.17) max 1.23 (+/-0.17)
090 1106	LB-S9	-	1 (16/16)	1 (16/16)	1 (16/16)	136.8 8.35	0.25 (+0.05/-0.05) 0.01 (+0.002/-0.002)	WSR 6 F	0.5 0.02	2,000	7,500	10 7.5	45 33	40 29.5	30.0 (+/-5.0) 1.01 (+/-0.17)



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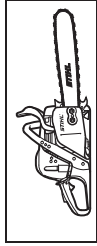
		 H L	  	  	 cc cu.in.	 mm in.	 BOSCH NGK	 mm in.	 1/min @ r.p.m.	 1/min @ r.p.m.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 cc/min oz/min @ 10,000 r.p.m.
020, 020 T 1129	C1Q-S32	-	-	 1 (16/16)	35.2 2.15	0.25 (+0.15/-0.10) 0.01 (+0.006/-0.004)	WSR 6 F BPMR 7 A	0.5 0.02	2,800	14,000	11.5 8.5	25 18.5	33 24.5	min 3.5 (+/-1.0) max 9.5 (+/-2.0) min 0.12 (+/-0.03) max 0.32 (+/-0.07)
		 1 (16/16)	 1 (16/16)											
021 1123		-	-	 1 (16/16)	35.2 2.14	0.30 (+0.20/-0.10) 0.012 (+0.008/-0.004)	WSR 6 F BPMR 7 A	0.5 0.02	2,800	11,500	11.5 8.5	28 20.5	50 37	7.0 (+/-2.5) 0.24 (+/-0.08)
MS 210 1123	C1Q-S77A C1Q-S90A	-	 1 1/2 (24/16)	 1 (16/16)	35.2 2.14	0.30 (+0.20/-0.10) 0.012 (+0.008/-0.004)	WSR 6 F BPMR 7 A	0.5 0.02	2,800	12,500	11.5 8.5	28 20.5	50 37	7.0 (+/-2.5) 0.24 (+/-0.08)
		 1 (16/16)	 1 (16/16)											
023 1123	WT-215	-	 1 (16/16)	 1 (16/16)	40.2 2.45	0.30 (+0.20/-0.10) 0.012 (+0.008/-0.004)	WSR 6 F BPMR 7 A	0.5 0.02	2,800	12,500	11.5 8.5	28 20.5	50 37	7.0 (+/-2.5) 0.24 (+/-0.08)
		 1 (16/16)	 1 (16/16)											
024 1121	WT-194	-	 1 (16/16)	 1 (16/16)	44.3 2.70	0.20 (+0.10/-0.05) 0.008 (+0.004/-0.002)	WSR 6 F BPMR 7 A	0.5 0.02	2,800	13,000	10 7.5	30 22	50 37	9.5 (+/-2.5) 0.32 (+/-0.08)
		 1 (16/16)	 1 (16/16)											
025 1123	WT-215	-	 1 (16/16)	 1 (16/16)	45.4 2.76	0.30 (+0.20/-0.10) 0.012 (+0.008/-0.004)	WSR 6 F BPMR 7 A	0.5 0.02	2,800	13,000	11.5 8.5	28 20.5	50 37	7.0 (+/-2.5) 0.24 (+/-0.08)
		 1 (16/16)	 1 (16/16)											
026 1121		-	 1 (16/16)	 1 (16/16)	48.7 2.96	0.25 (+0.05/-0.10) 0.01 (+0.002/-0.004)	WSR 6 F BPMR 7 A	0.5 0.02	2,800	14,000	10 7.5	33 24.5	50 37	4.5-11.5 0.16-0.4
		 1 (16/16)	 1 (16/16)											
028 1118	WT-16B	-	-	 1 (16/16)	51.5 3.14	0.20 (+0.10/-0.05) 0.008 (+0.004/-0.002)	WSR 6 F BPMR 7 A	0.5 0.02	2,600	12,500	7 5	30 22	50 37	10.0 (+/-2.0) 0.34 (+/-0.07)

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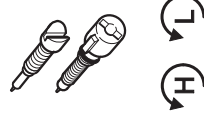
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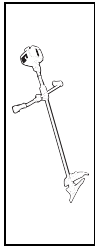
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044 1128	HD-17A			 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)
	HD-15B			 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)
046 1128	HD-8A HD-14A			 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)
	HD-16			 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)
056 1115	HS-118B			 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)
	WJ-69			 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)
MS 650 1122	WJ-69B WJ-69A			 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)
	WJ-69			 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)
066 1122	WJ-69			 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)
084 1124	HT-7A			 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)	 1 (16/16)



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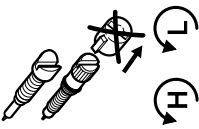
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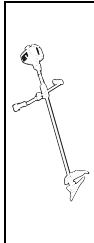
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MS 201 CM 1145	C1Q-S273B 1145/23					35.2 2.15		0.20 mm 0.008 in	CMR6H	0.5 0.02	3,000	13,700	14	33	50 37						
	C1Q-S274C 1145/22																				
MS 261 CM 1141	1141/40 1141/30					50.2 3.06		0.20 mm 0.008 in	WSR6F BPMR7A	0.5 0.02	2,800	14,000	25 18	28 21	50 37					min 4.5 cc/min max 11.5 cc/min	
MS 362 CM 1140	1140/16 1140/15 C1Q100357					59.0 3.6		0.20 mm 0.008 in	CMR6H Older units BPMR7A WSR6F	0.5 0.02	2,800	14,000	25 18	33 24	50 37					min 5.5 cc/min max 15.0 cc/min	
MS 400 CM 1140	1140/13					66.8 4.1		0.20 mm 0.008 in	CMR6H	0.5 0.02	2,800	14,000	14	33	50						
MS 462 CM 1142	1142/03					72.2 4.41		0.20 mm 0.008 in	CMR6H	0.5 0.02	2,800	13,500	25 18	28 21	50 37						
MS 661 CM 1144	WJ-140A WJ-134A					91.1 5.56		0.20 mm 0.008 in	BPMR7A WSR6F	0.5 0.02	2,800	13,500	25 18	45 24	70 52					min 6 cc/min 7,000 RPM max 18 cc/min 7,000 RPM	
MS 500i STIHL Injection 1147	N/A					48.7 2.96		0.20 mm 0.008 in	CMR6H	0.5 0.02	3,000	13,700	14	33	50 37						



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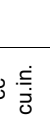
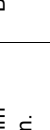
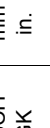
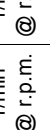
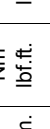
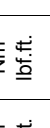
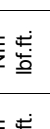
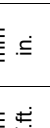
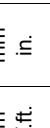
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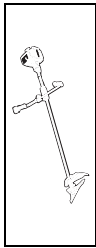
	 H L	  	  	 cc cu.in.	 mm in.	 BOSCH NGK	 mm in.	 1/min @ r.p.m.	 1/min @ r.p.m.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 mm in.
FS 36, 40, 44 FC 44 4130	WT-160B	–	–	1 (16/16)	1 (16/16)	1 (16/16)	0.7-0.8 0.028- 0.032	3,100	9,300	13 9.5	17 12.5				
	WT-327 WT-492A			4 (64/16)	1 1/2 (24/16)	1/4 (4/16)	0.30 (+0.20/-0.20) 0.012 (+0.008/-0.008) 0.35 (+0.15/-0.15) 0.014 (+0.006/-0.006)		8,600- 10,000						
	C1Q-S66 C1Q-S97		–	1 1/2 (24/16)	1 (16/16)	3/4 (12/16)	0.30 (+0.15/-0.15) 0.012 (+0.006/-0.006)	2,800	8,700- 10,300	9 6.5	17 12.5	17 12.5			
	C1Q-S97A C1Q-S153								9,500						
FS 38, 45, 46, 55 FC 55 4140	C1Q-S71		–	1 3/4 (28/16)	1 (16/16)	3/4 (12/16)									
	C1Q-S186B C1Q-S291A			2 (32/16)	1 1/2 (24/16)	3/4 (12/16)									
	C1Q-S216			1 1/2 (24/16)	1 (16/16)	3/4 (12/16)									
	C1Q-S282			1 1/2 (24/16)	1 (16/16)	3/4 (12/16)									
FS 40, 50, 56, 70 4144 FC 56, 70 4144	C1M-S145B C1M-S146B			1 1/2 (24/16)	1 (16/16)	3/4 (12/16)	0.30 (+0.15/-0.15) 0.012 (+0.006/-0.006)	2,800	9,000- 10,600	9 6.5	20 14.5		17 12.5		



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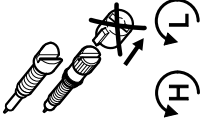
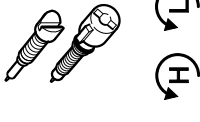
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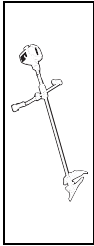
																					
	H	L																			
FS 75, 80, 85 FC 75, 85 4137 KW 85 4602	WT-447	-	-	1 (16/16)	1 (16/16)	-	-	-	25.4 1.55	0.30 (+0.15/-0.15) 0.012 (+0.006/-0.006)	BOSCH NGK	0.5 0.02	1/min @ r.p.m.	1/min @ r.p.m.	Nm lbf.ft.	Nm lbf.ft.	Nm lbf.ft.	Nm lbf.ft.	Nm lbf.ft.	Nm lbf.ft.	
	C1Q-S28 C1Q-S41	-	-	-	1 (16/16)	-	-	-	-	-	-	-	9,700- 11,300	9,700- 11,300	9 6.5	10,500	9,700- 11,300	10,500	26 19	14 10.5	
	C1Q-S45 C1Q-S56	-	-	-	-	-	-	-	-	-	-	-	2,800	2,800	9 6.5	10,500	9,700- 11,300	10,500	26 19	14 10.5	
	C1Q-S63 C1Q-S69	-	-	1 1/2 (24/16)	1 (16/16)	3/4 (12/16)	1 (16/16)	1 (16/16)	-	-	-	-	2,800	2,800	9 6.5	10,500	9,700- 11,300	10,500	26 19	14 10.5	
	C1Q-S69A	-	-	-	-	-	-	-	-	-	-	-	2,800	2,800	9 6.5	10,500	9,700- 11,300	10,500	26 19	14 10.5	
C1Q-S78	-	-	1 3/4 (28/16)	1 (16/16)	3/4 (12/16)	1 (16/16)	1 (16/16)	-	-	-	-	-	3,000	3,000	10 7.5	10,000- 11,000	10,000- 11,000	20 14.5	21 15.5	20 14.5	20 14.5
C1Q-S80	-	-	2 (32/16)	1 (16/16)	3/4 (12/16)	1 (16/16)	1 (16/16)	-	-	-	-	-	3,000	3,000	10 7.5	10,000- 11,000	10,000- 11,000	20 14.5	21 15.5	20 14.5	20 14.5
FS 73, 83 FC 73, 83 4141	-	-	-	-	-	-	-	-	25.4 1.55	0.35 (+0.15/-0.15) 0.014 (+0.006/-0.006)	CMR 7 A	0.5 0.02	2,800	2,800	9 6.5	10,300- 10,700	10,300- 10,700	17 12.5	17 12.5	17 12.5	17 12.5
	C1Q-S110	-	-	3 1/2 (56/16)	1 1/4 (20/16)	3/4 (12/16)	3/4 (12/16)	3/4 (12/16)	28.4 1.73	0.25 (+0.05/-0.10) 0.01 (+0.002/-0.004)	USR 7 AC	0.5 0.02	2,800	2,800	9 6.5	10,300- 10,700	10,300- 10,700	17 12.5	17 12.5	17 12.5	17 12.5
C1Q-S131B	-	-	-	-	-	-	-	-	-	-	-	-	2,800	2,800	9 6.5	9,800- 11,000	9,800- 11,000	17 12.5	17 12.5	17 12.5	17 12.5
FS 90 FC 90, 95 4180	4149/02	-	-	1 1/2 (24/16)	2 1/2 (40/16)	-	-	-	24.1 1.47	0.25 (+0.05/-0.10) 0.01 (+0.002/-0.004)	CMR 6H USR 4 AC	0.5 0.02	2,800	2,800	8 6	9,800	9,800	17 12.5	17 12.5	17 12.5	17 12.5
	RC2-S243A	-	-	1 1/4 (20/16)	1 1/2 (24/16)	-	-	-	-	-	-	-	2,800	2,800	8 6	9,800	9,800	17 12.5	17 12.5	17 12.5	17 12.5



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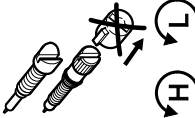
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FS 91, 91 R FC 91, 96, 111 4180			 3 1/2 (56/16)	 1 3/4 (28/16)	28.4 1.73	0.25 (+0.05/-0.10) 0.01 (+0.002/-0.004)	USR 7 AC	0.5 0.02	2,800	9 000 - 10 000	9 6.5	17 12.5	17 12.5	17 12.5	12 9	0.1 0.004
			 2 (32/16)	 3 (48/16)												
FS 110 FC 100, 110 4180			 3 1/2 (56/16)	 1 1/4 (20/16)	31.4 1.92	0.25 (+0.05/-0.10) 0.01 (+0.002/-0.004)	USR 7 AC	0.5 0.02	2,800	10,300- 10,700	9 6.5	17 12.5	17 12.5	17 12.5	12 9	0.1 0.004
			 C1Q-S110	 3/4 (12/16)												
										9 800- 11,000						
FS 111, 111 R 4180			 3 1/2 (56/16)	 1 3/4 (28/16)	28.4 1.73	0.25 (+0.05/-0.10) 0.01 (+0.002/-0.004)	USR 7 AC	0.5 0.02	2,800	9 000 - 10 000	9 6.5	17 12.5	17 12.5	17 12.5	12 9	0.1 0.004
			 C1Q-100345	 C1Q-S35												
FS 120 4134			 1 (16/16)	 1 (16/16)	30.8 1.88	0.20 (+0.10/-0.05) 0.00812 (+0.004/-0.002)	WSR 6 F BPMR 7 A	0.5 0.02	2,800	11,300- 13,300	10 7.5	32 23.5	24 17.5	12 9		
			 C1Q-S36 C1Q-S51	 LD = 2												
			 1 3/4 (28/16)	 1 (16/16)	36.3 2.21	0.35 (+0.15/-0.15) 0.014 (+0.006/-0.006)										
			 C1Q-S82	 3/4 (12/16)												
FS 130 4180			 4 (64/16)	 2 1/2 (40/16)	36.3 2.22	0.25 (+0.05/-0.10) 0.01 (+0.002/-0.004)	CMR 6 H	0.5 0.02	2,800	10,300- 10,700	9 6.5	17 12.5	17 12.5	12 9	0.1 0.004	
			 C1Q-S98	 4 1/2 (72/16)												
			 C1Q-S131B	 3/4 (12/16)						9 800- 11,000						



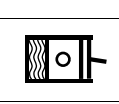
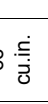
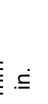
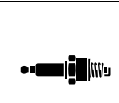
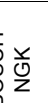
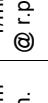
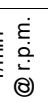
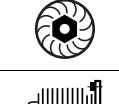
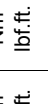
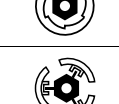
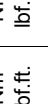
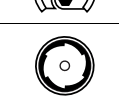
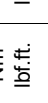
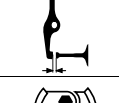
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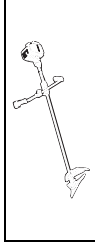
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		 H L	 (H) (L)	 (H) (L)	 cc cu.in.	 mm in.	 BOSCH NGK	 mm in.	 1/min @ r.p.m.	 1/min @ r.p.m.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 mm in.			
FS 131 FB 131 4180	C1Q-100344	 -	 3 1/2 (56/16)	 1 1/4 (20/16)	36.3 2.22	0.25 (+0.05/-0.10) 0.01 (+0.002/-0.004)	CMR 6 H	0.5 0.02	2,800	9 000 - 10 000	9 6.5	17 12.5		17 12.5		12 9	0.1 0.004		
	C1Q-S35	-	1 (16/16)	1 (16/16)														-	
	C1Q-S36 C1Q-S51	-	-	LD = 2														-	
FS 200 4134	C1Q-S83	 -	 1 3/4 (28/16)	 1 (16/16)	36.3 2.22	0.25 (+0.05/-0.10) 0.01 (+0.002/-0.004)	WSR 6 F BPMPR 7 A	0.5 0.02	2,800	11,300- 13,300	10 7.5	32 23.5	24 18	17 12.5		12 9			
	C1Q-S162	 -	 1 1/2 (24/16)	 1 (16/16)														 3/4 (12/16)	 1 (16/16)
FS 240 4147	WTF-5A WTF-11 WTF-10	 -	 1 1/2 (24/16)	 1 1/4 (20/16)	37.7 2.3	0.30 (+0.10/-0.05) 0.012 (+0.002/-0.004)	CMR 6 H	0.5 0.02	2,800	10,500- 12,500	9 6.5	28 20.5		17 12.5					
	C1Q-S51	-	-	LD = 2														-	
FS 250 4134	C1Q-S51	-	-	LD = 2	40.2 2.45	0.25 (+0.05/-0.10) 0.01 (+0.002/-0.004)	WSR 6 F BPMPR 7 A	0.5 0.02	2,800	11,300- 13,300	10 7.5	32 23.5	24 18			12 9			
	C1Q-S83	 -	 1 3/4 (28/16)	 1 (16/16)														 3/4 (12/16)	 1 (16/16)
	C1Q-S162	 -	 1 1/2 (24/16)	 1 (16/16)														 3/4 (12/16)	 1 (16/16)
FS 310 4180	C1Q-S133A				36.3 2.22		CMR 6 H		2,800	9,800- 11,000	9 6.5	17 12.5		17 12.5		12 9	0.1 0.004		
	C1Q-S176	 -	 4 (64/16)	 2 (32/16)														-	



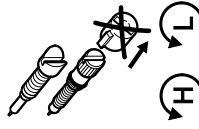
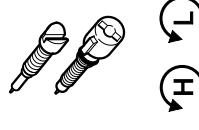
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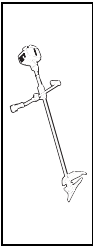
		 H L	     	             	 mm in.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	
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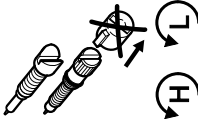
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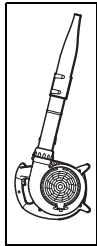
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FS 450, 480 4128		–	1 1/2 (24/16)	1 (16/16)	3/4 (12/16)	1 (16/16)	44.3 2.70	0.25 (+0.05/-0.10) 0.01 (+0.002/-0.004)	WSR 6 F BPMR 7 A	0.5 0.02	2,800	11,700- 13,300	10 7.5	32 23.5	24 17.5	12 9	
		–	1 1/2 (24/16)	1 (16/16)	3/4 (12/16)	1 (16/16)						12 9		28 20.5	24 18	12 9	
			1 1/2 (24/16)	1 (16/16)	1 (16/16)	3/4 (12/16)											
FS 460 C-EM 4147	–	–	–	–	–	–	45.6 2.80	0.30 (+0.05/-0.10) 0.012 (+0.002/-0.004)	CMR 6 H	0.5 0.02	2,700	11,700 - 12,900	9 6.5	28 20.5			
FS 550 4116			1 1/4 (20/16)	1 1/4 (20/16)	1/4 (4/16)	1/4 (4/16)	56.5 3.45	0.25 (+0.10/-0.10) 0.01 (+0.004/-0.004)	WSR 6 F BPMR 7 A	0.5 0.02	2,500	11,600- 12,800	12 9	30 22		24 17.5	20 14.5
FS 560 C-EM 4148	–	–	–	–	–	–	57.1 3.48	0.30 (+0.05/-0.10) 0.012 (+0.002/-0.004)	BPMR 7 A	0.5 0.02	2,500	11,700 - 12,900	9 6.5	28 20.5		17 12.5	



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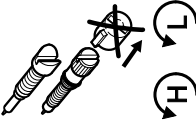
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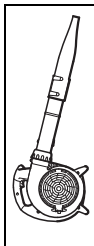
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FS 25-4 4170	WYL-131	-	-	-	22.2 1.35	0.40 (+0.10/-0.05) 0.016 (+0.004/-0.002)	CR5 HSB	0.65 0.025	3,100	11,500						8 6
FS 56 4125	WT-45A	-	1 (16/16)	1 (16/16)	19.6 1.20	0.35 (+0.15/-0.15) 0.014 (+0.006/-0.006)	WSR 6 F BPMR 7 A	0.5 0.02	2,800							
FS 65-4 4170	WYL-135	-	-	-	31.0 1.89	0.40 (+0.10/-0.05) 0.016 (+0.004/-0.002)	CR5 HSB	0.65 0.025	3,100	11,500						8 6
FS 66 4123	WT-45A	-	1 (16/16)	1 (16/16)	19.6 1.20	0.35 (+0.15/-0.15) 0.014 (+0.006/-0.006)	WSR 6 F BPMR 7 A	0.5 0.02	2,700							
FS 72, 74, 76 4133	WT-227F	-	1 (16/16)	1 (16/16)	23.9 1.46	0.35 (+0.15/-0.15) 0.014 (+0.006/-0.006)	WSR 6 F BPMR 7 A	0.5 0.02	2,800	10,500	9.5 7					
FS 81 4124	WT-45A	-	1 (16/16)	1 (16/16)	22.5 1.37	0.35 (+0.15/-0.15) 0.014 (+0.006/-0.006)	WSR 6 F BPMR 7 A	0.5 0.02	2,700			8 6	17 12.5			
FS 86 4126	WT-45A	-	1 (16/16)	1 (16/16)	25.4 1.55	0.35 (+0.15/-0.15) 0.014 (+0.006/-0.006)	WSR 6 F BPMR 7 A	0.5 0.02	2,800				15 11	14 10.5	7 5	
FS 106 4129, 4132	C1Q-SK5	-	1 (16/16)	1 (16/16)	34.4 2.10	0.35 (+0.15/-0.15) 0.014 (+0.006/-0.006)	WSR 6 F BPMR 7 A	0.5 0.02	2,800			15 11	17 12.5			17 12.5



SPEC CHART

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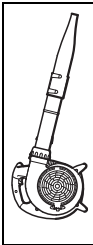
		 H L	 (H) (L)	 (H) (L)	 cc cu.in.	 mm in.	 BOSCH NGK	 mm in.	 1/min @ r.p.m.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 mm in.
BG 56, SH 56 4241	C1M-S142A	–	1 1/2 (24/16)	1 (16/16)	27.2	0.25 (0.05/-0.10) 0.01 (0.002/-0.004)	CMR 6 H	0.5 0.02	2,500	9 6.5	17 12.5	21 15.5		
	C1M-S142C				1.66									
	C1M-S142D													
BG 66 4241	C1M-S144	–	1 1/2 (24/16)	1 (16/16)	27.2	0.25 (0.05/-0.10) 0.01 (0.002/-0.004)	CMR 6 H	0.5 0.02	2,500	9 6.5	17 12.5	21 15.5		
	C1M-S144A				1.66									
	C1M-S144B													
BG 86, SH 86 4241	C1M-S141A	–	1 1/2 (24/16)	1 (16/16)	27.2	0.25 (0.05/-0.10) 0.01 (0.002/-0.004)	CMR 6 H	0.5 0.02	2,500	9 6.5	17 12.5	21 15.5		
	C1M-S141C				1.66									
	C1M-S141D													
BR 200, SR 200 4241	C1M-X1978	–	1 1/2 (24/16)	1 (16/16)	27.2	0.25 (+0.05/-0.10) 0.01 (+0.002/-0.004)	CMR 6 H	0.5 0.02	2,500	9 6.5	17 12.5	21 15.5		
	C1M-S219				1.66									
	C1M-S219A													
BR 350 4244	C1M-S100319A													
	C1Q-S199	–	1 1/2 (24/16)	1 1/2 (24/16)	63.3 3.86	0.25 (+0.10/-0.10) 0.01 (+0.004/-0.004)	BPMR 7 A	0.5 0.02	3,000	12 8.9	20 18.5	35 25.8		
BR 420, SR 420 4203	HD-28A		1 (16/16)	2 1/4 (36/16)	56.5 3.44	0.25 (0.05/-0.10) 0.01 (0.002/-0.004)	WSR 6 F BPMR 7 A	0.5 0.02	3,100	10 7.5	25 18.5		25 18.5	
	HD-45													



SPEC CHART

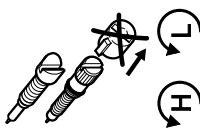
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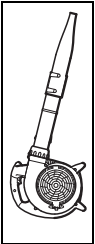
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SPEC CHART

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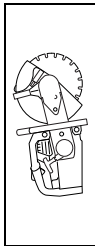
		 H L	  	  	 cc cu.in.	 mm in.	 BOSCH NGK	 mm in.	 1/min @ r.p.m.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 mm in.	
BG 45, BG 46, BR 45, BR 46 4229	C1Q-S73 C1Q-S112		–	1 1/2 (24/16)	1 (16/16)	3/4 (12/16)	1 (16/16)	27.2 1.66	0.30 (0.15/-0.15) 0.012 (0.006/-0.006)	WSR 6 F BPMR 7 A	0.5 0.02	2,800	9 6.5	17 12.5	21 15.5
	C1Q-S55	–	–	–	–	–	–	27.2 1.66	0.30 (0.15/-0.15) 0.012 (0.006/-0.006)	WSR 6 F BPMR 7 A	0.5 0.02	2,800	9 6.5	17 12.5	21 15.5
BG 55, SH 55 BG 65 4229	C1Q-S64 C1Q-S68 C1Q-S68E		–	1 1/2 (24/16)	1 (16/16)	3/4 (12/16)	1 (16/16)	27.2 1.66	0.30 (0.15/-0.15) 0.012 (0.006/-0.006)	WSR 6 F BPMR 7 A	0.5 0.02	2,800	9 6.5	17 12.5	21 15.5
	C1Q-S64 C1Q-S68		–	1 1/2 (24/16)	1 (16/16)	3/4 (12/16)	1 (16/16)	27.2 1.66	0.30 (0.15/-0.15) 0.012 (0.006/-0.006)	WSR 6 F BPMR 7 A	0.5 0.02	2,800	9 6.5	17 12.5	21 15.5
BG 85, SH 85 4229	–	–	–	–	–	–	–	27.2 1.66	0.30 (0.15/-0.15) 0.012 (0.006/-0.006)	CMR 6 H	0.5 0.02	2,500	9 6.5	17 12.5	21 15.5
	C1M-X1978		–	1 1/2 (24/16)	1 (16/16)	3/4 (12/16)	1 (16/16)	27.2 1.66	0.25 (0.05/-0.10) 0.01 (0.002/-0.004)	WSR 6 F BPMR 7 A	0.5 0.02	3,100	8 6	25 18.5	25 18.5
BR 320, SR 320 4203	HD-7			2 (32/16)	2 1/2 (40/16)	1/4 (4/16)	1/4 (4/16)	44.9 2.73	0.25 (0.05/-0.10) 0.01 (0.002/-0.004)	WSR 6 F BPMR 7 A	0.5 0.02	3,100	8 6	25 18.5	25 18.5
	HD-13B			2 1/2 (40/16)	2 (32/16)	1/4 (4/16)	1/4 (4/16)	44.9 2.73	0.25 (0.05/-0.10) 0.01 (0.002/-0.004)	WSR 6 F BPMR 7 A	0.5 0.02	3,100	8 6	25 18.5	25 18.5
BR 320 L 4203	WT-331 WT-489			4 (64/16)	1 1/2 (24/16)	1/4 (4/16)	1/4 (4/16)	44.9 2.73	0.25 (0.05/-0.10) 0.01 (0.002/-0.004)	WSR 6 F BPMR 7 A	0.5 0.02	3,100	8 6	25 18.5	25 18.5
	HD28A			1 (16/16)	2 1/4 (36/16)	1/4 (4/16)	1/4 (4/16)	44.9 2.73	0.25 (0.05/-0.10) 0.01 (0.002/-0.004)	WSR 6 F BPMR 7 A	0.5 0.02	3,100	10 7.5	25 18.5	25 18.5



SPEC CHART

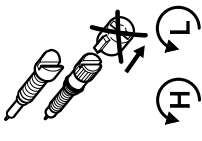
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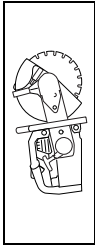
	 H L		 H L	 H L	 cc cu.in.	 mm in.	 BOSCH NGK	 mm in.	 1/min @ r.p.m.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 mm in.
BR 340 L 4203			1 1/8 (18/16)	2 (32/16)	1/4 (4/16)	1/4 (4/16)	WSR 6 F BPMR 7 A	0.5 0.02	3,100	10 7.5	25 18.5	25 18.5	25 18.5	
			1 (16/16)	2 1/4 (36/16)	1/4 (4/16)	1/4 (4/16)	WSR 6 F BPMR 7 A	0.5 0.02	3,100	10 7.5	25 18.5	25 18.5	25 18.5	
BR 400, SR 400 4203			2 (32/16)	2 1/2 (40/16)	1/4 (4/16)	1/4 (4/16)	WSR 6 F BPMR 7 A	0.5 0.02	3,100	8 6	25 18.5	25 18.5	25 18.5	
			2 1/2 (40/16)	2 (32/16)	1/4 (4/16)	1/4 (4/16)	WSR 6 F BPMR 7 A	0.5 0.02	3,100					



SPEC CHART



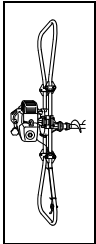
		 H L	  	  	 cc cu.in.	 mm in.	 BOSCH NGK	 mm in.	 1/min @ r.p.m.	 1/min @ r.p.m.	 1/min @ r.p.m.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.
TS 410 4238	C1Q-S118B		–	  1 1/2 (24/16) 1 (16/16)	66.7 4.07	0.25 (+0.10/-0.10) 0.01 (+0.004/-0.004)	WSR 6 F	0.5 0.02	2,500	10,100	9,700- 10,400	9 6.5	33 24.5	40 29.5	
	C1Q-S118A		–	  2 1/2 (40/16) 1 (16/16)											
TS 420 4238	C1Q-S118B		–	  1 1/2 (24/16) 1 (16/16)	66.7 4.07	0.25 (+0.10/-0.10) 0.01 (+0.004/-0.004)	WSR 6 F	0.5 0.02	2,500	10,100	9,700- 10,400	9 6.5	33 24.5	40 29.5	
	C1Q-S118A		–	  2 1/2 (40/16) 1 (16/16)											
TS 440 4238	C1Q-S118 H		–	  1 1/2 (24/16) 1 (16/16)	66.7 4.07	0.25 (+0.10/-0.10) 0.01 (+0.004/-0.004)	WSR 6 F BPMR 7 A	0.5 0.02	2700		10,000	9 6.5	33 24.5	40 29.5	
TS 700 4224	HS-314A WJ-114A		–	  1 1/2 (24/16) 1 (16/16)	98.5 6.1	0.30 (+0.10/-0.10) 0.012 (+0.004/-0.004)	WSR 6 F BPMR 7 A	0.5 0.02	2,200		9,400- 10,100	12 8.8	40 29.5	50 37	
TS 800 4224	HS-314A WJ-114A		–	  1 1/2 (24/16) 1 (16/16)	98.5 6.1	0.30 (+0.10/-0.10) 0.012 (+0.004/-0.004)	WSR 6 F BPMR 7 A	0.5 0.02	2,200		9,400- 10,100	12 8.8	40 29.5	50 37	



SPEC CHART

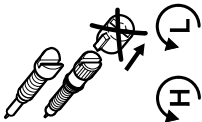
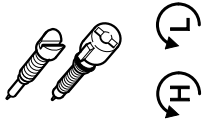
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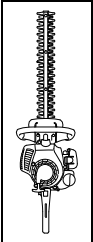
		 H L	  	  	 cc cu.in.	 mm in.	 BOSCH NGK	 mm in.	 1/min @ r.p.m.	 1/min @ r.p.m.	 1/min @ r.p.m.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	
TS 350 4201	HL-366 HL-371A				60.3 3.67	0.25 (+0.05/-0.05) 0.01 (+0.002/-0.002)	WSR 6 F BPMR 7 A	0.5 0.02	2,500		9,500	10.5 8	27.5 20.5	30 22	
															
TS 400 4223	HS-279D WJ-108A				64.1 3.91	0.30 (+0.10/-0.10) 0.012 (+0.004/-0.004)	WSR 6 F BPMR 7 A	0.5 0.02	2,500		9,700	10 7.5	30 22	40 29.5	
	HS-274E														
TS 460 4221	HS-275B				72.4 4.41	0.30 (+0.20/-0.10) 0.012 (+0.008/-0.004)	WSR 6 F BPMR 7 A	0.5 0.02	2,500		9,700	10 7.5	25 18.5	40 29.5	40 29.5
	HS-276D														
TS 510 4205	HS-280D				89.2 5.43	0.20 (+0.00/-0.05) 0.00812 (+0.000/-0.002)	WSR 6 F BPMR 7 A	0.5 0.02	1,800		9,000	7.5 5.5	33 24.5	78 58	40 29.5
	HS-281D				111 6.76	0.25 (+0.05/-0.05) 0.01 (+0.002/-0.002)	WSR 6 F BPMR 7 A	0.5 0.02	1,800		9,000 8,200 ¹⁾	9.5 7	33 24.5	78 58	50 37



SPEC CHART

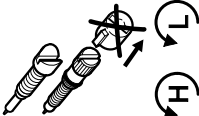
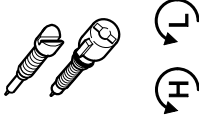
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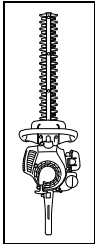
	 H L			 cc cu.in.	 mm in.	 BOSCH NGK	 mm in.	 1/min @ r.p.m.	 1/min @ r.p.m.	 1/min @ r.p.m.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.
BT 45 4314	 -	 1 1/2 (24/16)	 1 (16/16)	27.2 1.67	0.30 (+0.15/-0.15) 0.012 (+0.0.006/-0.006)	WSR 6 F BPMR 7 A	0.5 0.02	2,800		9,500	9 6.5	17 12.5	17 12.5	Nm lbf.ft.	
BT 121 4313	 -	 1 3/4 (28/16)	 1 (16/16)	30.8 1.88	0.30 (+0.20/-0.10) 0.012 (+0.0.008/-0.004)	WSR 6 F BPMR 7 A	0.5 0.02	2,800		12,300	10.0 7.5	32 24		24 17.5	12 9
BT 131 4313	 -	 3 1/2 (56/16)	 1 1/4 (20/16)	36.3 2.22		CMR 6 H	0.5 0.02	2,800		9,500	9 6.5	17 12.5	17 12.5		12 9
BT 120 C 4313	 -	 1 3/4 (28/16)	 1 (16/16)	30.8 1.88	0.30 (+0.20/-0.10) 0.012 (+0.0.008/-0.004)	WSR 6 F BPMR 7 A	0.5 0.02	2,800		12,300	10.0 7.5	32 24		24 17.5	12 9



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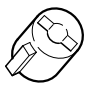
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		 H L			 cc cu.in.	 mm in.	 BOSCH NGK	 mm in.	 n_L 1/min @ r.p.m.	 n_R 1/min @ r.p.m.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 mm in.
HS 45 4228	C1Q-S70 C1Q-S169				27.2 1.66	0.30 (+0.15/-0.15) 0.012 (+0.006/-0.006)	WSR 6 F BPMR 7 A	0.5 0.02	2,800	9,500	17 12.5	17 12.5	17 12.5	17 12.5	17 12.5	0.1 0.004
HL 45 4232	C1Q-S44 C1Q-S53 C1Q-S58				27.2 1.66	0.30 (+0.15/-0.15) 0.012 (+0.006/-0.006)	WSR 6 F BPMR 7 A	0.5 0.02	2,800	9,500	17 12.5	17 12.5	17 12.5	17 12.5	17 12.5	0.1 0.004
HS 46, 56 C 4242	C1T-S195C				21.4 1.31	0.25 (+0.15/-0.10) 0.01 (+0.006/-0.004)	CMR 6 H	0.5 0.02	2,900	9,300	8 6	25 18.4	17 12.5	17 12.5	17 12.5	0.1 0.004
HS 81, 86 4237	C1Q-S105 C1Q-S115B C1Q-S140				22.7 1.39	0.25 (+0.15/-0.10) 0.01 (+0.006/-0.004)	USR 7 AC	0.5 0.02	2,800	9,100	9 6.5	25 18.4	17 12.5	17 12.5	17 12.5	0.1 0.004
HL 90 4280	C1Q-S131B				28.4 1.73	0.25 (+0.05/-0.10) 0.01 (+0.002/-0.004)	USR 7 AC CMR 6 H	0.5 0.02	2,800	10,500	9 6.5	17 12.5	17 12.5	17 12.5	17 12.5	0.1 0.004
HL 100 4280	C1Q-S72 C1Q-S81 C1Q-S88				31.4 1.92	0.25 (+0.05/-0.10) 0.01 (+0.002/-0.004)	USR 7 AC	0.5 0.02	2,800	10,300- 10,700	9 6.5	17 12.5	17 12.5	17 12.5	17 12.5	0.1 0.004
HL 100 4280	C1Q-S110				31.4 1.92	0.25 (+0.05/-0.10) 0.01 (+0.002/-0.004)	USR 7 AC	0.5 0.02	2,800	10,300- 10,700	9 6.5	17 12.5	17 12.5	17 12.5	17 12.5	0.1 0.004
HL 100 4280	C1Q-S131B				31.4 1.92	0.25 (+0.05/-0.10) 0.01 (+0.002/-0.004)	USR 7 AC	0.5 0.02	2,800	10,300- 10,700	9 6.5	17 12.5	17 12.5	17 12.5	17 12.5	0.1 0.004



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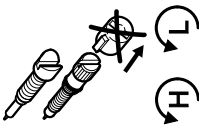
	 H L	 	 	 cc cu.in.	 mm in.	 BOSCH NGK	 mm in.	 1/min @ r.p.m.	 1/min @ r.p.m.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 mm in.	
HS 75, 80, 85 4226	C1Q-S29 C1Q-S42	-	-	1 (16/16)	-	-	-	-	-	-	-	-	-	-	-
	WT 412 A	-	-	1 (16/16)	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-	-
HL 73 4235		-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C1Q-S28 C1Q-S41	-	-	1 (16/16)	-	-	-	-	-	-	-	-	-	-	-
	C1Q-S45 C1Q-S56	-	-	LD = 2	-	-	-	-	-	-	-	-	-	-	-
HL 75, FH 75 4230	C1Q-S63 C1Q-S69	-	-	1 1/2 (24/16)	3/4 (12/16)	1 (16/16)	-	-	-	-	-	-	-	-	-
	4149/02			1 1/2 (24/16)	2 1/2 (40/16)	1 1/2 (16/16)	-	-	-	-	-	-	-	-	-
	RC2-S243A			1 1/4 (20/16)	1 1/2 (24/16)	1 1/2 (16/16)	-	-	-	-	-	-	-	-	-
HL 91, 94 4243															



THILS

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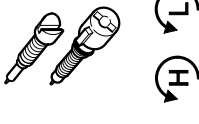
THILS

		 H L	  	  	 cc cu.in.	 mm in.	 BOSCH NGK	 mm in.	 1/min @ r.p.m.	 1/min @ r.p.m.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 mm in.
KM 55 4140	C1M-S145A C1Q-S66 C1Q-S97		-	 1 1/2 (24/16)	1 1/2 (16/16)	1 3/4 (28/16)	1 3/4 (16/16)	1 3/4 (12/16)	1 (16/16)	1 (16/16)	3/4 (12/16)	3/4 (12/16)	3/4 (12/16)	3/4 (12/16)	3/4 (12/16)	1 (16/16)
				1 1/2 (24/16)												
				1 3/4 (28/16)												
KM 56 4144	C1Q-S143 C1Q-S160			 2 1/8 (34/16)	1 3/8 (22/16)	1 3/4 (12/16)	1 3/4 (12/16)	1 3/4 (12/16)	3/4 (12/16)	3/4 (12/16)	3/4 (12/16)	3/4 (12/16)	3/4 (12/16)	3/4 (12/16)	3/4 (12/16)	3/4 (12/16)
				1 1/2 (24/16)												
				1 1/2 (24/16)												
KM 85 4137	C1Q-S63 C1Q-S69		-	 1 1/2 (24/16)	1 1/2 (16/16)	1 3/4 (12/16)	1 3/4 (12/16)	1 3/4 (12/16)	1 (16/16)	1 (16/16)	3/4 (12/16)	3/4 (12/16)	3/4 (12/16)	3/4 (12/16)	3/4 (12/16)	1 (16/16)
				1 1/2 (24/16)												
				1 3/4 (12/16)												
KM 90 4180	C1Q-S110			 3 1/2 (56/16)	1 1/4 (20/16)	1 3/4 (28/16)	1 3/4 (12/16)	1 3/4 (12/16)	1 (16/16)	1 (16/16)	3/4 (12/16)	3/4 (12/16)	3/4 (12/16)	3/4 (12/16)	3/4 (12/16)	1 (16/16)
				3 1/2 (56/16)												
				1 3/4 (28/16)												
KM 91 4180	C1Q-100345			 3 1/2 (56/16)	1 3/4 (28/16)	1 3/4 (12/16)	1 3/4 (12/16)	1 3/4 (12/16)	1 (16/16)	1 (16/16)	3/4 (12/16)	3/4 (12/16)	3/4 (12/16)	3/4 (12/16)	3/4 (12/16)	1 (16/16)
				3 1/2 (56/16)												
				1 3/4 (28/16)												
KM 94 4149	4149/02 RC2-S243A			 1 1/2 (24/16)	1 1/2 (40/16)	1 1/2 (20/16)	1 1/2 (16/16)	1 1/2 (16/16)	1 (16/16)	1 (16/16)	3/4 (12/16)	3/4 (12/16)	3/4 (12/16)	3/4 (12/16)	3/4 (12/16)	1 (16/16)
				1 1/2 (24/16)												
				1 1/4 (20/16)												



SPEC CHART

STIHL

	 H L					 cc cu.in.	 mm in.	 BOSCH NGK	 mm in.	 1/min @ r.p.m.	 1/min @ r.p.m.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 Nm lbf.ft.	 mm in.
		 1 1/2 (24/16)	 1 (16/16)	 3/4 (12/16)	 1 (16/16)													
KM 55 4140	C1M-S145A C1Q-S66 C1Q-S97		-			27.2 1.66	0.30 (+0.15/-0.15) 0.012 (+0.006/-0.006)	WSR 6 F BPMR 7 A	0.5 0.02	2,800	9,500	9 6.5		17 12.5				
	C1Q-S71		-	1 3/4 (28/16)	1 (16/16)									17 12.5				
	C1Q-S143 C1Q-S160		2 1/8 (34/16)	1 3/8 (22/16)	3/4 (12/16)													
	C1M-S146B C1M-S145A		1 1/2 (24/16)	1 (16/16)	3/4 (12/16)	27.2 1.66	0.30 (+0.15/-0.15) 0.012 (+0.006/-0.006)	CMR 6 H	0.5 0.02	2,800	10,000	9 6.5		20 14.5	17 12.5	14 10		
KM 85 4137	C1Q-S63 C1Q-S69		1 1/2 (24/16)	1 (16/16)	3/4 (12/16)	25.4 1.55	0.30 (+0.15/-0.15) 0.012 (+0.006/-0.006)	WSR 6 F BPMR 7 A	0.5 0.02	2,800	10,500	9 6.5		26 19				
KM 90 4180	C1Q-S110		3 1/2 (56/16)	1 1/4 (20/16)	3/4 (12/16)	28.4 1.73	0.25 (+0.05/-0.10) 0.01 (+0.002/-0.004)	USR 7 AC	0.5 0.02	2,800	10,500	9 6.5			17 12.5			0.1 0.004
KM 91 4180	C1Q-100345		3 1/2 (56/16)	1 3/4 (28/16)	-	28.4 1.73	0.25 (+0.05/-0.10) 0.01 (+0.002/-0.004)	USR 7 AC	0.5 0.02	2,800	9,500	9 6.5						0.1 0.004
KM 94 4149	4149/02		1 1/2 (24/16)	2 1/2 (40/16)	-	24.1 1.47	0.25 (+0.05/-0.10) 0.01 (+0.002/-0.004)	CMR 6H USR 4 AC	0.5 0.02	2,800	9,800	8 6		17 12.5		17 12.5		
	RC2-S243A		1 1/4 (20/16)	1 1/2 (24/16)	-											M6: 12 9 M8: 16 11.8		

STIHL

[illegible]

Carburetor Reference Charts & Kits

Model Number	Carb Model	Carb Number	Substitute	IPL Repair Kit	Vendor Repair Kit
Chain Saws					
Contra Lightning	HL122D	1106 120 0606	NLA	N/A	0000 007 1056
07/07 S	HL155	1107 120 0606	NLA	N/A	0000 007 1057
08 S	HL155	1107 120 0606	NLA	N/A	0000 007 1057
	HL166	1108 120 0601/7	1108 120 0608	1106 007 1061	0000 007 1057
	LA-S8	1108 120 0608		1106 007 1061	0000 007 1084
S 10	HL155	1107 120 0606		N/A	0000 007 1057
	HL166	N/A		1106 007 1061	0000 007 1057
	HS-62	1108 120 0603	NLA	N/A	0000 007 1059
009	WA-56	1120 120 0600	1120 120 0605	N/A	0000 007 1064
	CIS-S1	1120 120 0605		4119 007 1060	0000 007 1082
	WT-323	1120 120 0606	NLA	N/A	0000 007 1065
	WT-563	1120 120 0601	NLA	N/A	N/A
	WA-99	1120 120 0602		N/A	0000 007 1063
	WT-29	1120 120 0604	1120 120 0605	N/A	0000 007 1065
	WT-21	1120 120 0603	NLA	N/A	0000 007 1065
010	WA-56	1120 120 0600	1120 120 0605	N/A	0000 007 1064
	WT-29	1120 120 0604	1120 120 0605	N/A	0000 007 1065
	CIS-S1	1120 120 0605		4119 007 1060	0000 007 1082
	WA-99	1120 120 0602		N/A	0000 007 1063
011	WT-21	1120 120 0603	NLA	N/A	0000 007 1065
	WT-29	1120 120 0604	1120 120 0605	N/A	0000 007 1065
	CIS-S1	1120 120 0605		4119 007 1060	0000 007 1082
	WA-99	1120 120 0602		N/A	0000 007 1063
012	CIS-S1	1120 120 0605		4119 007 1060	0000 007 1082
	WT-29	1120 120 0604	1120 120 0605	N/A	0000 007 1065
015	HDC-17	1116 120 0600	NLA	N/A	0000 007 1067
MS 150	CIQ-S262	1146 120 0604		1146 007 1000	7010 871 0236
MS 151 C-E	1146/05	1146 120 0605		1146 007 1000	7010 871 0236
MS 151 T	1146/05	1146 120 0605		1146 007 1000	7010 871 0236
020AV	WT-15	1114 120 0604	NLA	N/A	0000 007 1065
	WA-1	1114 120 0601	NLA	N/A	0000 007 1063
	WA-86	1114 120 0602	NLA	N/A	0000 007 1063
	HU-7A	1114 120 0600	NLA	N/A	0000 007 1052
017, MS 170	CIQ-S57	1130 120 0603		1130 007 1061	0000 007 1086
	WT-325	1130 120 0600	1130 120 0603	"1123 007 1061 1130 007 1001"	0000 007 1076
	CIQ-S43	1130 120 0601	1130 120 0603	1130 007 1061	0000 007 1086
MS 171	CIQ-S123	1139 120 0607		4229 007 1060	7010 871 0229
	CIQ-238	1139 120 0615		4229 007 1060	7010 871 0229
	CIQ-S270	1139 120 0619	1139 120 0630	4229 007 1060	7010 871 0229
	CIQ-1139/29	1139 120 0629	1139 120 0630	4229 007 1060	7010 871 0229
	CIQ-1139/30	1139 120 0630		Z010 003 K018	N/A
018, MS 180	CIQ-S57	1130 120 0603	1130 120 0603	1130 007 1061	0000 007 1086
	CIQ-S43	1130 120 0601	1130 120 0630	1130 007 1061	0000 007 1086
MS 181	CIQ-S121	1139 120 0605		4229 007 1060	7010 871 0229
	CIQ-S122	1139 120 0606		4229 007 1060	7010 871 0229
	CIQ-S191	1139 120 0608		4229 007 1060	7010 871 0229
	CIQ-S239	1139 120 0616		4229 007 1060	7010 871 0229
	CIQ-S268	1139 120 0612	1139 120 0624	4229 007 1060	7010 871 0229

Carburetor Reference Charts & Kits

Model Number	Carb Model	Carb Number	Substitute	IPL Repair Kit	Vendor Repair Kit
MS 181	1139/22	1139 120 0622	1139 120 0624	4229 007 1060	7010 871 0229
	C1Q-1139/24	1139 120 0624		Z010 003 K018	
MS 181 C-B E	C1Q-S192	1139 120 0609		4229 007 1060	7010 871 0229
	C1Q-269	1139 120 0613	1139 120 0625	4229 007 1060	7010 871 0229
	1139/23	1139 120 0623	1139 120 0625	4229 007 1060	7010 871 0229
	C1Q-1139/25	1139 120 0625		Z010 003 K018	
019 T	C1Q-S46	1132 120 0603		1123 007 1060	RB-72
	WT-451	1132 120 0600	1132 120 0603	1123 007 1061	0000 007 1072
MS 191 T	C1Q-S59	1132 120 0604	NLA	1129 007 1062	RB-91
MS 192 T	C1Q-S103	1137 120 0600A	1137 120 0650	1129 007 1062	0000 007 1093
	C1Q-S134	1137 120 0600B	1137 120 0650	1129 007 1062	0000 007 1093
	C1Q-S257	1137 120 0650		1129 007 1062	0000 007 1093
	C1Q-S104	1137 120 0602A	1137 120 0651	1129 007 1062	0000 007 1093
MS 192 T C-E	C1Q-S135	1137 120 0602B	1137 120 0651	1129 007 1062	0000 007 1093
	C1Q-S258	1137 120 0651		1129 007 1062	0000 007 1093
MS 192 C-E	C1Q-S124	1137 120 0603	1137 120 0652	1129 007 1062	0000 007 1093
	C1Q-S259	1137 120 0652		1129 007 1062	0000 007 1093
MS 193 C-E	1137-113	1137 120 0613		1137 007 1701	RB-236
	1137/17	1137 120 0617		1137 007 1701	RB-236
MS 193 T	1137-06	1137 120 0606		1137 007 1701	RB-236
	1137/17	1137 120 0617		1137 007 1701	RB-236
MS 194 C-E	1137/21	1137 120 0621		1137 007 1701	
MS 194 T	1137/21	1137 120 0621		1137 007 1701	
020 T / MS 200	C1Q-S16	1129 120 0601	NLA	1129 007 1060	0000 007 1081
	C1Q-S32	1129 120 0650		1129 007 1062	0000 007 1093
	C1Q-S61	1129 120 0651	1129 120 0653	1129 007 1062	0000 007 1093
	WT-326	1129 120 0606	1129 120 0653	1129 007 1062	0000 007 1075
	C1Q-S96	1129 120 0607	1129 120 0654	1129 007 1062	0000 007 1093
	C1Q-S126	1129 120 06S3		1129 007 1062	0000 007 1093
	C1Q-S127	1129 120 06S4		1129 007 1062	0000 007 1093
MS 201 T	C1Q-S188	1145 120 0600	1145 120 0652	1145 007 1700	7010 871 0227
	C1Q-S214	1145 120 0604	1145 120 0652	1145 007 1700	7010 871 0227
	C1Q-S248	1145 120 0650		1145 007 1700	7010 871 0227
	C1Q-S250	1145 120 0608	1145 120 0617	1145 007 1700	7010 871 0227
	C1Q-S280	1145 120 0617		1143 007 1703	
	C1Q-S283	1145 120 0652		1143 007 1703	
MS 201 C-E	C1Q-S189	1145 120 0602	1145 120 0653	1145 007 1700	7010 871 0227
	C1Q-S215	1145 120 0605	1145 120 0653	1145 007 1700	7010 871 0227
	C1Q-S249	1145 120 0651	1145 120 0653	1145 007 1700	7010 871 0227
	C1Q-S284	1145 120 0653		1145 007 1700	7010 871 0227
	C1Q-S281	1145 120 0618		1143 007 1703	
MS 201 T C-M	C1Q-S274	1145 120 0616	1145 120 0627	1145 007 1700	RB-247
	C1Q-1145/27	1145 120 0627		1143 007 1703	
MS 201 C-EM	C1Q-S273	1145 120 0613	1145 120 0626	1145 007 1700	RB-247
	C1Q-1145/26	1145 120 0626		1143 007 1703	

Carburetor Reference Charts & Kits

Model Number	Carb Model	Carb Number	Substitute	IPL Repair Kit	Vendor Repair Kit
MS 211	CIQ-S119	1139 120 0601		4229 007 1060	7010 871 0229
	CIQ-S268	1139 120 0612	1139 120 0624	4229 007 1060	7010 871 0229
	CIQ-S240	1139 120 0617		4229 007 1060	7010 871 0229
	1139/22	1139 120 0622	1139 120 0624	4229 007 1060	7010 871 0229
	CIQ-1139/24	1139 120 0624		Z010 003 K018	
MS 211 C-BE	CIQ-S269	1139 120 0613	1139 120 0625	4229 007 1060	7010 871 0229
	CIQ-S241	1139 120 0618		4229 007 1060	7010 871 0229
	CIQ-S120	1139 120 0602		4229 007 1060	7010 871 0229
	1139/23	1139 120 0623		4229 007 1060	7010 871 0229
	CIQ-1139/25	1139 120 0625	1139 120 0625	Z010 003 K018	
023, MS 230	WT-215	1123 120 0605		1123 007 1061	0000 007 1072
	WT-283	1123 120 1610	NLA	1123 007 1061	0000 007 1072
	WT-286	1123 120 0615	NLA	1123 007 1061	0000 007 1072
	WT-360	1123 120 0611	NLA	1123 007 1061	0000 007 1072
	WT-396	1123 120 0613	NLA	1123 007 1061	0000 007 1072
	WT-498	1123 120 0616	NLA	1123 007 1061	0000 007 1073
	CIQ-S76	1123 120 0603		1123 007 1060	0000 007 1040
	CIQ-S92	1123 120 0620		1123 007 1060	0000 007 1040
	CIQ-S85	1123 120 0607	1123 120 0603	1123 007 1060	0000 007 1040
025, MS 250	WT-215	1123 120 0605		1123 007 1061	0000 007 1072
	WT-283	1123 120 0610	NLA	1123 007 1061	0000 007 1072
	WT-286	1123 120 0615	NLA	1123 007 1061	0000 007 1072
	WT-313	1123 120 0612	NLA	1123 007 1061	0000 007 1072
	CIQ-S11	1123 120 0600	1123 120 0605	1123 007 1060	0000 007 1081
	CIQ-S75	1123 120 0602		1123 007 1060	0000 007 1040
	CIQ-S76	1123 120 0603		1123 007 1060	0000 007 1040
	CIQ-S85	1123 120 0607	1123 120 0603	1123 007 1060	0000 007 1040
	CIQ-S242	1123 120 0607	1123 120 0603	1123 007 1060	0000 007 1040
MS 251	WTF-8	1143 120 0602		1143 007 1700	7010 871 0226
	CIQ-S233	1143 120 0605	1143 120 0611	1145 007 1700	RB-230
	CIQ-295	1143 120 0611		1143 007 1703	
MS 251 C-BE	WTF-9	1143 120 0632		1143 007 1700	7010 871 0226
	CIQ-S234	1143 120 0635	1143 120 0641	1145 007 1700	RB-230
	CIQ-1143/39	1143 120 0641		1143 007 1703	
021, MS 210	WT-215	1123 120 0605		1123 007 1061	0000 007 1072
	WT-286	1123 120 0615	NLA	1123 007 1061	0000 007 1072
	WT-503	1123 120 0614	NLA	1123 007 1061	0000 007 1072
	CIQ-S11	1123 120 0600	1123 120 0605	1123 007 1060	0000 007 1081
	CIQ-S77	1123 120 0604		1123 007 1060	0000 007 1040
	CIQ-S87	1123 120 0609	NLA	1123 007 1060	0000 007 1040
	CIQ-S90	1123 120 0619		1123 007 1060	0000 007 1040
	CIQ-S86	1123 120 0608	NLA	1123 007 1060	0000 007 1040

Carburetor Reference Charts & Kits

Model Number	Carb Model	Carb Number	Substitute	IPL Repair Kit	Vendor Repair Kit
024	HU-54	1121 120 0600	NLA	1118 007 1065	0000 007 1052
	WT-426	1121 120 0650	1121 120 0611	1118 007 1066	0000 007 1072
	WT-194	1121 120 0606	1121 120 0611	N/A	0000 007 1072
	WT-22	1121 120 0601	1121 120 0611	N/A	0000 007 1065
026 / MS 260	WT-403	1121 120 0610	1121 120 0602	1121 007 1062	0000 007 1072
	WT-426	1121 120 0611		1121 007 1062	0000 007 1072
	WT-427	1121 120 0612	NLA	1121 007 1062	0000 007 1072
	WT-590	1121 120 0616	NLA	1121 007 1062	
	WT-194	1121 120 0606	1121 120 0611	N/A	0000 007 1072
	WT-22	1121 120 0601	1121 120 0611	N/A	0000 007 1065
	WT-394	1121 120 0608	1121 120 0611	N/A	0000 007 1072
	WT-493	1121 120 0613	1121 120 0602	1121 007 1062	0000 007 1072
	WTE-1	1121 120 0602		1121 007 1063	7010 871 0232
MS 241 C-M	WTF-1	1143 120 0600		1143 007 1700	7010 871 0226
	CIQ-S275	1143 120 0654		1143 007 1301	
MS 261 / C-Q	CIQ-S178	1141 120 0600	1141 120 0606	1141 007 1006	7010 871 0202
	CIQ-S211	1141 120 0606		1141 007 1006	7010 871 0202
	CIQ-S252	1141 120 0616		1141 007 1030	7010 871 0202
	CIQ-100361	1141 120 0636		1141 007 1030	
	CIQ-S253	1141 120 0617		1141 007 1030	
	CIQ-S212	1141 120 0610		1141 007 1030	
	CIQ-S179	1141 120 0602	1141 120 0610	1141 007 1030	
	1141/36	1141 120 0636		1141 007 1030	
	CIQ-1141/16	1141 120 0646		1141 007 1030	
MS 261 C-M / C-MQ	CIQ-S229	1141 120 0620	1141 120 0603	1141 007 1006	7010 871 0202
	CIQ-100362	1141 120 0630		1141 007 1030	
	CIQ1141/40	1141 120 0640		1141 007 1030	
MS 270	HD-33	1133 120 0604		1128 007 1066	0000 007 1074
MS 271 / 291	CIQ-S178	1141 120 0600	1141 120 0606	1141 007 1006	7010 871 0202
	CIQ-S181	1141 120 0601	1141 120 0606	1141 007 1006	7010 871 0202
	CIQ-S211	1141 120 0606		1141 007 1006	7010 871 0202
	CIQ-S246	1141 120 0611		1141 007 1030	7010 871 0202
	CIQ-S252	1141 120 0616		1141 007 1030	7010 871 0202
MS 291 C-BEQ	CIQ-S182	1141 120 0603	1141 120 0610	1141 007 1006	7010 871 0202
	CIQ-S179	1141 120 0602	1141 120 0610	1141 007 1006	7010 871 0202
	CIQ-S212	1141 120 0610		1141 007 1006	7010 871 0202
	CIQ-S247	1141 120 0615	1141 120 0611	1141 007 1030	7010 871 0202
	CIQ-S253	1141 120 0617		1141 007 1030	7010 871 0202
028	WT-16	1118 120 0601	NLA	1120 007 1064	0000 007 1065
	HU-40	1118 120 0600	NLA	1118 007 1065	0000 007 1052
MS 280	HD-39	1133 120 0612		1128 007 1066	0000 007 1074
	HD-32	1133 120 0607		1128 007 1066	0000 007 1074
029 / MS 290	HD-5	1127 120 0601	1127 120 0650	1127 007 1060	0000 007 1074
	HD-18	1127 120 0604			0000 007 1074
	HD-19	1127 120 0650			0000 007 1074
030 / 031	HU-3G	1113 120 0600	NLA	N/A	0000 007 1052
	WA-2	1113 120 0602	NLA	N/A	0000 007 1063
MS 310	HD-19	1127 120 0650		1127 007 1062	0000 007 1074
	HD-21	1127 120 0605		1127 007 1062	0000 007 1074

Carburetor Reference Charts & Kits

Model Number	Carb Model	Carb Number	Substitute	IPL Repair Kit	Vendor Repair Kit
MS 311 / 391	WTE-9	1140 120 0601		1140 007 1004	7010 871 0232
	WTE-16	1140 120 0603		1140 007 1004	7010 871 0232
032	HU-51	1113 120 0604	NLA	1118 007 1060	0000 007 1052
	WA-49	1113 120 0603	NLA	1113 007 1060	0000 007 1063
034	C3A-S19	1125 120 0606	1125 120 0613	1128 007 1065	0000 007 1079
	C3A-S26	1125 120 0608		N/A	0000 007 1079
	C3A-S31	1125 120 0651	1125 120 0613	1128 007 1065	0000 007 1079
	C3A-S38	1125 120 0617	1125 120 0613	1128 007 1065	0000 007 1079
	C3A-S39	1125 120 0615		1125 007 1065	0000 007 1079
	HK-43	1125 120 0600		1119 007 1065	0000 007 1060
	C3A-S4	1125 120 0604	1125 120 0613	N/A	0000 007 1079
036 / MS 360	C3A-S27	1125 120 0609	NLA	1128 007 1065	0000 007 1079
	C3A-S31	1125 120 0651	1125 120 0613	1128 007 1065	0000 007 1079
	C3A-S39	1125 120 0615		1128 007 1065	0000 007 1079
	C3A-S52	1125 120 0612		1128 007 1065	0000 007 1079
	C3A-S65	1125 120 0614		1128 007 1065	0000 007 1079
MS 361	HD-34	1135 120 0601		1128 007 1066	0000 007 1074
MS 362	WTE-8	1140 120 0600		1140 007 1004	7010 871 0232
	WTE-18	1140 120 0606		1140 007 1004	7010 871 0232
	WTE-22	1140 120 0610		1140 007 1004	
	CIQ-100357	1140 120 0604		1140 007 1701	
MS 362 C-M	CIQ-S235	1140 120 0604		1140 007 1701	7010 871 0254
	1140/15	1140 120 0615		1140 007 1703	
	1140/16	1140 120 0616		1140 007 1703	
038	Bing 48-A 101	1119 120 0650	1119 120 0605	1119 007 1062 (DG)	1119 007 1066 (RK)
	HK-42	1119 120 0601	1119 120 0605	N/A	0000 007 1060
	HK-29A	1119 120 0600	1119 120 0605	N/A	0000 007 1054
	HK-29B	1119 120 0600	1119 120 0605	N/A	0000 007 1060
	C3-S148	1119 120 0605		N/A	
039, MS 390	HD-5	1127 120 0601	1127 120 0650	1127 007 1060	0000 007 1074
	HD-19	1127 120 0650		1127 007 1062	0000 007 1074
	HD-21	1127 120 0605		1127 007 1062	0000 007 1074
040	HS-29D	1110 120 0603	NLA	N/A	0000 007 1053
041	HS-138B	1110 120 0607/9	NLA	N/A	0000 007 1059
	HS-77C	1110 120 0606	NLA	N/A	0000 007 1053
	HS-181C	1110 120 0610	NLA	N/A	0000 007 1053
	HS-138B	1110 120 0607/9	NLA	N/A	0000 007 1059
	HS-208B	1110 120 0611	NLA	N/A	0000 007 1053
042 042	WS-3	1117 120 0600	NLA	N/A	0000 007 1069
	WS-13	1117 120 0600	NLA	N/A	0000 007 1069
	WS-14	1117 120 0602	NLA	N/A	0000 007 1070
	WS-25	1117 120 0603	NLA	N/A	0000 007 1070
044 / MS 440	HD-10	1128 120 0619	1128 120 0625	1128 007 1066	0000 007 1071
	HD-11	1128 120 0620	1128 120 0625	1128 007 1066	0000 007 1071
	HD-15	1128 120 0625		1128 007 1066	0000 007 1074
	HD-17	1128 120 0622		1128 007 1066	0000 007 1074
	C3M-S5E	1128 120 0601	1128 120 0625	1128 007 1065	0000 007 1080
	C3M-S5G	1128 120 0617	1128 120 0625	1128 007 1065	0000 007 1080
	C3M-S12B	1128 120 0615	NLA	1128 007 1065	0000 007 1080

Carburetor Reference Charts & Kits

Model Number	Carb Model	Carb Number	Substitute	IPL Repair Kit	Vendor Repair Kit
044 / MS 440	C3M-S12A	1128 120 0603	NLA	1128 007 1065	0000 007 1080
	C3M-S20	1128 120 0606		1128 007 1065	0000 007 1080
	C3M-S22	1128 120 0611		1128 007 1065	0000 007 1080
	C3M-S23	1128 120 0616	NLA	1128 007 1065	0000 007 1080
	C3M-S24	1128 120 0618	1128 120 0625	1127 007 1065	0000 007 1080
MS 441	HD-41	1138 120 0600		1128 007 1066	0000 007 1074
MS 441 C-M	HD-47	1138 120 0605	1138 007 1008	1128 007 1066	7010 871 0230
	HD-49	1138 120 0606	1138 007 1008	1128 007 1066	7010 871 0230
	HD-49	1138 120 0650	1138 007 1008	1128 007 1066	7010 871 0230
046, MS 460	HD-8	1128 120 0610	1128 120 0624	N/A	0000 007 1071
	HD-9	1128 120 0620	1128 120 0625	N/A	0000 007 1071
	HD-14	1128 120 0624		1128 007 1066	0000 007 1074
	HD-16	1128 120 0623		1128 007 1066	0000 007 1074
MS 461	HD-50	1128 120 0629		1128 007 1066	0000 007 1074
MS 462	1142/03	1142 120 0603		1142 007 1700	
045	HS-118	1115 120 0600	NLA	1115 007 1060	0000 007 1058
048	WS-14	1117 120 0602	NLA	N/A	0000 007 1070
	WS-25	1117 120 0603	NLA	N/A	0000 007 1070
050	WS-11	N/A	NLA	1111 007 1060	0000 007 1070
	HS-60	1111 120 0601	NLA	1115 007 1060	0000 007 1059
051	WS-11	N/A	NLA	1111 007 1060	0000 007 1070
	HS-60	1111 120 0601	NLA	1115 007 1060	0000 007 1059
056	HS-118	1115 120 0600	NLA	1115 007 1060	0000 007 1058
	WJ-4	1115 120 0602	NLA	1122 007 1060	0000 007 1066
064	Bing 49-A	1122 120 0603	1122 120 0616	N/A	1122 007 1061
	WJ-10	1122 120 0602	1122 120 0616	1122 007 1060	0000 007 1066
	WJ-6	1122 120 0601	1122 120 0616	1122 007 1060	0000 007 1066
066 / MS 660 / MS 650	WJ-65	1122 120 0616		1122 007 1060	0000 007 1066
	WJ-34	1122 120 0608		1122 007 1060	0000 007 1066
	WJ-35	1122 120 0607	1122 120 0616	1122 007 1060	0000 007 1066
	WJ-41	1122 120 0605	1122 120 0616	N/A	0000 007 1066
	WJ-42	1122 120 0609	1122 120 0621	N/A	0000 007 1066
	WJ-52	1122 120 0615	1122 120 0621	1122 007 1060	0000 007 1066
	WJ-65	1122 120 0616		1122 007 1060	0000 007 1066
	WJ-67	1122 120 0621		1122 007 1060	0000 007 1066
	WJ-69	1122 120 0618		1122 007 1060	0000 007 1066
	WJ-134	1144 120 0610	1144 120 0614	1144 007 1700	7010 871 0256
MS 661 C-M	WJ-140	1144 120 0612		1144 007 1700	
	WJ-143	1144 120 0614		1144 007 1700	
070	LB-S9	1106 120 0650		1106 007 1061	0000 007 1084
	HL-244	1106 120 0607	1106 120 0650	1106 007 1060	0000 007 1055
	HL-324	1106 120 0611	1106 120 0650	1106 007 1060	0000 007 1055
076	WS-11	N/A		1111 007 1060	0000 007 1070
	HS-60	1111 120 0601	NLA	1115 007 1060	0000 007 1059
	WS-26	1111 120 0605	NLA	1111 007 1060	0000 007 1070
084	HT-1	1124 120 0600	NLA	1124 007 1060	0000 007 1059
	HT-2	1124 120 0602	NLA	1124 007 1060	0000 007 1059
	HT-3	1124 120 0603	NLA	1124 007 1060	0000 007 1059
	HT-5	1124 120 0605	NLA	1124 007 1060	0000 007 1059

Carburetor Reference Charts & Kits

Model Number	Carb Model	Carb Number	Substitute	IPL Repair Kit	Vendor Repair Kit
084	HT-7	1124 120 0607	NLA	1124 007 1060	0000 007 1059
088 / MS 880	HT-11A	1124 120 0608	NLA	1124 007 1060	0000 007 1062
	HT-11B	1124 120 0608	NLA	1124 007 1060	0000 007 1061
	HT-12	1124 120 0609	1124 120 0613	1124 007 1060	0000 007 1061
	WG-12	1124 120 0611		1124 007 1061	
	WG-13	1124 120 0613		1124 007 1061	
090	LB-S9	1106 120 0650		1106 007 1061	0000 007 1084
	HL-244	1106 120 0607	1106 120 0650	N/A	0000 007 1056
	HL-324	1106 120 0611	1106 120 0650	1106 007 1060	0000 007 1055
Blowers / Sprayers					
BG 45	CIQ-S48	4229 120 0601	NLA	1129 007 1062	0000 007 1088
	CIQ-S73	4229 120 0605	4229 120 0607	4229 007 1060	0000 007 1039
	CIQ-S112	4229 120 0607		4229 007 1060	
BG 46	CIQ-S73	4229 120 0605	4229 120 0670	4229 007 1060	0000 007 1039
	CIQ-S112	4229 120 0607		4229 007 1060	
BR 45	CIQ-S73	4229 120 0605	4229 120 0607	1129 007 1060	0000 007 1039
	CIQ-S112	4229 120 0607		4229 007 1060	
BG 50	CIQ-100332	4229 120 0608	4229 120 0650	4229 007 1060	
	CIQ-100332D	4229 120 0610	4229 120 0650	4229 007 1700	
	4229/10	4229 120 0650		4229 007 1700	
BG 55 / 65 / 85	CIQ-S50	4229 120 0600	4229 120 0604	1129 007 1062	0000 007 1088
	CIQ-S55	4229 120 0604		1129 007 1062	0000 007 1091
	CIQ-S64	4229 120 0603	4229 120 0606	1129 007 1062	0000 007 1091
	CIQ-S68	4229 120 0606		4229 007 1060	
BG 60	WT-38	4117 120 0605	NLA	N/A	0000 007 1065
	Teikei	4210 120 0601		N/A	N/A
BG 61	WT-38	4117 120 0605	NLA	N/A	0000 007 1065
SH 55 / 85	CIQ-S50	4229 120 0600	4229 120 0604	1129 007 1062	0000 007 1088
	CIQ-S55	4229 120 0604		1129 007 1062	0000 007 1091
	CIQ-S64	4229 120 0603	4229 120 0606	1129 007 1062	0000 007 1091
	CIQ-S68	4229 120 0606		4229 007 1060	
BG 72	WT-253	4227 120 0600	NLA	4133 007 1060	0000 007 1073
	WT-330	4227 120 0601	NLA	4133 007 1060	0000 007 1073
BG 75	CIQ-S30	4227 120 0602	4229 120 0604	4227 007 1060	0000 007 1085
	CIQ-S47	4227 120 0604		4227 007 1060	0000 007 1089
	WT-413	4227 120 0603	4227 120 0604	4133 007 1060	0000 007 1073
BG/SH 56	CIM-S142	4241 120 0601	4241 120 0608	4241 007 1700	7010 871 0205
	CM1-S204	4241 120 0608		4241 007 1700	
	CM1-S260	4241 120 0615	4241 120 0622	4241 007 1700	
	4241/22	4241 120 0622		4241 007 1700	
BG 66	CIM-S144	4241 120 0602	4241 120 0624	4241 007 1700	7010 871 0206
	CIM-S205	4241 120 0609	4241 120 0624	4241 007 1700	7010 871 0206
	4241/24	4241 120 0624		4241 007 1700	
BG/SH 86	CIM-S141	4241 120 0600	4241 120 0607	4241 007 1700	7010 871 0205
	CIM-S203	4241 120 0607		4241 007 1700	7010 871 0205
	CIM-S228	4241 120 0606		4241 007 1700	7010 871 0205
	CIM-S261E	4241 120 0616	4241 120 0623	4241 007 1700	
	4241/23	4241 120 0623		4241 007 1700	

Carburetor Reference Charts & Kits

Model Number	Carb Model	Carb Number	Substitute	IPL Repair Kit	Vendor Repair Kit
BR 106	C1Q-SK6	4222 120 0600	NLA	4132 007 1061	0000 007 1078
BR 200 / SR 200	C1M-S201	4241 120 0604	4241 120 0625	4241 007 1700	7010 871 0205
	C1M-S205	4241 120 0609		4241 007 1700	7010 871 0206
	C1M-S206	4241 120 0610		4241 007 1700	7010 871 0205
	C1M-S219	4241 120 0611	4241 120 0625	4241 007 1700	7010 871 0205
	4241/19	4241 120 0619	4241 120 0625	4241 007 1700	
	4241/25	4241 120 0625		4241 007 1700	
	C/M-S244	4241 120 0605	4241 120 0626	4241 007 1700	
	C/M-S244	4241 120 0626		4241 007 1700	
BR 320 / 400	HD-2	4203 120 0600	4203 120 0601	4116 007 1061	0000 007 1071
	HD-4	4203 120 0601		4116 007 1061	0000 007 1071
	HD-7	4203 120 0602	NLA	N/A	0000 007 1074
	HD-13	4203 120 0603	NLA	4116 007 1061	0000 007 1071
BR 320 L	WT-230	4203 120 0605	NLA	4203 007 1061	0000 007 1073
	WT-331	4203 120 0606	NLA	4116 007 1061	0000 007 1073
	WT-489	4203 120 0607	NLA	4203 007 1061	0000 007 1073
BR 340 / 420	HD-28	4203 120 0608	4203 120 0610	4116 007 1061	0000 007 1071
	HD-29	4203 120 0604	4203 120 0610	4116 007 1061	0000 007 1071
BR 340 L	WT-580	4203 120 0609	NLA	4203 007 1061	0000 007 1072
BR 350	C1Q-S199	4244 120 0601	4244 120 0610	4228 007 1051	7010 871 0222
BR 350	C1Q-S209	4244 120 0603	4244 120 0611	4228 007 1051	7010 871 0222
BR 380	HD-45	4203 120 0610		4203 007 1061	0000 007 1071
BR 430/ BR 450/ SR430	C1Q-S165	4244-120-0602	4244 120 0611	4228 007 1051	7010 871 0222
	C1Q-S209	4244 120 0603	4244 120 0611	4228 007 1051	7010 871 0222
	C1Q-S220	4244 120 0606	4244 120 0611	4228 007 1051	7010 871 0222
BR 500	C1Q-S99	4282 120 0600	4282 120 0610	4180 007 1061	
	C1Q-S99A	4282 120 0603	4282 120 0610	4282 007 1700	
	C1Q-S183	4282 120 0606	4282 120 0610	4282 007 1700	
	4282/10	4282 120 0610		4282 007 1700	
BR 550	C1Q-S101	4282 120 0602	4282 120 0612	4180 007 1061	
	C1Q-S101A	4282 120 0605	4282 120 0612	4282 007 1700	
	C1Q-S185	4282 120 0608	4282 120 0612	4282 007 1700	
	C1Q-4282/12	4282 120 0612		4282 007 1700	
BR 600/ BR 700	C1Q-S100	4282 120 0601	4282 120 0611	4180 007 1061	
	C1Q-S184	4282 120 0607	4282 120 0611	4282 007 1700	
	C1Q-100347C	4282 120 0611		4282 007 1700	
BR 800	4283/01	4283 120 0601		4283 007 1700	
Hedge Trimmers					
HS 45	C1Q-S49	4228 120 0600	4228 120 0601	1129 007 1062	0000 007 1088
	C1Q-S54	4228 120 0601		1129 007 1062	0000 007 1094
	C1Q-S67	4228 120 0603	4228 120 0608	1129 007 1062	
	C1Q-S70	4228 120 0606	4228 120 0608	4228 007 1051	0000 007 1039
	C1Q-S169	4228 120 0608		4228 007 1051	7010 871 0222
HS 46 / HS 56	C1T-S195E	4242-120-0600 E	4242 120 0601	4242 007 1700	7010 871 0231
	C1T-S195F	4242 120 0600 F	4242 120 0601	4242 007 1701	7010 871 0385
HS 60	WT-189	4211 120 0602	NLA	4211 007 1060	0000 007 1072
HS 61	WT-189	4211 120 0602	NLA	4211 007 1060	0000 007 1072
HS 72 / 74 / 76	WT-264	4226 120 0600	NLA	4133 007 1060	0000 007 1073
	WT-329	4226 120 0601	NLA	4133 007 1060	0000 007 1073

Carburetor Reference Charts & Kits

Model Number	Carb Model	Carb Number	Substitute	IPL Repair Kit	Vendor Repair Kit
HS 75 / 80 / 85	CIQ-S29	4226 120 0602		4227 007 1060	0000 007 1085
	CIQ-S42	4226 120 0604		4227 007 1060	0000 007 1089
	WT-412	4226 120 0603		4133 007 1060	0000 007 1073
HS 81 / 86	CIQ-S105	4237 120 0601	4237 120 0618	4229 007 1060	
	CIQ-S115	4237 120 0604	4237 120 0618	4229 007 1060	
	CIQ-S196	4237 120 0609	4237 120 0618	4229 007 1060	
	CIQ-S218	4237 120 0612	4237 120 0618	4229 007 1060	
	CIQ-S225	4237 120 0618		4229 007 1060	
HS 81 T C-E	CIQ-S140	4237 120 0606	4237 120 0611	4229 007 1060	
	CIQ-S198	4237 120 0611		4229 007 1060	
HS 82 / 87	CIQ-S292	4237 120 0615		4229 007 1060	
HS 82 R / 82 T	4237/21	4237 120 0621		Z000 003 K004	
HS 87 R / 87 T	4237/21	4237 120 0621		Z000 003 K004	
HL 45	CIQ-S44	4140 120 0600	4140 120 0610	4227 007 1060	0000 007 1085
	CIQ-S53	4140 120 0601	4140 120 0610	4227 007 1060	0000 007 1089
	CIQ-S58	4140 120 0610		4227 007 1060	0000 007 1091
	CIQ-S66	4140 120 0603	4140 120 0619	1129 007 1062	0000 007 1094
	CIQ-S71	4140 120 0606	4140 120 0619	0000 007 1039	0000 007 1039
	CIQ-S97	4140 120 0612	4140 120 0619	0000 007 1039	0000 007 1039
	CIQ-S153	4140 120 0616	4140 120 0619	0000 007 1039	7010 871 0222
	CIQ-S186	4140 120 0619		0000 007 1039	7010 871 0222
	CIQ-S291	4140 120 0625		4228 007 1051	7010 871 0222
HL 56	CIM-S267	4144 120 0608		4241 007 1700	
HL 73 / 73 K	WYA-1	N/A		"4141 007 1003 (DG) 4141 007 1002 (RB)"	K20-WYA
	WYA-2	4141 120 0600	NLA	"4141 007 1003 (DG) 4141 007 1002 (RB)"	K20-WYA
	WYA-2D	4141 120 0601	NLA	"4141 007 1003 (DG) 4141 007 1002 (RB)"	K20-WYA
HL 75	CIQ-S28	4137 120 0600		4227 007 1060	0000 007 1085
	CIQ-S41	4137 120 0602		4227 007 1060	0000 007 1089
	CIQ-S45	4137 120 0603	4137 120 0604	4227 007 1060	0000 007 1085
	CIQ-S56	4137 120 0604		4227 007 1060	0000 007 1089
	CIQ-S63	4137 120 0606	4137 120 0628	1129 007 1062	0000 007 1094
	CIQ-S69	4137 120 0608	4137 120 0628	0000 007 1039	0000 007 1039
	CIQ-S157	4137 120 0614	4137 120 0628	4140 007 1060	0000 007 1039
	CIQ-S4137/28	4137 120 0628		4229 007 1060	
HL 90	CIQ-S131	4180 120 0608	4180 120 0611	4180 007 1060	
	CIQ-S110	4180 120 0604		4180 007 1060	
	CIQ-S174	4180 120 0611		4180 007 1060	
HL 91 / 91 K	RC2-S243	4149 120 0600		4149 007 1700	7010 871 0246
	4149/02	4149 120 0602		4149 007 1701	
HL 94	RC2-S243	4149 120 0600		4149 007 1700	7010 871 0246
	4149/02	4149 120 0602			
HL 100	CIQ-S72	4180 120 0600		4180 007 1060	
	CIQ-S131	4180 120 0608	4180 120 0611	4180 007 1060	
	CIQ-S110	4180 120 0604		4180 007 1060	
	CIQ-S88	4180 120 0603	4180 120 0604	4180 007 1060	0000 007 1041
	CIQ-S174	4180 120 0611		4180 007 1060	

Carburetor Reference Charts & Kits

Model Number	Carb Model	Carb Number	Substitute	IPL Repair Kit	Vendor Repair Kit
STIHL YARD BOSS®					
MM 55	CIQ-S79	4140 120 0607		0000 007 1039	0000 007 1039
	CIQ-S93	4140 120 0609	4601 120 0600	0000 007 1039	0000 007 1039
	CIQ-S202	4601 120 0600		4229 007 1060	
MM 56	4604/02	4604 120 0602		4241 007 1700	
Line Trimmers / Brushcutters					
FH 75	CIQ-S28	4137 120 0600		4227 007 1060	0000 007 1085
	CIQ-S41	4137 120 0602		4227 007 1060	0000 007 1089
	CIQ-S45	4137 120 0603	4137 120 0604	4227 007 1060	0000 007 1085
	CIQ-S56	4137 120 0604		4227 007 1060	0000 007 1089
	CIQ-S63	4137 120 0606	4137 120 0628	1129 007 1062	0000 007 1094
	CIQ-S69	4137 120 0608	4137 120 0628	0000 007 1039	0000 007 1039
	CIQ-S157	4137 120 0614	4137 120 0628	0000 007 1039	0000 007 1039
	CIQ-S4137/28	4137 120 0628		4229 007 1060	
FS 08	HL-166	1108 120 0601		1106 007 1061	0000 007 1057
FS 20	HS-138B	1110 120 0609	NLA	N/A	0000 007 1059
FS 36	WT-160	4130 120 0601	NLA	4130 007 1060	0000 007 1072
	WT-492	4130 120 0603	NLA	4130 007 1060	0000 007 1072
	WT-327	4130 120 0602	NLA	N/A	0000 007 1072
FS 38	CIQ-S97	4140 120 0612	4140 120 0619	0000 007 1039	0000 007 1039
	CIQ-S186	4140 120 0619		4140 007 1060	7010 871 0222
	CIQ-S291	4140 120 0625		4228 007 1051	7010 871 0222
FS 38 (2-MIX)	CIQ-S216	4140 120 0621		N/A	7010 871 0247
FS 40 (OLD)	WT-160	4130 120 0601	NLA	4130 007 1060	0000 007 1072
	WT-492	4130 120 0603	NLA	4130 007 1060	0000 007 1072
	WT-327	4130 120 0602	NLA	N/A	0000 007 1072
FS 40 / 40 C	CIM-S145	4144 120 0600	4144 120 0603	4241 007 1700	7010 871 0205
	CIM-S146	4144 120 0601	4144 120 0604	4241 007 1700	7010 871 0205
	CIM-207	4144 120 0603		4241 007 1700	7010 871 0205
	CIM-S208	4144 120 0604		4241 007 1700	7010 871 0205
	CIM-S226	4144 120 0605		4241 007 1700	
FS 44	WT-160	4130 120 0601	NLA	4130 007 1060	0000 007 1072
	WT-492	4130 120 0603	NLA	4130 007 1060	0000 007 1072
	WT-327	4130 120 0602	NLA	N/A	0000 007 1072
FS 45	CIQ-S44	4140 120 0600	4140 120 0610	4227 007 1060	0000 007 1085
	CIQ-S53	4140 120 0601	4140 120 0610	4227 007 1060	0000 007 1089
	CIQ-S58	4140 120 0610		4227 007 1060	0000 007 1091
	CIQ-S66	4140 120 0603	4140 120 0619	1129 007 1062	0000 007 1094
	CIQ-S71	4140 120 0606	4140 120 0619	0000 007 1039	0000 007 1039
	CIQ-S97	4140 120 0612	4140 120 0619	0000 007 1039	0000 007 1039
	CIQ-S153	4140 120 0616	4140 120 0619	0000 007 1039	7010 871 0222
	CIQ-S186	4140 120 0619		0000 007 1039	7010 871 0222
FS 46	CIQ-S44	4140 120 0600	4140 120 0610	4227 007 1060	0000 007 1085
	CIQ-S53	4140 120 0601	4140 120 0610	4227 007 1060	0000 007 1089
	CIQ-S58	4140 120 0610		4227 007 1060	0000 007 1091
	CIQ-S66	4140 120 0603	4140 120 0619	1129 007 1062	0000 007 1094
	CIQ-S71	4140 120 0606	4140 120 0619	0000 007 1039	0000 007 1039
	CIQ-S97	4140 120 0612	4140 120 0619	0000 007 1039	0000 007 1039

Carburetor Reference Charts & Kits

Model Number	Carb Model	Carb Number	Substitute	IPL Repair Kit	Vendor Repair Kit
FS 46	C1Q-S153	4140 120 0616	4140 120 0619	0000 007 1039	7010 871 0222
	C1Q-S186	4140 120 0619		0000 007 1039	7010 871 0222
FS 48	WT-45	4126 120 0600	NLA	N/A	0000 007 1065
	WT-112	4132 120 0600	NLA	4117 007 1061	0000 007 1065
FS 51	WT-38	4117 120 0605	NLA	N/A	0000 007 1065
	Teiki	4118 120 0600	NLA	N/A	
FS 50 (OLD)	WT-38	4117 120 0605	NLA	N/A	0000 007 1065
	Teikei	4118 120 0600	NLA	N/A	
FS 50 / 50 C	C1M-S145	4144 120 0600	4144 120 0603	4241 007 1700	7010 871 0205
	C1M-S146	4144 120 0601	4144 120 0604	4241 007 1700	7010 871 0205
	C1M-S267	4144 120 0608		4241 007 1700	
	C1M-S207	4144 120 0603		4241 007 1700	7010 871 0205
	C1M-S208	4144 120 0604		4241 007 1700	7010 871 0205
FS 52	WT-45	4126 120 0600	NLA	N/A	0000 007 1065
	WT-112	4132 120 0600	NLA	4117 007 1061	0000 007 1065
FS 55	C1Q-S44	4140 120 0600	4140 120 0610	4227 007 1060	0000 007 1085
	C1Q-S53	4140 120 0601	4140 120 0610	4227 007 1060	0000 007 1089
FS 55	C1Q-S58	4140 120 0610		4227 007 1060	0000 007 1091
	C1Q-S66	4140 120 0603	4140 120 0619	1129 007 1062	0000 007 1094
	C1Q-S71	4140 120 0606	4140 120 0619	0000 007 1039	0000 007 1039
	C1Q-S97	4140 120 0612	4140 120 0619	0000 007 1039	0000 007 1039
	C1Q-S153	4140 120 0616	4140 120 0619	0000 007 1039	7010 871 0222
	C1Q-S186	4140 120 0619		0000 007 1039	7010 871 0222
FS 56 (OLD)	WT-45	4126 120 0600	NLA	N/A	0000 007 1065
	WT-112	4132 120 0600	NLA	4117 007 1061	0000 007 1065
FS 56 / 56 C	C1M-S145	4144 120 0600	4144 120 0603	4241 007 1700	7010 871 0205
	C1M-S146	4144 120 0601	4144 120 0604	4241 007 1700	7010 871 0205
	C1M-S207	4144 120 0603		4241 007 1700	7010 871 0205
	C1M-S208	4144 120 0604		4241 007 1700	7010 871 0205
	C1M-S267	4144 120 0608		4241 007 1700	
FS 60	Teikei	4114 120 0610	NLA	N/A	
FS 61	WT-38	4117 120 0605	NLA	N/A	0000 007 1065
	Teikei	4114 120 0610	NLA	N/A	
FS 62	WT-112	4132 120 0600	NLA	N/A	0000 007 1065
	WT-45	4126 120 0600	NLA	N/A	0000 007 1065
FS 65	WT-38	4117 120 0605	NLA	N/A	0000 007 1065
	Teikei	4114 120 0610	NLA	N/A	N/A
FS 66	WT-112	4132 120 0600	NLA	N/A	0000 007 1065
	WT-45	4126 120 0600	NLA	N/A	0000 007 1065
FS 70	C1M-S145	4144 120 0600	4144 120 0603	4241 007 1700	7010 871 0205
	C1M-S146	4144 120 0601	4144 120 0604	4241 007 1700	7010 871 0205
	C1M-207	4144 120 0603		4241 007 1700	7010 871 0205
	C1M-S208	4144 120 0604		4241 007 1700	7010 871 0205
	C1M-S226	4144 120 0605		4241 007 1700	
FS 72	WT-227	4133 120 0600	NLA	4133 007 1060	0000 007 1073
	WT-329	4226 120 0601	NLA	4133 007 1060	0000 007 1073

Carburetor Reference Charts & Kits

Model Number	Carb Model	Carb Number	Substitute	IPL Repair Kit	Vendor Repair Kit
FS 74	WT-227	4133 120 0600	NLA	4133 007 1060	0000 007 1073
	WT-329	4226 120 0601	NLA	4133 007 1060	0000 007 1073
FS 75	WT-447	4137 120 0601	4137 120 0600	4133 007 1060	0000 007 1073
	C1Q-S28	4137 120 0600		4227 007 1060	0000 007 1085
	C1Q-S41	4137 120 0602		4227 007 1060	0000 007 1085
	C1Q-S45	4137 120 0603	4137 120 0604	4227 007 1060	0000 007 1085
	C1Q-S56	4137 120 0604		4227 007 1060	0000 007 1089
	C1Q-S63	4137 120 0606	4137 120 0628	0000 007 1039	0000 007 1094
	C1Q-S69	4137 120 0608	4137 120 0628	4140 007 1060	0000 007 1039
	C1Q-S157	4137 120 0614		4140 007 1060 subs to 4137 120 0628	0000 007 1039
	C1Q-S4137/28	4137 120 0628		4229 007 1060	
FS 76	WT-227	4133 120 0600	NLA	4133 007 1060	0000 007 1073
	WT-329	4226 120 0601	NLA	4133 007 1060	0000 007 1073
FS 80 (OLD)	Teikei	4112 120 0611	NLA	N/A	N/A
FS 80	WT-447	4137 120 0601	4137 120 0600	4133 007 1060	0000 007 1073
	C1Q-S28	4137 120 0600		4227 007 1060	0000 007 1085
	C1Q-S41	4137 120 0602		4227 007 1060	0000 007 1085
	C1Q-S45	4137 120 0603	4137 120 0604	4227 007 1060	0000 007 1085
	C1Q-S4137/28	4137 120 0628		4229 007 1060	
	C1Q-S56	4137 120 0604		4227 007 1060	0000 007 1089
	C1Q-S63	4137 120 0606	4137 120 0628	1129 007 1062	0000 007 1094
	C1Q-S69	4137 120 0608	4137 120 0628	4140 007 1060	0000 007 1039
FS 81	WT-45	4126 120 0600	NLA	N/A	0000 007 1065
	WT-112	4132 120 0600	NLA	4117 007 1061	0000 007 1065
FS 83 / 83 T	WYA-1	N/A	NLA	4141 007 1003 (DG) 4141 007 1002 (RB)	K20-WYA
	WYA-2	4141 120 0600	NLA	4141 007 1003 (DG) 4141 007 1002 (RB)	K20-WYA
	WYA-2D	4141 120 0601	NLA	4141 007 1003 (DG) 4141 007 1002 (RB)	K20-WYA
FS 85	WT-447	4137 120 0601	4137 120 0600	4133 007 1060	0000 007 1073
	C1Q-S28	4137 120 0600		4227 007 1060	0000 007 1085
	C1Q-S41	4137 120 0602		4227 007 1060	0000 007 1085
	C1Q-S45	4137 120 0603	4137 120 0604	4227 007 1060	0000 007 1085
	C1Q-S56	4137 120 0604		4227 007 1060	0000 007 1089
	C1Q-S63	4137 120 0606	4137 120 0628	1129 007 1062	0000 007 1094
	C1Q-S69	4137 120 0608	4137 120 0628	0000 007 1039	0000 007 1039
	C1Q-S4137/28	4137 120 0628		4229 007 1060	
FS 86	WT-45	4126 120 0600	NLA	N/A	0000 007 1065
	WT-112	4132 120 0600	NLA	4117 007 1061	0000 007 1065
FS 88	WT-45	4126 120 0610	NLA	4117 007 1061	0000 007 1065
	WT-367	4126 120 0611	NLA	4117 007 1061	0000 007 1065
FS 90 (OLD)	WT-38	4117 120 0605	NLA	N/A	0000 007 1065
FS 90	C1Q-S110	4180 120 0604		4180 007 1060	RB-160
	C1Q-S131	4180 120 0608	4180 120 0611	4180 007 1060	RB-165
	C1Q-S174	4180 120 0611		4180 007 1060	RB-165
FS 91 / FS 91 R	C1Q-100345	4180 120 0615		4180 007 1035	RB-287
FS 94 / 94 R	RC2-S243	4149 120 0600		4149 007 1700	7010 871 0246
	4149/02	4149 120 0602			

Carburetor Reference Charts & Kits

Model Number	Carb Model	Carb Number	Substitute	IPL Repair Kit	Vendor Repair Kit
FS 96	WT-38	4117 120 0605	NLA	N/A	0000 007 1065
FS 100	CIQ-S72	4180 120 0600		4180 007 1060	0000 007 1041
	CIQ-S81	4180 120 0602	4180 120 0604	4180 007 1060	0000 007 1041
	CIQ-S88	4180 120 0603	4180 120 0604	4180 007 1060	0000 007 1041
	CIQ-S131	4180 120 0608	4180 120 0611	4180 007 1060	RB-165
	CIQ-S174	4180 120 0611		4180 007 1060	RB-165
FS 106	WT-45	4126 120 0610	NLA	4117 007 1061	0000 007 1065
	WT-112	4132 120 0600	NLA	4117 007 1061	0000 007 1065
	CIQ-SK5	4135 120 0600	NLA	4134 007 1060	0000 007 1078
FS 108	CIQ-SK7	4135 120 0601	NLA	4132 007 1061	0000 007 1078
FS 110	CIQ-S72	4180 120 0600		4180 007 1060	0000 007 1041
	CIQ-S81	4180 120 0602	4180 120 0604	4180 007 1060	0000 007 1041
	CIQ-S88	4180 120 0603	4180 120 0604	4180 007 1060	0000 007 1041
	CIQ-S131	4180 120 0608	4180 120 0611	4180 007 1060	RB-165
	CIQ-S174	4180 120 0611		4180 007 1060	RB-165
FS 111	CIQ-100345	4180 120 0615		4180 007 1035	RB-287
FS 120	CIQ-S35	4134 120 0600	4134 120 0651	4134 007 1060	0000 007 1078
	CIQ-S36	4134 120 0601	4134 120 0851	4134 004 1060	0000 007 1078
	CIQ-S51	4134 120 0651		4134 007 1060	0000 007 1078
	CIQ-S161	4134 120 0652		4128 007 1060	
FS 130	CIQ-S98	4180 120 0601		4180 007 1061	RB-162
	CIQ-S130	4180 120 0607	4180 120 0610	4180 007 1061	RB-162
	CIQ-S176	4180 120 0610		4180 007 1061	RB-162
	CIQ-S114	4180 120 0605		4180 007 1061	
FS 131	CIQ-100344	4180 120 0614	4180 120 0617	4180 007 1035	RB-288
	4180/17	4180 120 0617		4180 007 1035	Z010 001 K018
FS 150	HDC-17	1116 120 0600	NLA	N/A	0000 007 1067
FS 160	CIS-S2	4119 120 0601	4119 120 0602	1120 007 1061	0000 007 1082
	CIS-S3	4119 120 0602		4119 007 1061	0000 007 1039
FS 180	CIS-S2	4119 120 0601	4119 120 0602	1120 007 1061	0000 007 1039
	CIS-S3	4119 120 0602		4119 007 1061	0000 007 1039
FS 200 (1114)	HU-7A	1114 120 0600	NLA	N/A	0000 007 1052
FS 200	CIQ-S35	4134 120 0600	4134 120 0651	4134 007 1060	0000 007 1078
	CIQ-S36	4134 120 0601	4134 120 0651	4134 007 1060	0000 007 1078
	CIQ-S51	4134 120 0651		4134 007 1060	0000 007 1078
FS 220	WT-51	4119 120 0601	4119 120 0602	N/A	0000 007 1065
	WT-70	4119 120 0604	NLA	N/A	0000 007 1065
	CIS-S2	4119 120 0601	4119 120 0602	1120 007 1061	0000 007 1039
	CIS-S3	4119 120 0602		4119 007 1060	0000 007 1039
FS 240	WTF-10	4147 120 0605	4147 120 0625	4147 007 1700	7010 871 0226
	4147/25	4147 120 0625		4147 007 1702	
FS 250	CIQ-S35	4134 120 0600	4134 120 0651	4134 007 1060	0000 007 1078
	CIQ-S51	4134 120 0651		4134 007 1060	0000 007 1078
	CIQ-S36	4134 120 0601	4134 120 0651	4134 007 1060	0000 007 1078
	CIQ-S-162	4134 120 0653		1129 007 1062 4128 007 1060	T1.16.2009
FS 280	CIS-S2	4119 120 0601	4119 120 0602	1120 007 1061	0000 007 1039
	CIS-S3	4119 120 0602		4119 007 1060	0000 007 1039

Carburetor Reference Charts & Kits

Model Number	Carb Model	Carb Number	Substitute	IPL Repair Kit	Vendor Repair Kit
FS 280	WT-223	4119 120 0601	4119 120 0602	1120 007 1061	0000 007 1039
FS 310	C1Q-98	4180 120 0601		4180 007 1061	
	C1Q-S130	4180 120 0607	4180 120 0610	4180 007 1061	
	C1Q-S133	4180 120 0606	4180 120 0613	4180 007 1061	
	C1Q-S176	4180 120 0613		4180 007 1061	
FS 311	C1Q-100344	4180 120 0614	4180 120 0617	4180 007 1035	
FS 350	C1Q-S35	4134 120 0600	4134 120 0651	4134 007 1060	0000 007 1078
	C1Q-S36	4134 120 0601	4134 120 0651	4134 007 1060	0000 007 1078
	C1Q-S51	4134 120 0651		4134 007 1060	0000 007 1078
FS 360 (OLD)	HD-1	4116 120 0600	4116 120 0601	N/A	0000 007 1071
	HD-3	4116 120 0601		4116 007 1061	0000 007 1071
FS 360 C-E	WTF - 5	4147 120 0600		4147 007 1700	7010 871 0226
	WTF-10	4147 120 0605	4147 120 0625	4147 007 1700	7010 871 0226
	4147/25	4147 120 0625		4147 007 1702	
	4147/22	4147 120 0622		4147 007 1701	
FS 410 (OLD)	HS-138	1110 120 0609	NLA	N/A	0000 007 1059
FS 410	WTF-6	4147 120 0600		4147 007 1700	
FS 420	HD-3	4116 120 0601		4116 007 1061	0000 007 1071
FS 400	C1Q-S33	4128 120 0601	4128 120 0651	4134 007 1060	0000 007 1078
	C1Q-S94	4128 120 0603	4128 120 0607	1129 007 1062	0000 007 1094
	C1Q-S34	4128 120 0651		4134 007 1060	0000 007 1078
FS 450	C1Q-S33	4128 120 0601	4128 120 0651	4134 007 1060	0000 007 1078
	C1Q-S94	4128 120 0603	4128 120 0607	1129 007 1062	0000 007 1094
	C1Q-S34	4128 120 0651		4134 007 1060	0000 007 1078
FS 460 C-EM	WTF - 7	4147 120 0603		4147 007 1700	7010 871 0226
	WTF-12	4147 120 0608		4147 007 1700	7010 871 0226
FS 550	HD-22	4116 120 0603		4116 007 1061	0000 007 1071
	HD-23	4116 120 0602		4116 007 1061	0000 007 1071
	HD-31	4116 120 0606		4116 007 1061	0000 007 1071
FS 560 C-EM	HDA-302	4148 120 0601	4148 120 0602	4148 007 1700	7010 871 0233
	HDA-311	4148 120 0602		4148 007 1700	7010 871 0233
STIHL PowerSweep™					
KW 85	C1Q-S45	4137 120 0603	4137 120 0604	4227 007 1060	0000 007 1085
	C1Q-S56	4137 120 0604		4227 007 1060	0000 007 1089
	C1Q-S63	4137 120 0606	4137 120 0628	1129 007 1062	0000 007 1094
	C1Q-S69	4137 120 0608	4137 120 0628	0000 007 1039	0000 007 1039
	C1Q-S157	4137 120 0614	4137 120 0628	0000 007 1039	0000 007 1039
Pole Pruners					
HT 56	C1M-S145	4144 120 0600	4144 120 0603	4241 007 1700	7010 871 0205
	C1M-S226	4144 120 0605		4241 007 1700	
	C1M-S207	4144 120 0603		4241 007 1700	
	C1M-S267	4144 120 0608		4241 007 1700	
HT 73	WYA-1	N/A		"4141 007 1003 (DG) 4141 007 1002 (RB)"	K20-WYA
	WYA-2	4141 120 0600	NLA	"4141 007 1003 (DG) 4141 007 1002 (RB)"	K20-WYA
	WYA-2D	4141 120 0601	NLA	"4141 007 1003 (DG) 4141 007 1002 (RB)"	K20-WYA

Carburetor Reference Charts & Kits

Model Number	Carb Model	Carb Number	Substitute	IPL Repair Kit	Vendor Repair Kit
HT 70 / 75	CIQ-S28	4137 120 0600		4227 007 1060	0000 007 1085
	CIQ-S41	4137 120 0602		4227 007 1060	0000 007 1089
	CIQ-S45	4137 120 0603	4137 120 0604	4227 007 1060	0000 007 1085
	CIQ-S56	4137 120 0604		4227 007 1060	0000 007 1089
	CIQ-S63	4137 120 0606	4137 120 0628	1129 007 1062	0000 007 1094
	CIQ-S69	4137 120 0608	4137 120 0628	0000 007 1039	0000 007 1039
	CIQ-S157	4137 120 0614	4137 120 0628	0000 007 1039	0000 007 1039
HT 100 / 101	CIQ-S131	4180 120 0608	4180 120 0611	4180 007 1060	
	CIQ-S110	4180 120 0604		4180 007 1060	
	CIQ-S88	4180 120 0603	4180 120 0604	4180 007 1060	0000 007 1041
HT 102 / 103	4180/15	4180 120 0615		4180 007 1035	
	CIQ-S130	4180 120 0607	4180 120 0610	4180 007 1061	
	CIQ-98	4180 120 0601		4180 007 1061	
	CIQ-S176	4180 120 0610		4180 007 1061	
HT 250	CIQ-S83	4134 120 0604	4134 120 0653	1129 007 1062	
	CIQ-S162	4134 120 0653		4128 007 1060	
	4134/18	4134 120 0618	4134 120 0627	4128 007 1060	
HT 131	4180/14	4180 120 0614	4180 120 0617	4180 007 1035	
HT 132 / 133	4180/14	4180 120 0614	4180 120 0617	4180 007 1035	
KM 55	CIQ-S66	4140 120 0603	4140 120 0619	1129 007 1062	0000 007 1094
	CIQ-S71	4140 120 0606	4140 120 0619	0000 007 1039	0000 007 1039
	CIQ-S97	4140 120 0612	4140 120 0619	0000 007 1039	0000 007 1039
	CIQ-S153	4140 120 0616	4140 120 0619	0000 007 1039	7010 871 0222
	CIQ-S186	4140 120 0619		0000 007 1039	7010 871 0222
KM 56	CIM-S145	4144 120 0600	4144 120 0603	4241 007 1002	7010 871 0205
	CIM-S146	4144 120 0601	4144 120 0604	4241 007 1002	7010 871 0205
KM 85	CIQ-S69	4137 120 0608	4137 120 0628	4229 007 1060	0000 007 1039
	CIQ-S63	4137 120 0606	4137 120 0628	1129 007 1060	0000 007 1094
	CIQ-S157	4137 120 0614	4137 120 0628	0000 007 1039	0000 007 1039
KM 90	CIQ-S110	4180 120 0604		4180 007 1060	
	CIQ-S131	4180 120 0608	4180 120 0611	4180 007 1060	
	CIQ-S174	4180 120 0611		4180 007 1060	
KM 91	CIQ-100345	4180 120 0615		4180 007 1035	
KM 94	RC2-S243	4149 120 0600		4149 007 1700	7010 871 0246
	4149/02	4149 120 0602		4149 007 1701	
KM 110	CIQ-S72	4180 120 0600		4180 007 1060	0000 007 1041
	CIQ-S81	4180 120 0602	4180 120 0604	4180 007 1060	0000 007 1041
	CIQ-S88	4180 120 0603	4180 120 0604	4180 007 1060	0000 007 1041
	CIQ-S110	4180 120 0604		4180 007 1060	
	CIQ-S131	4180 120 0608	4180 120 0611	4180 007 1060	
	CIQ-S174	4180 120 0611		4180 007 1060	
KM 111	CIQ-100345	4180 120 0615		4180 007 1035	
KM 130	CIQ-S98	4180 120 0601		4180 007 1061	
	CIQ-S130	4180 120 0607	4180 120 0610	4180 007 1061	
	CIQ-S176	4180 120 0610		4180 007 1061	
KM 131	CIQ-100344	4180 120 0614	4180 120 0617	4180 007 1035	

Carburetor Reference Charts & Kits

Model Number	Carb Model	Carb Number	Substitute	IPL Repair Kit	Vendor Repair Kit
Edgers & Bed Redefiner					
FC 44	WT-160	4130 120 0601	NLA	4130 007 1060	0000 007 1072
	WT-492	4130 120 0603	NLA	4130 007 1060	0000 007 1072
	WT-327	4130 120 0602	NLA	1123 007 1061	0000 007 1072
FC 55	CIQ-S44	4140 120 0600	4140 120 0610	4227 007 1060	0000 007 1085
	CIQ-S53	4140 120 0601	4140 120 0610	4227 007 1060	0000 007 1089
	CIQ-S58	4140 120 0610		4227 007 1060	0000 007 1091
	CIQ-S66	4140 120 0603	4140 120 0619	1129 007 1062	0000 007 1094
	CIQ-S71	4140 120 0606	4140 120 0619	0000 007 1039	0000 007 1039
	CIQ-S97	4140 120 0612	4140 120 0619	0000 007 1039	0000 007 1039
	CIQ-S186	4140 120 0619		0000 007 1039	7010 871 0222
FC 56	CIM-S145B	4144 120 0600	4144 120 0603	4241 007 1002	7010 871 0205
	CIM-S146	4144 120 0601	4144 120 0604	4241 007 1002	7010 871 0205
	CIM-207	4144 120 0603		4241 007 1002	7010 871 0205
	CIM-208	4144 120 0604		4241 007 1002	7010 871 0205
	CMI-S226	4144 120 0605		4241 007 1700	
FC 70	CIM-S145	4144 120 0600	4140 120 0603	4241 007 1002	7010 871 0205
	CIM-S146	4144 120 0601	4144 120 0604	4241 007 1002	7010 871 0205
	CIM-207	4144 120 0603		4241 007 1002	7010 871 0205
	CIM-S208	4144 120 0604		4241 007 1002	7010 871 0205
	CMI-S267	4144 120 0608		4241 007 1700	
FC 72	WT-227	4133 120 0600	NLA	4133 007 1060	0000 007 1073
	WT-329	4226 120 0601	NLA	4133 007 1060	0000 007 1073
FC 73	WYA-1	N/A	NLA	4141 007 1003 (DG) 4141 007 1002 (RB)	K20-WYA
	WYA-2	4141 120 0600	NLA	4141 007 1009 (DG) 4141 007 1002 (RB)	K20-WYA
	WYA-2D	4141 120 0601	NLA	4141 007 1003 (DG) 4141 007 1002 (RB)	K20-WYA
FC 75	CIQ-S28	4137 120 0600		4227 007 1060	0000 007 1085
	CIQ-S41	4137 120 0602		4227 007 1060	0000 007 1085
	CIQ-S45	4137 120 0603	4137 120 0604	4227 007 1060	0000 007 1085
	CIQ-S56	4137 120 0604		4227 007 1060	0000 007 1089
	CIQ-S63	4137 120 0606	4137 120 0628	1129 007 1062	0000 007 1094
	WT-447	4137 120 0601	4137 120 0600	4133 007 1060	0000 007 1073
FC 83	WY-A1	4141 120 0601	NLA	4141 007 1002	
FC 85	CIQ-S45	4137 120 0603	4137 120 0604	4227 007 1060	0000 007 1085
	CIQ-S56	4137 120 0604		4227 007 1060	0000 007 1089
	CIQ-S63	4137 120 0606	4137 120 0628	1129 007 1062	0000 007 1094
	CIQ-S69	4137 120 0608		0000 007 1039	0000 007 1039
	CIQ-S4137/28	4137 120 0628	4137 120 0628	4229 007 1060	
FC 90	CIQ-S110C	4180 120 0604		4180 007 1060	0000 007 1041
	CIQ-S131B	4180 120 0608	4180 120 0611	4180 007 1060	0000 007 1041
FC 91 / 96 / FC 111	CIQ-100345	4180 120 0615		4180 007 1035	
FC 95	CIQ-S110C	4180 120 0604		4180 007 1060	0000 007 1041
	CIQ-S131B	4180 120 0608	4180 120 0611	4180 007 1060	0000 007 1041
FC 110	CIQ-S72	4180 120 0600		4180 007 1060	0000 007 1041
	CIQ-S81	4180 120 0602	4180 120 0604	4180 007 1060	0000 007 1041
	CIQ-S131B	4180 120 0608	4180 120 0611	4180 007 1060	0000 007 1041
FB 131	CIQ-100344	4180 120 0614	4180 120 0617	4180 007 1035	

Carburetor Reference Charts & Kits

Model Number	Carb Model	Carb Number	Substitute	IPL Repair Kit	Vendor Repair Kit
STIHL Cutquik® Cut-Off Machines					
GS 461	HD-50	1128 120 0629		1128 007 1066 - NLA	0000 007 1074
TS 08	HL-166	1108 120 0601	NLA	1106 007 1061	0000 007 1057
	HL-292	1108 120 0604	NLA	1106 007 1061	0000 007 1057
TS 50	HS-212	4205 120 0600		1115 007 1060	0000 007 1059
TS 200	HU-7A	1114 120 0600	NLA	N/A	0000 007 1052
TS 350	HL-292	1108 120 0604	NLA	1106 007 1061	0000 007 1057
	HL-371	4201 120 0610		4201 007 1060	0000 007 1057
	HL-372	4201 120 0611		4201 007 1060	0000 007 1057
TS 350 AV	HL-327	4201 120 0601	4308 120 0600	4201 007 1060	0000 007 1057
	LA-S168	4308 120 0600		4201 007 1060	0000 007 1084
TS 360	HL-327	4201 120 0601	4308 120 0600	4201 007 1060	0000 007 1057
	LA-S168	4308 120 0600		4201 007 1060	0000 007 1084
TS 400	HS-274	4223 120 0600	4223 120 0652	1124 007 1060	0000 007 1061
	HS-279	4223 120 0650	4223 120 0652	1124 007 1060	0000 007 1061
	WJ-108	4223 120 0652		1122 007 1060	0000 007 1066
TS 410 / 420	CIQ-S118	4238 120 0600	4238 120 0603	4238 007 1060	4238 007 1061
	4238/03	4238 120 0603		4238 007 1060	4238 007 1061
TS 440	CIQ-S118	4238 120 0600	4238 120 0603	4238 007 1060	4238 007 1061
	4238/03	4238 120 0603		4238 007 1060	4238 007 1061
TS 460	HS-276	4221 120 0650	4221 120 0651	1124 007 1060	0000 007 1061
	HS-275	4221 120 0651		1124 120 1060	0000 007 1061
TS 510	HS-277	4205 120 0601		1115 007 1060	0000 007 1062
	HS-280	4205 120 0602		1115 007 1060	0000 007 1062
	HS-281	4205 120 0603		1115 007 1060	0000 007 1062
	HS-212	4205 120 0600		1115 007 1060	0000 007 1059
TS 700 / 800	HS-314	4224 120 0600	4224 120 0651	4224 007 1008	
	WJ-114	4224 120 0601		1122 007 1060	0000 007 1066
TS 760	HS-212	4205 120 0600	NLA	1115 007 1060	0000 007 1059
	HS-277	4205 120 0601		1115 007 1060	0000 007 1059
	HS-280	4205 120 0602		1115 007 1060	0000 007 1062
	HS-281	4205 120 0603		1115 007 1060	0000 007 1062
Augers and Drills					
BT 45	CIQ-S74/A/B/D	4314 120 0600	4314 120 0601	4314 007 1052	
BT 106	SK5	4135 120 0602	NLA	N/A	
	CIQ-SK5	4135 120 0600	NLA	4132 007 1061	0000 007 1078
BT 120	CIQ-S36	4134 120 0601	4134 120 0651	4134 007 1060	0000 007 1078
	CIQ-S51	4134 120 0651		4134 007 1060	0000 007 1078
	CIQ-S82	4134 120 0603	NLA	1129 007 1062	0000 007 1088
	CIQ-S161	4134 120 0652		4128 007 1060	7010 871 0228
BT 121	CIQ-S82	4134 120 0603	NLA	1129 007 1062	0000 007 1088
	CIQ-S161	4134 120 0652		4128 007 1060	7010 871 0228
BT 130	CIQ-S176	4180 120 0610		4180 007 1061	
BT 131	CIQ-100344	4180 120 0614	4180 120 0617	4180 007 1035	
BT 360	HL-327	4201 120 0601	4308120 0600	4201 007 1060	0000 007 1057
	LA-S168	4308 120 0600		4201 007 1060	0000 007 1084

Carburetor Reference Charts & Kits

Carburetor Jets

Jet Size MM	Jet Part Number
.26	4229 121 5604
.32	4180 121 5600
.34	4137 121 5603
.35	4229 121 5602
.36	4229 121 5601
.37	4229 121 5603
.38	4237 121 5600
.39	4228 121 5602
.40	1132 121 5640
.41	4137 121 5600
.42	1123 121 5642
.42	4137 121 5601
.43	4228 121 5600
.44	1123 121 5653
.44	1130 121 5601
.45	1130 121 5604
.46	1123 121 5631
.49	1130 121 5605
.50	1129 121 5600
.52	1121 121 5602
.52	1132 121 5604
.54	1130 121 5600
.55	1123 121 5625
.56	1120 121 5600
.58	1127 121 5602
.60	1122 121 5608
.62	1122 121 5603
.65	1122 121 5606

Short Blocks

Part Number	Series/Unit
4180 020 0200	FS 110/100 RX, KM 110, HT 101, HL 100, FC 100, FC 110, HT 100
4180 020 0201	HT 130, FS 130, KM 130, HT 131, FS 310
4180 020 0202	FS 90, FC 90, FC 95, KM 90, HL 90
4180 020 0203	FS 111, HT 103, HT 102, KM 111, FC 111
4180 020 0204	FC 91, FS 91, FC 96, KM 91
4180 020 0205	FS 131/311, HT 133, FB 131, KM 131, HT 132, BT 131
4244 020 0204	BR 350, 430 SR 430, 450
4244 020 0206	BR 450
4282 020 0201	BR 500/550/600/700
4283 020 0200	BR 800



RETAILER LABOR RATE CERTIFICATE



Account #: _____

Retailer Name: _____

Address: _____

Phone Number: _____

My Distributor is: 

I hereby certify that my posted retail shop labor rate is \$_____ per hour and that this is the true and correct rate that I charge all retail customers and is reflected on my invoices.

**Included are copies of two (2) verifiable shop invoices
for non-warranty work performed on STIHL products.**

Print Name: _____

Email Address: _____

Date: _____

Please email, fax, or mail this information
to:



Email: MargieG@bryanequipment.com

Fax: (877) 756-4676

6300 Smith Road, Loveland, Ohio 45140

New STIHL part numbers with alphanumeric characters

Contents

1. Explanation
2. New STIHL part numbering system

1. Explanation

Part numbers of new STIHL products will have alphanumeric characters in the first and second places from now on.

Previous STIHL part numbers:	New STIHL part numbers:
e.g.: 1142 011 3001	e.g.: MB 01 120 0600

The first place of the new STIHL part numbers indicates the product type and the second place denotes the drive type,  2.

All the other places and the total number of places remain the same.

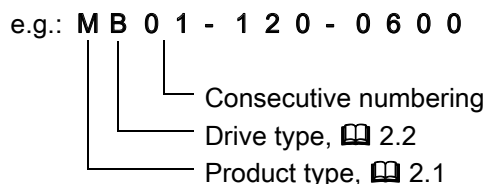
Existing part numbers will not change.

The part numbering system remains as before for the following products:

- Saw chains
- Guide bars
- Forestry technology
- Special tools
- Standardized parts
- Advertising articles
- Technical Information products

Frequently Asked Questions

2. New STIHL part numbering system



2.1 First place of new STIHL part numbers

The first place of the new part numbers indicates the product type:

- B = Blowers (BG, BGA, BGE, BR)
- C = Digital products (GCI)
- E = Accessories for cordless products (AK, AL, AP, AR)
- F = Clearing saws, brushcutters (FS, FSA, FSE),
Backpack brushcutters (FR),
Lawn edgers (FC), cultivators (BC),
Power Scythe (FH),
KombiEngines (KM),
Kombi built-on engines (KA),
PowerSweeps (KW)
- H = Hedge trimmers (HS, HSA, HSE),
Long-reach hedge trimmers (HL, HLA, HLE)
- K = Sweepers (KG, KGA)
- L = Pole pruners (HT, HTA, HTE)
- M = Chain saws (MS, MSA, MSE)
- R = Pressure washers (RB, RE)
- S = Mistblowers (SR),
Sprayers (SG),
Vacuum shredders (SH, SHE),
Vacuum cleaners (SE)
- T = Cut-off machines (TS, TSA),
Concrete cutters (GS),
Carts (FW)
- U = Earth augers (BT)
- V = Special-purpose units (FT, SP, SPA),
Palm cutter (PC),
Pruning shears (ASA)
- Y = MultiEngines (MM),
Tillers (BC)
- Z = ZAMA components

2.2 Second place of new STIHL part numbers

The second place of the new part numbers denotes the drive type:

- B = Gasoline engine
- E = Electric drive, corded, 120v powered
- A = Electric drive, battery powered
- M = Manual operation

Frequently Asked Questions

Oil passage leak, fix

STIHL

confidential

- 0000 953 1001 Grub Screw
 - Use to repair chainsaw which has a missing oil bore plug
 - MS 170/180; MS 210/230/250; MS 290/310/390
 - Install grub screw half way into the housing



Oversize Bar Studs

STIHL

confidential

- MS 290/310/390 Bar Mount, polymer housings:
 - Oversize Collar Screw 1127 664 2410 DG 9
- MS 271/291/311/391
 - Oversize collar screw 0000 664 2411
- 3005 Bar Mount, polymer housings:
 - Oversize Collar Screw 1123 664 2405 DG 9
 - MS 170/180, MS 171/181, MS 191, MS192, MS210/230/250, and MS 211/231/251
- MS 193C/193T/194C/194T
 - Oversize collar screw 0000 664 2415



Frequently Asked Questions

Two types of crankcase seals (various models)

STIHL

Use this style seal when
Cylinder / Pan split

Use this style seal when
Cylinder / Pan Not split

■ This side faces
away from the
crankshaft
counterweight

■ This side faces
towards the
crankshaft
counterweight



Spare Part Kits for Rock Boss Chain

STIHL

confidential

Technical Information 05.2014

5. Spare parts

Chain type	Model number			
		Kit Tie straps ¹⁾	Kit Drive links without tang ²⁾	Kit Drive links with tang ³⁾
36 GBM	3210	3210 007 1000	3210 662 1151	3210 662 1150
36 GBE	3211			

Socket + Die Tool Kit - 5805 007 1002

¹⁾ Contains 5 tie straps and 5 preset tie straps

²⁾ Contains 5 drive links without tang

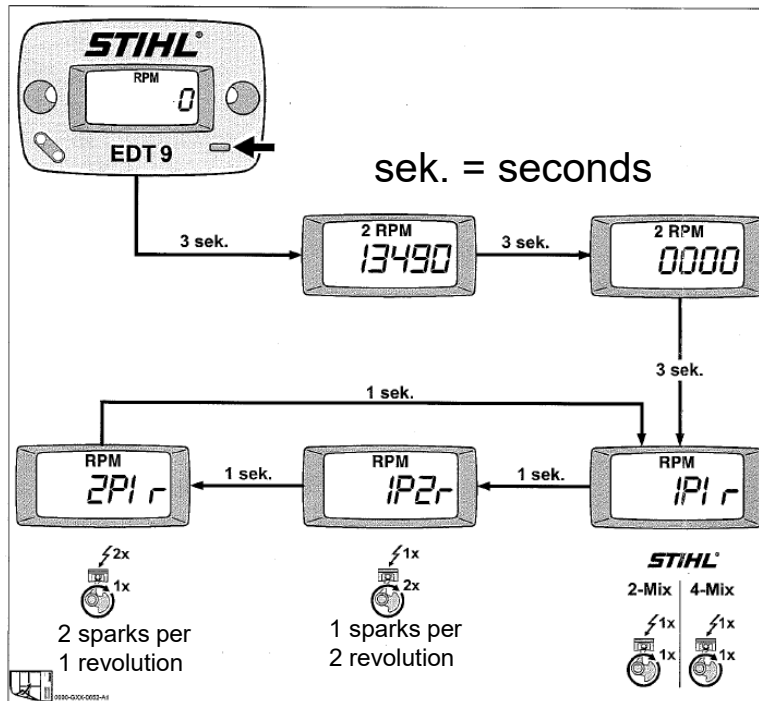
³⁾ Contains 5 drive links with tang

Frequently Asked Questions

EDT 9 Mode Settings Part Number: 5910 850 1100

STIHL

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1P1r means 1 Pulse (spark event) per 1 crankshaft revolution, and is the setting for all STIHL engines

Drive Bits for cordless drill and other tools

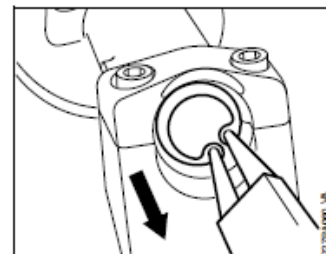
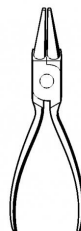
STIHL

confidential

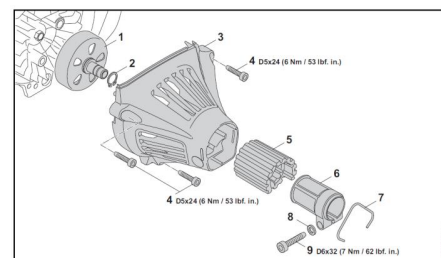
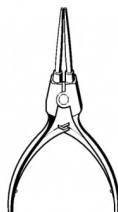
- 0812 540 1016 (T-20)
- 0812 540 1112 (T-27)



- 0816 630 1452



- 0816 610 1495



Frequently Asked Questions

STIHL Carb Service Tools

Part Number: STIHL Carb Tools

STIHL



— 5910 890 4501



— 5910 890 4500



— 5910 890 4502



— 0000 890 2300



— 5910 890 2308



— 5910 890 2306 HEX



— 5910 890 2304 Square



— 5910 890 2314 “8”



— 5910 890 2307 “6”



— 5910 890 2310 Torx T8



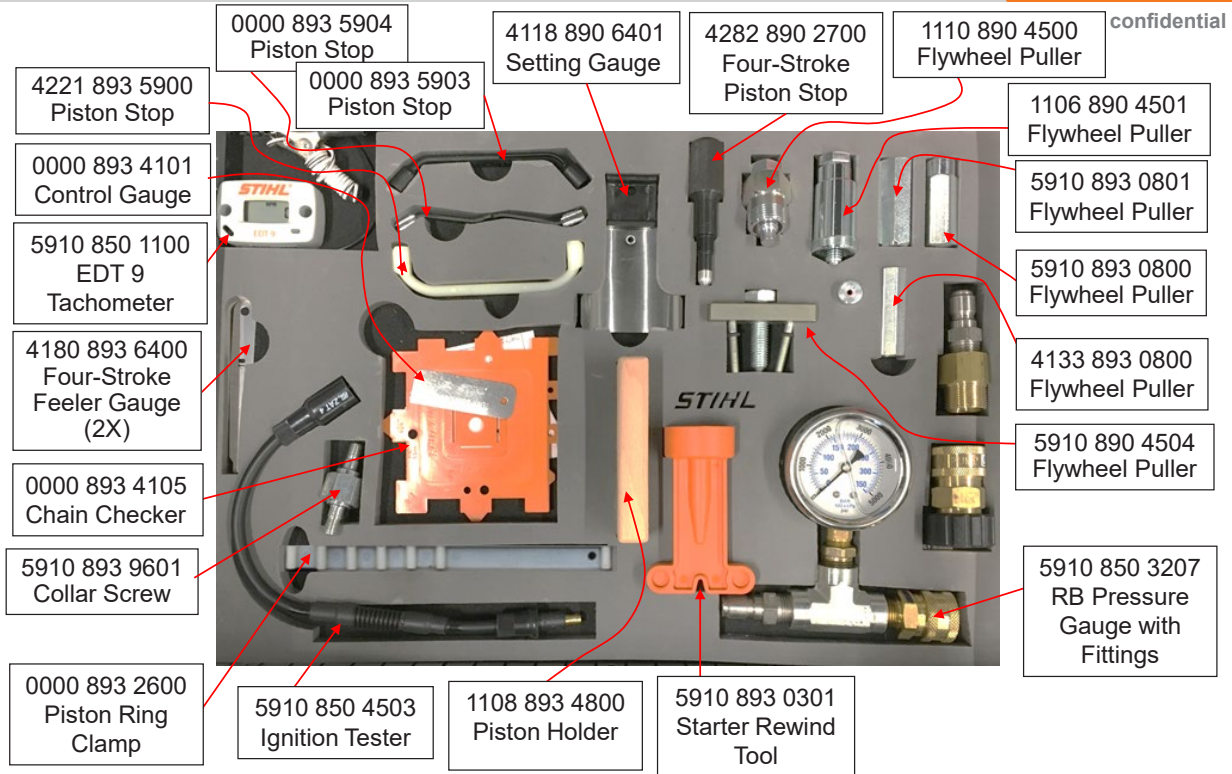
6 sided

8 sided

Frequently Asked Questions

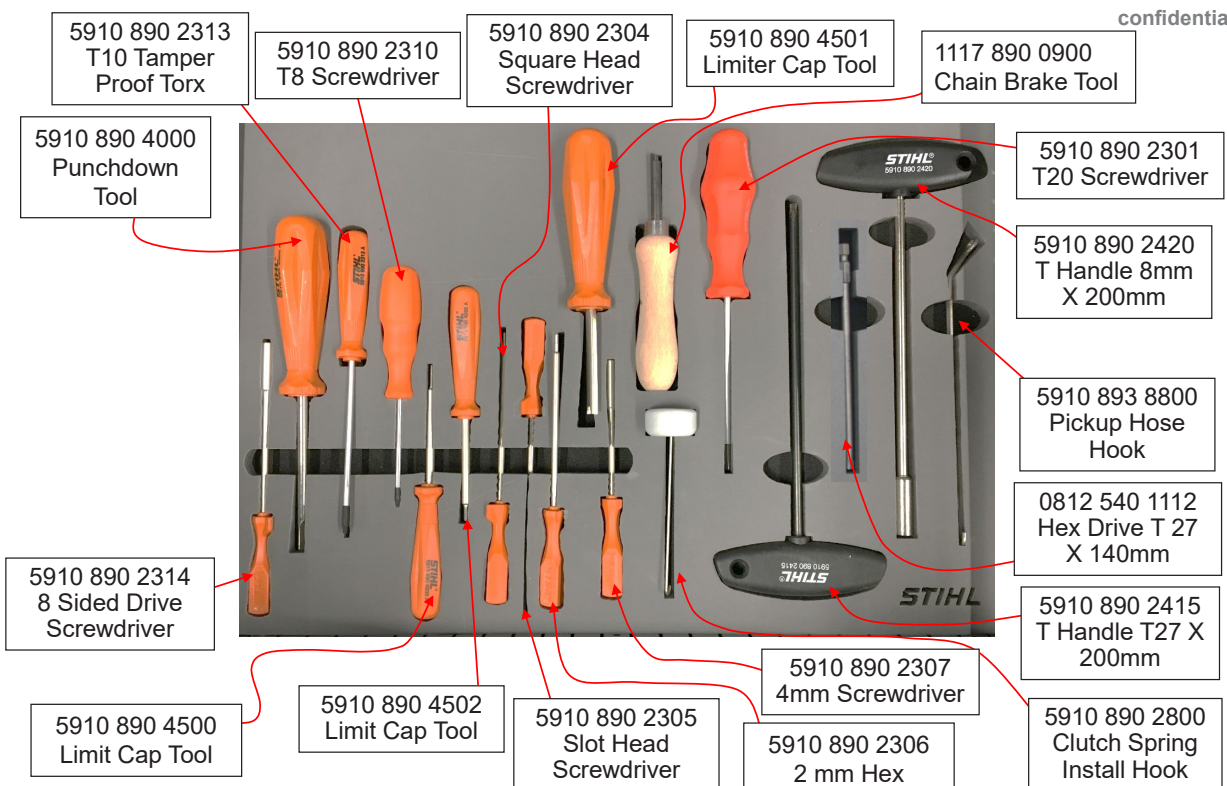
Drawer Layout

STIHL



Drawer Layout

STIHL

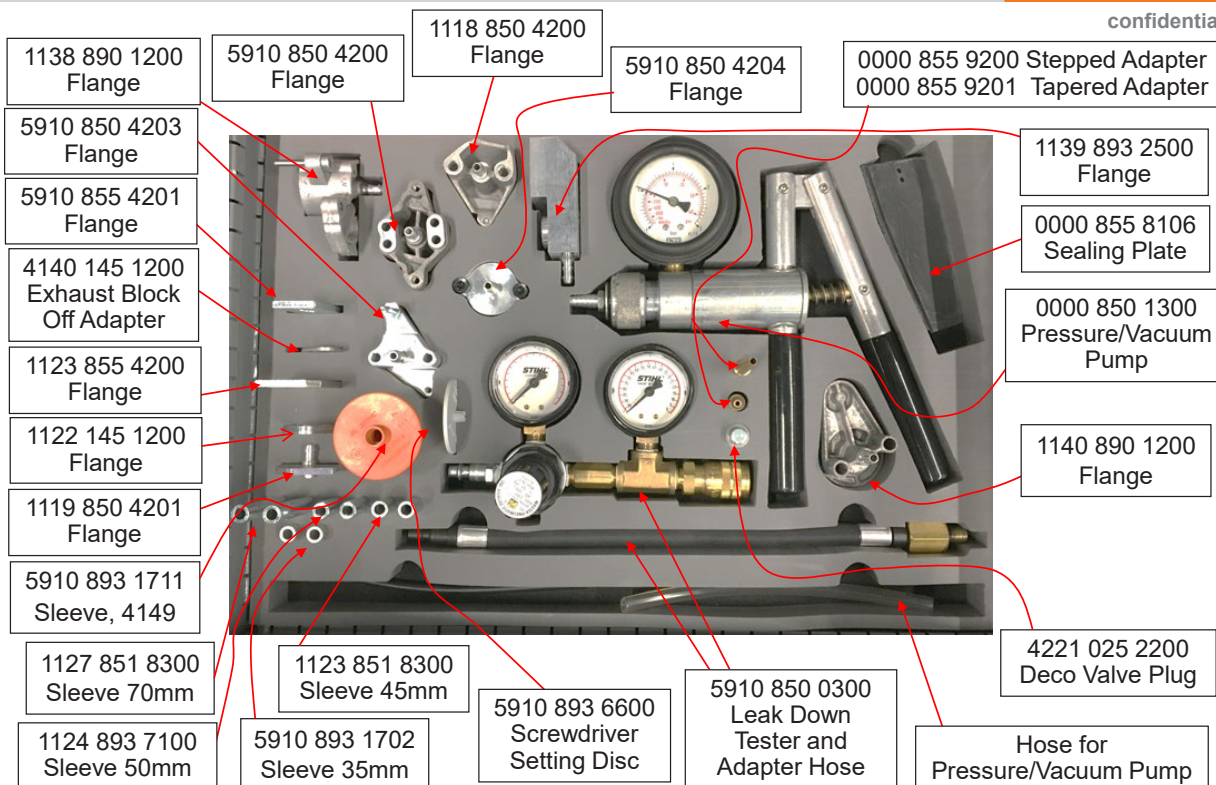


Frequently Asked Questions

Drawer Layout

STIHL

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STIHL Fastener Assortment: Part # 5910 007 1061

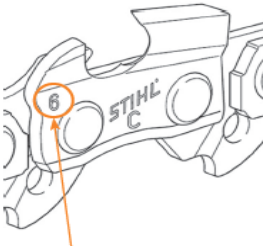
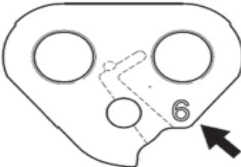
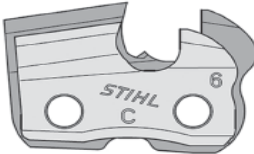
STIHL



Frequently Asked Questions

STIHL Chain Marketing Number System

STIHL

PITCH	GAUGE	CUTTER TYPE	CUTTER SHAPE	SPECIAL																					
3	3	R	M	3																					
 Marked on the cutter. This is the size of the chain. Pitch must match drive sprocket and nose sprocket pitch. <table border="1"><thead><tr><th>Chain Pitch</th><th>Previous Marking</th><th>New Marking</th></tr></thead><tbody><tr><td>1/4"</td><td>1/4</td><td>1</td></tr><tr><td>.325"</td><td>.325</td><td>2</td></tr><tr><td>3/8"</td><td>3/8</td><td>3</td></tr><tr><td>.404"</td><td>.404</td><td>4</td></tr><tr><td>3/8"P</td><td>P, PM</td><td>6</td></tr><tr><td>1/4"P</td><td>---</td><td>7</td></tr></tbody></table>	Chain Pitch	Previous Marking	New Marking	1/4"	1/4	1	.325"	.325	2	3/8"	3/8	3	.404"	.404	4	3/8"P	P, PM	6	1/4"P	---	7	 Marked on the drive link. This is thickness of the drive link. Chain gauge must match bar groove gauge.  1 = .043" (1.1 mm) 3 = .050" (1.3 mm) 5 = .058" (1.5 mm) 6 = .063" (1.6 mm) 0 = .080" (2.0 mm)	 Size of the cutter. Rapid is a full size cutter. Picco has a lower profile. Picco will be marked with P, PM, 6 or 7. P = STIHL PICCO™ R = STIHL RAPID™	 Micro™  Super  Duro Shape of the cutting edge visually identified. Micro - Curved corner Super - Sharp corner Duro - Welded on carbide tooth M = Micro™ (Semi Chisel) S = Super (Full Chisel) D = Duro (Carbide Tip)	 Special Features can be a cutter design, drive link, tie strap or chain construction. 2 = Triple Hump Tie Strap 3 = Single-Humped Drive Link F = Full Skip H = Semi Skip (Half-Skip) or Harvester (i.e. on .404" RMH) K = Classic Cutter design L = Square Ground M = Mini R = Rescue (RDR chain, especially designed for MS460 R STIHL Magnum® Rescue) S = Special
Chain Pitch	Previous Marking	New Marking																							
1/4"	1/4	1																							
.325"	.325	2																							
3/8"	3/8	3																							
.404"	.404	4																							
3/8"P	P, PM	6																							
1/4"P	---	7																							

Frequently Asked Questions

From the STIHLUSA.com FAQ page:

STIHL

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What is the minimum compression for my STIHL chainsaw?

Generally the minimum is 110 lbs. of compression. However, this will vary by model and compression readings alone are not enough to determine the condition of the engine. Compression gauges are not always accurate and different engines will provide different results.

- This question comes up often: What should the compression be for STIHL engines?
- The above statement from the STIHLUSA website is the only place you will ever see a number in writing
- Doing a compression test on a STIHL two-stroke engine is not referred to in any service literature

Compression Tester Adapter Kit & Alcohol Percentage Testing Tool

STIHL



Compression Tester Kit
Tester: 5910 850 2000

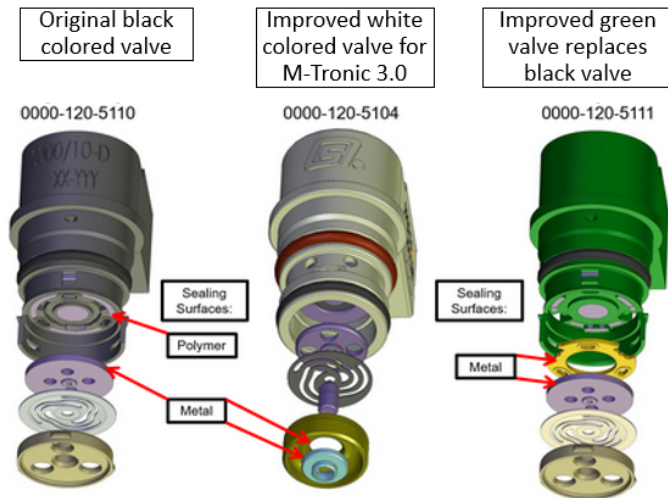


Alcohol Percentage Testing Tool
Part #: 7010 882 6000
See page 81

Frequently Asked Questions

New Green Colored STIHL M-Tronic™ Solenoid Valve

- Original STIHL M-Tronic black solenoid valve, 0000 120 5110 has been replaced with a new green solenoid valve ... 000 120 5111
- Black solenoid valve, 0000 120 5110 will be discontinued.
- In the rare case of a white solenoid, 0000 120 5104 failure replace it with another white solenoid.



Production Change to STIHL M-Tronic™ 3.0

Use Newer Calibration Technique

MS 201 T C-M = 186967963 MS 261 C-M = 522260407
 MS 362 C-M: 183609631 MS 661 C-M = 184316256

STIHL Recommendation

MS 201 T C-M < 186967963

Replace failed black solenoid valve with green solenoid valve 0000 120 5111 and orange mesh fuel filter 0000 350 3522.

MS 261 C-M < 507337395

Replace failed black solenoid valve with green solenoid valve 0000 120 5111 and orange mesh fuel filter 0000 350 3518.

MS 261 C-M > 507337395

***Kit Number: 1140 007 1802**

Replace failed black solenoid valve with white solenoid valve 0000 120 5104. Install new orange mesh fuel filter 0000 350 3518. All the fore mentioned components (valve & fuel filter) are included in kit 1140 007 1802.

MS 362 C-M

***Kit Number: 1140 007 1802**

Replace failed black solenoid valve with white solenoid valve 0000 120 5104. Install new orange mesh fuel filter 0000 350 3518. All the fore mentioned components (valve & fuel filter) are included in kit 1140 007 1802.

MS 661 C-M

***Kit Number: 1144 007 1801**

Replace failed black solenoid valve with white solenoid valve 0000 120 5104. Install new control module, 1144 400 4704 and new orange mesh fuel filter 0000 350 3518. All the fore mentioned components (valve, fuel filter, & module) are included in kit 1144 007 1801.

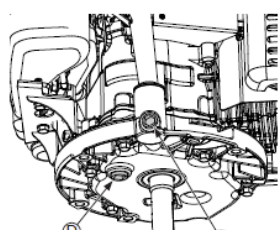
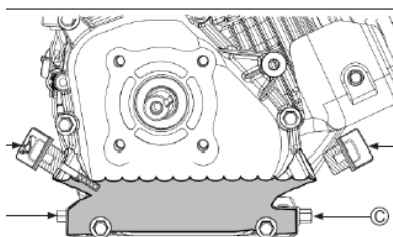
Frequently Asked Questions

Engine Oil Change Intervals

STIHL

confidential

Model	Oil Fill Qty.	First Oil Change	Reg. Oil Change
RB 200	20 oz	After initial 5 hours	After 100 hours
RB 400	20 oz	After initial 5 hours	After 100 hours
RB 600	20 oz	After initial 5 hours	After 100 hours
RB 800	44 oz	After initial 5 hours	After 100 hours



Engine Oil

Description

SAE 10W30

Part Number

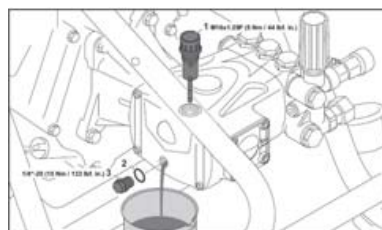
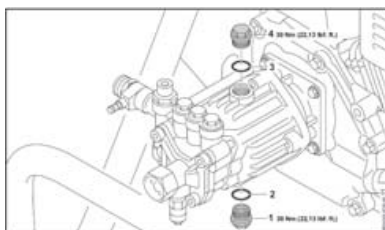
7010 319 0001

Pump Oil Change Intervals

STIHL

confidential

Model	Pump Fill Qty.	First Oil Change	Reg. Oil Change
RB 200	2.2 oz	No change needed	No change needed
RB 400	3.5 oz	After initial 5 hours	After 100 hours
RB 600	16.9 oz	After initial 5 hours	After 250 hours
RB 800	13.35 oz	After initial 5 hours	After 250 hours



Pump Oil

Description

SAE 30ND (Non Detergent)

Part Number

7010 871 0277

Frequently Asked Questions

Model	Off Load RPM's	On Load RPM's	Spraying Pressure	Bypass Pressure
RB 200	3900 max	3300-3500	2250-2350 psi	2800 psi
RB 400	3900 max	3300-3500	2400-2500 psi	3200 psi
RB 600	3900 max	3300-3500	2700-2800 psi	3400 psi
RB 800	3800 max	3300-3500	3700-3800 psi	4400 psi

Model	Min Hose Diameter	Max Hose Length	Min Water Supply	Max Water Temp
RB 200	3/4"	50'	3.3 GPM	125° F
RB 400	3/4"	50'	3.7 GPM	125° F
RB 600	3/4"	50'	4 GPM	125° F
RB 800	3/4"	50'	5 GPM	125° F



	0° RED	15° YELLOW	25° GREEN	40° WHITE	65° BLACK
RB 200	Not Available	Nozzle #: 15027	Nozzle #: 25027	Not Available	Nozzle #: 65400
	Not Available	STIHL P/N: 4925 502 1001	STIHL P/N: 4925 502 1000	Not Available	STIHL P/N: 4925 502 1002
RB 400	Nozzle #: 00030	Nozzle #: 15030	Nozzle #: 25030	Nozzle #: 40030	Nozzle #: 65400
	STIHL P/N: 4925 502 1003	STIHL P/N: 4925 502 1004	STIHL P/N: 4925 502 1005	STIHL P/N: 4925 502 1006	STIHL P/N: 4925 502 1002
RB 600	Nozzle #: 00033	Nozzle #: 15033	Nozzle #: 25033	Nozzle #: 40033	Nozzle #: 65400
	STIHL P/N: 4925 502 1007	STIHL P/N: 4925 502 1008	STIHL P/N: 4925 502 1009	STIHL P/N: 4925 502 1010	STIHL P/N: 4925 502 1002
RB 800	Nozzle #: 00037	Nozzle #: 15037	Nozzle #: 25037	Nozzle #: 40037	Nozzle #: 65400
	STIHL P/N: 4925 502 1011	STIHL P/N: 4925 502 1012	STIHL P/N: 4925 502 1013	STIHL P/N: 4925 502 1014	STIHL P/N: 4925 502 1002

FS 94 R CARB ADJUSTMENT

Carrying out preparations

- Clean the air filter.
- If the air filter is damaged: replace the air filter.
- If a spark arresting screen is present: Clean the spark arresting screen.
- If the spark arresting screen is damaged: Replace spark arresting screen.
- FS 94 R: Fit mowing head and deflector with proper line length.
- KM 94 R: Fit FS-KM KombiTool with mowing head and deflector with proper line length.

Carrying out basic setting on idle stop and low speed adjusting screw.

- Turn idle stop (LA) as far as possible clockwise.
- Start at the fully seated position, using screwdriver 5910 890 2311 turn low speed adjusting screw (L) counterclockwise:

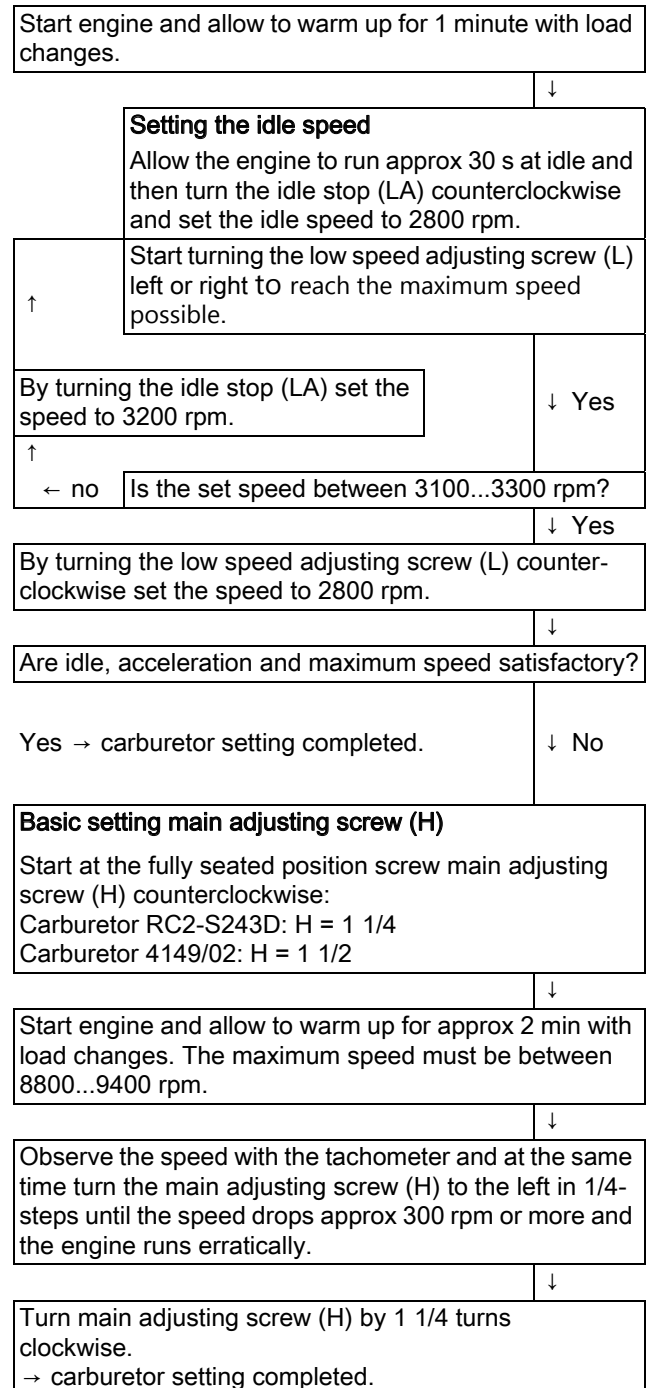
Low speed adjusting screw setting values	L
Carburetor RC2-S243D	2
Carburetor 4149/02	2 1/2

Carrying out idle setting

Set speeds with the aid of a tachometer or with the engine analyzer STIHL MDG 1 tolerance range ± 200 rpm.

Risk of injury from rotating working tool.

- Place machine in such a way that the working tool cannot cause any injuries.



What's In The Box

STIHL HELMET SYSTEMS

Bryan **STIHL**
EQUIPMENT SALES

FUNCTION BASIC HELMET SYSTEM

7010 888 0800



STIHL FUNCTION BASIC HELMET SYSTEM

Bryan **STIHL**
EQUIPMENT SALES

HELMET WITH PINLOCK SUSPENSION

7010 888 1901

VISOR CARRIER 7010 871 0023

EARMUFF (SINGLE) 0000 889 9019

SWEATBAND 7010 871 0025



**NYLON VISOR
0000 889 9028**

What's In The Box

STIHL HELMET SYSTEMS

Bryan **STIHL**
EQUIPMENT SALES

FORESTRY HELMET SYSTEM

0000 886 0100



STIHL FORESTRY HELMET SYSTEM

Bryan **STIHL**
EQUIPMENT SALES

REPLACEMENT HARD
HAT

0000 886 0102

SINGLE CAP
MOUNT EARMUFF

7010 886 0400

SINGLE CAP MOUNT EARMUFF
(PAIR)

0000 886 0406

REPLACEMENT 6 POINT
RATCHET SUSPENSION

0000 886 9901

COOL GUARD SWEAT
BAND

0000 886 0300

HYGIENE KIT

0000 886 0408

VISOR PIN KIT
0000 886 0109

VISOR CARRIER
0000 886 0201



BLACK STEEL VISOR
SCREEN
0000 886 0203

What's In The Box

STIHL HELMET SYSTEMS

Bryan **STIHL**
EQUIPMENT SALES

STIHL ProMark™ HELMET SYSTEM

7010 871 0199



STIHL ProMark™ HELMET SYSTEM

Bryan **STIHL**
EQUIPMENT SALES

HELMET WITH RATCHET
SUSPENSION

7004 884 0100

VISOR CARRIER

7004 884 0403

EARMUFF (SINGLE)

7010 884 0400

NYLON MESH
VISOR

0000 889 9028

RATCHET SUSPENSION

7010 884 0108

SWEATBAND

7010 871 0025



HYGIENE KIT
7010 884 0506

What's In The Box

STIHL HELMET SYSTEMS

Bryan **STIHL**
EQUIPMENT SALES

STIHL Advance X-Vent Helmet System
7010 884 0110



STIHL Advance X-Vent Helmet System

Bryan **STIHL**
EQUIPMENT SALES

HELMET WITH RATCHET
SUSPENSION
7010 888 1900

VISOR CARRIER
0000 889 9013

STAINLESS STEEL
VISOR
7010 888 0600

EAR MUFF SET (2)
7010 888 0200

SWEATBAND
0000 889 9007

RATCHET SUSPENSION
0000 889 9008



SHORT PEAK VISOR
0000 889 9011



HYGIENE KIT
0000 889 9009

STIHL

STIHL INC.



**PRODUCT LIABILITY
GUIDELINES**



SAFETY EDUCATION - QUICK REFERENCE LIST

1. Product Liability Guidelines
#0457 979 0100
2. Chain Saw Warning Label
ANSI Kickback Warning
#0000 967 3613
3. Power Tool Warning Label
#0000 967 3909
4. Chain Saw Safety Manual
#0457 184 3021
(Spanish version #0457 184 3121)
5. Trimmer/Brushcutter Safety Manual
#0457 187 3021
(Spanish version #0457 187 3121)
6. Hedge Trimmer Safety Manual
#0457 189 3021
(Spanish version #0457 189 3121)
7. Cut-off Machine Safety Manual
#0457 186 3021
(Spanish version #0457 186 3121)
8. STIHL Bar and Chain Catalog
with ANSI Information
#0461 005 0000
9. Disclaimer Forms for Chains
#0457 532 3023 (comes with chain reels)
10. DVD Chain Saw Safety, Maintenance
and Operation
#0463 901 0224
10. DVD Cut-off Machine Safety, Maintenance
and Operation
#0463 901 0247

PRODUCT LIABILITY

This booklet provides guidelines concerning your duties as a STIHL distributor (“Distributor”) or dealer/retailer (“Retailer”) with respect to STIHL customers. Always follow these guidelines in dealing with every STIHL customer and if you have any questions concerning them, contact your Distributor or STIHL Incorporated (“STIHL”).

This booklet also provides guidelines for reporting accidents that come to your attention involving STIHL products.

Product liability describes the area of law involving the liability of manufacturers and sellers of products to persons who are injured or whose property is damaged by a “defective” product. “Sellers” within the chain of distribution include the manufacturer, importer, distributor and retailer. A “defective” product claim may arise from the manner in which the product is designed, how it is manufactured, the warnings and instructions which accompany the product or the manner in which it is marketed.

STIHL stands behind its products and its Retailers/Distributors who comply with these guidelines. If a product liability claim of bodily injury or accidental damage to tangible property is made against you, based upon allegations of a defect in a STIHL product that existed at the time the product left STIHL, or an inadequacy in the literature and warnings prepared by STIHL for distribution with the product, STIHL will generally take over the defense of any resulting lawsuit and pay any judgment that may be rendered against you.

Product Liability Guidelines

However, neither STIHL nor any other manufacturer can assume the defense or take on an obligation to indemnify under all circumstances. In the following circumstances, STIHL cannot take over your defense or pay any judgment that may be rendered against you:

1. if there has been any express warranty not authorized by STIHL;
2. if there has been a distribution or sale for a purpose not authorized by STIHL;
3. if there has been a distribution or sale in a manner not authorized by STIHL;
4. if injuries have been caused by attachments to a STIHL product not authorized by STIHL;
5. if the Distributor/Retailer has altered or modified the product from its original design;
6. if the Distributor/Retailer has failed to maintain the product in merchantable condition;
7. if the Distributor/Retailer has improperly performed any inspection, adjustments, tests, servicing or repairs on the product;
8. if the Distributor/Retailer has failed to make such inspection, adjustments, tests or servicing as the Distributor/Retailer has agreed to make or normally undertakes in the usual course of business, in connection with the sale of the product;
9. if the STIHL product, after distribution or sale by STIHL, has been labeled, re-labeled or used with the Distributor's/Retailer's knowledge for any purpose other than its intended purpose;
10. if the Distributor/Retailer has failed to follow STIHL's instructions regarding product registration, labeling, safety instructions, delivery of safety literature and information to customers, or compliance with industry standards or governmental regulations, and the claimant's allegations involve such a failure;
11. if the injury or damage has arisen from any other negligent or wrongful act of the

- Distributor/Retailer or its employees;
12. if the Distributor/Retailer takes a position in the case adverse to the interests of STIHL;
13. if the Distributor/Retailer fails to notify STIHL promptly of any such claim; or
14. if the Distributor/Retailer sells STIHL products that were not designed, manufactured and labeled for sale in the United States.

Before it can assume your defense, STIHL will need to conduct an investigation and determine whether one or more of these exclusions applies. Because relevant facts may not be immediately apparent, and because it may not be possible to resolve questions about such facts immediately, STIHL retains the right – even after the assumption of your defense – to tender that defense back to you. STIHL's assumption of your defense does not constitute a waiver of STIHL's right to contest its obligation to pay a judgment rendered against you on grounds that one or more of the exceptions set out above applies. In appropriate circumstances, STIHL may seek contribution or indemnity from you.

Because neither STIHL nor any manufacturer can defend you in all circumstances, STIHL encourages you to carry your own insurance for these and other cases that may not be covered by STIHL's Product Liability Guidelines. Compliance with these Guidelines may make insurance more affordable.

STIHL can only stand behind its own products. While STIHL bears certain responsibilities for products it manufactures and sells, it bears no similar responsibilities, and has no intention of assuming such responsibilities, for products manufactured and sold by others.

We, therefore, encourage you to use only genuine STIHL batteries, chargers, replacement parts (e.g., sprockets, internal engine components,

etc.) and approved attachments, including but not limited to, guide bars, saw chain, cut-off wheels and other cutting attachments.

We believe that STIHL's continued protection of its authorized Distributors/Retailers is a significant step in helping reduce your cost of doing business.

YOU AND THE STIHL CUSTOMER

As a STIHL Retailer, you are the only part of the STIHL distribution system to have direct contact with the STIHL customer. It is important that a customer knows and respects the equipment. Power tools, if improperly used or maintained, can be dangerous. It is your responsibility to advise customers concerning product safety, including proper accessories and replacement parts. With respect to chain saws, for instance, you should advise the customer about our reduced kickback bar, low kickback chain and STIHL Quickstop® chain brake.

- Make sure that the customer receives the Instruction Manual, as well as any other literature and warnings which accompanied the product.
- Make sure that the purchasers of used STIHL products and customers who bring in STIHL equipment for repair have applicable warning labels and Safety Manuals.
- Always properly assemble and service all STIHL products for the customer, with limited exceptions. Certain battery and corded electric products may be sold to the customer in the box, but must be assembled if requested by the customer. With the exception of chain saws and pole pruners, all corded electric, AK, and AI units, as well as

the HSA 25, RMA 510, FSA 85, HSA 66 and BGA 85, may be sold in the box. This list may change from time to time at STIHL's sole discretion. Please contact your Distributor or STIHL for the most up to date list of products which may be sold in the box.

- If the customer wishes to purchase an eligible battery powered or corded electric product in the box, the retailer must still follow all other requirements stated in these guidelines (e.g., explanation of use, providing manuals and other literature and warnings, product registration).
- Retailer must maintain a display unit for demonstration purposes for all STIHL products sold in the box.
- Demonstrate the correct way of turning the machine on and off and explain any safety features to the customer.
- Wear personal protective apparel and protective equipment when doing product demonstrations.
- Have the customer acknowledge that all safety information was provided and understood. Explain the limited warranty coverage and submit the product registration through STIHL eService or a STIHL EDGE kiosk.
- Ask the customer to view the STIHL safety video or DVDs containing safety precautions for the power equipment being sold. Show this film to regular customers while their equipment is being serviced.
- Familiarize yourself, your staff and your customers with the Instruction Manuals and the safety precautions they contain. For chain saws, for example, discuss kickback, pushback and pull-in; for brushcutters, discuss kickout and thrown objects; and for cut-off machines, discuss pull away, climbing and rotational forces, including kickback. Describe the causes of reactive forces and how to avoid them.
- Discuss the proper cutting attachments and

Product Liability Guidelines

safety-related features for all products, e.g., circular saw blades should not be used on FS, FSE or FSA units with loop handles; toothed saw blades should not be used on TS units; fuel tank caps should always be checked for tightness, etc.

- Do not use obsolete Instruction Manuals or sales literature. If you have any questions concerning whether any particular sales literature or Instruction Manual may be outdated, contact your Distributor or STIHL Incorporated.
- Remind customers to read the Instruction Manual thoroughly before use and to follow all safety precautions – improper use can cause serious or fatal injury. All STIHL Instruction and Safety Manuals are available for download at www.stihlusa.com/manuals/. These instructions and safety precautions can reduce the risk of injury to your customers. Advise the customer that anyone using the product must first read and understand the Instruction Manual.
- Do not place unauthorized attachments or unauthorized replacement parts not manufactured by STIHL on STIHL powerheads.
- Never disconnect, remove or de-activate any safety device or control on the equipment. It is good practice to note on a repair work order any modifications, removal or de-activation of safety equipment on any product brought into your shop. Call these to the attention of the customer and recommend that any such matters be corrected, and the equipment put in proper operating condition. If the customer refuses, note that on the repair work order.
- Keep accurate records of inventory, sales dates, serial numbers and repairs to STIHL products.
- The Retailer invoice should give the name of the purchaser, model and serial number of the equipment and the date purchased.
- STIHL offers warning labels as spare parts and Safety Manuals for chain saws, cut-off machines and brushcutters free of charge. Spanish versions are also available. Provide this safety information to your customers when a product is brought in for repair. If any label is missing or damaged, place the appropriate warning label on the equipment. Part number 0000 967 3613 is the warning label to be used exclusively for chain saws. Part number 0000 967 3909 is the warning label for power tools. Offer the customer the appropriate Safety Manual.

CHAIN SAWS

Make sure that you read and understand the kickback requirements contained in the applicable chain saw standards (e.g., ANSI/OPEI B175.1 and UL 60745-2-13).

STIHL has developed a color code system to make it easier to identify bar and chain combinations that comply with the applicable kickback provisions. That system and your duties under the standards are explained in the STIHL Bar and Chain Catalog. If you do not have a copy of this booklet, call your Distributor or STIHL Incorporated.

Please explain to your customers how to properly match the powerhead with the appropriate bar/chain combinations. If you sell non-complying combinations or fail to adequately warn customers who purchase non-complying combinations, you may increase the risk of kickback injury.

ACCIDENT REPORTING GUIDELINES FOR RETAILERS

Customers may approach you with claims of personal injury or property damage resulting from what they feel is a “defect” or mechanical malfunction in a STIHL product. In order to properly evaluate these claims, it is necessary to quickly obtain as many facts as possible. We recommend that you use the following approach in order to obtain information.

1. Let the customer know STIHL is concerned that one of its products is involved. Express a willingness to listen to the situation and tell your customer that you will need to get some information about the problem in order to understand what happened. Beware of making generalized statements, e.g., “Yep, they all do that sometimes.” Any discussions you may have about the accident or the product may later be evidence in court, if a lawsuit is filed. Therefore, you should not make any commitments or personal judgments about the accident. You should not comment on whether the product was “defective” or whether it malfunctioned.
2. Obtain the model and serial number of the product involved. If a chain saw is involved, obtain the bar length, brand and type, gauge, pitch and condition of the chain. If not a chain saw, obtain information on the working attachment or tool.
3. Ask the customer to explain what happened. Complete an Accident Information Sheet with as much detail as possible. Have the customer sign the completed information sheet and offer the customer a copy. It is important to know

who was at the accident site, specifically when and where the accident occurred, what the claimant was doing at the time the accident occurred, what happened, and how the customer thinks the accident happened. Obtain as many details as possible about these items.

4. Ask what treatments the customer received and from which physicians or hospitals.
5. Determine the history of the product, including its general uses, when and where it was purchased, service and maintenance history, and any additional information about adjustments or modifications. Do a record check and make copies of any product registrations, invoices, work orders, etc., and forward them along with the Accident Information Sheet to STIHL Incorporated as soon as possible.
6. Sign the Accident Information Sheet and forward it immediately to STIHL Incorporated. Fax (757) 486-9185.
7. If there appears to be a significant injury or property damage, notify STIHL Incorporated by telephone at (757) 785-1362 or contact your Distributor as soon as possible.
8. Request that the product involved be brought in for a complete inspection. Because a product involved in an accident is potential evidence, do not disassemble, repair, alter or adjust any product involved in an accident until authorized to do so. Offer to replace the product so that the original unit can be examined by a STIHL Incorporated representative. If the customer rejects your offer, examine the product carefully yourself; make notes on your findings and thoroughly photograph the product.

Accident Information Sheet Chain Saws & Related Accessories

STIHL

Fax to Product Information 1-757-486-9185

Please Print

1. Person injured _____ Date of Accident _____
2. Description of injury _____
3. Address _____ Phone number _____

4. Date of Report _____
5. Owner of product _____
Who has the product now? _____

Please indicate which areas of the body were injured in the drawing below.

6. Brand/Model _____
Battery (if applicable) _____

7. Serial numbers _____
8. Date of purchase _____
9. Purchased from _____

10. Condition of Saw _____
11. Bar part number _____

Brand _____
Date code _____

- Condition/Description _____
12. Chain part number _____

Brand _____
Date code _____

- Pitch/Gauge _____ Description/Condition _____

13. Place of accident _____

14. Witnesses at accident site _____

Name _____ Contact Information _____

15. What have you heard about accident; from whom? _____

16. Any service or repairs? (history) _____

17. Functioning of controls _____

on/off switch

throttle trigger interlock

chain brake

18. Modifications, non-STIHL parts or attachments: _____

19. What decals are on the unit: color _____ part number _____

wording _____

Person filling out this form (please print): _____

Telephone # (Day/evening): _____

(Customer's signature if applicable)

(Signature of dealership staff)

(Printed name)

(Dealership and dealer number)

(Address)

(City/State/Zip)

Do Not Alter or Repair Unit.

Accident Information Sheet Power Tools & Related Accessories

STIHL

Fax to Product Information 1-757-486-9185

Please Print

1. Date of this report _____ 2. Date of Accident _____
3. Description of injury _____

4. Person injured _____

5. Owner of product _____

Who has the product now? _____

6. Brand/Model _____

Battery (if applicable) _____

7. Serial number _____

8. Date of purchase _____

9. Purchased from _____

10. Condition _____

11. Type of cutting attachment (grass blade, polycut, composite or diamond abrasive wheel, etc.) _____

12. Part number of attachment _____

Brand _____

13. Deflector/guards: (type) _____

(description/condition) _____

14. Place of accident _____

15. Witnesses at accident site _____

Name, phone number _____ Contact Information _____

16. What have you heard about accident; from whom? _____

17. Any service or repairs? (history) _____

18. Modifications, non-STIHL parts or attachments: _____

19. Functioning of controls _____

on/off switch

throttle trigger interlock

20. What decals are on the unit: color _____ part number _____

wording _____

Person filling out this form (please print): _____

Telephone # (Day/evening): _____

(Customer's signature if applicable)

(Signature of dealership staff)

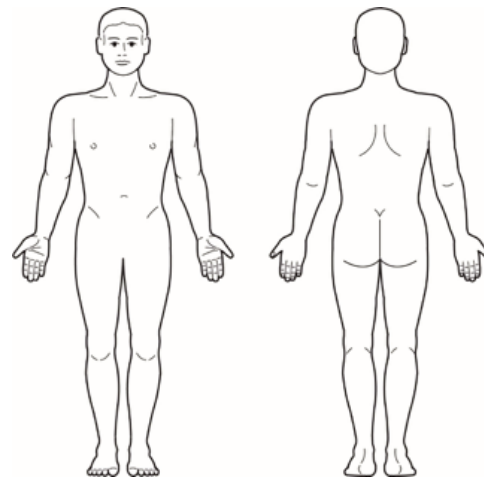
(Printed name)

(Dealership and dealer number)

(Address)

(City/State/Zip)

Please indicate which areas of the body were injured in the drawing below.



Do Not Alter or Repair Unit.

Accident Information Sheet Chain Saws & Related Accessories

STIHL

Please Print

1. Person injured _____ Date of Accident _____

2. Description of injury _____

3. Address _____ Phone number _____

4. Date of Report _____

5. Owner of product _____

Who has the product now? _____

6. Brand/Model _____

Battery (if applicable) _____

7. Serial numbers _____

8. Date of purchase _____

9. Purchased from _____

10. Condition of Saw _____

11. Bar part number _____

Brand _____

Date code _____

Condition/Description _____

12. Chain part number _____

Brand _____

Date code _____

Pitch/Gauge _____ Description/Condition _____

13. Place of accident _____

14. Witnesses at accident site _____

Name _____ Contact Information _____

15. What have you heard about accident; from whom? _____

16. Any service or repairs? (history) _____

17. Functioning of controls _____

on/off switch

throttle trigger interlock

chain brake

18. Modifications, non-STIHL parts or attachments: _____

19. What decals are on the unit: color _____ part number _____

wording _____

Person filling out this form (please print): _____

Telephone # (Day/evening): _____

(Customer's signature if applicable)

(Printed name)

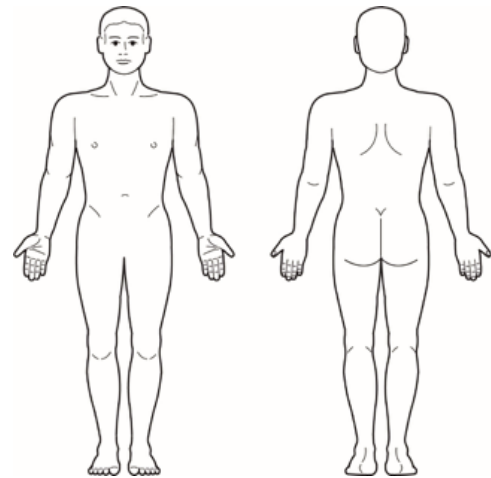
(Signature of dealership staff)

(Dealership and dealer number)

(Address)

(City/State/Zip)

Please indicate which areas of the body were injured in the drawing below.



Do Not Alter or Repair Unit.

Accident Information Sheet Power Tools & Related Accessories

STIHL

Please Print

1. Date of this report _____ 2. Date of Accident _____
3. Description of injury _____

4. Person injured _____

5. Owner of product _____

Who has the product now? _____

6. Brand/Model _____

Battery (if applicable) _____

7. Serial number _____

8. Date of purchase _____

9. Purchased from _____

10. Condition _____

11. Type of cutting attachment (grass blade, polycut, composite or diamond abrasive wheel, etc.) _____

12. Part number of attachment _____

Brand _____

13. Deflector/guards: (type) _____

(description/condition) _____

14. Place of accident _____

15. Witnesses at accident site _____

Name, phone number _____ Contact Information _____

16. What have you heard about accident; from whom? _____

17. Any service or repairs? (history) _____

18. Modifications, non-STIHL parts or attachments: _____

19. Functioning of controls _____

on/off switch

throttle trigger interlock

20. What decals are on the unit: color _____ part number _____

wording _____

Person filling out this form (please print): _____

Telephone # (Day/evening): _____

(Customer's signature if applicable)

(Signature of dealership staff)

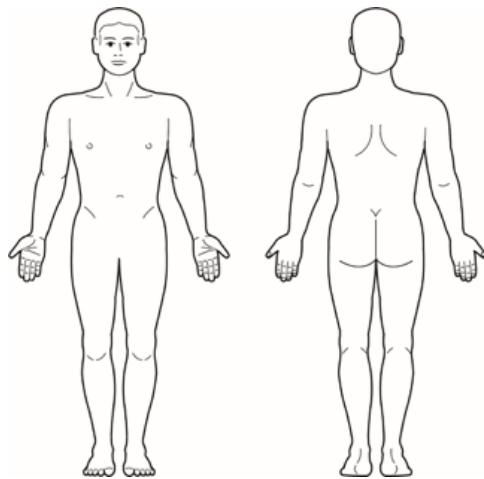
(Printed name)

(Dealership and dealer number)

(Address)

(City/State/Zip)

Please indicate which areas of the body were injured in the drawing below.



Do Not Alter or Repair Unit.



Attention: STIHL Retailers

Because the laws dealing with personal injuries from products are subject to various interpretations, STIHL strongly urges all Retailers to adopt a disclaimer to help protect themselves against possible lawsuits. We suggest Retailers use a form similar to that shown below when a customer brings in a unit that has a safety device removed or de-activated, or otherwise in an unsafe condition (e.g., unauthorized cutting attachment) and the customer declines corrective action.

Notice

I have been advised by (Retailer name and address) that certain hazardous and unsafe conditions exist concerning _____ on this _____ unit or machine. I understand that these conditions are dangerous and can result in personal injury or property damage to the operator or any individuals in the area where this unit is operated. I do not desire to repair or correct this hazard at this time, and I hereby absolve and release (Name of Retailer) _____ and their employees of any responsibility or liability concerning this matter and accept all liability myself, and shall hold (Name of Retailer) _____ and their employees harmless, and shall indemnify (Name of Retailer) _____ or their employees in the event of any injury and any cost incurred by them in the event of a claim or demand made concerning any such injury or property damage.

Date

Retailer Name

Customer

Customer Signature

Safety is Everyone's Business

STIHL Cutquik® Wheel Selection Warning

Only STIHL-branded composite and diamond wheels are recommended. Although certain other wheels may fit and be usable with the STIHL powerhead, their use may, in fact, be extremely dangerous. Wheels that are not STIHL-branded may be more likely to shatter or break or cause other problems, such as wheel wobble and/or increased reactive forces. Use only wheels with approved RPM ratings for your cut-off machine. Consult the instruction manual for your STIHL cut-off machine or current STIHL Cut-Off Machine Safety Manual for more details.



Photos #1 and #2 show examples of recommended STIHL diamond abrasive wheels that grind material. Note that the cooling slots and segments on such diamond wheels are NOT cutting teeth.



WARNING - Never use a carbide-tipped, wood-cutting or circular saw blade on STIHL Cutquik® cut-off machines. Such blades can greatly increase the risk of loss of control and cause severe or fatal injury from reactive forces, including kickback, blade contact or thrown objects/carbide tips.



Photos #3, #4 and #5 are examples of carbide-tipped, rescue or circular saw blades which are **NOT AUTHORIZED** for use on STIHL cut-off machines.



WARNING - Diamond wheels with abrasive material on the sides are not authorized by STIHL. Such abrasive material may increase reactive forces in a pinch situation and the risk of serious or fatal injury.



Photos #6, #7 and #8 are examples of diamond wheels with abrasive material on the side of the wheels. These types of diamond wheels are **NOT AUTHORIZED** for use on STIHL cut-off machines.



WARNING - Some diamond wheels that are not STIHL-branded are prone to wobble during use. This condition may be caused by poor quality steel used in the core, lack or loss of tensioning, or other design or manufacturing problems. Wheel wobble can lead to binding, loss of control and/or kickback. To reduce the risk of serious or fatal injury, never use a wheel that wobbles or has previously wobbled.

STIHL Trimmer Line Buying Guide

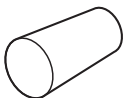
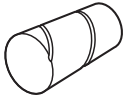
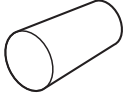
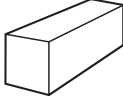
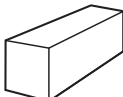
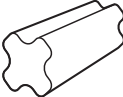
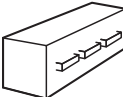
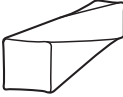
STIHL

STIHL TRIMMER LINE BUYING GUIDE

STIHL has a trimmer line for every potential application. Ask your dealer for the proper line and diameter to meet your needs and fit your trimmer head.

STIHL COLOR-CODED LINE

To make it easy to select the line diameter that's right for you, we have color-coded our premium round, Quiet Line™, premium square and Pentagon lines. Once you have the trimmer line and diameter that's right for you, selecting refills will be quick and simple.

		.065	.080	.095	.105	.118	.120	.130	.155
PREMIUM ROUND LINE This high-performance trimmer line is manufactured in a variety of diameters to fit all STIHL line trimmer heads and is specially formulated to prevent fraying and welding.									
QUIET LINE™ The spiral grooves of STIHL Quiet Line™ greatly reduce wind noise. This trimmer line is primarily used with electric and battery-powered line trimmers.									
COMMERCIAL ROUND LINE STIHL commercial line delivers fast, efficient cuts and is highly durable, so you spend more time trimming and less time spooling.									
PREMIUM SQUARE LINE This premium line is more aggressive than round line and is intended for cutting through thick grass and weeds efficiently and effectively.									
COMMERCIAL SQUARE LINE The edges of our square trimmer line allow it to cleanly slice through grass and weeds. This line is great for professionals who have to tackle heavy weeds on a daily basis.									
PENTAGON LINE Pentagon line combines the hard edges of square line with the durability and easy re-spooling of round line for great performance under tough conditions.									
X-LINE Designed for stubborn vegetation, X-Line can be used at high temperatures and features a unique shape that grabs grass and weeds and cuts them clean.									
DUROCUT SERRATED LINE Used with the DuroCut line head, these pre-cut lengths of serrated nylon mowing line are the perfect choice for severe applications.									
CF3 PRO LINE The revolutionary CF3 Pro Line is compatible with all STIHL nylon line trimmer heads, making it a great choice for hardworking homeowners and professionals.									

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Warranty Time Periods by Product

STIHL

Product Type	Personal Household Use	Commercial, Professional Use
MS Chain Saws (excluding top handle models)	1 year	3 months
MS Chain Saws With a Top Handle (i.e. MS xxx T or MSA xxx T) <i>Top handle chain saws are for in-tree professional use only!</i>	Not Applicable	3 months
MSE 120 Volt A.C. Electric Chain Saws	1 year	3 months
FS Trimmers, Brushcutters and Clearing Saws	Flexible and solid drive cables on FS trimmers, brushcutters, clearing saws, FC edgers, HL hedge trimmers, KM and MM multi-task tools, KM attachments, and fixed length HT pole pruners will be covered by limited warranty to the original retail purchaser for as long as the appropriate spare part continues to remain available from STIHL.	2 years
FSE 120 Volt A.C. Electric Trimmers		
FC Edgers		
HL Extended Reach Hedge Trimmers		
KM Multi-Task Tools & KM Attachments		
MM Multi-Task Tools & MM Attachments		
HT Pole Pruners Fixed Length Models		
HT Pole Pruners Telescoping Models	2 years	
HS Hedge Trimmers		
HSE 120 Volt A.C. Electric Hedge Trimmers		
BG Handheld Blowers		
BGE 120 Volt A.C. Electric Handheld Blowers		
SH Shredder Vac/Blowers		
BR Backpack Blowers		
SR Backpack Sprayers		
BT Augers & Drill		
SE Vacuum Cleaners		

Product Type	Personal Household Use	Commercial, Professional Use
SG Manual Pump Sprayers	1 year	1 year
TS Cut-Off Machines	Not Applicable	3 months
TSA Cordless Electric Cut-Off Machine		
GS Concrete Cutters		
Cordless Electric Battery Products		
MSA Chain Saws With a Top Handle (i.e. MSA xxx T) Top handle chain saws are for in-tree professional use only!	Not Applicable	3 months
TSA Cut-Off Machines		
MSA Chain Saws (excluding top handle models)	3 years	2 years
FSA Trimmers and Brushcutters		
BGA Handheld Blowers		
HSA Hedge Trimmers		
HLA Extended Reach Hedge Trimmers		
HTA Pole Pruners		
RMA Lawnmowers		
RMI Robotic Lawnmowers		
Batteries & Chargers	3 years	2 years
Pressure Washers Gas & Electric	2 years	1 year

All STIHL products & components are warranted for three months, or the applicable emission-related parts warranty period, when the product is used for rental purposes.

NOTE: All TS, TSA, GS, RB, RE, and robotic lawnmower models do not qualify for the STIHL 7-Day Satisfaction Guarantee.

WARRANTY PARTS RETURN

Retain the parts for 90 days from the date you submit the warranty claim. You will be notified by STIHL Incorporated or your STIHL Distribution Center to return the parts if they are needed for further examination. **NOTE: it is important the part matches the information on the warranty claim and be the same part that was replaced. If the retailer returns a part to STIHL that does not match the machine or information listed on the claim or does not fall within the guidelines of STIHL Incorporated's limited warranty policy, STIHL will charge the entire claim amount back to the dealer.**