

# WRENCHES.

## FOR AUTOMOTIVE AND LIGHT-INDUSTRIAL USE.

Blackhawk™ by Proto® wrenches are available in sets and as singles, in many styles and sizes, finished in full polish, satin and black. Each wrench is corrosion resistant and easy to clean. The torque wrench line is manufactured to precise specifications for maximum performance in torque applications, available in two drive sizes with several torque ranges.



**Blackhawk**  
BY PROTO

# Wrenches

Wrenches

## 18 PIECE FULL POLISH COMBINATION WRENCH SET—STANDARD AND *METRIC*

• Weight: 11 lbs.



Item No.	Contents	Size
BW-9718NB	BW-1156FP	1/4"
	BW-1159FP	5/16"
	BW-1160FP	3/8"
	BW-1161FP	7/16"
	BW-1162FP	1/2"
	BW-1163FP	9/16"
	BW-1164FP	5/8"
	BW-1165FP	11/16"
	BW-1166FP	3/4"
	BW-1110MFP	10 mm
	BW-1111MFP	11 mm
	BW-1112MFP	12 mm
	BW-1113MFP	13 mm
	BW-1114MFP	14 mm
	BW-1115MFP	15 mm
	BW-1116MFP	16 mm
	BW-1117MFP	17 mm
	BW-1118MFP	18 mm
	Wrench Roll	



## 14 PIECE FULL POLISH COMBINATION WRENCH SET

• Weight: 9.90 lbs.

Item No.	Contents	Size
BW-14PT	BW-1159FP	5/16"
	BW-1160FP	3/8"
	BW-1161FP	7/16"
	BW-1162FP	1/2"
	BW-1163FP	9/16"
	BW-1164FP	5/8"
	BW-1165FP	11/16"
	BW-1166FP	3/4"
	BW-1167AFP	13/16"
	BW-1167FP	7/8"
	BW-1168FP	15/16"
	BW-1170FP	1"
	BW-1172FP	1-1/8"
	BW-1173FP	1-1/4"
	Wrench Roll	



# Wrenches

## 14 PIECE FULL POLISH COMBINATION WRENCH SET – METRIC

• Weight: 9 lbs.

Item No.	Contents	Size
BW-14MPT	BW-1107MFP	7 mm
	BW-1108MFP	8 mm
	BW-1109MFP	9 mm
	BW-1110MFP	10 mm
	BW-1111MFP	11 mm
	BW-1112MFP	12 mm
	BW-1113MFP	13 mm
	BW-1114MFP	14 mm
	BW-1115MFP	15 mm
	BW-1116MFP	16 mm
	BW-1117MFP	17 mm
	BW-1118MFP	18 mm
	BW-1119MFP	19 mm
	BW-1120MFP	20 mm
	Wrench Roll	



## 11 PIECE FULL POLISH COMBINATION WRENCH SET

• Weight: 8.70 lbs.

Item No.	Contents	Size
BW-11PT	BW-1160FP	3/8"
	BW-1161FP	7/16"
	BW-1162FP	1/2"
	BW-1163FP	9/16"
	BW-1164FP	5/8"
	BW-1165FP	11/16"
	BW-1166FP	3/4"
	BW-1167AFP	13/16"
	BW-1167FP	7/8"
	BW-1168FP	15/16"
	BW-1170FP	1"
	Wrench Roll	



## 11 PIECE FULL POLISH COMBINATION WRENCH SET – METRIC

• Weight: 8.70 lbs.

Item No.	Contents	Size
BW-11P	BW-1107MFP	7 mm
	BW-1109MFP	9 mm
	BW-1110MFP	10 mm
	BW-1111MFP	11 mm
	BW-1112MFP	12 mm
	BW-1113MFP	13 mm
	BW-1114MFP	14 mm
	BW-1115MFP	15 mm
	BW-1117MFP	17 mm
	BW-1118MFP	18 mm
	BW-1119MFP	19 mm
	Wrench Roll	



# Wrenches

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## 9 PIECE FULL POLISH COMBINATION WRENCH SET

• Weight: 6.80 lbs.

Item No.	Contents	Size
9609PNB	BW-1156FP	1/4"
	BW-1159FP	5/16"
	BW-1160FP	3/8"
	BW-1161FP	7/16"
	BW-1162FP	1/2"
	BW-1163FP	9/16"
	BW-1164FP	5/8"
	BW-1165FP	11/16"
	BW-1166FP	3/4"
	Wrench Roll	



## 9 PIECE FULL POLISH COMBINATION WRENCH SET – METRIC

• Weight: 6.80 lbs.

Item No.	Contents	Size
9609MNB	BW-1110MFP	10 mm
	BW-1111MFP	11 mm
	BW-1112MFP	12 mm
	BW-1113MFP	13 mm
	BW-1114MFP	14 mm
	BW-1115MFP	15 mm
	BW-1116MFP	16 mm
	BW-1117MFP	17 mm
	BW-1118MFP	18 mm
	Wrench Roll	



## FULL POLISH COMBINATION WRENCH

Item No.	Size	Length	Weight
BW-1156FP	1/4"	4.0"	0.04 lbs.
BW-1159FP	5/16"	4.5"	0.06 lbs.
BW-1160FP	3/8"	5.1"	0.11 lbs.
BW-1161FP	7/16"	5.7"	0.13 lbs.
BW-1162FP	1/2"	6.1"	0.20 lbs.
BW-1163FP	9/16"	7.1"	0.20 lbs.
BW-1164FP	5/8"	7.9"	0.30 lbs.
BW-1165FP	11/16"	8.7"	0.30 lbs.
BW-1166FP	3/4"	9.6"	0.60 lbs.
BW-1167AFP	13/16"	10.6"	0.60 lbs.
BW-1167FP	7/8"	11.6"	0.65 lbs.
BW-1168FP	15/16"	12.5"	0.70 lbs.
BW-1170FP	1"	13.4"	0.80 lbs.
BW-1171FP	1-1/16"	14.7"	0.90 lbs.
BW-1172FP	1-1/8"	15.5"	1.10 lbs.
BW-1173FP	1-1/4"	16.8"	1.40 lbs.
BW-1174FP	1-5/16"	17.6"	2.10 lbs.
BW-1175FP	1-3/8"	18.5"	2.70 lbs.
BW-1176FP	1-7/16"	19.3"	2.50 lbs.
BW-1177FP	1-1/2"	20.2"	3.40 lbs.

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# Wrenches

## FULL POLISH COMBINATION WRENCH – METRIC

Item No.	Size	Length	Weight
BW-1106MFP	6 mm	4.0"	0.04 lbs.
BW-1107MFP	7 mm	4.3"	0.05 lbs.
BW-1108MFP	8 mm	4.5"	0.07 lbs.
BW-1109MFP	9 mm	4.8"	0.09 lbs.
BW-1110MFP	10 mm	5.0"	0.10 lbs.
BW-1111MFP	11 mm	5.8"	0.14 lbs.
BW-1112MFP	12 mm	6.1"	0.14 lbs.
BW-1113MFP	13 mm	6.5"	0.20 lbs.
BW-1114MFP	14 mm	7.1"	0.25 lbs.
BW-1115MFP	15 mm	7.6"	0.29 lbs.
BW-1116MFP	16 mm	8.1"	0.37 lbs.
BW-1117MFP	17 mm	8.7"	0.37 lbs.
BW-1118MFP	18 mm	9.2"	0.45 lbs.
BW-1119MFP	19 mm	9.7"	0.47 lbs.
BW-1120MFP	20 mm	10.2"	0.53 lbs.
BW-1121MFP	21 mm	10.5"	0.65 lbs.
BW-1122MFP	22 mm	11.6"	0.75 lbs.
BW-1124MFP	24 mm	12.5"	0.92 lbs.
BW-1125MFP	25 mm	13.5"	1.05 lbs.
BW-1126MFP	26 mm	13.5"	1.00 lbs.
BW-1127MFP	27 mm	15.0"	1.35 lbs.
BW-1128MFP	28 mm	15.4"	1.53 lbs.
BW-1130MFP	30 mm	15.4"	1.53 lbs.
BW-1132MFP	32 mm	17.0"	2.08 lbs.

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Wrenches

## 17 PIECE SATIN FINISH COMBINATION WRENCH SET

• Weight: 10.50 lbs.

Item No.	Contents	Size
MF-017	BW-1156	1/4"
	BW-1159	5/16"
	BW-1160	3/8"
	BW-1161	7/16"
	BW-1162	1/2"
	BW-1163	9/16"
	BW-1164	5/8"
	BW-1165	11/16"
	BW-1166	3/4"
	BW-1167A	13/16"
	BW-1167	7/8"
	BW-1168	15/16"
	BW-1170	1"
	BW-1171	1-1/16"
	BW-1172	1-1/8"
	BW-1173	1-1/4"
	BW-1174	1-5/16"
	Wrench Roll	



# Wrenches

Wrenches

## 17 PIECE SATIN FINISH COMBINATION WRENCH SET – METRIC

• Weight: 10.50 lbs.



Item No.	Contents	Size
MF-017M	BW-1106M	6 mm
	BW-1107M	7 mm
	BW-1108M	8 mm
	BW-1109M	9 mm
	BW-1110M	10 mm
	BW-1111M	11 mm
	BW-1112M	12 mm
	BW-1113M	13 mm
	BW-1114M	14 mm
	BW-1115M	15 mm
	BW-1116M	16 mm
	BW-1117M	17 mm
	BW-1118M	18 mm
	BW-1119M	19 mm
	BW-1120M	20 mm
	BW-1121M	21 mm
	BW-1122M	22 mm
	Wrench Roll	

## 14 PIECE SATIN FINISH COMBINATION WRENCH SET

• Weight: 9 lbs.



Item No.	Contents	Size
MF-014	BW-1159	5/16"
	BW-1160	3/8"
	BW-1161	7/16"
	BW-1162	1/2"
	BW-1163	9/16"
	BW-1164	5/8"
	BW-1165	11/16"
	BW-1166	3/4"
	BW-1167A	13/16"
	BW-1167	7/8"
	BW-1168	15/16"
	BW-1170	1"
	BW-1172	1-1/8"
	BW-1173	1-1/4"
	Wrench Roll	

## 11 PIECE SATIN FINISH COMBINATION WRENCH SET

• Weight: 4 lbs.



Item No.	Contents	Size
MF-011	BW-1156	1/4"
	BW-1160	3/8"
	BW-1161	7/16"
	BW-1162	1/2"
	BW-1163	9/16"
	BW-1164	5/8"
	BW-1165	11/16"
	BW-1166	3/4"
	BW-1167A	13/16"
	BW-1167	7/8"
	BW-1168	15/16"
	Wrench Roll	



# Wrenches

## 11 PIECE SATIN FINISH COMBINATION WRENCH SET – METRIC

• Weight: 2.40 lbs.

Item No.	Contents	Size
MF-011M	BW-1106M	6 mm
	BW-1107M	7 mm
	BW-1108M	8 mm
	BW-1109M	9 mm
	BW-1110M	10 mm
	BW-1111M	11 mm
	BW-1112M	12 mm
	BW-1113M	13 mm
	BW-1114M	14 mm
	BW-1115M	15 mm
	BW-1116M	16 mm
		Wrench Roll



## 8 PIECE SATIN FINISH COMBINATION WRENCH SET

• Weight: 2 lbs.

Item No.	Contents	Size
MF-008	BW-1156	1/4"
	BW-1159	5/16"
	BW-1160	3/8"
	BW-1161	7/16"
	BW-1162	1/2"
	BW-1163	9/16"
	BW-1164	5/8"
	BW-1166	3/4"
	Wrench Roll	



## 8 PIECE SATIN FINISH COMBINATION WRENCH SET – METRIC

• Weight: 1.90 lbs.

Item No.	Contents	Size
MF-008M	BW-1108M	8 mm
	BW-1109M	9 mm
	BW-1110M	10 mm
	BW-1111M	11 mm
	BW-1112M	12 mm
	BW-1114M	14 mm
	BW-1117M	17 mm
	BW-1119M	19 mm
	Wrench Roll	



## 6 PIECE SATIN FINISH COMBINATION WRENCH SET

• Weight: 1.70 lbs.

Item No.	Contents	Size
MF-006	BW-1160	3/8"
	BW-1161	7/16"
	BW-1162	1/2"
	BW-1163	9/16"
	BW-1164	5/8"
	BW-1166	3/4"
	Wrench Roll	



# Wrenches



## SATIN FINISH COMBINATION WRENCH – 12 POINT

Item No.	Size	Length	Weight
BW-1156	1/4"	4.0"	0.04 lbs.
BW-1159	5/16"	4.4"	0.06 lbs.
BW-1160	3/8"	5.1"	0.11 lbs.
BW-1161	7/16"	5.8"	0.13 lbs.
BW-1162	1/2"	6.4"	0.18 lbs.
BW-1163	9/16"	7.1"	0.25 lbs.
BW-1164	5/8"	7.9"	0.30 lbs.
BW-1165	11/16"	8.8"	0.39 lbs.
BW-1166	3/4"	9.7"	0.47 lbs.
BW-1167A	13/16"	10.6"	0.66 lbs.
BW-1167	7/8"	11.6"	0.78 lbs.
BW-1168	15/16"	12.6"	0.94 lbs.
BW-1170	1"	13.5"	1.02 lbs.
BW-1171	1-1/16"	14.7"	1.29 lbs.
BW-1172	1-1/8"	15.5"	1.57 lbs.
BW-1173	1-1/4"	16.8"	1.91 lbs.
BW-1174	1-5/16"	17.6"	2.61 lbs.
BW-1175	1-3/8"	18.5"	2.63 lbs.
BW-1176	1-7/16"	19.4"	3.45 lbs.
BW-1177	1-1/2"	20.3"	3.43 lbs.

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## SATIN FINISH COMBINATION WRENCH – 12 POINT – METRIC

Item No.	Size	Length	Weight
BW-1106M	6 mm	4.0"	0.04 lbs.
BW-1107M	7 mm	4.2"	0.05 lbs.
BW-1108M	8 mm	4.4"	0.07 lbs.
BW-1109M	9 mm	4.8"	0.09 lbs.
BW-1110M	10 mm	5.1"	0.10 lbs.
BW-1111M	11 mm	5.8"	0.14 lbs.
BW-1112M	12 mm	6.1"	0.14 lbs.
BW-1113M	13 mm	6.4"	0.20 lbs.
BW-1114M	14 mm	7.1"	0.25 lbs.
BW-1115M	15 mm	7.5"	0.29 lbs.
BW-1116M	16 mm	7.9"	0.37 lbs.
BW-1117M	17 mm	8.8"	0.37 lbs.
BW-1118M	18 mm	9.2"	0.45 lbs.
BW-1119M	19 mm	9.7"	0.47 lbs.
BW-1120M	20 mm	10.1"	0.53 lbs.
BW-1121M	21 mm	10.6"	0.65 lbs.
BW-1122M	22 mm	11.6"	0.75 lbs.
BW-1124M	24 mm	12.6"	0.92 lbs.
BW-1125M	25 mm	13.5"	1.05 lbs.
BW-1126M	26 mm	13.5"	1.00 lbs.
BW-1127M	27 mm	14.7"	1.35 lbs.
BW-1128M	28 mm	15.5"	1.53 lbs.
BW-1130M	30 mm	15.5"	1.53 lbs.
BW-1132M	32 mm	16.8"	2.08 lbs.

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# Wrenches

## 14 PIECE BLACK FINISH COMBINATION WRENCH SET

• Weight: 11 lbs.

Item No.	Contents	Size
BL-014	BW-1160B	3/8"
	BW-1161B	7/16"
	BW-1162B	1/2"
	BW-1163B	9/16"
	BW-1164B	5/8"
	BW-1165B	11/16"
	BW-1166B	3/4"
	BW-1167AB	13/16"
	BW-1167B	7/8"
	BW-1168B	15/16"
	BW-1170B	1"
	BW-1171B	1-1/16"
	BW-1172B	1-1/8"
	BW-1173B	1-1/4"
Wrench Roll		



## 14 PIECE BLACK FINISH COMBINATION WRENCH SET – METRIC

• Weight: 11 lbs.

Item No.	Contents	Size
BL-014M	BW-1107MB	7 mm
	BW-1108MB	8 mm
	BW-1109MB	9 mm
	BW-1110MB	10 mm
	BW-1111MB	11 mm
	BW-1112MB	12 mm
	BW-1113MB	13 mm
	BW-1114MB	14 mm
	BW-1115MB	15 mm
	BW-1116MB	16 mm
	BW-1117MB	17 mm
	BW-1118MB	18 mm
	BW-1119MB	19 mm
	BW-1120MB	20 mm
Wrench Roll		



## 9 PIECE BLACK FINISH COMBINATION WRENCH SET

• Weight: 1.90 lbs.

Item No.	Contents	Size
BL-009	BW-1156B	1/4"
	BW-1159B	5/16"
	BW-1160B	3/8"
	BW-1161B	7/16"
	BW-1162B	1/2"
	BW-1163B	9/16"
	BW-1164B	5/8"
	BW-1165B	11/16"
	BW-1166B	3/4"
Wrench Roll		



# Wrenches

Wrenches



## 9 PIECE BLACK FINISH COMBINATION WRENCH SET – METRIC

• Weight: 1.90 lbs.

Item No.	Contents	Size
BL-009M	BW-1110MB	10 mm
	BW-1111MB	11 mm
	BW-1112MB	12 mm
	BW-1113MB	13 mm
	BW-1114MB	14 mm
	BW-1115MB	15 mm
	BW-1116MB	16 mm
	BW-1117MB	17 mm
	BW-1118MB	18 mm
		Wrench Roll



## 6 PIECE BLACK FINISH COMBINATION WRENCH SET

• Weight: 1 lbs.

Item No.	Contents	Size
BL-006	BW-1160B	3/8"
	BW-1161B	7/16"
	BW-1162B	1/2"
	BW-1163B	9/16"
	BW-1164B	5/8"
	BW-1166B	3/4"
	Wrench Roll	



## 6 PIECE BLACK FINISH COMBINATION WRENCH SET – METRIC

• Weight: 1 lbs.

Item No.	Contents	Size
BL-006M	BW-1110MB	10 mm
	BW-1111MB	11 mm
	BW-1112MB	12 mm
	BW-1113MB	13 mm
	BW-1117MB	17 mm
	BW-1118MB	18 mm
	Wrench Roll	



# Wrenches

## BLACK FINISH COMBINATION WRENCH

Item No.	Size	Length	Weight
BW-1156B	1/4"	4.0"	0.04 lbs.
BW-1159B	5/16"	4.4"	0.06 lbs.
BW-1160B	3/8"	5.1"	0.11 lbs.
BW-1161B	7/16"	5.8"	0.13 lbs.
BW-1162B	1/2"	6.4"	0.18 lbs.
BW-1163B	9/16"	7.1"	0.25 lbs.
BW-1164B	5/8"	7.9"	0.30 lbs.
BW-1165B	11/16"	8.8"	0.39 lbs.
BW-1166B	3/4"	9.7"	0.47 lbs.
BW-1167AB	13/16"	10.6"	0.66 lbs.
BW-1167B	7/8"	11.6"	0.78 lbs.
BW-1168B	15/16"	12.6"	0.94 lbs.
BW-1170B	1"	13.5"	1.02 lbs.
BW-1171B	1-1/16"	14.7"	1.29 lbs.
BW-1172B	1-1/8"	15.5"	1.57 lbs.
BW-1173B	1-1/4"	16.8"	1.91 lbs.
BW-1174B	1-5/16"	17.6"	2.61 lbs.
BW-1175B	1-3/8"	18.5"	2.63 lbs.
BW-1176B	1-7/16"	19.4"	3.45 lbs.
BW-1177B	1-1/2"	20.3"	3.43 lbs.

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## BLACK FINISH COMBINATION WRENCH – METRIC

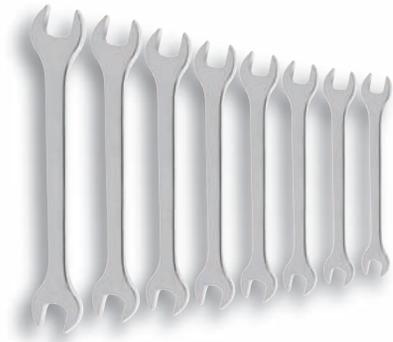
Item No.	Size	Length	Weight
BW-1106MB	6 mm	4.0"	0.04 lbs.
BW-1107MB	7 mm	4.2"	0.05 lbs.
BW-1108MB	8 mm	4.4"	0.07 lbs.
BW-1109MB	9 mm	4.8"	0.09 lbs.
BW-1110MB	10 mm	5.1"	0.10 lbs.
BW-1111MB	11 mm	5.8"	0.14 lbs.
BW-1112MB	12 mm	6.1"	0.14 lbs.
BW-1113MB	13 mm	6.4"	0.20 lbs.
BW-1114MB	14 mm	7.1"	0.25 lbs.
BW-1115MB	15 mm	7.5"	0.29 lbs.
BW-1116MB	16 mm	7.9"	0.37 lbs.
BW-1117MB	17 mm	8.8"	0.37 lbs.
BW-1118MB	18 mm	9.2"	0.45 lbs.
BW-1119MB	19 mm	9.7"	0.47 lbs.
BW-1120MB	20 mm	10.1"	0.53 lbs.
BW-1121MB	21 mm	10.6"	0.65 lbs.
BW-1122MB	22 mm	11.6"	0.75 lbs.
BW-1124MB	24 mm	12.6"	0.92 lbs.
BW-1125MB	25 mm	13.5"	1.05 lbs.
BW-1126MB	26 mm	13.5"	1.00 lbs.
BW-1127MB	27 mm	14.7"	1.35 lbs.
BW-1128MB	28 mm	15.5"	1.53 lbs.
BW-1130MB	30 mm	15.5"	1.53 lbs.
BW-1132MB	32 mm	16.8"	2.08 lbs.

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# Wrenches

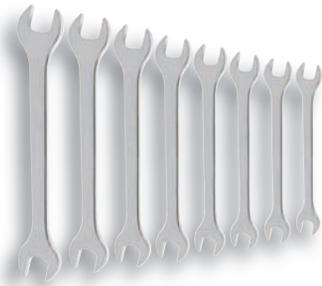
Wrenches



## 8 PIECE OPEN END WRENCH SET

- Weight: 2.16 lbs.
- Full Polished Finish

Item No.	Contents	Size
BW-108PNB	4020P	1/4" X 5/16"
	4723P	3/8" X 7/16"
	4724P	7/16" X 1/2"
	4725P	1/2" X 9/16"
	4727P	5/8" X 11/16"
	4728P	11/16" X 3/4"
	4732P	13/16" X 7/8"
	4033P	15/16" X 1"
Wrench Roll		



## 8 PIECE OPEN END WRENCH SET – METRIC

- Weight: 2.16 lbs.
- Full Polished Finish

Item No.	Contents	Size
BW-108MNB	BWE-67MP	6 X 7 mm
	BWE-89MP	8 X 9 mm
	BWE-1011MP	10 X 11 mm
	BWE-1213MP	12 X 13 mm
	BWE-1415MP	14 X 15 mm
	BWE-1617MP	16 X 17 mm
	BWE-1819MP	18 X 19 mm
	BWE-2022MP	20 X 22 mm
Wrench Roll		



## OPEN END WRENCH

- Full Polished Finish

Item No.	Size	Length	Weight
4020P	1/4" X 5/16"	4.5"	0.04 lbs.
4723P	3/8" X 7/16"	5.8"	0.09 lbs.
4724P	7/16" X 1/2"	6.4"	0.13 lbs.
4725P	1/2" X 9/16"	7.0"	0.18 lbs.
4727P	5/8" X 11/16"	8.3"	0.33 lbs.
4728P	11/16" X 3/4"	8.9"	0.46 lbs.
4732P	13/16" X 7/8"	10.1"	0.56 lbs.
4033P	15/16" X 1"	11.4"	0.85 lbs.

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## OPEN END WRENCH – METRIC

- Full Polished Finish

Item No.	Size	Length	Weight
BWE-67MP	6 X 7 mm	4.5"	0.04 lbs.
BWE-89MP	8 X 9 mm	5.1"	0.06 lbs.
BWE-1011MP	10 X 11 mm	5.8"	0.10 lbs.
BWE-1213MP	12 X 13 mm	6.4"	0.14 lbs.
BWE-1415MP	14 X 15 mm	7.6"	0.28 lbs.
BWE-1617MP	16 X 17 mm	8.3"	0.37 lbs.
BWE-1819MP	18 X 19 mm	8.9"	0.50 lbs.
BWE-2022MP	20 X 22 mm	9.5"	0.77 lbs.

ASME B107.100



# Wrenches

## 10 PIECE OPEN END IGNITION WRENCH SET

- Weight: 1.90 lbs.
- Satin Finish

Item No.	Contents	Size
EW-40NB	3114	13/64" X 15/64"
	3116	7/32" X 1/4"
	3118	15/64" X 13/64"
	3120	1/4" X 7/32"
	3122	17/64" X 19/64"
	3124	9/32" X 5/16"
	3128	5/16" X 9/32"
	3130	11/32" X 3/8"
	3132	3/8" X 11/32"
	3134	7/16" X 1/2"
Wrench Roll		



## OPEN END IGNITION WRENCHES

- Satin Finish

Item No.	Size	Length	Weight
3114	13/64 X 15/64"	3.2"	0.20 lbs.
3116	7/32 X 1/4"	3.2"	0.25 lbs.
3118	15/64 X 13/64"	3.2"	0.40 lbs.
3120	1/4 X 7/32"	4.5"	0.56 lbs.
3122	17/64 X 19/64"	4.7"	0.75 lbs.
3124	9/32 X 5/16"	5.0"	1.00 lbs.
3128	5/16 X 9/32"	5.2"	1.25 lbs.
3130	11/32 X 3/8"	5.5"	1.50 lbs.
3132	3/8 X 11/32"	5.7"	1.75 lbs.
3134	7/16 X 1/2"	6.0"	2.00 lbs.
Wrench Roll			



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## 6 PIECE LONG BOX END WRENCH SET

- Weight: 3.36 lbs.
- Full Polished Finish

Item No.	Contents	Size
BW-6PTNB	BWS-1202P	5/16" X 3/8"
	BWS-1206P	7/16" X 1/2"
	BWS-1211P	9/16" X 5/8"
	BWS-1214P	11/16" X 3/4"
	BWS-1216P	13/16" X 7/8"
	BWS-1218P	15/16" X 1"
Wrench Roll		



# Wrenches



## LONG BOX END WRENCH

- Full Polished Finish

Item No.	Size	Length	Weight
BWS-1202P	5/16" X 3/8"	7.0"	0.10 lbs.
BWS-1206P	7/16" X 1/2"	8.1"	0.18 lbs.
BWS-1210P	1/2" X 9/16"	8.0"	0.22 lbs.
BWS-1211P	9/16" X 5/8"	9.5"	0.36 lbs.
BWS-1214P	11/16" X 3/4"	11.1"	0.48 lbs.
BWS-1216P	13/16" X 7/8"	13.0"	0.67 lbs.
BWS-1218P	15/16" X 1"	15.1"	1.08 lbs.

ASME B107.100



## 8 PIECE FLARE NUT WRENCH SET – STANDARD AND METRIC

- Weight: 2.28 lbs.
- Full Polished Finish

Item No.	Contents	Size
FN-8PTNB	FN-1402P	3/8" X 7/16"
	FN-1404P	1/2" X 9/16"
	FN-1406P	5/8" X 11/16"
	FN-1410P	3/4" X 1"
	FN-1012MP	10 mm X 12 mm
	FN-1314MP	13 mm X 14 mm
	FN-1517MP	15 mm X 17 mm
	FN-1921MP	19 mm X 21 mm



## 4 PIECE FLARE NUT WRENCH SET

- Weight: 1.11 lbs.
- Full Polished Finish

Item No.	Contents	Size
FN-4PTNB	FN-1402P	3/8" X 7/16"
	FN-1404P	1/2" X 9/16"
	FN-1406P	5/8" X 11/16"
	FN-1410P	3/4" X 1"



## 4 PIECE FLARE NUT WRENCH SET – METRIC

- Weight: 1.11 lbs.
- Full Polished Finish

Item No.	Contents	Size
FN-4MNB	FN-1012MP	10 mm X 12 mm
	FN-1314MP	13 mm X 14 mm
	FN-1517MP	15 mm X 17 mm
	FN-1921MP	19 mm X 21 mm



# Wrenches

## FLARE NUT WRENCH

• Full Polished Finish

Item No.	Size	Length	Weight
FN-1402P	3/8" X 7/16"	6.3"	0.17 lbs.
FN-1404P	1/2" X 9/16"	7.5"	0.26 lbs.
FN-1406P	5/8" X 11/16"	8.8"	0.41 lbs.
FN-1410P	3/4" X 1"	9.2"	0.50 lbs.

ASME B107.100



## FLARE NUT WRENCH – METRIC

• Full Polished Finish

Item No.	Size	Length	Weight
FN-911MP	9 X 11 mm	6.3"	0.12 lbs.
FN-1012MP	10 X 12 mm	6.9"	0.22 lbs.
FN-1314MP	13 X 14 mm	7.5"	0.26 lbs.
FN-1517MP	15 X 17 mm	8.1"	0.32 lbs.
FN-1921MP	19 X 21 mm	8.8"	0.49 lbs.

ASME B107.100



## AIR CONDITIONING WRENCH

Item No.	Size	Weight
ZW-1045A-A	1/4" and 3/16" Square Ratchet 1/2" and 9/16" Hex End	0.33 lbs.



## ADJUSTABLE WRENCH

Item No.	Size	Length	Weight
AW-1004-1	4"	4.3"	0.14 lbs.
AW-1006-1	6"	6.2"	0.29 lbs.
AW-1008-1	8"	8.3"	0.58 lbs.
AW-1010-1	10"	10.2"	1.11 lbs.
AW-1012-1	12"	12.3"	1.73 lbs.
AW-1015-1	15"	15"	2.85 lbs.

ASME B107.8M



## UNIVERSAL CHAIN WRENCH

Item No.	Length	Weight
AW-1351	13.2"	1.85 lbs.



Wrenches

# Wrenches

## RATCHETING MICROMETER ADJUSTABLE TORQUE WRENCHES

- Desired torque value is pre-selected by use of a micrometer type scale.
- When exact torque level is reached, wrench releases with an audible "click."
- Wrench resets automatically to same torque setting.
- Ball bearing-mounted release mechanism eliminates accuracy variations between slow and fast loading.
- Color-coded English and Metric markings.
- Positive locking mechanism helps prevent accidental changes in torque values.
- Comfortable, secure ergonomically designed grip.

Item No.	Torque Range		Drive Size	Increments		Length	Width	Height	Weight
	Foot Lbs	Newton Meters		Foot Lbs	Newton Meters				
39825-A	20-250*	3.61-29.03	3/8 "	1.0*	.11	13.4 "	1.6 "	1.4 "	1.89 lbs
34870-A	10-100	16.9-138.9	3/8 "	.5	.6	18.0 "	1.6 "	1.4 "	2.56 lbs
49859-A	20-150	33.9-210.1	1/2 "	1.0	1.4	20.8 "	1.6 "	1.6 "	2.96 lbs
49860A	25-250	43.4-384.4	1/2 "	1.0	1.4	20.8 "	1.6 "	1.7 "	3.84 lbs
49860ARK	Repair Kit for 49860A								

ASME B107.14M  
\* Measured in Inch lbs

Wrenches

