



TL-VP1B-PLM

Edition 5

March 2026

# Cordless Screwdriver and Nutrunner

QX Connect Series

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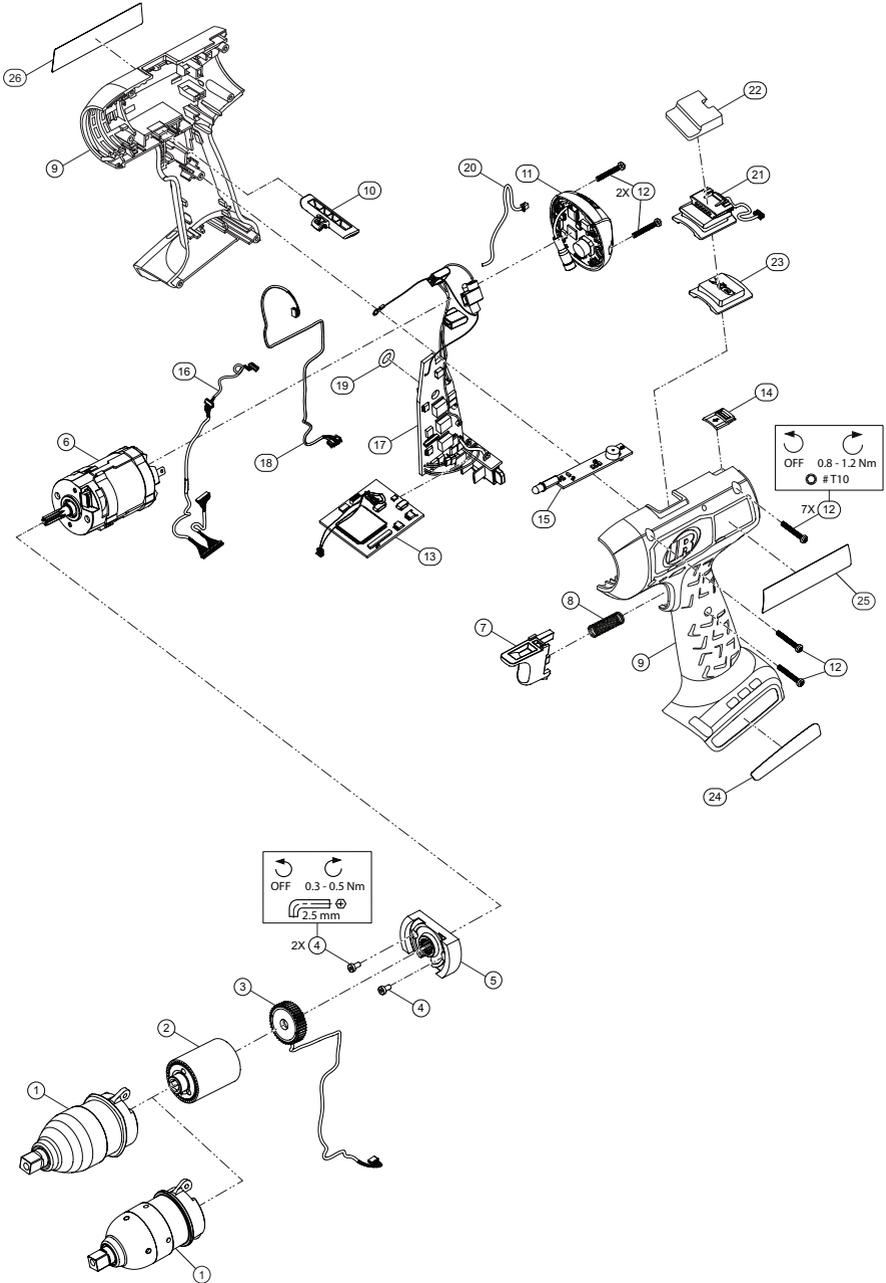
## Parts Information



Save These Instructions

**IR** Ingersoll Rand®

# QX{ }2P{ } Housing Assembly - Exploded View



(Dwg. TL-VP1B-PLM-1)

Use Lithium-based, electrical contact grease with no particles for all electrical connections.

## QX{ }2P{ } Housing Assembly - Parts List

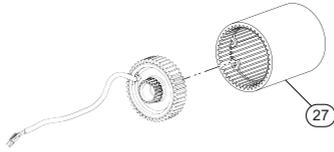
Item	Part Description	Part Number (CCN)
1	Gear Case Assembly, 1/4" Quick Change	VP1-A8-Q4 (47103320)
	Gear Case Assembly, 1/4" Square Drive	VP1-A8-S4 (47103312)
	Gear Case Assembly, 3/8" Square Drive	VP1-A8-S6 (47104179)
	Gear Case Assembly, 1/4" Quick Change (for EU models)	VP1-A8-AQ4
	Gear Case Assembly, 1/4" Square Drive (for EU models)	VP1-A8-AS4
	Gear Case Assembly, 3/8" Square Drive (for EU models)	VP1-A8-AS6
2	Gear Pack Assembly, QX{ }2PT004{ } Series	TA-VP1T-037-13P18
	Gear Pack Assembly, QX{ }2PT008{ } Series	TA-VP1T-037-17P1
	Gear Pack Assembly, QX{ }2PT012{ } Series	TA-VP1T-037-26P6
	Gear Pack Assembly, QX{ }2PT018{ } and QX{ }2PT024{ } Series	TA-VP1-2169-16C
***3	Transducer Assembly, QX{ }2PT004{ }, QX{ }2PT008{ }, and QX{ }2PT012{ } Series	TA-VP1B-756
	Transducer Assembly, QX{ }2PT018{ } and QX{ }2PT024{ } Series	TA-VP1B-756-18
4	Screw [M3 x 0.5], (2 required)	CPS2-667-735 (45589140)
5	Motor Mount	TP-VP1B-108
6	Motor Assembly	TA-VP1-054
7	Trigger Assembly	TP-VP1-A093RD
8	Spring	VP1-726 (47088356)
9	Handle Assembly, QXX2P{ }, QXB2P{ }, QXF2P{ }, QXW2P{ }P, and QXW2P{ }E Series	VP1-A59 (48394266)
	Handle Assembly, QXW2P{ }A and QXW2P{ }R Series	TA-VP1-059-2
10	Switch, Forward/Reverse Assembly	TP-VP1-A075RD
**11	Back Cap Assembly, QX{ }D2P{ } Series	See Pistol Back Cap Table
	Back Cap Assembly, QX{ }N2P{ } Series	
	Back Cap Assembly, QXWD2P{ } Series	
*	Keypad	TP-VA1-070RD
*	OLED Display	VP1-888-C (47526666)
12	Screw (9 required)	VP1-105 (47111778)
13	Motor Controller Board, 20 V QX{ }2PT004{ }, QX{ }2PT008{ }, QX{ }2PT012{ }, and QX{ }2PT018{ } Series	TA-VP1T-499-1
	Motor Controller Board, 40 V QX{ }2PT024{ } Series	TA-VA2T-499-1
14	USB Cover	TP-VP1-441RD
15	PCB, Trigger, and Forward/Reverse	84737-A499-5 (47101332)
16	Internal Interface Cable	84737-CABLE-1 (47106117)
17	Power Board Assembly, 20 V Pistol	TA-VP1B-499-3
18	Motor Hall Cable	84737-CABLE-2 (47106299)
19	O-Ring, PCB	VP1-282 (47104211)
20	Cable Assembly, QXW{ } Series	TA-VP1B-505-4
21	Accessory Buss Assembly, QX{ }2P{ }A and QX{ }2P{ }R Series	TA-VP1B-212-2
22	Cover, Accessory Buss, QX{ }2P{ }A and QX{ }2P{ }R Series	TP-VP1-144-1
23	Plate, Blanking	TP-VP1-485-2
24	Tool Foot Label, QX{ }2P{ }P{ } Series	TL-VP1T-099-3
	Tool Foot Label, QX{ }2P{ }E{ } Series	TL-VP1T-099-4
	Tool Foot Label, QX{ }2P{ }V{ } Series	TL-VP1T-099-1
	Tool Foot Label, QX{ }2P{ }H{ } Series	TL-VP1T-099-2
	Tool Foot Label, QXWD2P{ }P and QXWD2P{ }A Series	TL-VP1T-099-5
	Tool Foot Label, QXWD2P{ }E and QXWD2P{ }R Series	TL-VP1T-099-6
25	Name Plate Label, QXX2P{ }, QXB2P{ }, QXF2P{ }, QXW2P{ }P, and QXW2P{ }E Series	TL-VP1T-301-P
26	Warning Label, QXX2P{ }, QXB2P{ }, QXF2P{ }, QXW2P{ }P, and QXW2P{ }E Series	TL-VP1T-099-P
*	IR # 69 Grease	VP1-1LB (48413157)

\* Indicates not illustrated.

\*\* Contact an **Ingersoll Rand** certified Service Center or your distributor to program this tool. All display assemblies are shipped in default mode and need to be programmed before use.

\*\*\* The new splined Transducer Assemblies (TA-VP1B-756 and TA-VP1B-756-18) are compatible only with the new Ring Gear featuring through-splines. If the tool is equipped with the previous generation Ring Gear, which uses two locking tabs, a separate Service Kit (TK-VP1-DRK) is required for proper installation and operation of the new splined Transducer Assembly. Refer to Service Kit Drawing TL-VP1B-PLM-18 and Parts List Table on page 4.

## Service Kit - Drawing



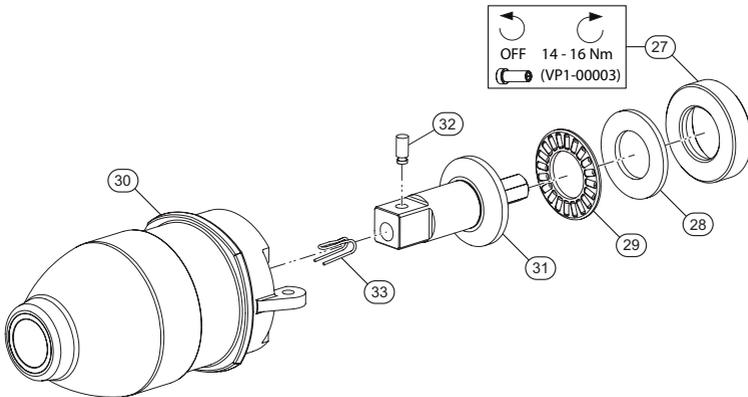
(Dwg. TL-VP1B-PLM-18)

## Service Kit - Parts List

Item	Part Description	Part Number (CCN)
27	Service Kit, Gear Pack	TK-VP1-DRK
*	Ring Gear	TP-VP1B-406
	Retaining Ring	W22-118 (03081007)

\* Indicates not illustrated.

## VP1-A8-S6 3/8" Square Gear Case Assembly QX{ }2PT{ }S06 Series - Exploded View

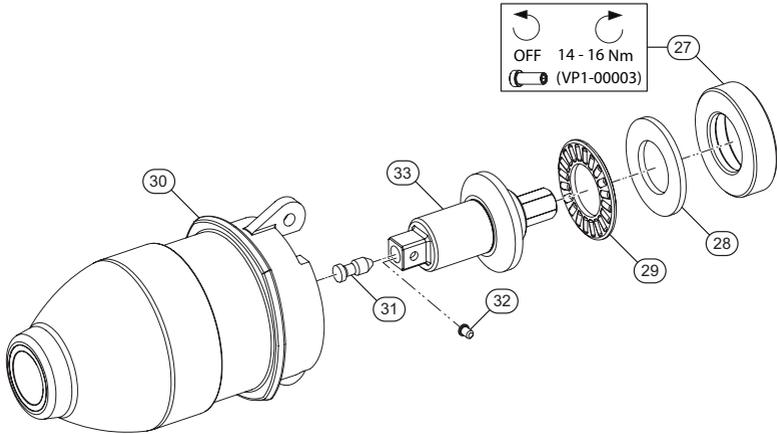


(Dwg. TL-VP1B-PLM-2)

## VP1-A8-S6 3/8" Square Gear Case Assembly QX{ }2PT{ }S06 Series - Parts List

Item	Part Description	Part Number (CCN)
27	Nut	VP1-305 (47112230)
28	Thrust Washer	DAA6A-107 (04694006)
29	Thrust Bearing	R1610-105 (03119559)
30	Gear Housing Assembly	TA-VP1B-40
31	Spindle, 3/8" Square	TP-VP1B-807-S6
32	Retainer	5020-716 (03046679)
33	Spring	401-718 (03060993)

**VP1-A8-S4 1/4" Square Gear Case Assembly QX{ }2PT{ }S04 Series - Exploded View**

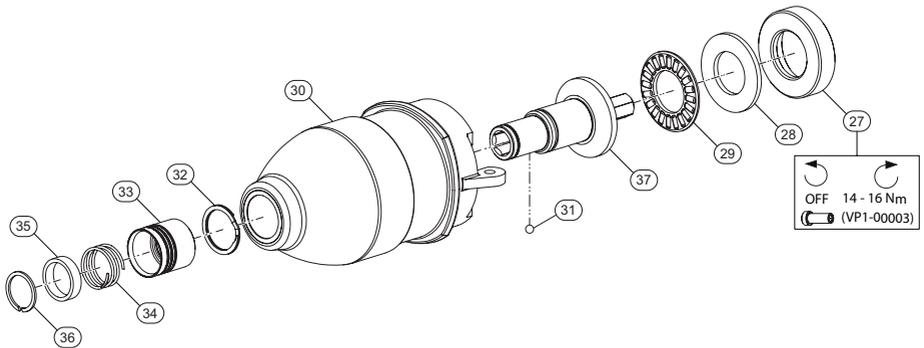


(Dwg. TL-VP1B-PLM-3)

**VP1-A8-S4 1/4" Square Gear Case Assembly QX{ }2PT{ }S04 Series - Parts List**

Item	Part Description	Part Number (CCN)
27	Nut	VP1-305 (47112230)
28	Thrust Washer	DAA6A-107 (04694006)
29	Thrust Bearing	R1610-105 (03119559)
30	Gear Housing Assembly	TA-VP1B-40
31	Pin	47028 (04130266)
32	Insert (rubber)	46749 (04124632)
33	Spindle, 1/4" Square	TP-VP1B-807-54

**VP1-A8-Q4 Quick Change Gear Case Assembly QX{ }2PT{ }04 Series - Exploded View**

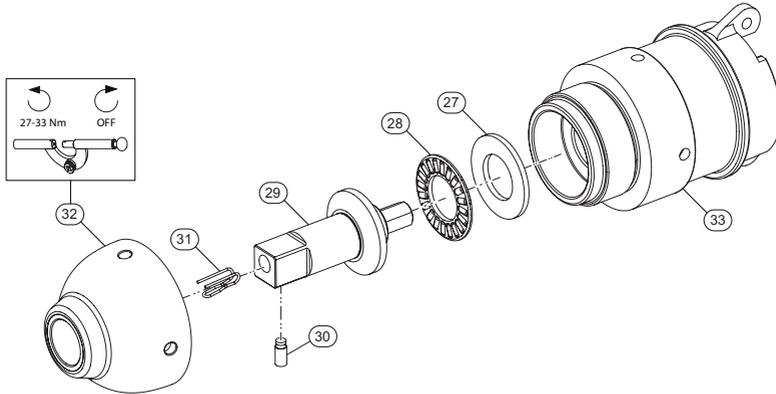


(Dwg. TL-VP1B-PLM-4)

## VP1-A8-Q4 Quick Change Gear Case Assembly QX{ }2PT{ }04 Series - Parts List

Item	Part Description	Part Number (CCN)
27	Nut	VP1-305 (47112230)
28	Thrust Washer	DAA6A-107 (04694006)
29	Thrust Bearing	R1610-105 (03119559)
30	Gear Housing Assembly	TA-VP1B-40
31	Ball	R000B-263 (03095031)
32	Multi Turn Snap Ring	182A13CXRSN50 (95994521)
33	Collar, Quick Change	CPS2-930 (45551827)
34	Spring	TRH-931 (04681615)
35	Spacer, Quick Change	CPS2-244 (45555125)
36	Retaining Ring	VP1-118 (47512717)
37	Spindle, Quick Connect	TP-VP1B-807-Q4

## VP1-A8-AS6 3/8" Square Gear Case Assembly QX{ }2PT{ }S06-EU Series - Exploded View

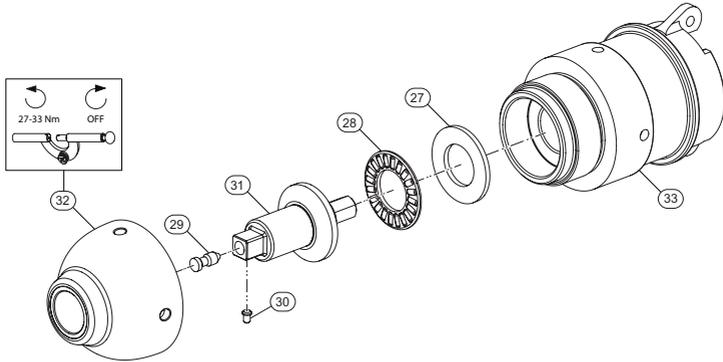


(Dwg. TL-VP1B-PLM-5)

## VP1-A8-AS6 3/8" Square Gear Case Assembly QX{ }2PT{ }S06-EU Series - Parts List

Item	Part Description	Part Number (CCN)
27	Thrust Washer	DAA6A-107 (04694006)
28	Thrust Bearing	R1610-105 (03119559)
29	Spindle, Square 3/8"	TP-VP1B-807-S6
30	Retainer	5020-716 (03046679)
31	Spring	401-718 (03060993)
32	Nose Piece Assembly	TA-VP1T-531-2
33	Gear Case	TP-VP1-037-2

**VP1-A8-AS4 1/4" Square Gear Case Assembly QX{ }2PT{ }S04-EU Series - Exploded View**

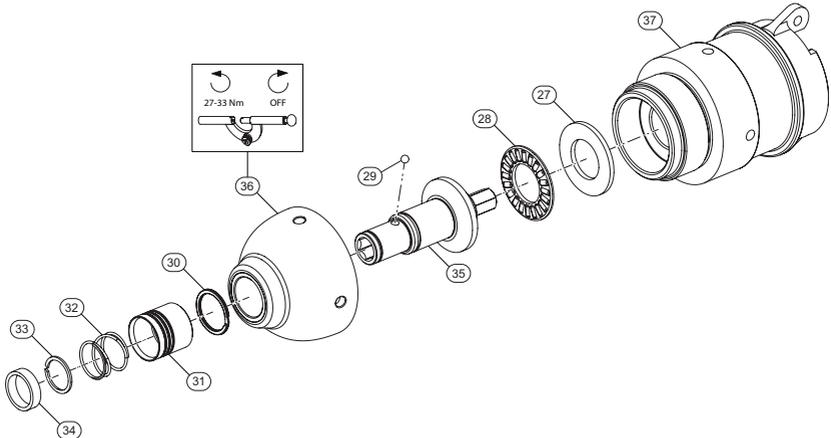


(Dwg. TL-VP1B-PLM-6)

**VP1-A8-AS4 1/4" Square Gear Case Assembly QX{ }2PT{ }S04-EU Series - Parts List**

Item	Part Description	Part Number (CCN)
27	Thrust Washer	DAA6A-107 (04694006)
28	Thrust Bearing	R1610-105 (03119559)
29	Insert (rubber)	46749 (04124632)
30	Pin	47028 (04130266)
31	Spindle, 1/4" Square	TP-VP1B-807-54
32	Nose Piece Assembly	TA-VP1T-531-2
33	Gear Case	TP-VP1-037-2

**VP1-A8-AQ4 Quick Change Gear Case Assembly QX{ }2PT{ }Q04-EU Series - Exploded View**

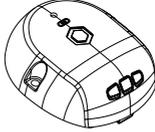


(Dwg. TL-VP1B-PLM-7)

## VP1-A8-AQ4 Quick Change Gear Case Assembly QX{ }2PT{ }Q04-EU Series - Parts List

Item	Part Description	Part Number (CCN)
27	Thrust Washer	DAA6A-107 (04694006)
28	Thrust Bearing	R1610-105 (03119559)
29	Ball	R000B-263 (03095031)
30	Multi Turn Snap Ring	182A13CXRSN50 (95994521)
31	Collar, Quick Change	CPS2-930 (45551827)
32	Spring	TRH-931 (04681615)
33	Retaining Ring	VP1-118 (47512717)
34	Spacer, Quick Change	CPS2-244 (45555125)
35	Spindle Quick Connect	TP-VP1B-807-Q4
36	Nose Piece Assembly	TA-VP1T-531-2
37	Gear Case	TP-VP1-037-2

## Back Cap Assembly – 20 V Pistol - Parts List

Model Type	Part Number	Model Type	Part Number
QXXD2PT000P000	TA-VP1T-888-2D	QXXN2PT000P000	TA-VP1T-888-2N
QXXD2PT000E000		QXXN2PT000E000	
QXBD2PT000P000		QXBN2PT000P000	
QXBD2PT000E000		QXBN2PT000E000	
QXFD2PT000P000		QXFN2PT000P000	
QXFD2PT000E000		QXFN2PT000E000	
QXWD2PT000A000*	TA-VP1W-888-W2D	---	---
QXWD2PT000R000**		---	---
			

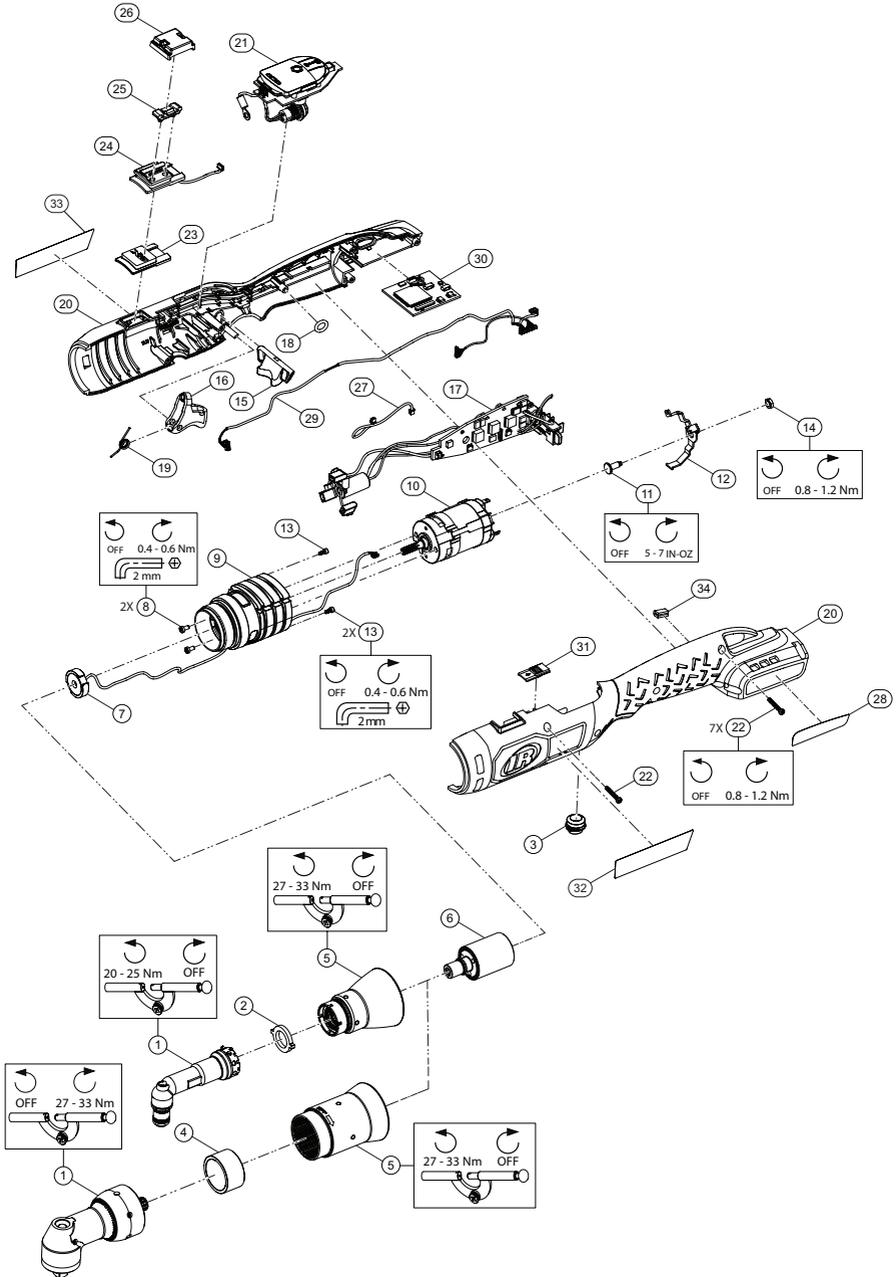
\* For QXW2P{ }P and QXW2P{ }A Series.

\*\* For QXW2P{ }E and QXW2P{ }R Series.

## Suggested Tools

Tool Used	Part Description	Application
Torque Screwdriver	2 Nm (1.5 lb-ft) Capacity	Housing and Motor Mount Screws
T10 Torx Bit	---	Housing Screws
Allen Wrench	2 mm (0.08 in.)	Motor Mount Screws
Nylon Pick	---	O-Rings, Wires, etc.
Torque Wrench	3/8" Square Drive, 20 Nm (14.8 lb-ft) Capacity	Gear Case Housing Nut
Bearing Nut Tool	IR Part # VP1-00003 (47128921)	Gear Case Housing Nut

# QX{ }2A{ } Housing Assembly - Exploded View



(Dwg. TL-VP1B-PLM-8)

Use Lithium-based, electrical contact grease with no particles for all electrical connections.

TL-VP1B-PLM\_ed5

## QX{ }2A{ } Housing Assembly - Parts List

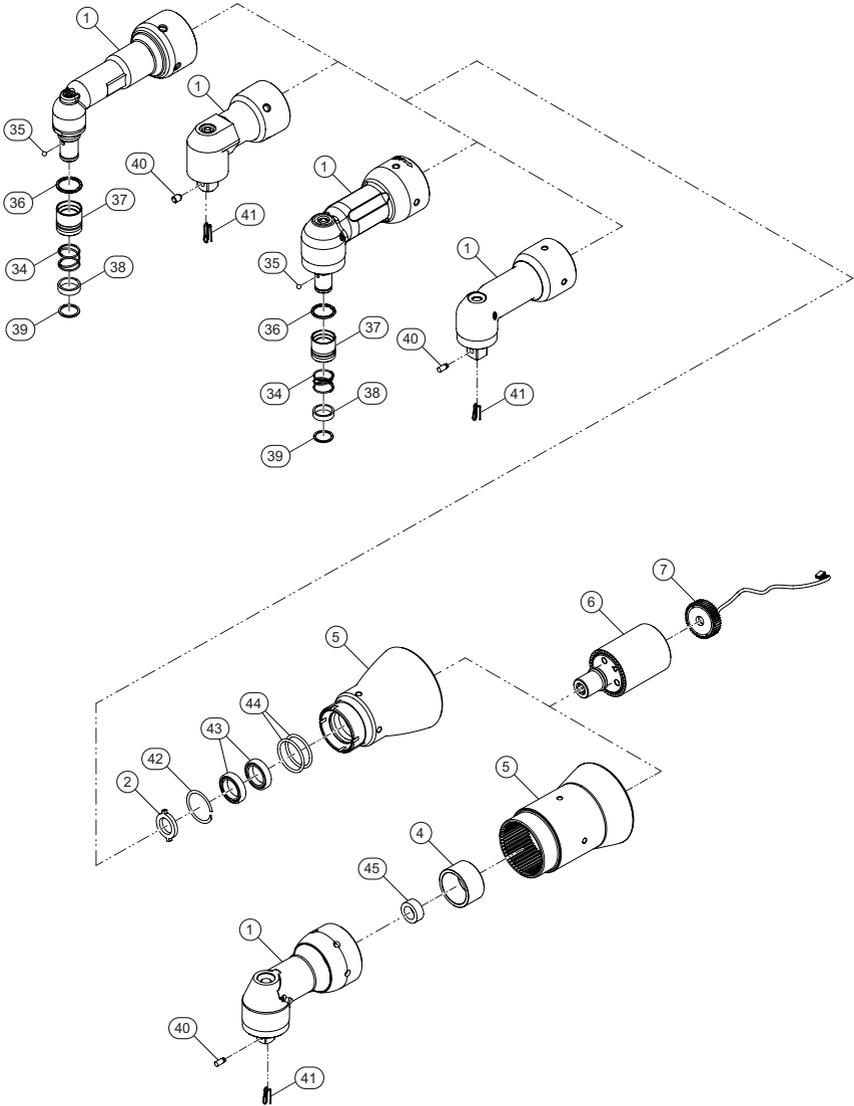
Table 1

Item	Part Description	Part Number (CCN)	Item	Part Description	Part Number (CCN)	
1	Angle Head Assembly	See Table 2	22	Screw (7 required)	VP1-105 (47111778)	
2	Lock Spacer		23	Plate, Blanking	TP-VA1-485-2	
3	Plug, Forward/Reverse Blank	VA1-556 (47522589001)	24	Accessory Buss Assembly	TA-VA1B-212-2	
4	Spacer	See Table 2	25	Clip, Scanner	TP-VP1-057-2	
5	Gear Case Assembly		26	Cover, Accessory Buss	TP-VP1-144-2	
6	Gear Pack Assembly		27	Cable Assembly, QXW{ } Series	TA-VP1B-505-4	
7	Transducer Assembly		28	Tool Foot Label, QX{ }2A{ }JP	TL-VP1T-099-3	
8	Screw (2 required)			CPS2-667-735 (45589140)	Tool Foot Label, QX{ }2A{ }JE	TL-VP1T-099-4
9	Motor Mount Assembly			VA1-A40Y (47510751001)	Tool Foot Label, QX{ }2A{ }JV	TL-VP1T-099-1
10	Motor Assembly			TA-VP1-054	Tool Foot Label, QX{ }2A{ }JH	TL-VP1T-099-2
11	Screw, Grub	VA1-78 (47507397001)		Tool Foot Label, QXWD2A{ }JP and QXWD2A{ }JA	TL-VP1T-099-5	
12	Motor Mount Support	VA1-A28 (47504028001)	Tool Foot Label, QXWD2A{ }JE and QXWD2A{ }JR	TL-VP1T-099-6		
13	Screw (2 required)	(4751446001)	29	Internal Interface Cable	VA1-505 (24471336)	
14	Hex, Nut	19M4J57M3 (45638756)	30	Motor Control Board	TA-VP1T-499-1	
15	Button, Forward/Reverse	TP-VA1-075RD	31	USB Cover	TP-VA1-441RD	
16	Trigger Assembly	TP-VA1-A093RD	32	Name Plate Label, QXX2A{ }, QXB2A{ }, QXF2A{ }, QXW2A{ }JP, and QXW2A{ }JE Series	TL-VA1T-301-P	
17	Power Board Assembly	TA-VA1B-499-3				
18	O-Ring, PCB	VP1-282 (47104211)	33	Warning Label, QXX2A{ }, QXB2A{ }, QXF2A{ }, QXW2A{ }JP, and QXW2A{ }JE Series	TL-VA1T-099-P	
19	Spring	VA1-726 (24362386)				
20	Housing Assembly QXX2A{ }, QXB2A{ }, QXF2A{ }, QXW2A{ }JP, and QXW2A{ }JE Series	VA1-A59 (47507311001)	34	Bumper, QX{ }2A{ }JP and QX{ }2A{ }JE	TP-VA1-203	
	Housing Assembly QXW2A{ }JA and QXW2A{ }JR Series	TA-VA1-059-2				
**21	Back Cap Assembly, QX{ }D2A{ }	See 20 V Angle Back Cap Table	*	IR # 69 Grease, 1 lb	VP1-1LB (48413157)	
	Back Cap Assembly, QX{ }N2A{ }		*	IR # 67 Grease, 4 oz	67-4T (04637336)	
	Back Cap Assembly, QXWD2A{ }		*	IR # 67 Grease, 1 lb	67-1LB	
*	Keypad	TP-VA1-070RD	*	IR # 67 Grease, 8 lb	67-8LB	
*	OLED Display	VP1-888-C (47526666)	*	Grease Tube Head (for QX Angle tools. Use with 4 oz Grease Tube.)	GTH-1 (04616124)	

\* Indicates not illustrated.

\*\* Contact an **Ingersoll Rand** certified Service Center or your distributor to program this tool. All display assemblies are shipped in default mode and need to be programmed before use.

**QX{ }2A Attachment Components - Exploded View**



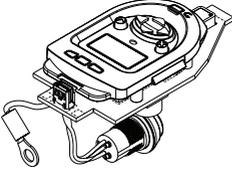
(Dwg. TL-VP1B-PLM-9)

**QX{ }2A Attachment Components - Parts List**

**Table 2**

Item	Part Description	Part Number (CCN)					
		QX{ }2A{ }027{ }S06	QX{ }2A{ }018{ }Q04	QX{ }2A{ }018{ }S06	QX{ }2A{ }015{ }S06	QX{ }2A{ }010{ }S06	QX{ }2A{ }005{ }Q04
1	Angle Head Assembly	GAA456K (47524190001)	CPS3Q4 (45601457)	CPS3S6 (45601432)	QAS-25-A550 (47152582)	QAS-25-A550 (47152582)	QAS-18-A550-SQ4 (48617062)
2	Lock Spacer	---	CPS3-682 (45592193)	CPS3-682 (45592193)	QAS-682 (47151170)	QAS-682 (47151170)	QAS-682 (47151170)
4	Spacer	VA1-80 (47515640001)	---	---	---	---	---
5	Gear Case Assembly	VA1-180-AL (47516176001)	VA1-A37-CP (24509523)	VA1-A37-CP (24509523)	VA1-A37-RS (24627010)	VA1-A37-RS (24627010)	VA1-A37-RS (24627010)
6	Gear Pack Assembly	TA-VA1T-037-39P7	TA-VA1T-037-26P6	TA-VA1T-037-26P6	TA-VA1T-037-26P6	TA-VA1T-037-17P1	TA-VA1T-037-13P18
7	Transducer Assembly	VA1-A756-27 (47515475001)	VA1-A756 (24358798)	VA1-A756 (24358798)	VA1-A756 (24358798)	VA1-A756 (24358798)	VA1-A756 (24358798)
34	Bit Retaining Spring	---	TRH-931 (04681615)	---	---	---	TRH-931 (04681615)
35	Bit Retaining Ball	---	R000B-263 (03095031)	---	---	---	R000B-263 (03095031)
36	Multi Turn Snap Ring	---	182A13CXRSN50 (95994521)	---	---	---	182A13CXRSN50 (95994521)
37	Collar, Quick Change	---	CPS2-930 (45551827)	---	---	---	CPS2-930 (45551827)
38	Spacer, Quick Change	---	CPS2-244 (45555125)	---	---	---	CPS2-244 (45555125)
39	Retaining Ring	---	VP1-118 (47512717)	---	---	---	VP1-118 (47512717)
40	Socket Retaining Pin	5020-716 (03046679)	---	5020-716 (03046679)	5020-716 (03046679)	5020-716 (03046679)	---
41	Socket Retaining Spring	401-718 (03060993)	---	401-718 (03060993)	401-718 (03060993)	401-718 (03060993)	---
42	Retaining Ring	---	184A13CXUR81 (96955059)	184A13CXUR81 (96955059)	184A13CXUR81 (96955059)	184A13CXUR81 (96955059)	184A13CXUR81 (96955059)
43	Bearing Spindle (2 required)	---	CPS2-22 (45552809)	CPS2-22 (45552809)	CPS2-22 (45552809)	CPS2-22 (45552809)	CPS2-22 (45552809)
44	O-Ring (2 required)	---	20A11CMC018 (96955042)	20A11CMC018 (96955042)	20A11CMC018 (96955042)	20A11CMC018 (96955042)	20A11CMC018 (96955042)
45	Spacer	GEA40-591 (80119605)	---	---	---	---	---

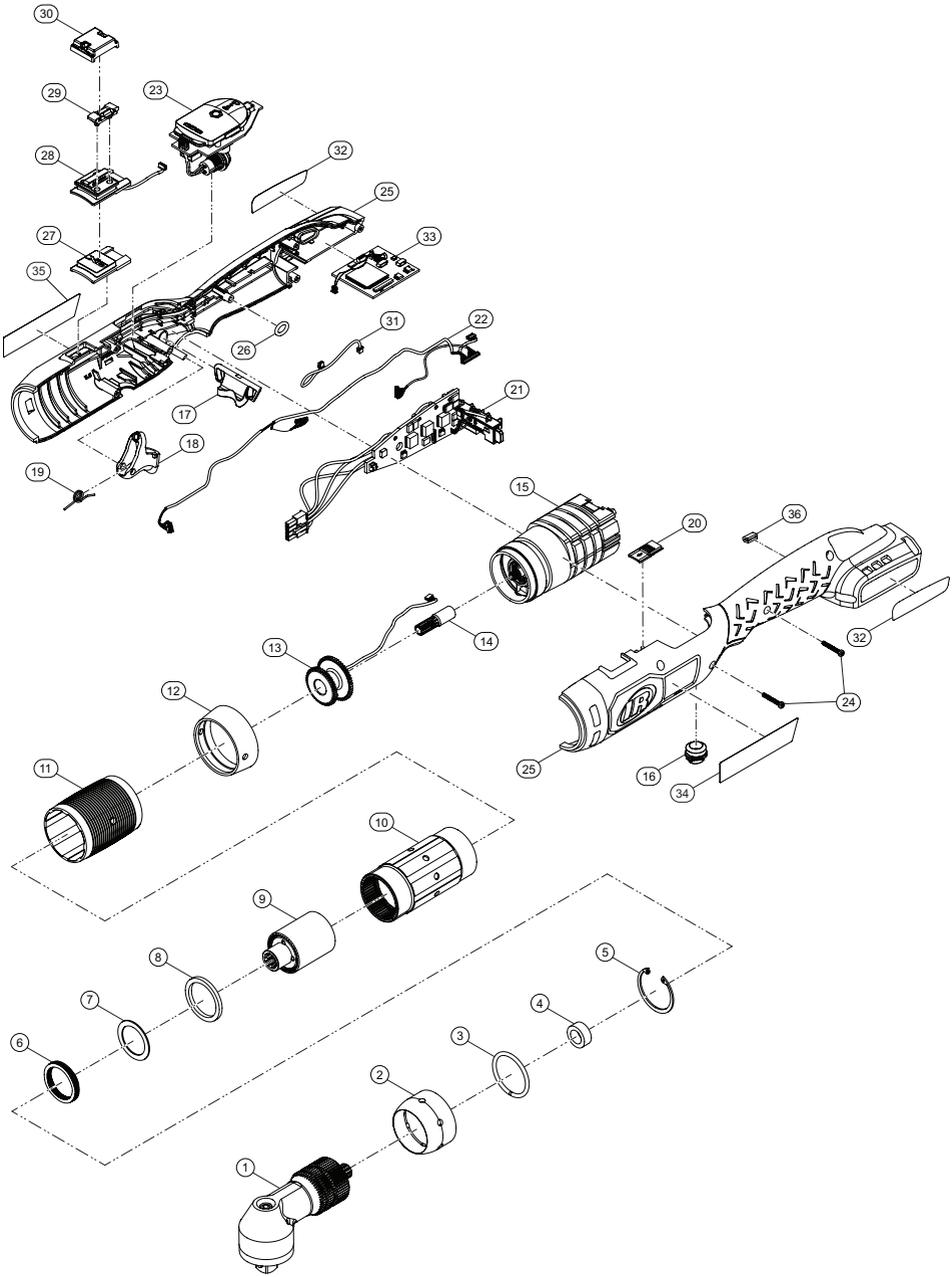
## Back Cap Assembly - 20 V Angle - Parts List

Model Type	Part Number	Model Type	Part Number
QXXD2AT000P000	TA-VA1T-888-2D	QXXN2AT000P000	TA-VA1T-888-2N
QXXD2AT000E000		QXXN2AT000E000	
QXBD2AT000P000		QXBN2AT000P000	
QXBD2AT000E000		QXBN2AT000E000	
QXFD2AT000P000		QXFN2AT000P000	
QXFD2AT000E000		QXFN2AT000E000	
QXWD2AT000A000*		TA-VA1W-888-W2D	
QXWD2AT000R000**	---		---
			

\* For QXW2A{ }P and QXW2A{ }A Series.

\*\* For QXW2A{ }E and QXW2A{ }R Series.

# QX{ }5A{ } Housing Assembly - Exploded View



(Dwg. TL-VP1B-PLM-10)

Use Lithium-based, electrical contact grease with no particles for all electrical connections.

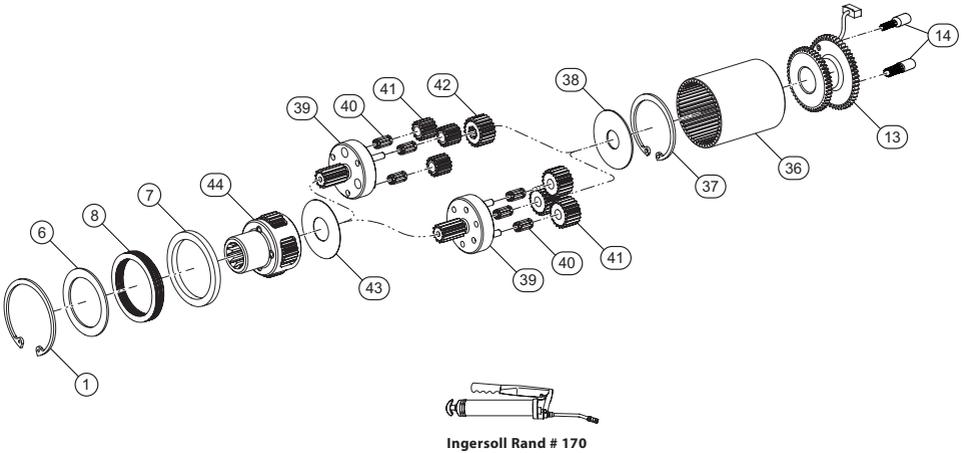
## QX{ }5A{ } Housing Assembly - Parts List

Item	Part Description	Part Number (CCN)	Item	Part Description	Part Number (CCN)
1	Angle Head Assembly, QX{ }5A{ }020 and QX{ }5A{ }030	GAA2S6-H (47527606001)	*	Keypad	TP-VA1-070RD
	Angle Head Assembly, QX{ }5A{ }035{ }508	GAA4S8-H (47527607001)	*	OLED Display	VP1-888-C (47526666)
	Angle Head Assembly, QX{ }5A{ }035{ }506	GAA4S6-H (47527608001)	24	Screw (7 required)	VP1-105 (47111778)
	Angle Head Assembly, QX{ }5A{ }040 and QX{ }5A{ }080	GAA5S8-H (47527609001)	25	Housing Assembly QXX5A{ }, QXB5A{ }, QXF5A{ }, QXW5A{ }P, and QXW5A{ }E Series	VA2-A59 (47518205001)
		Housing Assembly QXW5A{ }JA and QXW5A{ }R Series		TA-VA2-059-2	
2	Coupling Nut	GEA40-27 (22041180)	26	O-Ring, PCB	VP1-282 (47104211)
3	Coupling Nut Retainer	DAA4-29 (04341368)	27	Plate, Blanking	TP-VA2-485-2
4	Spacer	GEA40-591 (80119605)	28	Accessory Buss Assembly	TA-VA2B-212-2
5	Retaining Ring	W64-118 (03084266)	29	Clip, Scanner	TP-VP1-057-2
6	WSHR-Gear Retainer	DEM40-81 (04569752)	30	Cover, Accessory Buss	TP-VP1-144-2
7	Seal, Grease	GEA40-248 (80106958)	31	Cable Assembly, QXW{ } Series	TA-VP1B-505-4
8	Spring, Wave (1.375 O.D)	GEA40-250 (80106982)			
9	Gear Pack Assembly, QX{ }5A{ }020	GEA40-17-M37 (22038186)	32	Tool Foot Label, QX{ }5A{ }JV	TL-VP1T-099-1
	Gear Pack Assembly, QX{ }5A{ }030	GEA40-22-M37 (22038178)		Tool Foot Label, QX{ }5A{ }JH	TL-VP1T-099-2
	Gear Pack Assembly, QX{ }5A{ }035 and QX{ }5A{ }040	GEA40-28-M37 (22038160)		Tool Foot Label, QX{ }5A{ }JP	TL-VP1T-099-3
	Gear Pack Assembly, QX{ }5A{ }080	GEA40-40-M37 (22036503)		Tool Foot Label, QX{ }5A{ }JE	TL-VP1T-099-4
		Tool Foot Label, QXWD5A{ }P and QXWD5A{ }A Series		TL-VP1T-099-5	
10	Gear Case Viper HT	---		Tool Foot Label, QXWD5A{ }E and QXWD5A{ }R Series	TL-VP1T-099-6
11	Sleeve, Gear Case	VA2-145 (47511179001)	33	Motor Controller Board	TA-VA2T-499-1
12	Cover, Motor Mount	VA2-427 (47511904001)	34	Name Plate Label, QXX5A{ }, QXB5A{ }, QXF5A{ }, QXW5A{ }P, and QXW5A{ }E Series	TL-VA1T-301-P
13	Transducer Assembly	VA2-A756 (47518495001)			
*	K7 Motor Assembly, { }20PS06, { }30PS06, { }30PS08, { }60PS08, and { }80PS08	VA2-K53-7 (47539541001)	35	Warning Label, QXX5A{ }, QXB5A{ }, QXF5A{ }, QXW5A{ }P, and QXW5A{ }E Series	TL-VA1T-099-P
	K11 Motor Assembly, { }35PS06, { }35PS08, and { }40PS08	VA2-K53-11 (47539540001)	36	Bumper, QX{ }5A{ }JP and QX{ }5A{ }JE	TP-VA1-203
14	Pinion	---	*	IR # 67 Grease, 4 oz	67-4T
15	Motor Assembly	---	*	IR # 67 Grease, 1 lb	67-1LB
16	Plug, Forward/Reverse Blank	VA1-556 (47522589001)	*	IR # 67 Grease, 8 lb	67-8LB
17	Button Forward/Reverse Assembly	TP-VA1-075RD	*	Grease Tube Head (for QX{ }5A{ } Angle Tools. Use with 4 oz Grease Tube.)	GTH-1
18	Trigger Assembly	TP-VA1-093RD			
19	Spring, Torsional	VA1-726 (24362386)	*	IR # 170 Grease, 1 lb	170-1LB
20	USB Cover	TP-VA1-441RD	*	IR # 170 Grease, 8 lb	170-8LB
21	Power Board Assembly	TA-VA2B-499-3			
22	Internal Interface Cable	VA1-505 (24471336)			
**23	Back Cap Assembly, QX{ }J5A{ }	See 40 V Angle Back Cap Table			
	Back Cap Assembly, QX{ }N5A{ }				
	Back Cap Assembly, QXWD5A{ }				

\* Indicates not illustrated.

\*\* Contact an **Ingersoll Rand** certified Service Center or your distributor to program this tool. All display assemblies are shipped in default mode and need to be programmed before use.

## QX{ }5A Transducer Assembly and Gearing Components - Exploded View



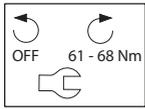
(Dwg. TL-VP1B-PLM-11)

## QX{ }5A Transducer Assembly and Gearing Components - Parts List

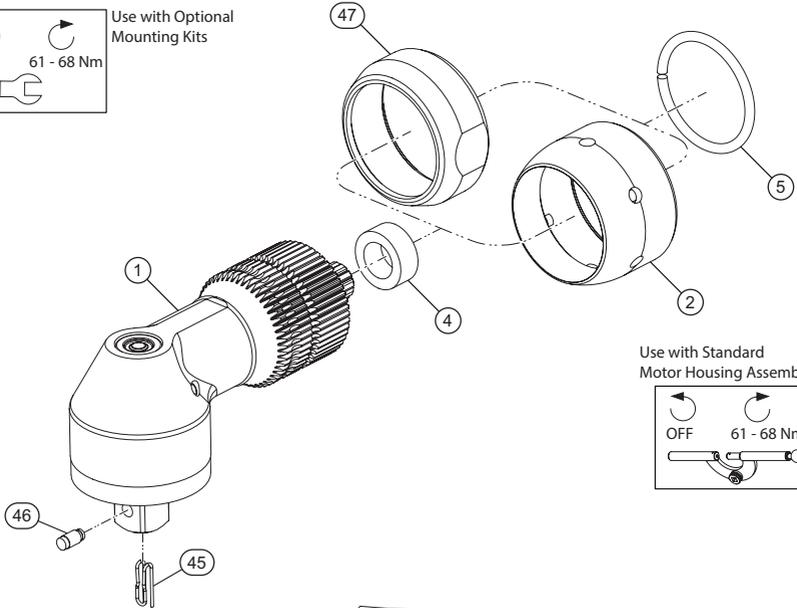
Item	Part Description	Part Number (CCN)			
		QX{ }60P508 and QX{ }80P508	QX{ }40P508, QX{ }35P508, and QX{ }35P506	QX{ }30P508 and QX{ }30P506	QX{ }20P506
14	Pinion	---	---	---	---
13	Transducer Assembly	VA2-A756 (47518495001)	VA2-A756 (47518495001)	VA2-A756 (47518495001)	VA2-A756 (47518495001)
	Gear Pack Assembly	GEA40-40-M37 (22036503)	GEA40-28-M37 (22038160)	GEA40-22-M37 (22038178)	GEA40-17-M37 (22038186)
36	Ring Gear	GEA40-406 (22038079)	GEA40-406 (22038079)	GEA40-406 (22038079)	GEA40-406 (22038079)
37	Retaining Ring	4E-118 (03079738)	4E-118 (03079738)	4E-118 (03079738)	4E-118 (03079738)
38	Spacer, Rear	GEA40-81 (22036495)	GEA40-81 (22036495)	GEA40-81 (22036495)	GEA40-81 (22036495)
39	Gearhead Assembly (1st stage)	GEA40-A216-20 (22038004)	GEA40-A216-19 (80096126)	GEA40-A216-17 (80096142)	GEA40-A216-14 (80096050)
*	Gearhead	---	---	---	---
*	Planet Pin	---	---	---	---
40	Needle Bearing (1st) (3 required)	6WTM-500 (03800299)	DAA40-500 (04008108)	6WTM-500 (03800299)	6WTM-500 (03800299)
41	Planet Gear (1st) (3 required)	4RL1-10 (03822962)	DEA31-10 (04282158)	4RLN-10 (03822988)	GEA40-10-14 (80098064)
42	Sun Gear (1st)	---	---	DAA25-17 (04008140)	GEA40-17-21 (22039317)
43	Spacer	GEA40-80 (22041883)	GEA40-80 (22041883)	GEA40-80 (22041883)	GEA40-80 (22041883)
44	Spindle Assembly (2nd stage)	GEA40-A8-18 (22038145)	GEA40-A8-18 (22038145)	GEA40-A8-18 (22038145)	GEA40-A8-18 (22038145)
*	Spindle	---	---	---	---
*	Planet Pin	---	---	---	---
*	Planet Gear (2nd)	---	---	---	---
*	Planet Bearing (2nd)	---	---	---	---
7	Grease Seal	GEA40-248 (80106958)	GEA40-248 (80106958)	GEA40-248 (80106958)	GEA40-248 (80106958)
8	Wave Spring	GEA40-250 (80106982)	GEA40-250 (80106982)	GEA40-250 (80106982)	GEA40-250 (80106982)
6	Retainer Washer	DEM40-81 (04569752)	DEM40-81 (04569752)	DEM40-81 (04569752)	DEM40-81 (04569752)
1	Retaining Ring	W64-118 (03084266)	W64-118 (03084266)	W64-118 (03084266)	W64-118 (03084266)

\* Item included as part of sub-assembly.

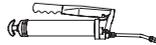
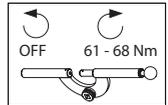
## QX{ }5A Angle Assembly Attachment - Exploded View



Use with Optional  
Mounting Kits



Use with Standard  
Motor Housing Assemblies



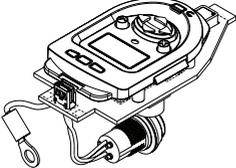
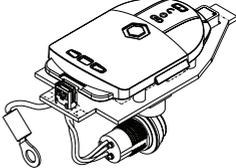
Ingersoll Rand # 67

(Dwg. TL-VP1B-PLM-12)

## QX{ }5A Angle Head Assembly - Parts List

Item	Part Description	Part Number (CCN)			
		QX{ }80P508, QX{ }60P508, and QX{ }40P508	QX{ }35P508 and QX{ }30P508	QX{ }35P506	QX{ }20P506 and QX{ }30P506
1	Angle Assembly Attachment	GAA558-H (47527609001)	GAA458-H (47527607001)	GAA456-H (47527608001)	GAA256-H (47527606001)
45	Socket, Retaining Spring	5UHD-718 (03072766)	5UHD-718 (03072766)	401-718 (03060993)	401-718 (03060993)
46	Socket, Retaining Pin	804-716 (03064201)	804-716 (03064201)	5020-716 (03046679)	5020-716 (03046679)
4	Spacer	GEA40-591 (80119605)	GEA40-591 (80119605)	GEA40-591 (80119605)	GEA40-591 (80119605)
2	Coupling Nut, Long (with holes)	GEA40-27 (22041180)	GEA40-27 (22041180)	GEA40-27 (22041180)	GEA40-27 (22041180)
47	Coupling Nut, Short (with flats)	DAA4-27 (04341285)	DAA4-27 (04341285)	DAA4-27 (04341285)	DAA4-27 (04341285)
5	Retainer	DAA4-29 (04341368)	DAA4-29 (04341368)	DAA4-29 (04341368)	DAA4-29 (04341368)

## Back Cap Assembly - 40 V Angle - Parts List

Model Type	Part Number	Model Type	Part Number
QXXD5AT000P000	TA-VA2T-888-2D	QXXN5AT000P000	TA-VA2T-888-2N
QXXD5AT000E000		QXXN5AT000E000	
QXBD5AT000P000		QXBN5AT000P000	
QXBD5AT000E000		QXBN5AT000E000	
QXFD5AT000P000		QXFN5AT000P000	
QXFD5AT000E000		QXFN5AT000E000	
QXWD5AT000A000*		TA-VA2W-888-W2D	
QXWD5AT000R000**	---		---
			

\* For QXW5A{ }P and QXW5A{ }A Series.

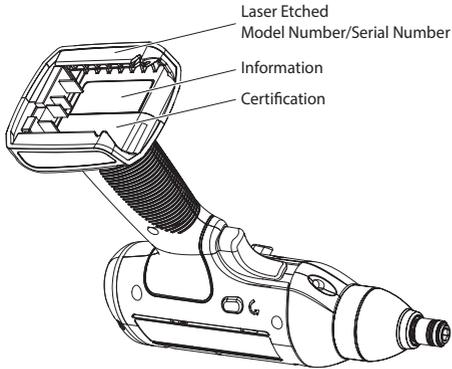
\*\* For QXW5A{ }E and QXW5A{ }R Series.

## QX{ }5A Suggested Tools

Tool Used	Part Description	Application
Spanner Wrench	IR Part # GEA40-478 (80114440)	Coupling Nut
Torque Wrench	1/2" Square Drive, 50 ft-lb (67.8 Nm) Capacity	General Use
Adjustable Wrench	---	Coupling Nut (with flats)
Internal Snap Ring Pliers	---	General Use
Pick	---	O-Rings, Wires, etc.
T10 Torx Bit	---	Housing Screws

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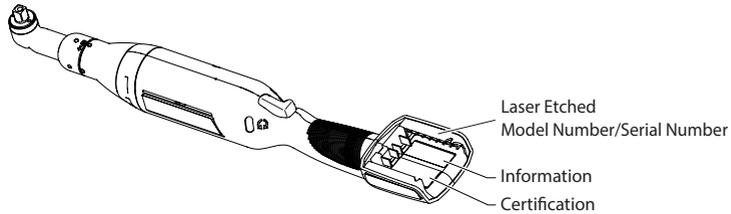
### QX{ }2P - Tool Assembly - Drawing



(Dwg. TL-VP1B-PLM-13)

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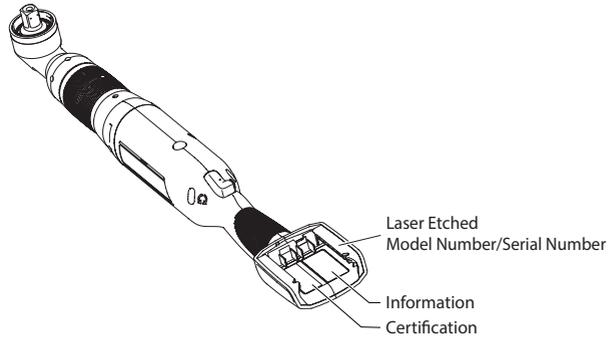
### QX{ }2A - Tool Assembly - Drawing



(Dwg. TL-VP1B-PLM-14)

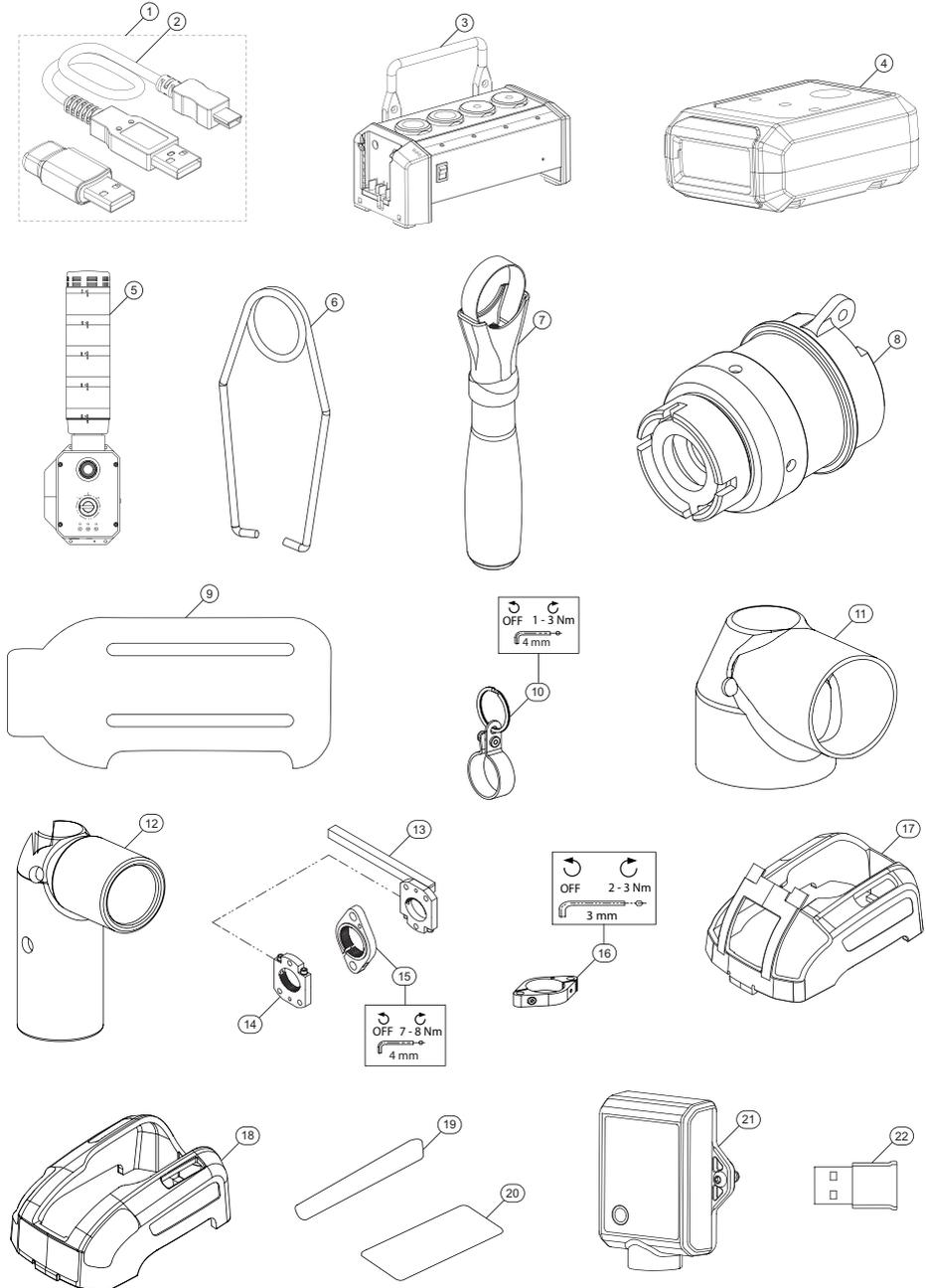
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### QX{ }5A - Tool Assembly - Drawing



(Dwg. TL-VP1B-PLM-15)

## QX Accessories (Optional) - Drawings



(Dwg. TL-VP1B-PLM-16)

## QX Accessories (Optional) - Parts List

Item	Part Description	Part Number (CCN)
1	Communication Kit (USB Cable and ICS Software)	84737-COMM-KIT (48414460)
2	USB Cable	84737-CABLE-USB (48412613)
3	Wireless Socket Tray	QC-SELECTOR-4-W
4	Wireless Barcode Scanner	QC-SCANNER-1-W
5	Wireless Stacklight	QC-STKL-4-W
*6	Suspension Bail	VP1-365 (48382147)
*7	Auxiliary Handle	VP1-A48 (47107263)
*8	Motor Unit Kit	VP1-K40
**9	Tool Boot Accessory with Open Display (Red)	QXA-2P-BOOT-RD
	Tool Boot Accessory with Open Display (Orange)	QXA-2P-BOOT-OR
	Tool Boot Accessory with Open Display (Yellow)	QXA-2P-BOOT-YL
	Tool Boot Accessory with Open Display (White)	QXA-2P-BOOT-WT
	Tool Boot Accessory with Open Display (Green)	QXA-2P-BOOT-GN
	Tool Boot Accessory with Open Display (Black)	QXA-2P-BOOT-BK
	Tool Boot Accessory with Open Display (Blue)	QXA-2P-BOOT-BL
	Tool Boot with Open Display (Red)	QXD-2P-BOOT-RD
	Tool Boot with Open Display (Orange)	QXD-2P-BOOT-OR
	Tool Boot with Open Display (Yellow)	QXD-2P-BOOT-YL
	Tool Boot with Open Display (White)	QXD-2P-BOOT-WT
	Tool Boot with Open Display (Green)	QXD-2P-BOOT-GN
Tool Boot with Open Display (Black)	QXD-2P-BOOT-BK	
Tool Boot with Open Display (Blue)	QXD-2P-BOOT-BL	
**10	Tool Hanger Assembly for models { }005P{ }, { }010P{ }, { }015P{ }, and { }018P{ }	CPS2-A365 (45592979)
	for models { }020P{ }, { }027P{ }, { }030P{ }, { }035P{ }, { }040P{ }, { }060P{ }, and { }080P{ }	GEA40-A365 (45567849)
**11	Angle Head Sleeve for models { }018P{ } and { }020P{ }	GEA40-170 (80095847)
	for models { }027P{ }, { }030P{ }, and { }035P{ }	GEA40-171 (80095888)
	for models { }040P{ }, { }060P{ }, and { }080P{ }	GEA40-172 (80095409)
**12	Extended Boot	
+	for model { }005P{ }	VA1-R18-170 (47526045)
+	for models { }010P{ } and { }015P{ }	VA1-R25-170 (47526046)
	for models { }018P{ } and { }020P{ }	GAA2-170 (80199557)
	for models { }027P{ }, { }030P{ }, and { }035P{ }	GAA4-170 (80199052)
	for models { }040P{ }, { }060P{ }, and { }080P{ }	GAA5-170 (80199656)
**^13	Reaction Bar Assembly	DEA120-K48 (04642369)
**^14	Mounting Plate Assembly	DAM120-K48 (04340535)
**^15	Mounting Plate Assembly (flanged)	GEM120-K48 (80112790)
†	Socket Tray Retaining Pin and Spring (for 3/8" and 1/2" Square Drive)	KIT-PFS (45567997)
†	Socket Tray Retaining Pin and Spring [for 3/8" Square Drive] (5 required)	GEA15-38KIT-5 (45612033)
†	Socket Tray Retaining Pin and Spring [for 1/2" Square Drive] (5 required)	GEA40-38KIT-5 (45612041)
*16	Clamp Fixture (for models { }005P{ }, { }010P{ }, { }015P{ }, and { }018P{ })	CPS2-K48 (45626546)
*17	Retainer Battery	VP1-202V (47506474001)
**18	Retainer Battery	VA1-202V (47521241001)
19	Label, Battery Retainer (includes LH and RH)	VP1-99V-2 (47508447001)
20	Warning Label, Battery Retainer	VP1-99V (47506214001)
21	Radio Module (802.15.4)	TA-QC-RADIO
22	Dongle (Wi-Fi 6)	TK-VP1-DONGLE-W6

\* For QX Pistol Tool Series { }2P{ } accessory.

\*\* For QX Angle Tool Series { }2A{ } and { }5A{ } accessories.

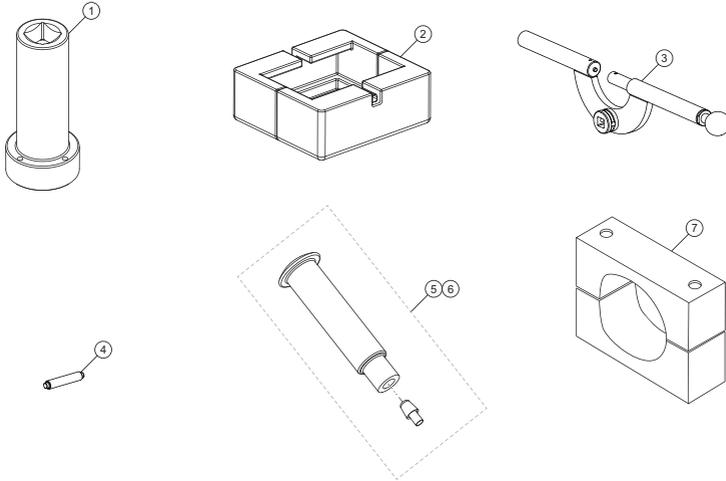
^ For QX{ }5A{ } Series and QX{ }27P{ } models using coupling nut DAA4-27.

+ For these models, extended boot may be trimmed to fit standard angle heads.

# Additional colors available upon request. Refer all communication to the nearest **Ingersoll Rand** office or distributor.

† Indicates not illustrated.

## QX Tooling Accessories (Optional) - Drawings



(Dwg. TL-VP1B-PLM-17)

## QX Tooling Accessories (Optional) - Parts List

Item	Part Description	Part Number (CCN)
*1	Bearing Nut Tool	VP1-00003 (47128921)
*2	Gear Case Holding Fixture (use with Bearing Nut Tool, VP1-00003)	VP1-A00004 (47603377001)
**3	Spanner Wrench for Tool Series { }2A{ }	---
	for Tool Series { }5A{ }	CPS2-478 (45611563) GEA40-478 (80114440)
**4	Dowel Pin	---
	for Spanner Wrench CPS2-478 for Spanner Wrench GEA40-478	CPS2-478L (45611639) GEA40-478S (80114689)
*5	Retaining Ring Tool (for VP1-118)	VP1-00001 (47126982)
*6	Retaining Ring Tool (for 182A13CXRSN50)	VP1-00002 (47128889)
*7	Holder	VA1-239 (47526047)

\* For QX Pistol Tool Series { }2P{ } accessory.

\*\* For QX Angle Tool Series { }2A{ } and { }5A{ } accessories.

## Parts and Maintenance

Use lithium-based, electrical contact grease with no particles for all electrical connections.

When tool life has expired, it is recommended that the tool be disassembled, degreased and parts separated by material for proper recycling.

Tool repair and maintenance should only be carried out by an Authorized Service Center.

Refer all communications to the nearest **Ingersoll Rand** office or distributor.

## Related Documentation

Manuals can be downloaded from [ingersollrand.com](http://ingersollrand.com)

For additional information, refer to:

Product Safety Information Manual TL-VP1T-SIM

Product Information Manual TL-VP1B-PIM

Maintenance Information Manual TL-VP1T-MIM

CE-Declaration of Conformity TL-VP1B-DOC

UK-Declaration of Conformity TL-VP1B-DOC-UK

**Notes:**

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