



Model: See Affected Models	Dec. 15, 2020
Serial #: N/A	
Product Bulletin # TDS-227 v 1.0	

Top Drive Blower Upgrade

Canrig has discontinued production of the P10052-X and P10576-X series blower which are used on 1250AC and 1275AC top drives. These blowers have been replaced with a new blower with an improved mounting and airflow in comparison with the previous design. See Figure 1.

New Blower Features

- Improved air flow
- Flipped motor 180° for improved motor mounting to withstand rough drilling
- Decreased size and weight
- Increased mounting points on A-frame for additional support
- Retrofits into legacy 1250AC/1275AC top drives

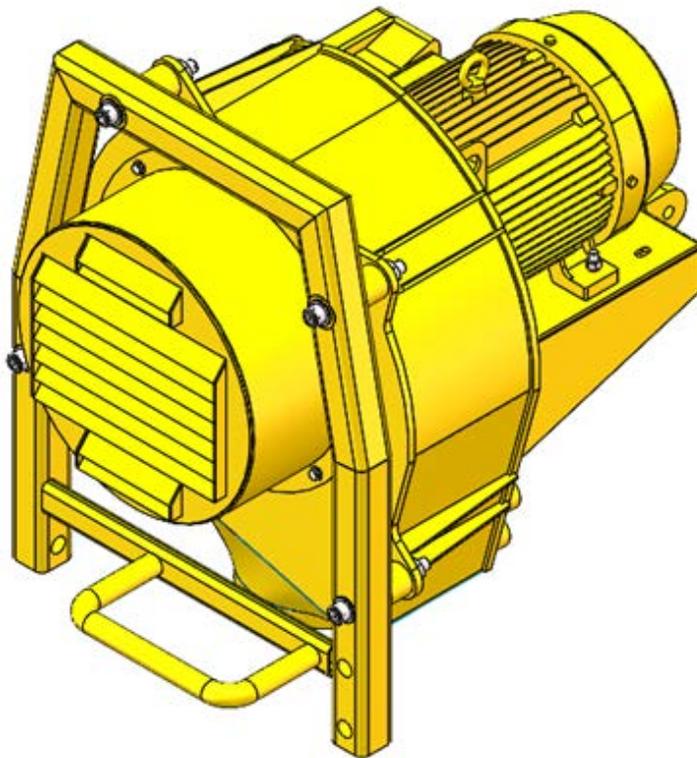


Figure 1: New Blower Assembly



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Affected Models

Top drive models: 1250AC-681, 1250AC-865, 1275AC-681, 1275AC-865 using the legacy P10576-X (see Figure 2) and P10052-X (see Figure 3 on page 3) series blower.

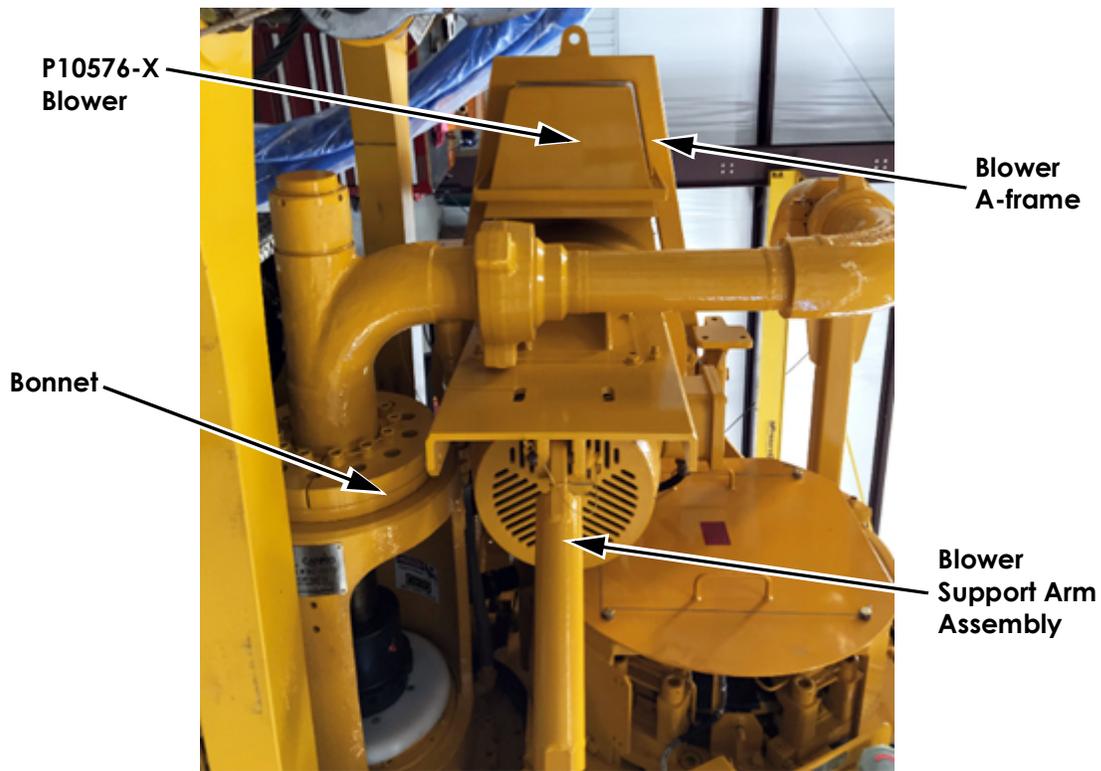


Figure 2: P10576-X Series Blower Configuration

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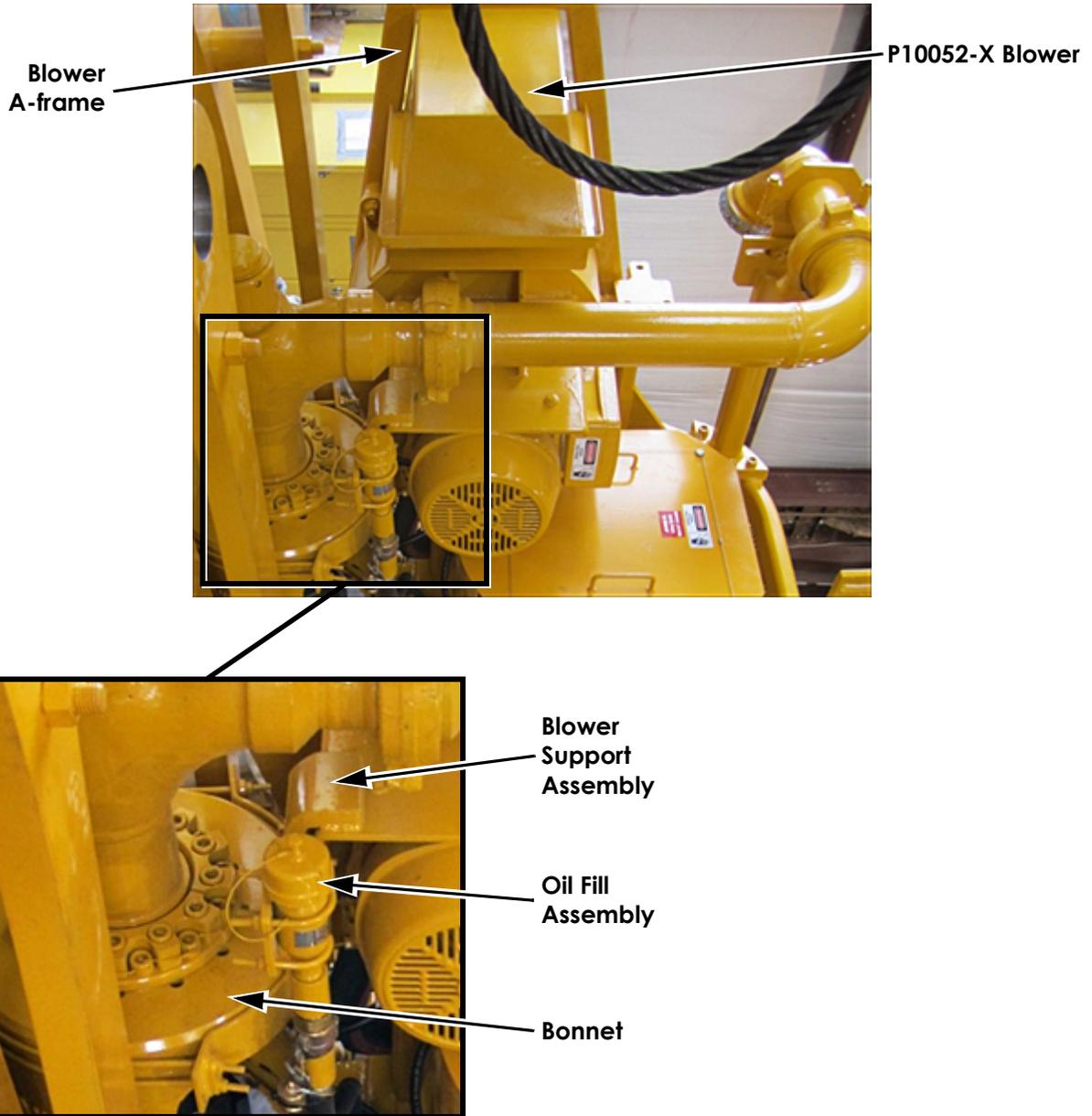


Figure 3: P10052-X Series Blower Configuration



Note: When replacing the P10052-X series blower, additional parts must be ordered and installed before the new blower assembly can be installed. See “Additional Part Information” on page 7.



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Replacement Information

Contact RIGLINE 24/7™ to order the new blower assemblies. The blower assembly kits vary depending on the top drive bore and blower's motor voltage. Use the tables below to order the correct assemblies and spare parts.

Table 1: 3" Bore Top Drive Blower Assembly Options

Old Blower Part No.	New Blower Part No.	New Blower Description	Motor P/N & Description
P10052 P10052-EX P10576 P10576-2 P10576-3 P10576-4 P10576-8 P10576-9	P10602 (Complete Blower Replacement)	BLOWER ASSY, 575V, 15 HP, 55c, Ex Includes: <ul style="list-style-type: none"> • Mounting A-frame • Blower Intake 	E19265 MOTOR, AC, 15HP, 575V, 3600 RPM, 55C, Ex (Replaceable Part)
	AY24357 (Complete Blower Replacement with Support Arm Assembly)	Includes: <ul style="list-style-type: none"> • Blower P10602 (Replaceable Part) • Blower support arm assy/modification (One time only installation) • Fasteners and safety hardware 	
P10052-460 P10576-1 P10576-5 P10576-6 P10576-7 P10576-10	P10602-1 (Complete Blower Replacement)	BLOWER ASSY, 575V, 15 HP, 55c, Ex Includes: <ul style="list-style-type: none"> • Mounting A-frame • Blower Intake 	E19408 MOTOR, AC, 15HP, 460V, 3600 RPM, 55C, Ex (Replaceable Part)
	AY24357-3 (Complete Blower Replacement with Support Arm Assembly)	Includes: <ul style="list-style-type: none"> • Blower P10602-1 (Replaceable Part) • Blower support arm assy/modification (One time only installation) • Fasteners and safety hardware 	



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Table 2: 4" Bore Top Drive Blower Assembly Options

Old Blower Part No.	New Blower Part No.	New Blower Description	Motor P/N & Description
P10052 P10052-EX P10576 P10576-2 P10576-3 P10576-4 P10576-8 P10576-9	P10602 (Complete Blower Replacement)	BLOWER ASSY, 575V, 15 HP, 55c, Ex Includes: <ul style="list-style-type: none"> • Mounting A-frame • Blower Intake 	E19265 MOTOR, AC, 15HP, 575V, 3600 RPM, 55C, Ex (Replaceable Part)
	AY24357-1 (Complete Blower Replacement with Support Arm Assembly)	Includes: <ul style="list-style-type: none"> • Blower P10602 (Replaceable Part) • Blower support arm assy/modification (One time only installation) • Fasteners and safety hardware • Raised male half coupling (One time only installation) 	
P10052-460 P10576-1 P10576-5 P10576-6 P10576-7 P10576-10	P10602-1 (Complete Blower Replacement)	BLOWER ASSY, 575V, 15 HP, 55c, Ex Includes: <ul style="list-style-type: none"> • Mounting A-frame • Blower Intake 	E19408 MOTOR, AC, 15HP, 460V, 3600 RPM, 55C, Ex (Replaceable Part)
	AY24357-4 (Complete Blower Replacement with Support Arm Assembly)	Includes: <ul style="list-style-type: none"> • Blower P10602-1 (Replaceable Part) • Blower support arm assy/modification (One time only installation) • Fasteners and safety hardware • Raised male half coupling (One time only installation) 	



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Table 3: 4"-3" Bore Top Drive Blower Assembly Options

Old Blower Part No.	New Blower Part No.	New Blower Description	Motor P/N & Description
P10052 P10052-EX P10576 P10576-2 P10576-3 P10576-4 P10576-8 P10576-9	P10602 (Complete Blower Replacement)	BLOWER ASSY, 575V, 15 HP, 55c, Ex Includes: <ul style="list-style-type: none"> • Mounting A-frame • Blower Intake 	E19265 MOTOR, AC, 15HP, 575V, 3600 RPM, 55C, Ex (Replaceable Part)
	AY24357-2 (Complete Blower Replacement with Support Arm Assembly)	Includes: <ul style="list-style-type: none"> • Blower P10602 (Replaceable Part) • Blower support arm assy/modification (One time only installation) • Fasteners and safety hardware • Raised male half coupling (One time only installation) 	
P10052-460 P10576-1 P10576-5 P10576-6 P10576-7 P10576-10	P10602-1 (Complete Blower Replacement)	BLOWER ASSY, 575V, 15 HP, 55c, Ex Includes: <ul style="list-style-type: none"> • Mounting A-frame • Blower Intake 	E19408 MOTOR, AC, 15HP, 460V, 3600 RPM, 55C, Ex (Replaceable Part)
	AY24357-5 (Complete Blower Replacement with Support Arm Assembly)	Includes: <ul style="list-style-type: none"> • Blower P10602-1 (Replaceable Part) • Blower support arm assy/modification (One time only installation) • Fasteners and safety hardware • Raised male half coupling (One time only installation) 	



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Additional Part Information



Note: Disregard the below information if the current blower installed on the top drive is the P10576-X series blower.

When upgrading from a P10052-X series blower to the new P10602-X series blower, additional modifications need to be made. Contact RIGLINE 24/7™ to order the parts needed for these changes.

Guard Modification for Blower Support Arm

Table 4: Guard Modification Components

Item	Qty.	Part No.	Description
1	2	DT33560	PAD EYE, GUARD, BLOWER SUPPORT

Oil Fill Assembly Relocation

Table 5: Oil Fill Assembly Components

Item	Qty.	Part No.	Description
1	1	692-44-0	CAP, OIL FILL
2	1	F07-1010-010	SWAGE, SCH 80, 2 NPT x 1 NPT, A106
3	1	H15-140138-16-16	CPLG, HEX, 1 NPT
4	1	F08-1020-010	NIPPLE, STD, 1 NPT x 6.00, A120, BLACK
5	1	DT36151	MOUNT, OIL FILL EXTENDER
6	2	F10-1005-010	NIPPLE, HOSE, 1 IN NPT, COMBINATION
7	3 FT	P10040	HOSE, AIR HOSE, 1 in
8	2	DT33888	CAPSCR, HEX HD, 1/2-13UNC x 2.50 – MOD
9	2	LW-0500-NL-SP	LOCKWASHER, 1/2-SP NORD-LOCK
10	2	LN-0500NC-GR8	LOCKNUT, 1/2-13UNC, GR8, STOVER
11	2 FT	M21-2000-010	WIRE ROPE, 1/16 IN, 7 x 7, STAINLESS
12	2	M19-3006-010	FERRULE, 1/16, OVAL, ALUMINUM