



2026 PARTS CATALOG

STEERING GEARS & PUMPS

NO CORE | NO HASSLE | NO PROBLEM

***IT'S AN OE PART IN AN
AFTERMARKET BOX***

“ At QX Heavy Duty there is no question of quality. Our units are produced right alongside the OE products our factory supplies to manufacturers all over the world.

We have held TS 16949:2009, ISO 14001:2004 and OHSAS 18001 certifications since 2004.

Our factory is very capable and exceptionally nimble, inasmuch as we are our own supply chain. Our vertical integration strategies are present throughout our processes.

Castings and critical components are made in-house on the most advanced computerized equipment available anywhere in the world. Heat treating processes are performed in house, utilizing fully automated, multi-stage, atmospherically controlled furnaces. Final assembly and testing are done in a cleanroom environment, assuring the tightest contaminate prevention standards in the industry.

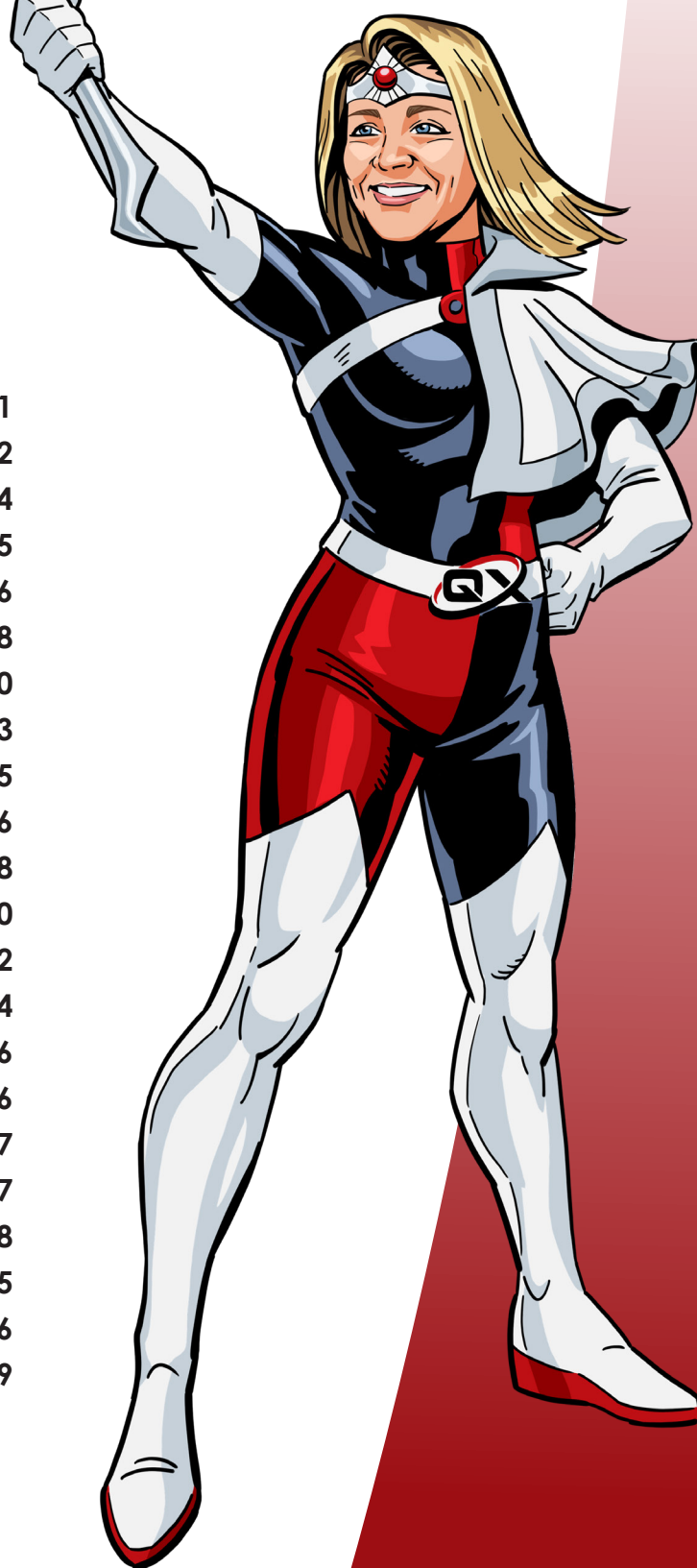
We are committed to providing products and services that meet or exceed all customer requirements and applicable standards. **”**

**QX Heavy Duty is OE Quality.
It's who we are.**



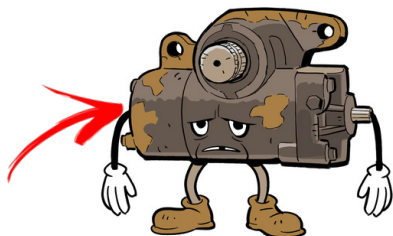
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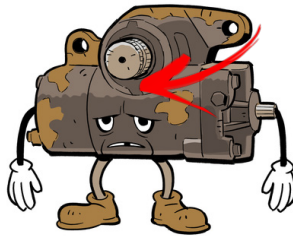


HOW TO IDENTIFY YOUR STEERING GEAR

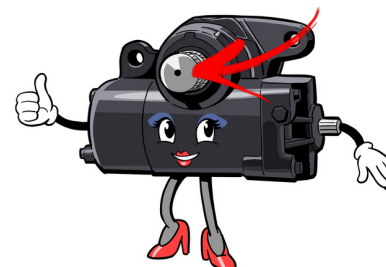
TAS/THP



M100/HD94



QXG

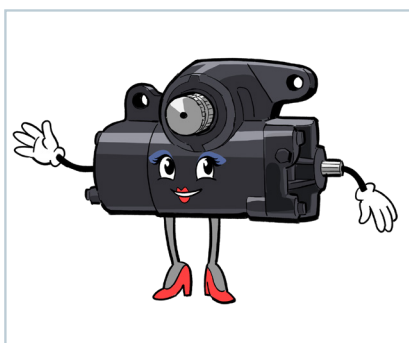


For more detailed information on how to find your part numbers, see page 11.

HD94PAH

QXG-94PAH

R.H. Sheppard Style Steering Gear



- 2005 - 2018 International Pro Star

M100PAH

QXG-100PAH

R.H. Sheppard Style Steering Gear



- 1996 International 8000
- 1988 - 2003 International 9000

M100PCL

QXG-100PCL



- 1990 - 2002 International 2000 / 4000 / 8000

M100PHE

QXG-100PHE

R.H. Sheppard Style Steering Gear



- 1997 - 2006 International 7000 / 9000

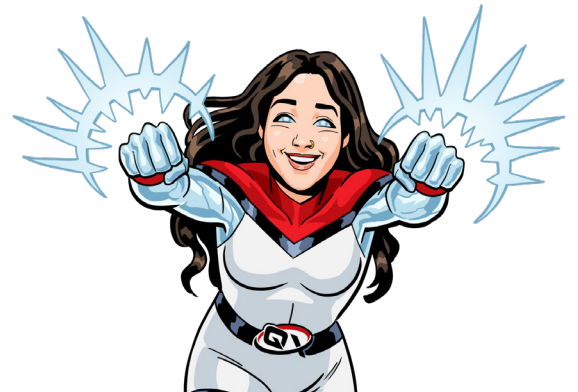
M100PMT

QXG-100PMT

R.H. Sheppard Style Steering Gear



- 2003 - 2009 International 4000



M100PMX

QXG-100PHE

R.H. Sheppard Style Steering Gear

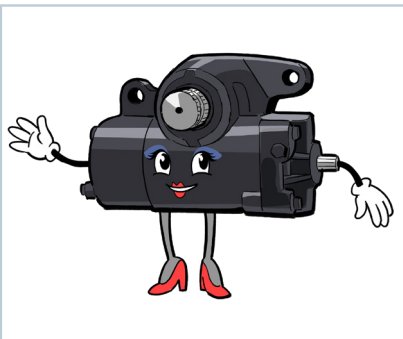


- 2003 International 5000
- 2002 - 2006 International 7000
- 2004 - 2010 International 8000
- 1996 - 2008 International 9000

M80SAW

QXG-80SAW

R.H. Sheppard Style Steering Gear



- 2002 - 2012 International 7000 SLAVE

TAS40042

QXG-40042

TRW Style Steering Gear

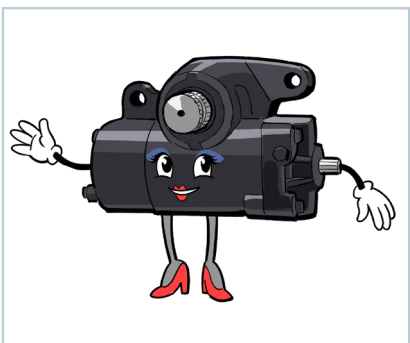


- 2003 - 2012 International 4000
- 1995 Ford FT800 / F700

TAS55016

QXG-55016

TRW Style Steering Gear



- 2000 - 2012 Freightliner MT55



TAS65004

QXG-65004

TRW Style Steering Gear



- 1995 - 2007 Freightliner Century / Columbia / M8
- 1988 - 1997 Freightliner FC / FL / FLC / FLD
- 1995 - 2011 Ottawa Yard Spotter
- 1995 - 2007 Sterling 9000
- 2005 - 2007 Mack / Volvo CHN613

TAS65024

QXG-65024

TRW Style Steering Gear



- 1988 - 2010 Peterbilt 362 / 375 / 377 / 378 / 379 / 385

TAS65079

QXG-65079

TRW Style Steering Gear



- 1997 - 2009 Kenworth T800 / W900

TAS65090

QXG-65090

TRW Style Steering Gear



- 1985 - 1993 Kenworth C500 / T600 / T800 / W900
- 1987 - 2006 Kenworth T400 / T600 / T800 / W900
- 1988 - 2006 Kenworth C500 / T400 / T600 / T800 / W900

TAS65155

QXG-65155

TRW Style Steering Gear

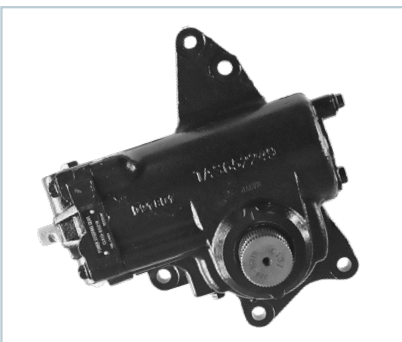


- 2002 - 2016 Freightliner Century / Columbia / Coronado / FL120

TAS65218

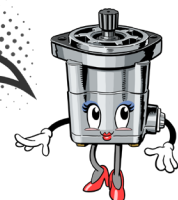
QXG-65218

TRW Style Steering Gear



- 2006 - 2014 Kenworth T2000 / T600 / T700
- 2005 - 2014 Kenworth T800

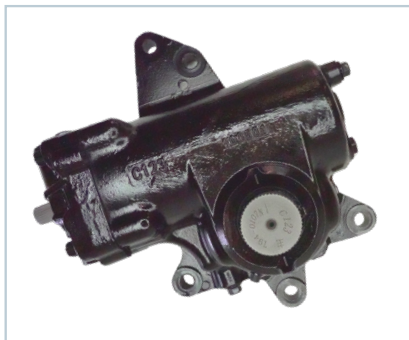
**SHARK! EVERYBODY
OUT OF THE WATER!**



TAS65219

QXG-65219

TRW Style Steering Gear



- 2006 - 2014 Kenworth T400 / T600 / T800 / W900
- 2006 - 2014 Peterbilt 365 / 367 / 384 / 386 / 388 / 389

TAS85142

QXG-85142

TRW Style Steering Gear



- 2005 - 2006 Freightliner M2 / 112
- 2012 Freightliner Coronado

TAS85145

QXG-85145

TRW Style Steering Gear



- 2006 - 2014 Kenworth T400 / T600 / T800 / W900

THP60004

QXG-60004

TRW Style Steering Gear



- 2006 - 2014 Volvo VN



THP60006

QXG-60006

TRW Style Steering Gear



- 2002 - 2018 Freightliner

THP60008

QXG-60008

TRW Style Steering Gear



- 2002 - 2018 Freightliner Cascadia / Columbia / Century / Coronado / M2
- 2005 Sterling 8000
- 2004 - 2014 Western Star 4700 / 4800 / 4900

THP60010 / THP60017

QXG-60010

TRW Style Steering Gear

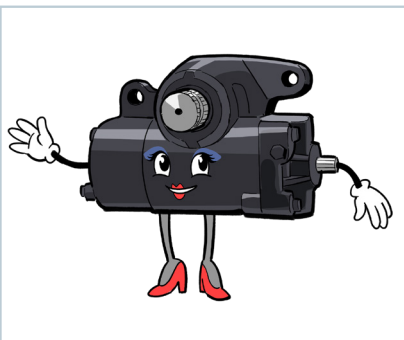


- 2005 - 2016 Freightliner Columbia
- 2005 - 2017 Freightliner Cascadia
- 2005 - 2015 Freightliner Century / FL / M2 / ST
- 2007 - Present Freightliner M2

THP60054

QXG-60054

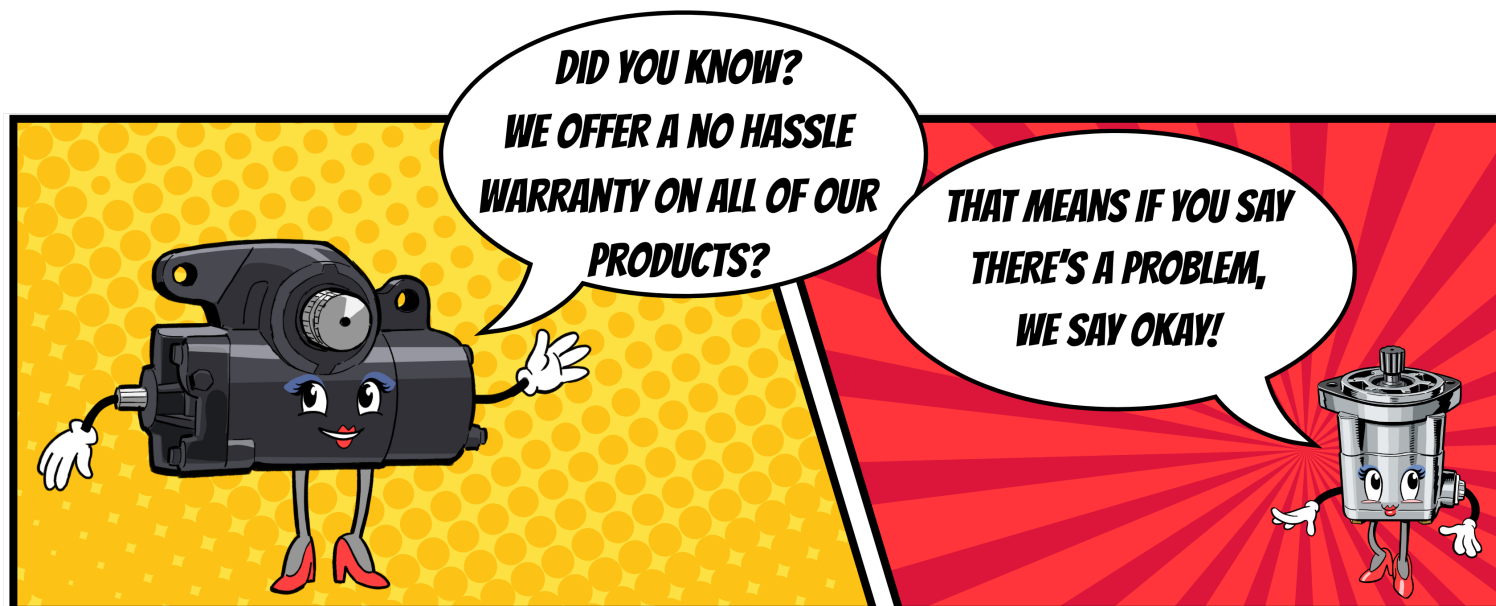
TRW Style Steering Gear



- 2018 - Present Freightliner Cascadia

COMING SOON!

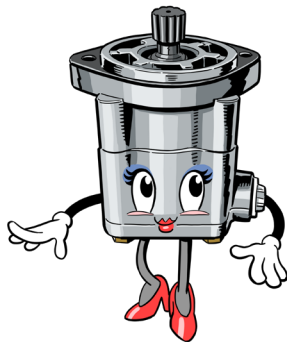
OE / MFG ID #	QXHD Part #	Application Data	Style
HD94PAB	QXG-94PAB	2014 - Present Kenworth T680	R.H. Sheppard Style Steering Gear
		2014 - 2016 Peterbilt 579	R.H. Sheppard Style Steering Gear
M100PRZ	QXG-100PRZ	2010 - 2014 Kenworth	R.H. Sheppard Style Steering Gear
		2010 - 2014 Peterbilt 367, 386	R.H. Sheppard Style Steering Gear
M100PVV	QXG-100PVV	2015 - 2023 Mack PI, CHU	R.H. Sheppard Style Steering Gear
TAS65014	QXG-65014	2002 - 2016 Peterbilt 387	TRW Style Steering Gear
		2002 - 2016 Western Star Constellation	TRW Style Steering Gear
		2002 - 2016 Sterling A9500, L9500, LT9500, AT9500	TRW Style Steering Gear
TAS65166	QXG-65014	2002 - 2016 Peterbilt 387	TRW Style Steering Gear
		2002 - 2016 Western Star Constellation	TRW Style Steering Gear
		2002 - 2016 Sterling A9500, L9500, LT9500, AT9500	TRW Style Steering Gear
TAS85052	QXG-85052	2000 - 2006 Peterbilt 357, 377, 378, 379, 380	TRW Style Steering Gear
		2008 - 2013 Freightliner Cascadia	TRW Style Steering Gear
		2007 - 2010 Freightliner Columbia	TRW Style Steering Gear
		2008 - 2012 Freightliner M2	TRW Style Steering Gear
		2010 - 2016 Peterbilt 587	TRW Style Steering Gear
		2013 - Present Kenworth T680	TRW Style Steering Gear
XD120PE1	QXG-120PE1	2010 - Present Mack Terra Pro	R.H. Sheppard Style Steering Gear



HELPFUL HINTS TO IDENTIFY PARTS

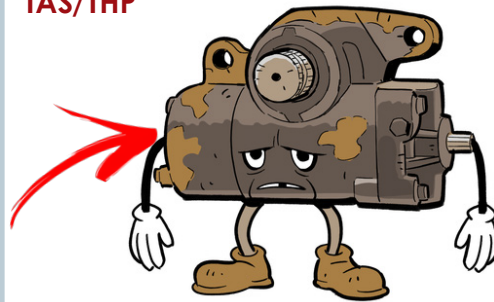
- Avoid the raised numbers on the steering gears, these are casting numbers and should not be used for identification purposes.
- Engraved numbers should be used to properly identify steering gears. Check out below for placement on where to find them.
- If the ID is painted over on the input shaft, you can tap it with a ball peen hammer and the paint will fall off.
- If its dirty, spray with brake cleaner and scrub carefully with a wire brush.
- QX gears can be identified by the MFG ID as well as the tag on the backside of the gear.

PUMP



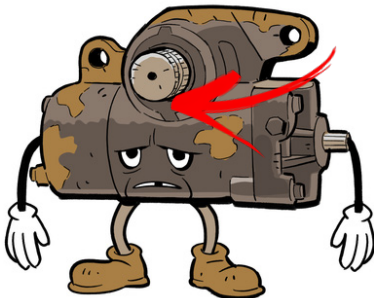
Power steering pumps have a tag on the back side, so you typically have to remove it from the truck to get the number you need. To determine the configuration of a pump, you have to point the shaft at your body with the inlet port (the big one) facing up.

TAS/THP



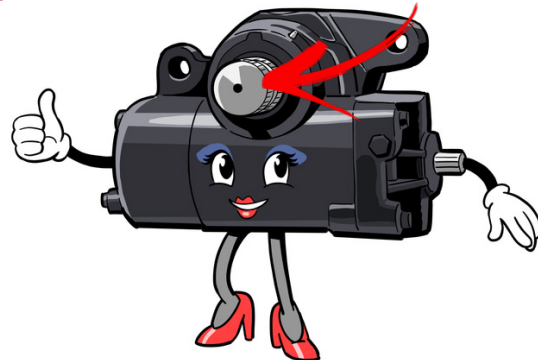
The TRW style gear has a part number on the end of the gear, opposite the input shaft. This number is engraved, so be mindful not to scrape it off.

M100/HD94



The Sheppard style gear has a part number engraved underneath the sector shaft. This number can be covered up by the pitman arm, so you may have to turn the wheel to see it.

QXG



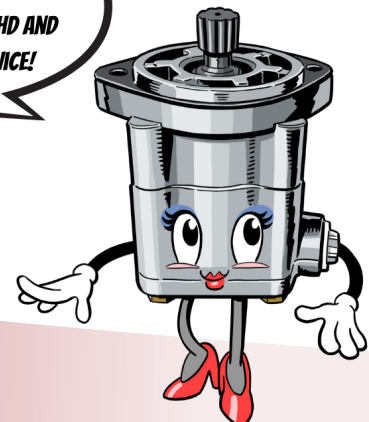
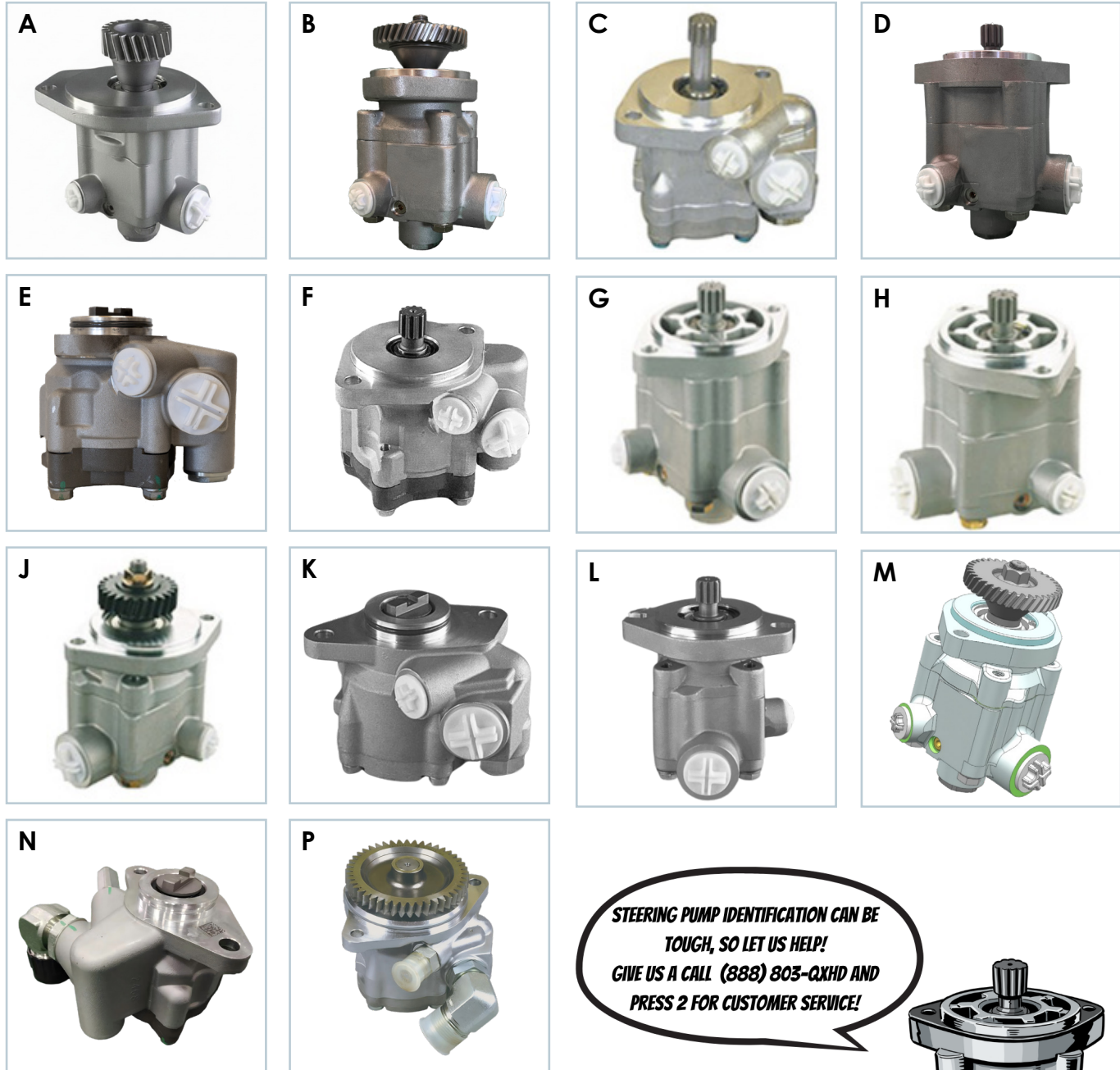
You can identify a QX gear by its MFG ID with a quick glance at the sector shaft. There is a tag on the backside of the gear with the QXG# as well.

Easy peasy. Yup.

LUK pumps have a manufacturer ID tag attached to the pump housing or the ID number is stamped into the back plate.

This ID number details all the specifications of the pump.

Illustrations



LUK PUMP IDENTIFICATION GUIDE

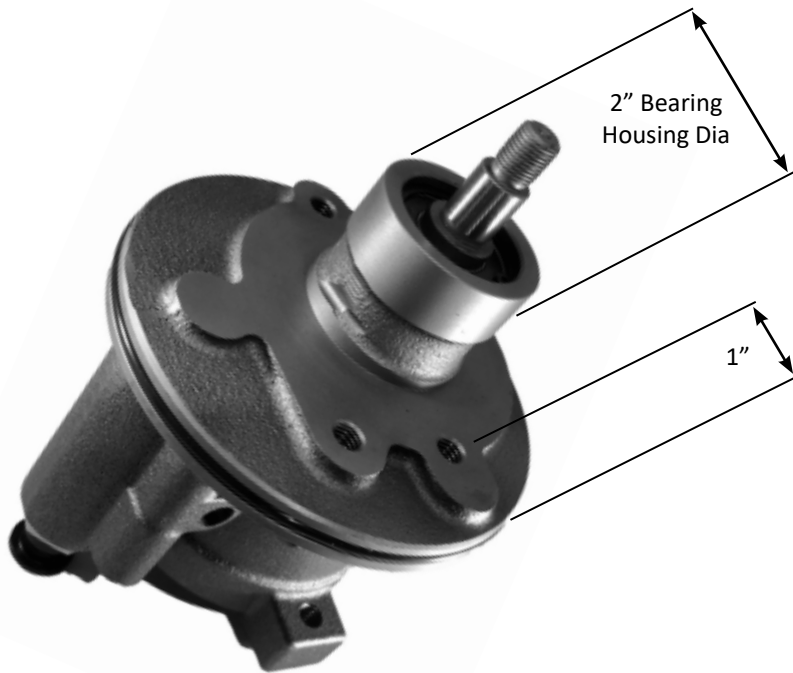


NOTE: Not all valid MFG ID numbers are shown here. Please consult the master interchange guide for additional listings.

Common Cross MFG ID #	QXHD Part #	Pressure Port	Mounting Flange	Pressure Port Size	Inlet Port Size	DISP (cc)	Flow (GPM)	Pressure (PSI)	Rotation	Illustr.
2106544	QX-615	RIGHT	VERT	3/4"-16-2B	1-1/16"-12-2B	21	4.2	2365	CW	A
2010412C92	QX-484	RIGHT	HORIZ	3/4"-16	1-1/16"-12	21	4.2	2395	CCW	B
3535275C91	QX-615A	RIGHT	VERT	3/4"-16-2B	1-1/16"-12-2B	21	4.2	2540	CW	A
3542059C91	QX-436D	RIGHT	VERT	3/4"-16	1-1/16"-12	25	4.2	2175	CW	D
3623641C94	QX-730	HYT TYPE		3/4"-16	1-1/16"-12	25	4.2	2685	CCW	E
3624643C91	QX-2721	HYT TYPE		3/4"-16-2B	1-1/16"-12-2B	25	4.2	2685	CW	F
3807510C91	QX-741A	HYT TYPE		3/4"-16-2B	1-1/16"-12-2B	25	5.1	2685	CCW	F
3820856C91	QX-741	HYT TYPE		3/4"-16	1-1/16"-12	28	5.8	2395	CCW	F
3825468C91	QX-769B	HYT TYPE		3/4"-16-2B	1-1/16"-12-2B	28	5.8	2395	CW	C
3829278C91	QX-3258	HYT TYPE		7/8-14UNF-2A	1-5/16-12UN-2A	21	4.2	2320	CCW	P
3836058C91	QX-769	HYT TYPE		3/4"-16	1-1/16"-12	21	4.2	2685	CW	C
3836828C91	QX-769A	HYT TYPE		3/4"-16-2B	1-1/16"-12-2B	28	5.8	2105	CW	C
4167162C91	QX-2721-1	HYT TYPE		3/4"-16	1-1/16"-12	25	4.2	2175	CW	F
4188366C91	QX-758C	RIGHT	HORIZ	3/4"-16	1-5/16"-12	25	4.2	2175	CCW	G
4188405C91	QX-2468	HYT TYPE		3/4"-16-2B	1-5/16"-12	25	4.2	2395	CCW	N
4188407C91	QX-2468A	HYT TYPE		3/4"-16-2B	1-5/16"-12	28	5.8	2395	CCW	N
4197966C91	QX-2840-1	RIGHT	VERT	3/4"-16	1-1/16"-12	21	4.2	2320	CCW	D
4198340C91	QX-759	RIGHT	HORIZ	3/4"-16-2B	1-1/16"-12-2B	21	4.2	2364	CCW	M
542-0065-10	QX-336E	RIGHT	HORIZ	3/4"-16-2B	1-1/16"-12	17.5	3.9	2175	CW	G
542-0130-10	QX-336	RIGHT	HORIZ	3/4"-16	1-5/16"-12	17	4	2175	CW	G
542-0141-10	QX-336G	RIGHT	HORIZ	M18X1.5	M26X1.5	21	4.2	2365	CW	G
542-0169-10	QX-336A3	RIGHT	HORIZ	3/4"-16-2B	1-5/16"-12-2B	21	5.9	2175	CCW	G
542-0172-10	QX-336-1	LEFT	HORIZ	3/4"-16	1-1/16"-12	21	4	2175	CCW	H
542-0176-10	QX-336-2	LEFT	HORIZ	3/4"-16	1-5/16"-12	21	3.7	2175	CCW	H
542-0188-10	QX-336A5	RIGHT	HORIZ	3/4"-16-2B	1-5/16"-12-2B	21	4.6	2175	CCW	G
542-0191-10	QX-336C	RIGHT	HORIZ	3/4"-16	1-5/16"-12	21	3.7	2320	CCW	G
542-0195-10	QX-336-5	LEFT	HORIZ	3/4"-16	1-1/16"-12	17	4.2	2365	CW	H
542-0212-10	QX-336D	RIGHT	HORIZ	M18X1.5	M26X1.5	21	4.2	2175	CCW	G
542-0239-10	QX-336A	RIGHT	HORIZ	3/4"-16-2B	1-5/16"-12-2B	17.5	3.7	1740	CW	G
542-0248-10	QX-336A1	RIGHT	HORIZ	3/4"-16	1-5/16"-12	21	5.9	2175	CW	G
542-0267-10	QX-336B	RIGHT	HORIZ	3/4"-16	1-1/16"-12	25	6.6	2395	CW	G
542-0269-10	QX-336B1	RIGHT	HORIZ	3/4"-16	1-5/16"-12	25	6.6	2395	CW	G
542-0273-10	QX-396	LEFT	VERT	3/4"-16	1-1/16"-12	21	4.2	2395	CCW	J
542-0320-10	QX-436	RIGHT	VERT	3/4"-16	1-1/16"-12	21	3.9	2395	CW	D
542-0334-10	QX-436A	RIGHT	VERT	3/4"-16	1-1/16"-12	25	4.4	2365	CW	D
542-0359-10	QX-277-9	TOP	HORIZ	3/4"-16	1-1/16"-12	25	5	2175	CCW	K
542-0411-10	QX-436C	RIGHT	VERT	3/4"-16	1-1/16"-12	21	4.6	2540	CW	D
VT73515971	QX-563-1	LEFT	HORIZ	3/4"-16-2B	1-1/16"-12-2B	17	4.2	2320	CCW	L

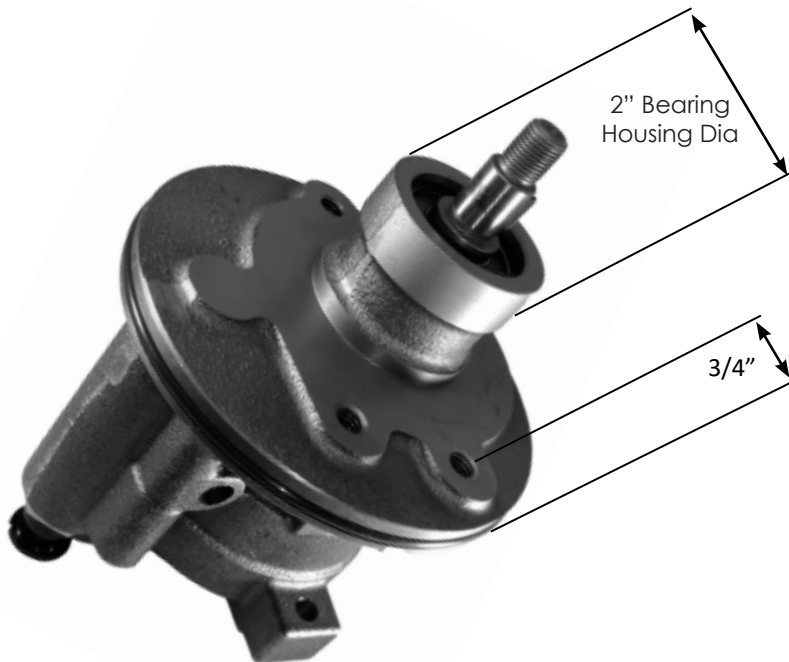
STEERING PUMPS

It is always best to compare the OE or tag number with the cross reference guide.
There are two common types of Saginaw pumps.



**QXHD PART #
QX-137-4**

Pressure	1450 PSI
Flow	3.9 GPM
Rotation	CW



**QXHD PART #
QX-137-6**

Pressure	1450 PSI
Flow	3.9 GPM
Rotation	CW

We know our products are good. These are literally OE parts in aftermarket boxes. That being said, steering problems can be very difficult to diagnose. Because of this, we offer a no-hassle warranty to our customers. If you say there's a problem, we'll say okay. We probably won't believe you , but it won't change the process or the outcome.

HOW IT WORKS

1

Call us or send an email to start the process.

Phone: (623) 687-7256

Email: nohassle@qxheavyduty.com

2

We'll ask you what the issue is, and if it's still installed on the truck

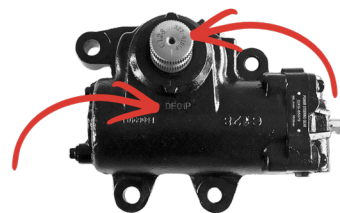
Still Installed: We'll get your customer in touch with our tech guy to diagnose the issue further

Off the Truck: If it's already off the truck, we'll proceed with the paperwork.

3

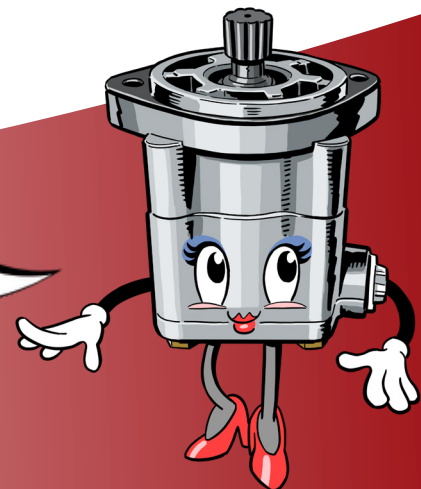
We will need some identifying numbers off the product to start the paperwork

Steering Gears: Numbers on sector shaft and underneath it.



Pumps: Part # on the black tag

**DID YOU KNOW?
WE CAN PREVENT OVER 90% OF
WARRANTIES JUST BY GETTING
THE TECH ON THE LINE!**



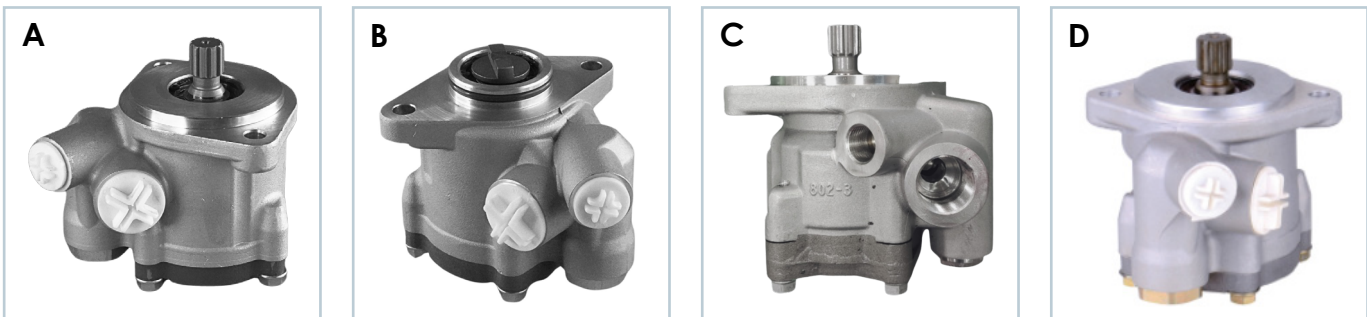
TRW pumps have a manufacturer ID tag attached to the pump housing. This ID number details all the specifications of the pump.

NOTE: The last 2 digits of the MFG ID number (OE code) may or may not appear on the tag and has no effect on the specs of the pump.

Manufacturer ID Number Decoder

EV	22	16	15	L	1	01	(01)						
	↓	↓	↓	↓	↓	↓	↓						
Displacement Per Revolution		Flow Rate		Pressure		Rotation		Shaft Type		Port Type		OE Code (Opt)	
15	15cc	12	3.2 GMP	9	1300 PSI	L	CCW	1	11 Spline	1	JIC-A	01	STD
17	17cc	14	3.7 GMP	12	1740 PSI	R	CW	2	Key Slot	4	JIC-B		
18	18cc	16	4.2 GMP	13	1885 PSI			3	Drive dog	12	Metric		
20	20cc	20	5.3 GMP	14	2030 PSI								
22	22cc	24	6.3 GMP	15	2175 PSI								
25	25cc			16	2320 PSI								
28	28cc			18	2680 PSI								
				19	2830 PSI								

Illustrations



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TRW EV PUMP IDENTIFICATION GUIDE



STEERING PUMPS

Common Cross MFG ID #	QXHD Part #	Disp (CC)	Flow (GPM)	Pressure (PSI)	Rotation	Shaft	Ports	Illustr..
EV151618L101	QX-3015	15	4.2	2680	CCW	11 spline	JIC-A	A
EV151618L101	QX-2487B	15	4.2	2680	CCW	11 spline	JIC-A	C
EV171618L101	QX-2487B1	17	4.2	2680	CCW	11 spline	JIC-A	C
EV181615L101	QX-375-5	18	4.2	2175	CCW	11 spline	JIC-A	A
EV181615R101	QX-375-7	18	4.2	2175	CW	11 spline	JIC-A	A
EV181616R101	QX-375-10	18	4.2	2320	CW	11 spline	JIC-A	A
EV181618L101	QX-375-13	18	4.2	2680	CCW	11 spline	JIC-A	A
EV181618R101	QX-375-15	18	4.2	2680	CW	11 spline	JIC-A	A
EV181619L101	QX-375-13B	18	4.2	2830	CCW	11 spline	JIC-A	A
EV201618L101	QX-2487B2	20	4.2	2680	CCW	11 spline	JIC-A	C
EV221609L101	QX-375-12	22	4.2	1300	CCW	11 spline	JIC-A	A
EV221609R101	QX-375-11	22	4.2	1300	CW	11 spline	JIC-A	A
EV221613R101	QX-375-1A	22	4.2	1900	CW	11 spline	JIC-A	A
EV221614L304	QX-578	22	4.2	2030	CCW	Drive Dog	JIC-B	B
EV221615L101	QX-375	22	4.2	2175	CCW	11 spline	JIC-A	A
EV221615R101	QX-375-1	22	4.2	2175	CW	11 spline	JIC-A	A
EV221618L101	QX-375-2	22	4.2	2680	CCW	11 spline	JIC-A	A
EV221618L304	QX-578-2	22	4.2	2680	CCW	Drive Dog	JIC-B	B
EV221618R101	QX-375-3	22	4.2	2680	CW	11 spline	JIC-A	A
EV221618R112	QX-375-18	22	4.2	2680	CW	11 spline	Metric	D
EV221619L101	QX-375D	22	4.2	2830	CCW	11 spline	JIC-A	A
EV222418R101	QX-375-16	22	6.3	2680	CW	11 spline	JIC-A	A
EV251615L101	QX-375-4	25	4.2	2175	CCW	11 spline	JIC-A	A
EV251615R101	QX-375-6	25	4.2	2175	CW	11 spline	JIC-A	A
EV251618R101	QX-375-6C	25	4.2	2680	CW	11 spline	JIC-A	A
EV251618L101	QX-375-13A	25	4.2	2680	CCW	11 spline	JIC-A	A
EV252015R101	QX-375-8C	25	5.3	2175	CW	11 spline	JIC-A	A
EV252418L101	QX-375-4H	25	6.3	2680	CCW	11 spline	JIC-A	A
EV252418L304	QX-748A	25	6.3	2680	CCW	Drive Dog	JIC-B	B
EV252418R101	QX-375B	25	6.3	2680	CW	11 spline	JIC-A	A
EV281615R101	QX-375-14	28	4.2	2175	CW	11 spline	JIC-A	A
EV282014L101	QX-375DA	28	5.3	2030	CCW	11 spline	JIC-A	A
EV282415R101	QX-375-9	28	6.3	2175	CW	11 spline	JIC-A	A
EV282415R101	QX-3015TA	28	6.3	2175	CW	11 spline	JIC-A	A
EV282415L101	QX-3015Q	28	6.3	2175	CCW	11 spline	JIC-A	A
EV282418R101	QX-375-9B	28	6.3	2680	CW	11 spline	JIC-A	A

MANUFACTURER ID NUMBER DECODER

Disp CC	15	15	17	17	18	18	20	20	22	22	25	25	28	28		
Flow GPM	12	3.2	14	3.7	16	4.2	20	5.3	24	6.3	28	7.4				
Pressure PSI	9	1300	12	1740	13	1885	14	2030	15	2175	16	2320	18	2680	19	2830

TRW EV STYLE PUMP CLUSTERS

L101

MFG ID # QXHD Part #

EV151618L101	QX-3015
EV181615L101	QX-375-5
EV181618L101	QX-375-13
EV181619L101	QX-375-13B
EV201618L101	QX-2487B2
EV221609L101	QX-375-12
EV221615L101	QX-375
EV221618L101	QX-375-2
EV221619L101	QX-375D
EV251615L101	QX-375-4
EV251618L101	QX-375-13A
EV252418L101	QX-375-4H
EV282014L101	QX-375DA
EV282415L101	QX-3015Q

R101

MFG ID # QXHD Part #

EV181615R101	QX-375-7
EV181616R101	QX-375-10
EV181618R101	QX-375-15
EV221609R101	QX-375-11
EV221613R101	QX-375-1A
EV221615R101	QX-375-1
EV221618R101	QX-375-3
EV222418R101	QX-375-16
EV251615R101	QX-375-6
EV251618R101	QX-375-6C
EV252015R101	QX-375-8C
EV252418R101	QX-375B
EV281615R101	QX-375-14
EV282415R101	QX-375-9
EV282415R101	QX-3015TA
EV282418R101	QX-375-9B

L304

MFG ID # QXHD Part #

EV221614L304	QX-578
EV221618L304	QX-578-2
EV252418L304	QX-748A

Enhanced

MFG ID # QXHD Part #

EV151618L101	QX-3015
EV282415L101	QX-3015Q
EV282415R101	QX-3015TA

R112

MFG ID # QXHD Part #

EV221618R112	QX-375-18
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L101

MFG ID # QXHD Part #

EV151618L101	QX-2487B
EV171618L101	QX-2487B1
EV201618L101	QX-2487B2



GIVE YOUR CUSTOMERS THE OPTIONS THEY DESERVE

We're dedicated to service, plain and simple. Let us help you serve your customers in a whole new way by adding a brand new, coreless option to your hydraulic steering category.

IT'S NOT A STRETCH TO SAY THAT WE HAVE EXCELLENT CUSTOMER SERVICE

We answer our phone, we do what we say, and we always choose to do the right thing.

EXPERIENCE THE DIFFERENCE

A true ***NO HASSLE WARRANTY*** means that if you tell us there's a problem, we say okay. So take care of your customer. We've got your back.



TRW pumps have a manufacturer ID tag attached to the pump housing. This ID number details all the specifications of the pump. **NOTE:** The last 2 digits of the MFG ID number (OE code) may or may not appear on the tag and has no affect on the specs of the pump.

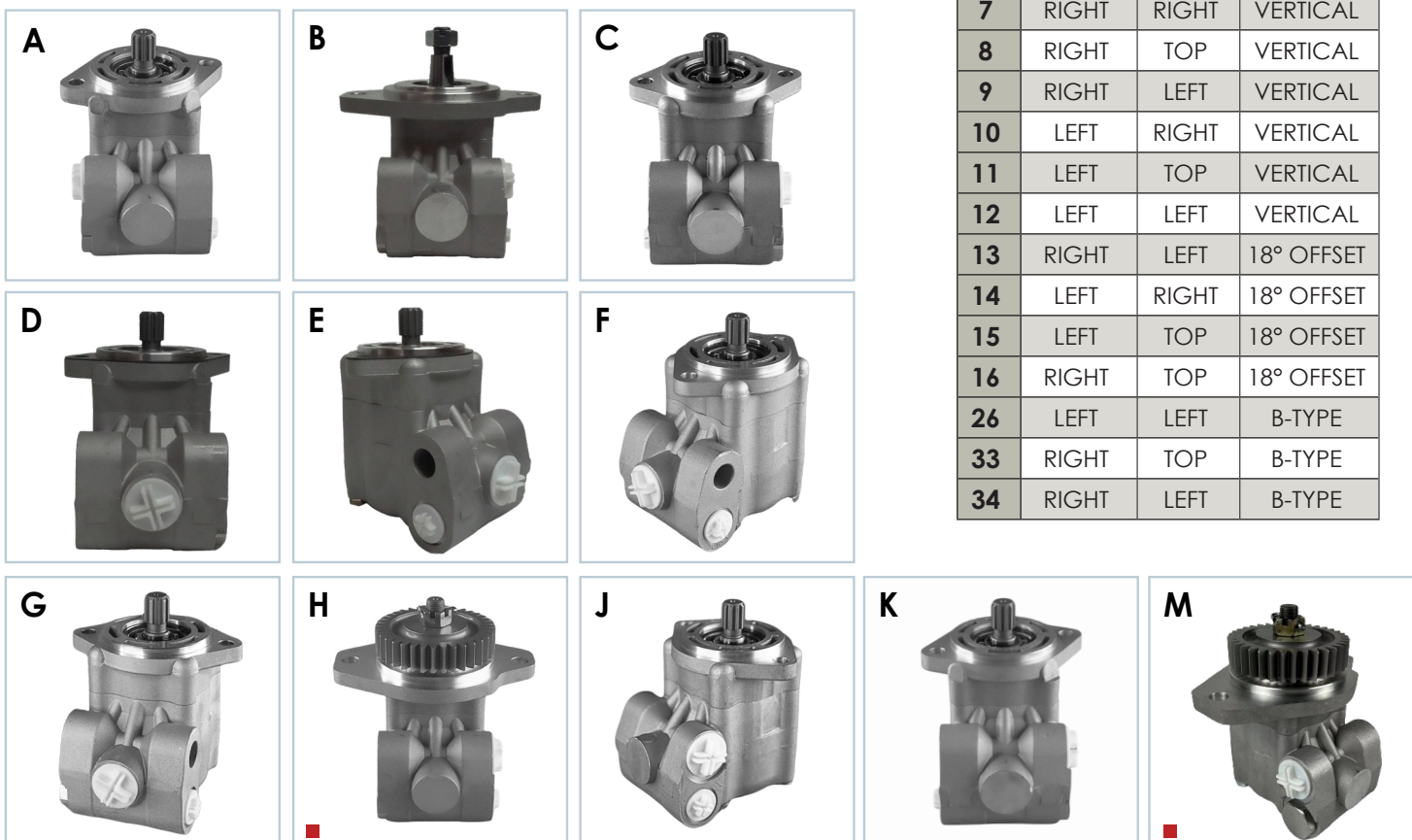
Manufacturer ID Number Decoder

PS	22	16	15	L	1	01	(01)		
	↓	↓	↓	↓	↓	↓	↓		
Displacement Per Revolution		Flow Rate		Rotation		Shaft Type		OE (Opt)	
18	18cc	12	3.2 GPM	10	1450 PSI	1	11 Spline	01	Std
22	22cc	14	3.7 GPM	12	1740 PSI	2	Key slot		
25	25cc	16	4.2 GPM	13	1890 PSI	3	Tapered		
28	28cc	20	5.3 GPM	14	2030 PSI				
32	32cc	24	6.3 GPM	15	2175 PSI				
36	36cc	28	7.4 GPM	16	2320 PSI				
				17	2465 PSI				
				18	2610 PSI				
				19	2755 PSI				

Port Location & Mounting Flange			
	Pressure Port	Inlet Port	Mounting Flange
1	RIGHT	RIGHT	HORIZ

■ Gear Included

Illustrations



Port Location & Mounting Flange			
	Pressure Port	Inlet Port	Mounting Flange
1	RIGHT	RIGHT	HORIZ
2	RIGHT	TOP	HORIZ
3	RIGHT	LEFT	HORIZ
4	LEFT	RIGHT	HORIZ
5	LEFT	TOP	HORIZ
6	LEFT	LEFT	HORIZ
7	RIGHT	RIGHT	VERTICAL
8	RIGHT	TOP	VERTICAL
9	RIGHT	LEFT	VERTICAL
10	LEFT	RIGHT	VERTICAL
11	LEFT	TOP	VERTICAL
12	LEFT	LEFT	VERTICAL
13	RIGHT	LEFT	18° OFFSET
14	LEFT	RIGHT	18° OFFSET
15	LEFT	TOP	18° OFFSET
16	RIGHT	TOP	18° OFFSET
26	LEFT	LEFT	B-TYPE
33	RIGHT	TOP	B-TYPE
34	RIGHT	LEFT	B-TYPE

TRW PS PUMP IDENTIFICATION GUIDE



STEERING PUMPS

Common Cross MFG ID #	QXHD Part #	Disp (CC)	Flow (GPM)	Pressure (PSI)	Rotation	Shaft	Pressure Port	Inlet Port	Illstr.
PS181415R102	QX-539B2	18	3.7	2175	CW	11 spline	RIGHT	TOP	E
PS181615R102	QX-539B	18	4.2	2175	CW	11 spline	RIGHT	TOP	E
PS181615R114	QX-537-4	18	4.2	2175	CW	11 spline	LEFT	RIGHT	A
PS221612R326	QX-528-1	22	4.2	1740	CW	Tapered	LEFT	LEFT	B
PS221615L103	QX-573-4	22	4.2	2175	CCW	11 spline	RIGHT	LEFT	C
PS221615L116	QX-583	22	4.2	2175	CCW	11 spline	RIGHT	TOP	D
PS221615R102	QX-539-13	22	4.2	2175	CW	11 spline	RIGHT	TOP	E
PS221615R103	QX-573-5	22	4.2	2175	CW	11 spline	RIGHT	LEFT	C
PS221615R114	QX-537-5	22	4.2	2175	CW	11 spline	LEFT	RIGHT	A
PS221616R103	QX-573-5A	22	4.2	2320	CW	11 spline	RIGHT	LEFT	C
PS221616R326	QX-528	22	4.2	2320	CW	Tapered	LEFT	LEFT	B
PS221619L333A4	QX-2104-1	22	4.2	2755	CCW	Tapered	RIGHT	TOP	H
PS221619L334A1	QX-528N	22	4.2	2755	CCW	Tapered	RIGHT	LEFT	M
PS251613L111	QX-850	25	4.2	1890	CCW	11 spline	LEFT	TOP	F
PS251613R102	QX-539-6	25	4.2	1890	CW	11 spline	RIGHT	TOP	E
PS251614L102	QX-539-4	25	4.2	2030	CCW	11 spline	RIGHT	TOP	E
PS251615L102	QX-539-2	25	4.2	2175	CCW	11 spline	RIGHT	TOP	E
PS251615L105	QX-539-8	25	4.2	2175	CCW	11 spline	LEFT	TOP	G
PS251615L113	QX-573-3	25	4.2	2175	CCW	11 spline	RIGHT	LEFT	K
PS251615R102	QX-539	25	4.2	2175	CW	11 spline	RIGHT	TOP	E
PS251615R103	QX-573B	25	4.2	2175	CW	11 spline	RIGHT	LEFT	C
PS251615R105	QX-539-10	25	4.2	2175	CW	11 spline	LEFT	TOP	G
PS251615R114	QX-537-1	25	4.2	2175	CW	11 spline	LEFT	RIGHT	A
PS252011L103	QX-573-1A	25	5.3	1600	CCW	11 spline	RIGHT	LEFT	C
PS252415L103	QX-573-7	25	6.3	2175	CCW	11 spline	RIGHT	LEFT	C
PS252415R102	QX-539-6C	25	6.3	2175	CW	11 spline	RIGHT	TOP	E
PS252415R114	QX-537-3	25	6.3	2175	CCW	11 spline	LEFT	RIGHT	A
PS281615R102	QX-539-14	28	4.2	2175	CW	11 spline	RIGHT	TOP	E
PS282013L111	QX-850-2	28	5.3	1890	CCW	11 spline	LEFT	TOP	F
PS282013R102	QX-539-11	28	5.3	1890	CW	11 spline	RIGHT	TOP	E
PS282014R103	QX-573BA	28	5.3	2030	CW	11 spline	RIGHT	LEFT	C
PS282015R102	QX-539-7	28	5.3	2175	CW	11 spline	RIGHT	TOP	E
PS282416L106	QX-2097-1	28	6.3	2320	CCW	11 spline	LEFT	LEFT	J
PS282416R106	QX-2097A	28	6.3	2320	CW	11 spline	LEFT	LEFT	J
PS282417R103	QX-573-6	28	6.3	2465	CW	11 spline	RIGHT	LEFT	C
PS282815L103	QX-573-2	28	7.4	2175	CCW	11 spline	RIGHT	LEFT	C
PS282815L114	QX-537-2	28	7.4	2175	CCW	11 spline	LEFT	RIGHT	A
PS282815L116	QX-583-1	28	7.4	2175	CCW	11 spline	RIGHT	TOP	D
PS282815R102	QX-539-14B	28	7.4	2175	CW	11 spline	RIGHT	TOP	E
PS282815R114	QX-537	28	7.4	2175	CW	11 spline	LEFT	RIGHT	A
PS282816R105	QX-539-5	28	7.4	2320	CW	11 spline	LEFT	TOP	G

Common Cross MFG ID #	QXHD Part #	Disp (CC)	Flow (GPM)	Pressure (PSI)	Rotation	Shaft	Pressure Port	Inlet Port	Illstr.
PS322415L103	QX-718-1	32	6.3	2175	CCW	11 spline	RIGHT	LEFT	C
PS322415R103	QX-718	32	6.3	2175	CW	11 spline	RIGHT	LEFT	C
PS322418R103	QX-718-2	32	6.3	2610	CW	11 spline	RIGHT	LEFT	C
PS322815L105	QX-539-9D	32	7.4	2175	CCW	11 spline	LEFT	TOP	G
PS362415L111	QX-850-4	36	6.3	2175	CCW	11 spline	LEFT	TOP	F
PS362415R102	QX-539-12	36	6.3	2175	CW	11 spline	RIGHT	TOP	E
PS362415R103	QX-725-1	36	6.3	2175	CW	11 spline	RIGHT	LEFT	C
PS362415R105	QX-539-9	36	6.3	2175	CW	11 spline	LEFT	TOP	G
PS362418R106	QX-2525	36	6.3	2610	CW	11 spline	LEFT	LEFT	J
PS362418R103	QX-725-2	36	6.3	2610	CW	11 spline	RIGHT	LEFT	C
PS362815L102	QX-669	36	7.4	2175	CCW	11 spline	RIGHT	TOP	E
PS362815L103	QX-725	36	7.4	2175	CCW	11 spline	RIGHT	LEFT	C
PS362815L105	QX-539-9B1	36	7.4	2175	CCW	11 spline	LEFT	TOP	G
PS362815L111	QX-850-5	36	7.4	2175	CCW	11 spline	LEFT	TOP	F
PS362815L113	QX-726	36	7.4	2175	CCW	11 spline	RIGHT	LEFT	K
PS362815R102	QX-669-1	36	7.4	2175	CW	11 spline	RIGHT	TOP	E
PS362815R103	QX-725-3	36	7.4	2175	CW	11 spline	RIGHT	LEFT	C
PS362816R105	QX-539-9C	36	7.4	2320	CW	11 spline	LEFT	TOP	G
PS362818R102	QX-669-1A	36	7.4	2610	CW	11 spline	RIGHT	TOP	E

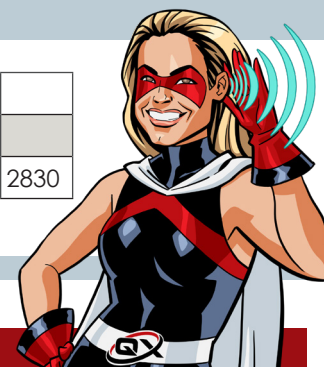


TRW PS STYLE PUMP CLUSTERS



MANUFACTURER ID NUMBER DECODER

Disp CC	15	15	17	17	18	18	20	20	22	22	25	25	28	28		
Flow GPM	12	3.2	14	3.7	16	4.2	20	5.3	24	6.3	28	7.4				
Pressure PSI	9	1300	12	1740	13	1885	14	2030	15	2175	16	2320	18	2680	19	2830



STEERING PUMPS

TRW PS STYLE PUMP CLUSTERS

L102



MFG ID #	QXHD Part #
PS251614L102	QX-539-4
PS251615L102	QX-539-2
PS362815L102	QX-669

L103



MFG ID #	QXHD Part #
PS221615L103	QX-573-4
PS252011L103	QX-573-1A
PS252415L103	QX-573-7
PS282815L103	QX-573-2
PS322415L103	QX-718-1
PS362815L103	QX-725

L105



MFG ID #	QXHD Part #
PS251615L105	QX-539-8
PS322815L105	QX-539-9D
PS362815L105	QX-539-9B1

L106



MFG ID #	QXHD Part #
PS282416L106	QX-2097-1

L111



MFG ID #	QXHD Part #
PS251613L111	QX-850
PS282013L111	QX-850-2
PS362415L111	QX-850-4
PS362815L111	QX-850-5

L113



MFG ID #	QXHD Part #
PS251615L113	QX-573-3
PS362815L113	QX-726

L114



MFG ID #	QXHD Part #
PS282815L114	QX-537-2

L116



MFG ID #	QXHD Part #
PS221615L116	QX-583
PS282815L116	QX-583-1

PART CLUSTERS

L333



MFG ID #	QXHD Part #
PS221619L333A4*	QX-2104-1

L334



MFG ID #	QXHD Part #
PS221619L334A1*	QX-528N

R102



MFG ID #	QXHD Part #
PS181415R102	QX-539B-2
PS181615R102	QX-539B
PS221615R102	QX-539-13
PS251613R102	QX-539-6
PS251615R102	QX-539
PS252415R102	QX-539-6C
PS281615R102	QX-539-14
PS282013R102	QX-539-11
PS282015R102	QX-539-7
PS282815R102	QX-539-14B
PS362415R102	QX-539-12
PS362815R102	QX-669-1
PS362818R102	QX-669-1A

R103



MFG ID #	QXHD Part #
PS221615R103	QX-573-5
PS221616R103	QX-573-5A
PS251615R103	QX-573B
PS282014R103	QX-573BA
PS282417R103	QX-573-6
PS322415R103	QX-718
PS322418R103	QX-718-2
PS362415R103	QX-725-1
PS362418R103	QX-725-2
PS362815R103	QX-725-3

R105



MFG ID #	QXHD Part #
PS251615R105	QX-539-10
PS282816R105	QX-539-5
PS362415R105	QX-539-9
PS362816R105	QX-539-9C

R106



MFG ID #	QXHD Part #
PS282416R106	QX-2097A
PS362418R106	QX-2525

R114



MFG ID #	QXHD Part #
PS181615R114	QX-537-4
PS221615R114	QX-537-5
PS251615R114	QX-537-1
PS252415R114	QX-537-3
PS282815R114	QX-537

R326



MFG ID #	QXHD Part #
PS221612R326	QX-528-1
PS221616R326	QX-528

TRW ZF PUMP IDENTIFICATION GUIDE



ZF pumps have a manufacturer ID tag attached to the pump housing.
You must match the ID number or the OE number to ensure proper replacement.

Common Cross MFG ID #	QXHD Part #	Pressure Port Size	Inlet Port Size	Pressure (PSI)	Flow (GPM)	Rotation	Illustr.
1939437PE	QX-783	M18x1.5	M26x1.5	*See Note	5.3	CCW	F
3406Z07-010-A	QX-18	M20x1.5	M22x105	1885	4.0	CW	A
ZF7674.955.343	QX-257-1	3/4"-16	1-1/16"-12	2390	4.8	CW	B
ZF7674.955.344	QX-257-2	3/4"-16	1-1/16"-12	2390	4.8	CCW	B
ZF7677.955.180	QX-378	3/4"-16	1-1/16"-12	2610	6.3	CW	B
ZF7677.955.181	QX-378-1	3/4"-16	1-1/16"-12	2610	6.3	CCW	B
ZF7683.955.710	QX-2392-1	M18x1.5 6H	M26*1.5-6H	2755	3.2	CW	D
ZF7684.955.775	QX-2392	M18x1.5 6H	M26*1.5-6H	2755	3.2	CW	D
ZF7684.955.955	QX-501-1	M16x1.5 6H	M26*1.5-6H	1805	4.2	CCW	E
ZF7685.955.301	QX-370-4	M18x1.5	M27x2	2320	4.2	CCW	C
ZF7685.955.356	QX-2493	3/4-16UNF-2B	1-1/16-12UN-2B	2465	3.6	CW	G

***NOTE:** Pressure relief valve is external, not included on pump.

Illustrations

STEERING PUMPS

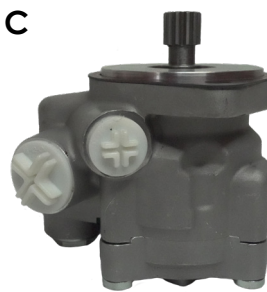
A



B



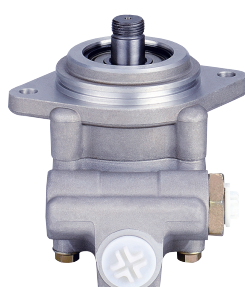
C



D



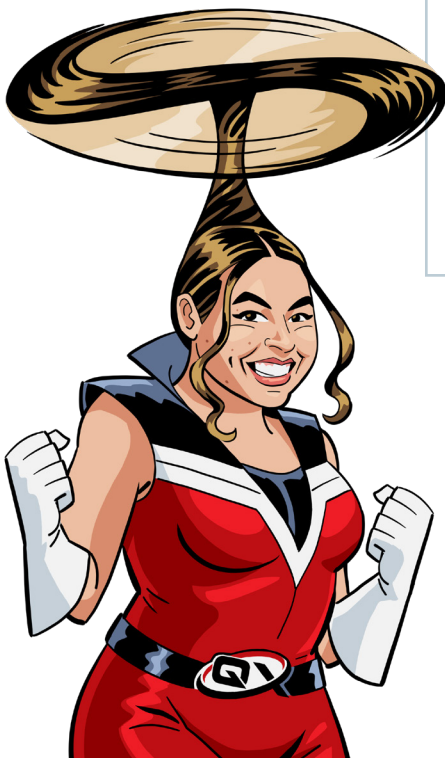
E



F



G



Vickers pumps have a manufacturer ID tag attached to the pump housing or the ID number is stamped into the back plate.

This ID number details all the specifications of the pump.

Manufacturer ID Number Decoder

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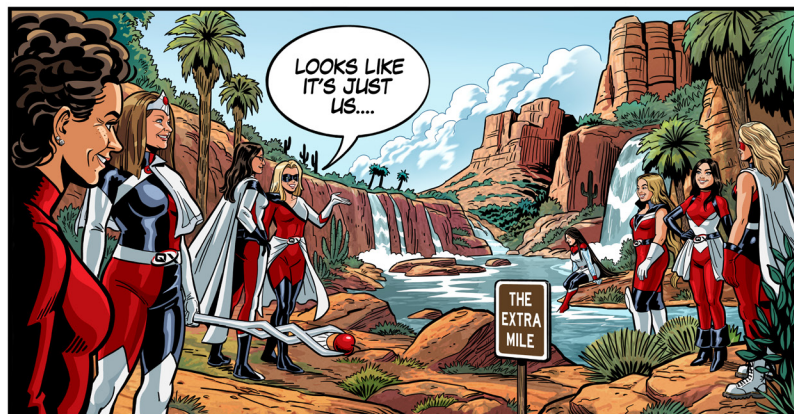
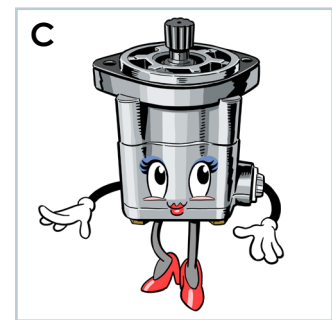
VICKERS PUMP IDENTIFICATION GUIDE



STEERING PUMPS

Common Cross MFG ID #	QXHD Part #	Model	Flow (GPM)	Pressure (PSI)	Rotation	Shaft	Pressure Port	Inlet Port	Illstr.
V10F1P6P-38C-6G	QX-415	V10	6	1750	CW	11 spline	3/4/2016 str thrd	1" NPT	A
V10F1P7P-38D-5G-20	QX-415-1	V10	5	1750	CW	11 spline	3/4/2016 str thrd	1" NPT	A
V10NF1S6T-38C-5G	QX-414	V10	5	1750	CW	11 spline	3/4/2016 str thrd	1 5/16-12 str thrd	A
V20F1D9T-38C-6G-L	QX-731-2	V20	6	1750	CCW	11 spline	3/4/2016 str thrd	1 5/16-12 str thrd	B
V20F1P11P-38D-6H-11	QX-381-2	V20	6	2000	CW	11 spline	3/4/2016 str thrd	1 1/4" NPT	B
V20F1P13P-38B-5H-22	QX-381-6	V20	5	2000	CW	11 spline	3/4/2016 str thrd	1 1/4" NPT	B
V20F1P9P-38B-5H-22	QX-381-6B	V20	5	2000	CW	11 spline	3/4/2016 str thrd	1 1/4" NPT	B
V20F1P9P-38C-6G	QX-381-1	V20	6	1750	CW	11 spline	3/4/2016 str thrd	1 1/4" NPT	B
V20F1P9P-38C-6H	QX-381	V20	6	2000	CW	11 spline	3/4/2016 str thrd	1 1/4" NPT	B
V20F1S8S-38B-7G-22	QX-381K	V20	7	1750	CW	11 spline	3/4/2016 str thrd	1 1/4" NPT	C
V20F1S8S-38D-7G-22L	QX-381L	V20	7	1750	CCW	11 spline	3/4/2016 str thrd	1 1/4" NPT	C
V20NF1D6P-38C-6G-20	QX-731	V20	6	1750	CW	11 spline	3/4/2016 str thrd	1 5/16-12 str thrd	B

Illustrations



Tandem pumps have a manufacturer ID tag attached to the pump housing. These are fuel and steering pumps combined into a single unit.

MACK

Common Cross MFG ID #	QX Tandem Assembly	Disp (cc)	Flow (gpm)	Pressure (psi)	Shaft Type	Pressure Port	Inlet Port	Rotation
21745602	QXT-2020B	21 cc	6.3	2610	gear 31 teeth	M16* 1.5	M26* 1.5	CCW
21745603	QXT-2020-5	15 cc	3.7	2610	gear 36 teeth	M16* 1.5	M26* 1.5	CCW

Illustration



Mack

**SOMETHING
AWESOME
is coming!**



Holy rusted metal boys, it's gonna be worth the wait.

STAY TUNED!

TANDEM PUMP IDENTIFICATION GUIDE



NAVISTAR

Common Cross MFG ID #	QX Tandem Assembly	Gear Size
4224803C1	QXT-2467A1	45 teeth
4224802C1	QXT-2467A	45 teeth
4224799C1	QXT-2467B	45 teeth
4224801C1	QXT-2467B1	45 teeth

NOTE: Components cannot be sold separately.

PACCAR

Common Cross MFG ID #	QX Tandem Assembly	Gear Size	Power Steering Pump	QX PS Pump #	MFG ID # Fuel Pump	QX Fuel Pump #
1885524PE	QXT-783-1	11 teeth	1939436PE (17cc) / 1939437PE (21cc)	QX-783	1939435PE	QXF-1040

TANDEM PUMPS

Illustrations



Navistar



Paccar



If you can't find what you're looking for, give us a call!

(888) 803-QXHD, option 2
for Customer Service.



MX ENGINE

QXF-1040

1939435PE

1040



CATERPILLAR

QXF-1703

10R8713

20R1524

3848611

4089163RX

1703



1703



MACK / VOLVO

QXF-535-1A

20997341

7420997341

85103778

PAI - 880830

535-1A



QXF-929

21051407

21089217

2445110500

25100075

2855500

322GC38M

322GC41

322GC42

322GC45

322GC49

322GC49A

44003001

440020036

85013282

935-0440020001

935-0440020036

ESP3583

PAI - 3583

929



929



DETROIT DIESEL

QXF-956

23532981

PAI - 680350E

USFP20053

956





Drift / Wander

- Tire pressure too low / high / uneven
- Steering linkage loose or worn
- Wheel bearings worn or need adjustment
- Front / Rear end alignment out of spec
- **Steering gear worn or needs adjustment**
- Loose rear axle assemblies
- Fifth wheel lack of lubrication, metal shavings
- Oil flow too high
- **Too much play in pitman arm**
- **Air trapped in steering gear**
- **Output shaft splines are worn**

Excessive Heat

- Excessive pump flow
- Vehicle overload
- Hose or line, size
- Restriction in hose or line, kinked, bent or blocked
- **Poppet not adjusted properly**
- Prolonged stationary vehicle operation

Lost Motion (LASH) at steering wheel

- Steering wheel loose
- Faulty connection between steering gear, intermediate column and steering column
- Loose steering gear (frame)
- **Pitman arm loose on output shaft**
- **Steering gear defective or improperly adjusted**

No Recovery

- Low tire pressure
- Front end alignment off
- Front axle king pins too tight
- Binding in the steering column
- **Insufficient pump flow**
- **Steering gear issue**
- **Pump oil flow too high / low**
- Load Bearings

Excessive Play

- Worn U-Joints
- **Worn pitman arm splines**
- **Damaged sector shaft splines**

Substantial Effort Required

One Direction:

- Unequal tire pressure
- Vehicle overload
- Inadequate hydraulic system pressure
- **Excessive internal leakage in gear box**
- **Bent torsion bar**

Both Directions:

- Low tire pressure
- Vehicle overload
- Low hydraulic fluid level
- Incorrect hydraulic fluid used
- Low pressure or flow from pump
- Restriction in return line
- Return line diameter too small
- **Excessive internal leakage in gear box**
- Oversized tires
- Loose pump drive belt
- Lubrication needed
- Front end alignment off
- Air in hydraulic system

External Leakage

- Faulty hoses, fittings, pump, gear & vent plug
- **Possible input/output seals are damaged**
 - Oil may run away from leak source

Shimmy or Shake

- Worn tires / uneven
- Mounting issue with tire or wheel
- Worn wheel bearing
- Steering linkage loose or worn
- Wheels / Brake Drums out of balance
- Front end alignment off
- **Air in hydraulic system**

Reduced Wheel Cut

- Axle Stops broken or missing
- **Pitman Arm timing marks**
- **Poppets not set correctly**
- Misadjusted draglink
- **Steering pump or gear internal leakage**

Binding

- U-Joints, lack of grease or excessive wear
- Steering Column or u-joints not phased properly
- Gear to frame is missing washers or spacers
- Check king pins, steering linkage (tie rods) load bearings
- Overload on front axle
- Front wheel bearing adjustment
- Air in system

Intermittent Lockup (hard, easy, hard)

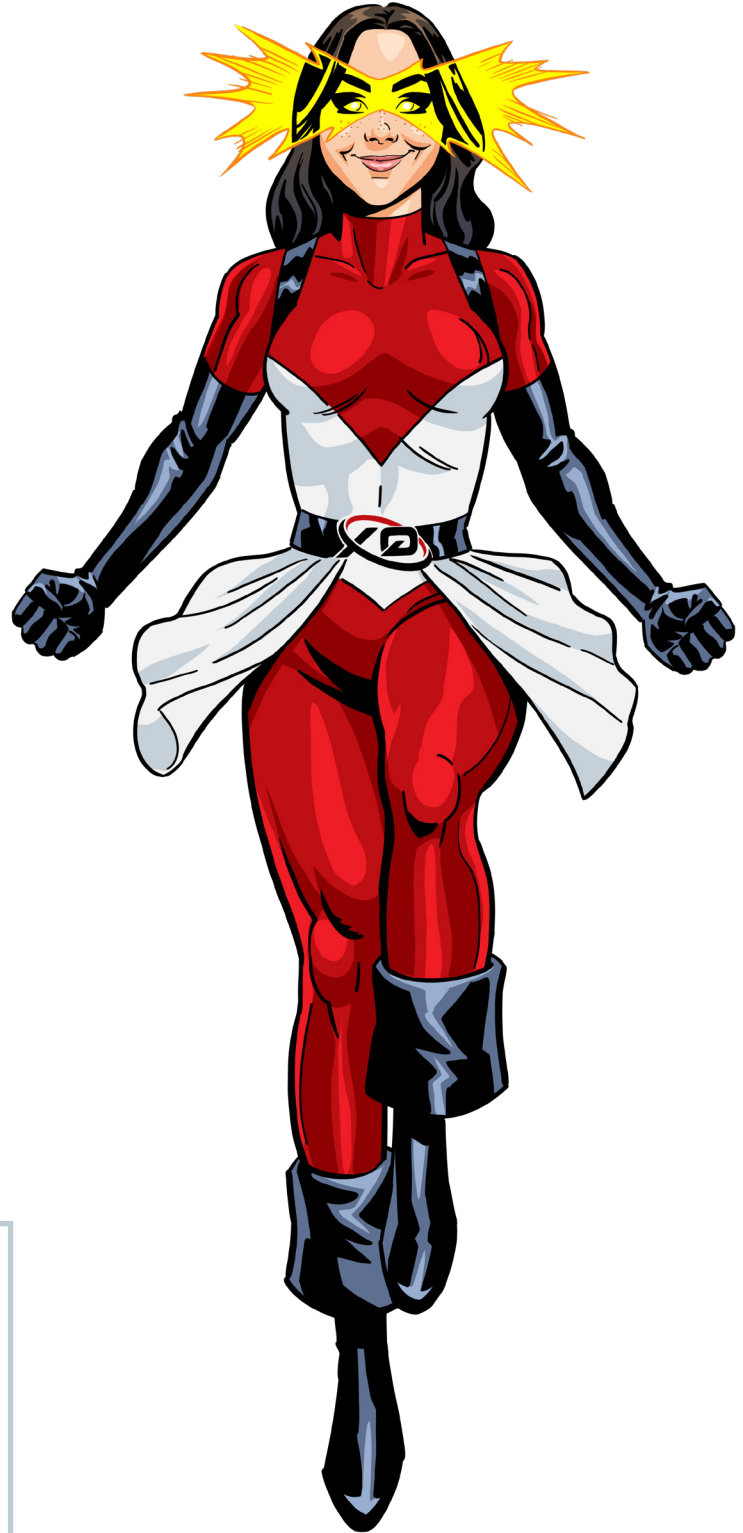
- Faulty u-joints, steering column, tie rod ends

Hard Steering in one or both directions

- **Faulty power steering pump**
- **Material in the piston, not allowing ball to seat**
- Steering out of alignment
- Bind in steering column
- King pins / load bearings
- **Steering gear internal leakage (piston spring broken)**
- Caster degree incorrect (alignment)
- Excessive weight on front axle

When to re-adjust poppets:

- Changing to larger tires
- Reduced wheel cut
- Pitman arm timing off
- **Steering gear getting installed on different truck**
- Steer axle stops bent, missing or broken
- Steer axle u-bolts bent, broken or loose



This QXHD Steering Gear has been manufactured to OE specifications, and tested for proper orientation prior to shipment.

To protect your investment and comply with your warranty, it is important that these instructions be closely followed.

AFTER REMOVAL OF EXISTING STEERING GEAR, AND BEFORE YOU BEGIN NEW INSTALLATION, the oil and oil filter in the power steering systems should be changed. All lines and fittings should be flushed of any possible contaminants. Flushing instructions are included on the next page. Use fluid recommended by manufacturer.

IF THE POWER STEERING PUMP HAS BEEN REPLACED, MAKE SURE THE PRESSURE AND FLOW ARE WORKING TO SPEC BEFORE PROCEEDING. Transfer hose fittings from the old gear to the new one. We recommend you replace the o-rings at this time.

OK, LET'S GET STARTED

1. Verify that the axle stops are in place, and are set to the manufacturer's wheelcut or clearance specifications.
2. Bolt the new steering gear to frame and torque to manufacturer's specifications.
3. Connect the reservoir return line to the steering gear return port.
4. Connect the hydraulic line from the pump to the steering gear pressure port. For M-Series gears, the inlet and outlet ports are staggered. The inlet port is always closest to the output shaft.

TAKE A BREAK :) THEN MAKE SURE ALL HOSES ARE ROUTED WITH NO KINKS IN THE LINE

5. Torque the pinch bolt to the vehicle manufacturer's specification.
6. Connect the steering column coupler to the input shaft on the new steering gear
7. Install the pitman arm on the new steering gear's output shaft and align the timing marks per vehicle manufacturer's recommendation. **MAKE SURE WHEELS ARE IN THE STRAIGHT AHEAD POSITION, AND WHEN LINING UP THE PITMAN ARM WITH THE TIMING MARK ON THE OUTPUT SHAFT, DO NOT MOVE THE SHAFT MORE THAN 1 OR 2 INCHES.**
8. Connect the drag link to the pitman arm.
9. Fill the power steering system with the approved fluid. **DO NOT ALLOW THE RESERVOIR TO RUN DRY.**
10. Perform steering system air bleeding procedure.

SETTING THE POPPETS ON A NEW STEERING GEAR

1. Make sure the axle stop bolts are set to vehicle manufacturer's wheelcut or clearance specifications.
2. **RAISE THE FRONT END SO THE STEER AXLE TIRES ARE OFF THE GROUND.**
3. Start the engine and let it idle.
4. Steer the vehicle in one direction until you hit the axle stop. **PULL HARD** as these poppets are tight! Unlike remanufactured gears, this is a brand new steering gear with no internal wear.
5. Repeat #4 in the opposite direction.
6. Turn the vehicle off.

LOWER THE VEHICLE, REMOVE THE JACK, AND KEEP ON TRUCKIN' :)

MODELS WITH BLEEDER SCREW

1. Start the engine.
2. Make sure the wheels are in the straight ahead position.
3. Locate the bleeder screw, if equipped.
4. Loosen the bleeder screw and let the fluid bleed out until there are no visible air bubbles in the fluid.
5. Re-tighten the bleeder screw, and turn the wheels all the way to the right.
6. Loosen the bleeder screw again and let the fluid bleed out until there are no visible air bubbles in the fluid.
7. Re-tighten the bleeder screw, and turn the wheels all the way to the left.
8. Repeat steps 2-7 until all air is purged from the system.

NOTE: DO NOT TURN THE STEERING WHEEL WHILE THE BLEEDER SCREW IS LOOSE, AS THIS WILL CREATE MORE AIR BUBBLES.

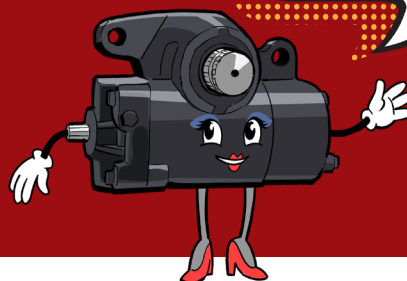
MODELS WITHOUT BLEEDER SCREW

1. Do not start the engine.
2. Lift the front tires off of the ground.
3. Remove the reservoir cap, and turn the steering wheel both directions until you hit the axle stops. There should be a good amount of fluid in the reservoir.
4. Keep turning the steering wheel all the way right, and all the way left until there are no visible air bubbles coming out of the fluid in the reservoir.

FLUSHING THE SYSTEM

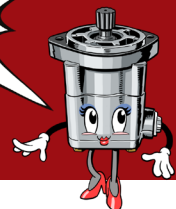
1. Plug the return line going TO the pump
2. DO NOT connect the pressure line to the gear. Place it in a suitable container.
3. Fill and maintain the reservoir level with new fluid.
4. Without starting the engine, crank the engine for several seconds until the fluid runs clean from the return hose.
5. Reconnect the hoses to the steering gear.

**RIDDING THE WORLD OF
DIRTY CORES
SINCE 2015!**



DID YOU KNOW?
**ALL OF OUR PRODUCTS ARE BRAND
NEW WITH NO CORE REQUIREMENTS.**

THAT'S RIGHT!



FLUSH THE SYSTEM

1. Disconnect the return line from the gear where it's attached to the reservoir
2. Set the return line into (at least) a 2 gallon container
3. Temporarily plug the reservoir return port tube or fitting
4. Fill reservoir with recommended fluid
5. Disconnect ignition system
6. Lift the front tires off the ground
7. Set safety chocks
8. Engage starter motor and turn wheels simultaneously to full travel until oil is no longer pumped
9. Unplug reservoir return port tube or fitting
10. Reconnect the return line to the reservoir
11. Remove contaminated oil filter (if so equipped)
12. Wipe reservoir clean with a clean shop towel
13. Replace oil filter
14. Fill reservoir to capacity
15. Reconnect ignition systems
16. Start engine and run for 30 seconds.
17. Shut engine off
18. Use MFG recommended fluid to fill the pump reservoir just enough to cover the internal filter
19. Start the engine and let idle for a few minutes
20. Cycle the steering wheel a few times to purge trapped air
21. If your dipstick shows HOT FILL ONLY, allow the truck to reach the operating temperature before turning off the engine
22. If your dipstick has COLD FILL marks, the engine may be stopped after cycling
23. Fill to indicated levels on site gauge or dipstick

CHEERS, GOOD SIR. GREAT JOB.**BLEED THE LINES**

1. Check your poppets and make sure they are set properly
2. Fill the reservoir (almost) full
3. Do not steer
4. Start the engine and run it for 10 seconds, then shut it off
5. Check and refill the reservoir
6. Repeat 3 times (or more) and check the oil every time
7. Start the engine and let it idle for a few minutes
8. Do not steer
9. Shut the engine off and check the fluid level in the reservoir
10. Refill as required
11. Start the engine again
12. Steer the vehicle from all the way left, to all the way right
13. Add fluid to the fill line on the dipstick
14. While idling, steer from all the way left, to all the way right
15. Do it again
16. One more time
17. Stop the steering wheel with tires facing straight and loosen the bleeder screw

Note: all steering gears do not have a bleed screw. Do not loosen random bolts.

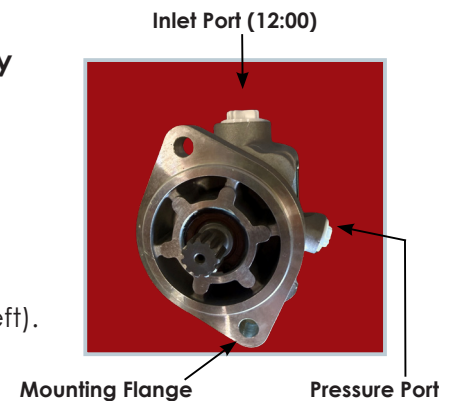
18. Allow air and fluid to bleed out until fluid is clean
19. If it's still sparkling, you aren't done
20. Tighten the bleeder screw (if equipped)
21. Check the reservoir and refill if needed
22. Repeat steps 14-21 as many times as needed until there is no more air in the lines
23. Take a break, that was a lot. Whew!

BY GOLLY YOU'VE DONE IT. NICE WORK.

HOW TO IDENTIFY A POWER STEERING PUMP

It is always best to compare the tag number with the cross reference guide. Alternatively, correct pump identification can be achieved by following these steps:

1. View pump from the shaft end.
2. Orient the inlet port (large port) at 12:00.
3. Note the location of the pressure port — right side or left side.
4. Note the mounting flange holes — horizontal or vertical.
5. Note port sizes and pressure & flow specs.
6. Note pump rotation when viewed from shaft end; CW (right) or CCW (left).
7. Compare specs with chart on next page and illustrations.



Prior to pump installation, check all of the hoses and fittings, replace all O-Rings.

We also recommend you prime the pump before installation.
To prime the pump, fill it with fluid and spin the shaft with your finger.

BONUS!

This gives you a chance to verify your rotation, which helps to ensure you have the correct replacement pump.

1. Install the new Power Steering Pump
2. Flush the system
3. Install the new filter
4. Lift the front axle off of the ground
5. Start the engine and let it idle
6. Check the fluid levels
7. Steer all the way to the left, and all the way to the right
8. Repeat this several times
9. Re-check the fluid levels



INSTALLATION

**NEED MORE HELP ?
GIVE OUR TECH GUY A TRY!
CALL (888) 803-QXHD AND
PRESS 1 TO REACH HIM!**

QXHD Part #	Make	Model	Years	Style	Lines	OEM Part #	Casting Part #	Reman Part #
QXG-40042	Ford	FT800	1995	TRW	2	4C4Z 3504 BA	TAS402285	TAS40042R
QXG-40042	Ford	FT800	1995	TRW	2	4C4Z 3504 BA	TAS402594	TAS40042R
QXG-40042	Ford	FT800	1995	TRW	2	C4Z 3504 C	TAS402285	TAS40042R
QXG-40042	Ford	FT800	1995	TRW	2	C4Z 3504 C	TAS402594	TAS40042R
QXG-40042	Ford	FT800	1995	TRW	2	STG264	TAS402285	TAS40042R
QXG-40042	Ford	FT800	1995	TRW	2	STG264	TAS402594	TAS40042R
QXG-60010	Freightliner	Cascadia	2012	TRW	2	THP60017	THP602295	THP60017
QXG-60010	Freightliner	Cascadia	2016-2017	TRW	2	THP60017	THP602295	THP60017
QXG-60010	Freightliner	Columbia	2005	TRW	2	THP60017	THP602295	THP60017
QXG-60010	Freightliner	M2	2011	TRW	2	THP60017	THP602295	THP60017
QXG-60010	Freightliner	M2	2016	TRW	2	THP60017	THP602295	THP60017
QXG-60008	Freightliner	9000	2005-2007	TRW	4	14-14741-000	THP602295	THP60008
QXG-60008	Freightliner	Cascadia	2008-2013	TRW	4	THP60008	THP602295	THP60008
QXG-60049	Freightliner	Cascadia	2008-2013	TRW	2	THP60049	THP602295	THP60049
QXG-60010	Freightliner	Cascadia	2009-2015	TRW	2	14-15701-000	THP602295	THP60010
QXG-60010	Freightliner	Cascadia	2009-2015	TRW	2	14-15702-000	THP602295	THP60010
QXG-60010	Freightliner	Cascadia	2009-2015	TRW	2	14-17726-000	THP602295	THP60010
QXG-60010	Freightliner	Cascadia	2009-2015	TRW	2	14-17727-000	THP602295	THP60010
QXG-60054	Freightliner	Cascadia	2018-Present	TRW	2	14-19697-000	THP602274	THP60054
QXG-60010	Freightliner	Century	2006	TRW	2	14-15701-000	THP602295	THP60010
QXG-60010	Freightliner	Century	2006	TRW	2	14-15702-000	THP602295	THP60010
QXG-60010	Freightliner	Century	2006	TRW	2	14-17726-000	THP602295	THP60010
QXG-60010	Freightliner	Century	2006	TRW	2	14-17727-000	THP602295	THP60010
QXG-65004	Freightliner	Century	1995-2007	TRW	4	14-17712-000	TAS652295	TAS65004
QXG-65004	Freightliner	Century	1995-2007	TRW	4	14-10334-000	TAS652295	TAS65004
QXG-65004	Freightliner	Century	1995-2007	TRW	4	14-10334-001	TAS652295	TAS65004
QXG-65004	Freightliner	Century	1995-2007	TRW	4	14-15664-000	TAS652295	TAS65004
QXG-65155	Freightliner	Century	1997-2005	TRW	2	14-13451-000	TAS652262	TAS65155
QXG-65155	Freightliner	Century	1997-2005	TRW	2	14-13451-001	TAS652262	TAS65155
QXG-65155	Freightliner	Century	1997-2005	TRW	2	14-13452-000	TAS652262	TAS65155
QXG-65155	Freightliner	Century	1997-2005	TRW	2	14-13452-001	TAS652262	TAS65155
QXG-65157	Freightliner	Century	1997-2005	TRW	2	14-13451-000	TAS652262	TAS65155
QXG-65157	Freightliner	Century	1997-2005	TRW	2	14-13451-001	TAS652262	TAS65155
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QXG-65155	Freightliner	Century	1998-2005	TRW	2	14-13451-000	TAS652262	TAS65157
QXG-65155	Freightliner	Century	1998-2005	TRW	2	14-13451-001	TAS652262	TAS65157
QXG-65155	Freightliner	Century	1998-2005	TRW	2	14-13452-000	TAS652262	TAS65157
QXG-65155	Freightliner	Century	1998-2005	TRW	2	14-13452-001	TAS652262	TAS65157
QXG-65157	Freightliner	Century	1998-2005	TRW	2	14-13451-000	TAS652262	TAS65157
QXG-65157	Freightliner	Century	1998-2005	TRW	2	14-13451-001	TAS652262	TAS65157

QXHD Part #	Make	Model	Years	Style	Lines	OEM Part #	Casting Part #	Reman Part #
QXG-65157	Freightliner	Century	1998-2005	TRW	2	14-13452-000	TAS652262	TAS65157
QXG-65157	Freightliner	Century	1998-2005	TRW	2	14-13452-001	TAS652262	TAS65157
QXG-65004	Freightliner	Columbia	1999	TRW	4	14-10334-000	TAS652295	TAS65004
QXG-65004	Freightliner	Columbia	1999	TRW	4	14-10334-001	TAS652295	TAS65004
QXG-65004	Freightliner	Columbia	1999	TRW	4	14-15664-000	TAS652295	TAS65004
QXG-65004	Freightliner	Columbia	1999	TRW	4	14-17712-000	TAS652295	TAS65004
QXG-65155	Freightliner	Columbia	2001-2005	TRW	2	14-13451-000	TAS652262	TAS65157
QXG-65155	Freightliner	Columbia	2001-2005	TRW	2	14-13451-001	TAS652262	TAS65157
QXG-65155	Freightliner	Columbia	2001-2005	TRW	2	14-13452-000	TAS652262	TAS65157
QXG-65155	Freightliner	Columbia	2001-2005	TRW	2	14-13452-001	TAS652262	TAS65157
QXG-65157	Freightliner	Columbia	2001-2005	TRW	2	14-13451-000	TAS652262	TAS65157
QXG-65157	Freightliner	Columbia	2001-2005	TRW	2	14-13451-001	TAS652262	TAS65157
QXG-65157	Freightliner	Columbia	2001-2005	TRW	2	14-13452-000	TAS652262	TAS65157
QXG-65157	Freightliner	Columbia	2001-2005	TRW	2	14-13452-001	TAS652262	TAS65157
QXG-65155	Freightliner	Columbia	2001-2007	TRW	2	14-13451-000	TAS652262	TAS65155
QXG-65155	Freightliner	Columbia	2001-2007	TRW	2	14-13451-001	TAS652262	TAS65155
QXG-65155	Freightliner	Columbia	2001-2007	TRW	2	14-13452-000	TAS652262	TAS65155
QXG-65155	Freightliner	Columbia	2001-2007	TRW	2	14-13452-001	TAS652262	TAS65155
QXG-65157	Freightliner	Columbia	2001-2007	TRW	2	14-13451-000	TAS652262	TAS65155
QXG-65157	Freightliner	Columbia	2001-2007	TRW	2	14-13451-001	TAS652262	TAS65155
QXG-65157	Freightliner	Columbia	2001-2007	TRW	2	14-13452-000	TAS652262	TAS65155
QXG-65157	Freightliner	Columbia	2001-2007	TRW	2	14-13452-001	TAS652262	TAS65155
QXG-60010	Freightliner	Columbia	2005-2009	TRW	2	14-15701-000	THP602295	THP60010
QXG-60010	Freightliner	Columbia	2005-2009	TRW	2	14-15702-000	THP602295	THP60010
QXG-60010	Freightliner	Columbia	2005-2009	TRW	2	14-17726-000	THP602295	THP60010
QXG-60010	Freightliner	Columbia	2005-2009	TRW	2	14-17727-000	THP602295	THP60010
QXG-60049	Freightliner	Columbia	2007-2010	TRW	2	THP60049	THP602295	THP60049
QXG-60008	Freightliner	Columbia	2007-2010	TRW	4	THP60008	THP602295	THP60008
QXG-85142	Freightliner	Coronado	2012	TRW	2	14-14945-000	TAS852275	TAS85142
QXG-85142	Freightliner	Coronado	2012	TRW	2	14-15332-000	TAS852275	TAS85142
QXG-85142	Freightliner	Coronado	2012	TRW	2	14-15332-001	TAS852275	TAS85142
QXG-85142	Freightliner	Coronado	2012	TRW	2	14-19117-000	TAS852275	TAS85142
QXG-85142	Freightliner	Coronado	2012	TRW	2	14-19372-000	TAS852275	TAS85142
QXG-60008	Freightliner	D2	2005-2007	TRW	4	14-14741-000	THP602295	THP60008
QXG-60008	Freightliner	D2	2005-2007	TRW	4	14-15331-000	THP602295	THP60008
QXG-60008	Freightliner	D2	2005-2007	TRW	4	14-15331-000	THP602295	THP60008
QXG-60008	Freightliner	D2	2005-2007	TRW	4	14-17725-000	THP602295	THP60008
QXG-60008	Freightliner	D2	2005-2007	TRW	4	14-17725-000	THP602295	THP60008
QXG-65004	Freightliner	FC	1988-1997	TRW	4	14-10334-000	TAS652295	TAS65004
QXG-65004	Freightliner	FC	1988-1997	TRW	4	14-10334-001	TAS652295	TAS65004
QXG-65004	Freightliner	FC	1988-1997	TRW	4	14-15664-000	TAS652295	TAS65004
QXG-65004	Freightliner	FC	1988-1997	TRW	4	14-17712-000	TAS652295	TAS65004

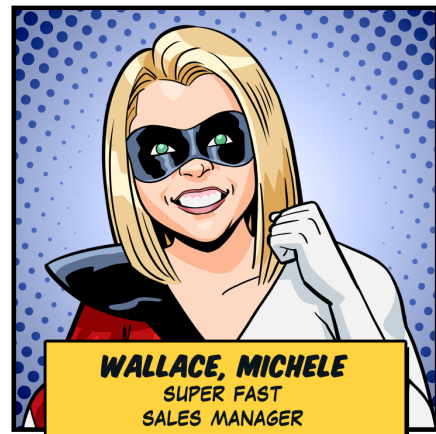
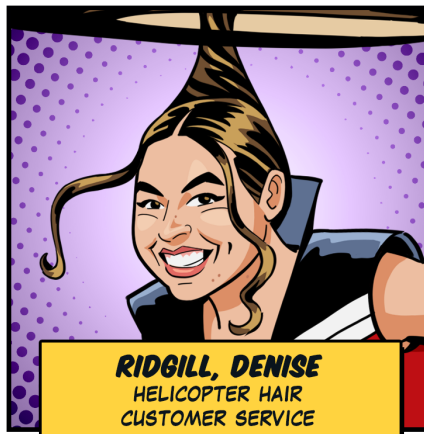
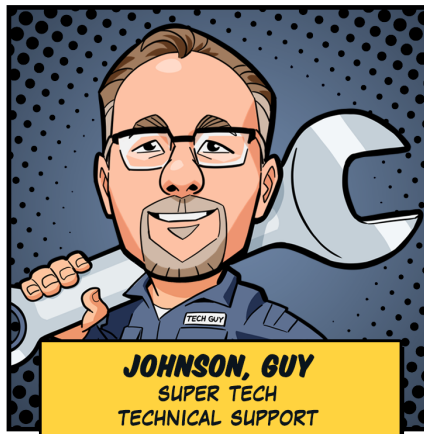
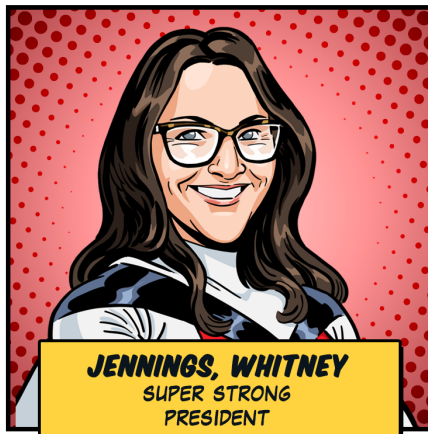
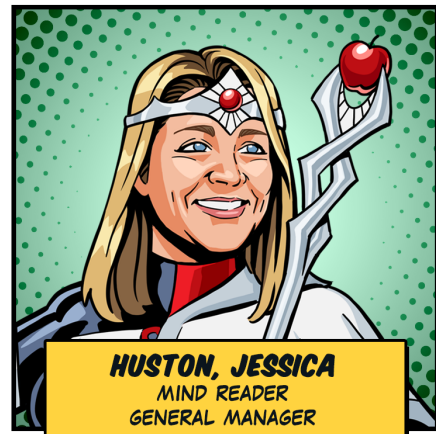
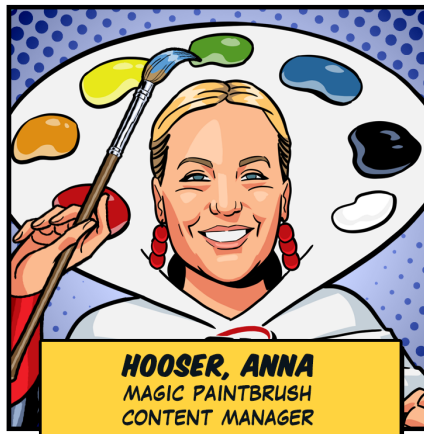
QXHD Part #	Make	Model	Years	Style	Lines	OEM Part #	Casting Part #	Reman Part #
QXG-65155	Freightliner	FL	1995-2001	TRW	2	14-13451-000	TAS652262	TAS65155
QXG-65155	Freightliner	FL	1995-2001	TRW	2	14-13451-001	TAS652262	TAS65155
QXG-65155	Freightliner	FL	1995-2001	TRW	2	14-13452-000	TAS652262	TAS65155
QXG-65155	Freightliner	FL	1995-2001	TRW	2	14-13452-001	TAS652262	TAS65155
QXG-65157	Freightliner	FL	1995-2001	TRW	2	14-13451-000	TAS652262	TAS65155
QXG-65157	Freightliner	FL	1995-2001	TRW	2	14-13451-001	TAS652262	TAS65155
QXG-65157	Freightliner	FL	1995-2001	TRW	2	14-13452-000	TAS652262	TAS65155
QXG-65157	Freightliner	FL	1995-2001	TRW	2	14-13452-001	TAS652262	TAS65155
QXG-65155	Freightliner	FL	2000-2003	TRW	2	14-13451-000	TAS652262	TAS65157
QXG-65155	Freightliner	FL	2000-2003	TRW	2	14-13451-001	TAS652262	TAS65157
QXG-65155	Freightliner	FL	2000-2003	TRW	2	14-13452-000	TAS652262	TAS65157
QXG-65155	Freightliner	FL	2000-2003	TRW	2	14-13452-001	TAS652262	TAS65157
QXG-65157	Freightliner	FL	2000-2003	TRW	2	14-13451-000	TAS652262	TAS65157
QXG-65157	Freightliner	FL	2000-2003	TRW	2	14-13451-001	TAS652262	TAS65157
QXG-65157	Freightliner	FL	2000-2003	TRW	2	14-13452-000	TAS652262	TAS65157
QXG-65157	Freightliner	FL	2000-2003	TRW	2	14-13452-001	TAS652262	TAS65157
QXG-60010	Freightliner	FL	2000-2009	TRW	2	14-15701-000	THP602295	THP60010
QXG-60010	Freightliner	FL	2000-2009	TRW	2	14-15702-000	THP602295	THP60010
QXG-60010	Freightliner	FL	2000-2009	TRW	2	14-17726-000	THP602295	THP60010
QXG-60010	Freightliner	FL	2000-2009	TRW	2	14-17727-000	THP602295	THP60010
QXG-65004	Freightliner	FLC	1986-1995	TRW	4	14-10334-000	TAS652295	TAS65004
QXG-65004	Freightliner	FLC	1986-1995	TRW	4	14-10334-001	TAS652295	TAS65004
QXG-65004	Freightliner	FLC	1986-1995	TRW	4	14-15664-000	TAS652295	TAS65004
QXG-65004	Freightliner	FLC	1986-1995	TRW	4	14-17712-000	TAS652295	TAS65004
QXG-60006	Freightliner	FLC	2004-2007	TRW	4	14-15040-000	THP602299	THP60006
QXG-60006	Freightliner	FLC	2004-2007	TRW	4	14-17724-000	THP602299	THP60006
QXG-65155	Freightliner	FLD	2002	TRW	2	14-13451-000	TAS652262	TAS65157
QXG-65155	Freightliner	FLD	2002	TRW	2	14-13451-001	TAS652262	TAS65157
QXG-65155	Freightliner	FLD	2002	TRW	2	14-13452-000	TAS652262	TAS65157
QXG-65155	Freightliner	FLD	2002	TRW	2	14-13452-001	TAS652262	TAS65157
QXG-65157	Freightliner	FLD	2002	TRW	2	14-13451-000	TAS652262	TAS65157
QXG-65157	Freightliner	FLD	2002	TRW	2	14-13451-001	TAS652262	TAS65157
QXG-65157	Freightliner	FLD	2002	TRW	2	14-13452-000	TAS652262	TAS65157
QXG-65157	Freightliner	FLD	2002	TRW	2	14-13452-001	TAS652262	TAS65157
QXG-60006	Freightliner	M2	2005	TRW	4	14-15040-000	THP602299	THP60006
QXG-60006	Freightliner	M2	2005	TRW	4	14-17724-000	THP602299	THP60006
QXG-65004	Freightliner	M2	2007	TRW	4	14-10334-000	TAS652295	TAS65004
QXG-65004	Freightliner	M2	2007	TRW	4	14-10334-001	TAS652295	TAS65004
QXG-65004	Freightliner	M2	2007	TRW	4	14-15664-000	TAS652295	TAS65004
QXG-65004	Freightliner	M2	2007	TRW	4	14-17712-000	TAS652295	TAS65004
QXG-85142	Freightliner	M2	2005-2006	TRW	2	14-14945-000	TAS852275	TAS85142
QXG-85142	Freightliner	M2	2005-2006	TRW	2	14-15332-000	TAS852275	TAS85142

QXHD Part #	Make	Model	Years	Style	Lines	OEM Part #	Casting Part #	Reman Part #
QXG-85142	Freightliner	M2	2005-2006	TRW	2	14-15332-001	TAS852275	TAS85142
QXG-85142	Freightliner	M2	2005-2006	TRW	2	14-19117-000	TAS852275	TAS85142
QXG-85142	Freightliner	M2	2005-2006	TRW	2	14-19372-000	TAS852275	TAS85142
QXG-60008	Freightliner	M2	2008-2012	TRW	4	THP60008	THP602295	THP60008
QXG-60049	Freightliner	M2	2008-2012	TRW	2	THP60049	THP602295	THP60049
QXG-60010	Freightliner	M2	2008-2014	TRW	2	14-15701-000	THP602295	THP60010
QXG-60010	Freightliner	M2	2008-2014	TRW	2	14-15702-000	THP602295	THP60010
QXG-60010	Freightliner	M2	2008-2014	TRW	2	14-17726-000	THP602295	THP60010
QXG-60010	Freightliner	M2	2008-2014	TRW	2	14-17727-000	THP602295	THP60010
QXG-55016	Freightliner	MT 55	2000-2012	TRW	2	14-15451-000	TAS552299	TAS55016
QXG-55016	Freightliner	MT 55	2000-2012	TRW	2	14-17893-000	TAS552299	TAS55016
QXG-65155	Freightliner	ST	2001-2005	TRW	2	14-13451-000	TAS652262	TAS65155
QXG-65155	Freightliner	ST	2001-2005	TRW	2	14-13451-001	TAS652262	TAS65155
QXG-65155	Freightliner	ST	2001-2005	TRW	2	14-13452-000	TAS652262	TAS65155
QXG-65155	Freightliner	ST	2001-2005	TRW	2	14-13452-001	TAS652262	TAS65155
QXG-65157	Freightliner	ST	2001-2005	TRW	2	14-13451-000	TAS652262	TAS65155
QXG-65157	Freightliner	ST	2001-2005	TRW	2	14-13451-001	TAS652262	TAS65155
QXG-65157	Freightliner	ST	2001-2005	TRW	2	14-13452-000	TAS652262	TAS65155
QXG-65157	Freightliner	ST	2001-2005	TRW	2	14-13452-001	TAS652262	TAS65155
QXG-100PCL	International	2000	1991-1999	Sheppard	4	1659881C91	M100 MAN	M100PCL
QXG-100PCL	International	2000	1991-1999	Sheppard	4	2020263C91	M100 MAN	M100PCL
QXG-100PCL	International	2000	1991-1999	Sheppard	4	3589106C91	M100 MAN	M100PCL
QXG-55016	International	4000	1990-2005	TRW	2	14-15451-000	TAS552299	TAS55016
QXG-55016	International	4000	1990-2005	TRW	2	14-17893-000	TAS552299	TAS55016
QXG-100PCL	International	4000	1990-2002	Sheppard	4	1659881C91	M100 MAN	M100PCL
QXG-100PCL	International	4000	1990-2002	Sheppard	4	2020263C91	M100 MAN	M100PCL
QXG-100PCL	International	4000	1990-2002	Sheppard	4	3589106C91	M100 MAN	M100PCL
QXG-100PMT	International	4000	2003-2009	Sheppard	2	354373C91	M100 Man	M100PMT
QXG-100PMT	International	4000	2003-2009	Sheppard	2	3533789C92	M100 Man	M100PMT
QXG-40042	International	4000	2004-2012	TRW	2	3566388C91	TAS402285	TAS40042R
QXG-40042	International	4000	2004-2012	TRW	2	3566388C91	TAS402594	TAS40042R
QXG-100PMX	International	5000	2003-2003	Sheppard	3	3558088C91	M100 A/M	M100PMX
QXG-100PMX	International	7000	2002-2006	Sheppard	3	3558088C91	M100 A/M	M100PMX
QXG-100PHE	International	7000	2004-2006	Sheppard	3	3501032C91	M100 A/M	M100PHE3
QXG-100PHE	International	7000	2004-2006	Sheppard	3	3519043C91	M100 A/M	M100PHE3
QXG-100PAH	International	8000	1996	Sheppard	4	1657435C91	M100 Man	M100PAH
QXG-100PAH	International	8000	1996	Sheppard	4	25020098C91	M100 Man	M100PAH
QXG-100PCL	International	8000	1990-2002	Sheppard	4	1659881C91	M100 MAN	M100PCL
QXG-100PCL	International	8000	1990-2002	Sheppard	4	2020263C91	M100 MAN	M100PCL
QXG-100PCL	International	8000	1990-2002	Sheppard	4	3589106C91	M100 MAN	M100PCL
QXG-100PMX	International	8000	2004-2016	Sheppard	3	3558088C91	M100 A/M	M100PMX
QXG-100PAH	International	9000	1988-2003	Sheppard	4	1657435C91	M100 Man	M100PAH

QXHD Part #	Make	Model	Years	Style	Lines	OEM Part #	Casting Part #	Reman Part #
QXG-100PAH	International	9000	1988-2003	Sheppard	4	25020098C91	M100 Man	M100PAH
QXG-100PMX	International	9000	1996-2008	Sheppard	3	3558088C91	M100 A/M	M100PMX
QXG-100PHE	International	9000	1997-2006	Sheppard	3	3501032C91	M100 A/M	M100PHE3
QXG-100PHE	International	9000	1997-2006	Sheppard	3	3519043C91	M100 A/M	M100PHE3
QXG-94PAH	International	Prostar	1996	Sheppard	2	1657435C91	M100 Man	HD94PAH
QXG-94PAH	International	Prostar	1996	Sheppard	2	2502008C91	M100 Man	HD94PAH
QXG-94PAH	International	Prostar	1988-2003	Sheppard	2	1657435C91	M100 Man	HD94PAH
QXG-94PAH	International	Prostar	1988-2003	Sheppard	2	2502008C91	M100 Man	HD94PAH
QXG-65218	Kenworth	T2000	2006-2014	TRW	4	TAS65218AEXCH	TAS652249	TAS65218RMAN
QXG-65090	Kenworth	T400	1987-2006	TRW	4	TAS65090EXCH	TAS652274	TAS65090
QXG-65090	Kenworth	T400	1990-1992	TRW	4	TAS65080EXCH	TAS652294	TAS65007
QXG-65219	Kenworth	T400	2006-2014	TRW	4	TAS65219EXCH	TAS652248	TAS65219A
QXG-65219	Kenworth	T400	2006-2014	TRW	4	TAS65219RMAN	TAS652248	TAS65219A
QXG-85145	Kenworth	T400	2006-2014	TRW	4	TAS85145AEXCH	TAS852274	TAS85145
QXG-65090	Kenworth	T600	1987-2006	TRW	4	TAS65090EXCH	TAS652274	TAS65090
QXG-65218	Kenworth	T600	2006-2014	TRW	4	TAS65218AEXCH	TAS652249	TAS65218RMAN
QXG-65219	Kenworth	T600	2006-2014	TRW	4	TAS65219EXCH	TAS652248	TAS65219A
QXG-65219	Kenworth	T600	2006-2014	TRW	4	TAS65219RMAN	TAS652248	TAS65219A
QXG-85145	Kenworth	T600	2006-2014	TRW	4	TAS85145AEXCH	TAS852274	TAS85145
QXG-100PRZ	Kenworth	T600	2010-2014	Sheppard	3	M100PRZ	M100 AUTO	M100PRZ
QXG-60049	Kenworth	T600	2013-Present	TRW	2	J87-6028	THP602295	THP60049
QXG-94PAB	Kenworth	T600	2014-Present	Sheppard	2	14-183236	HD 94	HD94PAB
QXG-94PAB	Kenworth	T600	2014-Present	Sheppard	2	J87-6020	HD 94	HD94PAB
QXG-65218	Kenworth	T700	2006-2014	TRW	4	TAS65218AEXCH	TAS652249	TAS65218RMAN
QXG-65079	Kenworth	T800	2001	TRW	4	TAS65079EXCH	TAS652296	TAS65079
QXG-65218	Kenworth	T800	2005	TRW	4	TAS65218AEXCH	TAS652249	TAS65218RMAN
QXG-65090	Kenworth	T800	1987-2006	TRW	4	TAS65090EXCH	TAS652274	TAS65090
QXG-65219	Kenworth	T800	2006-2014	TRW	4	TAS65219EXCH	TAS652248	TAS65219A
QXG-65219	Kenworth	T800	2006-2014	TRW	4	TAS65219RMAN	TAS652248	TAS65219A
QXG-85145	Kenworth	T800	2006-2014	TRW	4	TAS85145AEXCH	TAS852274	TAS85145
QXG-65090	Kenworth	W900	1987-2006	TRW	4	TAS65090EXCH	TAS652274	TAS65090
QXG-65090	Kenworth	W900	1988-1999	TRW	4	TAS65080EXCH	TAS652294	TAS65007
QXG-65079	Kenworth	W900	1997-2009	TRW	4	TAS65079EXCH	TAS652296	TAS65079
QXG-65219	Kenworth	W900	2006-2014	TRW	4	TAS65219EXCH	TAS652248	TAS65219A
QXG-65219	Kenworth	W900	2006-2014	TRW	4	TAS65219RMAN	TAS652248	TAS65219A
QXG-85145	Kenworth	W900	2006-2014	TRW	4	TAS85145AEXCH	TAS852274	TAS85145
QXG-120PE1	Mack	TerraPro	2010-Present	Sheppard	4	XD120PE1	XD120	XD120PE1
QXG-85052	Peterbilt	357	2000-2006	TRW	4	10-02154	TAS852292	TAS85052
QXG-85052	Peterbilt	357	2000-2006	TRW	4	10-02345	TAS852292	TAS85052
QXG-85052	Peterbilt	357	2000-2006	TRW	4	10-02350	TAS852292	TAS85052

QXHD Part #	Make	Model	Years	Style	Lines	OEM Part #	Casting Part #	Reman Part #
QXG-65024	Peterbilt	362	1988-2010	TRW	4	RGT60005	TAS652292	TAS65024
QXG-65024	Peterbilt	362	1988-2010	TRW	4	10-02379	TAS652292	TAS65024
QXG-65024	Peterbilt	362	1988-2010	TRW	4	10-02428	TAS652292	TAS65024
QXG-65024	Peterbilt	362	1988-2010	TRW	4	10-02458	TAS652292	TAS65024
QXG-65219	Peterbilt	365	2006-2014	TRW	4	TAS65219EXCH	TAS652248	TAS65219A
QXG-65219	Peterbilt	365	2006-2014	TRW	4	TAS65219RMAN	TAS652248	TAS65219A
QXG-65219	Peterbilt	367	2006-2014	TRW	4	TAS65219EXCH	TAS652248	TAS65219A
QXG-65219	Peterbilt	367	2006-2014	TRW	4	TAS65219RMAN	TAS652248	TAS65219A
QXG-65024	Peterbilt	375	1988-2010	TRW	4	10-02379	TAS652292	TAS65024
QXG-65024	Peterbilt	375	1988-2010	TRW	4	10-02428	TAS652292	TAS65024
QXG-65024	Peterbilt	375	1988-2010	TRW	4	10-02458	TAS652292	TAS65024
QXG-65024	Peterbilt	375	1988-2010	TRW	4	RGT60005	TAS652292	TAS65024
QXG-65024	Peterbilt	377	1988-2010	TRW	4	10-02379	TAS652292	TAS65024
QXG-65024	Peterbilt	377	1988-2010	TRW	4	10-02428	TAS652292	TAS65024
QXG-65024	Peterbilt	377	1988-2010	TRW	4	10-02458	TAS652292	TAS65024
QXG-65024	Peterbilt	377	1988-2010	TRW	4	RGT60005	TAS652292	TAS65024
QXG-85052	Peterbilt	377	2000-2006	TRW	4	10-02154	TAS852292	TAS85052
QXG-85052	Peterbilt	377	2000-2006	TRW	4	10-02345	TAS852292	TAS85052
QXG-85052	Peterbilt	377	2000-2006	TRW	4	10-02350	TAS852292	TAS85052
QXG-65024	Peterbilt	378	1988-2010	TRW	4	10-02379	TAS652292	TAS65024
QXG-65024	Peterbilt	378	1988-2010	TRW	4	10-02428	TAS652292	TAS65024
QXG-65024	Peterbilt	378	1988-2010	TRW	4	10-02458	TAS652292	TAS65024
QXG-65024	Peterbilt	378	1988-2010	TRW	4	RGT60005	TAS652292	TAS65024
QXG-85052	Peterbilt	378	2000-2006	TRW	4	10-02154	TAS852292	TAS85052
QXG-85052	Peterbilt	378	2000-2006	TRW	4	10-02345	TAS852292	TAS85052
QXG-85052	Peterbilt	378	2000-2006	TRW	4	10-02350	TAS852292	TAS85052
QXG-65024	Peterbilt	379	1988-2010	TRW	4	10-02379	TAS652292	TAS65024
QXG-65024	Peterbilt	379	1988-2010	TRW	4	10-02428	TAS652292	TAS65024
QXG-65024	Peterbilt	379	1988-2010	TRW	4	10-02458	TAS652292	TAS65024
QXG-65024	Peterbilt	379	1988-2010	TRW	4	RGT60005	TAS652292	TAS65024
QXG-85052	Peterbilt	379	2000-2006	TRW	4	10-02154	TAS852292	TAS85052
QXG-85052	Peterbilt	379	2000-2006	TRW	4	10-02345	TAS852292	TAS85052
QXG-85052	Peterbilt	379	2000-2006	TRW	4	10-02350	TAS852292	TAS85052
QXG-85052	Peterbilt	380	2000-2006	TRW	4	10-02154	TAS852292	TAS85052
QXG-85052	Peterbilt	380	2000-2006	TRW	4	10-02345	TAS852292	TAS85052
QXG-85052	Peterbilt	380	2000-2006	TRW	4	10-02350	TAS852292	TAS85052
QXG-65219	Peterbilt	384	2006-2014	TRW	4	TAS65219EXCH	TAS652248	TAS65219A
QXG-65219	Peterbilt	384	2006-2014	TRW	4	TAS65219RMAN	TAS652248	TAS65219A
QXG-65024	Peterbilt	385	1988-2010	TRW	4	10-02379	TAS652292	TAS65024
QXG-65024	Peterbilt	385	1988-2010	TRW	4	10-02428	TAS652292	TAS65024
QXG-65024	Peterbilt	385	1988-2010	TRW	4	10-02458	TAS652292	TAS65024
QXG-65024	Peterbilt	385	1988-2010	TRW	4	RGT60005	TAS652292	TAS65024

QXHD Part #	Make	Model	Years	Style	Lines	OEM Part #	Casting Part #	Reman Part #
QXG-65219	Peterbilt	386	2006-2014	TRW	4	TAS65219EXCH	TAS652248	TAS65219A
QXG-65219	Peterbilt	386	2006-2014	TRW	4	TAS65219RMAN	TAS652248	TAS65219A
QXG-100PRZ	Peterbilt	386	2010-2013	Sheppard	3	M100PRZ	M100 AUTO	M100PRZ
QXG-65014	Peterbilt	387	2002-2016	TRW	2	14-17732-000	TAS652295	TAS65014
QXG-65219	Peterbilt	388	2006-2014	TRW	4	TAS65219EXCH	TAS652248	TAS65219A
QXG-65219	Peterbilt	388	2006-2014	TRW	4	TAS65219RMAN	TAS652248	TAS65219A
QXG-65219	Peterbilt	389	2006-2014	TRW	4	TAS65219EXCH	TAS652248	TAS65219A
QXG-65219	Peterbilt	389	2006-2014	TRW	4	TAS65219RMAN	TAS652248	TAS65219A
QXG-94PAB	Peterbilt	579	2014-2016	Sheppard	2	J87-6020	HD 94	HD94PAB
QXG-94PAB	Peterbilt	579	2014-2016	Sheppard	2	14-183236	HD 94	HD94PAB
QXG-60066	Peterbilt	579	2022-2026	TRW	2	THP60066	THP602295	THP60066
QXG-60049	Peterbilt	587	2010-2016	TRW	2	J87-6028	THP602295	THP60049
QXG-60010	Sterling	8000	2006	TRW	2	14-15701-000	THP602295	THP60010
QXG-60010	Sterling	8000	2006	TRW	2	14-15702-000	THP602295	THP60010
QXG-60010	Sterling	8000	2006	TRW	2	14-17726-000	THP602295	THP60010
QXG-60010	Sterling	8000	2006	TRW	2	14-17727-000	THP602295	THP60010
QXG-65004	Sterling	9000	2000-2002	TRW	4	14-17712-000	TAS652295	TAS65004
QXG-65004	Sterling	9000	2000-2002	TRW	4	14-10334-000	TAS652295	TAS65004
QXG-65004	Sterling	9000	2000-2002	TRW	4	14-10334-001	TAS652295	TAS65004
QXG-65004	Sterling	9000	2000-2002	TRW	4	14-15664-000	TAS652295	TAS65004
QXG-60010	Sterling	9000	2006-2010	TRW	2	14-15701-000	THP602295	THP60010
QXG-60010	Sterling	9000	2006-2010	TRW	2	14-15702-000	THP602295	THP60010
QXG-60010	Sterling	9000	2006-2010	TRW	2	14-17726-000	THP602295	THP60010
QXG-60010	Sterling	9000	2006-2010	TRW	2	14-17727-000	THP602295	THP60010
QXG-65014	Sterling	A9500	2002-2016	TRW	2	14-17732-000	TAS652295	TAS65014
QXG-65014	Sterling	AT9500	2002-2016	TRW	2	14-17732-000	TAS652295	TAS65014
QXG-65014	Sterling	L9500	2002-2016	TRW	2	14-17732-000	TAS652295	TAS65014
QXG-65014	Sterling	LT9500	2002-2016	TRW	2	14-17732-000	TAS652295	TAS65014
QXG-60004	Volvo	VN	2006-2014	TRW	2	20447236	THP602296	THP60004
QXG-60004	Volvo	VN	2006-2014	TRW	2	5026865	THP602296	THP60004
QXG-60008	Western Star	4700	2004-2014	TRW	4	THP60008	THP602295	THP60008
QXG-60008	Western Star	4800	2004-2014	TRW	4	THP60008	THP602295	THP60008
QXG-60008	Western Star	4900	2004-2014	TRW	4	THP60008	THP602295	THP60008
QXG-65014	Western Star	Constellation	2002-2016	TRW	2	14-17732-000	TAS652295	TAS65014



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1001382	QX-381-1	VICKERS PUMP	27
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23513015	QX-336-2	LUK PUMP	13
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3820856C91	QX-741	LUK PUMP	13
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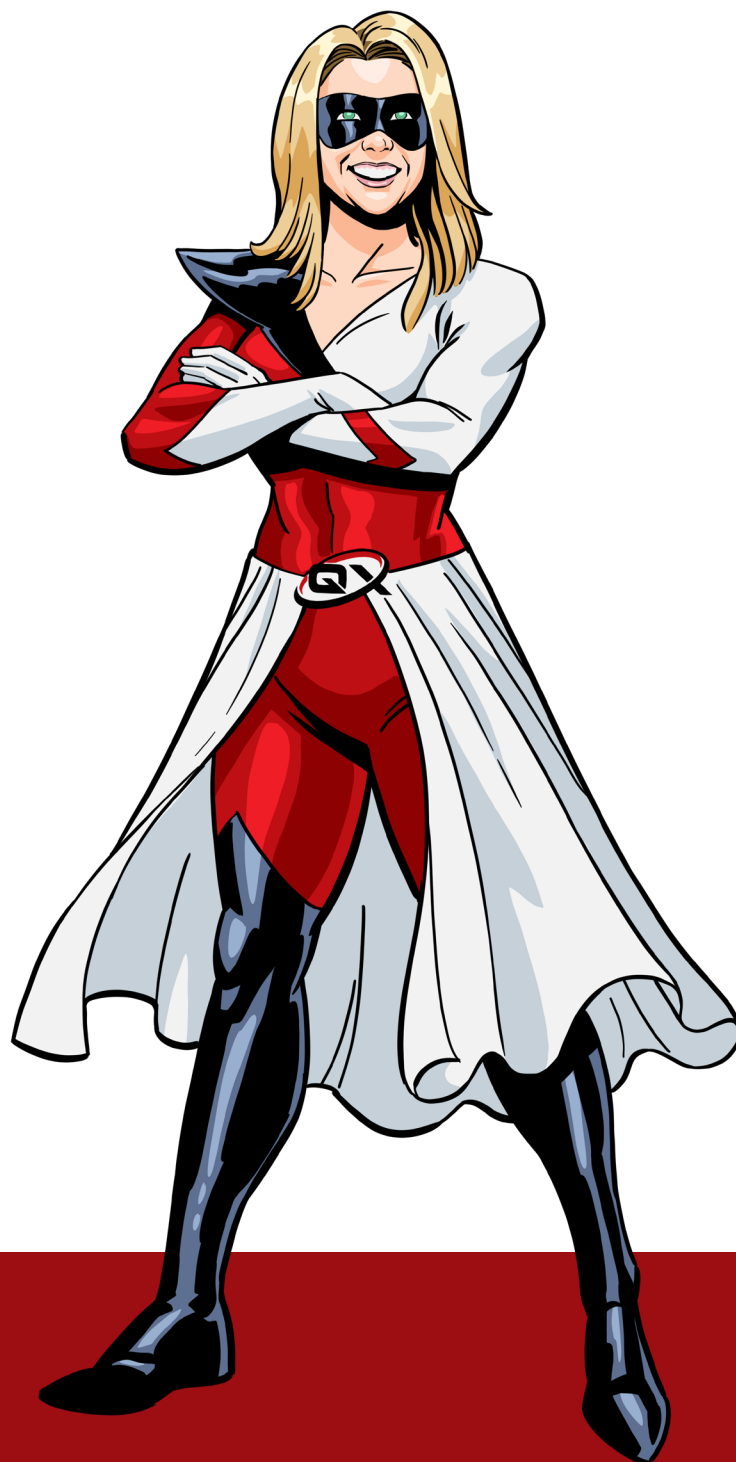
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The Ain't Freight Foundation is the charitable arm of QX Heavy Duty.

Our mission is to demonstrate compassion in action by raising awareness and funds for small charities that serve women impacted by human trafficking.

We are committed to empowering organizations that provide healing, restoration, and the resources survivors need to rebuild their lives and thrive.

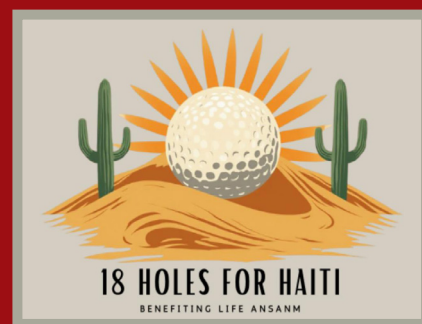


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