



## *Installation & Removal Tools*

*Inch*

*Ring Locked Studs and Inserts  
Ring Locked Size-On-Size Studs  
Thinwall Inserts  
Press Nuts & Bolts  
Fluid Adaptors*

## Ring Locked Stud and Insert Installation Tools



M1100W Series Lockring Wrench



M1100D Series Lockring Drive Tool



M100D Series Lockring Drive Tool

MI Part No. Wrench	Rosan* Part No. Wrench	MI Part No. LR Drive Tool	Rosan* Part No. LR Drive Tool	MI Part No. LR Drive Tool	Rosan* Part No. LR Drive Tool
M1102W	R1102W	M1102D	R1102D	M102D	R102D
M1103W	R1103W	M1103D	R1103D	M103D	R103D
M1104W	R1104W	M1104D	R1104D	M104D	R104D
M1105W	R1105W	M1105D	R1105D	M105D	R105D
M1106W	R1106W	M1106D	R1106D	M106D	R106D
M1107XW	R1107XW	M1107D	R1107D	MA107D	RA107D
M1108W	R1108W	M1108D	R1108D	M108D	R108D
M1110W	R1110W	M1110D	R1110D	M109D	R109D
	R1111W	M1111D	R1111D	M110D	R110D
M1112W	R1112W	M1112D	R1112D	M111D	R111D
M1113W	R1113W	M1113D	R1113D	M112D	R112D
M1114W	R1114W	M1114D	R1114D	M113D	R113D
M1115W	R1115W	M1115D	R1115D	M114D	R114D
M1116W	R1116W	M1116D	R1116D	M115D	R115D
M1117W	R1117W	M1117D	R1117D		



M1700D Series Lockring Drive Tool



M3600D Series Lockring Drive Tool

MI Part No. LR Drive	Rosan* Part LR Drive	MI Part No. LR Drive	Rosan* Part LR Drive	MI Part No. LR Drive	Rosan* Part LR Drive
M205D	R205D	M1706D	R1706D	M3605D	R3605D
	R206D	M1707D	R1707D	M3608D	R3608D
MA207D	RA207D	M1708D	R1708D	M3715D	R3715D
M208D	R208D	M1711D	R1711D		
M209D	R209D	M1713D	R1713D		
M210D	R210D				
M211D	R211D				
M212D	R212D				
M213D	R213D	MCRB2112	CRB2112D		
M214D	R214D				
M315D	R315D				
M215D	R215D				

## *Ring Locked Stud Installation Tools*



M( )DH and M( )D Series Lockring Drive Tools

MI Part No. LR Drive Tool	Rosan* Part No. LR Drive Tool	MI Part No. LR Drive Tool	Rosan* Part No. LR Drive Tool
M71DH9	S71DH9	M121DH32	S121DH32
	S81DH9	M131DH12	S131DH12
M81DH10	S81DH10	M131DH14	S131DH14
M91DH10	S91DH10	M131DH24	S131DH24
M91DH13	S91DH13	M141DH14	S141DH14
M91DH20	S91DH20	M141DH20	S141DH20
M101DH12	S101DH12	M151DH16	S151DH16
M101DH16	S101DH16	M161DH20	S161DH20
M101DH28	S101DH28	M181DH18	S181DH18
M11DHD12	S111DH12	M181DH24	S181DH24
M111DH16	S111DH16	M181DH26	S181DH26
M114DH12	S114DH12	M181DH27	S181DH27
M121DH12	S121DH12	M201DH20	S201DH20
M121DH13	S121DH13	M221DH22	S221DH22
M121DH20	S121DH20	M221DH28	S221DH28
M121DH23	S121DH23	M221DH36	S221DH36
M121DH29	S121DH29		

MI Part No. LR Drive Tool	Rosan* Part No. LR Drive Tool	MI Part No. LR Drive Tool	Rosan* Part No. LR Drive Tool
M71D9	S71D9	M121D32	S121D32
M81D9	S81D9	M131D12	S131D12
M81D10	S81D10	M131D14	S131D14
M91D10	S91D10	M131D24	S131D24
M91D13	S91D13	M141D14	S141D14
M91D20	S91D20	M141D20	S141D20
M101D12	S101D12	M151D16	S151D16
M101D16	S101D16	M161D20	S161D20
M101D28	S101D28	M181D18	S181D18
M111D12	S111D12	M181D24	S181D24
M111D16	S111D16	M181D26	S181D26
M114D12	S114D12	M181D27	S181D27
M121D12	S121D12	M201D20	S201D20
M121D13	S121D13	M221D22	S221D22
M121D20	S121D20	M221D28	S221D28
M121D23	S121D23	M221D36	S221D36
M121D29	S121D29		

## *Ring Locked Stud Installation Tools*



MF59( )D and MFR59( )D Series Lockring Drive Tool

MI Part No. LR Drive Tool	Rosan* Part No. LR Drive Tool	MI Part No. LR Drive Tool	Rosan* Part No. LR Drive Tool
MF5902-2D	SF5902-2D	MFR5902-2D	SFR5902-2D
MF5902-3D	SF5902-3D	MFR5902-3D	SFR5902-3D
MF5902-4D	SF5902-4D	MFR5902-4D	SFR5902-4D
MF5902-5D	SF5902-5D	MFR5902-5D	SFR5902-5D
MF5902-6D	SF5902-6D	MFR5902-6D	SFR5902-6D
MF5902-7D	SF5902-7D	MFR5902-7D	SFR5902-7D
MF5902-8D	SF5902-8D	MFR5902-8D	SFR5902-8D

## *Ring Locked Stud Removal Tools*



MSM( )-( ) Series Stud Removal Tool

MI Part No. Removal Tool	Rosan* Part No. Removal Tool	MI Part No. Removal Tool	Rosan* Part No. Removal Tool
		MSM141-26	SM141-26
MSM81-16	SM81-16	MSM151-28	SM151-28
MSM91-16	SM91-16	MSM161-30	SM161-30
MSM101-18	SM101-18	MSM181-34	SM181-34
MSM111-20	SM111-20		
MSM121-22	SM121-22		
MSM131-24	SM131-24		

## *Ring Locked Size-On-Size Stud Installation Tools*



MFC( )D( ) and MFC( )H( ) Series Lockring Drive Tool

MI Part No. LR Drive Tool	Rosan* Part No. LR Drive Tool	MI Part No. LR Drive Tool	Rosan* Part No. LR Drive Tool
MFC16D16	SFC16D16	MFC16H16	SFC16H16
MFC19D16	SFC19D16	MFC19H16	SFC19H16
MFC25D16	SFC25D16	MFC25H16	SFC25H16
	SFC31D16	MFC31H16	SFC31H16
MFC38D16	SFC38D16	MFC38H16	SFC38H16

## Thinwall Insert Installation Tools



MI Part No. Wrench for NO Lock Inserts	Rosan* Part No. Wrench for NO Lock Inserts	MI Part No. Wrench for Lock Inserts	Rosan* Part No. Wrench for Internal Lock Inserts	MI Part No. Swage Tool	Rosan* Part No. Swage Tool
MR11W4A	SR14W4A	MR11WA	SR11WA	MR11SA	SR11SA
MR14W4A	SR14W4A	MR14WA	SR14WA	MR14SA	SR14SA
MR16W4A	SR16W4A	MR16WA	SR16WA	MR16SA	SR16SA
MR19W4A	SR19W4A	MR19WA	SR19WA	MR19SA	SR19SA
MR25W4A	SR25W4A	MR25WA	SR25WA	MR25SA	SR25SA
MR31W4A	SR31W4A	MR31WA	SR31WA	MR31SA	SR31SA
MR37W4A	SR37W4A	MR37WA	SR37WA	MR37SA	SR37SA
MR43W4A	SR43W4A	MR43WA	SR43WA	MR43SA	SR43SA
MR50W4A	SR50W4A	MR50WA	SR50WA	MR50SA	SR50SA
MR56W4A	SR56W4A	MR56WA	SR56WA	MR56SA	SR56SA
MR62W4A	SR62W4A	MR62WA	SR62WA	MR62SA	SR62SA
MR75W4A	SR75W4A	MR75WA	SR75WA	MR75SA	SR75SA
MRW14W4A	SRW14W4A	MRW14WA	SRW14WA	MRW14SA	SRW14SA
MRW16W4A	SRW16W4A	MRW16WA	SRW16WA	MRW16SA	SRW16SA
MRW19W4A	SRW19W4A	MRW19WA	SRW19WA	MRW19SA	SRW19SA
MRW25W4A	SRW25W4A	MRW25WA	SRW25WA	MRW25SA	SRW25SA
MRW31W4A	SRW31W4A	MRW31WA	SRW31WA	MRW31SA	SRW31SA
MRW37W4A	SRW37W4A	MRW37WA	SRW37WA	MRW37SA	SRW37SA
MRW43W4A	SRW43W4A	MRW43WA	SRW43WA	MRW43SA	SRW43SA
MRW50W4A	SRW50W4A	MRW50WA	SRW50WA	MRW50SA	SRW50SA

## Thinwall Insert Gages & Kits Tools

MI Part No. Gage	Rosan* Part No. Gage	MI Part No. Kits	Rosan* Part No. Kits	MI Part No. Kits	Rosan* Part No. Kits
MRO8GSDA	SRO8GSD-A	MK4-110-110L	K4-110-110L	MK4SRW503-503L	K4SRW503-503L
MR11GSDA	SR11GSD-A	MK4-141-142L	K4-141-142L	MK4SRW162-162L	K4SRW162-162L
MR14GSDA	SR14GSD-A	MK4-162-162L	K4-162-162L	MK4SRW192-192L	K4SRW192-192L
MR16GSDA	SR16GSD-A	MK4-192-192L	K4-192-192L	MK4SRW194-194L	K4SRW194-194L
MR19GSDA	SR19GSD-A	MK4-194-194L	K4-194-194L	MK4SRW250-250L	K4SRW250-250L
MR25GSDA	SR25GSD-A	MK4-250-250L	K4-250-250L	MK4SRW258-258L	K4SRW258-258L
MR31GSDA	SR31GSD-A	MK4-258-258L	K4-258-258L	MK4SRW314-314L	K4SRW314-314L
MR37GSDA	SR37GSD-A	MK4-314-314L	K4-314-314L	MK4SRW318-318L	K4SRW318-318L
MR43GSDA	SR43GSD-A	MK4-318-318L	K4-318-318L	MK4SRW374-374L	K4SRW374-374L
MR50GSDA	SR50GSD-A	MK4-374-374L	K4-374-374L	MK4SRW376-376L	K4SRW376-376L
		MK4-376-376L	K4-376-376L	MK4SRW430-430L	K4SRW430-430L
		MK4-430-430L	K4-430-430L	MK4SRW500-500L	K4SRW500-500L
		MK4-500-500L	K4-500-500L		
		MK4-503-503L	K4-503-503L		
		MK4-628-628L	K4-628-628L		
		MK4-621-621L	K4-621-621L		

## *Thinwall Installation Tools*

MI Part No.	Microdot/Fairchild* Part No.
<b>Wrench and Swage Tool</b>	Wrench and Swage Tool
<b>MT8000H04</b>	KT8000H04
<b>MT8000S04</b>	KT8000S04
<b>MT8000H06</b>	KT8000H06
<b>MT8000S06</b>	KT8000S06
<b>MT8000H08</b>	KT8000H08
<b>MT8000S08</b>	KT8000S08
<b>MT8000H3</b>	KT8000H3
<b>MT8000S3</b>	KT8000S3
<b>MT8000H4</b>	KT8000H4
<b>MT8000S4</b>	KT8000S4



MT8000 Series  
Wrench and Swage Tool

## *Thinwall Insert Step Drills*

MI Part No.	Rosan* Part No.	MI Part No.	Rosan* Part No.
Step Drill	Step Drill	Step Drill	Step Drill
<b>MR14D</b>	SR14D	<b>MRW14D</b>	SRW14D
<b>MR16D</b>	SR16D	<b>MRW16D</b>	SRW16D
<b>MR19D</b>	SR19D	<b>MRW19D</b>	SRW19D
<b>MR25D</b>	SR25D	<b>MRW25D</b>	SRW25D
<b>MR31D</b>	SR31D	<b>MRW31D</b>	SRW31D
<b>MR37D</b>	SR37D	<b>MRW37D</b>	SRW37D
<b>MR43D</b>	SR43D	<b>MRW43D</b>	SRW43D
<b>MR50D</b>	SR50D	<b>MRW50D</b>	SRW50D
<b>MR62D</b>	SR62D	<b>MRW62D</b>	SRW62D



MR( )D and MRW( )D  
Thinwall Insert Step Drills



MEA( )D Series  
Drive Tool

## *Unique Installation Tooling*

MI Part No.	Rosan* Part No.	MI Part No.	Rosan* Part No.
Drive Tool	Drive Tool	Drive Tool	Drive Tool
<b>MEA032D</b>	REA032D	<b>MEA080D</b>	REA080D
<b>MEA024D</b>	REA024D	<b>MEA083D</b>	REA083D
<b>MEA048D</b>	REA048D	<b>MEA098D</b>	REA098D
<b>MEA040D</b>	REA040D	<b>MEA092D</b>	REA092D
<b>MEA054D</b>	REA054D	<b>MEA108D</b>	REA108D
<b>MEA058D</b>	REA058D	<b>MEA101D</b>	REA101D
<b>MEA064D</b>	REA064D	<b>MEA126D</b>	REA126D
<b>MEA066D</b>	REA066D	<b>MEA120D</b>	REA120D
<b>MEA070D</b>	REA070D	<b>MEA144D</b>	REA144D
<b>MEA074D</b>	REA074D	<b>MEA149D</b>	REA149D
		<b>MEA164D</b>	REA164D
		<b>MEA168D</b>	REA168D

## *Press Nut Tooling*

MI Part No.	Rosan* Part No.	MI Part No.	Rosan* Part No.	MI Part No.	Rosan* Part No.
Drive Tool	Drive Tool	Drive Tool	Drive Tool	Drive Tool	Drive Tool
MPN2DS	RPN2DS				
MPN4DS	RPN4DS				
MPN6DS	RPN6DS				
MPN8DS	RPN8DS				
MPN10DS	RPN10DS				
MPN250DS	RPN250DS				
MPN312DS	RPN312DS				
MPN375DS	RPN375DS				



MPN( ) D and MPN( ) DS Series Drive Tool

## *Press Nut Tooling*

MI Part No.	Rosan* Part No.	MI Part No.	Rosan* Part No.	MI Part No.	Rosan* Part No.
Drive Tool	Drive Tool	Drive Tool	Drive Tool	Drive Tool	Drive Tool
MPN2DS	RPN2DS				
MPN4DS	RPN4DS				
MPN6DS	RPN6DS				
MPN8DS	RPN8DS				
MPN10DS	RPN10DS				
MPN250DS	RPN250DS				
MPN312DS	RPN312DS				
MPN375DS	RPN375DS				



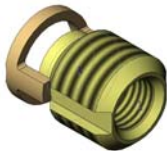
MMRP( )DS and MPN( ) DS Series Drive Tool

## Key Ring Stud and Insert Installation Tools



### KEY RING INSERT TOOLS

INTERNAL THREAD SIZE			STD. WALL	THIN WALL
			ONE PIECE	ONE PIECE
4	-0.112	-40	M245-04	M248-04
6	-0.138	-32	M245-06	M248-06
8	-0.164	-32	M245-2	M248-2
10	-0.19	-24	M245-3	M248-3
10	-0.19	-32	M246-3	M249-3
4-Jan	-0.25	-20	M245-4	M248-4
4-Jan	-0.25	-28	M246-4	M249-4
16-May	-0.3125	-18	M245-5	M248-5
16-May	-0.375	-24	M246-5	M249-5
8-Mar	-0.375	-16	M245-6	M248-6
8-Mar	-0.375	-24	M246-6	M249-6
16-Jul	-0.4375	-14	M245-7	-
16-Jul	-0.4375	-20	M246-7	-
2-Jan	-0.5	-13	M245-8	-
1/2	-0.5	-20	M246-8	-



### KEY RING STUD TOOLS

NUT END THREAD SIZE			SINGLE STEP	DOUBLE STEP
			ONE PIECE	ONE PIECE
10	-0.19	-24	M255-3	M265-3
10	-0.19	-32	M256-3	M266-3
4-Jan	-0.25	-20	M255-4	M265-4
4-Jan	-0.25	-28	M256-4	M266-4
16-May	-0.3125	-18	M255-5	M265-5
16-May	-0.375	-24	M256-5	M266-5
8-Mar	-0.375	-16	M255-6	M265-6
8-Mar	-0.375	-24	M256-6	M266-6





## Fluid Adapter Port Tooling

MI Part No.	Rosan* Part No.	MI Part No.	Rosan* Part No.
<b>Broach Tool</b>	Broach Tool	<b>Broach Tool- Impact</b>	Broach Tool- Impact
MFOPB5002HDB	RFOPB5002HDB	MFOPB5002	RFOPB5002
MFOPB5003HDB	RFOPB5003HDB	MFOPB5003	RFOPB5003
MFOPB5004HDB	RFOPB5004HDB	MFOPB5004	RFOPB5004
MFOPB5005HDB	RFOPB5005HDB	MFOPB5005	RFOPB5005
MFOPB5006HDB	RFOPB5006HDB	MFOPB5006	RFOPB5006
MFOPB5008HDB	RFOPB5008HDB	MFOPB5008	RFOPB5008
MFOPB5010HDB	RFOPB5010HDB	MFOPB5010	RFOPB5010
MFOPB5012HDB	RFOPB5012HDB	MFOPB5012	RFOPB5012
MFOPB5014HDB	RFOPB5014HDB	MFOPB5014	RFOPB5014
MFOPB5016HDB	RFOPB5016HDB	MFOPB5016	RFOPB5016
MFOPB5020HDB	RFOPB5020HDB	MFOPB5020	RFOPB5020
MFOPB5024HDB	RFOPB5024HDB	MFOPB5024	RFOPB5024
MFOPB5032HDB	RFOPB5032HDB	MFOPB5032	RFOPB5032



MFOPB5000HDB Series  
Non-Impact Broach Tool

MI Part No.	Rosan* Part No.	MI Part No.	Rosan* Part No.
<b>Chip Removal Tool</b>	Chip Removal Tool	<b>Porting Tool</b>	Porting Tool
MF02CRP	RF02CRP	MPT02	RPT02
MF03CRP	RF03CRP	MPT03	RPT03
MF04CRP	RF04CRP	MPT04	RPT04
MF05CRP	RF05CRP	MPT05	RPT05
MF06CRP	RF06CRP	MPT06	RPT06
MF08CRP	RF08CRP	MPT08	RPT08
MF10CRP	RF10CRP	MPT10	RPT10
MF12CRP	RF12CRP	MPT12	RPT12
MF14CRP	RF14CRP	MPT14	RPT14
MF16CRP	RF16CRP	MPT16	RPT16
MF20CRP	RF20CRP	MPT20	RPT20
MF24CRP	RF24CRP	MPT24	RPT24
MF32CRP	RF32CRP	MPT32	RPT32



MFOPB5000 Series – Impact  
Broach Tool



Additional cutters available for  
broach tools

MI Part No.	Rosan* Part No.
<b>Chip Removal Tool</b>	Chip Removal Tool
MF02CR	RF02CR
MF03CR	RF03CR
MF04CR	RF04CR
MF05CR	RF05CR
MF06CR	RF06CR
MF08CR	RF08CR
MF10CR	RF10CR
MF12CR	RF12CR
MF14CR	RF14CR
MF16CR	RF16CR
MF20CR	RF20CR
MF24CR	RF24CR
MF32CR	RF32CR



MF( ) CR Series  
PortChip Removal



MF( ) CRP Series  
PortChip Removal



MPT( ) Series  
Porting Tool

## Fluid Adapter Installation Tools

MI Part No.	Rosan* Part No.	MI Part No.	Rosan* Part No.
<b>Wrench</b>	<b>Wrench</b>	<b>Lockring Drive Tool</b>	<b>Lockring Drive Tool</b>
MF6902W	RF6902W	MF9502DA	RF9502DA
MF6903W	RF6903W	MF9503DA	RF9503DA
MF6904W	RF6904W	MF9504DA	RF9504DA
MF6905W	RF6905W	MF9505DA	RF9505DA
MF6906W	RF6906W	MF9506DA	RF9506DA
MF6908W	RF6908W	MF9508DA	RF9508DA
MF6910W	RF6910W	MF9510DA	RF9510DA
MF6912W	RF6912W	MF9512DA	RF9512DA
MF6914W	RF6914W	MF9516DA	RF9516DA
MF6916W	RF6916W	MF9520DA	RF9520DA
MF6920W	RF6920W		
MF6924W	RF6924W		
MF6932W	RF6932W		



MF6900W Series Adapter Wrench

MI Part No.	Rosan* Part No.	MI Part No.	Rosan* Part No.
<b>Combination Wrench and Drive Tool</b>	<b>Combination Wrench and Drive Tool</b>	<b>Combination Wrench and Drive Tool</b>	<b>Combination Wrench and Drive Tool</b>
MF5002DW	RF5002DW	MF9802DW	RF9802DW
MF5003DW	RF5003DW	MF9803DW	RF9803DW
MF5004DW	RF5004DW	MF9804DW	RF9804DW
MF5005DW	RF5005DW	MF9805DW	RF9805DW
MF5006DW	RF5006DW	MF9806DW	RF9806DW
MF5008DW	RF5008DW	MF9808DW	RF9808DW
MF5010DW	RF5010DW	MF9810DW	RF9810DW
MF5012DW	RF5012DW	MF9812DW	RF9812DW
MF5014DW	RF5014DW	MF9814DW	RF9814DW
MF5016DW	RF5016DW	MF9816DW	RF9816DW
MF5020DW	RF5020DW	MF9820DW	RF9820DW
MF5024DW	RF5024DW	MF9824DW	RF9824DW
MF5032DW	RF5032DW	MF9832DW	RF9832DW



MF9500DA Series Adapter Drive Tool



MF5000DW and MF9800DW Series Adapter combination Wrench & Drive Tool

MI Part No.	Rosan* Part No.	MI Part No.	Rosan* Part No.
<b>Lockring Drive Tool</b>	<b>Lockring Drive Tool</b>	<b>Lockring Drive Tool</b>	<b>Lockring Drive Tool</b>
MF8502DA	RF8502DA	MF9802DEK	RF9802DEK
MF8503DA	RF8503DA	MF9803DEK	RF9803DEK
MF8504DA	RF8504DA	MF9804DEK	RF9804DEK
MF8505DA	RF8505DA	MF9805DEK	RF9805DEK
MF8506DA	RF8506DA	MF9806DEK	RF9806DEK
MF8508DA	RF8508DA	MF9808DEK	RF9808DEK
MF8510DA	RF8510DA	MF9810DEK	RF9810DEK
MF8512DA	RF8512DA	MF9812DEK	RF9812DEK
MF8516DA	RF8516DA	MF9814DEK	RF9814DEK
MF8520DA	RF8520DA	MF9816DEK	RF9816DEK
		MF9820DEK	RF9820DEK
		MF9824DEK	RF9824DEK
		MF9832DEK	RF9832DEK



MF9800DEK Lockring Drive Tool



MF8500WA Series Lockring Drive Tool

## Fluid Adapter Installation Tooling

MI Part No.	Rosan* Part No.	MI Part No.	Rosan* Part No.
<b>Wrench</b>	<b>Wrench</b>	<b>Wrench</b>	<b>Wrench</b>
MF8502WA	RF8502WA	MF9502WA	RF9502WA
MF8503WA	RF8503WA	MF9503WA	RF9503WA
MF8504WA	RF8504WA	MF9504WA	RF9504WA
MF8506WA	RF8506WA	MF9506WA	RF9506WA
MF8508WA	RF8508WA	MF9508WA	RF9508WA
MF8510WA	RF8510WA	MF9510WA	RF9510WA
MF8512WA	RF8512WA	MF9512WA	RF9512WA
MF8516WA	RF8516WA	MF9516WA	RF9516WA
MF8520WA	RF8520WA	MF9520WA	RF9520WA



MF8500DA or  
MF9500DA  
Series Lockring  
Drive Tool

MI Part No.	Rosan* Part No.	MI Part No.	Rosan* Part No.
<b>Lockring Removal Tool</b>	<b>Lockring Removal Tool</b>	<b>Lockring Removal Tool</b>	<b>Lockring Removal Tool</b>
MF02LPDE	RF02LPDE	MF9502LPD	RF9502LPD
MF03LPDE	RF03LPDE	MF9503LPD	RF9503LPD
MF04LPDE	RF04LPDE	MF9504LPD	RF9504LPD
MF05LPDE	RF05LPDE	MF9505LPD	RF9505LPD
MF06LPDE	RF06LPDE	MF9506LPD	RF9506LPD
MF08LPDE	RF08LPDE	MF9508LPD	RF9508LPD
MF10LPDE	RF10LPDE	MF9510LPD	RF9510LPD
MF12LPDE	RF12LPDE	MF9512LPD	RF9512LPD
MF14LPDE	RF14LPDE	MF9514LPD	RF9514LPD
MF16LPDE	RF16LPDE	MF9516LPD	RF9516LPD
MF20LPDE	RF20LPDE	MF9520LPD	RF9520LPD
MF24LPDE	RF24LPDE	MF9524LPD	RF9524LPD
MF32LPDE	RF32LPDE	MF9532LPD	RF9532LPD



MF( )LPDE Series  
Lockring Removal  
Tool







MF95( )LPD Series  
Lockring Removal  
Tool

MI Part No.	Rosan* Part No.
<b>O-Ring Installation Tooling</b>	<b>O-Ring Installation Tooling</b>
MORT216	ORT216
MORT250	ORT250
MORT312	ORT312
MORT375	ORT375
MORT437	ORT437
MORT562	ORT562
MORT687	ORT687
MORT812	ORT812
MORT937	ORT937
MORT1125	ORT1125
MORT1312	ORT1312
MORT1625	ORT1625
MORT2125	ORT2125



MORT( ) Series O-  
Ring Installation Tool

## Fluid Adapter Tool Kits: MKM( ) SERIES

PORT SIZE	KIT PART NUMBER	NSN (NATIONAL STOCK NUMBER REF)	KIT CONTENTS			
			 O-RING INSTALL TOOL	 WRENCH PART NUMBER	 LOCKRING DRIVE TOOL	 LOCKRING REMOVAL TOOL
2	MKM35	5160-01-075-5690	MORT216	MF6902W	MF9802DEK	MF02LPDE
3	MKM36	5180-01-077-1577	MORT250	MF6903W	MF9803DEK	MF03LPDE
4	MKM18	5180-00-283-6999	MORT312	MF6904W	MF9804DEK	MF04LPDE
5	MKM29	5180-01-075-0765	MORT375	MF6905W	MF9805DEK	MF05LPDE
6	MKM30	5180-01-075-0766	MORT437	MF6906W	MF9806DEK	MF06LPDE
8	MKM13	5180-00-283-6993	MORT562	MF6908W	MF9808DEK	MF08LPDE
10	MKM19	5180-00-283-6989	MORT687	MF6910W	MF9810DEK	MF10LPDE
12	MKM31	5180-01-077-1578	MORT812	MF6912W	MF9812DEK	MF12LPDE
14	MKM32	5180-01-075-0767	MORT937	MF6914W	MF9814DEK	MF14LPDE
16	MKM14	5180-00-283-6992	MORT1125	MF6916W	MF9816DEK	MF16LPDE
20	MKM15	5180-00-283-6991	MORT1312	MF6920W	MF9820DEK	MF20LPDE
24	MKM28	5180-01-075-0768	MORT1625	MF6924W	MF9824DEK	MF24LPDE
32	MKM33	5180-01-075-5689	MORT2125	MF6932W	MF9832DEK	MF32LPDE
34	MKM34	5180-01-263-9173	SPECIAL TOOL KIT CONTAINING ALL THE ABOVE TOOLS IN ONE CONTAINER			

## Fluid Adapter Tool Kits: MKM9RF( ) SERIES

ADAPTER AS1986-( ) SIZE REF	KIT PART NUMBER	(NATIONAL STOCK NUMBER REF)	KIT CONTENTS		
			 O-RING INSTALL TOOL	 COMBO WRENCH AND DRIVE TOOL	 LOCKRING REMOVAL TOOL
4	MKM9RF5004	5180-00-785-5062	MORT312	MF5004DW	MF5004LPD
5	MKM9RF5005	-	MORT375	MF5005DW	MF5005LPD
6	MKM9RF5006	5180-00-785-5063	MORT437	MF5006DW	MF5006LPD
8	MKM9RF5008	5180-00-785-5068	MORT562	MF5008DW	MF5008LPD
10	MKM9RF5010	5180-00-785-5069	MORT687	MF5010DW	MF5010LPD
12	MKM9RF5012	5180-00-785-5073	MORT812	MF5012DW	MF5012LPD
14	MKM9RF5014	-	MORT937	MF5014DW	MF5014LPD
16	MKM9RF5016	5180-00-785-5080	MORT1125	MF5016DW	MF5016LPD
20	MKM9RF5020	5180-00-782-7033	MORT1312	MF5020TDW	MF5020LPD
24	MKM9RF5024	-	MORT1625	MF5024TDW	MF5024LPD