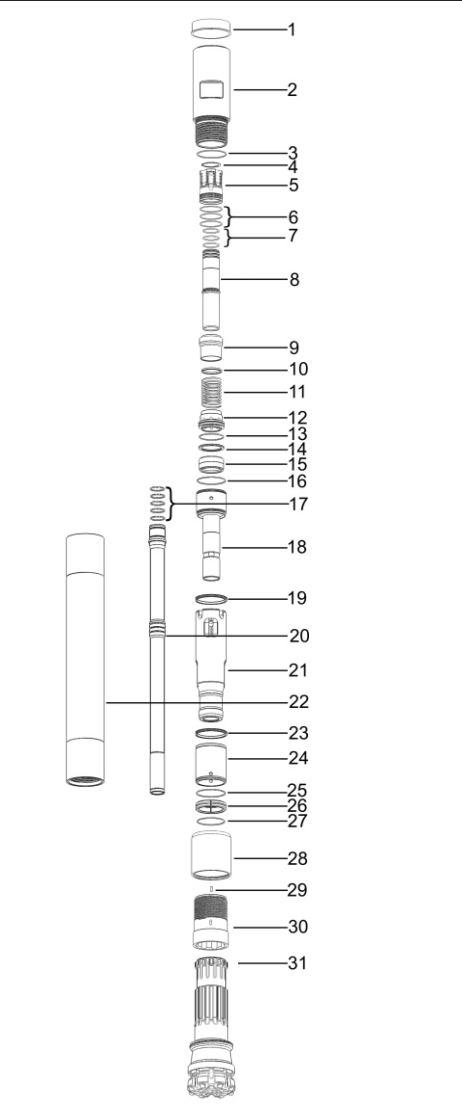
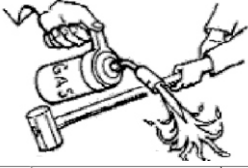


RC5 DISMANTLING

DO NOT apply heat or direct impact to the outside of the hammer as this usually damages the equipment.



A, When dismantling hammers it is essential that cylinders are clamped in the correct position, away from threads, which can be damaged.

X & Y = DO NOT CLAMP HERE

X = 274mm (10.787")

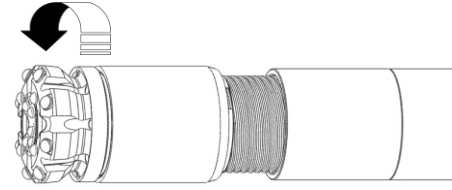
Y = 365mm (14.370")



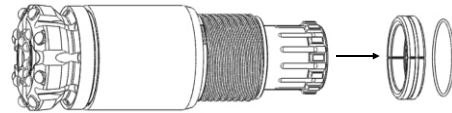
B, Break the top joint between the Cylinder (22) and the Top Adaptor (2) and bottom joint between Cylinder (22) and Chuck (30). **Do not** grip on Bit Catcher (28).



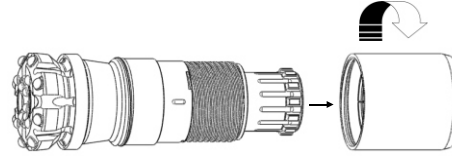
C, Unscrew and remove Drill Bit (31), Chuck (30), Bit Catcher (28) and Bit Retaining Rings (26).



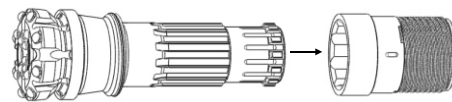
D, Remove Bit Retaining Rings (26) from Drill Bit (31). Remove 'O' Ring (27) from Bit Retaining Rings (26).



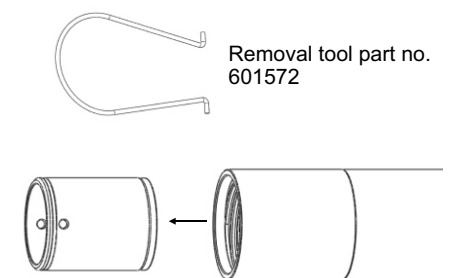
E, Lift Bit Catcher (28) over Bit Catcher Key (29) and unscrew past bit catcher thread on the backhead on Drill Bit (31).



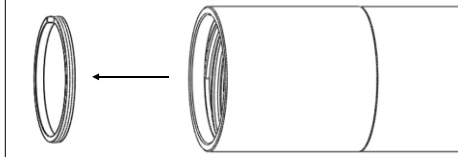
F, Remove Chuck (30) from Drill Bit (31).



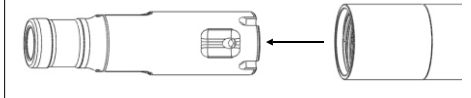
G, Remove Piston Guide Bush (24) from bottom of Cylinder (22) using the tool illustrated below.



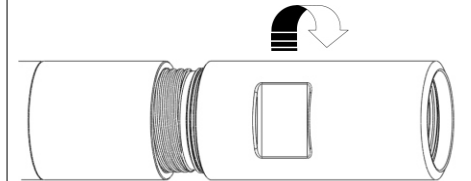
H, Remove Retaining Ring (23) from bottom of Cylinder (22).



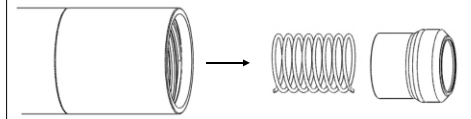
I, Remove Piston (21) from bottom of Cylinder (22).



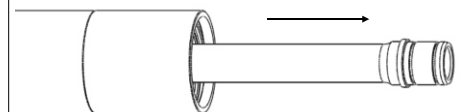
J, Unscrew and remove Top Adaptor (2) from Cylinder (22).



K, Remove Non Return Valve (9) and NRV Spring (11) from top of Cylinder (22).



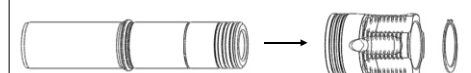
L, Remove Sample Tube (20) from Cylinder (22).



M, Knock out and remove Upper Sample Tube (8) and NRV Seat & Filter (5) from Top adaptor (2)

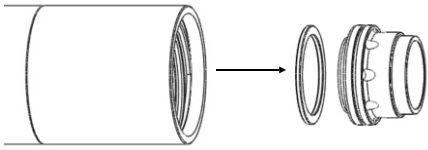


N, Remove Circlip (4) and NRV Sear & Filter (5) from Upper Sample Tube (8).

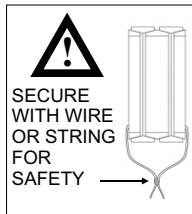
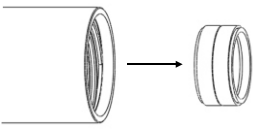


RC5 DISMANTLING Cont'd

O, Remove Distributor Cap (12) and Shim (14) from top of Cylinder (22).

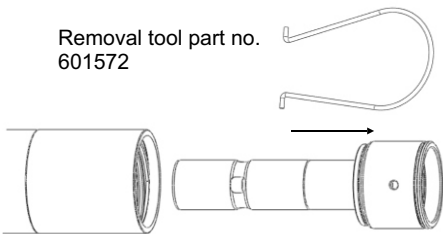


P, Remove Ringfeder Spring (15) from Cylinder (22). Ensure that eye protection is worn when removing Compression Spring. Remove with great care as the components may spring apart without warning if dropped. If removed intact secure with wire or string before separating.

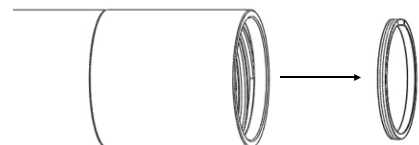


Q, Remove Air Distributor (18) from top of Cylinder (22) using the tools illustrated below.

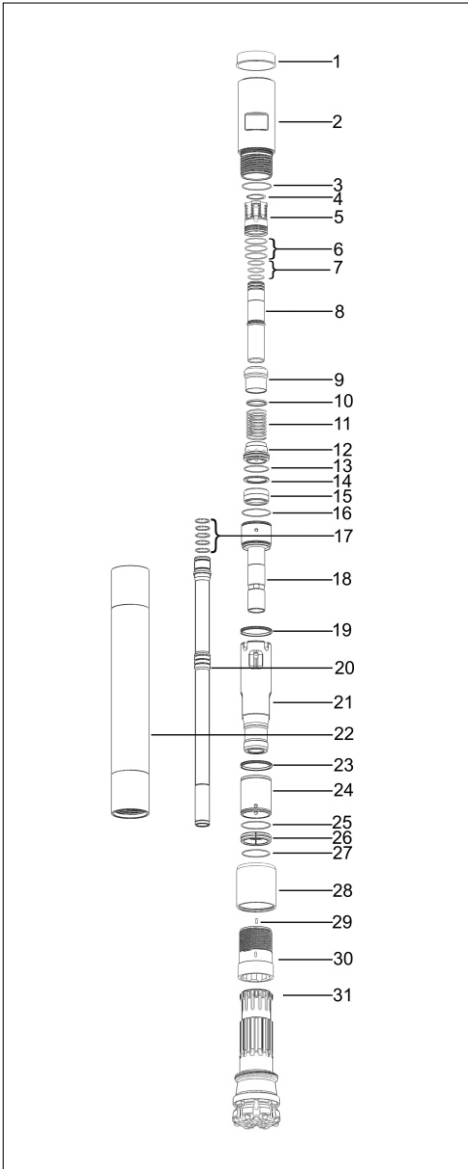
Removal tool part no.
601572



R, Remove Retaining Ring (19) from top of Cylinder (22).



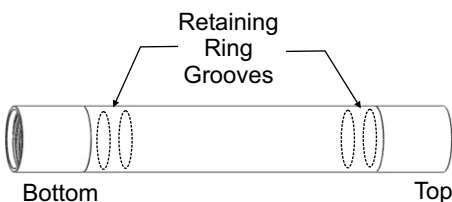
RC5 ASSEMBLY



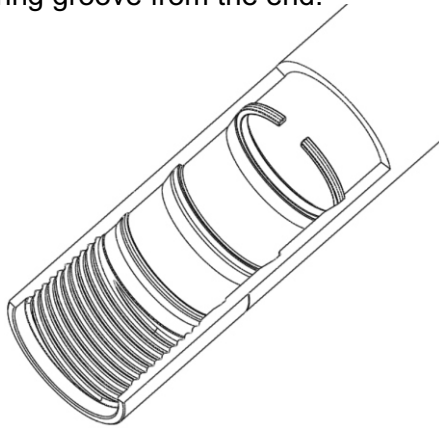
A, Before assembly ensure that all components are cleaned, greased and lubricated. Lay out components in the order of the illustration above for ease of identification.



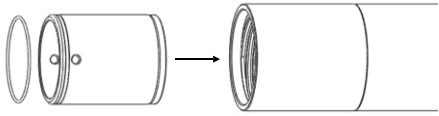
B, Secure Cylinder (22) on a bench or suitable stripping equipment. The cylinder has two identically positioned retaining ring grooves at either end and is reversible.



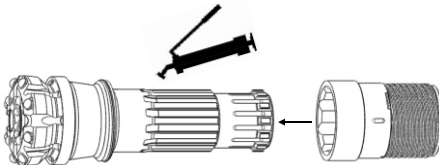
C, Insert Retaining Ring (23) into the chuck end of Cylinder (22). Ensure it seats in the 2nd retaining ring groove from the end.



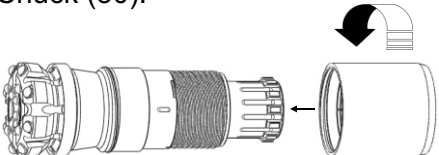
D, Fit 'O' Ring (25) onto Piston Guide Bush (24) ensure it seat in the 'O' ring groove. Insert Piston Guide Bush (24) into the chuck end of Cylinder (22) ensure retrieval holes are towards the threads as illustrated below and that it seats up against Retaining Ring (25).



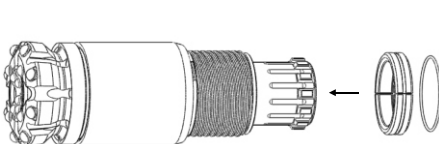
E, Grease splines and fit Chuck (30) onto Drill Bit (31).



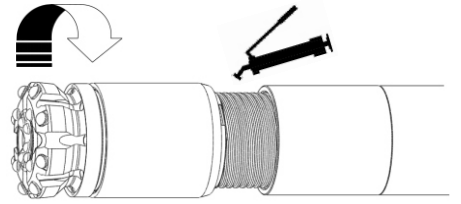
F, Fit Bit Catcher (28) over Chuck (30) and screw past the bit catcher thread on Drill Bit (31). Align keyway in Bit Catcher (28) with Bit Catcher Key (29) and seat Bit Catcher (28) against shoulder of Chuck (30).



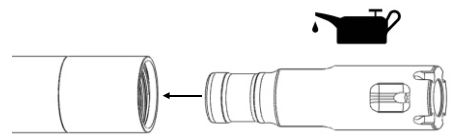
G, Fit 'O' Ring (27) onto Bit Retaining Rings (26). Fit Bit Retaining Rings (26) onto Drill Bit (31).



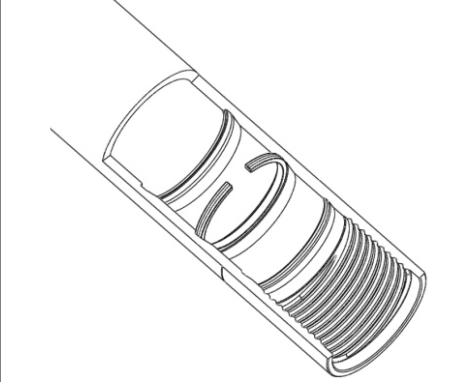
H, Grease threads and screw Drill Bit (31), Chuck (30), Bit Catcher (28) and Bit Retaining Rings (26) into bottom of Cylinder (22).



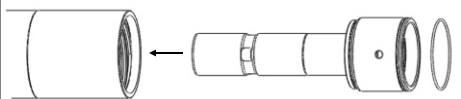
I, Coat Piston (21) liberally with rock oil - minimum 200 centistroke and insert into top of Cylinder (22). Ensure it is facing the right way as illustrated.



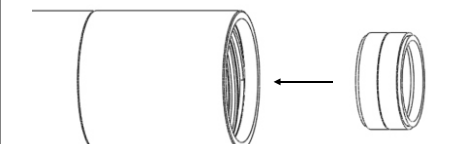
J, Insert Retaining Ring (19) into the adaptor end of Cylinder (22). Ensure it seats in the 1st retaining ring groove from the end.



K, Fit 'O' Ring (16) onto Air Distributor (18) ensure it seats in the 'O' ring groove. Insert Air Distributor (18) into top of Cylinder (22) ensure it seats up against Retaining Ring (19).

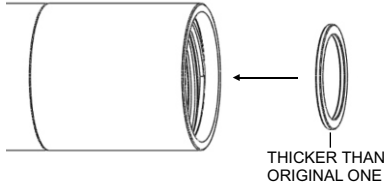


L, Insert Ringfeder Spring (15) into top of Cylinder (22) so that it seats in Air Distributor (18). Ensure the Ringfeder Spring components are in the same sequence as originally fitted.



RC5 ASSEMBLY Cont'd

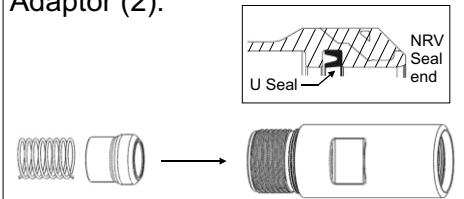
M, Insert a Shim (14) thicker than the one taken from the hammer into top of Cylinder (22) ensure it seats up against Ringfeder Spring (15).



R, Insert Upper Sample Tube (8) and NRV Seat & Filter (5) into Top Adaptor (2) ensure the NRV Seat & Filter (5) seats up against the internal step in the top adaptor.

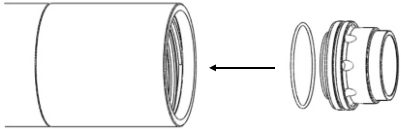


W, Ensure U Seal (10) is fitted to Non Return Valve (9) as illustrated below. Insert Non Return Valve (9) and NRV Spring (11) into Top Adaptor (2).

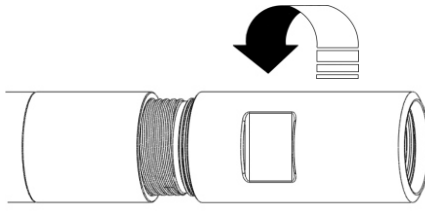


SETTING CORRECT TOLERANCES

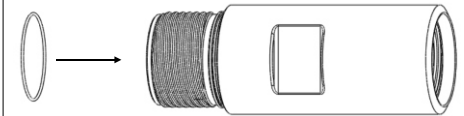
N, Fit 'O' Ring (13) onto Distributor Cap (12) ensure it seats in the 'O' ring groove. Insert Distributor Cap into top of Cylinder (22) ensure it fits inside Air Distributor (18) and seats onto Shim (14).



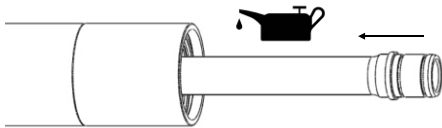
S, Screw Top Adaptor (2) into Cylinder (22) and hand tighten.



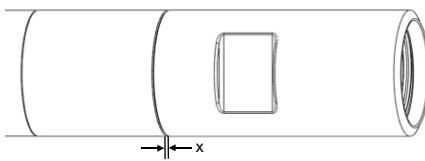
X, Fit 'O' Ring (3) onto Top Adaptor (2) ensure it seats in the 'O' ring groove.



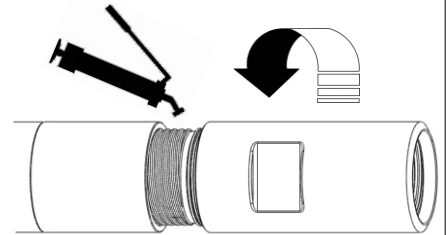
O, Ensure the 5 'O' Rings (17) are fitted to Sample Tube (20). Apply a light coat of oil to Sample Tube (20) and insert into top of Cylinder (22) ensure it seat up against the internal shoulder of Distributor Cap (12).



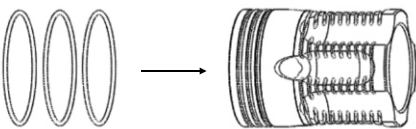
T, Measure make up gap 'x' between Cylinder (22) and Top Adaptor (2). Correct gap should be 2.75 - 3.25mm (0.108" - 0.128").



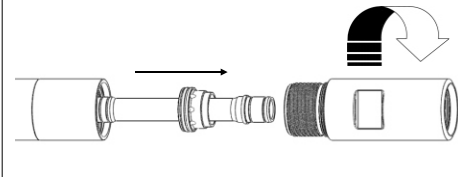
Y, Grease threads and screw Top Adaptor (2) into Cylinder (22) until fully tightened.



P, Fit 'O' Rings (6) onto NRV Seat & Filter (5) ensure they seat in the 'O' ring grooves.

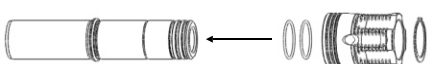


U, Unscrew Top Adaptor and remove Sample Tube (20) and Distributor Cap (12) from Cylinder (22).



FINAL ASSEMBLY

Q, Fit NRV Seat & Filter (5) onto Upper Sample Tube (8) ensure it seats up against the shoulder. Fit Circlip (4) onto Upper Sample Tube (8) ensure it seats in the circlip groove. Fit 'O' Rings (7) onto Upper Sample Tube (8) ensure they seat in the 'O' ring grooves.



V, Replace Shimming (14) in order that make up gap 'x' falls between minimum and maximum figures. Re-assemble Distributor Cap (12) and Sample Tube (20).

SHIMS AVAILABLE
4.5mm
5.0mm
5.5mm

