



Safari Turbocharger System STHZJ70W

## **Parts List**

ITEM	PART NO	DESCRIPTION	QTY			
EXHAUS	EXHAUST SUB ASSEMBLY -STHZJ70W S1					
1	000-104	STUD - M10 x 1.25 x 23.5mm (34mm O/L) - S/S	3			
2	000-209	NUT - SELFLOC - 10mm x 1.25	3			
3	000-303	WASHER - FLAT - 10mm	5			
4	333-003-700	PIPE - TURBINE OUTLET - 1HZ/WB	1			
5	330-411-000	GASKET - 2 BOLT FLANGE	1			
6	000-054	BOLT - HEX - 10mm x 1.25 x 35mm	2			

7	000-256	NUT - FLANGED - 10mm x 1.25mm	2
8	000-101	STUD - 8mm x 1.25/ 1.0 x 23.5mm (35mm O/L) - S/S	5
9	000-208	NUT - SELFLOC - 8mm x 1.0	5
10	000-302	WASHER - FLAT - 8mm	5
11	000-972	PLUG - HEX - 18mm x 1.5mm	1
12	000-316	WASHER - COPPER - 18/24mm	1
COMP.	INLET SUB ASSEMBLY -	STHZJ70W S2	
15	330-222-200	HOSE - AIR CLEANER/TURBO (SILICONE)	1
16	375-028-000	TOP - AIR CLEANER	1
17	000-939-100	CAP - RUBBER VACUUM - 5.0mm	2
18	000-928	CLAMP - HOSE - 12mm x 70/90mm	2
19	330-994-000	HOSE - BREATHER - MOULDED - 5/8"	1
20	000-911-023	CLAMP - SPRING - NO. 23	2
21	000-809-035	HOSE - VACUUM - 3/8" ID x 350mm LONG	1
22	000-920	CLAMP - HOSE - 9mm x 10/16 - S/S	2
INLET N	MANIFOLD SUB ASSEMB	LY - STHZJ70W S3	
31	375-221-000	HOSE - COMPRESSOR DISCHARGE - SILICONE	1
32	000-926	CLAMP - HOSE - 12mm x 50/70mm	1
33	000-927	CLAMP - HOSE - 12mm x 60/80mm	1
34	330-972-200	PLUG - 18mm x 1.5 x 1/8" NPTF	1
35	000-316	WASHER - COPPER - 18/24mm	1
36	000-585	ADAPTOR - 90° - 1/4" BARB x 1/8" NPT	1
TURBO	CHARGER SUB ASSEMB	LY - STHZJ70W S4	
41	330-061-063	TURBINE HOUSING - 1HZ/TD06	1
42	330-471-000	RING - SEALING - EXHAUST	1
43	000-956	PLUG - 1/8" NPT - EGT PORT	1

45 000-062-600 COMPRESSOR HOUSING - TD06 - 18G 1 46 000-454-C CLAMP - TURBINE HOUSING RETAINING 1 47 000-453-C CIRCLIP - COMP, HOUSING RETAINING 1 48 000-068-900 BRACKET - ACTUATOR 1 49 000-011 BOLT - HEX - 8mm x 1.25 x 16mm - S/S 2 50 000-305 WASHER - STAR - 8mm 2 51 000-302 WASHER - FLAT - 8mm 2 52 000-970-765 SPACER - ACTUATOR MOUNTING 2 53 000-301 WASHER - FLAT - 6mm 2 54 000-204 NUT - NYLOC - 6mm x 1.0 2 55 000-066-765 ACTUATOR/ROD ASSEMBLY 1 56 000-963 CLIP - 'C' - 4.5mm 1 57 000-808-070 HOSE - 1/4" ID x 550mm 1 58 000-917 CLAMP - HOSE - SPRING 1/4" 2 59 330-011-999 BRACKET - TURBO SUPPORT 1 60 000-1056-000 BOLT - 12mm x 1.25 x 25mm 2 61 000-308 WASHER - FLAT - 12mm 2 62 000-331 WASHER - FLAT - 12mm 2 63 000-106 STUD - 10mm x 1.5/1.25 x 27mm (42mm O/L) - S/S 1 64 000-303 WASHER - FLAT - 110mm 1 65 000-209 NUT - SELFLOC - 10mm x 1.25 1  **UBRICATION SUB ASSEMBLY - STHZJ7OW S 71 000-961 ADAPTOR - OIL SUPPLY - 1/4" ID x 1060mm 1 73 330-034-000 BRACKET - OIL SUPPLY - 1/4" ID x 1060mm 1 73 330-034-000 BRACKET - OIL SUPPLY - 1/4" ID x 1060mm 1 1	44	000-063-765	CHRA - TD06 - 18G	1	
46 000-454-C CLAMP - TURBINE HOUSING RETAINING 1 47 000-453-C CIRCLIP - COMP. HOUSING RETAINING 1 48 000-068-900 BRACKET - ACTUATOR 1 49 000-011 BOLT - HEX - 8mm x 1.25 x 16mm - 5/5 2 50 000-305 WASHER - STAR - 8mm 2 51 000-302 WASHER - FLAT - 8mm 2 52 000-970-765 SPACER - ACTUATOR MOUNTING 2 53 000-301 WASHER - FLAT - 6mm 2 54 000-204 NUT - NYLOC - 6mm x 1.0 2 55 000-066-765 ACTUATOR/ROD ASSEMBLY 1 56 000-963 CLIP - 'C' - 4.5mm 1 57 000-808-070 HOSE - 1/4" ID x 550mm 1 58 000-917 CLAMP - HOSE - SPRING 1/4" 2 59 330-011-999 BRACKET - TURBO SUPPORT 1 60 000-1056-000 BOLT - 12mm x 1.25 x 25mm 2 61 000-308 WASHER - SPRING - 12mm 2 62 000-331 WASHER - FLAT - 12mm 2 63 000-106 STUD - 10mm x 1.5/1.25 x 27mm (42mm O/L) - 5/5 1 64 000-303 WASHER - FLAT - 10mm 1 65 000-209 NUT - SELFLOC - 10mm x 1.25 1  LUBRICATION SUB ASSEMBLY - STH2I7OW S 71 000-961 ADAPTOR - OIL SUPPLY - 1/4" ID x 1060mm 1  LUBRICATION SUB ASSEMBLY - STH2I7OW S 71 000-961 ADAPTOR - OIL SUPPLY - 1/4" ID x 1060mm 1	45	000-062-600	COMPRESSOR HOUSING - TD06 - 18G	1	
47 000-453-C CIRCLIP - COMP. HOUSING RETAINING 1 48 000-068-900 BRACKET - ACTUATOR 1 49 000-011 BDLT - HEX - 8mm x 1.25 x 16mm - S/S 2 50 000-305 WASHER - STAR - 8mm 2 51 000-302 WASHER - FLAT - 8mm 2 52 000-970-765 SPACER - ACTUATOR MOUNTING 2 53 000-301 WASHER - FLAT - 6mm 2 54 000-204 NUT - NYLOC - 6mm x 1.0 2 55 000-066-765 ACTUATOR/ROD ASSEMBLY 1 56 000-963 CLIP - 'C' - 4.5mm 1 57 000-808-070 HOSE - 1/4" ID x 550mm 1 58 000-917 CLAMP - HOSE - SPRING 1/4" 2 59 330-011-999 BRACKET - TURBO SUPPORT 1 60 000-1056-000 BDLT - 12mm x 1.25 x 25mm 2 61 000-308 WASHER - SPRING - 12mm 2 62 000-331 WASHER - FLAT - 12mm 2 63 000-106 STUD - 10mm x 1.5/1.25 x 27mm (42mm O/L) - S/S 1 64 000-303 WASHER - FLAT - 10mm 1 65 000-209 NUT - SELFLOC - 10mm x 1.25 1  LUBRICATION SUB ASSEMBLY - SITE/JOW S 71 000-961 ADAPTOR - OIL SUPPLY - 1/4" ID x 1060mm 1 1 10 100-106 STOD - 10 SUPPLY - 1/4" ID x 1060mm 1 1					
48 000-068-900 BRACKET - ACTUATOR 1 49 000-011 BOLT - HEX - 8mm x 1.25 x 16mm - S/S 2 50 000-305 WASHER - STAR - 8mm 2 2 51 000-302 WASHER - FLAT - 8mm 2 52 000-970-765 SPACER - ACTUATOR MOUNTING 2 53 000-301 WASHER - FLAT - 6mm 2 54 000-204 NUT - NYLOC - 6mm x 1.0 2 55 000-066-765 ACTUATOR/ROD ASSEMBLY 1 56 000-963 CLIP - 'C' - 4.5mm 1 57 000-808-070 HOSE - 1/4" ID x 550mm 1 58 000-917 CLAMP - HOSE - SPRING 1/4" 2 59 330-011-999 BRACKET - TURBO SUPPORT 1 60 000-1056-000 BOLT - 12mm x 1.25 x 25mm 2 61 000-308 WASHER - SPRING - 12mm 2 62 000-331 WASHER - FLAT - 12mm 2 63 000-106 STUD - 10mm x 1.5/1.25 x 27mm (42mm O/L) - S/S 1 64 000-303 WASHER - FLAT - 10mm 1 65 000-209 NUT - SELFLOC - 10mm x 1.25 1  LUBRICATION SUB ASSEMBLY - STHZIJOW SS 71 000-961 ADAPTOR - OIL SUPPLY - 1/4" ID x 1060mm 1	46	000-454-C	CLAMP - TURBINE HOUSING RETAINING	1	
49 000-011 BOLT - HEX - 8mm x 1.25 x 16mm - 5/S 2  50 000-305 WASHER - STAR - 8mm 2  51 000-302 WASHER - FLAT - 8mm 2  52 000-970-765 SPACER - ACTUATOR MOUNTING 2  53 000-301 WASHER - FLAT - 6mm 2  54 000-204 NUT - NYLOC - 6mm x 1.0 2  55 000-066-765 ACTUATOR/ROD ASSEMBLY 1  56 000-963 CLIP - 'C' - 4.5mm 1  57 000-808-070 HOSE - 1/4" ID x 550mm 1  58 000-917 CLAMP - HOSE - SPRING 1/4" 2  59 330-011-999 BRACKET - TURBO SUPPORT 1  60 000-1056-000 BOLT - 12mm x 1.25 x 25mm 2  61 000-308 WASHER - SPRING - 12mm 2  62 000-331 WASHER - FLAT - 12mm 2  63 000-106 STUD - 10mm x 1.5/1.25 x 27mm (42mm O/L) - 5/S 1  64 000-303 WASHER - FLAT - 10mm 1  65 000-209 NUT - SELFLOC - 10mm x 1.25 1  CUBRICATION SUB ASSEMBLY - STLZJ7OW SS  71 000-961 ADAPTOR - OIL SUPPLY - 1/4" ID x 1060mm 1	47	000-453-C	CIRCLIP - COMP. HOUSING RETAINING	1	
50 000-305 WASHER - STAR - 8mm 2 51 000-302 WASHER - FLAT - 8mm 2 52 000-970-765 SPACER - ACTUATOR MOUNTING 2 53 000-301 WASHER - FLAT - 6mm 2 54 000-204 NUT - NYLOC - 6mm x 1.0 2 55 000-066-765 ACTUATOR/ROD ASSEMBLY 1 56 000-963 CLIP - 'C' - 4.5mm 1 57 000-808-070 HOSE - 1/A" ID x 550mm 1 58 000-917 CLAMP - HOSE - SPRING 1/4" 2 59 330-011-999 BRACKET - TURBO SUPPORT 1 60 000-1056-000 BOLT - 12mm x 1.25 x 25mm 2 61 000-308 WASHER - SPRING - 12mm 2 62 000-331 WASHER - FLAT - 12mm 2 63 000-106 STUD - 10mm x 1.5/1.25 x 27mm (42mm O/L) - S/S 1 64 000-303 WASHER - FLAT - 10mm 1 65 000-209 NUT - SELFLOC - 10mm x 1.25 1 64 1 000-961 ADAPTOR - OIL SUPPLY - 1/4" ID x 1060mm 1 65 375-962-000 HOSE ASSEMBLY - OIL SUPPLY - 1/4" ID x 1060mm 1	48	000-068-900	BRACKET - ACTUATOR	1	
51       000-302       WASHER - FLAT - 8mm       2         52       000-970-765       SPACER - ACTUATOR MOUNTING       2         53       000-301       WASHER - FLAT - 6mm       2         54       000-204       NUT - NYLOC - 6mm x 1.0       2         55       000-066-765       ACTUATOR/ROD ASSEMBLY       1         56       000-963       CLIP - 'C' - 4.5mm       1         57       000-808-070       HOSE - 1/4" ID x 550mm       1         58       000-917       CLAMP - HOSE - SPRING 1/4"       2         59       330-011-999       BRACKET - TURBO SUPPORT       1         60       000-1056-000       BOLT - 12mm x 1.25 x 25mm       2         61       000-308       WASHER - SPRING - 12mm       2         62       000-331       WASHER - FLAT - 12mm       2         63       000-106       STUD - 10mm x 1.5/1.25 x 27mm (42mm O/L) - S/S       1         64       000-303       WASHER - FLAT - 10mm       1         65       000-209       NUT - SELFLOC - 10mm x 1.25       1         LUBRICATION SUB ASSEMBLY - STHZJ7OW SS         71       000-961       ADAPTOR - OIL SUPPLY - 1/4" ID x 1060mm       1         1 </td <td>49</td> <td>000-011</td> <td>BOLT - HEX - 8mm x 1.25 x 16mm - S/S</td> <td>2</td>	49	000-011	BOLT - HEX - 8mm x 1.25 x 16mm - S/S	2	
52       000-970-765       SPACER - ACTUATOR MOUNTING       2         53       000-301       WASHER - FLAT - 6mm       2         54       000-204       NUT - NYLOC - 6mm x 1.0       2         55       000-066-765       ACTUATOR/ROD ASSEMBLY       1         56       000-963       CLIP - 'C' - 4.5mm       1         57       000-808-070       HOSE - 1/4" ID x 550mm       1         58       000-917       CLAMP - HOSE - SPRING 1/4"       2         59       330-011-999       BRACKET - TURBO SUPPORT       1         60       000-1056-000       BOLT - 12mm x 1.25 x 25mm       2         61       000-308       WASHER - SPRING - 12mm       2         62       000-331       WASHER - FLAT - 12mm       2         63       000-106       STUD - 10mm x 1.5/1.25 x 27mm (42mm O/L) - 5/5       1         64       000-303       WASHER - FLAT - 10mm       1         65       000-209       NUT - SELFLOC - 10mm x 1.25       1         LUBRICATION SUB ASSEMBLY - STHZJ7OW S5         71       000-961       ADAPTOR - OIL SUPPLY - 1/4" ID x 1060mm       1	50	000-305	WASHER - STAR - 8mm	2	
53       000-301       WASHER - FLAT - 6mm       2         54       000-204       NUT - NYLOC - 6mm x 1.0       2         55       000-066-765       ACTUATOR/ROD ASSEMBLY       1         56       000-963       CLIP - 'C' - 4.5mm       1         57       000-808-070       HOSE - 1/4" ID x 550mm       1         58       000-917       CLAMP - HOSE - SPRING 1/4"       2         59       330-011-999       BRACKET - TURBO SUPPORT       1         60       000-1056-000       BOLT - 12mm x 1.25 x 25mm       2         61       000-308       WASHER - SPRING - 12mm       2         62       000-331       WASHER - FLAT - 12mm       2         63       000-106       STUD - 10mm x 1.5/1.25 x 27mm (42mm O/L) - S/5       1         64       000-303       WASHER - FLAT - 10mm       1         65       000-209       NUT - SELFLOC - 10mm x 1.25       1         LUBRICATION SUB ASSEMBLY - STHZJ7OW SS         71       000-961       ADAPTOR - OIL SUPPLY - 1/4" ID x 1060mm       1	51	000-302	WASHER - FLAT - 8mm	2	
54       000-204       NUT - NYLOC - 6mm x 1.0       2         55       000-066-765       ACTUATOR/ROD ASSEMBLY       1         56       000-963       CLIP - 'C' - 4.5mm       1         57       000-808-070       HOSE - 1/4" ID x 550mm       1         58       000-917       CLAMP - HOSE - SPRING 1/4"       2         59       330-011-999       BRACKET - TURBO SUPPORT       1         60       000-1056-000       BOLT - 12mm x 1.25 x 25mm       2         61       000-308       WASHER - SPRING - 12mm       2         62       000-331       WASHER - FLAT - 12mm       2         63       000-106       STUD - 10mm x 1.5/1.25 x 27mm (42mm O/L) - S/S       1         64       000-303       WASHER - FLAT - 10mm       1         65       000-209       NUT - SELFLOC - 10mm x 1.25       1         LUBRICATION SUB ASSEMBLY - STHZJ7OW SS         71       000-961       ADAPTOR - OIL SUPPLY - 1/4" ID x 1060mm       1         72       375-962-000       HOSE ASSEMBLY - OIL SUPPLY - 1/4" ID x 1060mm       1	52	000-970-765	SPACER - ACTUATOR MOUNTING	2	
55       000-066-765       ACTUATOR/ROD ASSEMBLY       1         56       000-963       CLIP - 'C' - 4.5mm       1         57       000-808-070       HOSE - 1/4" ID x 550mm       1         58       000-917       CLAMP - HOSE - SPRING 1/4"       2         59       330-011-999       BRACKET - TURBO SUPPORT       1         60       000-1056-000       BOLT - 12mm x 1.25 x 25mm       2         61       000-308       WASHER - SPRING - 12mm       2         62       000-331       WASHER - FLAT - 12mm       2         63       000-106       STUD - 10mm x 1.5/1.25 x 27mm (42mm O/L) - 5/S       1         64       000-303       WASHER - FLAT - 10mm       1         65       000-209       NUT - SELFLOC - 10mm x 1.25       1         LUBRICATION SUB ASSEMBLY - STH2J7OW SS         71       000-961       ADAPTOR - OIL SUPPLY       1         72       375-962-000       HOSE ASSEMBLY - OIL SUPPLY - 1/4" ID x 1060mm       1	53	000-301	WASHER - FLAT - 6mm	2	
56       000-963       CLIP - 'C' - 4.5mm       1         57       000-808-070       HOSE - 1/4" ID x 550mm       1         58       000-917       CLAMP - HOSE - SPRING 1/4"       2         59       330-011-999       BRACKET - TURBO SUPPORT       1         60       000-1056-000       BOLT - 12mm x 1.25 x 25mm       2         61       000-308       WASHER - SPRING - 12mm       2         62       000-331       WASHER - FLAT - 12mm       2         63       000-106       STUD - 10mm x 1.5/1.25 x 27mm (42mm O/L) - S/S       1         64       000-303       WASHER - FLAT - 10mm       1         65       000-209       NUT - SELFLOC - 10mm x 1.25       1         LUBRICATION SUB ASSEMBLY - STHZJ7OW SS         71       000-961       ADAPTOR - OIL SUPPLY       1         72       375-962-000       HOSE ASSEMBLY - OIL SUPPLY - 1/4" ID x 1060mm       1	54	000-204	NUT - NYLOC - 6mm x 1.0	2	
57       000-808-070       HOSE - 1/4" ID x 550mm       1         58       000-917       CLAMP - HOSE - SPRING 1/4"       2         59       330-011-999       BRACKET - TURBO SUPPORT       1         60       000-1056-000       BOLT - 12mm x 1.25 x 25mm       2         61       000-308       WASHER - SPRING - 12mm       2         62       000-331       WASHER - FLAT - 12mm       2         63       000-106       STUD - 10mm x 1.5/1.25 x 27mm (42mm O/L) - S/S       1         64       000-303       WASHER - FLAT - 10mm       1         65       000-209       NUT - SELFLOC - 10mm x 1.25       1         LUBRICATION SUB ASSEMBLY - STHZJ7OW S5         71       000-961       ADAPTOR - OIL SUPPLY       1         72       375-962-000       HOSE ASSEMBLY - OIL SUPPLY - 1/4" ID x 1060mm       1	55	000-066-765	ACTUATOR/ROD ASSEMBLY	1	
58       000-917       CLAMP - HOSE - SPRING 1/4"       2         59       330-011-999       BRACKET - TURBO SUPPORT       1         60       000-1056-000       BOLT - 12mm x 1.25 x 25mm       2         61       000-308       WASHER - SPRING - 12mm       2         62       000-331       WASHER - FLAT - 12mm       2         63       000-106       STUD - 10mm x 1.5/1.25 x 27mm (42mm 0/L) - S/S       1         64       000-303       WASHER - FLAT - 10mm       1         65       000-209       NUT - SELFLOC - 10mm x 1.25       1         LUBRICATION SUB ASSEMBLY - STHZJ7OW S5         71       000-961       ADAPTOR - OIL SUPPLY       1         72       375-962-000       HOSE ASSEMBLY - OIL SUPPLY - 1/4" ID x 1060mm       1	56	000-963	CLIP - 'C' - 4.5mm	1	
59       330-011-999       BRACKET - TURBO SUPPORT       1         60       000-1056-000       BOLT - 12mm x 1.25 x 25mm       2         61       000-308       WASHER - SPRING - 12mm       2         62       000-331       WASHER - FLAT - 12mm       2         63       000-106       STUD - 10mm x 1.5/1.25 x 27mm (42mm O/L) - S/S       1         64       000-303       WASHER - FLAT - 10mm       1         65       000-209       NUT - SELFLOC - 10mm x 1.25       1         LUBRICATION SUB ASSEMBLY - STHZJ7OW S5         71       000-961       ADAPTOR - OIL SUPPLY       1         72       375-962-000       HOSE ASSEMBLY - OIL SUPPLY - 1/4" ID x 1060mm       1	57	000-808-070	HOSE - 1/4" ID x 550mm	1	
60       000-1056-000       BOLT - 12mm x 1.25 x 25mm       2         61       000-308       WASHER - SPRING - 12mm       2         62       000-331       WASHER - FLAT - 12mm       2         63       000-106       STUD - 10mm x 1.5/1.25 x 27mm (42mm O/L) - S/S       1         64       000-303       WASHER - FLAT - 10mm       1         65       000-209       NUT - SELFLOC - 10mm x 1.25       1         LUBRICATION SUB ASSEMBLY - STHZI7OW SS         71       000-961       ADAPTOR - OIL SUPPLY       1         72       375-962-000       HOSE ASSEMBLY - OIL SUPPLY - 1/4" ID x 1060mm       1	58	000-917	CLAMP - HOSE - SPRING 1/4"	2	
61 000-308 WASHER - SPRING - 12mm 2  62 000-331 WASHER - FLAT - 12mm 2  63 000-106 STUD - 10mm x 1.5/1.25 x 27mm (42mm O/L) - S/S 1  64 000-303 WASHER - FLAT - 10mm 1  65 000-209 NUT - SELFLOC - 10mm x 1.25 1  LUBRICATION SUB ASSEMBLY - STHZJ70W S5  71 000-961 ADAPTOR - OIL SUPPLY 1  72 375-962-000 HOSE ASSEMBLY - OIL SUPPLY - 1/4" ID x 1060mm 1	59	330-011-999	BRACKET - TURBO SUPPORT	1	
62 000-331 WASHER - FLAT - 12mm 2 63 000-106 STUD - 10mm x 1.5/1.25 x 27mm (42mm O/L) - S/S 1 64 000-303 WASHER - FLAT - 10mm 1 65 000-209 NUT - SELFLOC - 10mm x 1.25 1  LUBRICATION SUB ASSEMBLY - STHZJ70W S5 71 000-961 ADAPTOR - OIL SUPPLY 1 72 375-962-000 HOSE ASSEMBLY - OIL SUPPLY - 1/4" ID x 1060mm 1	60	000-1056-000	BOLT - 12mm x 1.25 x 25mm	2	
63 000-106 STUD - 10mm x 1.5/1.25 x 27mm (42mm O/L) - S/S 1  64 000-303 WASHER - FLAT - 10mm 1  65 000-209 NUT - SELFLOC - 10mm x 1.25 1  LUBRICATION SUB ASSEMBLY - STHZJ70W S5  71 000-961 ADAPTOR - OIL SUPPLY 1  72 375-962-000 HOSE ASSEMBLY - OIL SUPPLY - 1/4" ID x 1060mm 1	61	000-308	WASHER - SPRING - 12mm	2	
64 000-303 WASHER - FLAT - 10mm 1  65 000-209 NUT - SELFLOC - 10mm x 1.25 1  LUBRICATION SUB ASSEMBLY - STHZJ70W S5  71 000-961 ADAPTOR - OIL SUPPLY 1  72 375-962-000 HOSE ASSEMBLY - OIL SUPPLY - 1/4" ID x 1060mm 1	62	000-331	WASHER - FLAT - 12mm	2	
65 000-209 NUT - SELFLOC - 10mm x 1.25 1  LUBRICATION SUB ASSEMBLY - STHZJ70W S5  71 000-961 ADAPTOR - OIL SUPPLY 1  72 375-962-000 HOSE ASSEMBLY - OIL SUPPLY - 1/4" ID x 1060mm 1	63	000-106	STUD - 10mm x 1.5/1.25 x 27mm (42mm O/L) - S/S	1	
LUBRICATION SUB ASSEMBLY - STHZJ70W S5           71         000-961         ADAPTOR - OIL SUPPLY         1           72         375-962-000         HOSE ASSEMBLY - OIL SUPPLY - 1/4" ID x 1060mm         1	64	000-303	WASHER - FLAT - 10mm	1	
71 000-961 ADAPTOR - OIL SUPPLY 1  72 375-962-000 HOSE ASSEMBLY - OIL SUPPLY - 1/4" ID x 1060mm 1	65	000-209	NUT - SELFLOC - 10mm x 1.25	1	
72 375-962-000 HOSE ASSEMBLY - OIL SUPPLY - 1/4" ID x 1060mm 1	LUBRIG	LUBRICATION SUB ASSEMBLY - STHZJ70W S5			
	71	000-961	ADAPTOR - OIL SUPPLY	1	
73 330-034-000 BRACKET - OIL SUPPLY SUPPORT 1	72	375-962-000	HOSE ASSEMBLY - OIL SUPPLY - 1/4" ID x 1060mm	1	
	73	330-034-000	BRACKET - OIL SUPPLY SUPPORT	1	

74	000-011	BOLT - HEX - 8mm x 1.25 x 16mm	1
75	000-302	WASHER - FLAT - 8mm	1
76	000-305	WASHER - STAR - 8mm	1
77	000-943	CLAMP - HOSE SUPPORT - 8/12mm	3
78	000-021	BOLT - HEX - 5mm x 0.8 x 12mm	2
79	000-320	WASHER - FLAT - 5mm	4
80	000-982	CLAMP - HOSE SUPPORT - 12/15mm	1
81	000-023	BOLT - HEX - 5mm x 0.8 x 20mm	1
82	000-221	NUT - NYLOC - 5mm x 0.8	1
83	000-987-178	CABLE TIE - NYLON - 4.8mm x 178mm	2
84	000-601-500	ADAPTOR - ST 7/16" JIC x 10mm x 1.25	1
85	000-312	WASHER - COPPER - 10mm x 16mm	1
86	375-969-200	DRAIN - OIL - UPPER	1
87	000-449	GASKET - OIL DRAIN	1
88	000-002-400	BOLT - HEX - 6.0mm x 16mm - SELFLOC	2
89	330-836-000	HOSE - OIL DRAIN (TAPPED) - MOULDED - 5/8"	1
90	000-911-023	CLAMP - SPRING - NO. 23	2
91	000-514	DRAIN - OIL - LOWER	1

#### **Special Tools:**

- Metric and Imperial Wrench Sets
- 3/8" BSPF Thread Tap
- M18x1.5 Thread Tap
- Right Angle Drill (Engine Block Oil Drain Option)
- Reduced Shank Drills (15mm Diameter) (Engine Block Oil Drain)

- Pop-rivet gun
- 8mm & 10mm Stud Installers
- Fast Setting Adhesive (5mn Araldite)
- High Temperature RTV Silicon Sealant (Permatex Ultra Copper or equivalent)
- Hydraulic Sealant (Loctite 569 or equivalent)
- 7mm Flexible Shaft Hose Clamp Driver

1 Disconnect the negative (-ve) battery terminal.

Remove the following in accordance with the factory service manual:

- Air Cleaner Lid
- Intake hose and resonator assembly
- PCV breather hose
- Intake Duct
- Brake Booster Vacuum Hose

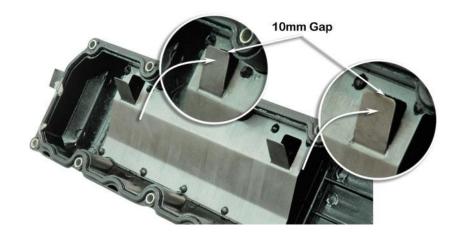


2

Remove the rocker cover.

Push on the PCV baffle tabs to close the gap to 10mm as shown.

Reinstall the rocker cover.



3

Remove the exhaust engine pipe.

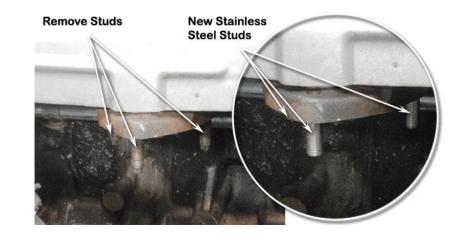
Remove and discard the engine pipe support bracket.

**NOTE:** The nuts retaining the engine pipe to the exhaust manifold may be seized and require attention (penetrating lubricant or heat) to avoid breaking the exhaust manifold outlet flange studs.



Remove the three studs shown from the exhaust manifold

Install three new M10x1.25x23.5mm stainless steel studs (Item 1).

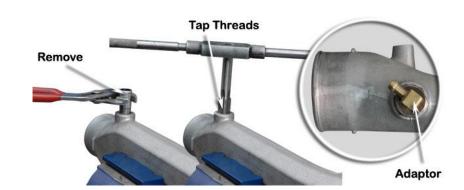


**NOTE:** If fitting a Safari front or top mount intercooler proceed to step 6.

Remove the PCV tube from the intake duct

Tap the hole square to the boss in the duct with a M18x1.5 thread tap.

Install the 18mm plug (Item 34), copper washer (Item 35). Apply hydraulic thread sealer to the 90 degree adaptor (Item 36) and install into the plug (Item 34). Note orientation.

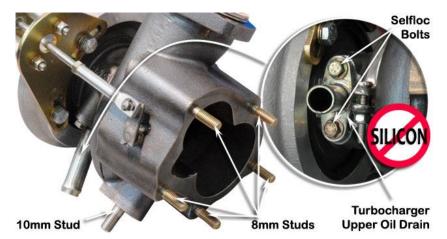


Install the five 8mm studs (Item 8) to the turbine outlet flange.

Install the 10mm stainless steel stud (Item 63) to the turbine housing.

Install the turbocharger upper oil drain (Item 86) and gasket (Item 87). Retain with two 6mm selfloc bolts (Item 88).

**NOTE:** <u>DO NOT</u> use any silicon sealing compound on the oil drain gasket surfaces.

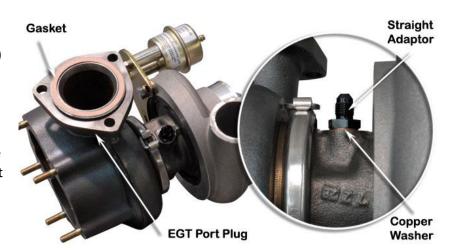


7

Install the 7/16" straight adaptor (Item 84) and 10mm copper washer (Item 85).

Install the EGT port plug (Item 43) (If not already factory fitted).

Apply a small amount of high temperature sealant to both faces of the exhaust gasket (Item 42). Install the exhaust gasket (42) to the turbine housing inlet flange.



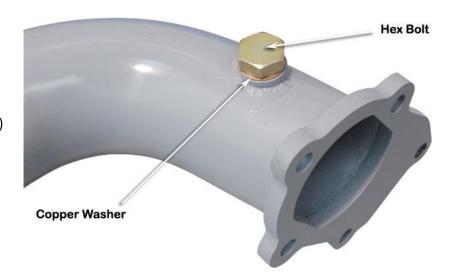
Retain with washers (Item 3) and 10mm selfloc nuts (Item 2).





9

Install the 18mm copper washer (Item 12) and 18mm hex plug (Item 11) to the turbine outlet pipe (Item 4).



10

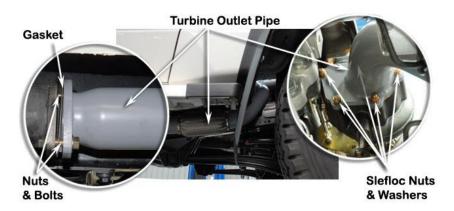
Apply a bead of High Temperature RTV Silicon Sealant to the turbo outlet flange as shown.





Install the turbine outlet pipe to the turbocharger outlet and retain with 8mm flat washers (Item 10) and 8mm selfloc nuts (Item 9).

Install the 2-bolt flange gasket (Item 5) between the exhaust pipe and the turbine outlet pipe (Item 4) and retain with 10mm x 35mm bolts (Item 6), 10mm flat washers (Item 3) and 10mm flanged nuts (Item 7).



## **Turbocharger Oil Drain - Drain into Engine Block**

12 NOTE: Apply a generous amount of grease to each drill bit to prevent swarf from entering the engine.

Drill a pilot hole squarely into the engine block assembly in the position shown.

Use progressively larger diameter drills to drill to 15mm.

Thread the hole with a 3/8" BSPF thread tap.

Apply hydraulic sealant to the threads on the lower oil drain (Item 92) and install the lower oil drain (Item 92) into the engine block.



13

Install No.23 spring hose clamps (Item 91) to each end of the oil drain hose and install the oil drain hose between the turbocharger upper drain (Item 86) and the lower drain (Item 91).

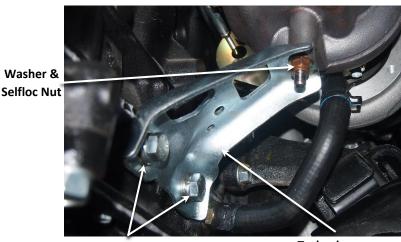


Oil Drain Hose

Install the turbocharger support bracket (Item 59) to the engine block and retain loosely with 12mm x 25mm bolts (Item 60), 12mm spring washer (Item 61) and 12mm flat washer (Item 62). **NOTE Do not tighten bolts yet.** 

Retain the turbocharger support bracket to the turbocharger with a 10mm flat washer (Item 64) and 10mm selfloc nut (Item 65) to the 10mm stud (Item 63) previously installed on the turbocharger.

Align the turbocharger support bracket (Item 59) and tighten all mounting hardware evenly.



**Washers & Bolts** 

Turbocharger Support Bracket

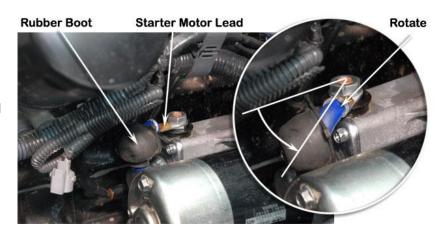
15

14

# WARNING: Ensure that the battery is disconnected.

Pull the rubber boot back from starter motor lead shown and loosen the terminal nut.

Rotate the lead 45 degrees away from the engine block and re-tighten the terminal nut. Refit the rubber boot.



16 Unplug the oil pressure sender wire from the oil pressure sender unit and remove the oil pressure sender unit from the engine block.

Apply hydraulic sealant to the threads of the oil supply adaptor (Item 71) and install the adaptor into the engine block. Note orientation of hole shown.

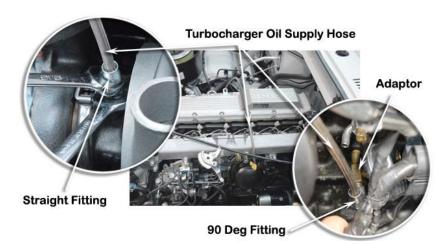
Apply hydraulic sealant to the threads of the oil pressure sender unit and install the oil pressure sender unit to the adaptor (Item 71).

Reconnect the oil pressure sender wire to the oil pressure sender unit.



Install the 90 degree fitting end of turbocharger oil supply hose (Item 72) to the oil sender unit adaptor (Item 71).

Install the straight fitting end of the turbocharger oil supply hose (Item 72) to the turbocharger oil supply adaptor (Item 84) installed previously. Note: Use two wrenches - one wrench to stop the hose from turning whilst tightening the straight fitting with the other wrench.



18

**NOTE:** If fitting a Safari front or top mount intercooler proceed to step 20.

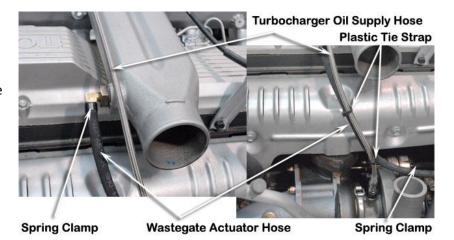
Install the intake duct back onto the engine.



19 Install a spring hose clamp (Item 58) to each end of the 1/4" wastegate actuator hose (Item 57) and install the hose to the wastegate actuator port (Item 55).

Install the other end of the 1/4" wastegate actuator hose (Item 57) to the 90 degree adaptor (Item 36) installed previously.

Support the 1/4" wastegate actuator hose along the turbocharger oil supply hose (Item 72) with the two plastic tie straps (Item 83).

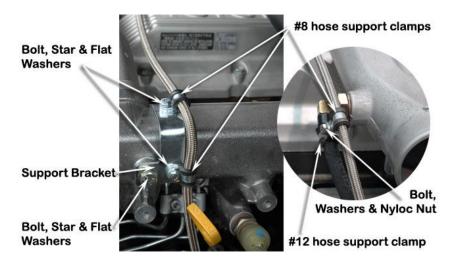


Install the two #8 hose support clamps (Item 77) to the oil supply hose (Item 72) and fasten to the oil supply hose support bracket (Item 73) with two 5x12mm hex bolts (Item 78) and 5mm washers (Item 79).

**NOTE:** If fitting a Safari front or top mount intercooler skip the steps below.

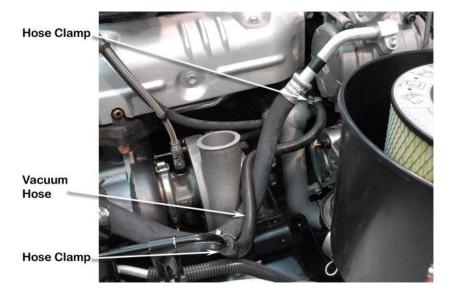
Install a #8 hose support clamp (Item 77) to the oil supply hose (Item 72) and fasten the two clamps together with a 5x20mm bolt (Item 81), two 5mm flat washers (Item 79) and a 5mm nyloc nut (Item 82).

Install one #12 hose support clamp (Item 80) to the 1/4" wastegate actuator hose (Item 57) next to the 90 degree adaptor (Item 36) installed previously.



21

Install a 10/16mm hose clamp (Item 22) to each end of the moulded vacuum hose (Item 21) and install as shown.



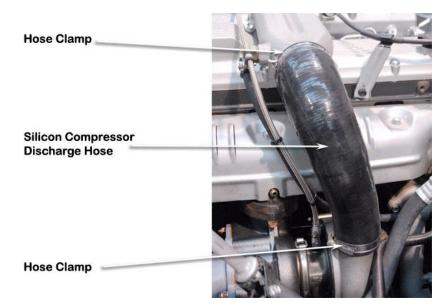
**NOTE:** If fitting a Safari front or top mount intercooler proceed to step 23.

22

Install a 60/80mm hose clamp (Item 33) to the large diameter end of the silicon compressor discharge hose (Item 31) and install a 50/70mm hose clamp (Item 32) to the smaller end.

Install the silicon compressor discharge hose (Item 31) between the turbocharger compressor outlet and intake duct inlet.

Ensure that the hose clamps are perfectly square on the silicon hose before tightening.

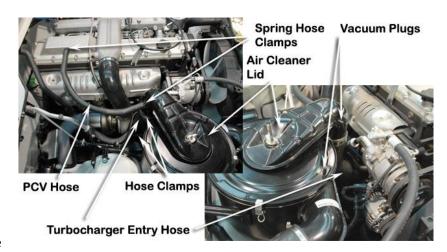


Install a 70/90mm hose clamp (Item 18) to each end of the turbocharger entry hose (Item 15) and install the hose to the turbocharger compressor entry.

Install the air cleaner lid (Item 16) to the air cleaner and the turbocharger entry hose (Item 15). Tighten the turbocharger entry hose clamps (Item 18).

Install the vacuum plugs (Item 17) to the air cleaner lid ports.

Install a No.23 Spring hose clamp (Item 20) to each end of the PCV breather hose (Item 19) and install the hose between the PCV port on the rocker cover and the PCV port on the air cleaner lid (Item 16).



#### 24 Completion of Installation:

- Check All Fluid levels.
- Check for Exhaust Leaks.
- Check for Fluid Leaks.
- Ensure all Hoses have adequate clearance to surrounding area. (trim hoses if required)