TRANSFORM requests a linear transformation of the dependent variables and covariates.

```
TRANSFORM (variable list1/variable list2/...) =

    [ORTHONORM]  { DEVIATIONS (refcat)      }
                 { DIFFERENCE               }
    [BASIS]      { HELMERT                  }
    [CONTRAST]   { SIMPLE (refcat)    ,     }   /
                 { REPEATED                 }
                 { POLYNOMIAL [(metric)]    }
                 { SPECIAL (matrix)         }
                 { WSDESIGN <effect list>   }
```

WSDESIGN specifies the model for the within-subjects factors and RENAME can be used to rename the transformed variables.

```
WSDESIGN = < effect list > /

RENAME = newname1, newname2,.../
```

The second category contains subcommands PRINT, PLOT, and PUNCH, which control the amount of optional output produced by MANOVA.

```
PRINT    =   CELLINFO( [MEANS] [SSCP] [COV] [COR] )
 or
NOPRINT      HOMOGENEITY( [BARTLETT] [COCHRAN] [BOXM] )

             DESIGN( [ONEWAY] [OVERALL] [BIAS] [DECOMP]
                     [SOLUTION]                        )

             PRINCOMPS( [COR] [COV] [MINEIGEN(eigcut)]
                        [NCOMP(n)] [ROTATE(rottyp)] )

             ERROR( [SSCP] [COV] [COR] [STDV] )

             SIGNIF( [HYPOTH] [MULTIV] [EIGEN]
                     [DIMENR] [UNIV] [STEPDOWN]
                     [AVERF] [BRIEF] [SINGLEDF] )

             DISCRIM( [RAW] [STAN] [ESTIM] [COR]
                      [ROTATE(rottyp)] [ALPHA(alpha)] )

             PARAMETERS( [ESTIM] [COR] [ORTHO] [NEGSUM] )

             OMEANS[ ( VARIABLES(var list)
                       TABLES( table requests ) ) ]

             PMEANS[ ( VARIABLES(var list)
                       TABLES( table requests )
                       ERROR( errorn ) ) ]

             POBS [ ERROR( errorn ) ]

             FORMAT( [WIDE]     )    /
                     [NARROW]

PLOT     =   [CELLPLOTS] [NORMAL] [BOXPLOTS]
             [STEMLEAF] [ZCORR] [PMEANS]
             [POBS]
             [ SIZE( nhor , nvert ) ]          /

PUNCH    =   CELLINFO( [MEAN] [SSCP] [COR] [COV] [STDV] )

             ERROR( [SSCP] [COR] [COV] [STDV] )

             PMEANS [ ( ERROR( errorn ) ) ]

             POBS [ ( ERROR( errorn ) ) ]                /
```

The last category consists of the subcommands that indicate the computational options and model specifications. METHOD provides several options for parameter estimation.

```
METHOD = MODELTYPE(  [MEANS]        )
                     [OBSERVATIONS]

                     [CHOLESKY]
         ESTIMATION( [QR]         [LASTRES]    [CONSTANT]  )
                     [BALANCED]   [NOLASTRES]  [NOCONST]
                     [NOBALANCED]

         SSTYPE( [SEQUENTIAL] )          /
                 [UNIQUE]
```

ANALYSIS subsets and/or reorders the variables.

```
ANALYSIS = <dep var list> WITH <covar list>/
                          - or -
ANALYSIS[(CONDITIONAL)  ]     =    (<dep list 1> WITH <covar list 1>/
       [(UNCONDITIONAL)]                <dep list 2> WITH <covar list 2>/ ...)
                        WITH <covar list> /
```